SUP

JANUARY 2023

PROJECT ID: 1610-00-76/78/86

WITH: NA

COUNTY: ASHLAND

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 = 364



34

N

DESIGN DESIGNATION

A.A.D.T.	(2022)	=	3000
A.A.D.T.	(2042)	=	3600
D.H.V.		=	---
D.D.		=	60/40
T.		=	11.6%
DESIGN SPEED		=	55 MPH
ESALS		=	1,200,000

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STATE HIGHWAY REHABILITATION-MAINTENANCE PROJECT

MELLEN - ASHLAND

JEFFERSON AVE TO GOLF COURSE ROAD

STH 13

ASHLAND COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1610-00-76	WISC 2023169	1
1610-00-78	———	—
1610-00-86	WISC 2023170	1

ROADWAY CONSTRUCTION

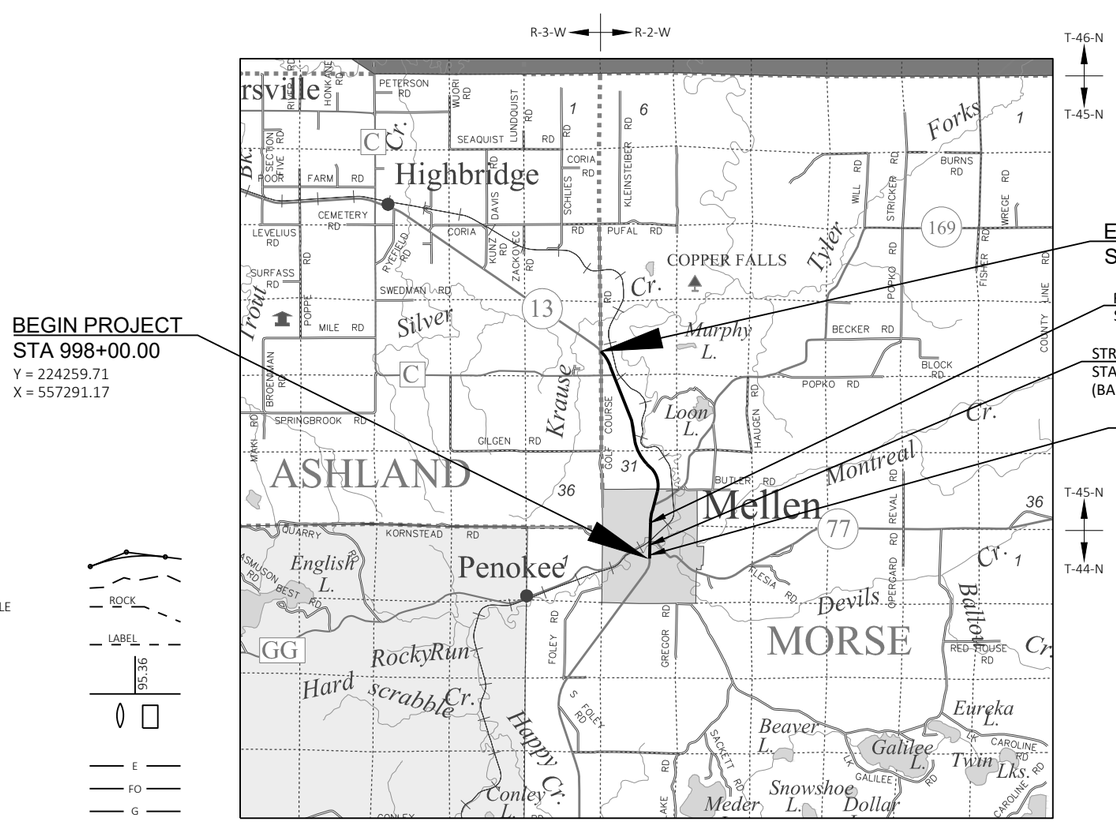
STATE PROJECT NUMBER
1610-00-76

SANITARY & WATER UTILITIES

STATE PROJECT NUMBER
1610-00-78

ROADWAY CONSTRUCTION: SAFETY

STATE PROJECT NUMBER
1610-00-86



BEGIN PROJECT
STA 998+00.00
Y = 224259.71
X = 557291.17

END PROJECT
STA 1154+30.00

RETAINING WALL R-02-0015
STA 1022+52 - STA 1025+46, RT

STRUCTURE B-02-0074
STA 1009+65 - STA 1010+35
(BAD RIVER STRUCTURE)

RETAINING WALL R-02-0013
(TO REMAIN)

LAYOUT

SCALE 0 2 MI

TOTAL NET LENGTH OF CENTERLINE = 2.960 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), ASHLAND COUNTY, NAD83 (YEAR), 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 (YEAR). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

ORIGINAL PLANS PREPARED BY

AYRES

WISCONSIN
JEFFREY A. ABRAMSON
32337
Eau Claire
PROFESSIONAL ENGINEER

DATE: 07/27/2022 (Professional Engineer Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	AYRES ASSOCIATES INC
Designer	AYRES ASSOCIATES INC
Project Manager	MATTHEW DICKENSON
Regional Examiner	TOU YANG
Regional Supervisor	JEFFERY OLSON

APPROVED FOR THE DEPARTMENT

DATE: 07/27/2022 Matthew J Dickenson (Signature)

E

GENERAL NOTES

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

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

NO TREES OR SHRUBS SHALL BE REMOVED WITHOUT APPROVAL BY THE ENGINEER.

EXCAVATION BELOW SUBGRADE (EBS) IS NOT USED TO BALANCE EARTHWORK. EBS IS MEASURED AND PAID FOR AS EXCAVATION COMMON, EXACT LOCATIONS OF EBS WILL BE DETERMINED BY THE ENGINEER.

SHRINKAGE OF EARTHWORK IS VARIABLE. AN AVERAGE FACTOR FOR EXCAVATION COMMON IS 25%.

THE EROSION CONTROL ITEMS SHOWN ON THE PLANS ARE AT SUGGESTED LOCATIONS. THE ENGINEER MAY MODIFY LOCATIONS AS NEEDED. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.

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

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

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

TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

DETAILS OF CONSTRUCTION NOT SHOWN SHALL BE IN ACCORDANCE WITH THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS.

A SAWED JOINT WILL BE REQUIRED WHERE NEW PAVEMENT IS TO MEET AN EXISTING PAVED SURFACE.

INTERSECTION RADII TO MATCH EXISTING. RADII SHOWN ON PLAN IS FOR INFORMATION ONLY. ALL RADII ARE MEASURED TO EDGE OF PAVEMENT UNLESS OTHERWISE SHOWN OR NOTED ON THE PLAN.

CURB AND GUTTER ELEVATIONS AND RADIUS POINTS ARE ALONG THE FLAG LINE UNLESS OTHERWISE NOTED.

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

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD.

THE CONTRACTOR IS TO WORK WITH UTMOST CARE AND PROTECT ALL SURVEY MARKERS. SURVEY MARKERS SHALL NOT BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

PROPOSED ROADWAY IMPROVEMENTS SHALL MATCH EXISTING SUPERELEVATIONS AND ROADWAY CROSS SLOPES IN MILLED AREAS.

UTILITY CONTACTS

ASTREA - COMMUNICATION
105 KENT ST
IRON MOUNTAIN, MI 49801
ATTN: ANDY HEIGL
OFFICE: 906-221-7536
ANDY.HEIGL@ASTREACONNECT.COM

BAYFIELD ELECTRIC COOPERATIVE INC - ELECTRICITY
68460 DISTRICT AVE
IRON RIVER, WI 54847
ATTN: KEN KOOSMANN
OFFICE: 715-372-4287
CELL: 715-681-0000
KKOOSMANN@BAYFIELDELECTRIC.COM

CITY OF MELLEN UTILITY - WATER
3433 OAKWOOD HILLS PARKWAY
EAU CLAIRE, WI 54701
ATTN: MIKE STOFFEL
OFFICE: 715-831-7640
MOBILE: 715-563-1786
STOFFELM@AYRESASSOCIATES.COM

CITY OF MELLEN UTILITY - SEWER
3433 OAKWOOD HILLS PARKWAY
EAU CLAIRE, WI 54701
ATTN: MIKE STOFFEL
OFFICE: 715-831-7640
MOBILE: 715-563-1786
STOFFELM@AYRESASSOCIATES.COM

CENTURYLINK - COMMUNICATION
135 N 21ST ST
SUPERIOR, WI 54880
ATTN: RUSSEL VANCE
OFFICE: 715-919-8003
RUSSEL.VANCE@LUMEN.COM

XCEL ENERGY - GAS/PETROLEUM
2400 FARM ROAD
ASHLAND, WI 54806
ATTN: MATTHEW ROONI
OFFICE: 715-682-6927
MOBILE: 715-209-0229
MATTHEW.W.ROONI@XCELENERGY.COM

XCEL ENERGY - ELECTRICITY
2400 FARM ROAD
ASHLAND, WI 54806
ATTN:MATTHEW ROONI
OFFICE: 715-682-6927
MOBILE: 715-209-0229
MATTHEW.W.ROONI@XCELENERGY.COM

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

ORDER OF SECTION 2 SHEETS

Typical Sections
Construction Details
Intersections
Erosion Control & Drainage
Storm Sewer and Utilities
Signing & Pavement Marking
Lighting
Traffic Control and Construction Staging

DNR CONTACT

DNR NORTHERN REGION HQ
810 WEST MAPLE STREET
SPOONER, WI 54801
ATTN: SHAWN HASELEU
715-635-4228
shawn.haseleu@wisconsin.gov

DESIGN CONTACT

AYRES ASSOCIATES INC
3433 OAKWOOD HILLS PARKWAY
EAU CLAIRE, WI 54701
ATTN: JEFF ABRAMSON, PE
715-834-3161
abramsonj@ayresassociates.com

WATER, SANITARY & LIGHTING DESIGN CONTACT

AYRES ASSOCIATES INC
3433 OAKWOOD HILLS PARKWAY
EAU CLAIRE, WI 54701
ATTN: MICHAEL STOFFEL, PE
715-834-3161
stoffelm@ayresassociates.com

WISDOT DESIGN CONTACT

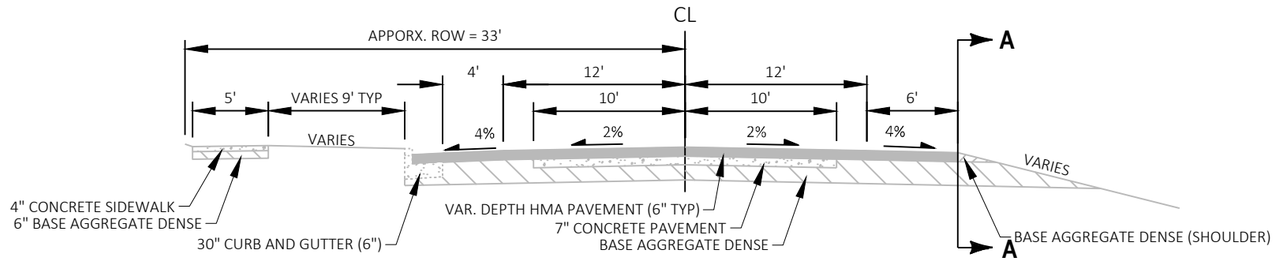
DEPARTMENT OF TRANSPORTATION
1701 NORTH 4TH STREET
SUPERIOR, WI 54880
ATTN: MATTHEW DICKENSON, PE
715-395-3022
matthew.dickenson@dot.wi.gov

RAILROAD CONTACT

FOX VALLEY & LAKE SUPERIOR, LLC
ATTN: ROGER SCHAALMA, DIVISIONAL ENGINEER
608-620-2044
rschaalma@watco.com

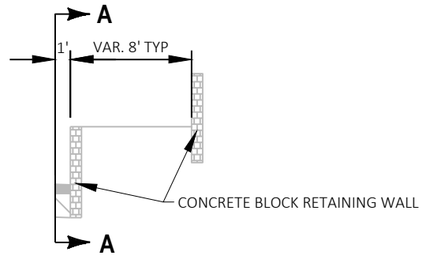
RAILROAD COORDINATOR

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



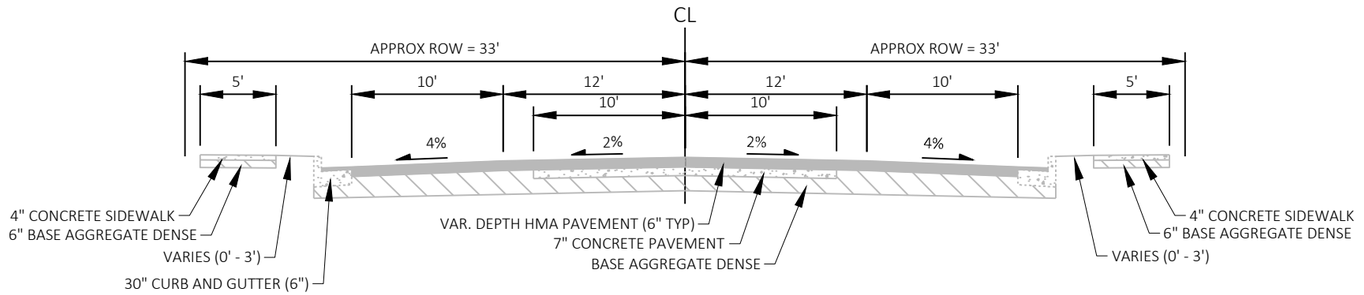
EXISTING TYPICAL SECTION - STH 13

JEFFERSON AVE - WASHINGTON AVE
STA 998+00 - STA 1002+25



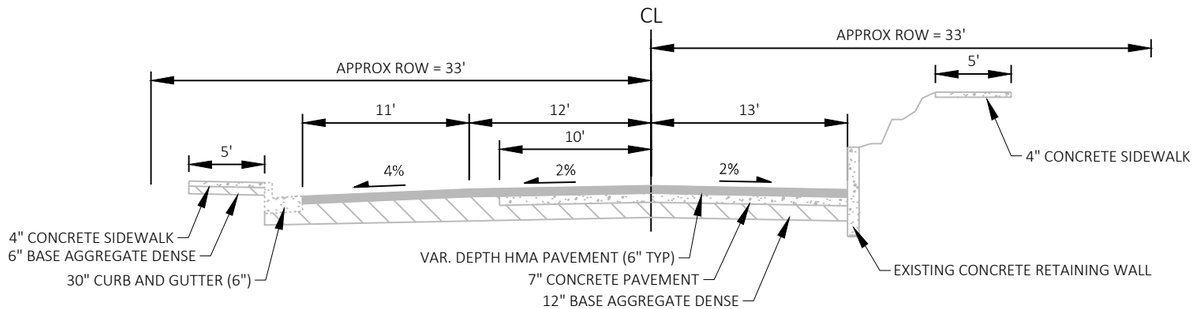
SECTION A-A

STA 1000+75.00 - STA 1002+05.00



EXISTING TYPICAL SECTION - STH 13

WASHINGTON AVE - TYLER AVE
STA 1002+25 - STA 1022+25



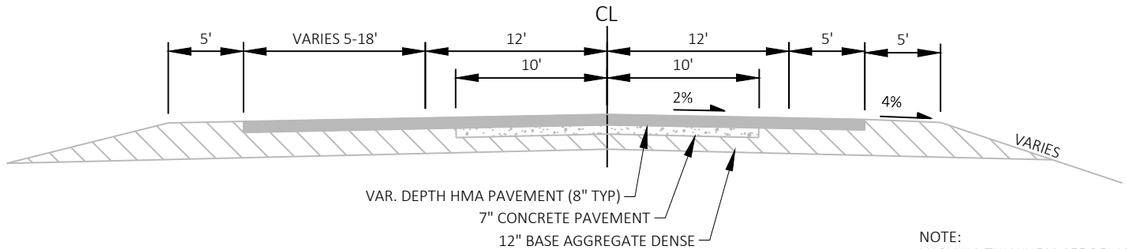
EXISTING TYPICAL SECTION - STH 13

TYLER AVE - LAYMAN DR
STA 1022+25 - STA 1025+75

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	TYPICAL SECTIONS	SHEET 3	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 020301-ts
PLOT DATE : 7/25/2022 4:07 PM
PLOT BY : RESHESKE, CARRIE
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

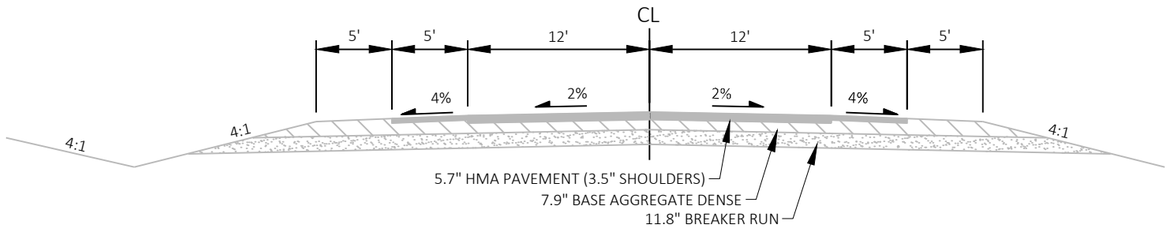
2



NOTE:
VARYING THICKNESS SEE REMOVAL PLAN FOR CONCRETE AREAS

EXISTING TYPICAL SECTION - STH 13

LAYMAN DR - STH 169
STA 1025+75 - STA 1038+75

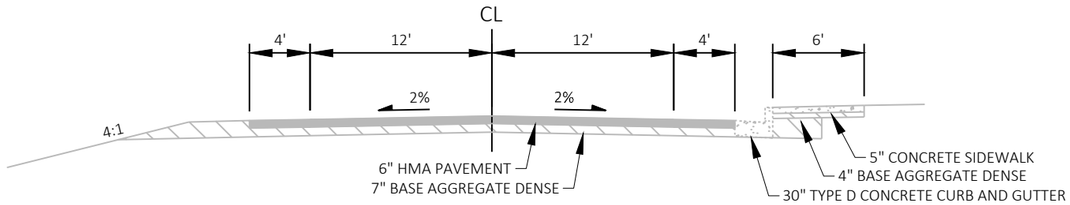


HALF SECTION IN CUT

EXISTING TYPICAL SECTION - STH 13

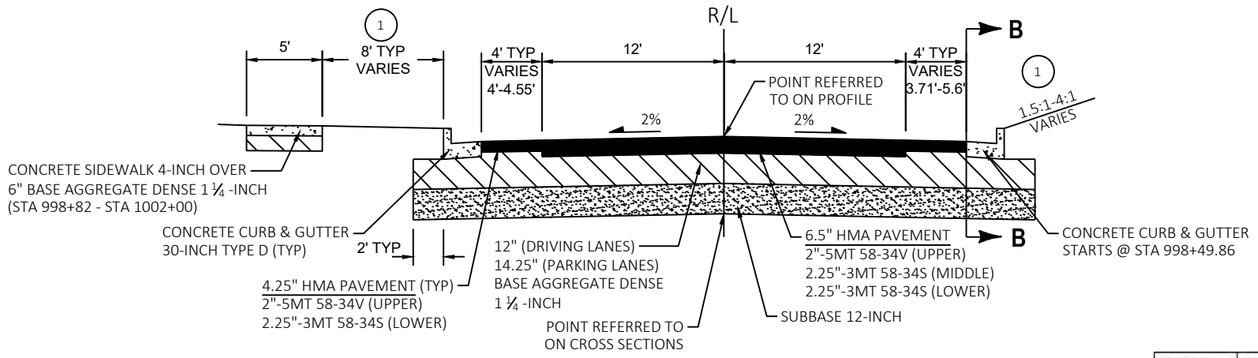
STH 169 - GOLF COURSE RD
STA 1038+75 - STA 1154+30

HALF SECTION IN FILL



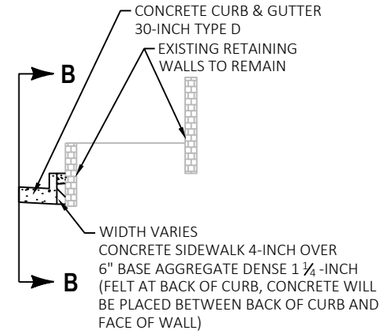
EXISTING TYPICAL SECTION - STH 77

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	TYPICAL SECTIONS	SHEET 4	E



FINISHED TYPICAL SECTION

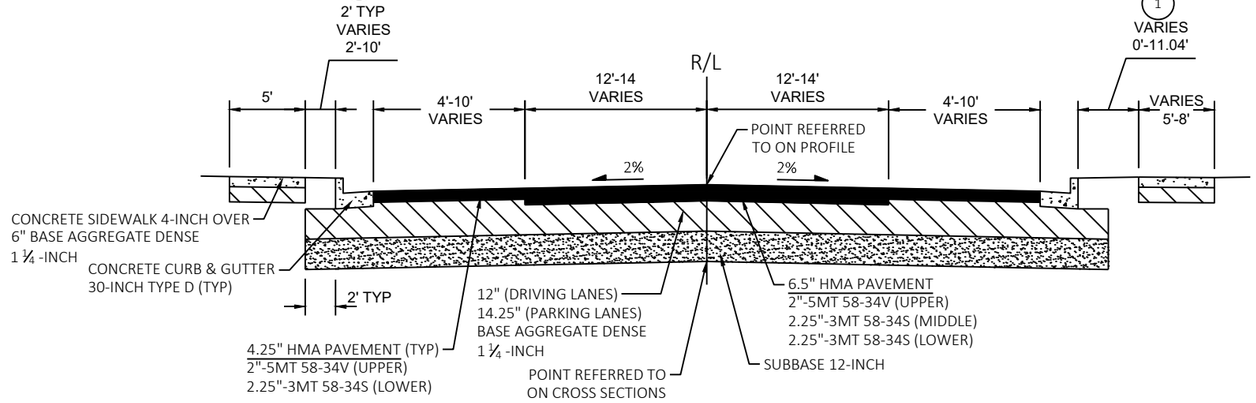
STA 998+00.00 - STA 1002+00.00



SECTION B-B

STA 1000+75.00 - STA 1002+00.00

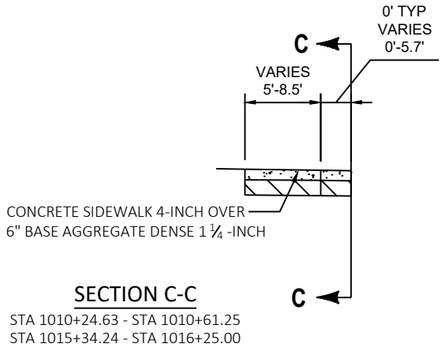
Station	Description	Left Outside Shoulder	Left Lane	Right Lane	Right Shoulder
998+00	Full Super	-4.7%	-4.7%	4.7%	4.7%
998+51.76	End Full Super	-4.7%	-4.7%	4.7%	4.7%
998+89.76	Reverse Crown	-3.0%	-3.0%	3.0%	3.0%
999+55.76	Level Crown	-3.0%	-3.0%	0.0%	0.0%
999+77.76	Begin Normal Crown	-3.0%	-3.0%	-1.0%	-1.0%



FINISHED TYPICAL SECTION

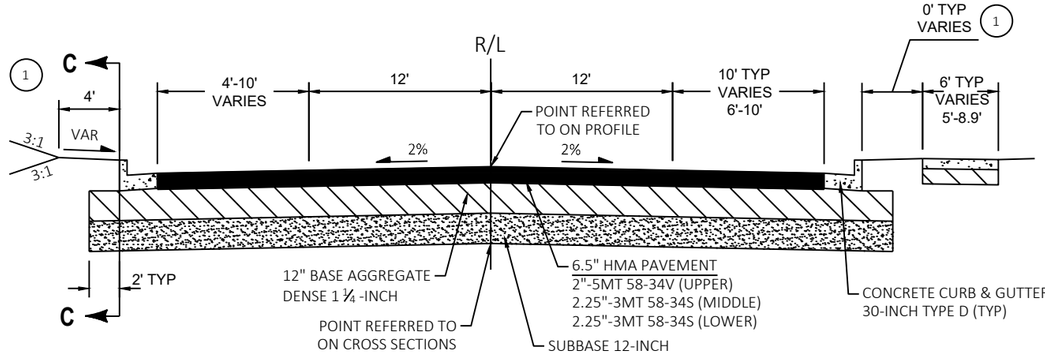
STA 1002+00.00 - STA 1009+74.63

(1) TOPSOIL, FERTILIZER SEED NO.40 & EROSION MAT URBAN CL.I TYPE A



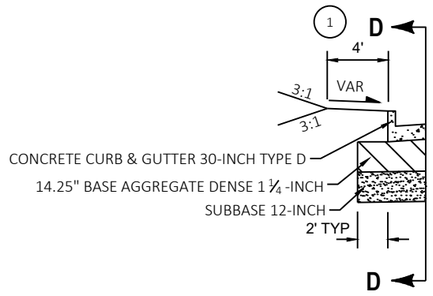
SECTION C-C

STA 1010+24.63 - STA 1010+61.25
STA 1015+34.24 - STA 1016+25.00



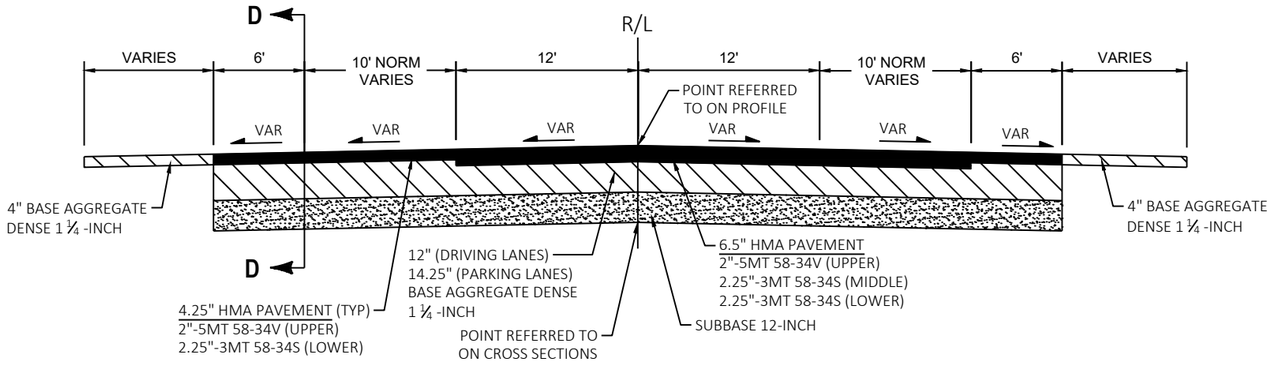
FINISHED TYPICAL SECTION

STA 1010+24.63 - STA 1012+22.19
STA 1013+36.63 - STA 1016+25.00



SECTION D-D

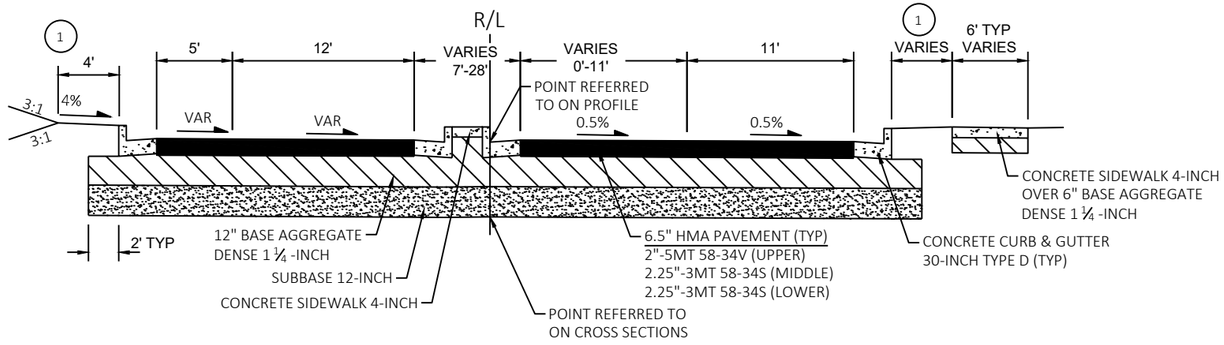
STA 1012+92.22 - STA 1013+36.63



1 TOPSOIL, FERTILIZER SEED NO.40 & EROSION MAT URBAN CL.I TYPE A

FINISHED TYPICAL SECTION

STA 1012+22.19 - STA 1013+36.63



FINISHED TYPICAL SECTION

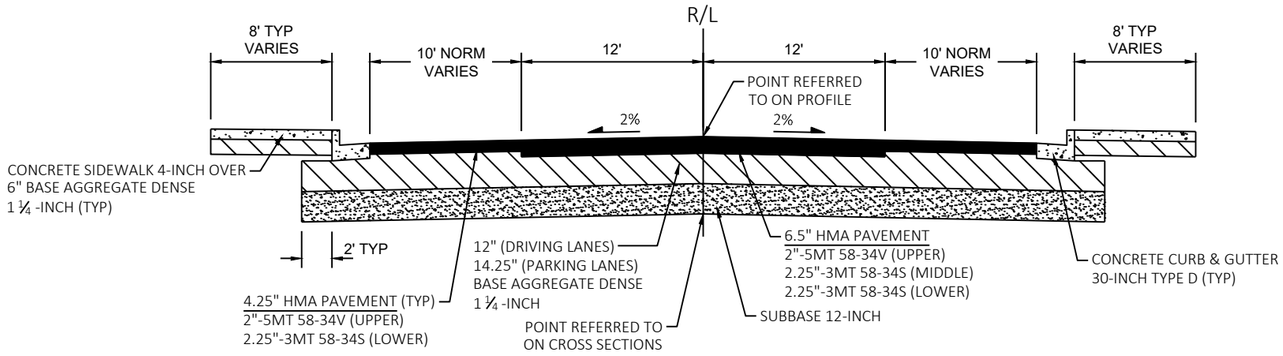
STA 1013+14.00 - STA 1014+18.00

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	TYPICAL SECTIONS	SHEET 6	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 020304-ts

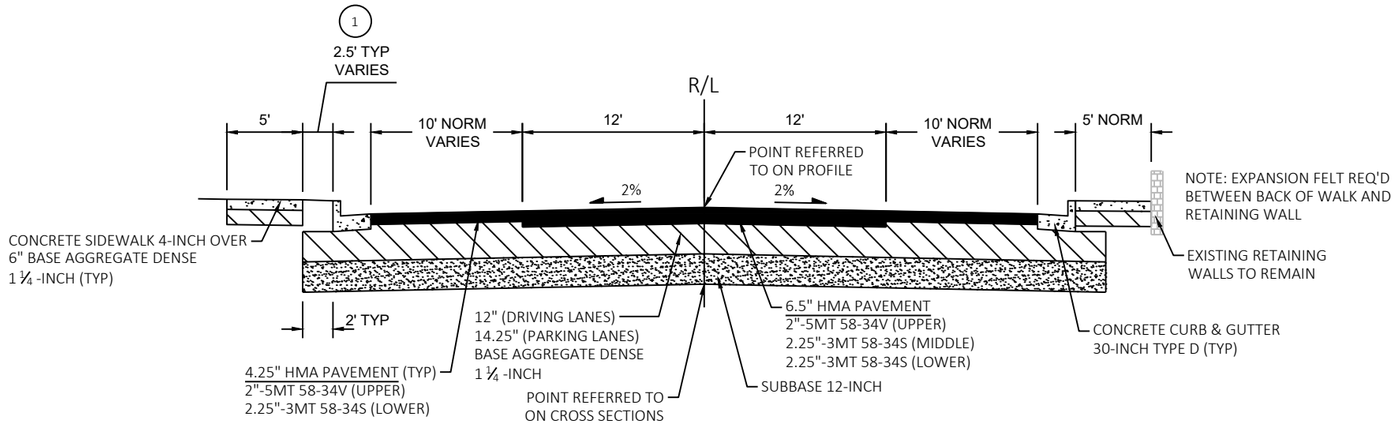
PLOT DATE : 7/25/2022 4:07 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42



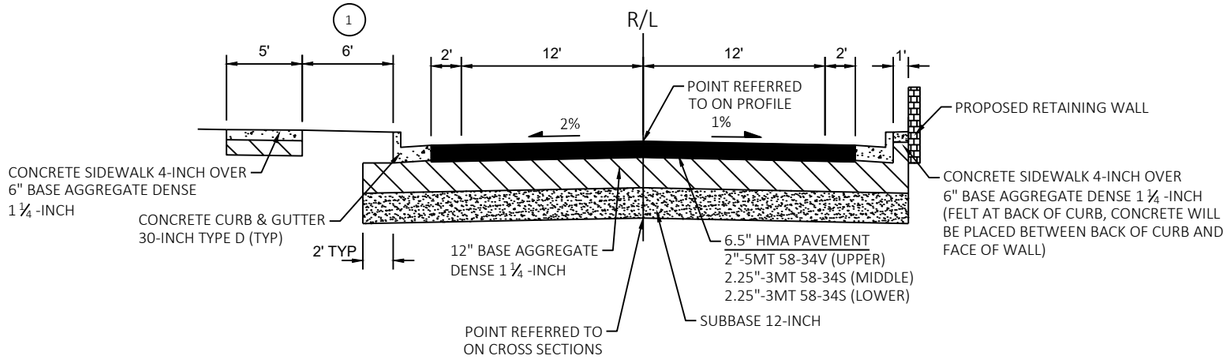
FINISHED TYPICAL SECTION

STA 1016+25.00 - STA 1019+75.00



FINISHED TYPICAL SECTION

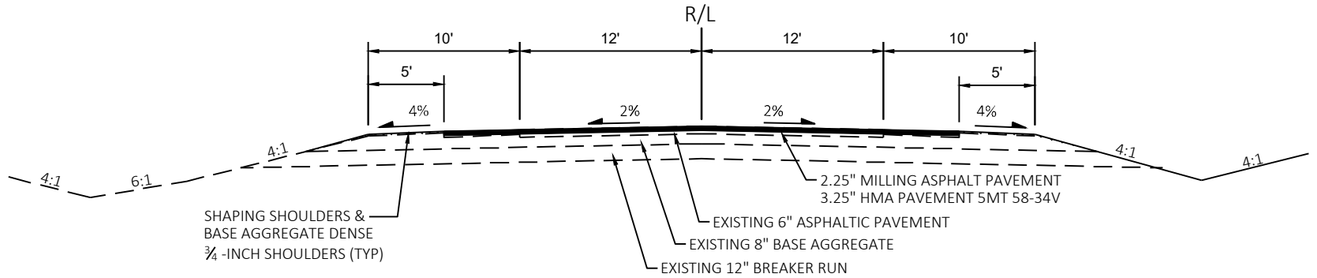
STA 1019+75.00 - STA 1022+25.00



FINISHED TYPICAL SECTION

STA 1022+25.00 - STA 1025+75.00

(1) TOPSOIL, FERTILIZER SEED NO.40 & EROSION MAT URBAN CL.I TYPE A

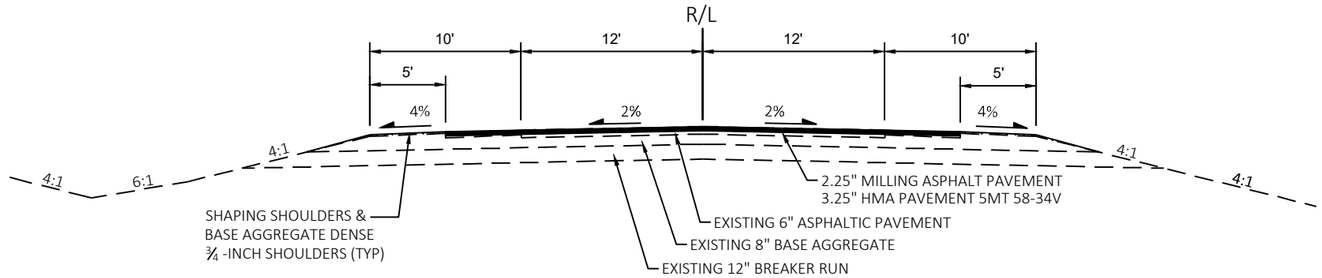


FINISHED TYPICAL SECTION

STA 1025+75.00 - STA 1031+86.00

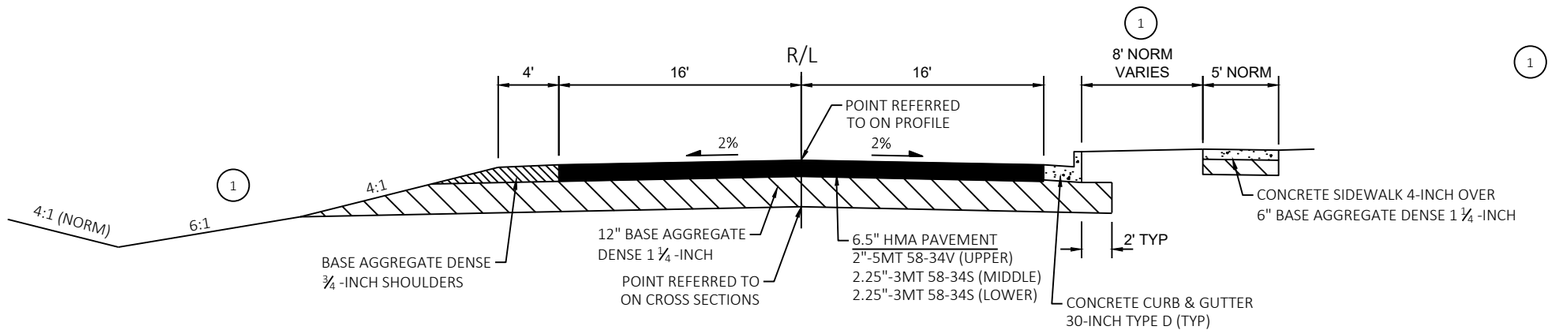
NOTE:
SEE MISCELLANEOUS QUANTITIES FOR LOCATIONS OF SHOULDER AND CENTERLINE RUMBLE STRIPS.

SEE SDD'S "2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING" AND "2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING" FOR ADDITIONAL INFORMATION.



FINISHED TYPICAL SECTION

STA 1031+86.00 - STA 1154+30.00



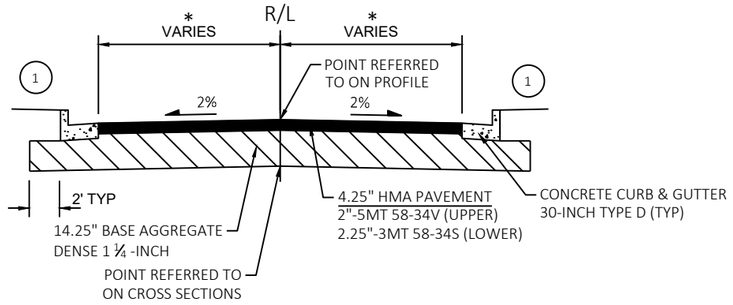
1 TOPSOIL, FERTILIZER SEED NO.40 & EROSION MAT URBAN CL.I TYPE A

FINISHED TYPICAL SECTION - STH 77

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	TYPICAL SECTIONS	SHEET 8	E

2

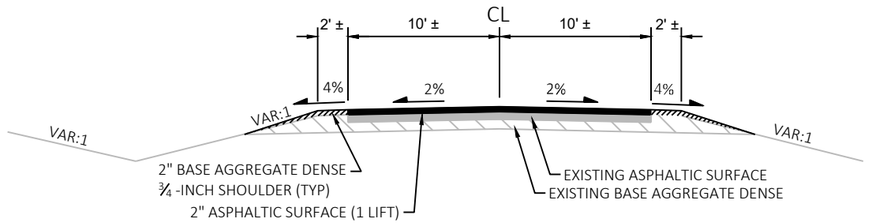
* SEE INTERSECTION AND PAVING DETAILS FOR ADDITIONAL INFORMATION.



(1) TOPSOIL, FERTILIZER SEED NO.40 & EROSION MAT URBAN CL.I TYPE A

FINISHED TYPICAL SECTION - SIDEROADS

JEFFERSON AVE
WASHINGTON AVE
FAYETTE AVE
CTH GG
BENNETT AVE
TYLER AVE
LAYMAN AVE



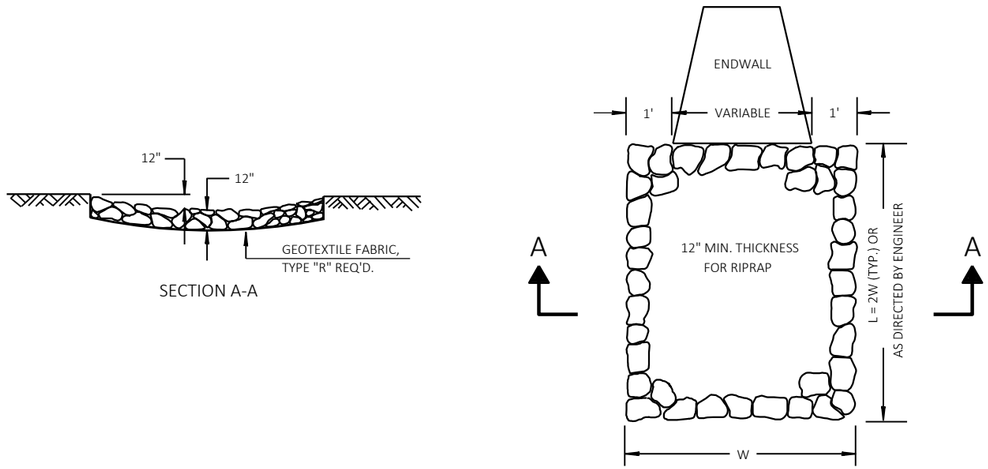
FINISHED TYPICAL SECTION - ASPHALT OVERLAY DETOUR ROUTE (STAGE 2)

OLSON RD

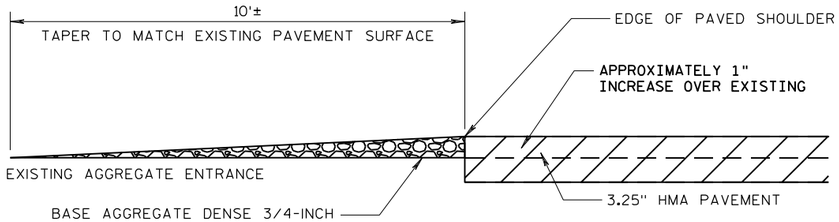
RUNOFF COEFFICIENT TABLE

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

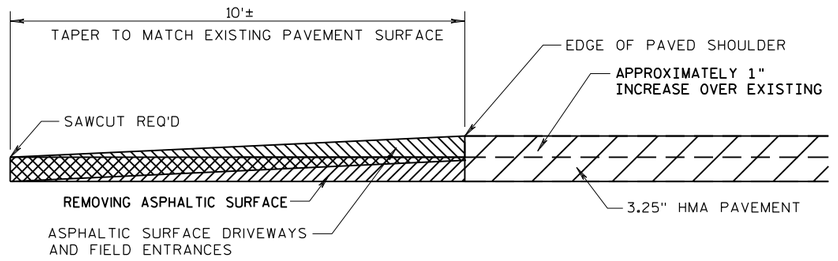
TOTAL PROJECT AREA = 20 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 5.5 ACRES



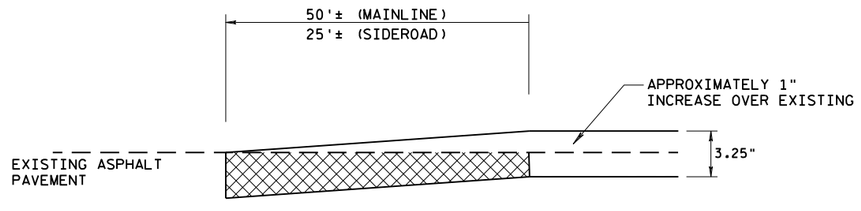
RIPRAP TREATMENT AT CULVERTS



BASE AGGREGATE PRIVATE ENTRANCE DETAIL PROFILE VIEW

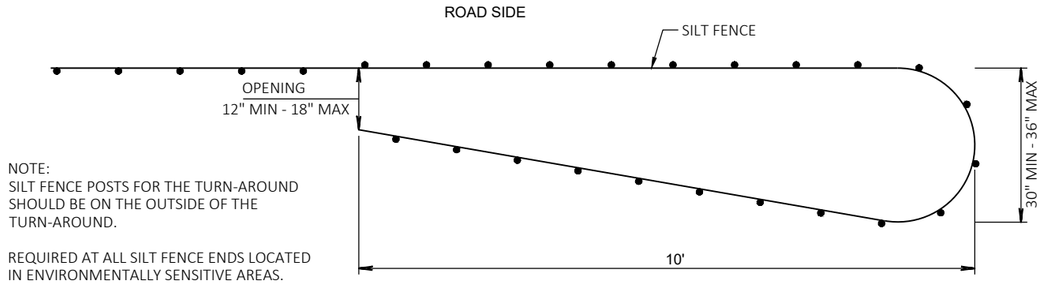


PAVED PRIVATE ENTRANCE DETAIL PROFILE VIEW



BUTT JOINT DETAIL

REMOVING ASPHALTIC SURFACE BUTT JOINT (DEPTH VARIES FROM 3.25" TO 2")

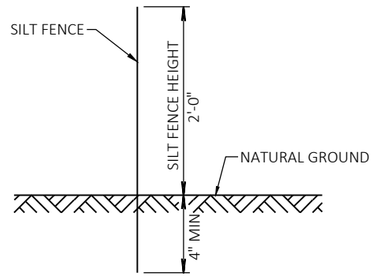


NOTE:
SILT FENCE POSTS FOR THE TURN-AROUND SHOULD BE ON THE OUTSIDE OF THE TURN-AROUND.

REQUIRED AT ALL SILT FENCE ENDS LOCATED IN ENVIRONMENTALLY SENSITIVE AREAS.

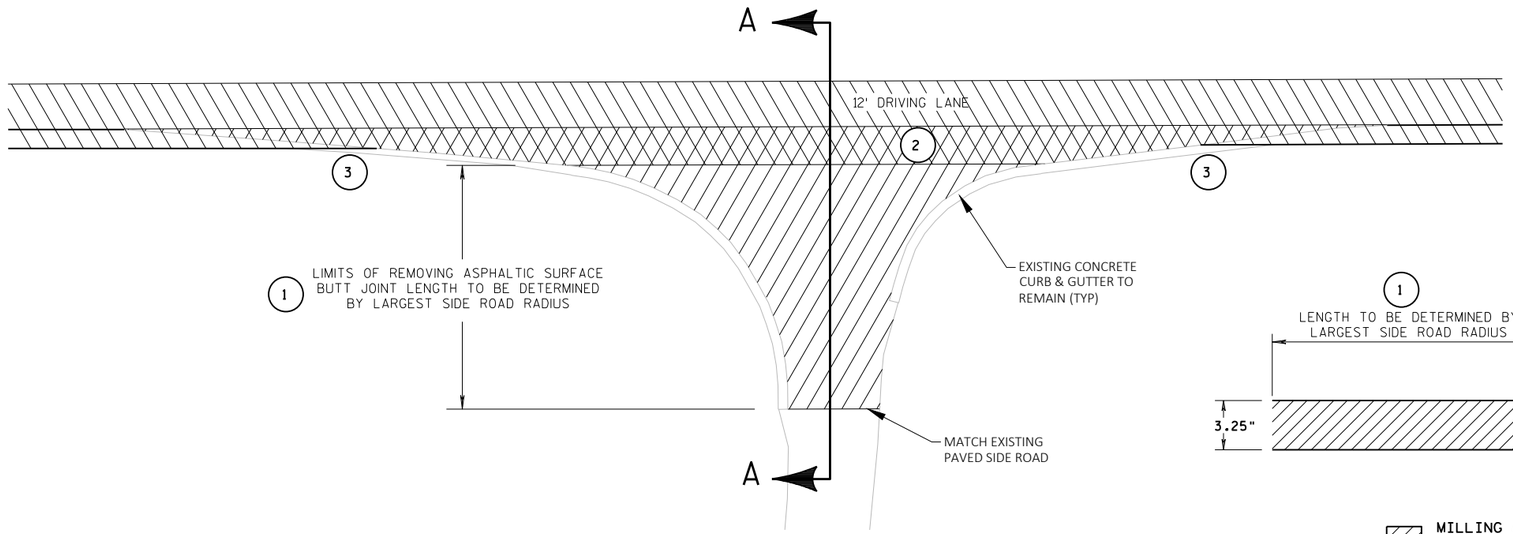
INCIDENTAL TO THE SILT FENCE BID ITEM.

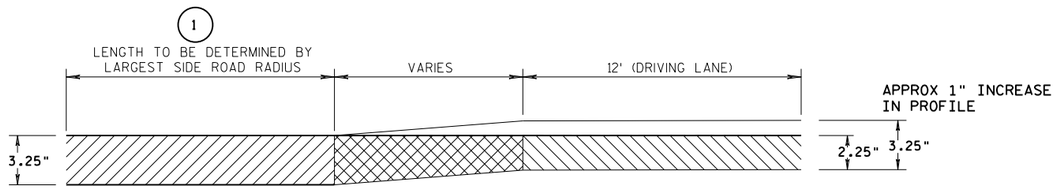
PLAN VIEW



SIDE VIEW

SILT FENCE TURN-AROUND DETAIL





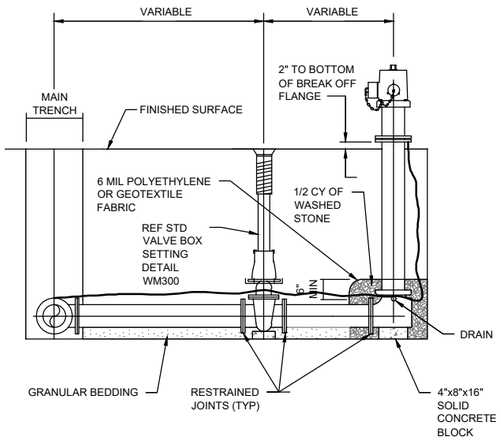
DETAIL FOR RURAL PAVED SIDE ROAD W/CURB & GUTTER

MILLING ASPHALTIC SURFACE (DEPTH 3.25")

MILLING ASPHALTIC SURFACE (DEPTH VARIES FROM 3.25" TO 2.25")

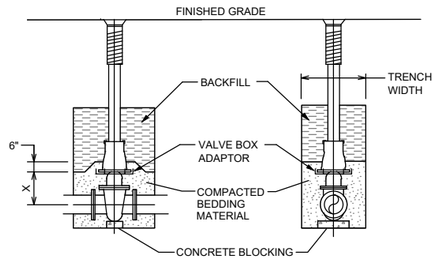
MILLING ASPHALTIC SURFACE (DEPTH 2.25")

1. LIMITS AS DIRECTED BY THE ENGINEER.
2. TRANSITION SHOULDER SLOPE AND SIDE ROAD CROSS-SLOPE TO MATCH THE EXISTING CONCRETE CURB AND GUTTER FLANGE LINE.
3. MATCH EXISTING TAPER RATES.



STANDARD HYDRANT SETTING

NOT TO SCALE



SIDE VIEW

PIPE DIA (INCHES)	X=SETTING (INCHES)
2	6
3	7
4	8
6	12
8	13

FRONT VIEW

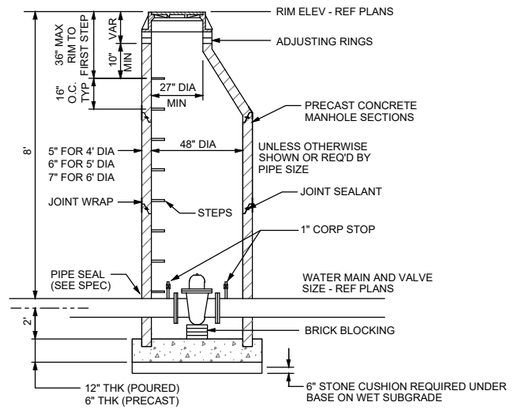
PIPE DIA (INCHES)	X=SETTING (INCHES)
10	17
12	21
14	25
16	30

STANDARD VALVE BOX SETTING

NOT TO SCALE

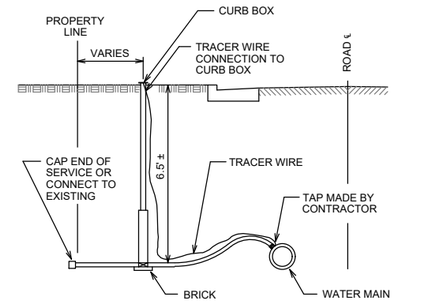
CASTING TYPE: J-S

ADJUST FRAME TO GRADE WITH A MINIMUM OF TWO ADJUSTING RINGS TOTALING 6" TO 12" MAX.



WATER VALVE MANHOLE

NOT TO SCALE

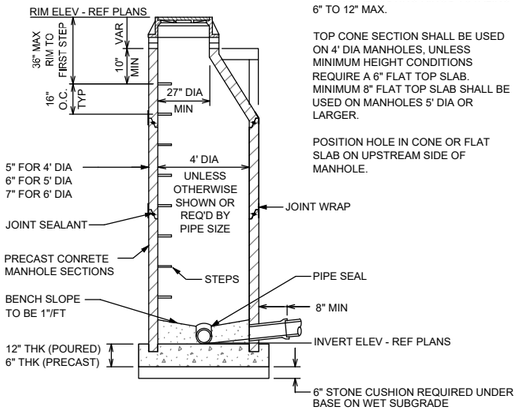


NOTE:

1. TAP WATER MAIN ON 45° WITH PIPE. MINIMUM HORIZONTAL DISTANCE BETWEEN CORP STOPS SHALL BE 3-FEET.
2. WATER SERVICES SHALL BE POLYETHYLENE UNLESS SHOWN OTHERWISE.

WATER SERVICE INSTALLATION

NOT TO SCALE



CASTING: TYPE J-S.

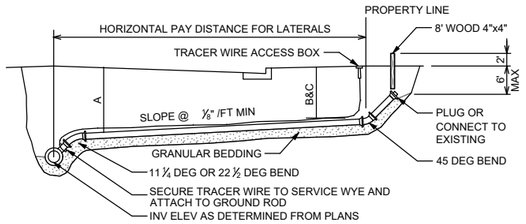
ADJUST FRAME TO GRADE WITH A MINIMUM OF TWO ADJUSTING RINGS TOTALING 6" TO 12" MAX.

TOP CONE SECTION SHALL BE USED ON 4' DIA MANHOLES, UNLESS MINIMUM HEIGHT CONDITIONS REQUIRE A 6" FLAT TOP SLAB. MINIMUM 8" FLAT TOP SLAB SHALL BE USED ON MANHOLES 5' DIA OR LARGER.

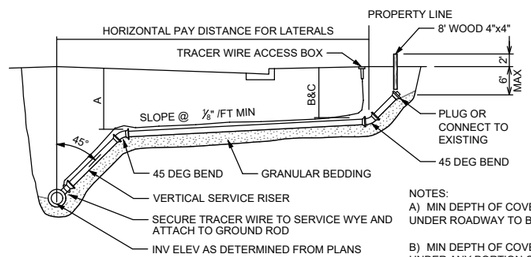
POSITION HOLE IN CONE OR FLAT SLAB ON UPSTREAM SIDE OF MANHOLE.

STANDARD SANITARY MANHOLE

NOT TO SCALE



STANDARD INSTALLATION W/OUT RISER



STANDARD INSTALLATION W/ RISER

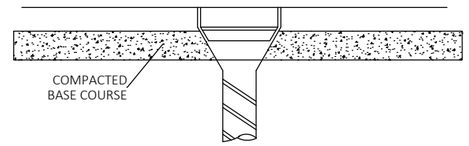
NOTES:
A) MIN DEPTH OF COVER UNDER ROADWAY TO BE 7'-0"

B) MIN DEPTH OF COVER UNDER ANY PORTION OF GRASS AREAS TO 5'-0"

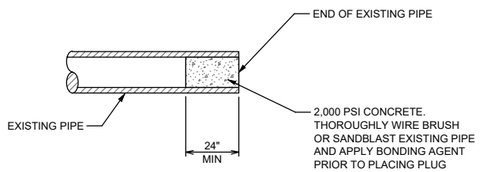
C) MIN DEPTH OF COVER AT PROPERTY LINE TO 9'-0" (12' DESIRABLE) OR AS REQUIRED TO SERVE EXISTING DEVELOPMENT.

SANITARY SEWER LATERAL

NOT TO SCALE

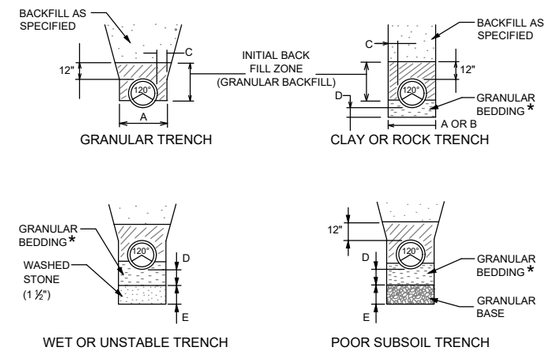


WATER VALVE BOX ADJUSTMENT



ABANDON WATER MAIN

NOT TO SCALE



* FOR FLEXIBLE PIPE, BEDDING MATERIAL SHALL EXTEND TO SPRING LINE (MID HEIGHT) OF PIPE.

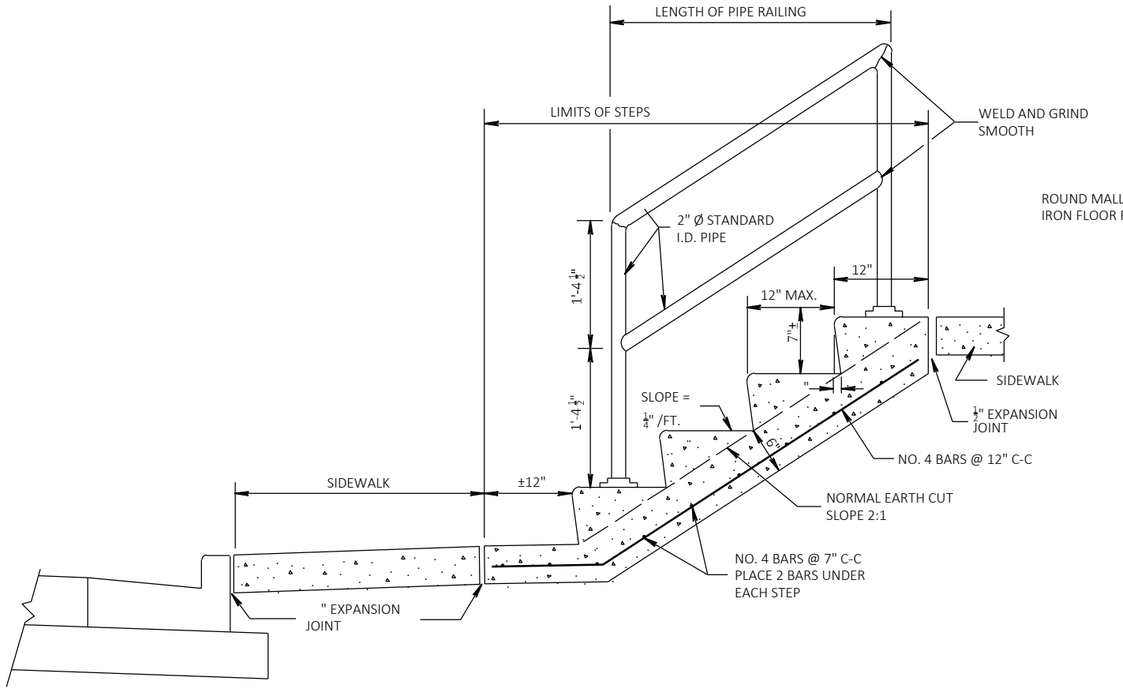
A=O.D. PIPE + 24"(MAX)
B=O.D. PIPE + 18"(MAX) FOR ROCK
C=6" MIN.

D=4" BELOW BARREL FOR CLAY
3" BELOW BELL FOR CLAY
6" BELOW BARREL FOR ROCK
E=DETERMINED BY A/E

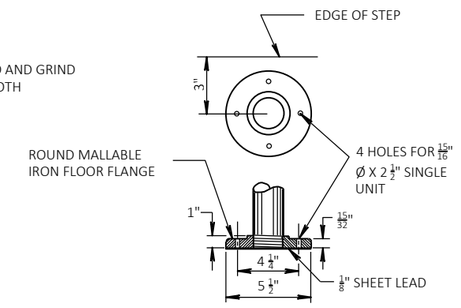
TRENCH SECTIONS

NOT TO SCALE

2



CONCRETE STEPS DETAIL



FLANGE DETAIL

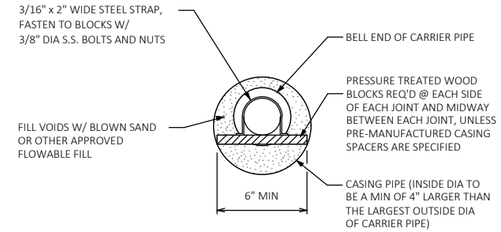
NOTE:

THE EXACT LOCATION, WIDTHS, & NUMBER OF STEPS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

STEEL REINFORCEMENT AND PIPE RAILING NOT REQUIRED ON STEPS WITH 2 RISERS OR LESS.

MINIMUM WIDTH OF STEP EQUALS 4 FEET.

RAILING TO BE PLACED ON LEFT ASCENDING SIDE OF STEPS ONLY.



STEEL CASING PIPE FOR E72 LOADING	
MIN THICKNESS (INCHES) FOR PIPE NOT CATHODICALLY PROTECTED	CASING PIPE DIAMETER (INCHES)
0.250	UNDER 14
0.282	14 AND 16
0.312	18
0.344	20
0.375	22
0.406	24
0.438	26
0.469	28 AND 30
0.500	32
0.531	34 AND 36
0.563	38, 40 AND 42

NOTE:
WALL THICKNESS FOR STEEL CASING PIPE W/ 35,000 P.S.I. MIN YIELD STRENGTH.
FOR MATERIAL OF LOWER YIELD STRENGTH, INCREASE THICKNESS AN ADDITIONAL $\frac{1}{16}$"

CASING PIPE

TEXT IN RED

CITY OF MELLEN
SANITARY SEWER AND WATER MAIN REPLACEMENT

A COMMUNITY FACILITIES PARTNERSHIP
FINANCED IN PART BY COMMUNITY DEVELOPMENT BLOCK GRANT FUNDS

FROM THE WISCONSIN DEPARTMENT OF ADMINISTRATION AND THE U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

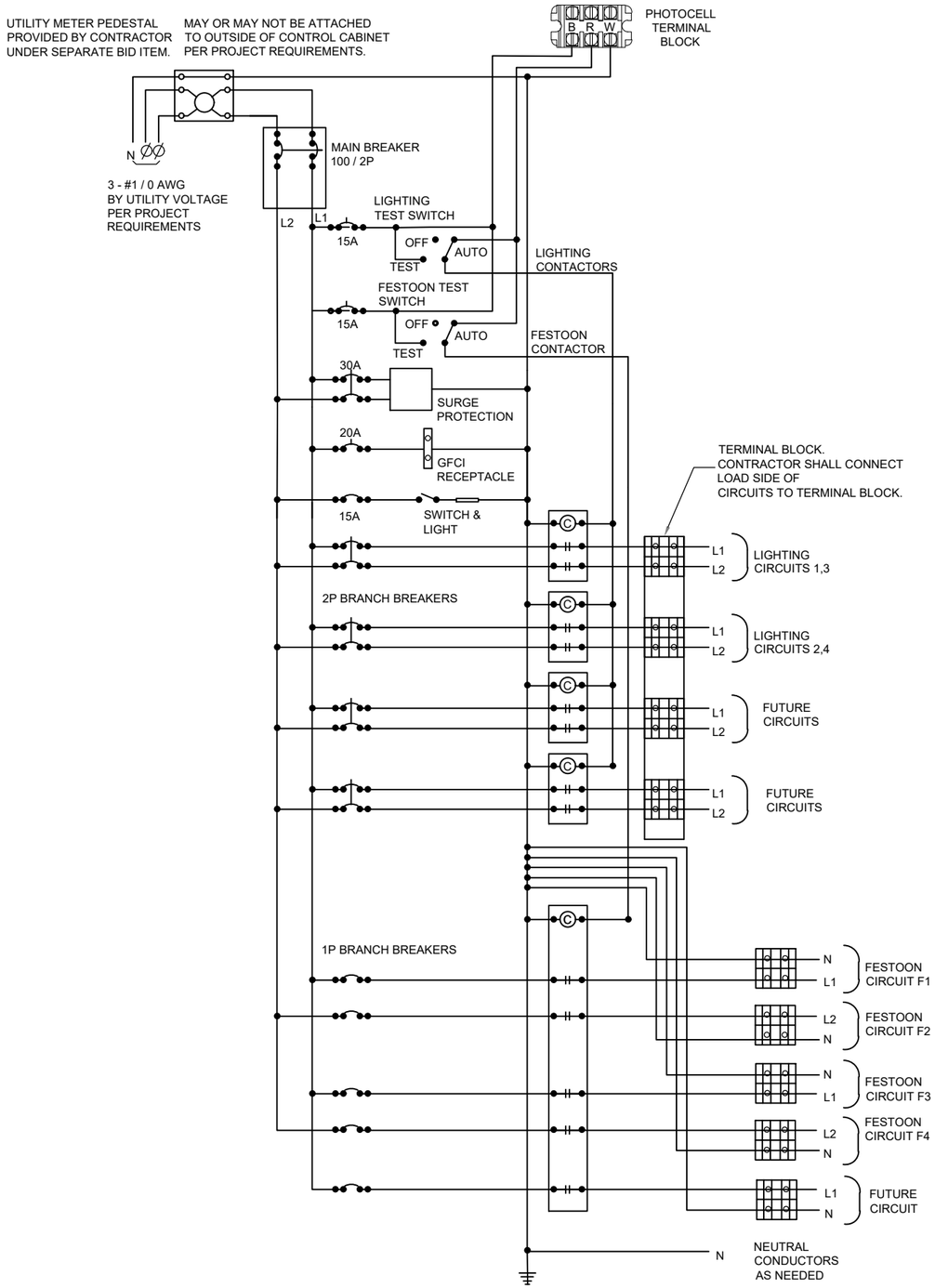
Tony Evers, Governor
Kathy Blumenfeld, Secretary
Joseph A. Barabe, Mayor

State and Federal Equal Opportunity laws apply in the construction and use of this project.

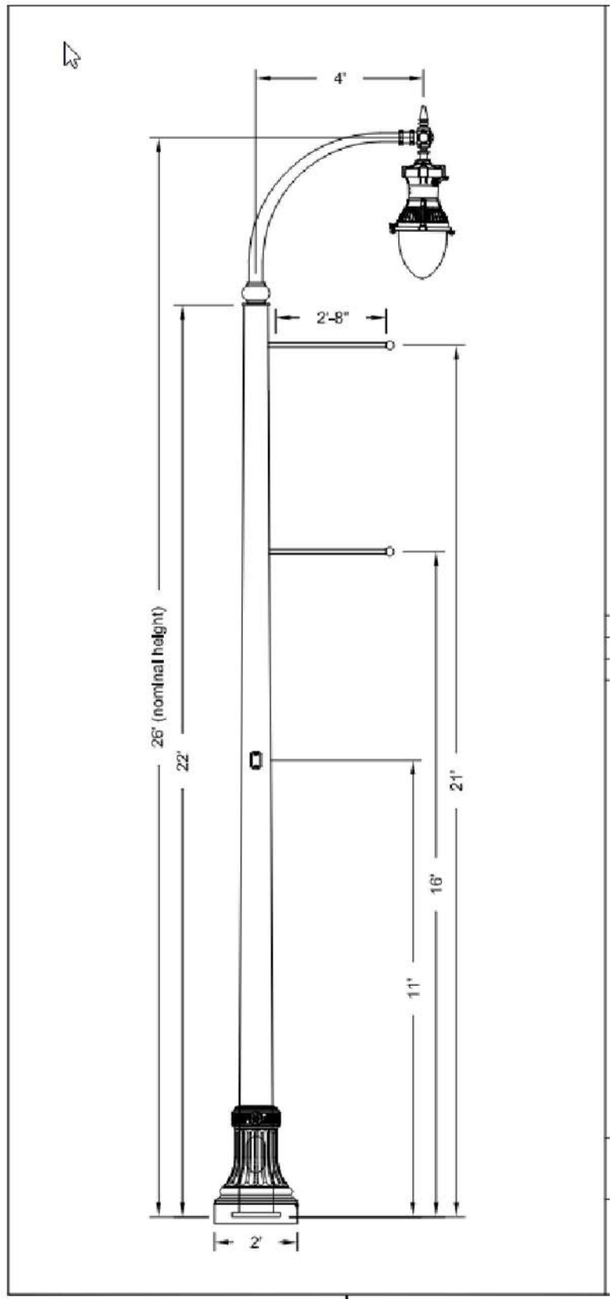
NOTES:
- SIGN DIMENSIONS: 4 FEET BY 8 FEET
- PLYWOOD PANEL APA RATED A-B GRADE - EXTERIOR
- WHITE BACKGROUND
- BLACK AND RED TEXT AS SHOWN
- SIGN MUST INCLUDE THE NAME OF THE CURRENT GOVERNOR AND CURRENT SECRETARY OF THE DEPARTMENT OF ADMINISTRATION
- THE SMALLEST PRINT MUST BE READABLE FROM 500 FEET AWAY.

TEMPORARY CDBG SIGN

NOT TO SCALE

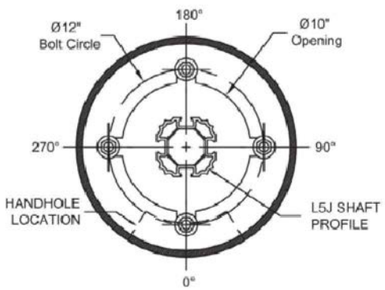


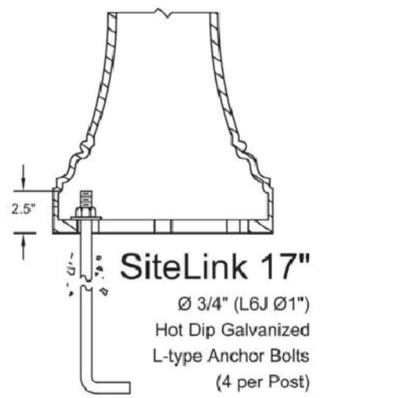
CONTROL CABINET SCHEMATIC LCC B .



DECORATIVE LIGHTING UNIT

17D
(17" Base, Diamond Pattern Bolt Circle)





CONCRETE BASES TYPE 5-DEC .

2

N

SIGNAL AND GATE ARM
(BY OTHERS)

28'

100'

1012+00

1013+00

1014+00

N1° 17' 53"E

2'

32'

STH 13/STH 77/MAIN ST

SIGN

SIGN

30'

SIGNAL AND GATE ARM
(BY OTHERS)

SIGNAL AND GATE ARM
(BY OTHERS)

SEE PROJECT ID 1610-00-56/57
FOR ADDITIONAL INFORMATION
REGARDING RAILROAD CROSSING
CONSTRUCTION

STH 77

PROJECT NO: 1610-00-56/57	HWY: STH 13	COUNTY: ASHLAND	RAILROAD CROSSING DETAIL	SHEET 15	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSOTHER\EXHIBIT - RR MEDIAN LAYOUT.DWG
LAYOUT NAME - 050103-pp_Alt-2

PLOT DATE : 7/25/2022 4:08 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

2

JEFFERSON AVE

11+00

WASHINGTON AVE

21+00

N

998+00

999+00

1000+00

1001+00

1002+00

1003+00

STH 13

BEGIN PROJECT
STA 998+00.00

SIGN

SIGN

FAYETTE AVE

31+00

LEGEND

REMOVING CONCRETE SIDEWALK

REMOVING CURB & GUTTER

REMOVING CONCRETE PAVEMENT

N

1004+00

1005+00

1006+00

1007+00

1008+00

1009+00

STH 13

SIGN

2

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	REMOVAL PLAN	SHEET 16	E

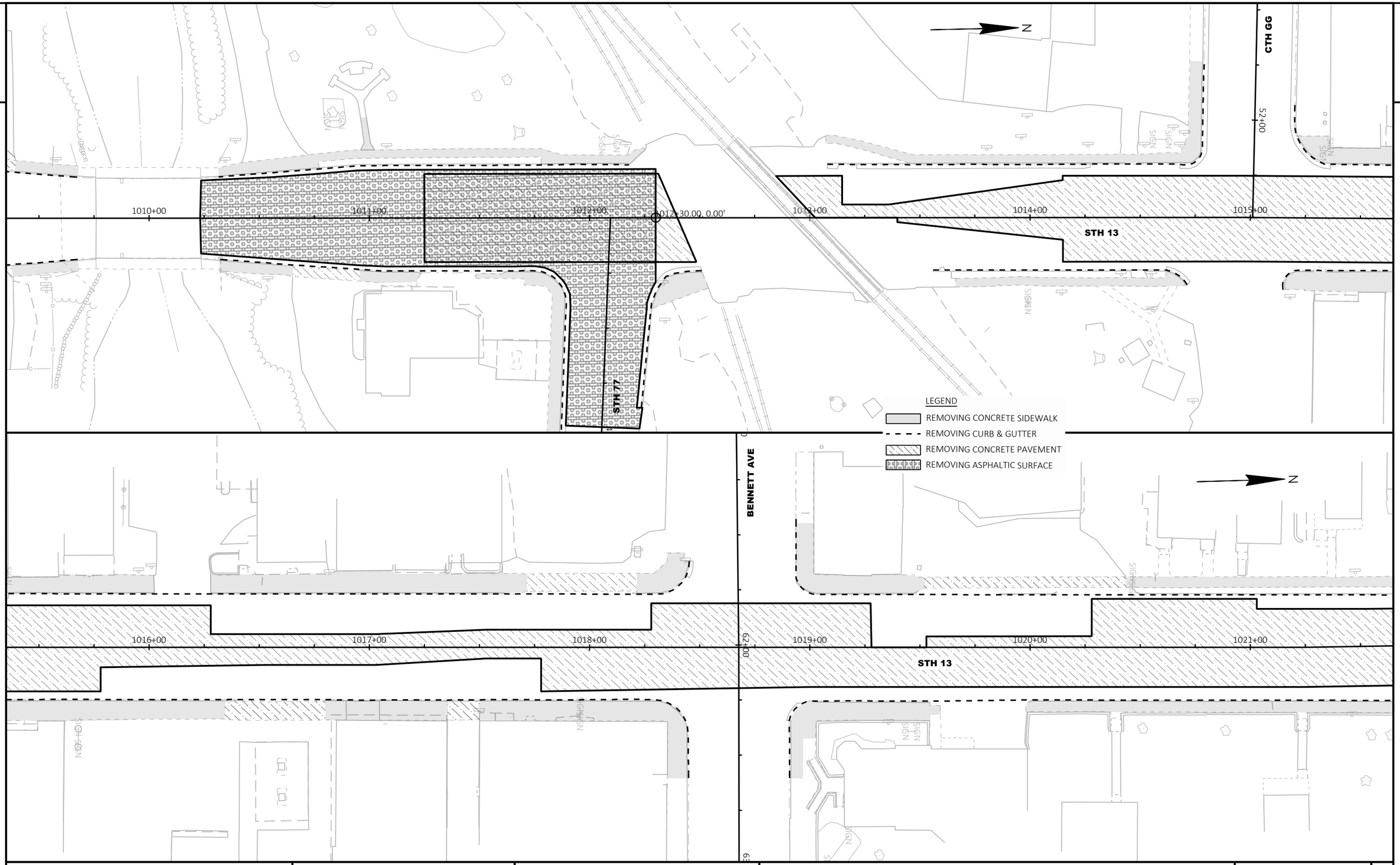
FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\021003-CD.DWG
LAYOUT NAME - 021005-rp

PLOT DATE : 7/25/2022 4:08 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

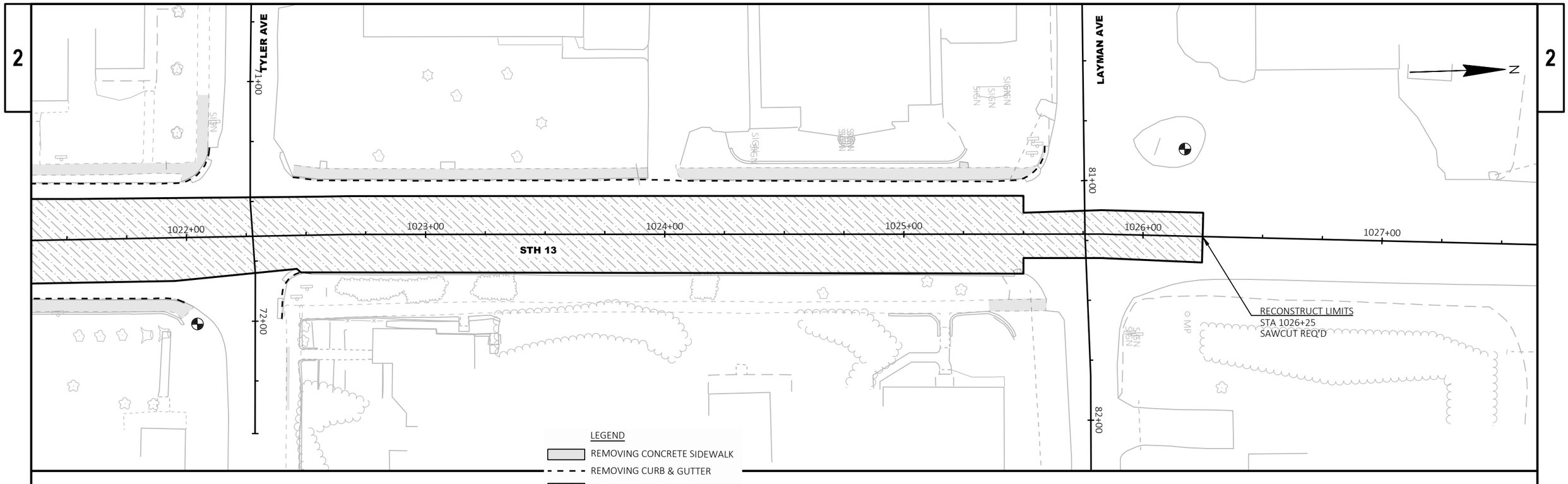
WISDOT/CADDS SHEET 44

2

2



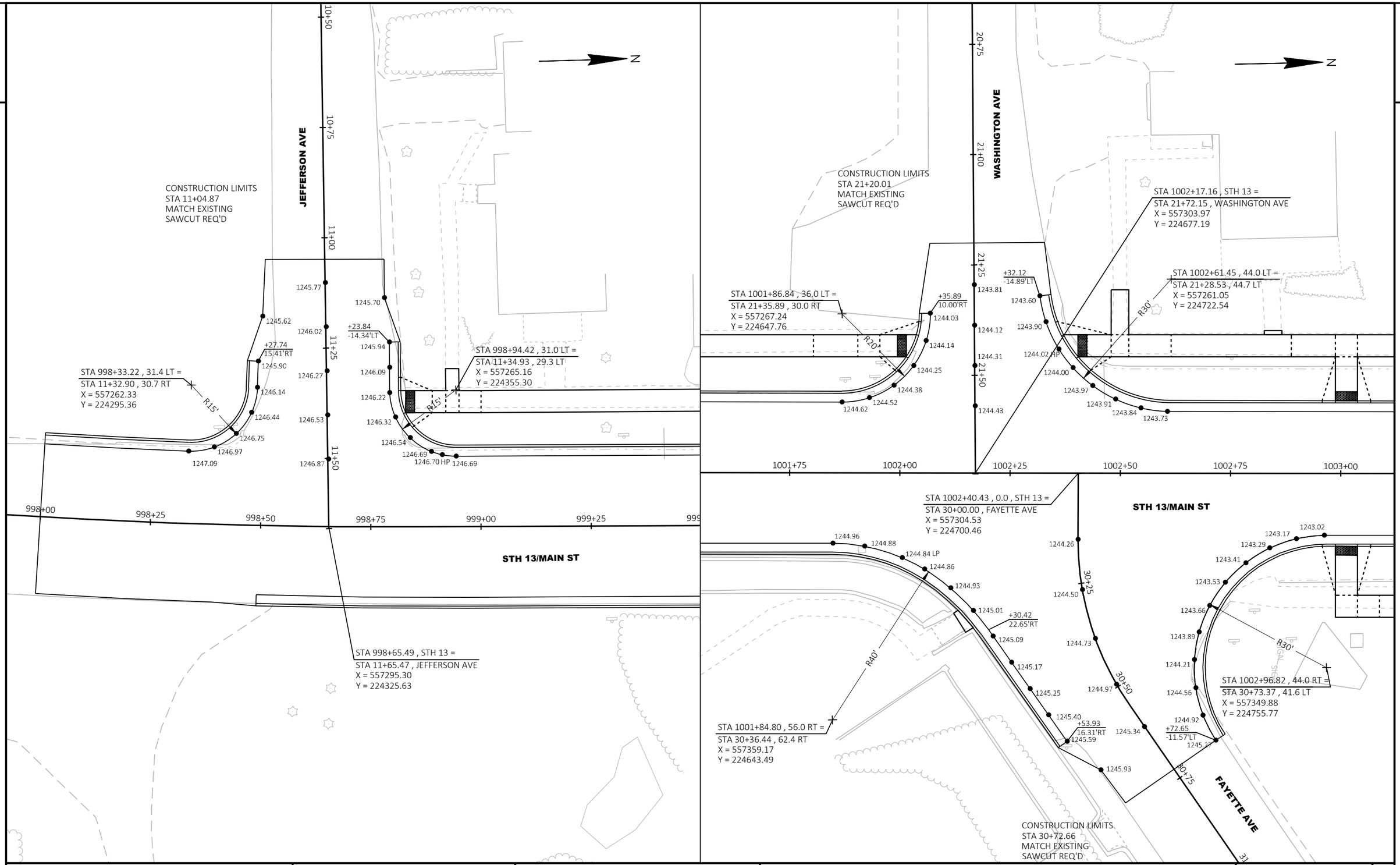
PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	REMOVAL PLAN	SHEET 17	E



PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	REMOVAL PLAN	SHEET 18	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\021003-CD.DWG
LAYOUT NAME - 021007-rp

PLOT DATE : 7/25/2022 4:08 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:40 FT



PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	INTERSECTION DETAILS	SHEET 19	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\021101-ID.DWG
LAYOUT NAME - 021101-id

PLOT DATE : 7/25/2022 4:09 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:20 FT

2

2

N

STA 1012+09.47 , STH 13 =
STA 40+00.00 , STH 77
X = 557326.65
Y = 225669.25

1010+75 1011+00 1011+25 1011+50 1011+75 1012+00 1012+25 1012+50 1012+75 1013+00 1013+25 1013+50

STH 13/ MAIN ST

+16.06
22.09'RT

1237.04 1237.33 1237.60 1237.79 1237.99 1238.18 1238.30 1238.31 HP 1238.26 1238.05 1237.68 1237.15 1236.45 1235.58 1234.58 1233.57 1232.70 +00.97 16.00'RT 1231.99 1231.43 1231.04 1230.79

R75'

STA 1011+14.24 , 97.0 RT =
STA 41+00.91 , 91.1 RT
X = 557421.46
Y = 225571.85

+13.32
132.15'RT
1228.84

6:1

+14.22
105.67'RT
1229.40

6:1

+15.12
79.20'RT
1229.97

6:1

+16.02
52.72'RT
1230.53

6:1

+16.91
26.25'RT
1231.10

1239.69 40+25 1239.37 1238.80 40+50 1237.91 1236.72 40+75 1235.24 1233.82 41+00 1232.69 1231.86 41+25 1231.31

STH 77

CONSTRUCTION LIMITS
STA 41+38.77
MATCH EXISTING
SAWCUT REQ'D

1240.46 1240.52 1240.58 1240.64
1240.46
1240.44
1240.38
1240.27
1240.06
1239.75
1239.34
1238.84
1238.23
1237.53
1236.74
1235.93

R60'

+78.88
-16.00'LT

ASPHALTIC FLUME

+81.24
-35.54'LT
1232.71

3:1

1232.25

DITCH BOTTOM

1234.59 1233.71 1232.92 1232.28 1231.79 1231.46 1231.29 1231.19

+97.56
-34.57'LT
1231.63

1231.02

+14.01
-34.43'LT
1230.41

3:1

1229.94

+30.24
-36.26'LT
1229.74

STA 1012+82.01 , 82.0 RT =
STA 40+78.89 , 75.9 LT
X = 557410.27
Y = 225739.91

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	INTERSECTION DETAILS	SHEET 20	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\021101-ID.DWG
LAYOUT NAME - 021102-id

PLOT DATE : 7/25/2022 4:09 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 44

2

N

CTH GG

STH 13/MAIN ST

STA 1014+22.52 , 87.0 LT =
STA 51+58.98 , 80.5 RT
X = 557244.50
Y = 225884.21

STA 1014+41.33 , 70.3 LT =
STA 51+75.26 , 61.3 RT
X = 557261.62
Y = 225902.64

R65'
R40'

1250.27
1250.07
1249.83
1249.54
1249.22
+06.36
36.01'RT
1248.86
1248.46
1248.02
1247.55
1247.03
1246.48
1245.94

17.0'
22.0'
20.0'

21.3'
15.7'

51+25
51+50
51+75
52+00
52+25

1250.83
1250.55
1250.28
1250.10
1249.99

1250.96
1250.83
+92.73
-15.81'LT
1250.68
1250.53
1250.44
1250.41 LP
1250.44
1250.52
1250.65
1250.78
1250.93

16.0'
22.0'

1014+25
1014+50
1014+75
1015+00
1015+25
1015+50

CONSTRUCTION LIMITS
STA 51+75.04
MATCH EXISTING
SAWCUT REQ'D

STA 1015+52.62 , 51.0 LT =
STA 51+92.51 , 50.8 LT
X = 557283.92
Y = 226013.88

R35'

STA 1015+01.09 , STH 13 =
STA 52+44.23 , CTH GG
X = 557333.29
Y = 225960.79

SIGN

CONSTRUCTION LIMITS
STA 61+43.16
MATCH EXISTING
SAWCUT REQ'D

STA 1018+65.12 , 55.1 LT =
STA 61+45.96 , 2.0 RT
X = 557289.54
Y = 226326.36

R18'
1258.32
1258.25
1258.18
1258.10
1258.03
1257.95
1257.88
1257.80
1257.72
1257.62
1257.52
1257.39
1257.26
1257.15
1256.96
1257.04

STA 1018+33.01 , 35.3 LT =
STA 61+65.37 , 34.3 RT
X = 557308.28
Y = 226293.65

R19'
R18'

STA 1018+10.96 , 4.0 LT =
X = 557338.93
Y = 226270.64

1018+00
1018+25
1018+50

STH 13/MAIN ST

STA 1018+13.64 , 4.0 RT =
X = 557347.01
Y = 226273.07

R18'
1257.63
1257.73
1257.80
1257.86
1257.91
1257.92 HP
1257.91
1257.86
1257.76
1257.64
1257.52
1257.39
1257.24
1257.07
1256.89

STA 1018+33.88 , 36.0 RT =
STA 62+37.03 , 33.9 RT
X = 557379.63
Y = 226292.31

R19'
R18'

STA 1018+64.79 , 59.3 RT =
STA 62+60.39 , 3.0 RT
X = 557403.89
Y = 226322.47

CONSTRUCTION LIMITS
STA 62+62.33
MATCH EXISTING
SAWCUT REQ'D

BENNETT AVE

STA 1018+71.63 , 56.3 LT =
STA 61+44.80 , 4.5 LT
X = 557288.51
Y = 226332.90

R20'
1259.17
1259.12
1259.09 LP
1259.13
1259.20
1259.27
1259.28 HP
1259.26
1259.18 LP
1259.23
1259.43
1259.63

STA 1018+67.70 , STH 13 =
STA 62+01.08 , BENNETT AVE
X = 557344.69
Y = 226327.22

STA 1019+05.72 , 35.7 LT =
STA 61+65.75 , 38.4 LT
X = 557310.16
Y = 226366.34

R18'

STA 1019+26.73 , 4.0 LT =
X = 557342.53
Y = 226386.35

R18'

1018+75
1019+00
1019+25

STA 1019+25.10 , 4.0 RT =
X = 557350.47
Y = 226384.47

R18'
1259.53
1259.33
1259.14
1258.97
1258.87
1258.83
1258.80
1258.78
1258.75
1258.72

STA 1019+02.85 , 36.3 RT =
STA 62+37.48 , 35.1 LT
X = 557382.11
Y = 226361.23

R20'
R18'

STA 1018+70.77 , 59.3 RT =
STA 62+60.34 , 3.0 LT
X = 557404.01
Y = 226328.45

61+00
61+25
61+50
61+75
62+00
62+25
62+50
62+75

1258.69
1258.59
1258.49
1258.39
1258.29
1258.30
1258.34
1258.38
1258.38
1258.34

SIGN

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	INTERSECTION DETAILS	SHEET 21	E

2

CONSTRUCTION LIMITS
STA 70+99.82
MATCH EXISTING
SAWCUT REQ'D

STA 1021+96.33 , 34.3 LT =
STA 71+30.79 , 31.0 RT
X = 557319.37
Y = 226656.21

R20'

1271.04
1271.01
1270.97
1271.19
1270.96 LP
1270.98
1271.01
1271.04
1271.05
1271.02
1270.95
1270.85
1270.70
1270.50
1270.30
1270.08
1269.88

R18'

STA 1021+71.31 , 3.2 LT =
X = 557350.12
Y = 226630.75

STA 1021+76.59 , 6.9 RT =
X = 557360.28
Y = 226635.89

R16'

1270.51
1270.68
1270.84
1270.99
1271.13
1271.22
1271.27
1271.41
1271.83
1272.54
1273.54
1274.45
1274.46
1275.24
1275.96
1276.65
1277.34

R20'

STA 1021+97.57 , 37.7 RT =
STA 72+02.96 , 30.5 RT
X = 557391.42
Y = 226656.44

CONSTRUCTION LIMITS
STA 72+25.67
MATCH EXISTING
SAWCUT REQ'D

1021+50
1021+75
1022+00
1022+25
1022+50
1022+75
1023+

N

TYLER AVE

70+75
71+00
71+25
71+50
71+75
72+00
72+25

1271.04
1271.00
1271.21
1270.96 LP
1270.97
1271.03
1271.23
1271.13
1271.24
1271.28
1271.37
1271.50
1271.59
1271.39

R15'

STA 1022+53.26 , 29.3 LT =
STA 71+34.81 , 26.0 LT
X = 557325.19
Y = 226713.06

STH 13

1271.88
1271.83 LP
1271.95
1272.33
1271.70
1272.14
1272.87
1273.13
1273.61
1274.45
1275.24
1275.94
1275.58
1276.59
1276.62
1277.22
1277.84

R14'

STA 1022+52.79 , 28.0 RT =
STA 71+92.09 , 24.5 LT
X = 557382.46
Y = 226711.78

STA 1022+27.72 , STH 13 =
STA 71+64.57 , TYLER AVE
X = 557354.11
Y = 226687.12

CONSTRUCTION LIMITS
STA 80+72.72
MATCH EXISTING
SAWCUT REQ'D

SIGN

STA 1025+45.68 , 34.0 LT =
STA 80+88.01 , 29.7 RT
X = 557329.51
Y = 227006.01

R20'

1269.60
1269.36
1269.26 LP
1269.30
1269.37
1269.47
1269.66
1269.87

1025+25
1025+50
1025+75
1026+00
1026+25
1026+50

STH 13

1270.35
1270.27
1270.21
1270.19 LP
1270.22
1270.25
1270.39
1270.70
1271.14
1271.59
1271.61
1272.08

R22'

STA 1025+44.40 , 36.0 RT =
STA 81+57.08 , 32.7 RT
X = 557399.43
Y = 227002.51

CONSTRUCTION LIMITS
STA 81+81.57
MATCH EXISTING
SAWCUT REQ'D

N

LAYMAN AVE

80+25
80+50
80+75
81+00
81+25
81+50
81+75
82+00

1269.39
1269.06
1268.95
1269.06
1269.72
1269.82
1270.17
1270.82
1271.02
1271.57
1272.11

R20'

STA 1026+06.64 , 40.0 LT =
STA 80+83.31 , 32.3 LT
X = 557326.07
Y = 227068.07

1268.92
1268.71
1268.56
1268.41
1268.24

1268.25
1268.11
1268.38
1268.54
1268.78
1269.08
1269.46
1269.91
1270.44

R32'

ASPHALTIC FLUME

STA 1026+21.96 , 47.0 RT =
STA 81+72.04 , 43.2 LT
X = 557413.79
Y = 227078.50

STA 1025+75.73 , STH 13 =
STA 81+22.35 , LAYMAN AVE
X = 557364.44
Y = 227034.97

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	INTERSECTION DETAILS	SHEET 22	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\021101-ID.DWG
LAYOUT NAME - 021104-id
PLOT DATE : 7/25/2022 4:09 PM
PLOT BY : RESHESKE, CARRIE
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 44

2

2

STA 1029+41.67 , STH 13 =
STA 90+00.62 , STH 169
X = 557389.41
Y = 227399.99

1027+75 1028+00 1028+25 1028+50 1028+75 1029+00 1029+25 1029+50 1029+75 1030+00 1030+25 1030+50 1030+

STH 13

1253.35 1252.83 1252.30 1251.76 1251.17 1250.36 1250.13 1250.11 1250.06 1250.00 1249.95

1251.34 1250.91 1250.46 1250.00 1249.90 1249.88 1249.85 1249.83

90+25 90+50 90+75 91+00

LINCOLN AVE

1249.62 1249.72 1249.81 1249.89 1249.83 1249.66 1249.56 1249.51 1249.46 1249.41

R30'

R15'

STA 1029+04.21 , 52.0 RT =
STA 90+49.17 , 41.5 RT
X = 557437.12
Y = 227357.55

STA 1029+72.26 , 37.4 RT =
STA 90+40.87 , 26.6 LT
X = 557430.18
Y = 227425.73

CONSTRUCTION LIMITS
STA 1027+65, 54' RT
MATCH EXISTING

CONSTRUCTION LIMITS
STA 90+60.25
MATCH EXISTING
SAWCUT REQ'D

CONSTRUCTION LIMITS
STA 1030+77, 54' RT
MATCH EXISTING
SAWCUT REQ'D

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	INTERSECTION DETAILS	SHEET 23	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\021101-ID.DWG
LAYOUT NAME - 021105-id

PLOT DATE : 7/25/2022 4:09 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:20 FT

2

CONSTRUCTION LIMITS
STA 11+04.87
MATCH EXISTING
SAWCUT REQ'D

JEFFERSON AVE

11+00

SAWCUT REQ'D (35.8' LT)

STA 999+79
CONSTRUCT PE
(ASPHALT)
SAWCUT REQ'D
(33.2' LT)

STA 1000+05
CONSTRUCT PE
(ASPHALT)
SAWCUT REQ'D
(33.2' LT)

STA 1000+89
CONSTRUCT PE
(ASPHALT)
SAWCUT REQ'D
(33.3' LT)

CONSTRUCTION LIMITS
STA 21+20.01
MATCH EXISTING
SAWCUT REQ'D

WASHINGTON AVE

21+00

N

SEE CURB RAMP DETAILS FOR
ADDITIONAL INFORMATION
(TYP)

SAWCUT REQ'D (41.5' LT)

SAWCUT REQ'D (32.4' LT)

998+00 999+00 1000+00 1001+00 1002+00 1003+00

BEGIN PROJECT
STA 998+00.00

STA 1000+25
CONSTRUCT PE
(ASPHALT)
SAWCUT REQ'D
(43.5' RT)

CONCRETE CURB & GUTTER
30-INCH TYPE D (TYP)

SAWCUT REQ'D

RETAINING WALL STRUCTURE R-02-0013
(TO REMAIN)
CLEAN & SEAL RETAINING WALL

+98.85
32.57' RT

CONSTRUCTION LIMITS
STA 30+72.66
MATCH EXISTING
SAWCUT REQ'D

FAYETTE AVE

31+00

LEGEND

- CONCRETE SIDEWALK 4-INCH
- CONCRETE DRIVEWAY 6-INCH
- 2" ASPHALTIC SURFACE
- 3" ASPHALTIC SURFACE DRIVEWAY
- 4.25" HMA PAVEMENT (PARKING LANES)
- 6.5" HMA PAVEMENT (DRIVING LANES)
- CONCRETE PAVEMENT APPROACH SLAB

STA 1003+59
CONSTRUCT PE
(CONCRETE)
SAWCUT REQ'D
(54.6' LT)

STA 1003+83
CONSTRUCT PE
(ASPHALT)
SAWCUT REQ'D
(32.9' LT)

STA 1004+37
CONSTRUCT PE
(ASPHALT)
SAWCUT REQ'D
(42.6' LT)

SAWCUT REQ'D
(33' LT)

STA 1005+38
CONSTRUCT PE
(ASPHALT)
SAWCUT REQ'D
(32.3' LT)

STA 1006+30
CONSTRUCT PE
(ASPHALT)
SAWCUT REQ'D
(33' LT)

STA 1006+50
CONSTRUCT PE
(CONCRETE)
SAWCUT REQ'D
(40.2' LT)

CONCRETE CURB & GUTTER
30-INCH TYPE D (TYP)

SAWCUT REQ'D
(32.1' LT)

STA 1008+25
CONSTRUCT PE
(ASPHALT)
SAWCUT REQ'D
(39.7' LT)

SAWCUT REQ'D
(32.3' LT)

SAWCUT REQ'D
(33.1' LT)

STA 1009+19
CONSTRUCT PE
(CONCRETE)
SAWCUT REQ'D
(33.2' LT)

STA 1009+19
CONSTRUCT PE
(ASPHALT)
SAWCUT REQ'D
(33.2' LT)

1004+00 1005+00 1006+00 1007+00 1008+00 1009+00

SAWCUT REQ'D
(32.5' RT)

SAWCUT REQ'D
(32.5' RT)

+35.31
32.50'RT
+40.28
39.50'RT

SAWCUT REQ'D
(44.5' RT)

+68.32
32.50'RT
+63.16
40.00'RT

SEE CURB RAMP DETAILS FOR
ADDITIONAL INFORMATION
(TYP)

SAWCUT REQ'D
(40.5' RT)

SAWCUT REQ'D

STA 1009+13
CONSTRUCT CE
(ASPHALT)
SAWCUT REQ'D
(42.5' RT)

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	PAVING DETAILS	SHEET 24	E

STRUCTURE B-02-0074

SAWCUT REQ'D
+47.44
-68.06'LT

CONSTRUCTION LIMITS
STA 51+75.04
MATCH EXISTING
SAWCUT REQ'D

+74.07
27.22'RT

+75.15
32.62'RT

SAWCUT REQ'D

+50.34
-52.66'LT

+50.13
-48.19'LT

CONCRETE CURB & GUTTER
30-INCH TYPE D (TYP)

CTH GG

S2400

+74.95
-22.04'LT

SAWCUT
REQ'D

+27.72
-37.00'LT

+34.44
-36.94'LT

+34.49
-31.04'LT

+22.01
-27.89'LT

+92.21
-28.00'LT

1013+17.8, -1.0' LT

1230.54 1230.90 1231.48 1232.26 1233.24 1234.04 1234.41 1235.23 1235.60 1236.40 1236.78 1237.40 1237.80 1238.21 1238.61 1238.82 1239.24 1239.45 1239.46 1239.67 1239.84 1239.90 1240.11 1240.26 1240.40 1240.45 1240.54 1240.65 1240.66 1240.33 LF 1240.56 1240.62 1240.64 1241.39 1241.18 1242.74 1242.23 1244.21 1243.70 1244.76 1245.94 1246.13 1247.85 1247.23 1248.59 1249.16 1249.95 1249.54 1250.45 1250.18 1250.80 1251.02 1230.54 1234.03 1235.20 1236.36 1237.03 1237.39 1238.26 1238.98 1239.54 1240.26 1240.45 1240.65 1240.66 1240.66 1240.56 1240.63 1240.66 1240.67 1240.84 1241.03 1241.64 1242.02 1242.30 1243.51 1244.57 1243.11 1245.04 1245.48 1246.79 1248.15 1249.10 1249.64 1250.26

1013+00 1014+00 1015+00 1016+00 1017+00 1018+00 1019+00 1020+00 1021+00

R40' R9.51

1013+25.9, 6.0' RT

1013+80.1, 2.0' RT

1014+14.3, -1.5' LT

BAD RIVER

STH 77

CONSTRUCTION LIMITS
STA 41+38.77
MATCH EXISTING
SAWCUT REQ'D

SEE CURB RAMP DETAILS FOR
ADDITIONAL INFORMATION
(TYP)

STA 1015+08
CONSTRUCT CE
(ASPHALT)
SAWCUT REQ'D
(32.4' RT)

LEGEND

- CONCRETE SIDEWALK 4-INCH
- CONCRETE DRIVEWAY 6-INCH
- 2" ASPHALTIC SURFACE
- 3" ASPHALTIC SURFACE DRIVEWAY
- 4.25" HMA PAVEMENT (PARKING LANES)
- 6.5" HMA PAVEMENT (DRIVING LANES)
- CONCRETE PAVEMENT APPROACH SLAB

74.95
22.04'LT

STA 1016+17
CONSTRUCT CE
(ASPHALT)
SAWCUT REQ'D
(49.1' LT)

+27.72
-37.00'LT

+34.44
-36.94'LT

+34.49
-31.04'LT

CONCRETE CURB & GUTTER
30-INCH TYPE D (TYP)

SEE CURB RAMP DETAILS FOR
ADDITIONAL INFORMATION
(TYP)

CONSTRUCTION LIMITS
STA 61+43.16
MATCH EXISTING
SAWCUT REQ'D

BENNETT AVE

STA 1019+85
CONSTRUCT CE
(ASPHALT)
SAWCUT REQ'D
(49.8' LT)

+72.39
-49.78'LT

+92.39
-49.76'LT

+66.23
-32.18'LT

+00.23
-32.15'LT

STA 1020+35
CONSTRUCT CE
(ASPHALT)
SAWCUT REQ'D
(32.9' LT)

SAWCUT REQ'D (32.4' LT)

1250.80 1251.02 1251.58 1251.69 1251.80 1251.99 1252.07 1252.12 1252.69 1253.27 1253.85 1254.43 1255.01 1255.65 1256.23 1256.81 1256.99 1257.11 1257.30 1257.34 1257.90 1258.53 1259.43 1259.83 1260.02 1260.14 1260.18 1260.82 1261.84 1262.86 1263.88 1264.90 1265.92 1266.94 1267.96 1269.00

1250.80 1251.42 1252.03 1252.65 1253.23 1253.81 1254.39 1254.97 1255.61 1256.35 1257.09 1257.66 1258.23 1258.86 1259.77 1260.68 1261.58 1262.60 1263.62 1264.64 1265.66 1266.68 1267.70 1268.72 1269.74

1250.26 1250.88 1251.49 1252.11 1252.69 1253.27 1253.75 1254.23 1254.87 1255.71 1256.45 1256.87 1257.08 1257.28 1257.35 1257.89 1258.53 1259.44 1259.73 1259.90 1260.04 1260.94 1262.38 1263.40 1264.42 1265.44 1266.46 1267.48 1268.50 1269.52

1016+00 1017+00 1018+00 1019+00 1020+00 1021+00

STA 1016+62
CONSTRUCT CE
(ASPHALT)
SAWCUT REQ'D
(45' RT)

STA 1017+43
CONSTRUCT CE
(ASPHALT)
SAWCUT REQ'D
(32.9' RT)

CONSTRUCTION LIMITS
STA 62+62.33
MATCH EXISTING
SAWCUT REQ'D

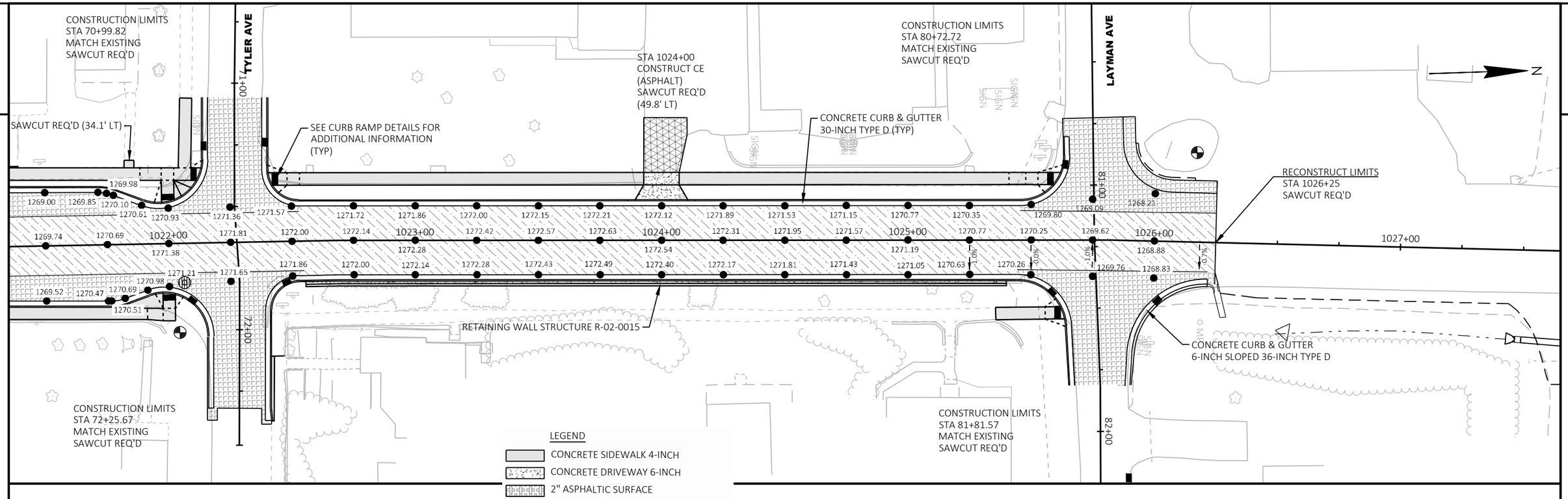
STA 1019+75
CONSTRUCT CE
(ASPHALT)
SAWCUT REQ'D
(32.5' RT)

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	PAVING DETAILS	SHEET 25	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021202-pd

PLOT DATE : 7/25/2022 4:10 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

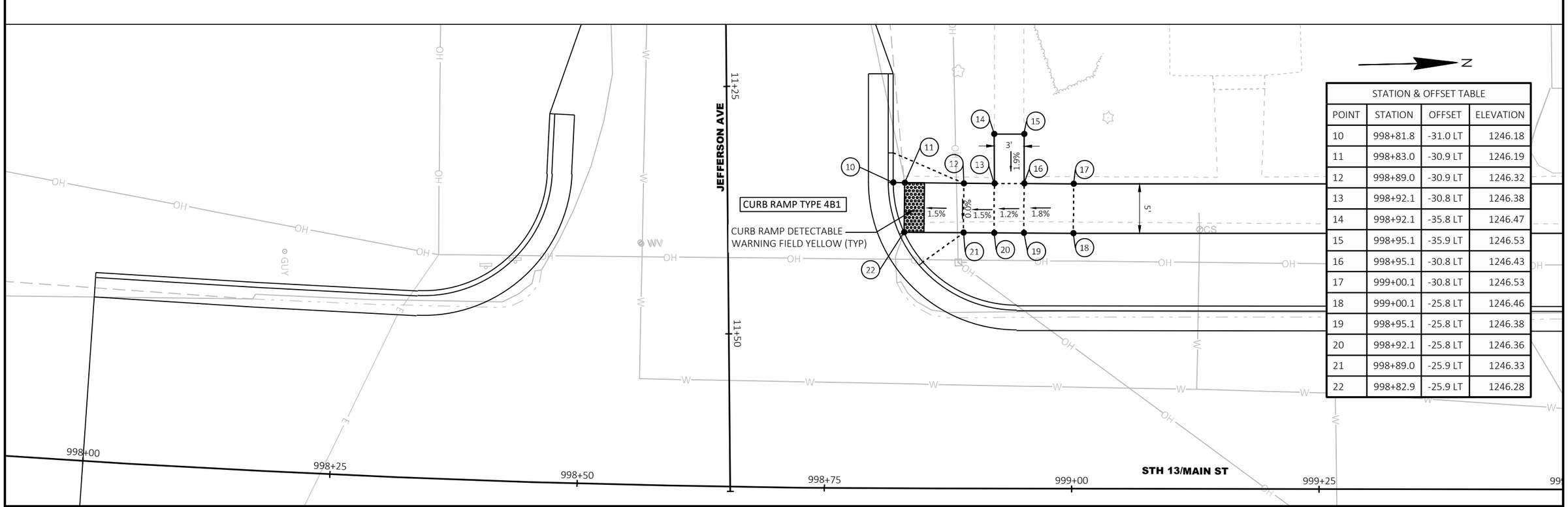


2

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	PAVING DETAILS	SHEET 26	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021203-pd
PLOT DATE : 7/25/2022 4:10 PM
PLOT BY : RESHESKE, CARRIE
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

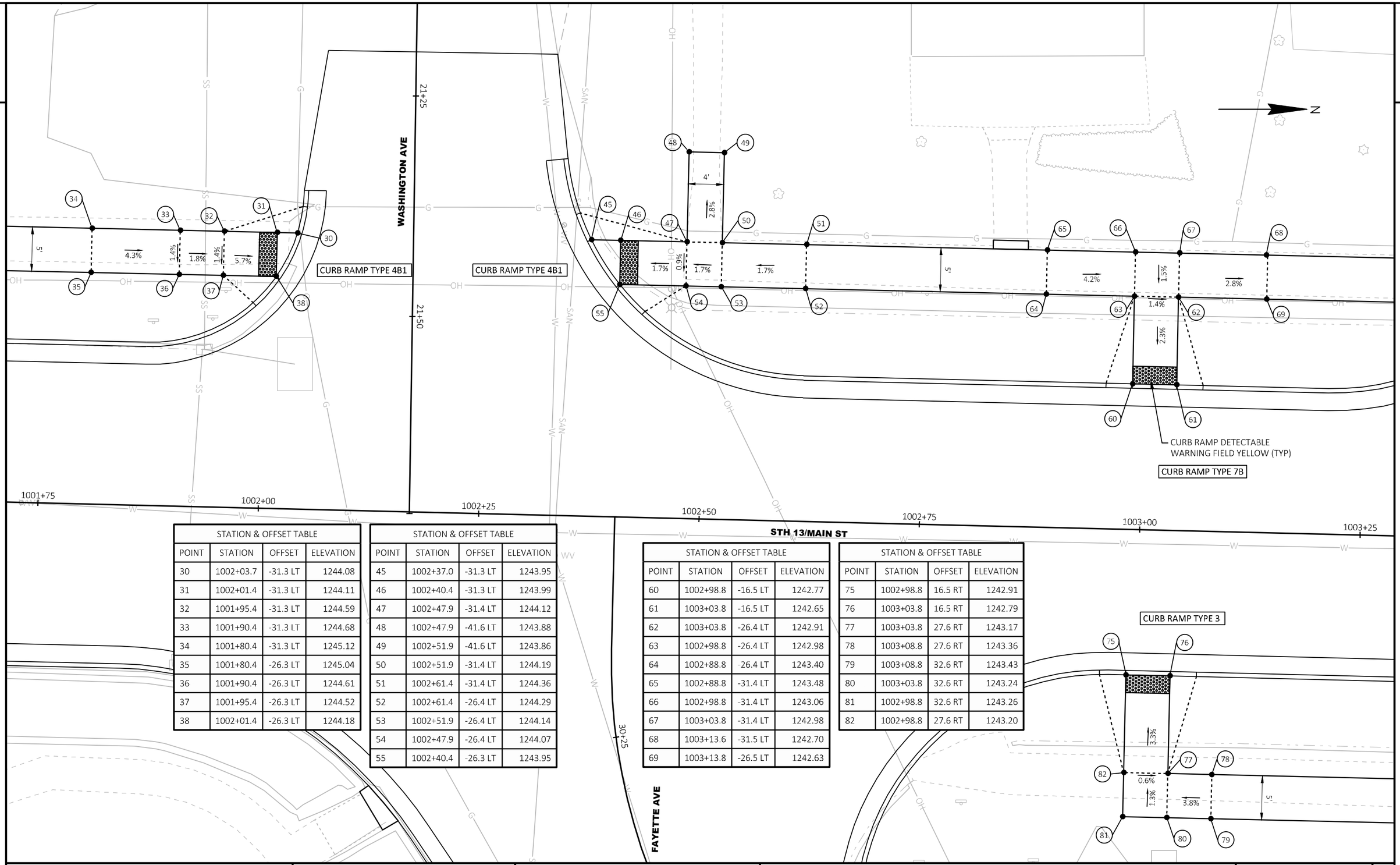
2



STATION & OFFSET TABLE			
POINT	STATION	OFFSET	ELEVATION
10	998+81.8	-31.0 LT	1246.18
11	998+83.0	-30.9 LT	1246.19
12	998+89.0	-30.9 LT	1246.32
13	998+92.1	-30.8 LT	1246.38
14	998+92.1	-35.8 LT	1246.47
15	998+95.1	-35.9 LT	1246.53
16	998+95.1	-30.8 LT	1246.43
17	999+00.1	-30.8 LT	1246.53
18	999+00.1	-25.8 LT	1246.46
19	998+95.1	-25.8 LT	1246.38
20	998+92.1	-25.8 LT	1246.36
21	998+89.0	-25.9 LT	1246.33
22	998+82.9	-25.9 LT	1246.28

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CURB RAMP DETAILS	SHEET 27	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\021301-CR.DWG
LAYOUT NAME - 021301-cr
PLOT DATE : 7/25/2022 4:11 PM
PLOT BY : RESHESKE, CARRIE
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 44



STATION & OFFSET TABLE			
POINT	STATION	OFFSET	ELEVATION
30	1002+03.7	-31.3 LT	1244.08
31	1002+01.4	-31.3 LT	1244.11
32	1001+95.4	-31.3 LT	1244.59
33	1001+90.4	-31.3 LT	1244.68
34	1001+80.4	-31.3 LT	1245.12
35	1001+80.4	-26.3 LT	1245.04
36	1001+90.4	-26.3 LT	1244.61
37	1001+95.4	-26.3 LT	1244.52
38	1002+01.4	-26.3 LT	1244.18

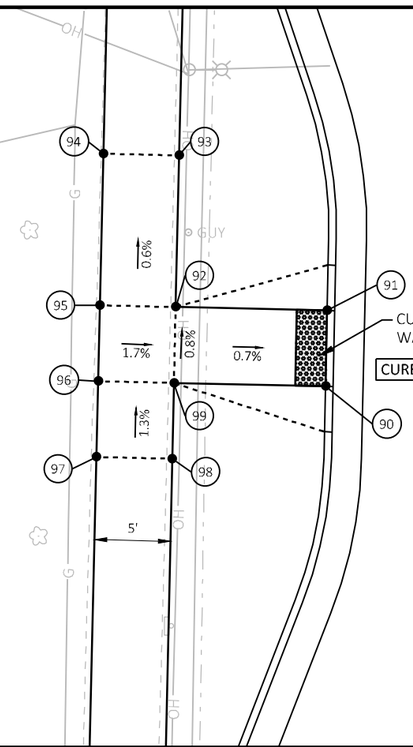
STATION & OFFSET TABLE			
POINT	STATION	OFFSET	ELEVATION
45	1002+37.0	-31.3 LT	1243.95
46	1002+40.4	-31.3 LT	1243.99
47	1002+47.9	-31.4 LT	1244.12
48	1002+47.9	-41.6 LT	1243.88
49	1002+51.9	-41.6 LT	1243.86
50	1002+51.9	-31.4 LT	1244.19
51	1002+61.4	-31.4 LT	1244.36
52	1002+61.4	-26.4 LT	1244.29
53	1002+51.9	-26.4 LT	1244.14
54	1002+47.9	-26.4 LT	1244.07
55	1002+40.4	-26.3 LT	1243.95

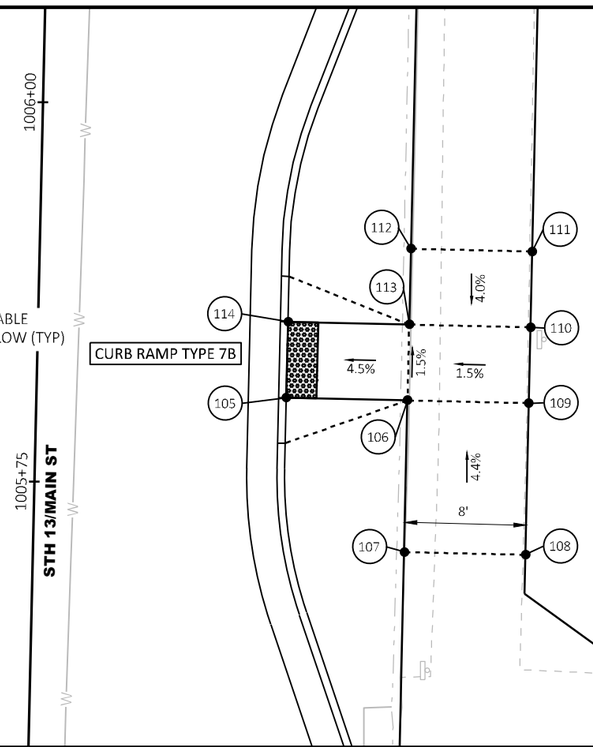
STATION & OFFSET TABLE			
POINT	STATION	OFFSET	ELEVATION
60	1002+98.8	-16.5 LT	1242.77
61	1003+03.8	-16.5 LT	1242.65
62	1003+03.8	-26.4 LT	1242.91
63	1002+98.8	-26.4 LT	1242.98
64	1002+88.8	-26.4 LT	1243.40
65	1002+88.8	-31.4 LT	1243.48
66	1002+98.8	-31.4 LT	1243.06
67	1003+03.8	-31.4 LT	1242.98
68	1003+13.6	-31.5 LT	1242.70
69	1003+13.8	-26.5 LT	1242.63

STATION & OFFSET TABLE			
POINT	STATION	OFFSET	ELEVATION
75	1002+98.8	16.5 RT	1242.91
76	1003+03.8	16.5 RT	1242.79
77	1003+03.8	27.6 RT	1243.17
78	1003+08.8	27.6 RT	1243.36
79	1003+08.8	32.6 RT	1243.43
80	1003+03.8	32.6 RT	1243.24
81	1002+98.8	32.6 RT	1243.26
82	1002+98.8	27.6 RT	1243.20

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CURB RAMP DETAILS	SHEET 28	E

STATION & OFFSET TABLE			
POINT	STATION	OFFSET	ELEVATION
90	1005+80.9	-16.5 LT	1235.99
91	1005+85.9	-16.5 LT	1235.92
92	1005+85.9	-26.5 LT	1236.00
93	1005+95.9	-26.5 LT	1235.95
94	1005+95.9	-31.5 LT	1236.03
95	1005+85.9	-31.5 LT	1236.09
96	1005+80.9	-31.5 LT	1236.11
97	1005+75.9	-31.5 LT	1236.18
98	1005+75.9	-26.5 LT	1236.10
99	1005+80.9	-26.5 LT	1236.04

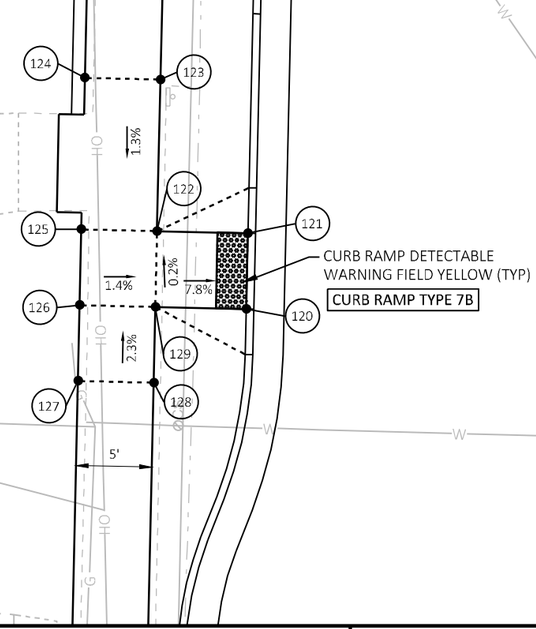


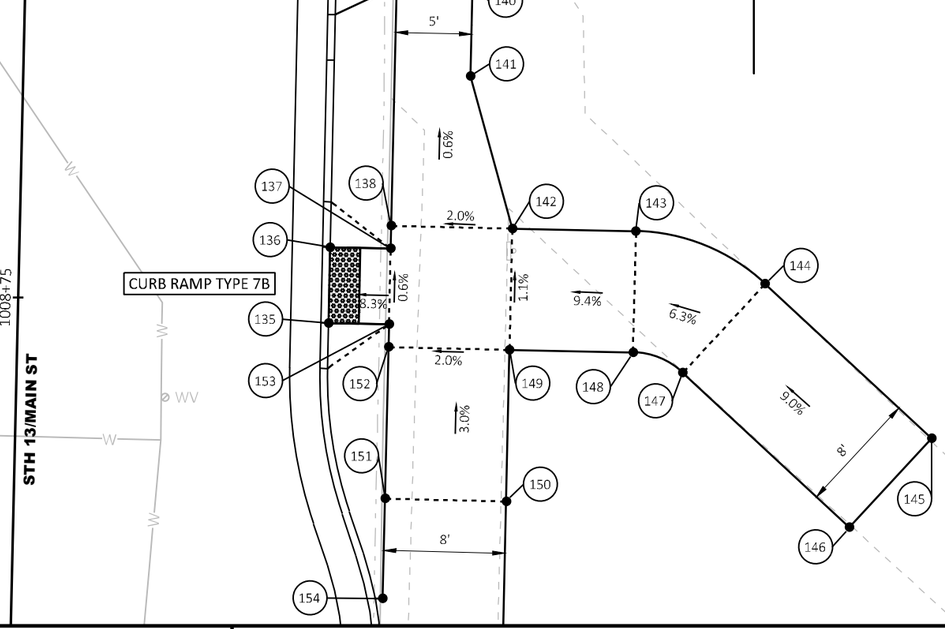


STATION & OFFSET TABLE			
POINT	STATION	OFFSET	ELEVATION
105	1005+80.9	16.5 RT	1236.14
106	1005+80.9	24.5 RT	1236.49
107	1005+70.9	24.5 RT	1236.93
108	1005+70.9	32.5 RT	1237.05
109	1005+80.9	32.5 RT	1236.61
110	1005+85.9	32.5 RT	1236.54
111	1005+90.9	32.5 RT	1236.74
112	1005+90.9	24.5 RT	1236.62
113	1005+85.9	24.5 RT	1236.42
114	1005+85.9	16.5 RT	1236.06

2

STATION & OFFSET TABLE			
POINT	STATION	OFFSET	ELEVATION
120	1008+73.8	-20.5 LT	1229.91
121	1008+78.8	-20.5 LT	1229.89
122	1008+78.8	-26.5 LT	1230.35
123	1008+88.8	-26.5 LT	1230.47
124	1008+88.8	-31.5 LT	1230.55
125	1008+78.8	-31.5 LT	1230.41
126	1008+73.8	-31.5 LT	1230.46
127	1008+68.8	-31.5 LT	1230.57
128	1008+68.8	-26.5 LT	1230.50
129	1008+73.8	-26.5 LT	1230.38

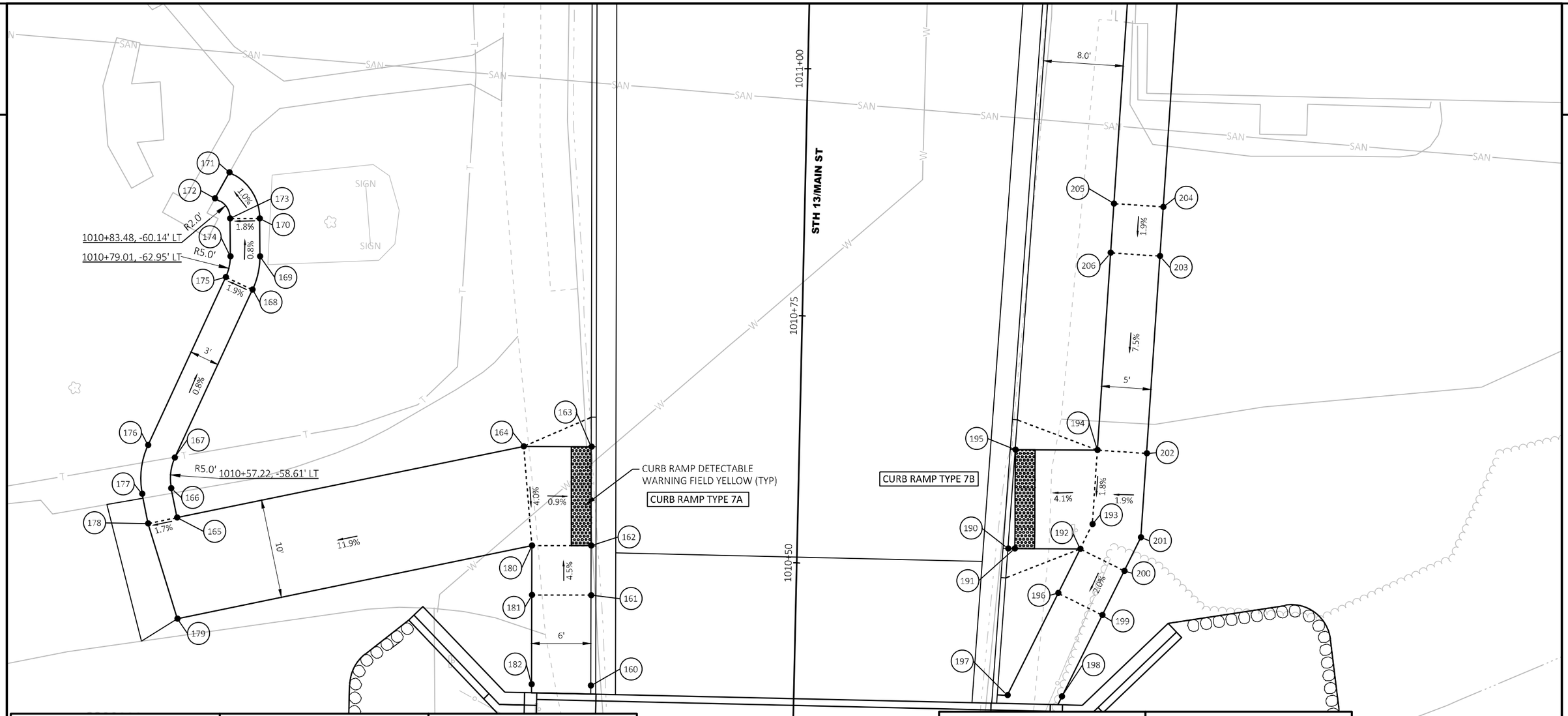




STATION & OFFSET TABLE			
POINT	STATION	OFFSET	ELEVATION
135	1008+73.8	20.5 RT	1229.92
136	1008+78.8	20.5 RT	1229.89
137	1008+78.8	24.5 RT	1230.22
138	1008+80.3	24.5 RT	1230.19
139	1008+96.1	24.5 RT	1230.11
140	1008+96.1	29.5 RT	1230.18
141	1008+90.3	29.5 RT	1230.24
142	1008+80.3	32.5 RT	1230.35
143	1008+80.3	40.6 RT	1231.10
144	1008+77.0	49.3 RT	1231.69
145	1008+67.0	60.5 RT	1233.00
146	1008+61.1	55.2 RT	1232.99
147	1008+71.0	44.0 RT	1231.55
148	1008+72.3	40.6 RT	1231.22
149	1008+72.3	32.5 RT	1230.44
150	1008+62.3	32.5 RT	1230.72
151	1008+62.3	24.5 RT	1230.60
152	1008+72.3	24.5 RT	1230.28
153	1008+73.8	24.5 RT	1230.25
154	1008+55.7	24.5 RT	1230.65

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CURB RAMP DETAILS	SHEET 29	E

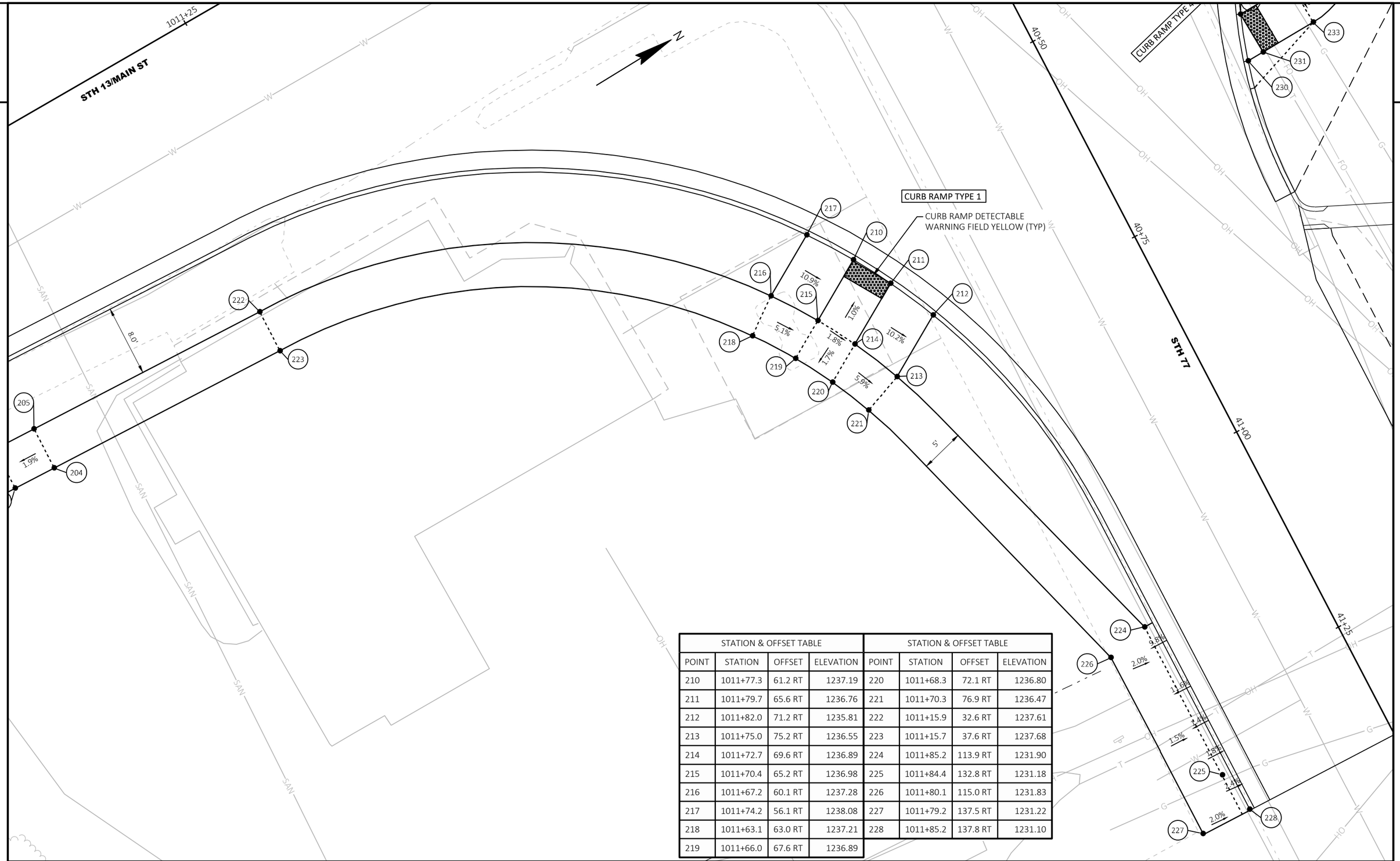
FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\021301-CR.DWG
LAYOUT NAME - 021303-cr
PLOT DATE : 7/25/2022 4:11 PM
PLOT BY : RESHESKE, CARRIE
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 44



STATION & OFFSET TABLE				STATION & OFFSET TABLE				STATION & OFFSET TABLE			
POINT	STATION	OFFSET	ELEVATION	POINT	STATION	OFFSET	ELEVATION	POINT	STATION	OFFSET	ELEVATION
160	1010+37.1	-20.6 LT	1233.85	170	1010+83.6	-55.1 LT	1229.81	180	1010+51.1	-26.8 LT	1234.17
161	1010+46.3	-20.7 LT	1234.28	171	1010+88.2	-58.3 LT	1229.77	181	1010+46.1	-26.7 LT	1234.37
162	1010+51.3	-20.8 LT	1234.05	172	1010+85.5	-59.7 LT	1229.74	182	1010+37.1	-26.6 LT	1233.94
163	1010+61.2	-21.1 LT	1234.53	173	1010+83.5	-58.1 LT	1229.76				
164	1010+61.2	-27.9 LT	1234.56	174	1010+79.7	-58.0 LT	1229.79				
165	1010+53.2	-62.8 LT	1230.05	175	1010+77.6	-58.5 LT	1229.80				
166	1010+56.1	-63.5 LT	1230.03	176	1010+60.4	-65.9 LT	1229.94				
167	1010+59.2	-63.2 LT	1230.00	177	1010+55.5	-66.4 LT	1229.98				
168	1010+76.4	-55.7 LT	1229.86	178	1010+52.5	-65.7 LT	1230.00				
169	1010+79.8	-55.0 LT	1229.84	179	1010+42.9	-62.6 LT	1230.03				

STATION & OFFSET TABLE				STATION & OFFSET TABLE			
POINT	STATION	OFFSET	ELEVATION	POINT	STATION	OFFSET	ELEVATION
190	1010+51.9	21.4 RT	1234.01	200	1010+49.9	33.2 RT	1234.62
191	1010+52.0	22.1 RT	1234.08	201	1010+53.4	34.8 RT	1234.67
192	1010+52.1	28.7 RT	1234.54	202	1010+61.9	35.2 RT	1234.81
193	1010+54.6	29.8 RT	1234.60	203	1010+81.8	36.1 RT	1236.29
194	1010+62.1	30.2 RT	1234.73	204	1010+86.8	36.3 RT	1236.39
195	1010+62.0	21.9 RT	1234.55	205	1010+87.1	31.3 RT	1236.34
196	1010+47.5	26.5 RT	1234.44	206	1010+82.1	31.1 RT	1236.24
197	1010+37.1	21.6 RT	1233.86				
198	1010+37.1	27.2 RT	1233.94				
199	1010+45.4	31.1 RT	1234.52				

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CURB RAMP DETAILS	SHEET 30	E

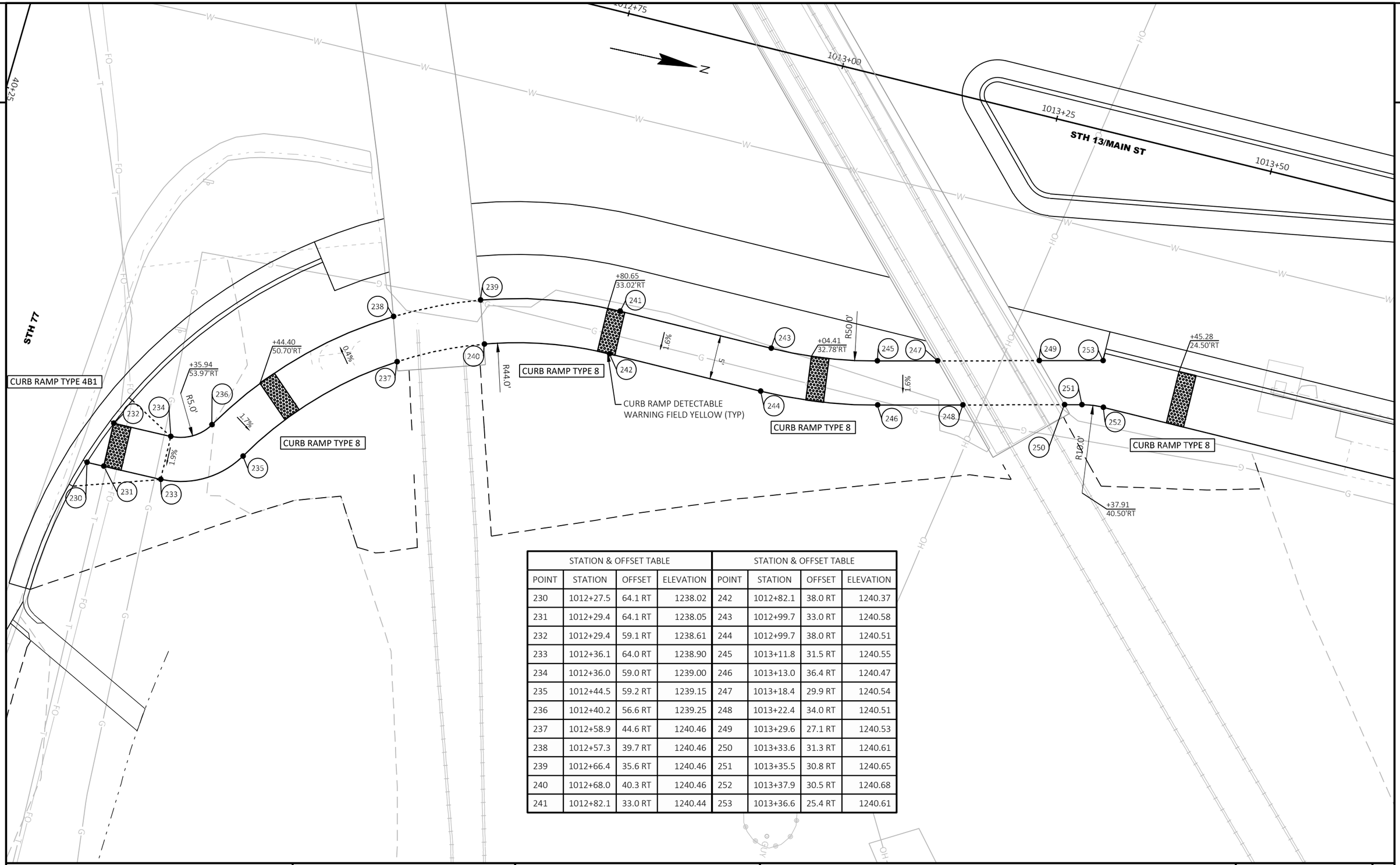


STATION & OFFSET TABLE				STATION & OFFSET TABLE			
POINT	STATION	OFFSET	ELEVATION	POINT	STATION	OFFSET	ELEVATION
210	1011+77.3	61.2 RT	1237.19	220	1011+68.3	72.1 RT	1236.80
211	1011+79.7	65.6 RT	1236.76	221	1011+70.3	76.9 RT	1236.47
212	1011+82.0	71.2 RT	1235.81	222	1011+15.9	32.6 RT	1237.61
213	1011+75.0	75.2 RT	1236.55	223	1011+15.7	37.6 RT	1237.68
214	1011+72.7	69.6 RT	1236.89	224	1011+85.2	113.9 RT	1231.90
215	1011+70.4	65.2 RT	1236.98	225	1011+84.4	132.8 RT	1231.18
216	1011+67.2	60.1 RT	1237.28	226	1011+80.1	115.0 RT	1231.83
217	1011+74.2	56.1 RT	1238.08	227	1011+79.2	137.5 RT	1231.22
218	1011+63.1	63.0 RT	1237.21	228	1011+85.2	137.8 RT	1231.10
219	1011+66.0	67.6 RT	1236.89				

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CURB RAMP DETAILS	SHEET 31	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\021301-CR.DWG
LAYOUT NAME - 021304-cr (2)
PLOT DATE : 7/25/2022 4:11 PM
PLOT BY : RESHESKE, CARRIE
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 44

2



STATION & OFFSET TABLE				STATION & OFFSET TABLE			
POINT	STATION	OFFSET	ELEVATION	POINT	STATION	OFFSET	ELEVATION
230	1012+27.5	64.1 RT	1238.02	242	1012+82.1	38.0 RT	1240.37
231	1012+29.4	64.1 RT	1238.05	243	1012+99.7	33.0 RT	1240.58
232	1012+29.4	59.1 RT	1238.61	244	1012+99.7	38.0 RT	1240.51
233	1012+36.1	64.0 RT	1238.90	245	1013+11.8	31.5 RT	1240.55
234	1012+36.0	59.0 RT	1239.00	246	1013+13.0	36.4 RT	1240.47
235	1012+44.5	59.2 RT	1239.15	247	1013+18.4	29.9 RT	1240.54
236	1012+40.2	56.6 RT	1239.25	248	1013+22.4	34.0 RT	1240.51
237	1012+58.9	44.6 RT	1240.46	249	1013+29.6	27.1 RT	1240.53
238	1012+57.3	39.7 RT	1240.46	250	1013+33.6	31.3 RT	1240.61
239	1012+66.4	35.6 RT	1240.46	251	1013+35.5	30.8 RT	1240.65
240	1012+68.0	40.3 RT	1240.46	252	1013+37.9	30.5 RT	1240.68
241	1012+82.1	33.0 RT	1240.44	253	1013+36.6	25.4 RT	1240.61

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CURB RAMP DETAILS	SHEET 32	E

2

N

STATION & OFFSET TABLE			
POINT	STATION	OFFSET	ELEVATION
260	1014+55.4	-33.9 LT	1248.50
261	1014+55.4	-37.3 LT	1248.55
262	1014+55.4	-41.3 LT	1248.88
263	1014+57.4	-47.3 LT	1249.02
264	1014+58.5	-48.8 LT	1249.06
265	1014+70.0	-64.5 LT	1250.67
266	1014+72.4	-67.7 LT	1250.75
267	1014+72.4	-68.7 LT	1250.77

STATION & OFFSET TABLE			
POINT	STATION	OFFSET	ELEVATION
268	1014+78.8	-68.5 LT	1250.83
269	1014+78.8	-67.9 LT	1250.82
270	1014+74.0	-61.5 LT	1250.60
271	1014+62.5	-45.9 LT	1248.99
272	1014+61.4	-44.3 LT	1248.96
273	1014+60.4	-41.3 LT	1248.90
274	1014+60.4	-37.3 LT	1248.86

STATION & OFFSET TABLE			
POINT	STATION	OFFSET	ELEVATION
280	1014+55.4	24.5 RT	1247.07
281	1014+60.4	24.5 RT	1247.34
282	1014+60.4	30.5 RT	1247.43
283	1014+55.4	30.5 RT	1247.19
284	1014+50.4	30.5 RT	1247.33
285	1014+50.4	24.5 RT	1247.24
286	1014+68.1	30.5 RT	1247.91
287	1014+68.1	24.5 RT	1247.82
288	1014+72.3	24.5 RT	1248.04
289	1014+72.3	30.5 RT	1248.13

CTH GG

STH 13/MAIN ST

51+75

52+00

52+25

1015+25

1015+00

1014+75

1014+50

1014+65.45, -41.38' LT

CURB RAMP TYPE 4B1

CURB RAMP TYPE 7A

CURB RAMP DETECTABLE WARNING FIELD YELLOW (TYP)

CONCRETE CURB PEDESTRIAN

6'

4.4%

2.1%

5'

8.4%

R5.0'

2.0%

0.2%

3.2%

5.2%

8.0%

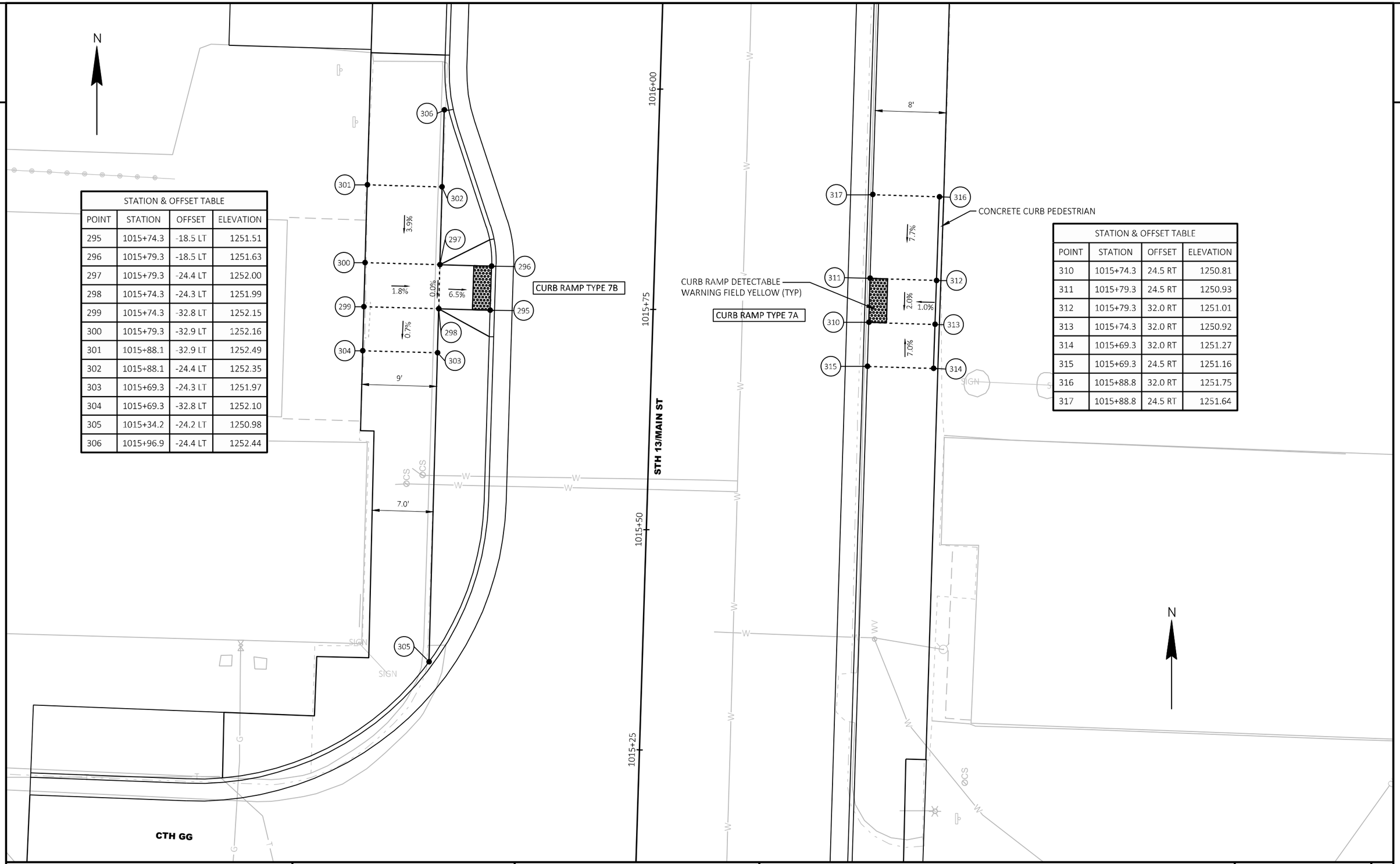
5.0%

1.7%

3.1%

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CURB RAMP DETAILS	SHEET 33	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\021301-CR.DWG
LAYOUT NAME - 021305-cr
PLOT DATE : 7/25/2022 4:11 PM
PLOT BY : RESHESKE, CARRIE
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 44



STATION & OFFSET TABLE			
POINT	STATION	OFFSET	ELEVATION
295	1015+74.3	-18.5 LT	1251.51
296	1015+79.3	-18.5 LT	1251.63
297	1015+79.3	-24.4 LT	1252.00
298	1015+74.3	-24.3 LT	1251.99
299	1015+74.3	-32.8 LT	1252.15
300	1015+79.3	-32.9 LT	1252.16
301	1015+88.1	-32.9 LT	1252.49
302	1015+88.1	-24.4 LT	1252.35
303	1015+69.3	-24.3 LT	1251.97
304	1015+69.3	-32.8 LT	1252.10
305	1015+34.2	-24.2 LT	1250.98
306	1015+96.9	-24.4 LT	1252.44

STATION & OFFSET TABLE			
POINT	STATION	OFFSET	ELEVATION
310	1015+74.3	24.5 RT	1250.81
311	1015+79.3	24.5 RT	1250.93
312	1015+79.3	32.0 RT	1251.01
313	1015+74.3	32.0 RT	1250.92
314	1015+69.3	32.0 RT	1251.27
315	1015+69.3	24.5 RT	1251.16
316	1015+88.8	32.0 RT	1251.75
317	1015+88.8	24.5 RT	1251.64

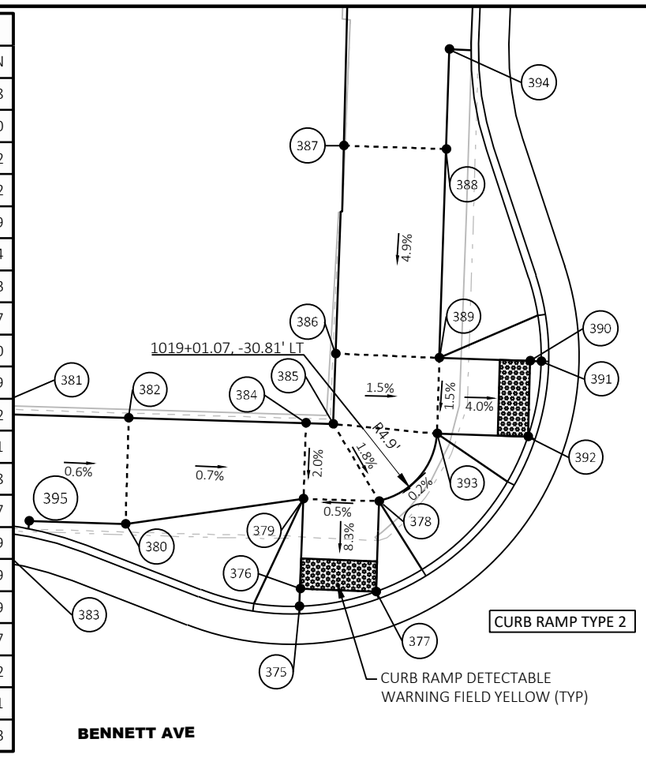
2

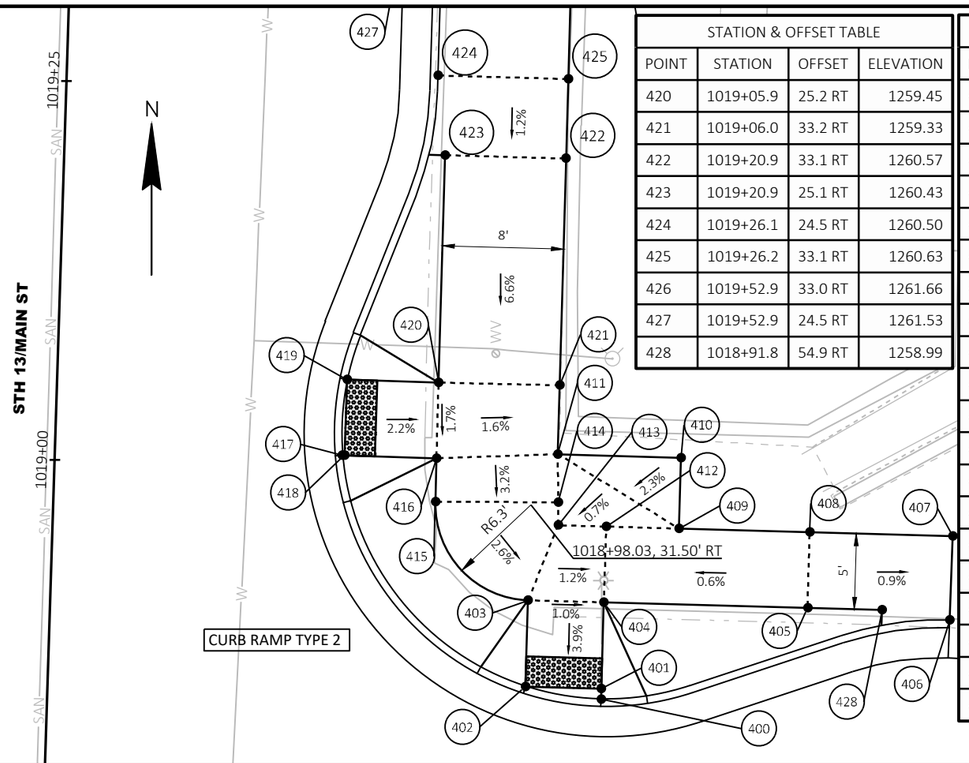
PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CURB RAMP DETAILS	SHEET 34	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\021301-CR.DWG
LAYOUT NAME - 021305-cr (2)
PLOT DATE : 7/25/2022 4:11 PM
PLOT BY : RESHESKE, CARRIE
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 44

2

STATION & OFFSET TABLE			
POINT	STATION	OFFSET	ELEVATION
375	1018+89.3	-34.7 LT	1259.18
376	1018+90.4	-34.7 LT	1259.20
377	1018+90.4	-29.7 LT	1259.22
378	1018+96.4	-29.6 LT	1259.72
379	1018+96.4	-34.6 LT	1259.69
380	1018+94.3	-46.3 LT	1259.74
381	1019+01.3	-56.3 LT	1259.93
382	1019+01.3	-46.3 LT	1259.87
383	1018+94.1	-56.3 LT	1259.60
384	1019+01.4	-34.6 LT	1259.79
385	1019+01.4	-32.8 LT	1259.82
386	1019+06.0	-32.8 LT	1259.91
387	1019+19.7	-32.7 LT	1260.58
388	1019+19.7	-25.9 LT	1260.47
389	1019+05.9	-26.0 LT	1259.79
390	1019+05.9	-20.0 LT	1259.59
391	1019+05.9	-19.2 LT	1259.59
392	1019+00.9	-20.0 LT	1259.37
393	1019+00.9	-26.0 LT	1259.72
394	1019+26.3	-25.9 LT	1260.61
395	1018+94.3	-52.7 LT	1259.73

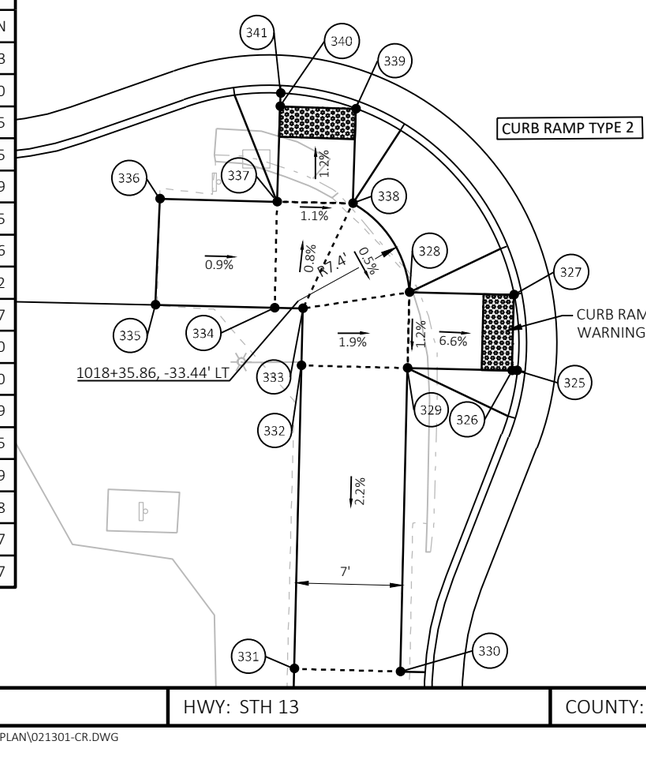


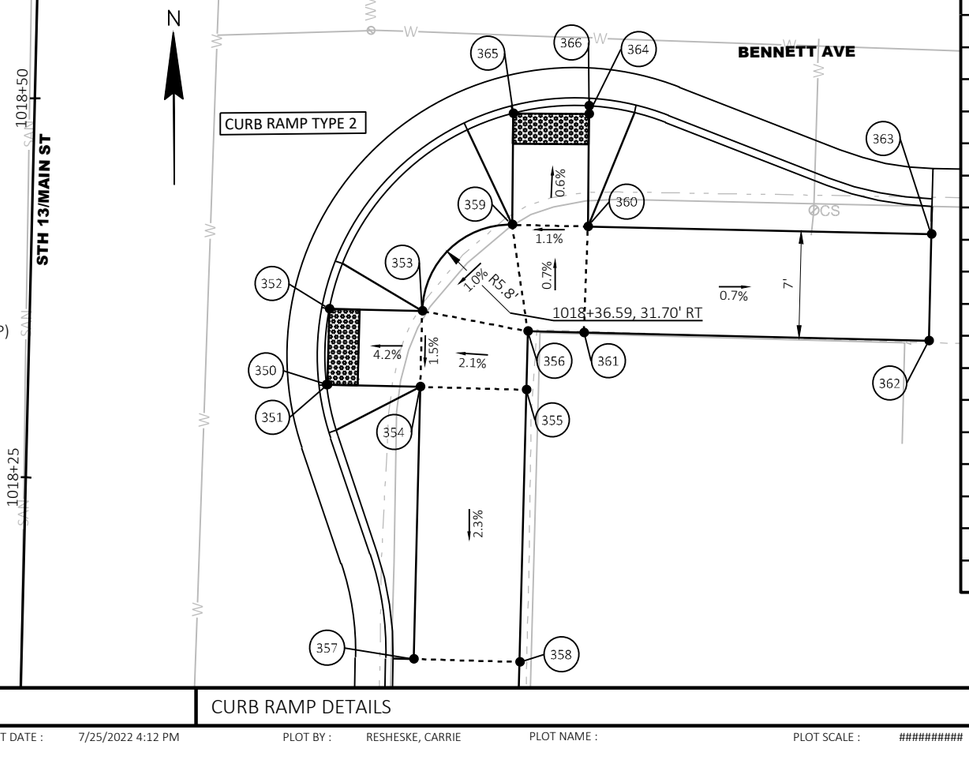


STATION & OFFSET TABLE			
POINT	STATION	OFFSET	ELEVATION
420	1019+05.9	25.2 RT	1259.45
421	1019+06.0	33.2 RT	1259.33
422	1019+20.9	33.1 RT	1260.57
423	1019+20.9	25.1 RT	1260.43
424	1019+26.1	24.5 RT	1260.50
425	1019+26.2	33.1 RT	1260.63
426	1019+52.9	33.0 RT	1261.66
427	1019+52.9	24.5 RT	1261.53
428	1018+91.8	54.9 RT	1258.99

STATION & OFFSET TABLE			
POINT	STATION	OFFSET	ELEVATION
400	1018+85.4	36.5 RT	1258.76
401	1018+86.0	36.5 RT	1258.77
402	1018+86.0	31.5 RT	1258.79
403	1018+91.7	31.5 RT	1259.03
404	1018+91.7	36.5 RT	1258.98
405	1018+91.8	50.0 RT	1259.06
406	1018+91.3	59.4 RT	1258.92
407	1018+96.8	59.4 RT	1259.07
408	1018+96.8	49.9 RT	1259.11
409	1018+96.8	41.3 RT	1259.05
410	1019+01.4	41.3 RT	1259.22
411	1019+01.4	33.2 RT	1259.22
412	1018+96.7	36.5 RT	1259.07
413	1018+96.7	33.3 RT	1259.13
414	1018+98.2	33.3 RT	1259.16
415	1018+98.0	25.2 RT	1259.25
416	1019+00.9	25.2 RT	1259.37
417	1019+00.9	19.0 RT	1259.41
418	1019+00.9	19.1 RT	1259.41
419	1019+05.9	19.1 RT	1259.59

STATION & OFFSET TABLE			
POINT	STATION	OFFSET	ELEVATION
325	1018+31.6	-18.9 LT	1257.43
326	1018+31.6	-19.2 LT	1257.40
327	1018+36.6	-19.2 LT	1257.55
328	1018+36.6	-26.1 LT	1257.95
329	1018+31.6	-26.1 LT	1257.89
330	1018+11.6	-26.1 LT	1257.45
331	1018+11.6	-33.1 LT	1257.56
332	1018+31.6	-33.1 LT	1258.02
333	1018+35.4	-33.1 LT	1258.07
334	1018+35.4	-35.0 LT	1258.10
335	1018+35.3	-42.9 LT	1258.20
336	1018+42.3	-42.7 LT	1258.09
337	1018+42.4	-35.0 LT	1258.05
338	1018+42.4	-30.0 LT	1257.99
339	1018+48.6	-30.0 LT	1257.88
340	1018+48.6	-35.0 LT	1257.97
341	1018+49.5	-35.0 LT	1257.97





STATION & OFFSET TABLE			
POINT	STATION	OFFSET	ELEVATION
350	1018+31.6	19.7 RT	1257.41
351	1018+31.6	19.7 RT	1257.41
352	1018+36.6	19.7 RT	1257.54
353	1018+36.6	25.9 RT	1257.80
354	1018+31.6	25.9 RT	1257.72
355	1018+31.6	32.9 RT	1257.85
356	1018+35.4	32.9 RT	1257.93
357	1018+13.6	25.9 RT	1257.31
358	1018+13.6	32.9 RT	1257.41
359	1018+42.4	31.7 RT	1257.88
360	1018+42.4	36.7 RT	1257.93
361	1018+35.4	36.6 RT	1257.99
362	1018+35.4	59.3 RT	1257.84
363	1018+42.4	59.3 RT	1257.73
364	1018+49.8	36.6 RT	1257.88
365	1018+49.8	31.6 RT	1257.84
366	1018+50.4	36.6 RT	1257.87

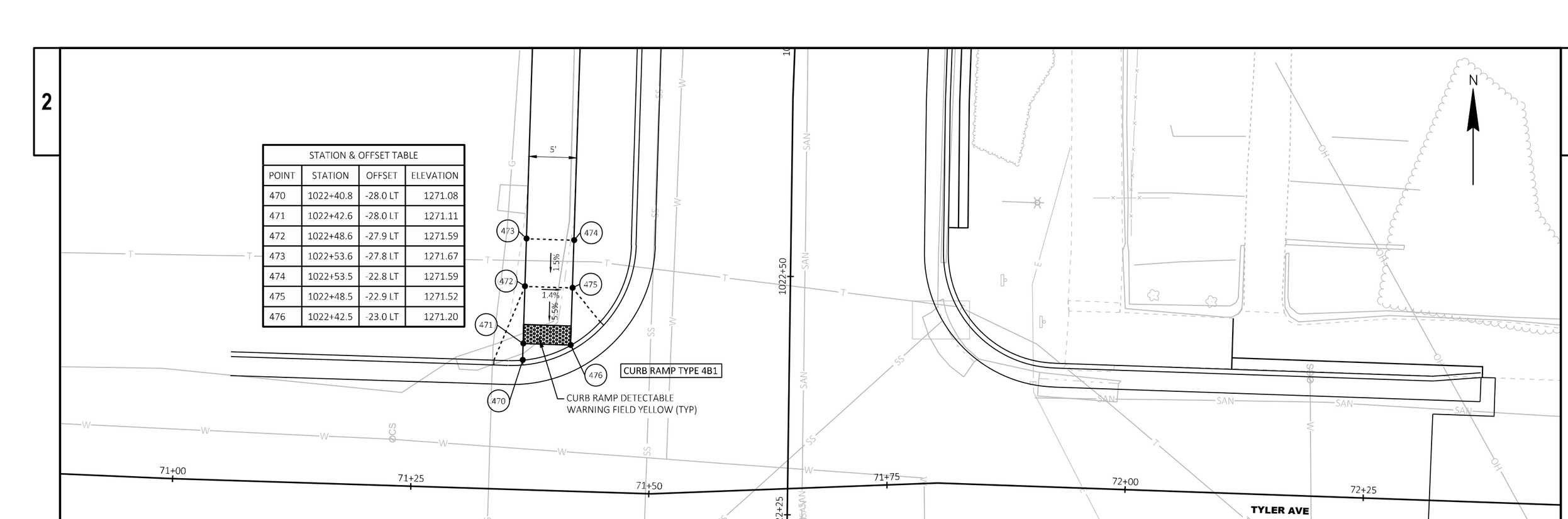
PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CURB RAMP DETAILS	SHEET 35	E

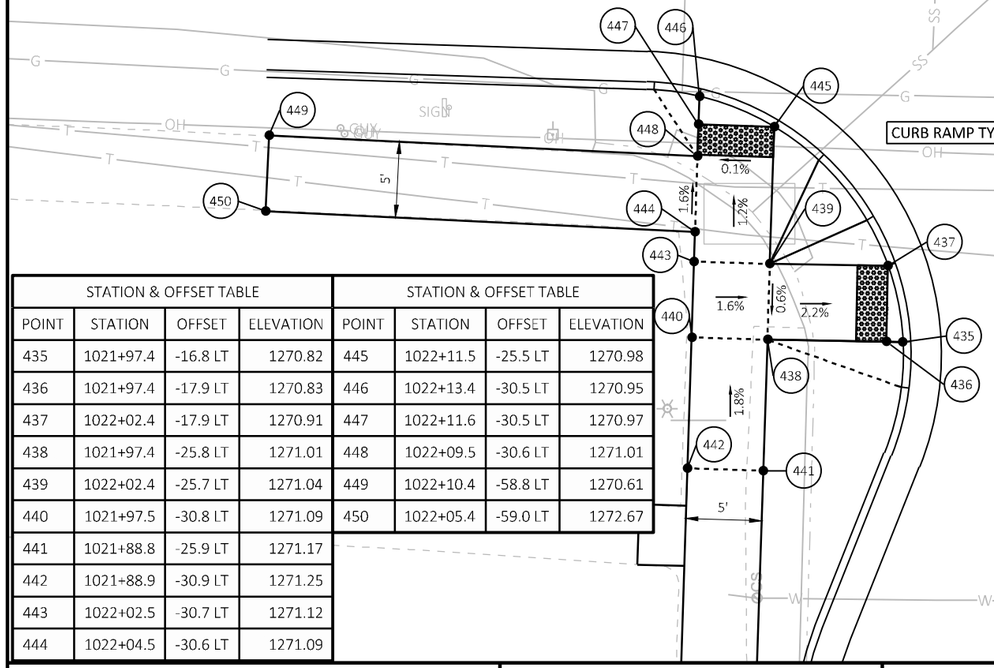
FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\021301-CR.DWG
LAYOUT NAME - 021306-cr
PLOT DATE : 7/25/2022 4:12 PM
PLOT BY : RESHESKE, CARRIE
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 44

2

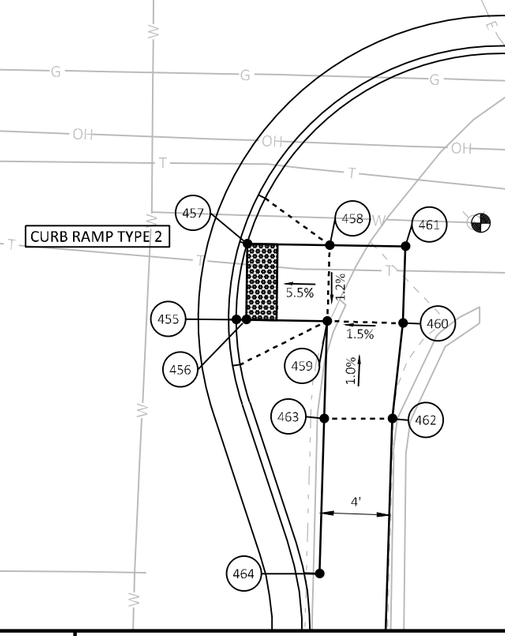
STATION & OFFSET TABLE			
POINT	STATION	OFFSET	ELEVATION
470	1022+40.8	-28.0 LT	1271.08
471	1022+42.6	-28.0 LT	1271.11
472	1022+48.6	-27.9 LT	1271.59
473	1022+53.6	-27.8 LT	1271.67
474	1022+53.5	-22.8 LT	1271.59
475	1022+48.5	-22.9 LT	1271.52
476	1022+42.5	-23.0 LT	1271.20

CURB RAMP TYPE 4B1





STATION & OFFSET TABLE				STATION & OFFSET TABLE			
POINT	STATION	OFFSET	ELEVATION	POINT	STATION	OFFSET	ELEVATION
435	1021+97.4	-16.8 LT	1270.82	445	1022+11.5	-25.5 LT	1270.98
436	1021+97.4	-17.9 LT	1270.83	446	1022+13.4	-30.5 LT	1270.95
437	1022+02.4	-17.9 LT	1270.91	447	1022+11.6	-30.5 LT	1270.97
438	1021+97.4	-25.8 LT	1271.01	448	1022+09.5	-30.6 LT	1271.01
439	1022+02.4	-25.7 LT	1271.04	449	1022+10.4	-58.8 LT	1270.61
440	1021+97.5	-30.8 LT	1271.09	450	1022+05.4	-59.0 LT	1272.67
441	1021+88.8	-25.9 LT	1271.17				
442	1021+88.9	-30.9 LT	1271.25				
443	1022+02.5	-30.7 LT	1271.12				
444	1022+04.5	-30.6 LT	1271.09				



STATION & OFFSET TABLE			
POINT	STATION	OFFSET	ELEVATION
455	1021+97.3	20.2 RT	1271.09
456	1021+97.3	20.9 RT	1271.10
457	1022+02.3	20.9 RT	1271.17
458	1022+02.3	26.3 RT	1271.47
459	1021+97.3	26.2 RT	1271.40
460	1021+97.2	31.2 RT	1271.48
461	1022+02.3	31.3 RT	1271.55
462	1021+90.9	30.6 RT	1271.53
463	1021+90.8	26.1 RT	1271.46
464	1021+80.6	25.9 RT	1271.08

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CURB RAMP DETAILS	SHEET 36	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\021301-CR.DWG
LAYOUT NAME - 021307-cr
PLOT DATE : 7/25/2022 4:12 PM
PLOT BY : RESHESKE, CARRIE
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 44

2

LAYMAN AVE

STH 13/MAIN ST

CURB RAMP DETECTABLE WARNING FIELD YELLOW (TYP)

CURB RAMP TYPE 4B1

STATION & OFFSET TABLE			
POINT	STATION	OFFSET	ELEVATION
480	1025+61.9	-27.5 LT	1269.24
481	1025+58.9	-27.5 LT	1269.27
482	1025+52.9	-27.5 LT	1269.72
483	1025+41.0	-27.5 LT	1270.29
484	1025+41.0	-22.5 LT	1270.21
485	1025+52.9	-22.5 LT	1269.64
486	1025+58.9	-22.5 LT	1269.32
487	1025+47.9	-27.5 LT	1269.81
488	1025+47.9	-22.5 LT	1269.73

CURB RAMP TYPE 4B1

STATION & OFFSET TABLE			
POINT	STATION	OFFSET	ELEVATION
490	1025+63.5	31.9 RT	1270.20
491	1025+61.7	27.0 RT	1270.16
492	1025+55.7	27.1 RT	1270.57
493	1025+35.6	27.3 RT	1273.58
494	1025+35.7	32.3 RT	1273.86
495	1025+55.8	32.0 RT	1270.64
496	1025+61.8	32.0 RT	1270.22

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CURB RAMP DETAILS	SHEET 37	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\021301-CR.DWG
LAYOUT NAME - 021308-cr
PLOT DATE : 7/25/2022 4:12 PM
PLOT BY : RESHESKE, CARRIE
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 44

2

JEFFERSON AVE

WASHINGTON AVE

SLOPE INTERCEPT (TYP)

998+00 999+00 1000+00 1001+00 1002+00 1003+00

STH 13

FAYETTE AVE

LEGEND

- EROSION MAT URBAN CL.I TYPE A
- EROSION MAT CL.II TYPE B
- RIPRAP LIGHT
- INLET PROTECTION TYPES A & C (UNLESS OTHERWISE NOTED)
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- SILT FENCE
- TURBIDITY BARRIER
- WATER FLOW ARROW

1004+00 1005+00 1006+00 1007+00 1008+00 1009+00

STH 13

SLOPE INTERCEPT (TYP)

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	EROSION CONTROL	SHEET 38	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022001-ec

PLOT DATE : 7/25/2022 4:12 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

2

SLOPE INTERCEPT (TYP)

CTH GG

52+00

1010+00 1011+00 1012+00 1013+00 1014+00 1015+00

STH 13

BAD RIVER

NOTE:
SEE THE "SILT FENCE TURN-AROUND DETAIL" FOR THE SILT FENCE ON BOTH SIDES OF THE STRUCTURE.

STH 77

41+00

BENNETT AVE

LEGEND

- EROSION MAT URBAN CL.I TYPE A
- EROSION MAT CL.II TYPE B
- RIPRAP LIGHT
- INLET PROTECTION TYPES A & C (UNLESS OTHERWISE NOTED)
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- SILT FENCE
- TURBIDITY BARRIER
- WATER FLOW ARROW

N

SLOPE INTERCEPT (TYP)

1016+00 1017+00 1018+00 1019+00 1020+00 1021+00

STH 13

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	EROSION CONTROL	SHEET 39	E

2

TYLER AVE

LAYMAN AVE

SLOPE INTERCEPT (TYP)

1022+00 1023+00 1024+00 1025+00 1026+00 1027+00

STH 13

N

LEGEND

- EROSION MAT URBAN CL.I TYPE A
- EROSION MAT CL.II TYPE B
- RIPRAP LIGHT
- INLET PROTECTION TYPES A & C (UNLESS OTHERWISE NOTED)
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- SILT FENCE
- TURBIDITY BARRIER
- WATER FLOW ARROW

CRESTVIEW LN

1028+00 1029+00 1030+00 1031+00 1032+00 1033+00

STH 13

SLOPE INTERCEPT (TYP)

LINCOLN AVE

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	EROSION CONTROL	SHEET 40	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022003-ec

PLOT DATE : 7/27/2022 8:54 AM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

JEFFERSON AVE

11+00

998+00

999+00

1000+00

1001+00

STA 1001+86, 17.3' LT
CATCH BASINS 2x3-H
A6.1

1002+00

STA 1002+00, 20.5' RT
CATCH BASINS 4-H
A6

STH 13/STH 77/MAIN ST

WASHINGTON AVE

21+00

1003+00

1004+00

N

Proposed Storm Sewer Invert: 1239.28
Proposed Sanitary Sewer Crown: 1238.81

A5
STA 1002+81, 20.1' RT
CATCH BASINS 4-H

FAYETTE AVE

31+00

1255
1250
1245
1240
1235
1230
1225
1220

125
125
124
124
123
123
122
122

A6

1244.74

1239.96

1.09'

12" SAN
INV: 1237.64

A5

1243.28

SSPRCHE CLASS HE-IV 19X30-INCH @ 0.57%

1239.50

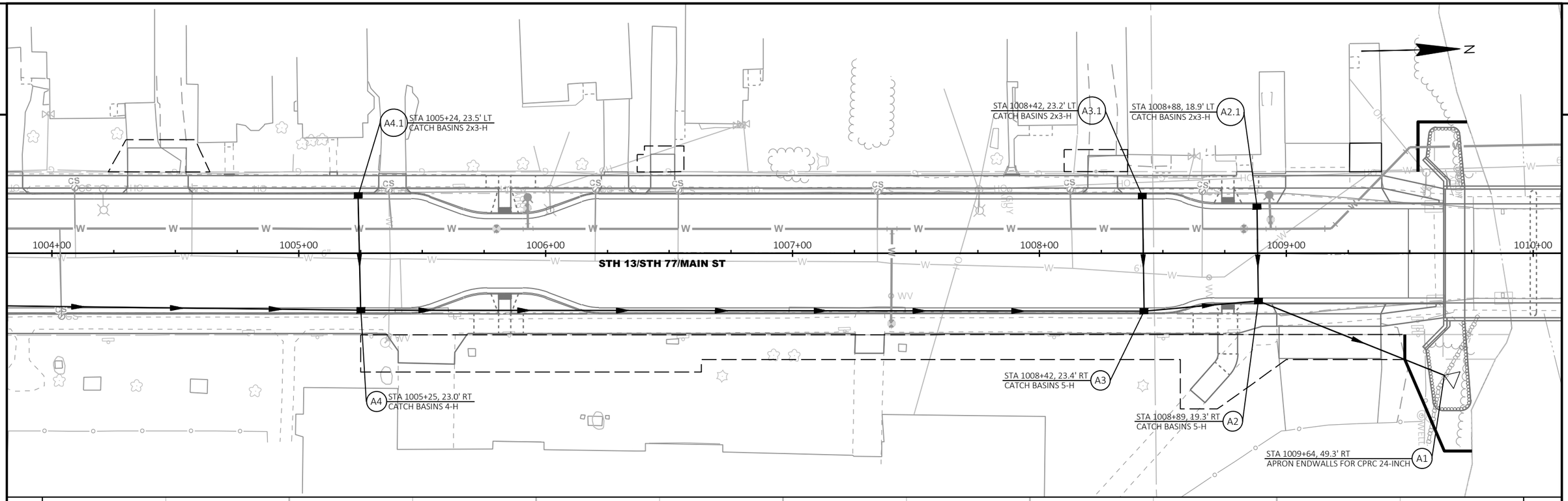
SSPRC CLASS III 24-INCH @ 2.50%

1236.91

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	STORM SEWER	SHEET 41	E

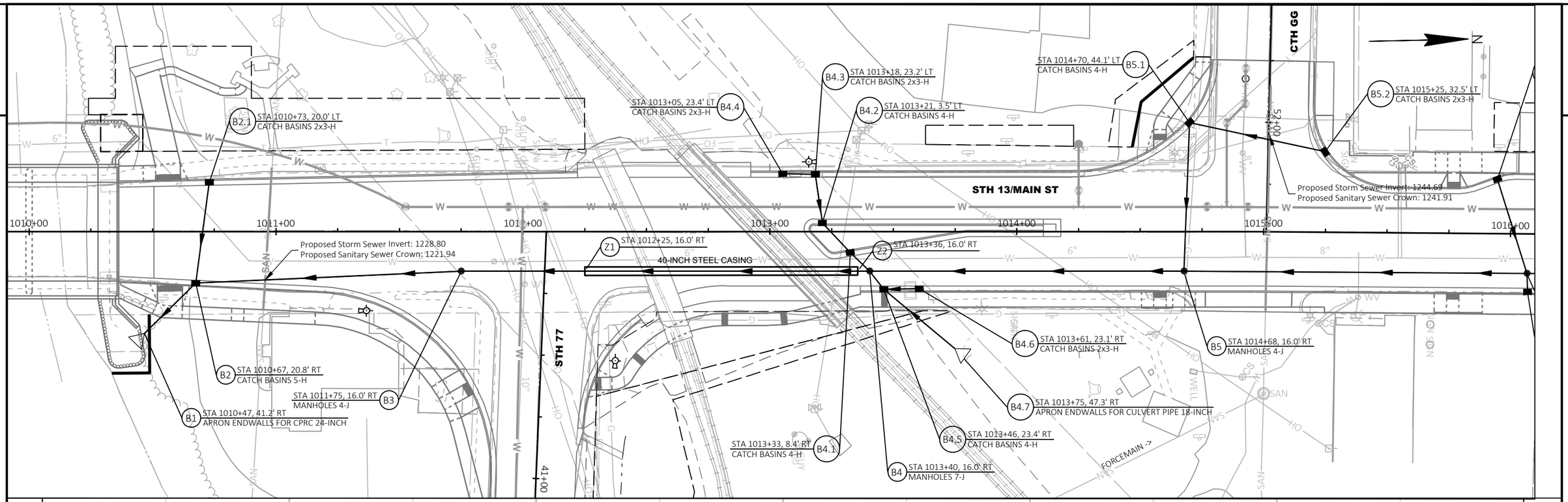
FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - SS01

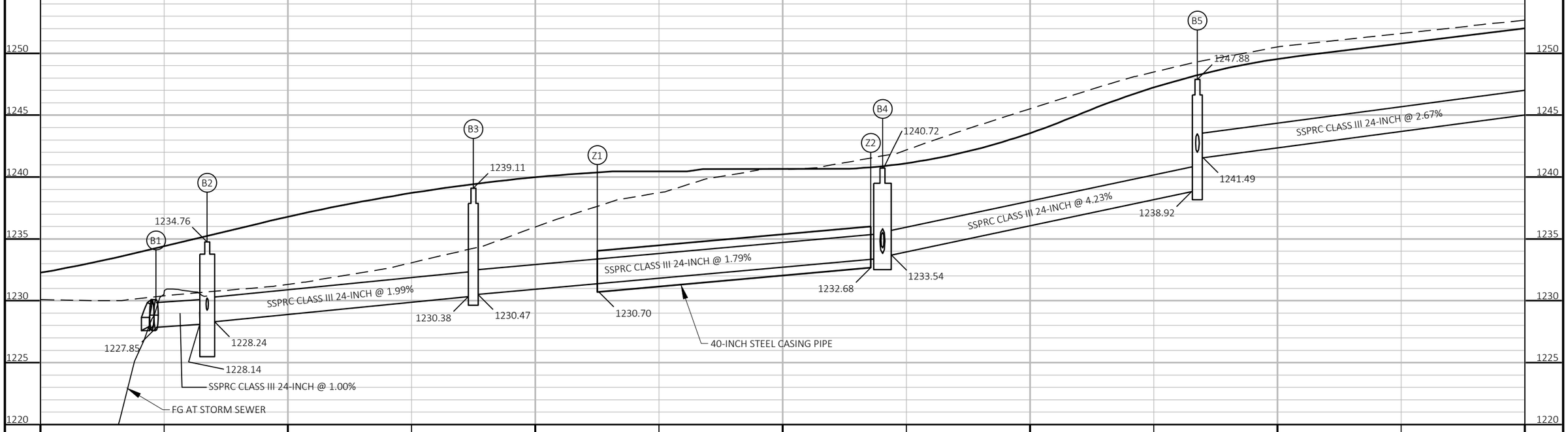
PLOT DATE : 10/17/2022 11:47 AM PLOT BY : AYRES PLOT NAME : PLOT SCALE : 1 IN:40 FT



PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	STORM SEWER	SHEET 42	E

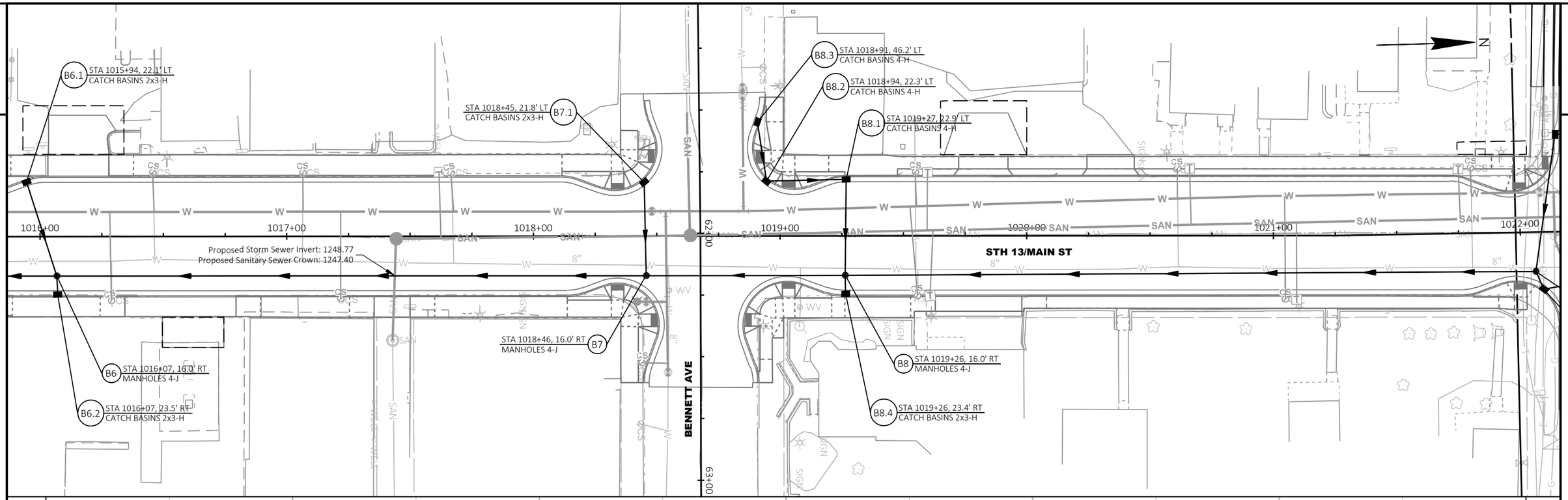
FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - SS02
PLOT DATE : 10/17/2022 11:47 AM
PLOT BY : AYRES
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42





PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	STORM SEWER	SHEET 43	E

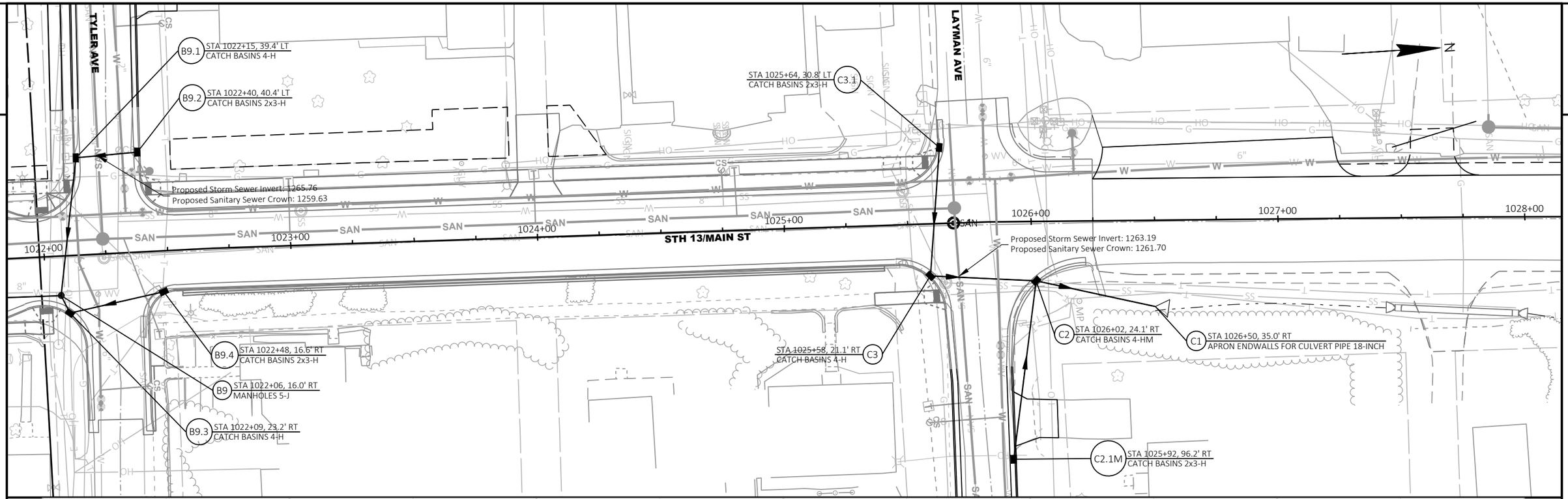
FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - SS03
PLOT DATE : 10/17/2022 11:48 AM
PLOT BY : AYRES
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

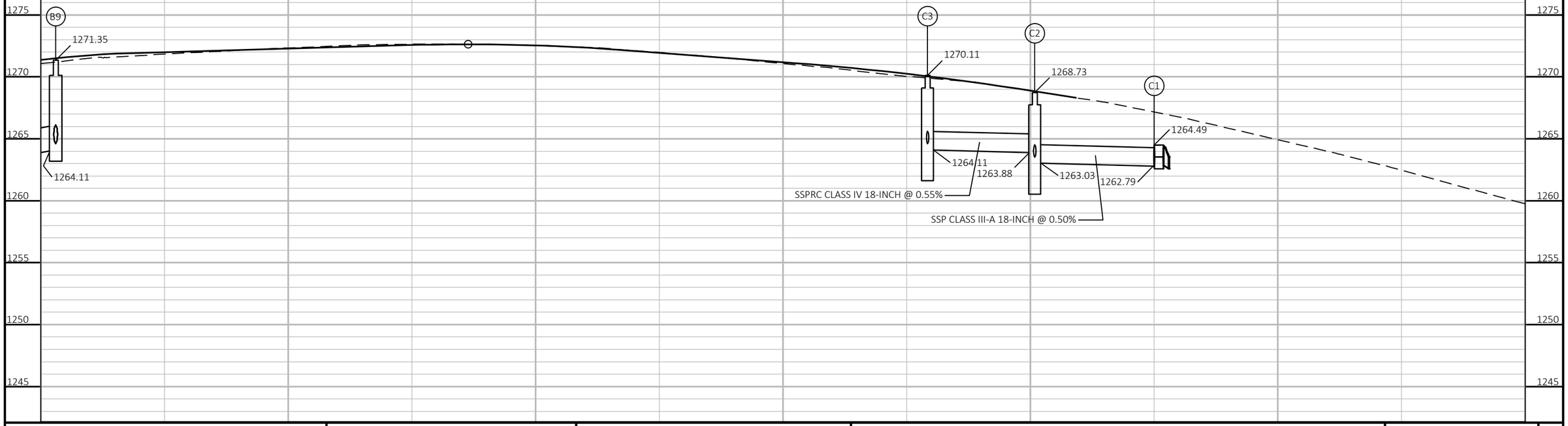


PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	STORM SEWER	SHEET 44	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - SS04

PLOT DATE : 10/17/2022 11:48 AM PLOT BY : AYRES PLOT NAME : PLOT SCALE : 1 IN:40 FT

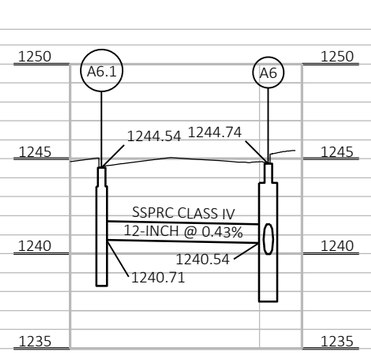


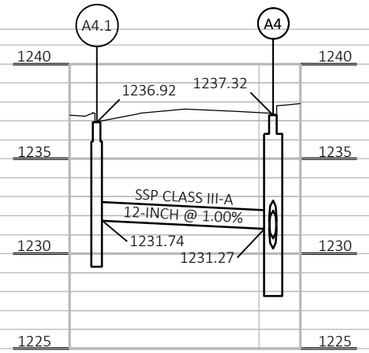


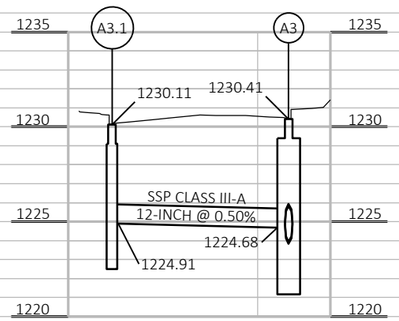
PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	STORM SEWER	SHEET 45	E

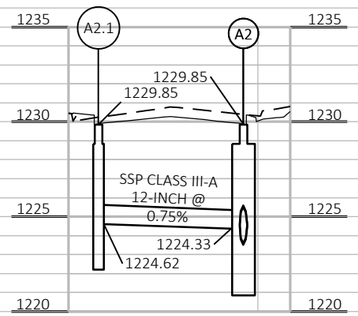
FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - SS05

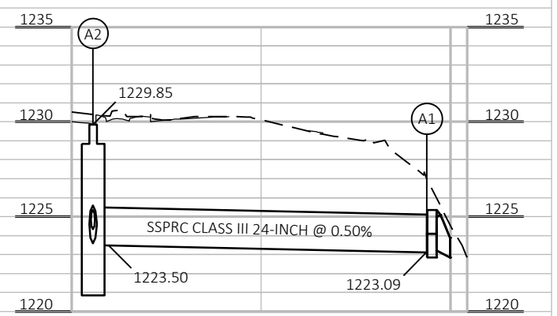
PLOT DATE : 10/17/2022 11:48 AM PLOT BY : AYRES PLOT NAME : PLOT SCALE : 1 IN:40 FT

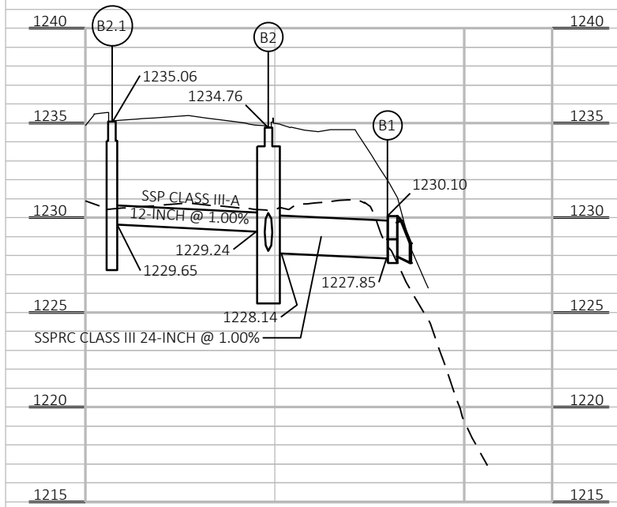

A6.1
A6
1244.54
1244.74
SSPRC CLASS IV
12-INCH @ 0.43%
1240.54
1240.71

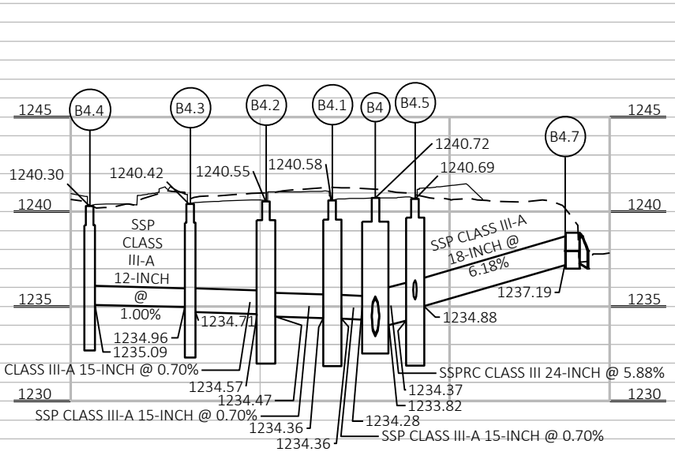

A4.1
A4
1236.92
1237.32
SSP CLASS III-A
12-INCH @ 1.00%
1231.74
1231.27

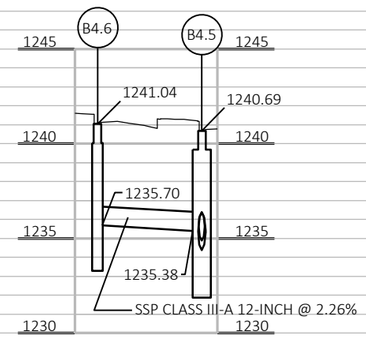

A3.1
A3
1230.11
1230.41
SSP CLASS III-A
12-INCH @ 0.50%
1224.68
1224.91

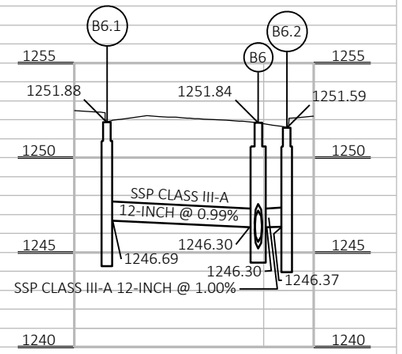

A2.1
A2
1229.85
1229.85
SSP CLASS III-A
12-INCH @
0.75%
1224.33
1224.62

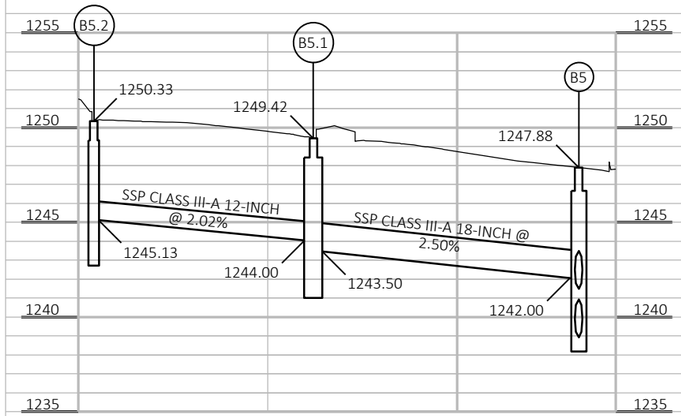

A2
A1
1229.85
SSPRC CLASS III 24-INCH @ 0.50%
1223.50
1223.09

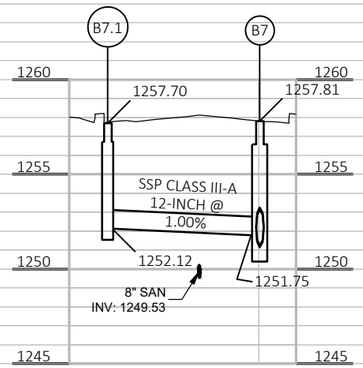

B2.1
B2
B1
1235.06
1234.76
1230.10
SSP CLASS III-A
12-INCH @ 1.00%
1229.24
1229.65
1227.85
1228.14
SSPRC CLASS III 24-INCH @ 1.00%

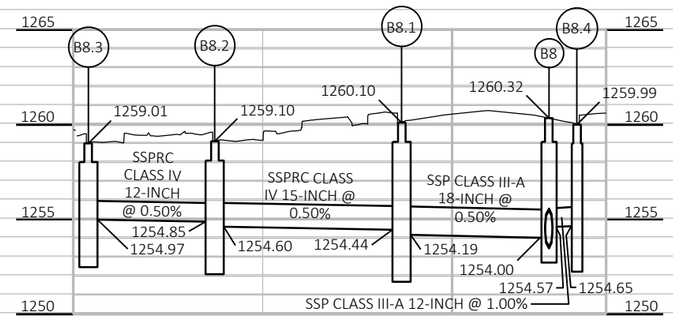

B4.4
B4.3
B4.2
B4.1
B4
B4.5
B4.7
1240.30
1240.42
1240.55
1240.58
1240.72
1240.69
SSP
CLASS
III-A
12-INCH
@
1.00%
SSP CLASS III-A
18-INCH @
6.18%
1237.19
1234.88
1234.71
1234.96
1235.09
SSP CLASS III-A 15-INCH @ 0.70%
SSPRC CLASS III 24-INCH @ 5.88%
1234.57
1234.47
1234.37
1233.82
SSP CLASS III-A 15-INCH @ 0.70%
1234.36
1234.28
1234.36
SSP CLASS III-A 15-INCH @ 0.70%

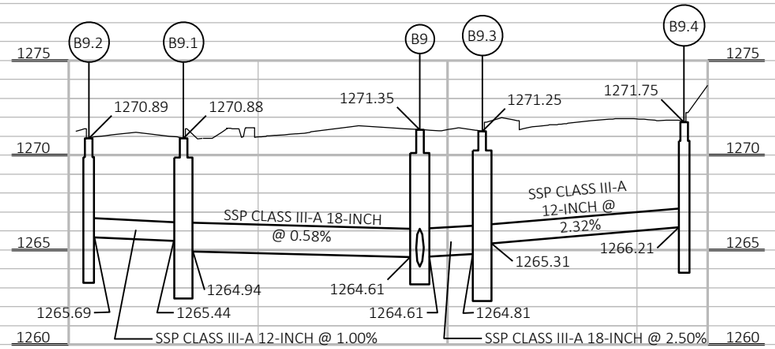

B4.6
B4.5
1241.04
1240.69
1235.70
1235.38
SSP CLASS III-A 12-INCH @ 2.26%

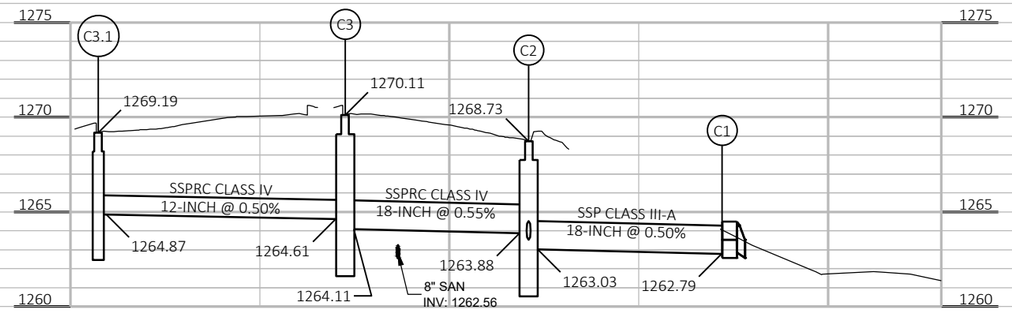

B6.1
B6
B6.2
1251.88
1251.84
1251.59
SSP CLASS III-A
12-INCH @ 0.99%
1246.69
1246.30
1246.30
1246.37
SSP CLASS III-A 12-INCH @ 1.00%

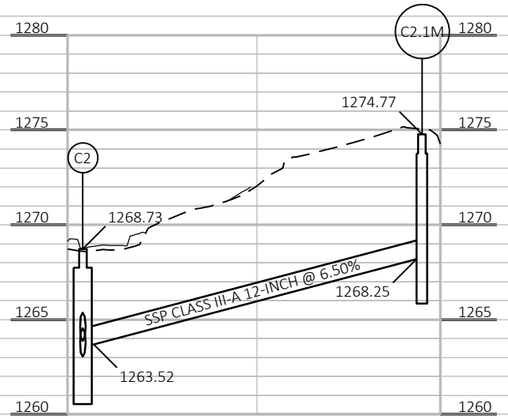

B5.2
B5.1
B5
1250.33
1249.42
1247.88
SSP CLASS III-A 12-INCH
@ 2.02%
SSP CLASS III-A 18-INCH @
2.50%
1245.13
1244.00
1243.50
1242.00


B7.1
B7
1257.70
1257.81
SSP CLASS III-A
12-INCH @
1.00%
1252.12
1251.75
8" SAN
INV: 1249.53


B8.3
B8.2
B8.1
B8
B8.4
1259.01
1259.10
1260.10
1260.32
1259.99
SSPRC
CLASS IV
12-INCH
@ 0.50%
SSPRC CLASS
IV 15-INCH @
0.50%
SSP CLASS III-A
18-INCH @
0.50%
1254.85
1254.97
1254.60
1254.44
1254.19
1254.00
1254.57
1254.65
SSP CLASS III-A 12-INCH @ 1.00%


B9.2
B9.1
B9
B9.3
B9.4
1275
1270
1265
1260
1270.89
1270.88
1271.35
1271.25
1271.75
SSP CLASS III-A 18-INCH
@ 0.58%
SSP CLASS III-A
12-INCH @
2.32%
1266.21
1265.31
1264.94
1265.69
1265.44
1264.61
1264.61
1264.81
SSP CLASS III-A 12-INCH @ 1.00%
SSP CLASS III-A 18-INCH @ 2.50%


C3.1
C3
C2
C1
1275
1270
1265
1260
1269.19
1270.11
1268.73
SSPRC CLASS IV
12-INCH @ 0.50%
SSPRC CLASS IV
18-INCH @ 0.55%
SSP CLASS III-A
18-INCH @ 0.50%
1264.87
1264.61
1263.88
1263.03
1262.79
1264.11
8" SAN
INV: 1262.56


C2.1M
C2
1280
1275
1270
1265
1260
1274.77
1268.73
1268.25
SSP CLASS III-A 12-INCH @ 6.50%
1263.52

2

JEFFERSON AVE

WASHINGTON AVE

FAYETTE AVE

STH 13/STH 77/MAIN ST

6" GV
CONNECT TO EX WM
998+55.9, 24.1' LT

6" WM PVC

ABANDON EXISTING WATER MAIN

12" X 6" TEE
W/ MJ PLUG
998+56.1, 6.0' LT

999+27
1" WTR DD

999+13
1" WTR

999+71
1" WTR

1000+21
1" WTR

1000+77
1" WTR

1001+04
1" WTR

1001+13
1" WTR DD

12" GV
1002+09.2, 6.0' LT

12" WM PVC

8" WM PVC

ABANDON EXISTING VALVE

2 - ABANDON EXISTING WATER MAIN

12" X 8" TEE
1002+15.2, 6.0' LT

22 1/2° BEND
1002+15.5, 3.8' RT

8" GV
1002+18.7, 10.8' RT

11 1/4° BEND
1002+22.8, 19.6' RT

CONNECT TO EX SAN SEWER
FIELD VERIFY
1002+32.0, 39.5' RT
W 1239.00 (12" SAN)

12" SAN @ 3.44%

CLEANOUT
13' - 1" WTR
1002+36

45° BEND
CONNECT TO EX WM
1002+31.1, 50.0' LT

45° BEND
1002+27.1, 45.1' LT

6" GV
1002+27.3, 38.5' LT

8X6 REDUCER
1002+27.4, 35.1' LT

12" X 8" TEE
1002+28.3, 6.0' LT

12" GV
1002+43.9, 6.0' LT

CONNECT TO EX SAN SEWER
FIELD VERIFY
1002+35.6, 41.7' LT
E 1236.20 (12" SAN)

1003+48
1" WTR

1004+09
1" WTR

1004+03
1" WTR DD

SALVAGE EXISTING HYDRANT

HYDRANT
1002+75.5, 46.9' RT

6" GV
1002+61.4, 55.5' RT

8" X 6" TEE
1002+52.0, 61.3' RT

6" WM PVC

8X6 REDUCER
1002+55.2, 65.9' RT

6" GV
CONNECT TO EX WM
1002+57.3, 68.7' RT

998+00 | 999+00 | 1000+00 | 1001+00 | 1002+00 | 1003+00 | 1004+00

8' MIN. COVER

12" WM PVC

MAINTAIN 18" MIN. SEPARATION
WATER UNDER SANITARY

12" SAN
INV: 1237.64

1255 | 1250 | 1245 | 1240 | 1235 | 1230 | 1225 | 1220

998+00 | 998+50 | 999+00 | 999+50 | 1000+00 | 1000+50 | 1001+00 | 1001+50 | 1002+00 | 1002+50 | 1003+00 | 1003+50 | 1004+00

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	SANITARY AND WATER UTILITY	SHEET 48 E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\022501-SAN.DWG
LAYOUT NAME - 01 SWU

PLOT DATE : 10/17/2022 1:38 PM PLOT BY : AYRES PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

HYDRANT
1005+92.7, 22.7' LT
6" GV
1005+92.4, 18.4' LT
12" X 6" TEE
1005+92.8, 10.0' LT
6" WM PVC
12" GV
1005+80.0, 10.0' LT

1004+09
1" WTR

1005+38
1" WTR

1006+20
1" WTR

1006+54
1" WTR

1007+34
1" WTR

1008+13
1" WTR

1008+66
1" WTR

SHED
HYDRANT
1008+93.1, 23.7' LT
6" GV
1008+93.6, 13.7' LT
12" X 6" TEE
1008+93.8, 9.9' LT
6" WM PVC
12" GV
1008+82.8, 9.9' LT

45 DEG BEND
1009+50.0, 43.0' LT

12" WM DD

12" WM PVC

12" WM PVC

12" WM PVC

45° BEND
1009+18.1, 10.0' LT

1004+00 1005+00 1006+00 1007+00 1008+00 1009+00 1010+00

STH 13/MAIN ST

ABANDON EXISTING WATER MAIN (2)

6" WM PVC

ABANDON EXISTING WATER MAIN

ABANDON EXISTING VALVE

1004+03
1" WTR DD

SALVAGE EXISTING HYDRANT

12" X 6" TEE
1007+40.2, 10.0' LT
6" GV
CONNECT TO EX WM
1007+40.0, 28.4' RT

BAD RIVER

2

1245 1240 1235 1230 1225 1220 1215 1210

8' MIN. COVER

12" WM PVC

WATER CROSSING

1004+00 1004+50 1005+00 1005+50 1006+00 1006+50 1007+00 1007+50 1008+00 1008+50 1009+00 1009+50 1010+00

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	SANITARY AND WATER UTILITY	SHEET 49	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\022501-SAN.DWG
LAYOUT NAME - 02 SWU

PLOT DATE : 10/17/2022 1:38 PM PLOT BY : AYRES PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

N

EX SAN MH
STA. 1010+93',
209' LT
RIM 1227.12
E INV1220.07

CONNECT TO EX SAN SEWER
FIELD VERIFY
1010+98.3, 26.0' LT
E 1221.98 (8" SAN)

WATER MAIN MANHOLE
1011+17.9, 25.4' LT

12" GV
1011+94.1, 10.0' LT
12" X 12" TEE
1012+00.0, 10.0' LT
12" GV
1012+09.0, 10.0' LT
12" GV
1012+00.0, 2.7' LT

HYDRANT
1014+25.0, 35.4' LT
6" GV
1014+25.0, 16.6' LT
12" X 6" TEE
1014+25.0, 10.0' LT
6" WM PVC

6" GV
CONNECT TO EX WM
1014+92.7, 65.9' LT
8X6 REDUCER
45° BEND
1014+92.5, 51.7' LT
45° BEND
1014+85.0, 44.1' LT

CTH GG

CONNECT TO EX SAN SEWER
FIELD VERIFY
1015+02.4, 59.2' LT
E 1241.19 (12" SAN)

ABANDON EXISTING WATER MAIN

1015+54
1" WTR

1015+58
1" WTR

VM DD

12" WM PVC

22 1/2° BEND
1011+52.4, 10.0' LT

Z3 STA 1012+17, 10.0' LT

Z4 STA 1013+13, 10.0' LT

STH 13/MAIN ST

12" WM PVC

8" WM PVC

ABANDON EXISTING VALVE

ABANDON EXISTING WATER MAIN

1010+00 1011+00 1012+00 1013+00 1014+00 1015+00 1016+00

8" SAN @ 0.95%

ABANDON EXISTING VALVE

22-INCH STEEL CASING

2 - ABANDON EXISTING WATER MAIN

ABANDON EXISTING VALVE

12" SAN @ 1.41%

CONNECT TO EX SAN SEWER
FIELD VERIFY
1010+94.8, 31.7' RT
W 1221.44 (8" SAN)

BAD RIVER

STH 77

12" WM PVC

41+00

12" GV
1014+77.0, 10.0' LT
12" X 8" TEE
1014+85.0, 10.0' LT
12" GV
1014+93.6, 10.0' LT

CONNECT TO EX SAN SEWER
FIELD VERIFY
1015+01.0, 32.5' RT
W 1239.90 (12" SAN)

EX SAN MH
STA. 1010+93, 220' RT
RIM 1230.0
W INV 1218.4

EX SAN MH S16
RIM 1247.72
W 1239.90 (12" PVC)
SE 1240.90 (6" SAN)
E 1239.90 (12" SAN)

1011+97
1" WTR

12X8 REDUCER
8" GV
CONNECT TO EX WM
41+28.8, 7.6' RT

WATER MAIN MANHOLE
1011+17.9, 25.4' LT

8" MIN. COVER

12" WM PVC

1229.85

1230.67

22-INCH STEEL CASING

12" SAN
INV: 1240.36

MAINTAIN 18" MIN. SEPARATION
WATER UNDER SANITARY

MAINTAIN 18" MIN. SEPARATION
WATER UNDER SANITARY

8" SAN
INV: 1221.74

WATER CROSSING

1250 1245 1240 1235 1230 1225 1220 1215

1010+00 1010+50 1011+00 1011+50 1012+00 1012+50 1013+00 1013+50 1014+00 1014+50 1015+00 1015+50 1016+00

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	SANITARY AND WATER UTILITY	SHEET 50 E

CONNECT TO EX SAN SEWER
FIELD VERIFY
1018+62.2, 50.2' LT
E 1253.25 (8" SAN)

8X6 REDUCER
6" GV
CONNECT TO EX WM
1018+84.7, 60.1' LT

12" X 8" TEE
1018+85.1, 10.0' LT

12" GV
1018+47.9, 10.0' LT
12" X 8" TEE
1018+53.6, 10.0' LT

1016+46
1" WTR

1017+07
1" WTR

1017+62
6" SAN

1017+68
1" WTR

1019+55
1" WTR

1019+60
6" SAN

1020+61
1" WTR

1020+66
6" SAN

1021+75
6" SAN

1021+81
1" WTR

N

12" WM PVC

8" WM PVC

8" SAN @ 0.50%

1016+00 1017+00 1018+00 1019+00 1020+00 1021+00 1022+00

EX SAN MH S32

S8

S9

EX SAN MH S31

2 - ABANDON EXISTING WATER MAIN

ABANDONING SEWER

STH 13/MAIN ST

8" SAN @ 1.00%

ABANDON EXISTING VALVE

SALVAGE EXISTING HYDRANT

1016+28
1" WTR DD

1017+22
1" WTR DD

EX SAN MH S33

HYDRANT
1018+42.0, 26.6' RT
6" GV
1018+45.7, 26.6' RT
8" X 6" TEE
1018+54.0, 26.5' RT
6" WM PVC

11' - 1" WTR
1018+55

CONNECT TO EX SAN SEWER
FIELD VERIFY
1017+42.9, 42.2' RT
W 1247.00 (8" SAN)

8" GV
CONNECT TO EX WM
1018+54.4, 55.2' RT

BENNETT AVE

1019+53
1" WTR DD

1019+61
6" SAN

1021+05
1" WTR

1021+09
6" SAN

EX SAN MH S33
RIM 1254.69
W 1246.70 (24" VCP)
E 1246.70 (8" SAN)

EX SAN MH S32
RIM 1255.92
N 1247.56 (24" VCP)
E 1247.56 (24" VCP)

EX SAN MH S31
RIM 1258.54
N 1253.00 (18" VCP)
W 1253.00 (6" SAN)
S 1253.00 (24" VCP)
DEPTH 5' 6" IN MAPPING FILE

1275 1270 1265 1260 1255 1250 1245 1240

8' MIN. COVER

LATERAL
1017+62

12" WM PVC

8" SAN @ 2.01%

MAINTAIN 18" MIN. SEPARATION
WATER UNDER SANITARY

S8
1017+44.3, 1.0' RT
SAN MH 4-FT
CASTING - J-S
RIM 1255.42
E 1247.41 (8")
N 1247.51 (8")

S9
1018+63.5, 0.2' LT
SAN MH 4-FT
CASTING - J-S
RIM 1258.53
W 1253.00 (8")
S 1249.90 (8")
N 1250.00 (8")

LATERAL
SS CROSSING
1019+60

8" SAN @ 2.74%

LATERAL
1020+66

LATERAL
SS CROSSING
1021+09

LATERAL
1021+76

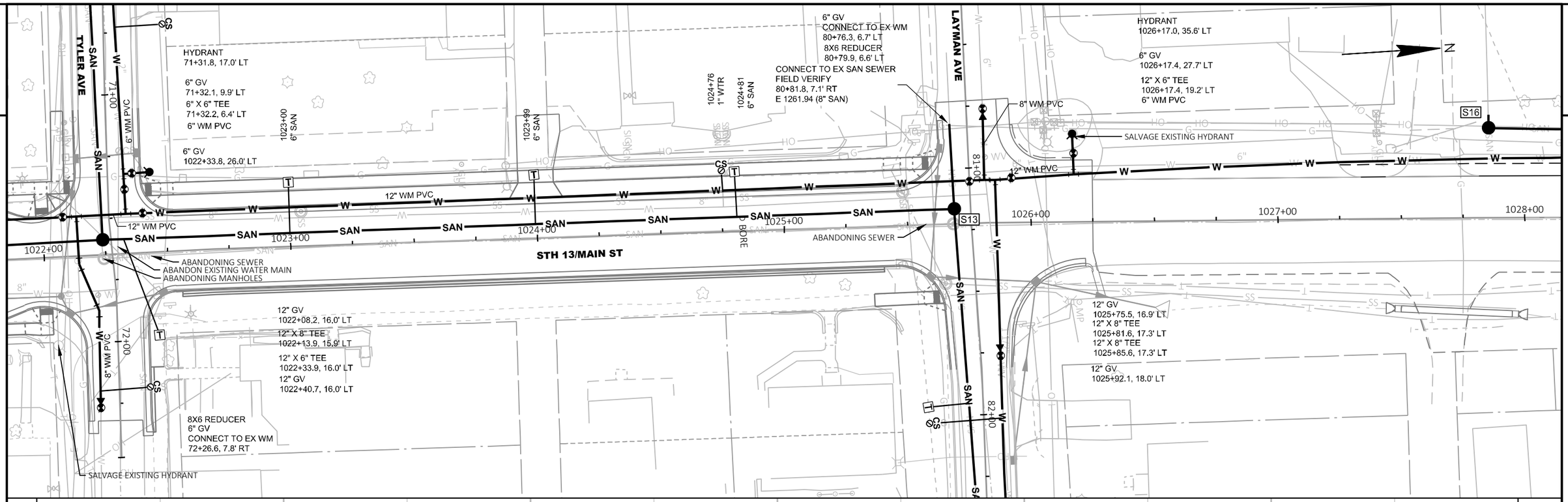
1016+00 1016+50 1017+00 1017+50 1018+00 1018+50 1019+00 1019+50 1020+00 1020+50 1021+00 1021+50 1022+00

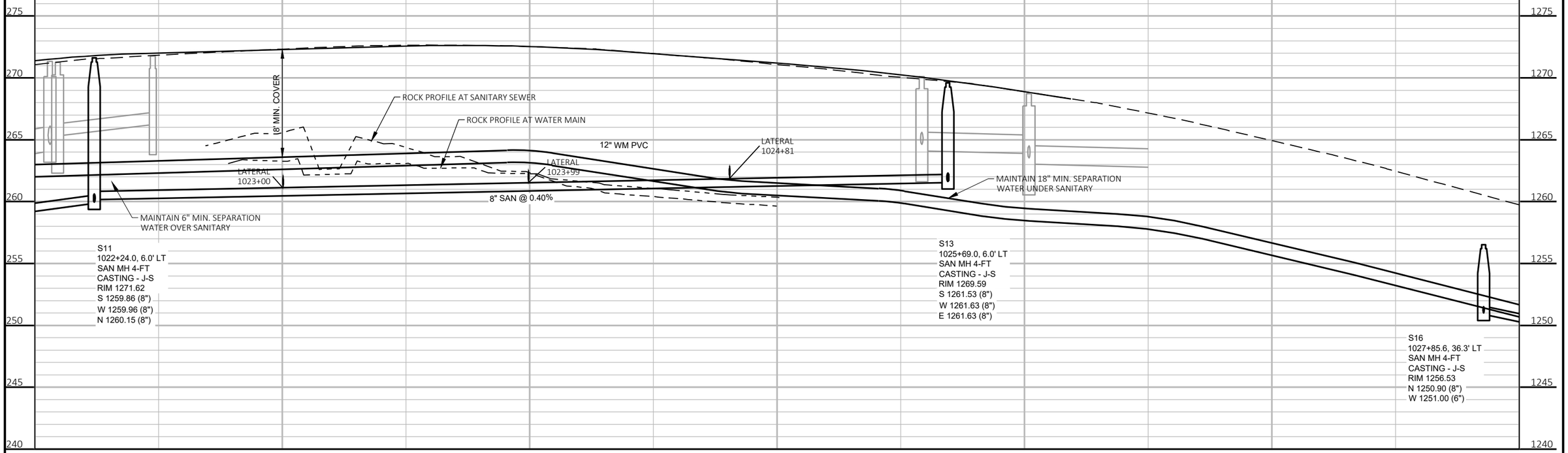
PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	SANITARY AND WATER UTILITY	SHEET 51	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\022501-SAN.DWG
LAYOUT NAME - 04 SWU

PLOT DATE : 10/17/2022 1:39 PM PLOT BY : AYRES PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42





PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	SANITARY AND WATER UTILITY	SHEET 52	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\022501-SAN.DWG
LAYOUT NAME - 05 SWU
PLOT DATE : 10/17/2022 1:39 PM
PLOT BY : AYRES
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

POWER POLE

1029+19
1" WTR

12" GV
1029+32.1, 26.6' LT

SALVAGE EXISTING HYDRANT

S17

6" WM PVC

CRESTVIEW LN

HYDRANT
1031+69.9, 63.0' LT
6" GV
1031+72.2, 49.0' LT
6" X 6" TEE
1031+73.7, 40.3' LT
12X6 REDUCER
1031+69.3, 39.6' LT
6" GV
CONNECT TO EX WM
1031+80.0, 41.3' LT

12" WM PVC

SALVAGE EXISTING HYDRANT

1028+00 1029+00 1030+00 1031+00 1032+00 1033+00 1034+00

STH 13

8" WM PVC

2 - ABANDON EXISTING WATER MAIN

LINCOLN AVE

12" X 8" TEE
1029+39.7, 26.8' LT

8X6 REDUCER
6" GV
1029+47.2, 51.5' RT
22 1/2° BEND
CONNECT TO EX WM

91+00

1265
1260
1255
1250
1245
1240
1235
1230

8' MIN. COVER

12" WM PVC

8" SAN @ 4.24%

MAINTAIN 6" MIN. SEPARATION
WATER OVER SANITARY

1028+00 1028+50 1029+00 1029+50 1030+00 1030+50 1031+00 1031+50 1032+00 1032+50 1033+00 1033+50 1034+00

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	SANITARY AND WATER UTILITY	SHEET 53	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\022501-SAN.DWG
LAYOUT NAME - 06 SWU

PLOT DATE : 10/17/2022 1:39 PM PLOT BY : AYRES PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

HYDRANT
69+10.7, 15.4' LT

6" GV
69+10.2, 11.1' LT

6" X 6" TEE
W/ MJ PLUG
69+09.3, 3.9' LT

6" WM PVC

69+34
1" WTR

69+79
1" WTR

19' - 1" WTR
70+72

1022+45
6" SAN

72+20
1" WTR

N

69+00

70+00

71+00

72+00

6" WM PVC

8" WM PVC

S12

S11X

S11

TYLER AVE

69+30
6" SAN

69+36
1" WTR

69+95
1" WTR

68+00

1022+00

8" WM PVC

22 1/2° BEND
71+87.3, 7.3' RT

22 1/2° BEND
71+67.3, 13.8' RT

8X6 REDUCER

6" GV
CONNECT TO EX WM
72+26.6, 7.8' RT

STH 13/MAIN ST

1295
1290
1285
1280
1275
1270
1265
1260
1255

67+00
67+50
68+00
68+50
69+00
69+50
70+00
70+50
71+00
71+50
72+00
72+50
73+00

S12
69+11.4, 4.6' RT
SAN MH 4-FT
CASTING - J-S
RIM 1282.73
E 1272.73 (8")

8" SAN @ 7.22%

S11X
69+90.6, 6.5' RT
SAN MH 4-FT
CASTING - J-S
RIM 1275.32
E 1265.07 (8")
W 1267.07 (8")

ROCK PROFILE

6" WM PVC

8" SAN @ 3.04%

8' MIN. COVER

MAINTAIN 6" MIN. SEPARATION
WATER OVER SANITARY

S11
1022+24.0, 6.0' LT
SAN MH 4-FT
CASTING - J-S
RIM 1271.62
S 1259.86 (8")
W 1259.96 (8")
N 1260.15 (8")

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	SANITARY AND WATER UTILITY	SHEET 54	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\022501-SAN.DWG
LAYOUT NAME - 07 SWU

PLOT DATE : 10/17/2022 1:39 PM PLOT BY : AYRES PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

8X6 REDUCER
81+73.0, 8.0' LT
6" GV
81+76.7, 7.9' LT

12" X 8" TEE
1025+81.6, 17.3' LT

HYDRANT
84+33.6, 19.5' LT
6" GV
84+33.7, 15.2' LT
6" X 6" TEE
W/ MJ PLUG
84+33.7, 9.5' LT
6" WM PVC

82+44 1" WTR
83+15 1" WTR
83+72 1" WTR
84+23 1" WTR

N

LAYMAN AVE

80+00 81+00 82+00 83+00 84+00 85+00

1026+00

1025+00

S13

S15

CONNECT TO EX SAN SEWER
FIELD VERIFY
80+81.8, 7.1' RT
E 1261.94 (8" SAN)

81+95 6" SAN
82+02 1" WTR

83+58 6" SAN
83+83 1" WTR

VERIFY SANITARY MANHOLE DEPTH
PRIOR TO STARTING CONSTRUCTION.
PIPE FLOW LINE SHALL BE LOWER
THAN MANHOLE INVERT

SAN MH

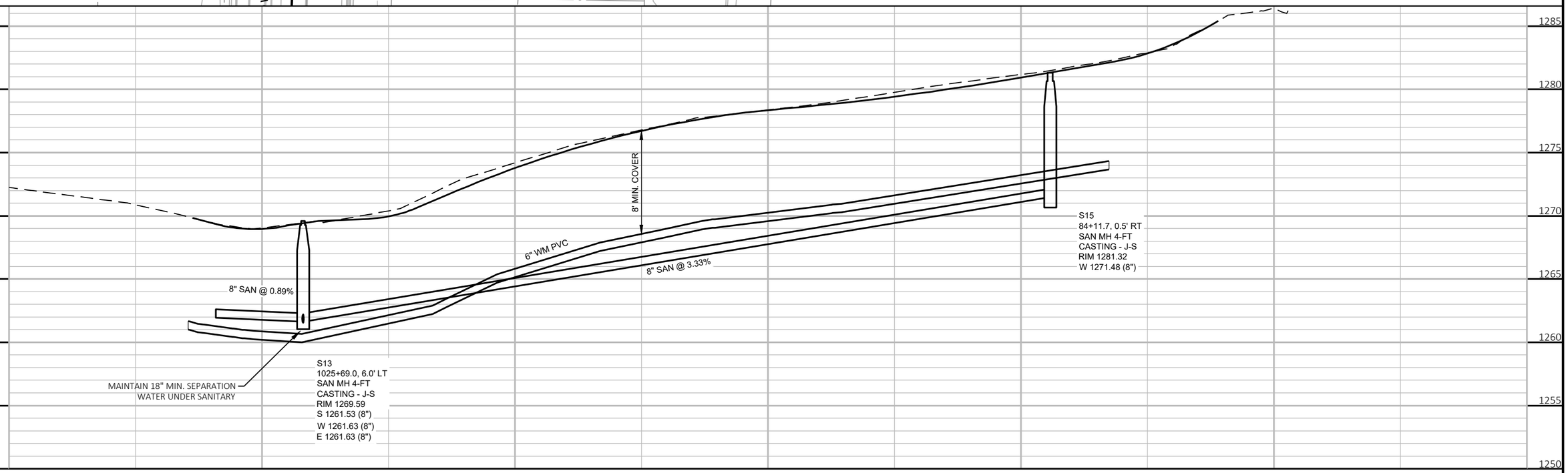
VENT

POST

SIGN

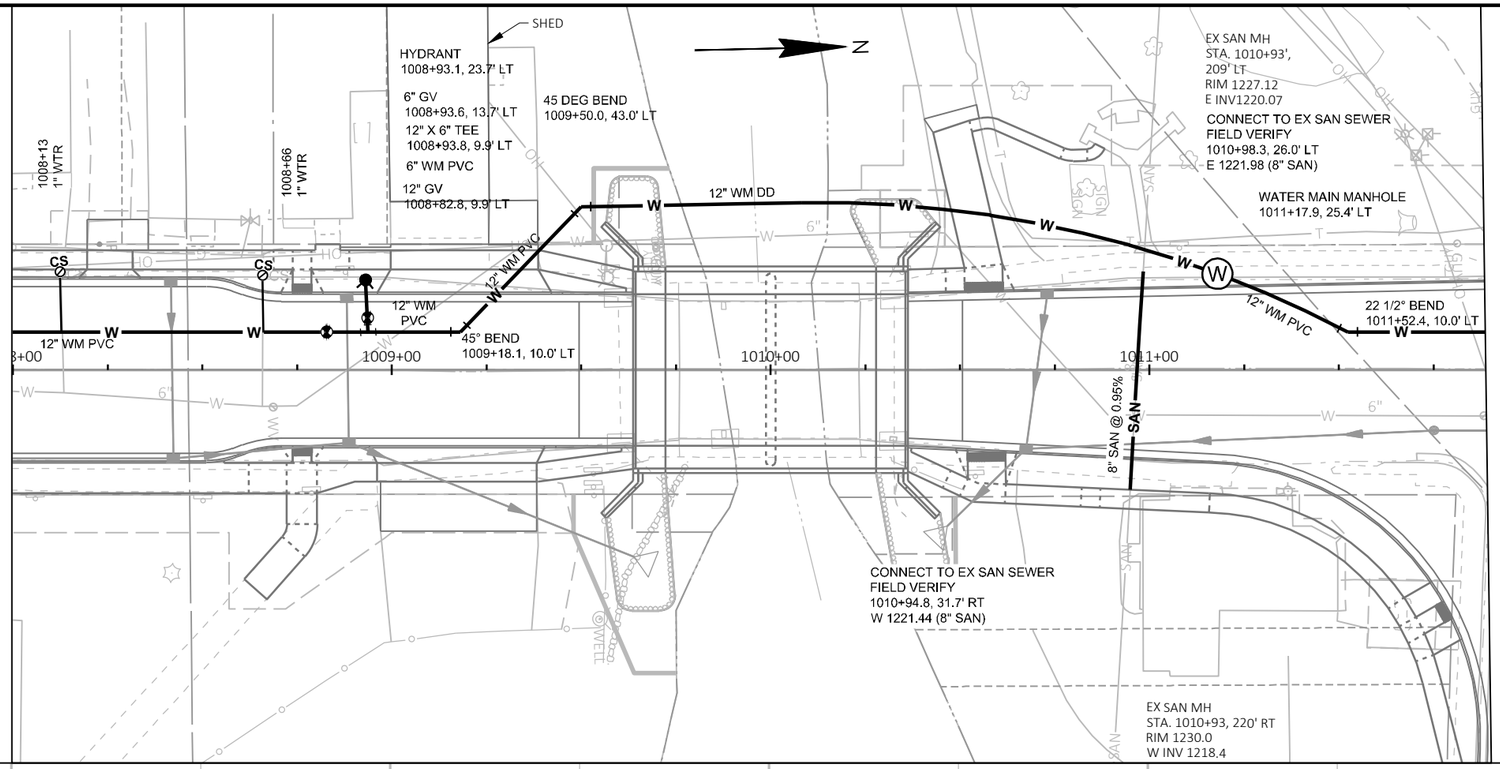
SAN SAN

O BORE

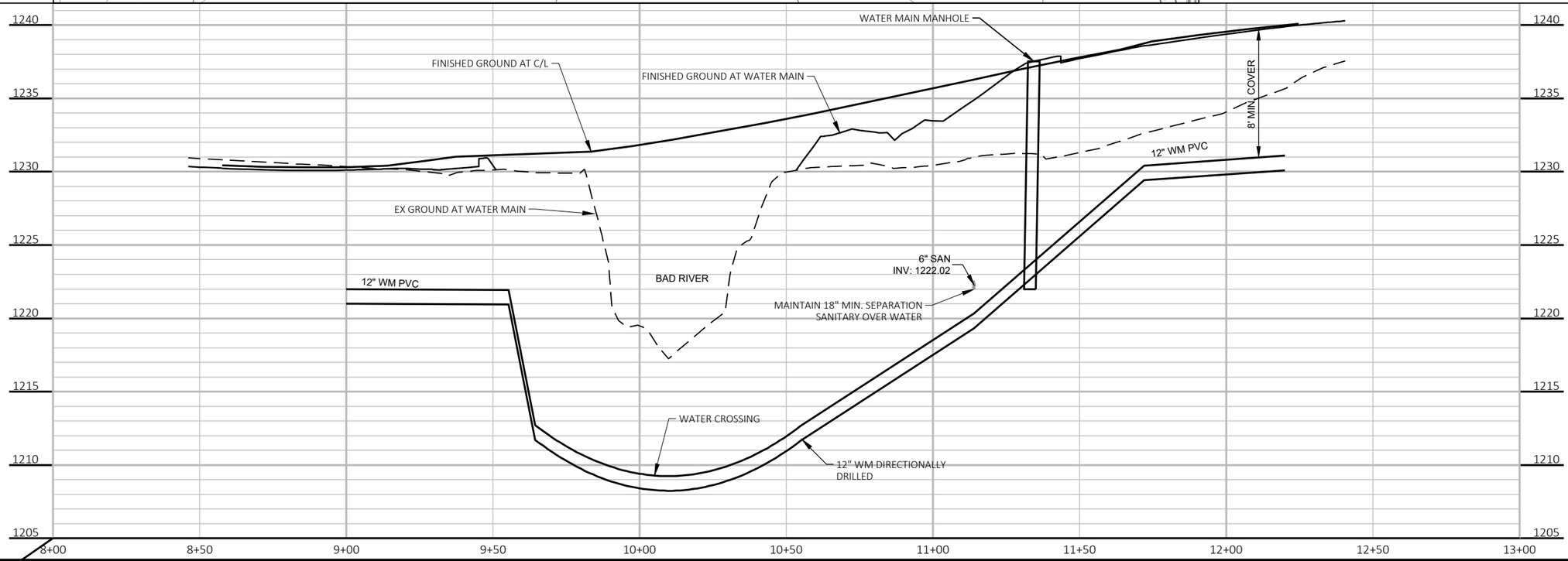


PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	SANITARY AND WATER UTILITY	SHEET 55	E

2



NOTE: COORDINATE WATER MAIN DIRECTIONAL DRILLING AND TIE INS WITH STRUCTURE CONSTRUCTION.



PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	SANITARY AND WATER UTILITY	SHEET 56	E

2

JEFFERSON AVE

WASHINGTON AVE

FAYETTE AVE

STH 13

N

LEGEND

- ROADWAY LIGHTING UNIT
- DECORATIVE LIGHTING UNIT
- SALVAGE AND REINSTALL DECORATIVE LIGHTING UNIT
- PULL BOX NON-CONDUCTIVE (24 X 42-INCH)
- CONDUIT NON-METALLIC SCHEDULE 40 2-INCH UNLESS NOTED
- LIGHTING CONTROL CABINET (LCC-#)
- CONDUIT STUB
- A2, 2 - #8 / F1, 2 - #4 — LIGHTING CONTROL CABINET DESIGNATION CIRCUIT #, CONDUIT WIRE CONFIGURATION FESTOON CIRCUIT
- (R) — LIGHT REMOVED BY UTILITY

A-7 (1)(F1) — CONTROL CABINET DESIGNATION, POLE NUMBER, LIGHTING CIRCUIT(S), FESTOON CIRCUIT(S), LOCATION (TO CENTER OF POLE)
STATION, OFFSET
LED B-5(T)-6 — LUMINAIRE ARM LENGTH, POLE TYPE (T) INCLUDES TRANSFORMER BASE, LUMINAIRE DESIGNATION

GENERAL LIGHTING NOTES:
1. ALL CONDUITS WITH WIRES SHALL ALSO INCLUDE 1 - #8 GROUND.
2. ALL EMPTY CONDUITS SHALL INCLUDE LOCATING WIRE.

LPB-2
STA 1000+65.00, 21.9' LT
PULL BOXES NON-CONDUCTIVE
24X42-INCH

LPB-3
STA 1001+92.98 , 22.8' LT
PULL BOXES NON-CONDUCTIVE
24X42-INCH

3 - 3" CONDUITS
A1, 2 - #8
A2, 2 - #8

LCC A
STA 1002+45.81 , 40.2' LT
LIGHTING CONTROL CABINET

LPB-4X
STA 1002+44.96, 35.8' LT
PULL BOXES NON-CONDUCTIVE
24X42-INCH

LPB-4
STA 1002+49.72 , 21.9' LT
PULL BOXES NON-CONDUCTIVE
24X42-INCH

999+00 1000+00 1001+00 1002+00 1003+00

A-1 (1)
STA 999+00.00 , 22.0' RT
LED C-5(T)-8

LPB-1
STA 1000+65.00, 21.9' RT
PULL BOXES NON-CONDUCTIVE
24X42-INCH

A1, 4 - #8

A-2 (1)
STA 1000+76.00 , 22.0' RT
LED C-5(T)-8

A-3 (2)
STA 1002+82.34 , 30.0' RT
LED C-5(T)-8

LPB-5
STA 1002+77.19 , 32.8' RT
PULL BOXES NON-CONDUCTIVE
24X42-INCH

1004+00 1005+00 1006+00 1007+00 1008+00 1009+00

A-4 (2)
STA 1004+35.00 , 31.7' RT
LED C-5(T)-8

A-5 (2)
STA 1005+97.75 , 31.9' RT
LED C-5(T)-8

A-6 (2)
STA 1007+45.00 , 31.7' RT
LED C-5(T)-8

A-7 (2)
STA 1008+95.00 , 31.7' RT
LED C-5(T)-8

LPB-6
STA 1009+47.57 , 30.8' RT
PULL BOXES NON-CONDUCTIVE
24X42-INCH

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	LIGHTING PLAN	SHEET 57	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\023601-LP.DWG
LAYOUT NAME - 01 LP
PLOT DATE : 10/17/2022 12:18 PM
PLOT BY : AYRES
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

2

N

LPB-8
STA 1010+68.86 , 25.4' LT
PULL BOXES NON-CONDUCTIVE
24X42-INCH

A-9 (2)
STA 1011+96.21 , 27.4' LT
LED C-5(T)-8

LPB-10
STA 1014+48.18 , 32.6' LT
PULL BOXES NON-CONDUCTIVE
24X42-INCH

B-2 (3) (F1)
STA 1014+45.50 , 32.7' LT
LED B-5(T)-6

B3, 2 - #8
F1, 2 - #6

EX B-2

CTH GG

B3, 2 - #8
F1, 2 - #6

A2, 2 - #8

A2, 2 - #8

1010+00

1011+00

1012+00

1013+00

1014+00

1015+00

A2, 4 - #8

A2, 2 - #8

STH 13

B4, 2 - #8
F2, 2 - #4

B4, 2 - #8
F2, 2 - #6

LPB-7
STA 1010+70.39 , 26.1' RT
PULL BOXES NON-CONDUCTIVE
24X42-INCH

A-8 (2)
STA 1010+75.65 , 26.1' RT
LED C-5(T)-8

EX B-1

B4, 2 - #8
F2, 2 - #6

B4, 2 - #8
F2, 2 - #6

EX B-3

B-1 (4) (F2)
STA 1013+65.00 , 32.0' RT
REINSTALL DECORATIVE
LIGHTING UNIT

LPB-9
STA 1014+46.69 , 27.2' RT
PULL BOXES NON-CONDUCTIVE
24X42-INCH

B-3 (4) (F2)
STA 1015+26.98 , 31.4' RT
REINSTALL DECORATIVE
LIGHTING UNIT

BAD
RIVER

STH 77

EX 1

LPB-13
STA 1018+41.41 , 24.0' LT
PULL BOXES NON-CONDUCTIVE
24X42-INCH

BENNETT AVE

CONNECT TO EX 2 LIGHTING UNIT
& CONDUIT 2-INCH (B3, F1)
B3, 2 - #8
F1, 2 - #6

CONNECT TO EX 1 LIGHTING UNIT
& CONDUIT 2-INCH (B3, F1)
B3, 2 - #8
F1, 2 - #6

EX 2

LPB-15
STA 1018+96.48 , 25.7' LT
PULL BOXES NON-CONDUCTIVE
24X42-INCH

LPB-11
STA 1015+49.44 , 21.1' LT
PULL BOXES NON-CONDUCTIVE
24X42-INCH

B-4 (3) (F1)
STA 1016+51.27 , 31.8' LT
REINSTALL DECORATIVE
LIGHTING UNIT

B3, 2 - #8
F1, 2 - #6

EX B-4

B-6 (3) (F1)
STA 1018+31.59 , 37.3' LT
REINSTALL DECORATIVE
LIGHTING UNIT

EX B-6

B3, 2 - #8
F1, 2 - #6

B3, 2 - #8
F1, 2 - #6

B3, 4 - #8
F1, 4 - #6

B3, 2 - #8
F1, 4 - #6

STH 13

1016+00

1017+00

1018+00

1019+00

102

B4, 2 - #8
F2, 2 - #6

B-5 (4) (F2)
STA 1017+77.98 , 32.0' RT
REINSTALL DECORATIVE
LIGHTING UNIT

B4, 4 - #8
F2, 4 - #6

B4, 2 - #8
F2, 2 - #6

B-7X (4) (F2)
STA 1019+61.50 , 32.5' RT
REINSTALL DECORATIVE
LIGHTING UNIT

B4, 2 - #8
F2, 2 - #4

B4, 2 - #8
F2, 2 - #4

EX B-5

B4, 4 - #8
F2, 2 - #4
F2, 2 - #6

EX B-7

EX B-7X

LPB-12
STA 1018+27.24 , 24.0' RT
PULL BOXES NON-CONDUCTIVE
24X42-INCH

LPB-14
STA 1018+93.30 , 25.2' RT
PULL BOXES NON-CONDUCTIVE
24X42-INCH

TO EX 4

CONNECT TO EX 3 LIGHTING UNIT
& CONDUIT 2-INCH (B4, F2)
B4, 2 - #8
F2, 2 - #6

TO EX 3

CONNECT TO EX 4 LIGHTING UNIT
& CONDUIT 2-INCH (B4, 2 - #8)

B-7 (4) (F2)
STA 1018+97.91 , 42.3' RT
REINSTALL DECORATIVE
LIGHTING UNIT

FORCEMAIN

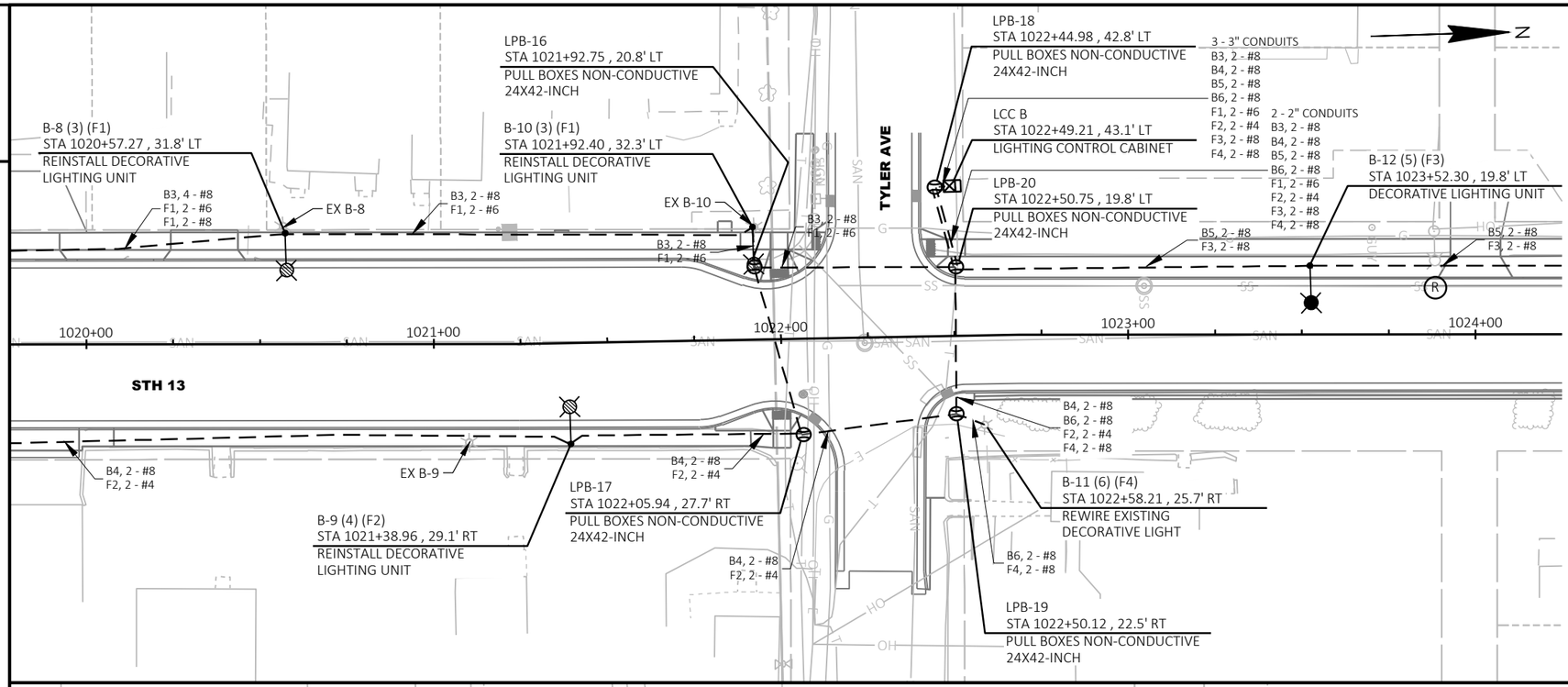
LEGEND

- ROADWAY LIGHTING UNIT
- DECORATIVE LIGHTING UNIT
- SALVAGE AND REINSTALL DECORATIVE LIGHTING UNIT
- PULL BOX NON-CONDUCTIVE (24 X 42-INCH)
- CONDUIT NON-METALLIC SCHEDULE 40 2-INCH UNLESS NOTED
- LIGHTING CONTROL CABINET (LCC-#)
- CONDUIT STUB
- A2, 2 - #8 / F1, 2 - #4 — LIGHTING CONTROL CABINET DESIGNATION CIRCUIT #, CONDUIT WIRE CONFIGURATION FESTOON CIRCUIT
- (R) — LIGHT REMOVED BY UTILITY

CONTROL CABINET DESIGNATION
POLE NUMBER
LIGHTING CIRCUIT(S)
FESTOON CIRCUIT(S)
LOCATION (TO CENTER OF POLE)
A-7 (1)(F1)
STATION, OFFSET
LED B-5(T)-6
LUMINAIRE ARM LENGTH
POLE TYPE
(T) INCLUDES TRANSFORMER BASE
LUMINAIRE DESIGNATION

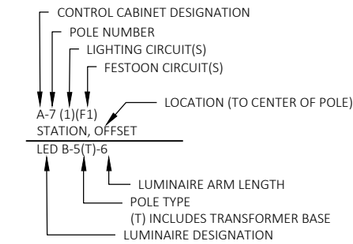
GENERAL LIGHTING NOTES:
1. ALL CONDUITS WITH WIRES SHALL ALSO INCLUDE 1 - #8 GROUND.
2. ALL EMPTY CONDUITS SHALL INCLUDE LOCATING WIRE.

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	LIGHTING PLAN	SHEET 58	E



LEGEND

- ROADWAY LIGHTING UNIT
- DECORATIVE LIGHTING UNIT
- SALVAGE AND REINSTALL DECORATIVE LIGHTING UNIT
- PULL BOX NON-CONDUCTIVE (24 X 42-INCH)
- CONDUIT NON-METALLIC SCHEDULE 40 2-INCH UNLESS NOTED
- LIGHTING CONTROL CABINET (LCC-#)
- CONDUIT STUB
- A2, 2 - #8 / F1, 2 - #4 — LIGHTING CONTROL CABINET DESIGNATION CIRCUIT #, CONDUIT WIRE CONFIGURATION FESTOON CIRCUIT
- (R) — LIGHT REMOVED BY UTILITY



GENERAL LIGHTING NOTES:

1. ALL CONDUITS WITH WIRES SHALL ALSO INCLUDE 1 - #8 GROUND.
2. ALL EMPTY CONDUITS SHALL INCLUDE LOCATING WIRE.

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	LIGHTING PLAN	SHEET 59	E

2

JEFFERSON AVE

WASHINGTON AVE

FAYETTE AVE

STOP
R1-1
30"X30"

NO PARKING ANY TIME
R7-1R
18"X24"

END SCHOOL ZONE
S5-2
24"X30"

NO PARKING ANY TIME
R7-1D
18"X24"

NO PARKING ANY TIME
R7-1D
18"X24"

NO PARKING ANY TIME
R7-1L
18"X24"

STOP
R1-1
30"X30"

MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE) - TYP

S1-1
36"X36"

S16-7L
30"X18"

998+00

999+00

1000+00

1001+00

1002+00

1003+00

BEGIN PROJECT
STA 998+00.00

SCHOOL
SPEED LIMIT
15
WHEN CHILDREN ARE PRESENT
S4-51
24"X48"

MARKING LINE EPOXY
4-INCH (WHITE EDGELINE)

MARKING LINE EPOXY
4-INCH (DOUBLE YELLOW)
- TYP

MARKING CROSSWALK
EPOXY BLOCK STYLE
24-INCH (WHITE) - TYP

STOP
R1-1
30"X30"

S1-1
36"X36"

S16-7L
30"X18"

CLEANOUT

SPEED LIMIT
25
R2-1
24"X30"

MARKING CROSSWALK EPOXY
BLOCK STYLE 24-INCH (WHITE)
- TYP

S1-1
36"X36"

S16-7L
30"X18"

MARKING LINE EPOXY
4-INCH (DOUBLE YELLOW)

MARKING CROSSWALK EPOXY
BLOCK STYLE 24-INCH (WHITE)
- TYP

S1-1
36"X36"

S16-7L
30"X18"

SOUTH
13
I4-1
24"X36"

1004+00

1005+00

1006+00

1007+00

1008+00

1009+00

SPEED LIMIT
25
R2-1
24"X30"

NOT SURE WHAT
THESE SIGNS ARE

S1-1
36"X36"

S16-7L
30"X18"

NO PARKING ANY TIME
R7-1L
18"X24"

NORTH EAST
13 77
J2-2
48"X57"

NO PARKING ANY TIME
R7-1D
18"X24"

MARKING CURB
EPOXY (YELLOW)

MARKING DIAGONAL EPOXY
8-INCH (WHITE) - TYP
(10' SPACING C-C)

MARKING LINE EPOXY
4-INCH (WHITE)

NO PARKING ANY TIME
R7-1D
18"X24"

Ashland
Hurley
D1-2
42"X24"

NO PARKING ANY TIME
R7-1R
18"X24"

S1-1
36"X36"

S16-7L
30"X18"

W10-1
36"X36"

MARKING RAILROAD
CROSSING EPOXY

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	PERMANENT SIGNING & PAVEMENT MARKING	SHEET 60	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 023201-ps
PLOT DATE : 8/17/2022 11:23 AM
PLOT BY : RESHESKE, CARRIE
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

2

2

N

MARKING LINE EPOXY
4-INCH (WHITE)

MARKING DIAGONAL EPOXY
6-INCH (YELLOW) - TYP
(12.5' SPACING C-C)

MARKING LINE EPOXY
4-INCH (DOUBLE YELLOW)

MARKING LINE EPOXY
4-INCH (DOUBLE YELLOW)

MARKING DIAGONAL
EPOXY 12-INCH (YELLOW)
- TYP (10' SPACING C-C)

MARKING STOP LINE
EPOXY 18-INCH

MARKING DIAGONAL EPOXY
12-INCH (YELLOW) - TYP
(25' SPACING C-C)

MARKING LINE EPOXY
4-INCH (DOUBLE YELLOW)

MARKING CURB EPOXY
& MARKING ISLAND NOSE
EPOXY(YELLOW)

MARKING LINE EPOXY
4-INCH (DOUBLE YELLOW)

MARKING CROSSWALK EPOXY
BLOCK STYLE 24-INCH (WHITE)
- TYP

MARKING CROSSWALK EPOXY
TRANSVERSE LINE 6-INCH
(WHITE) - TYP

MARKING STOP LINE
EPOXY 18-INCH

MARKING LINE EPOXY
4-INCH (DOUBLE YELLOW)

MARKING LINE EPOXY
4-INCH (WHITE)

PLACE SIGN AND MARKING
RAILROAD CROSSING EPOXY
@ STA 42+09, STH 77

MARKING LINE EPOXY
8-INCH (WHITE)

MARKING RAILROAD
CROSSING EPOXY

MARKING CROSSWALK EPOXY
TRANSVERSE LINE 6-INCH
(WHITE) - TYP

MARKING RAILROAD
CROSSING EPOXY

MARKING LINE EPOXY
4-INCH (DOUBLE YELLOW)

MARKING CROSSWALK EPOXY
BLOCK STYLE 24-INCH (WHITE)
- TYP

MARKING CROSSWALK EPOXY
TRANSVERSE LINE 6-INCH
(WHITE) - TYP

SIGN TO REMAIN

BENNETT AVE

STH 77

CTH GG

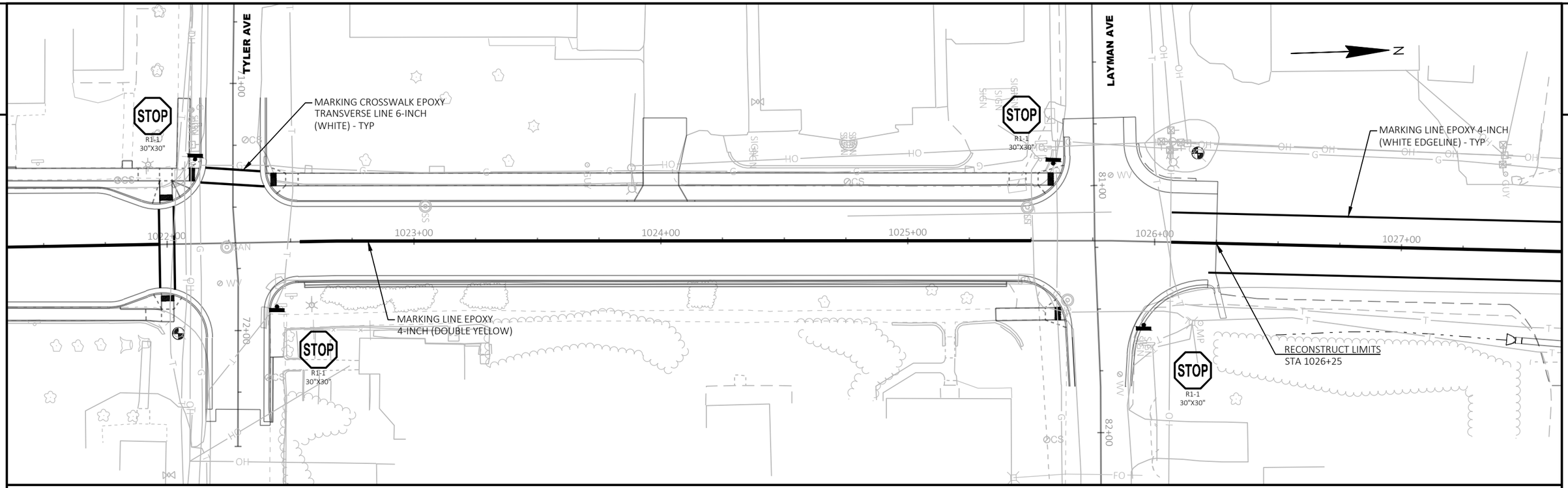
1010+00 1011+00 1012+00 1014+00 1015+00 1016+00 1017+00 1018+00 1019+00 1020+00 1021+00

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	PERMANENT SIGNING & PAVEMENT MARKING	SHEET 61 E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 023202-ps

PLOT DATE : 8/17/2022 11:23 AM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

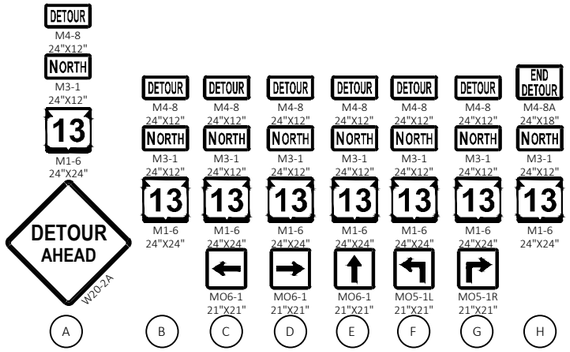


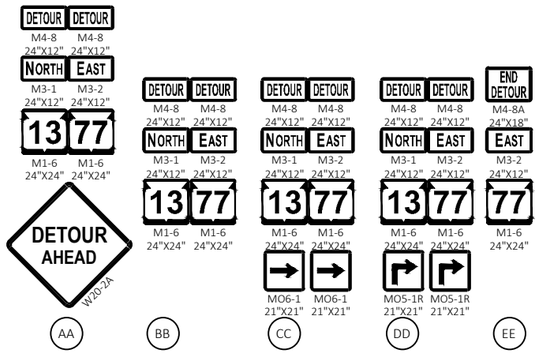
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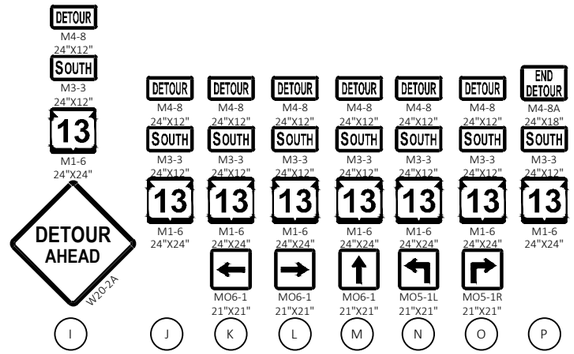
PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	PERMANENT SIGNING & PAVEMENT MARKING	SHEET 62	E

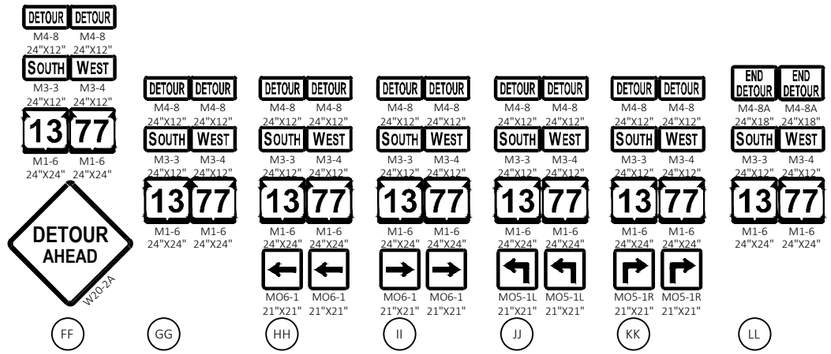
FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 023203-ps
PLOT DATE : 7/25/2022 4:14 PM
PLOT BY : RESHESKE, CARRIE
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

2

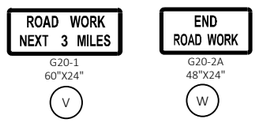














PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	DETOUR ROUTE/TRAFFIC CONTROL - SIGN LEGEND (ALL STAGES)	SHEET 63	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\026001-S1AB.DWG
LAYOUT NAME - STAGING SIGN LEGEND

PLOT DATE : 7/25/2022 4:14 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : ############

2

2

STAGES 1A & 1B
STH 13 NB TRAFFIC WILL REMAIN ON EXISTING NB. STH 13 SB TRAFFIC WILL USE CTH GG TO THOMAS ST (4-WAY STOP AT CTH GG AND THOMAS ST). STH 13 NB WILL BE USING HALF AT A TIME IN WORK ZONE. STH 77 WB AND STH 13 SB TRAFFIC WILL TAKE STH 13 NB TO CTH GG (USING THE STH 13 SB DETOUR).

STH 13 NORTHBOUND TRAFFIC
STH 13 SOUTHBOUND TRAFFIC
ONE-WAY STH 13 NORTHBOUND TRAFFIC

N

HWY 13
ROAD WORK
BEGINS XXX-XX
G20-57
96"X48"

SEE SDD "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 45 MPH OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC" FOR SIGNS TO BE PLACED PRIOR TO THE INTERSECTION OF STH 13 AND GOLF COURSE ROAD.

STH 13 TRAFFIC SEE SDD "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 45 MPH OR GREATER TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC" FOR ADDITIONAL INFORMATION.

HWY 13
ROAD WORK
BEGINS XXX-XX
G20-57
96"X48"

STH 77 TRAFFIC SEE SDD "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 40 MPH OR LESS TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC" FOR ADDITIONAL INFORMATION.

SIDE ROADS
JEFFERSON AVE
WASHINGTON AVE
FAYETTE AVE
CTH GG
BENNETT ST (2)
TYLER ST (3)
LAYMAN DR (2)
LINCOLN DR
CEMETERY DR
CRESTVIEW LN
WHITE AVE
BUTLER RD
STH 169
CTH C
GOLF COURSE RD

SEE SDD "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 45 MPH OR GREATER TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC" FOR TYPICAL SIDE ROAD APPROACH WARNING SIGN.

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	DETOUR ROUTE/TRAFFIC CONTROL - STAGES 1A & 1B OVERVIEW	SHEET 64	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\026001-S1AB.DWG
LAYOUT NAME - STAGE 1AB OVERVIEW
PLOT DATE : 10/14/2022 1:56 PM
PLOT BY : RESHESKE, CARRIE
PLOT NAME :
PLOT SCALE : 1 IN:500 FT

2

STAGE 1A NOTES

CONSTRUCTION:
- CONSTRUCT SB LANE FROM JEFFERSON TO SOUTH OF BAD RIVER BRIDGE.
- INSTALL UNDERGROUND UTILITIES.

TRAFFIC:
- SB TRAFFIC WILL REMAIN ON STH 13 SB LANE, TURNING RIGHT ONTO CTH GG THEN USING THOMAS ST.
- NB TRAFFIC WILL REMAIN ON STH 13 NB LANE.

LEGEND
- TRAFFIC DIRECTION
- TRAFFIC CONTROL DRUMS WITH/WITHOUT TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL BARRICADES WITH/WITHOUT SIGN
- WORK ZONE
- POST WITH ATTACHED SIGN

N

991+00 992+00 993+00 994+00 995+00 996+00 997+00 998+00

STH 13

JEFFERSON AVE

WASHINGTON AVE

ROAD CLOSED
R11-2
48"X30"

R3-2
24"X24"

R3-1
24"X24"

WO1-6
48"X24"

DO NOT ENTER
R5-1
30"X30"

999+00 1000+00 1001+00 1002+00 1003+00 1004+00 1005+00

DRUMS @ 25' SPACING (TYP)

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (YELLOW)

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (WHITE)

FAYETTE AVE

SIGN

2

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	TRAFFIC CONTROL - STAGE 1A	SHEET 65	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\026001-S1A.DWG
LAYOUT NAME - 026001-s1a

PLOT DATE : 10/14/2022 1:52 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

2

BAD RIVER

ROAD CLOSED
R11-2
48"X30"

ROAD CLOSED TO THRU TRAFFIC
R11-4
60"X30"

1006+00 1007+00 1008+00 1009+00 1010+00 1011+00 1012+00 1013+00

STH 13

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (YELLOW)

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (WHITE)

DRUMS @ 25' SPACING (TYP)

R3-2
24"X24"

STH 77

LEGEND

- TRAFFIC DIRECTION
- TRAFFIC CONTROL DRUMS WITH/WITHOUT TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL BARRICADES WITH/WITHOUT SIGN
- WORK ZONE
- POST WITH ATTACHED SIGN

CTH GG

ROAD OPEN TO
STH 77 EAST

DETOUR

R10-61
60"X30"

M4-9R
30"X24"

SIGN

1013+00 1014+00 1015+00 1016+00 1017+00 1018+00 1019+00 1020+00

STH 13

BENNETT ST

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	TRAFFIC CONTROL - STAGE 1A	SHEET 66	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\026001-S1A.DWG
LAYOUT NAME - 026002-s1a

PLOT DATE : 7/25/2022 4:15 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

STAGE 1B NOTES

CONSTRUCTION:
- CONSTRUCT NB LANE FROM JEFFERSON TO SOUTH OF THE BAD RIVER BRIDGE. GAP CONSTRUCTION OF FAYETTE INTERSECTION, MAINTAINING WB TRAFFIC AT ALL TIMES.
- INSTALL UNDERGROUND UTILITIES.

TRAFFIC:
- SB TRAFFIC WILL REMAIN ON STH 13 SB LANE, TURNING RIGHT ONTO CTH GG THAN USING THOMAS ST.
- NB TRAFFIC WILL USE STH 13 SB LANE.

LEGEND
- TRAFFIC DIRECTION
- TRAFFIC CONTROL DRUMS WITH/WITHOUT TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL BARRICADES WITH/WITHOUT SIGN
- WORK ZONE
- POST WITH ATTACHED SIGN

N

991+00 992+00 993+00 994+00 995+00 996+00 997+00 998+00

STH 13

W1-4L
36"X36"

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (WHITE)

DRUMS @ 25' SPACING (TYP)

WO1-6
48"X24"

STA 994+50 - STA 996+50
REMOVE CENTERLINE MARKING

ROAD CLOSED
R11-2
48"X30"

JEFFERSON AVE

WASHINGTON AVE

N

R3-1
24"X24"

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (WHITE)

DRUMS @ 25' SPACING (TYP)

ROAD CLOSED
R11-2
48"X30"

998+00 999+00 1000+00 1001+00 1002+00 1003+00 1004+00 1005+00

STH 13

WO1-6
48"X24"

ROAD CLOSED
R11-2
48"X30"

R3-2
24"X24"

COVERING SIGNS TYPE II

STOP
R1-1
30"X30"

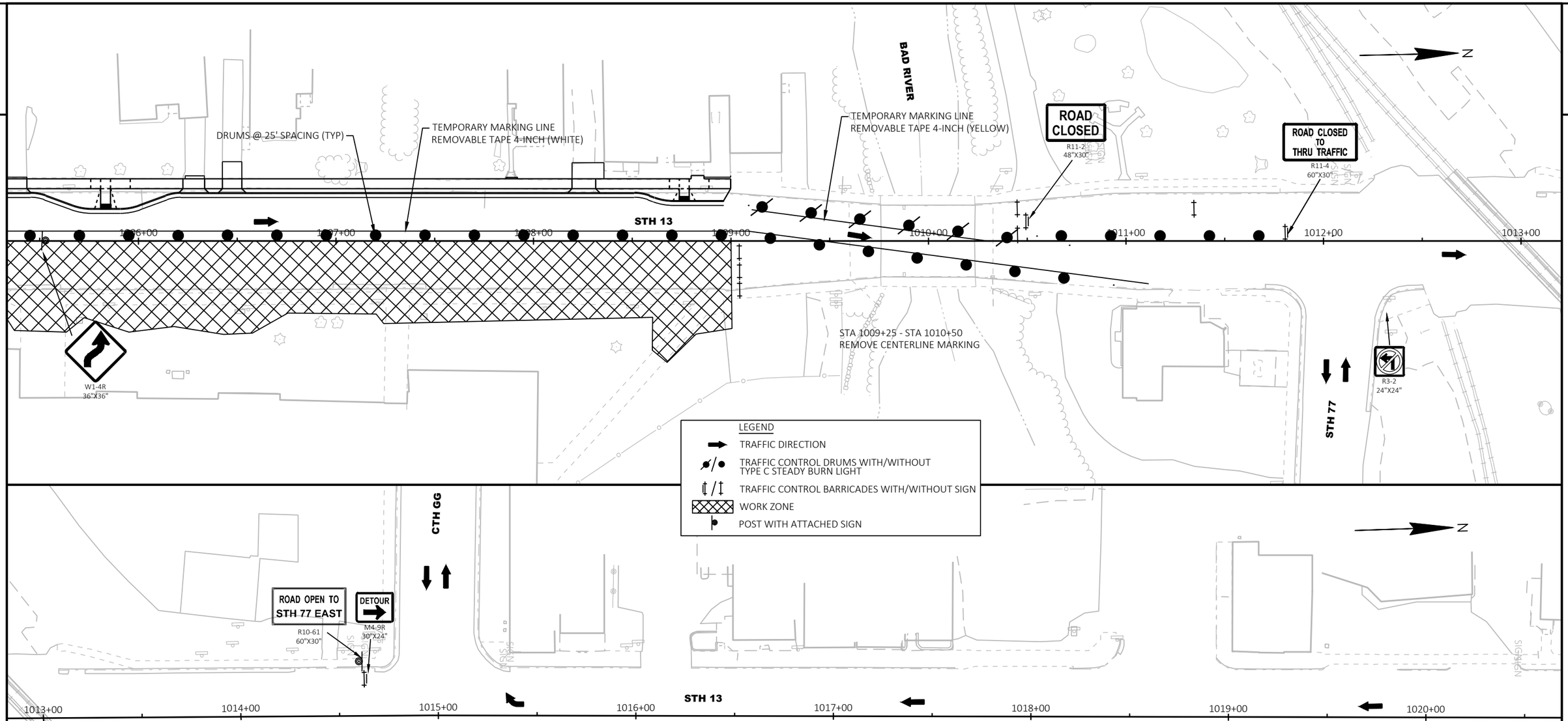
NOTE:
USE CONSTRUCTION GAP TO CONSTRUCT INTERSECTION AND MAINTAIN ACCESS FROM FAYETTE AVE AT ALL TIMES

FAYETTE AVE

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	TRAFFIC CONTROL - STAGE 1B	SHEET 67	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\026002-S1B.DWG
LAYOUT NAME - 026001-s1b
PLOT DATE : 7/25/2022 4:15 PM
PLOT BY : RESHESKE, CARRIE
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

2



PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	TRAFFIC CONTROL - STAGE 1B	SHEET 68	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\026002-S1B.DWG
LAYOUT NAME - 026002-s1b

PLOT DATE : 7/25/2022 4:15 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

2

2

STH 13 NORTHBOUND TRAFFIC
STH 13 SOUTHBOUND TRAFFIC
WORK ZONE

STAGE 2
TRAFFIC: NB TRAFFIC WILL REMAIN ON EXISTING STH 13 AND SB TRAFFIC WILL REMAIN ON STH 13 SB LANE, TURNING RIGHT ONTO CTH GG THEN USING THOMAS ST.

WORK: OLSON RD MAY REQUIRE A 2" OVERLAY (NORTH OF EAST TYLER AVE MAY REQUIRE A PROFILE MILL AND OVERLAY).

N

SEE SDD "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 45 MPH OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC" FOR SIGNS TO BE PLACED PRIOR TO THE INTERSECTION OF STH 13 AND GOLF COURSE ROAD.

STH 13 TRAFFIC SEE SDD "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 45 MPH OR GREATER TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC" FOR ADDITIONAL INFORMATION.

SIDE ROADS
JEFFERSON AVE
WASHINGTON AVE
TYLER ST
WHITE AVE
BUTLER RD

SEE SDD "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 45 MPH OR GREATER TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC" FOR TYPICAL SIDE ROAD APPROACH WARNING SIGN.

THOMAS ST
JEFFERSON AVE
WASHINGTON AVE
CTH GG
WEST ST
BENNETT ST
TYLER ST
LAYMAN DR
CEMETERY DR
CRESTVIEW LN
LINCOLN DR
STH 169
FAYETTE AVE
BAD RIVER
STH 77
LAKE DR
OLSON RD
TYLER AVE
WHITE AVE
BUTLER RD

STOP
R1-1
30"X30"

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	DETOUR ROUTE/TRAFFIC CONTROL - STAGE 2 OVERVIEW	SHEET 69	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\026002-S2.DWG
LAYOUT NAME - STAGE 2 OVERVIEW
PLOT DATE : 7/25/2022 4:16 PM
PLOT BY : RESHESKE, CARRIE
PLOT NAME :
PLOT SCALE : 1 IN:500 FT
WISDOT/CADDS SHEET 44

2

2

STH 13 NORTHBOUND TRAFFIC
STH 13 SOUTHBOUND TRAFFIC
ONE-WAY STH 13 NORTHBOUND TRAFFIC

STAGES 3A & 3B
TRAFFIC: STH 13 NB TRAFFIC WILL USE STH 77 TO OLSON RD TO STH 169. OLSON RD WILL BE ONE WAY IN THE NB DIRECTION FROM TYLER RD TO STH 169. STH 13 SB TRAFFIC WILL REMAIN ON EXISTING STH 13 AND SHIFT ACCORDING TO WORK ZONES.

N

THOMAS ST
JEFFERSON AVE
WASHINGTON AVE
BAD RIVER
CTH GG
WEST ST
BENNETT ST
TYLER ST
LAYMAN DR
CEMETERY DR
CRESTVIEW LN
LINCOLN DR
FAYETTE AVE
STH 77
LAKE DR
OLSON RD
TYLER AVE
WHITE AVE
BUTLER RD
STH 169

SEE SDD "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 45 MPH OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC" FOR SIGNS TO BE PLACED PRIOR TO THE INTERSECTION OF STH 13 AND GOLF COURSE ROAD.

STH 13 TRAFFIC SEE SDD "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 45 MPH OR GREATER TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC" FOR ADDITIONAL INFORMATION.

STH 77 TRAFFIC SEE SDD "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 40 MPH OR LESS TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC" FOR ADDITIONAL INFORMATION.

R3-1
24"X24"

DO NOT ENTER
R5-1
30"X30"

R3-2
24"X24"

R3-2
24"X24"

SIDE ROADS
JEFFERSON AVE
WASHINGTON AVE
FAYETTE AVE
CTH GG
BENNETT ST (2)
TYLER ST (3)
LAYMAN DR (2)
LINCOLN DR
CEMETERY DR
CRESTVIEW LN
WHITE AVE
BUTLER RD
STH 169
CTH C
GOLF COURSE RD

SEE SDD "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 45 MPH OR GREATER TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC" FOR TYPICAL SIDE ROAD APPROACH WARNING SIGN.

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	DETOUR ROUTE/TRAFFIC CONTROL - STAGES 3A & 3B OVERVIEW	SHEET 70	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\026003-S3AB.DWG
LAYOUT NAME - STAGE 3AB OVERVIEW
PLOT DATE : 7/25/2022 4:16 PM
PLOT BY : RESHESKE, CARRIE
PLOT NAME :
PLOT SCALE : 1 IN:500 FT

2

STAGE 3A NOTES

CONSTRUCTION:
- INSTALL SANITARY SEWER.

TRAFFIC:
- SB TRAFFIC WILL REMAIN ON STH 13 SB LANE.
- NB TRAFFIC WILL REMAIN ON STH 13 NB LANE, TURNING RIGHT ONTO STH 77 THEN USING OLSON RD.

BAD RIVER

N

ROAD CLOSED
R11-2
48"X30"

WO1-6
48"X24"

DO NOT ENTER
R5-1
30"X30"

1006+00 1007+00 1008+00 1009+00 1010+00 1011+00 1012+00 1013+00

STH 13

STH 77

R3-1
24"X24"

LEGEND
- TRAFFIC DIRECTION
- TRAFFIC CONTROL DRUMS WITH/WITHOUT TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL BARRICADES WITH/WITHOUT SIGN
- WORK ZONE
- POST WITH ATTACHED SIGN

CTH GG

LANE CLOSED
R11-2L
48"X30"

ROAD CLOSED
R11-2
48"X30"

R3-2
24"X24"

WO1-6
48"X24"

DRUMS @ 15' SPACING (TYP)

REMOVE MARKINGS FOR PARKING FROM RAILROAD TO TYLER ST

DRUM'S @ 25' SPACING (TYP)

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)

STH 13

1013+00 1014+00 1015+00 1016+00 1017+00 1018+00 1019+00 1020+00

STOP
R1-1
30"X30"

BENNETT ST

ROAD CLOSED TO THRU TRAFFIC
R11-4
60"X30"

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	TRAFFIC CONTROL - STAGE 3A	SHEET 71	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\026003-S3A.DWG
LAYOUT NAME - 026002-s3a

PLOT DATE : 7/25/2022 4:16 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

2

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (YELLOW)

DRUMS@ 25' SPACING (TYP)

W01-6
48"X24"

1021+00
1022+00
1023+00
1024+00
1025+00
1026+00
1027+00
1028+00

STH 13

TYLER ST

LAYMAN DR

CEMETERY DR

CRESTVIEW LN

1028+00
1029+00
1030+00
1031+00
1032+00
1033+00
1034+00
1035+00

STH 13

LINCOLN DR

LEGEND

- TRAFFIC DIRECTION
- TRAFFIC CONTROL DRUMS WITH/WITHOUT TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL BARRICADES WITH/WITHOUT SIGN
- WORK ZONE
- POST WITH ATTACHED SIGN

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	TRAFFIC CONTROL - STAGE 3A	SHEET 72	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\026003-S3A.DWG
LAYOUT NAME - 026003-s3a

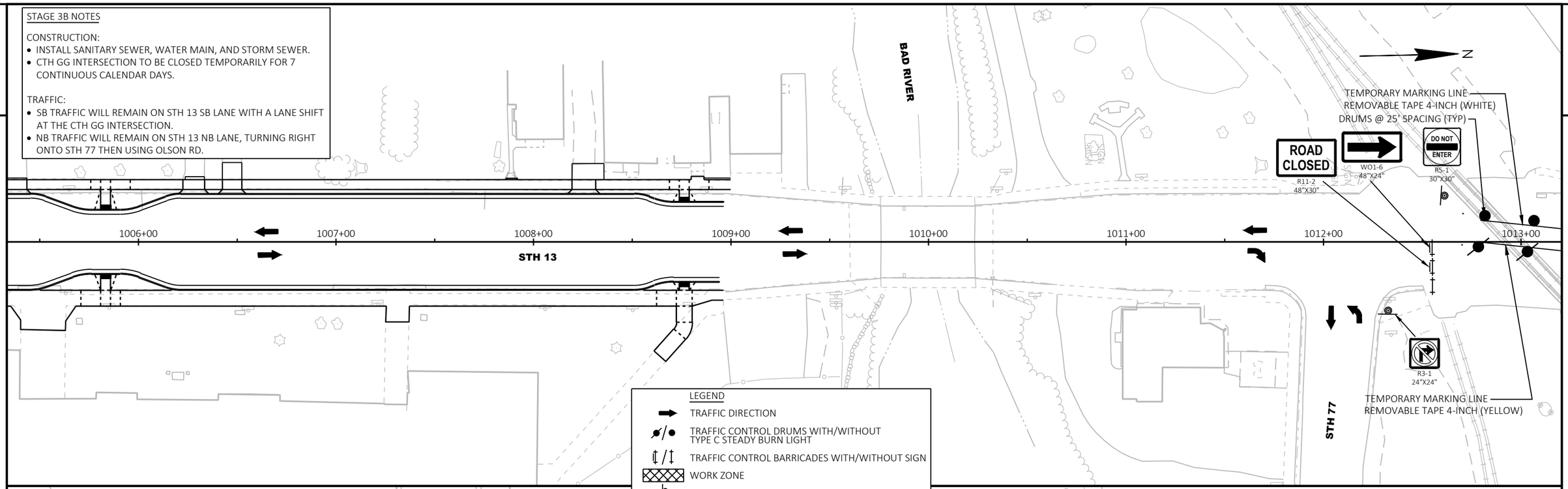
PLOT DATE : 7/25/2022 4:16 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

STAGE 3B NOTES

CONSTRUCTION:
- INSTALL SANITARY SEWER, WATER MAIN, AND STORM SEWER.
- CTH GG INTERSECTION TO BE CLOSED TEMPORARILY FOR 7 CONTINUOUS CALENDAR DAYS.

TRAFFIC:
- SB TRAFFIC WILL REMAIN ON STH 13 SB LANE WITH A LANE SHIFT AT THE CTH GG INTERSECTION.
- NB TRAFFIC WILL REMAIN ON STH 13 NB LANE, TURNING RIGHT ONTO STH 77 THEN USING OLSON RD.



PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	TRAFFIC CONTROL - STAGE 3B	SHEET 73 E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\026003-S3B.DWG
LAYOUT NAME - 026002-s1b

PLOT DATE : 7/25/2022 4:17 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

2

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (YELLOW)

DRUMS @ 25' SPACING (TYP)

W01-6
48"X24"

1021+00
1022+00
1023+00
1024+00
1025+00
1026+00
1027+00
1028+00

STH 13

TYLER ST

LAYMAN DR

LEGEND

- TRAFFIC DIRECTION
- TRAFFIC CONTROL DRUMS WITH/WITHOUT TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL BARRICADES WITH/WITHOUT SIGN
- WORK ZONE
- POST WITH ATTACHED SIGN

CEMETERY DR

CRESTVIEW LN

1028+00
1029+00
1030+00
1031+00
1032+00
1033+00
1034+00
1035+00

STH 13

LINCOLN DR

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	TRAFFIC CONTROL - STAGE 3B	SHEET 74	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\026003-S3B.DWG
LAYOUT NAME - 026003-s1b

PLOT DATE : 7/25/2022 4:17 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

STH 13 NORTHBOUND TRAFFIC
STH 13 SOUTHBOUND TRAFFIC
ONE-WAY STH 13 NORTHBOUND TRAFFIC

STAGES 3C & 3D
STH 13 NB AND STH 77 EB TRAFFIC WILL USE FAYETTE AVE TO STH 77. STH 13 NB TO OLSON RD TO STH 169. OLSON RD WILL BE ONE WAY IN THE NB DIRECTION FROM TYLER RD TO STH 169. STH 13 SB TRAFFIC WILL REMAIN THE SAME AS STAGES 3A & 3B. STH 77 WB TRAFFIC WILL USE FAYETTE AVE TO STH 13.

N

STH 13 TRAFFIC SEE SDD "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 45 MPH OR GREATER TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC" FOR ADDITIONAL INFORMATION.

SEE SDD "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 45 MPH OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC" FOR SIGNS TO BE PLACED PRIOR TO THE INTERSECTION OF STH 13 AND GOLF COURSE ROAD.

STH 77 TRAFFIC SEE SDD "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 40 MPH OR LESS TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC" FOR ADDITIONAL INFORMATION.

THOMAS ST
CTH GG
JEFFERSON AVE
WASHINGTON AVE
BAD RIVER
WEST ST
BENNETT ST
TYLER ST
LAYMAN DR
CEMETERY DR
CRESTVIEW LN
LINCOLN DR
FAYETTE AVE
STH 77
(5 BARRICADES)
ROAD CLOSED
R11-2
48"X30"
ROAD CLOSED TO THRU TRAFFIC
R11-4
60"X30"
STOP
R1-1
30"X30"
W3-1
W3-2
STH 169
LAKE DR
STH 71
OLSON RD
TYLER AVE
WHITE AVE
BUTLER RD
R3-1
24"X24"
DO NOT ENTER
R5-1
30"X30"
R3-2
24"X24"

SIDE ROADS
JEFFERSON AVE
WASHINGTON AVE
FAYETTE AVE
CTH GG
BENNETT ST (2)
TYLER ST (3)
LAYMAN DR (2)
LINCOLN DR
CEMETERY DR
CRESTVIEW LN
WHITE AVE
BUTLER RD
STH 169
CTH C
GOLF COURSE RD

SEE SDD "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 45 MPH OR GREATER TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC" FOR TYPICAL SIDE ROAD APPROACH WARNING SIGN.

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	DETOUR ROUTE/TRAFFIC CONTROL - STAGES 3C & 3D OVERVIEW	SHEET 75	E

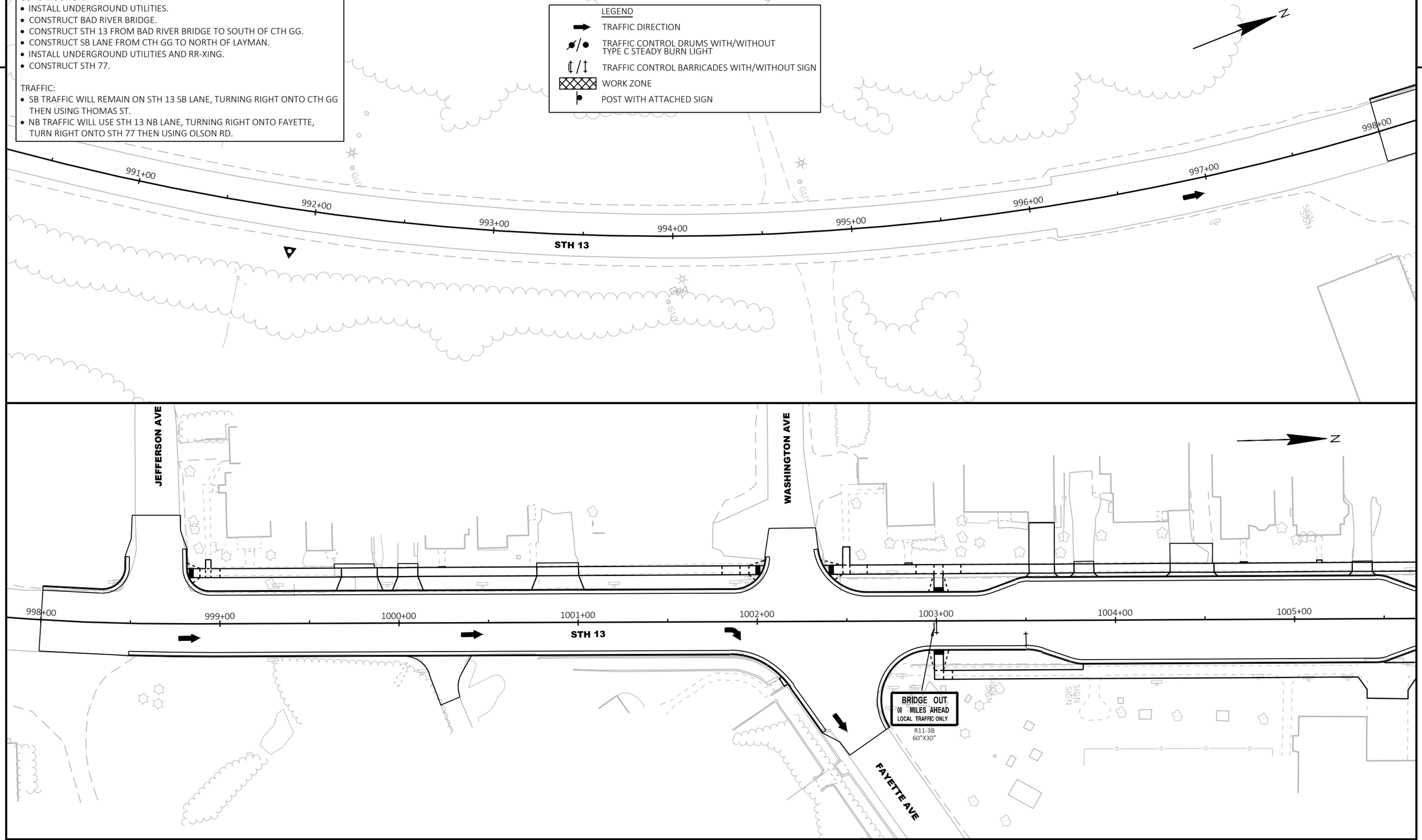
FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\026003-S3CD.DWG
LAYOUT NAME - STAGE 3CD OVERVIEW
PLOT DATE : 7/25/2022 4:17 PM
PLOT BY : RESHESKE, CARRIE
PLOT NAME :
PLOT SCALE : 1 IN:500 FT

STAGE 3C NOTES

CONSTRUCTION:
- INSTALL UNDERGROUND UTILITIES.
- CONSTRUCT BAD RIVER BRIDGE.
- CONSTRUCT STH 13 FROM BAD RIVER BRIDGE TO SOUTH OF CTH GG.
- CONSTRUCT SB LANE FROM CTH GG TO NORTH OF LAYMAN.
- INSTALL UNDERGROUND UTILITIES AND RR-XING.
- CONSTRUCT STH 77.

TRAFFIC:
- SB TRAFFIC WILL REMAIN ON STH 13 SB LANE, TURNING RIGHT ONTO CTH GG THEN USING THOMAS ST.
- NB TRAFFIC WILL USE STH 13 NB LANE, TURNING RIGHT ONTO FAYETTE, TURN RIGHT ONTO STH 77 THEN USING OLSON RD.

LEGEND
- TRAFFIC DIRECTION
- TRAFFIC CONTROL DRUMS WITH/WITHOUT TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL BARRICADES WITH/WITHOUT SIGN
- WORK ZONE
- POST WITH ATTACHED SIGN



PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	TRAFFIC CONTROL - STAGE 3C	SHEET 76 E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\026003-S3C.DWG
LAYOUT NAME - 026001-s3c
PLOT DATE : 7/25/2022 4:18 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

2

ROAD CLOSED
R11-2
48"X30"

BAD RIVER

N

1006+00 1007+00 1008+00 1009+00 1010+00 1011+00 1012+00 1013+00

STH 13

ROAD CLOSED
R11-2
48"X30"

STH 77

LEGEND

- TRAFFIC DIRECTION
- TRAFFIC CONTROL DRUMS WITH/WITHOUT TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL BARRICADES WITH/WITHOUT SIGN
- WORK ZONE
- POST WITH ATTACHED SIGN

ROAD CLOSED
R11-2
48"X30"

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (WHITE)

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (YELLOW)

ROAD CLOSED
R11-2
48"X30"

COVERING
SIGNS TYPE II

CTH GG

N

ROAD CLOSED
R11-2
48"X30"

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (WHITE)

1013+00 1014+00 1015+00 1016+00 1017+00 1018+00 1019+00 1020+00

STH 13

WO1-6
48"X24"

BRIDGE OUT
R11-2B
48"X30"

R3-1
24"X24"

WO1-6
48"X24"

DRUMS @ 25' SPACING (TYP)

WO1-6
48"X24"

BENNETT ST

ROAD CLOSED
R11-2
48"X30"

R3-1
24"X24"

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (YELLOW)

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	TRAFFIC CONTROL - STAGE 3C	SHEET 77	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\026003-S3C.DWG
LAYOUT NAME - 026002-s3c

PLOT DATE : 7/25/2022 4:18 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

NOTE:
COORDINATE ROAD CLOSED TRAFFIC CONTROL BARRICADE LOCATION WITH UNDERGROUND UTILITY WORK

ROAD CLOSED
R11-2
48"X30"

ROAD CLOSED
R11-2
48"X30"

ROAD CLOSED
R11-2
48"X30"

N

DRUMS @ 15' SPACING (TYP)

1021+00 1022+00 1023+00 1024+00 1025+00 1026+00 1027+00 1028+00

STH 13

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (YELLOW)

WO1-6
48"X24"

R3-1
24"X24"

ROAD CLOSED
R11-2
48"X30"

DRUMS @ 25' SPACING (TYP)

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (WHITE)

WO1-6
48"X24"

ROAD CLOSED
R11-2
48"X30"

R3-1
24"X24"

DRUMS @ 50' SPACING (TYP)

TYLER ST

LAYMAN DR

POST

SIGN

LEGEND

- TRAFFIC DIRECTION
- TRAFFIC CONTROL DRUMS WITH/WITHOUT TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL BARRICADES WITH/WITHOUT SIGN
- WORK ZONE
- POST WITH ATTACHED SIGN

CEMETERY DR

ROAD CLOSED
R11-2
48"X30"

NOTE:
COORDINATE WITH PROPERTY OWNERS TO MAINTAIN ACCESS

CRESTVIEW LN

ROAD CLOSED
R11-2
48"X30"

STA 1033+50 - STA 1035+00
REMOVE CENTERLINE MARKING

N

WO1-6
48"X24"

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (WHITE)

1029+00 1030+00 1031+00 1032+00 1033+00 1034+00 1035+00

STH 13

DRUMS @ 50' SPACING (TYP)

R3-1
24"X24"

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (YELLOW)

DRUMS @ 25' SPACING (TYP)

R3-1
24"X24"

LINCOLN DR

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	TRAFFIC CONTROL - STAGE 3C	SHEET 78	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\026003-S3C.DWG
LAYOUT NAME - 026003-s3c

PLOT DATE : 7/25/2022 4:18 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

2

N

1036+00 1037+00 1038+00 1039+00 1040+00 1041+00 1042+00 1043+00

STH 13

STH 169

TYLER ST

TYLER ST

LEGEND

TRAFFIC DIRECTION

TRAFFIC CONTROL DRUMS WITH/WITHOUT TYPE C STEADY BURN LIGHT

TRAFFIC CONTROL BARRICADES WITH/WITHOUT SIGN

WORK ZONE

POST WITH ATTACHED SIGN

NOTE:
COORDINATE ROAD CLOSED TRAFFIC CONTROL BARRICADE LOCATION WITH UNDERGROUND UTILITY WORK

ROAD CLOSED
R11-2

102+00

102+00

102+00

MP

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	TRAFFIC CONTROL - STAGE 3C	SHEET 79	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\026003-S3C.DWG
LAYOUT NAME - 026004-s3c

PLOT DATE : 7/25/2022 4:18 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

STAGE 3D NOTES

CONSTRUCTION:.

- CONSTRUCT NB LANE FROM CTH GG TO JUST NORTH OF LAYMAN.
- INSTALL UNDERGROUND UTILITIES.
- CONTINUE CONSTRUCTION OF BAD RIVER BRIDGE.

TRAFFIC:

- SB TRAFFIC WILL REMAIN ON STH 13 SB LANE, TURNING RIGHT ONTO CTH GG THEN USING THOMAS ST.
- NB TRAFFIC WILL REMAIN ON STH 13 NB LANE, TURNING RIGHT ONTO FAYETTE, RIGHT ONTO STH 77 THEN USING OLSON RD.
- BASED ON TURNING MOVEMENTS, A WB-62 CANNOT MAKE A RIGHT TURN ONTO CTH GG WITHOUT MAJOR ENCROACHMENTS NEAR THE NW CORNER OF THE STH 13/CTH GG INTERSECTION. SINGLE UNIT (SU) TRUCK CAN MAKE THE RIGHT TURN WITHOUT ENCROACHMENT.

LEGEND

- TRAFFIC DIRECTION
- TRAFFIC CONTROL DRUMS WITH/WITHOUT TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL BARRICADES WITH/WITHOUT SIGN
- WORK ZONE
- POST WITH ATTACHED SIGN

N

991+00 992+00 993+00 994+00 995+00 996+00 997+00 998+00

STH 13

JEFFERSON AVE

WASHINGTON AVE

N

998+00 999+00 1000+00 1001+00 1002+00 1003+00 1004+00 1005+00

STH 13

BRIDGE OUT
00 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3B
60"X30"

FAYETTE AVE

2

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	TRAFFIC CONTROL - STAGE 3D	SHEET 80	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\026003-S3D.DWG
LAYOUT NAME - 026001-s3d

PLOT DATE : 7/25/2022 4:18 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

2

ROAD CLOSED
R11-2
48"X30"

BAD RIVER

N

1006+00 1007+00 1008+00 1009+00 1010+00 1011+00 1012+00 1013+00

STH 13

BRIDGE OUT
R11-2B
48"X30"

STH 77

LEGEND

- TRAFFIC DIRECTION
- TRAFFIC CONTROL DRUMS WITH/WITHOUT TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL BARRICADES WITH/WITHOUT SIGN
- WORK ZONE
- POST WITH ATTACHED SIGN

ROAD CLOSED
R11-2
48"X30"

CTH GG

COVERING SIGNS TYPE II

WO1-6
48"X24"

BRIDGE OUT
R11-2B
48"X30"

R3-2
24"X24"

WO1-6
48"X24"

N

R3-2
24"X24"

WO1-6
48"X24"

ROAD CLOSED
R11-2
48"X30"

R3-2
24"X24"

1013+00 1014+00 1015+00 1016+00 STH 13 1017+00 1018+00 1019+00 1020+00

DRUMS @ 25' SPACING (TYP)

DRUMS @ 15' SPACING (TYP)

ROAD CLOSED
R11-2
48"X30"

ROAD CLOSED
R11-2
48"X30"

BENNETT ST

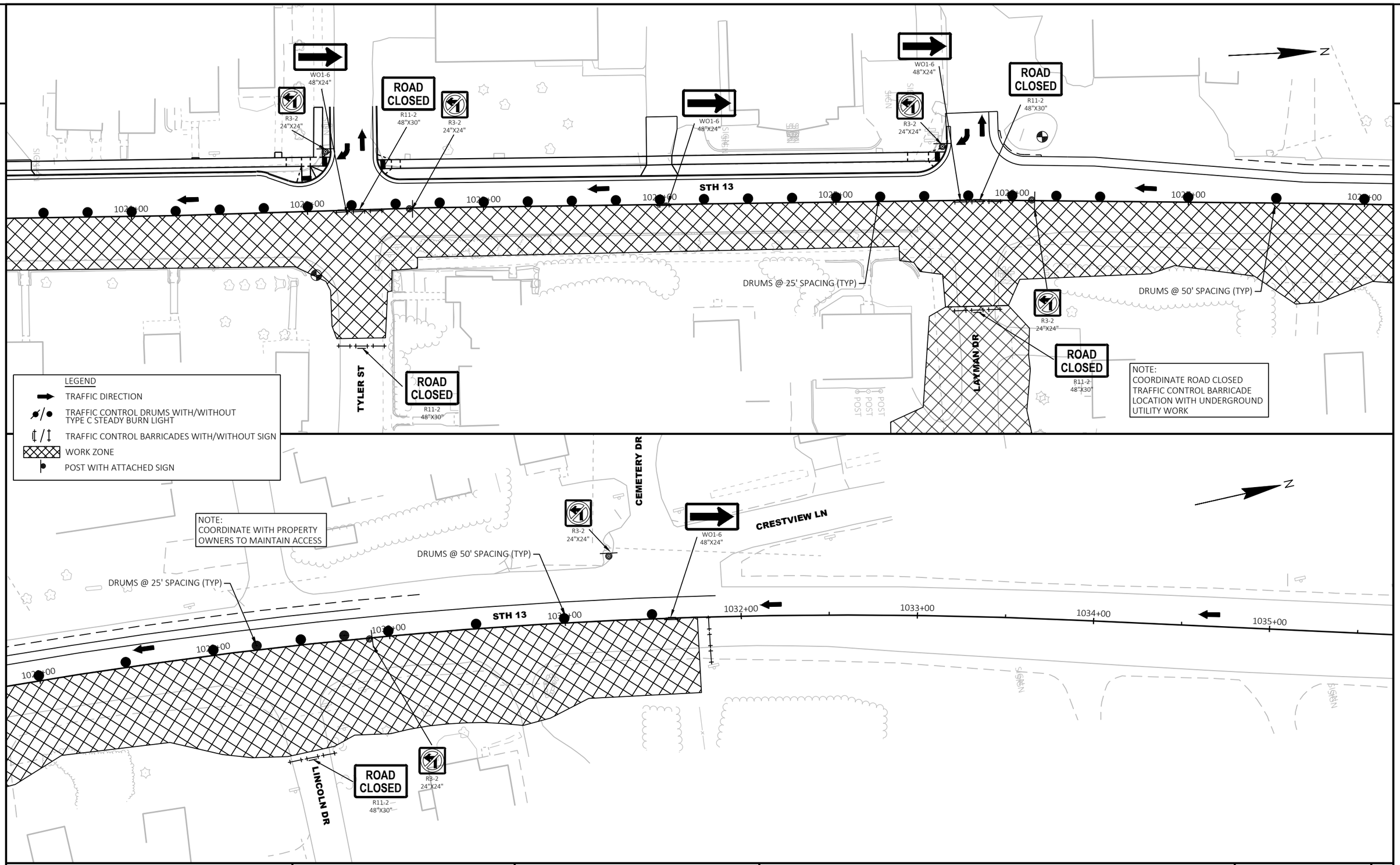
ROAD CLOSED
R11-2
48"X30"

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	TRAFFIC CONTROL - STAGE 3D	SHEET 81	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\026003-S3D.DWG
LAYOUT NAME - 026002-s3d

PLOT DATE : 7/25/2022 4:18 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:50 FT

2



PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	TRAFFIC CONTROL - STAGE 3D	SHEET 82	E

2

2

N

1036+00 1037+00 1038+00 1039+00 1040+00 1041+00 1042+00 1043+00

STH 13

STH 169

LEGEND

TRAFFIC DIRECTION

TRAFFIC CONTROL DRUMS WITH/WITHOUT TYPE C STEADY BURN LIGHT

TRAFFIC CONTROL BARRICADES WITH/WITHOUT SIGN

WORK ZONE

POST WITH ATTACHED SIGN

NOTE:
COORDINATE ROAD CLOSED TRAFFIC CONTROL BARRICADE LOCATION WITH UNDERGROUND UTILITY WORK

LAYMAN DR

LAYMAN DR

IRON ST

ROAD CLOSED
R11-2

SIGN

POST

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	TRAFFIC CONTROL - STAGE 3D	SHEET 83	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\026003-S3D.DWG
LAYOUT NAME - 026004-s3d

PLOT DATE : 7/25/2022 4:18 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

TRAFFIC CONTROL NOTES:

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

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

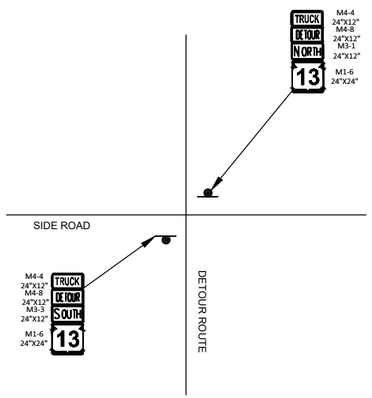
"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND SHALL BE ORANGE.

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

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

TRUCK DETOUR REASSURANCES TO BE PLACED AT THE FOLLOWING LOCATIONS:

- **CTH G (ON USH 51)**
- **CTH J (ON USH 51)**
- **SHADY KNOLL ROAD (ON STH 182)**



PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	DETOUR OVERVIEW	SHEET 84	E

2

2

TD1

STH 13

STH 182

N

NORTH
13

EAST
182

SOUTH
13

END
TRUCK
DETOUR
SOUTH
13

M4-6
24"X12"
M4-4
24"X12"
M4-8
24"X12"
M3-3
24"X12"
M1-6
24"X24"

JCT
13
END
182

TRUCK
DETOUR
NORTH
13

M4-4
24"X12"
M4-8
24"X12"
M3-1
24"X12"
M1-6
24"X24"

182
13

MO6-1
21"X21"

TRUCK
DETOUR
NORTH
13

M4-4
24"X12"
M4-8
24"X12"
M3-1
24"X12"
M1-6
24"X24"

EAST
182
13

TRUCK
DETOUR
NORTH
13

M4-4
24"X12"
M4-8
24"X12"
M3-1
24"X12"
M1-6
24"X24"

DETOUR
AHEAD
W20-2A

HWY 13 NORTH
CLOSED AT MELLEN
TRUCKS
FOLLOW DETOUR

FIXED MESSAGE SIGN
96"X48"

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	DETOUR DETAIL TD1	SHEET 85	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\027001-DT.DWG
LAYOUT NAME - TD-1

PLOT DATE : 8/17/2022 11:55 AM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 44

TD2

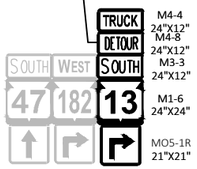
STH 47

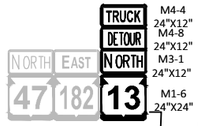
STH 182

N

2

2

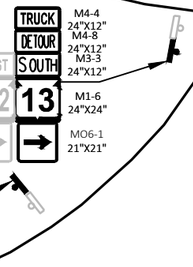


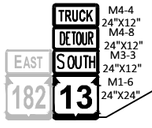


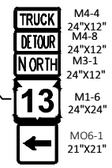


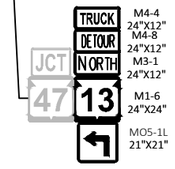












PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	DETOUR DETAIL TD2	SHEET 86	E

TD3

USH 51

STH 47

JCT JCT
47 182

TRUCK
DETOUR
NORTH
13

M4-4
24"X12"
M4-8
24"X12"
M3-1
24"X12"
M1-6
24"X24"

NORTH SOUTH
51 51

SOUTH WEST
47 182

SOUTH WEST NORTH
47 182 51

JCT JCT
47 182

M4-4
24"X12"
TRUCK
DETOUR
SOUTH
13
M4-8
24"X12"
M3-3
24"X12"
M1-6
24"X24"
MO5-1R
21"X21"

SOUTH SOUTH WEST
51 47 182

M4-4
24"X12"
TRUCK
DETOUR
SOUTH
13
M4-8
24"X12"
M3-3
24"X12"
M1-6
24"X24"
MO6-1
21"X21"

SOUTH WEST
47 182

M4-4
24"X12"
TRUCK
DETOUR
SOUTH
13
M4-8
24"X12"
M3-3
24"X12"
M1-6
24"X24"

M4-4
24"X12"
TRUCK
DETOUR
NORTH
13
M4-8
24"X12"
M3-1
24"X12"
M1-6
24"X24"
MO6-1
21"X21"

JCT END END
51 47 182

M4-4
24"X12"
TRUCK
DETOUR
NORTH
13
M4-8
24"X12"
M3-1
24"X12"
M1-6
24"X24"
MO5-1L
21"X21"

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	DETOUR DETAIL TD3	SHEET 87	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\027001-DT.DWG
LAYOUT NAME - TD-3

PLOT DATE : 7/25/2022 4:19 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : ##########

2

TD4

USH 2

501

N

M4-4 24"X12"
M4-8 24"X12"
M3-1 24"X12"
M1-6 24"X24"
TRUCK
DETOUR
NORTH
13

HWY 13 SOUTH
CLOSED
TRUCKS FOLLOW
HWY 51 SOUTH
FIXED MESSAGE SIGN
84"X48"

M4-4 24"X12"
M3-3 24"X12"
M1-6 24"X24"
TRUCK
SOUTH
13

DETOUR
AHEAD
W20-2A

HWY 13 SOUTH
CLOSED AT MELLEN
TRUCKS
FOLLOW DETOUR
FIXED MESSAGE SIGN
96"X48"

M4-4 24"X12"
M4-8 24"X12"
M3-3 24"X12"
M1-6 24"X24"
TRUCK
DETOUR
SOUTH
13

HWY 13 NORTH
TRUCK DETOUR
FOLLOW
HWY 2 WEST
FIXED MESSAGE SIGN
72"X48"

USH 51

M4-4 24"X12"
M4-8 24"X12"
M3-3 24"X12"
M1-6 24"X24"
MO6-1 21"X21"
TRUCK
DETOUR
SOUTH
13

M4-4 24"X12"
M4-8 24"X12"
M3-1 24"X12"
M1-6 24"X24"
TRUCK
DETOUR
NORTH
13

M4-4 24"X12"
M4-8 24"X12"
M3-3 24"X12"
M1-6 24"X24"
TRUCK
DETOUR
SOUTH
13

M4-4 24"X12"
M4-8 24"X12"
M3-1 24"X12"
M1-6 24"X24"
MO6-1 21"X21"
TRUCK
DETOUR
NORTH
13

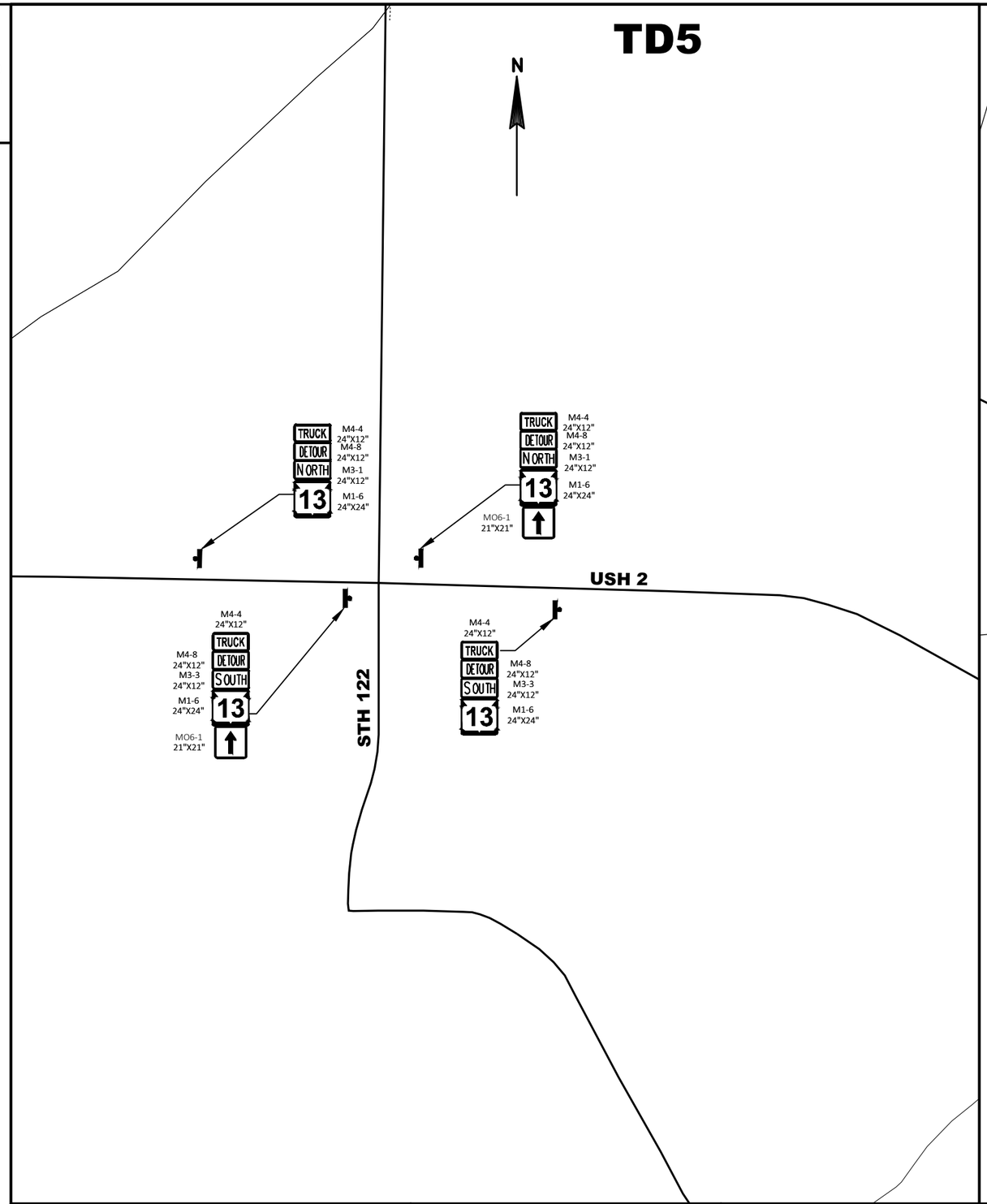
STH 77

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	DETOUR DETAIL TD4	SHEET 88	E

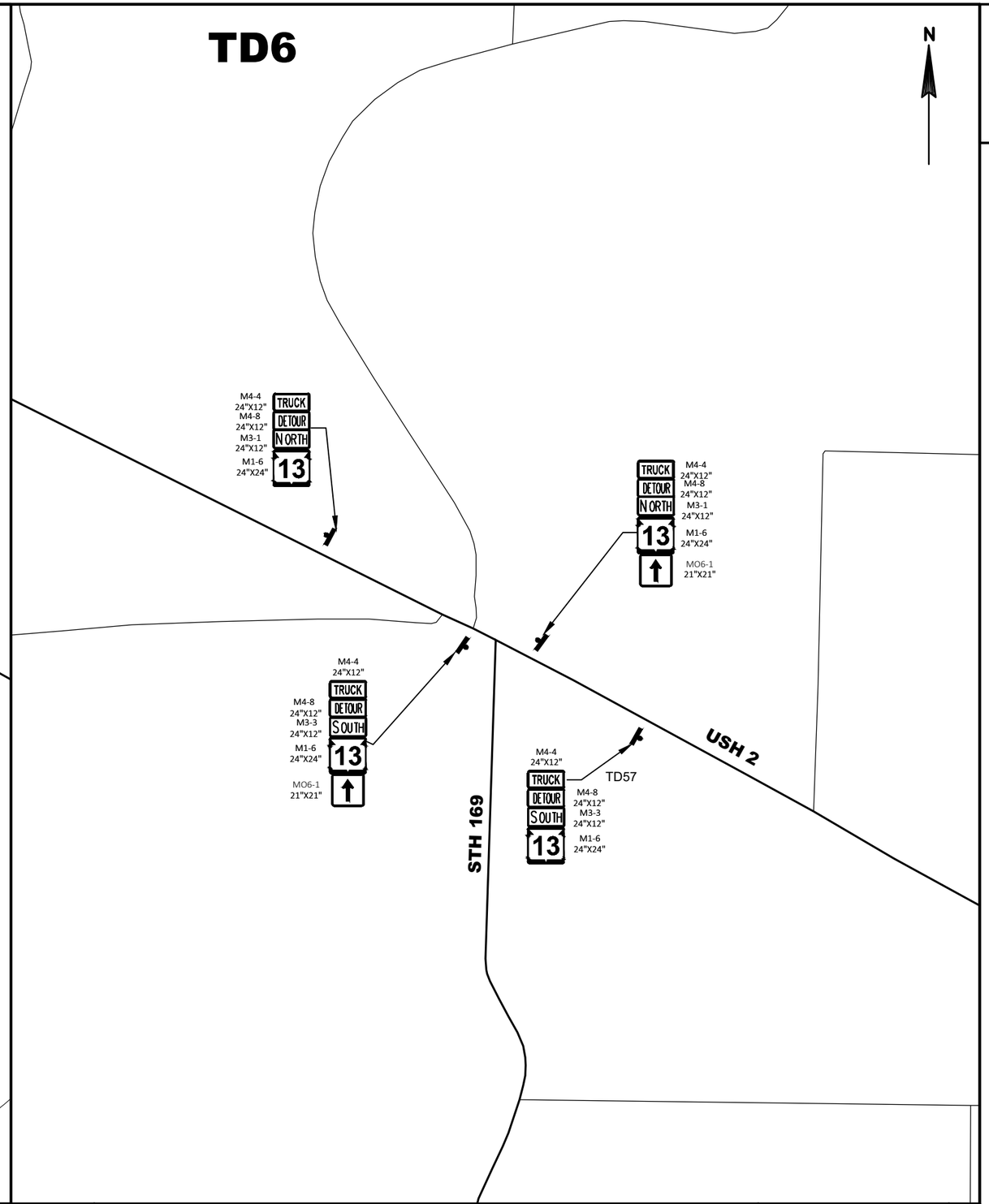
FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\027001-DT.DWG
LAYOUT NAME - TD-4

PLOT DATE : 8/17/2022 11:54 AM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : ##########

TD5



TD6



PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	DETOUR DETAIL TD5 & TD6	SHEET 89	E

TD7

2

2

N

USH 2

STH 13

END M4-6 24"X12"
TRUCK M4-4 24"X12"
DETOUR M4-8 24"X12"
NORTH M3-1 24"X12"
13 M1-6 24"X24"

SOUTH WEST NORTH
13 2 13

M4-4 24"X12"
TRUCK
DETOUR
SOUTH
13
M4-8 24"X12"
M3-3 24"X12"
M1-6 24"X24"

M4-4 24"X12"
TRUCK
DETOUR
SOUTH
13
M4-8 24"X12"
M3-3 24"X12"
M1-6 24"X24"
MO6-1 21"X21"

EAST SOUTH
2 13

M4-4 24"X12"
TRUCK
DETOUR
SOUTH
13
M4-8 24"X12"
M3-3 24"X12"
M1-6 24"X24"

EAST SOUTH
2 13

DETOUR AHEAD
W20-2A

HWY 13 SOUTH
CLOSED AT MELLEN
TRUCKS
FOLLOW DETOUR
FIXED MESSAGE SIGN
96"X48"

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	DETOUR DETAIL TD7	SHEET 90	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\027001-DT.DWG
LAYOUT NAME - TD-7

PLOT DATE : 8/17/2022 11:53 AM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : ##########

Line	Item	Item Description	Unit	Total	1610-00-76 Qty	1610-00-78 Qty	1610-00-86 Qty
0002	201.0105	Clearing	STA	11.000	11.000		
0004	201.0205	Grubbing	STA	11.000	11.000		
0006	203.0100	Removing Small Pipe Culverts	EACH	3.000	3.000		
0008	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. B-2-33	EACH	1.000	1.000		
0010	204.0100	Removing Concrete Pavement	SY	8,011.000	8,011.000		
0012	204.0110	Removing Asphaltic Surface	SY	3,696.000	1,244.000	2,452.000	
0014	204.0115	Removing Asphaltic Surface Butt Joints	SY	257.000	257.000		
0016	204.0120	Removing Asphaltic Surface Milling	SY	50,365.000	50,365.000		
0018	204.0150	Removing Curb & Gutter	LF	4,466.000	4,466.000		
0020	204.0155	Removing Concrete Sidewalk	SY	2,414.000	2,414.000		
0022	204.0170	Removing Fence	LF	95.000	95.000		
0024	204.0195	Removing Concrete Bases	EACH	10.000	10.000		
0026	204.0210	Removing Manholes	EACH	9.000	3.000	6.000	
0028	204.0215	Removing Catch Basins	EACH	5.000	5.000		
0030	204.0220	Removing Inlets	EACH	10.000	10.000		
0032	204.0245	Removing Storm Sewer (size) 01. 8-Inch	LF	240.000	240.000		
0034	204.0245	Removing Storm Sewer (size) 02. 12-Inch	LF	86.000	86.000		
0036	204.0245	Removing Storm Sewer (size) 03. 15-Inch	LF	42.000	42.000		
0038	204.0245	Removing Storm Sewer (size) 04. 18-Inch	LF	774.000	774.000		
0040	204.0245	Removing Storm Sewer (size) 05. 24-Inch	LF	118.000	118.000		
0042	204.0291.S	Abandoning Sewer	CY	150.000		150.000	
0044	204.9090.S	Removing (item description) 01. Retaining Wall R-2-12	LF	273.000	273.000		
0046	205.0100	Excavation Common	CY	14,595.000	14,595.000		
0048	205.0501.S	Excavation, Hauling, and Disposal of Petroleum Contaminated Soil	TON	240.000	240.000		
0050	206.1001	Excavation for Structures Bridges (structure) 01. B-2-74	EACH	1.000	1.000		
0052	206.3001	Excavation for Structures Retaining Walls (structure) 01. R-2-15	EACH	1.000	1.000		
0054	206.5001	Cofferdams (structure) 01. B-2-74	EACH	1.000	1.000		
0056	210.1500	Backfill Structure Type A	TON	1,960.000	1,960.000		
0058	211.0101	Prepare Foundation for Asphaltic Paving (project) 01. 1610-00-76	EACH	1.000	1.000		
0060	213.0100	Finishing Roadway (project) 01. 1610-00-76	EACH	1.000	1.000		
0062	305.0110	Base Aggregate Dense 3/4-Inch	TON	1,495.000	1,495.000		
0064	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	15,745.000	14,598.000	1,147.000	
0066	305.0500	Shaping Shoulders	STA	181.000	181.000		
0068	350.0145	Subbase 12-Inch	SY	14,981.000	14,981.000		
0070	415.0410	Concrete Pavement Approach Slab	SY	80.000	80.000		
0072	416.0160	Concrete Driveway 6-Inch	SY	524.000	505.000	19.000	
0074	450.4000	HMA Cold Weather Paving	TON	1,392.000	1,392.000		
0076	455.0605	Tack Coat	GAL	3,641.000	3,641.000		
0078	460.2000	Incentive Density HMA Pavement	DOL	9,598.000	9,598.000		
0080	460.6243	HMA Pavement 3 MT 58-34 S	TON	2,800.000	2,800.000		
0082	460.6645	HMA Pavement 5 MT 58-34 V	TON	10,786.000	10,786.000		
0084	465.0105	Asphaltic Surface	TON	1,670.000	1,324.000	346.000	
0086	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	86.000	86.000		
0088	465.0125	Asphaltic Surface Temporary	TON	200.000	200.000		
0090	465.0315	Asphaltic Flumes	SY	12.000	12.000		
0092	465.0425	Asphaltic Shoulder Rumble Strips 2-Lane Rural	LF	22,310.000			22,310.000
0094	465.0475	Asphalt Centerline Rumble Strips 2-Lane Rural	LF	11,155.000	11,155.000		
0096	502.0100	Concrete Masonry Bridges	CY	485.000	485.000		
0098	502.3200	Protective Surface Treatment	SY	440.000	440.000		

					1610-00-76	1610-00-78	1610-00-86
Line	Item	Item Description	Unit	Total	Qty	Qty	Qty
0100	502.3210	Pigmented Surface Sealer	SY	72.000	72.000		
0102	502.9000.S	Underwater Substructure Inspection (structure) 01. B-2-74	EACH	1.000	1.000		
0104	504.0500	Concrete Masonry Retaining Walls	CY	182.000	182.000		
0106	505.0400	Bar Steel Reinforcement HS Structures	LB	19,530.000	19,530.000		
0108	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	57,870.000	57,870.000		
0110	511.1200	Temporary Shoring (structure) 01. R-2-15	SF	3,025.000	3,025.000		
0112	513.2001	Railing Pipe	LF	5.000		5.000	
0114	513.7016	Railing Steel Type C3	LF	205.000	205.000		
0116	516.0500	Rubberized Membrane Waterproofing	SY	28.000	28.000		
0118	517.1015.S	Concrete Staining Multi-Color (structure) 01. R-2-15	SF	1,400.000	1,400.000		
0120	517.1050.S	Architectural Surface Treatment (structure) 01. R-2-15	SF	1,400.000	1,400.000		
0122	520.1018	Apron Endwalls for Culvert Pipe 18-Inch	EACH	2.000	2.000		
0124	520.3324	Culvert Pipe Class III-A 24-Inch	LF	46.000	46.000		
0126	520.3330	Culvert Pipe Class III-A 30-Inch	LF	84.000	84.000		
0128	521.1024	Apron Endwalls for Culvert Pipe Steel 24-Inch	EACH	2.000	2.000		
0130	521.1030	Apron Endwalls for Culvert Pipe Steel 30-Inch	EACH	4.000	4.000		
0132	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	2.000	2.000		
0134	550.0500	Pile Points	EACH	29.000	29.000		
0136	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	1,060.000	1,060.000		
0138	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	6,592.000	5,720.000	872.000	
0140	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	59.000	59.000		
0142	601.0600	Concrete Curb Pedestrian	LF	33.000	33.000		
0144	602.0405	Concrete Sidewalk 4-Inch	SF	26,190.000	25,486.000	704.000	
0146	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	370.000	370.000		
0148	602.1500	Concrete Steps	SF	38.000		38.000	
0150	606.0100	Riprap Light	CY	256.000	256.000		
0152	606.0300	Riprap Heavy	CY	200.000	200.000		
0154	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	1,864.000	1,864.000		
0156	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	116.000	116.000		
0158	608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	LF	32.000	32.000		
0160	608.0418	Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	LF	43.000	43.000		
0162	608.2419	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 19x30-Inch	LF	81.000	81.000		
0164	608.3012	Storm Sewer Pipe Class III-A 12-Inch	LF	486.000	486.000		
0166	608.3015	Storm Sewer Pipe Class III-A 15-Inch	LF	47.000	47.000		
0168	608.3018	Storm Sewer Pipe Class III-A 18-Inch	LF	251.000	251.000		
0170	611.0530	Manhole Covers Type J	EACH	7.000	7.000		
0172	611.0624	Inlet Covers Type H	EACH	33.000	33.000		
0174	611.0627	Inlet Covers Type HM	EACH	1.000	1.000		
0176	611.1004	Catch Basins 4-FT Diameter	EACH	14.000	14.000		
0178	611.1005	Catch Basins 5-FT Diameter	EACH	3.000	3.000		
0180	611.1230	Catch Basins 2x3-FT	EACH	17.000	17.000		
0182	611.2004	Manholes 4-FT Diameter	EACH	5.000	5.000		
0184	611.2005	Manholes 5-FT Diameter	EACH	1.000	1.000		
0186	611.2007	Manholes 7-FT Diameter	EACH	1.000	1.000		
0188	611.8120.S	Cover Plates Temporary	EACH	2.000	2.000		
0190	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	545.000	545.000		
0192	618.0100	Maintenance And Repair of Haul Roads (project) 01. 1610-00-76	EACH	1.000	1.000		
0194	619.1000	Mobilization	EACH	1.000	1.000		
0196	624.0100	Water	MGAL	370.000	370.000		

Line	Item	Item Description	Unit	Total	1610-00-76 Qty	1610-00-78 Qty	1610-00-86 Qty
0198	625.0100	Topsoil	SY	6,730.000	6,730.000		
0200	625.0500	Salvaged Topsoil	SY	1,720.000		1,720.000	
0202	627.0200	Mulching	SY	4,496.000	1,640.000	2,856.000	
0204	628.1504	Silt Fence	LF	375.000	375.000		
0206	628.1520	Silt Fence Maintenance	LF	375.000	375.000		
0208	628.1905	Mobilizations Erosion Control	EACH	5.000	5.000		
0210	628.1910	Mobilizations Emergency Erosion Control	EACH	5.000	5.000		
0212	628.2006	Erosion Mat Urban Class I Type A	SY	3,290.000	3,290.000		
0214	628.2023	Erosion Mat Class II Type B	SY	1,795.000	1,795.000		
0216	628.6005	Turbidity Barriers	SY	213.000	213.000		
0218	628.7005	Inlet Protection Type A	EACH	49.000	49.000		
0220	628.7015	Inlet Protection Type C	EACH	41.000	41.000		
0222	628.7504	Temporary Ditch Checks	LF	158.000	158.000		
0224	628.7555	Culvert Pipe Checks	EACH	20.000	20.000		
0226	629.0205	Fertilizer Type A	CWT	1.800		1.800	
0228	629.0210	Fertilizer Type B	CWT	5.000	5.000		
0230	630.0140	Seeding Mixture No. 40	LB	171.000	120.000	51.000	
0232	630.0200	Seeding Temporary	LB	32.000	32.000		
0234	630.0500	Seed Water	MGAL	150.000	150.000		
0236	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	31.000	31.000		
0238	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	32.000	32.000		
0240	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	9.000	9.000		
0242	637.2210	Signs Type II Reflective H	SF	306.400	306.400		
0244	637.2220	Signs Type II Reflective SH	SF	13.250	13.250		
0246	637.2230	Signs Type II Reflective F	SF	121.210	121.210		
0248	638.2602	Removing Signs Type II	EACH	65.000	65.000		
0250	638.3000	Removing Small Sign Supports	EACH	68.000	68.000		
0252	642.5001	Field Office Type B	EACH	1.000	1.000		
0254	643.0300	Traffic Control Drums	DAY	13,110.000	13,110.000		
0256	643.0420	Traffic Control Barricades Type III	DAY	6,210.000	6,210.000		
0258	643.0705	Traffic Control Warning Lights Type A	DAY	8,160.000	8,160.000		
0260	643.0715	Traffic Control Warning Lights Type C	DAY	2,280.000	2,280.000		
0262	643.0900	Traffic Control Signs	DAY	29,490.000	29,490.000		
0264	643.0920	Traffic Control Covering Signs Type II	EACH	8.000	8.000		
0266	643.1000	Traffic Control Signs Fixed Message	SF	240.000	240.000		
0268	643.3120	Temporary Marking Line Epoxy 4-Inch	LF	974.000	974.000		
0270	643.3150	Temporary Marking Line Removable Tape 4-Inch	LF	8,231.000	8,231.000		
0272	643.5000	Traffic Control	EACH	1.000	1.000		
0274	644.1440	Temporary Pedestrian Surface Matting	SF	1,152.000	1,152.000		
0276	644.1601	Temporary Pedestrian Curb Ramp	DAY	1,080.000	1,080.000		
0278	644.1605	Temporary Pedestrian Detectable Warning Field	SF	288.000	288.000		
0280	645.0111	Geotextile Type DF Schedule A	SY	140.000	140.000		
0282	645.0120	Geotextile Type HR	SY	370.000	370.000		
0284	645.0130	Geotextile Type R	SY	367.000	367.000		
0286	646.1020	Marking Line Epoxy 4-Inch	LF	8,861.000	8,861.000		
0288	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	23,144.000	23,144.000		
0290	646.3020	Marking Line Epoxy 8-Inch	LF	350.000	350.000		
0292	646.4520	Marking Line Same Day Epoxy 4-Inch	LF	21,672.000	21,672.000		
0294	646.5320	Marking Railroad Crossings Epoxy	EACH	3.000	3.000		

Line	Item	Item Description	Unit	Total	1610-00-76 Qty	1610-00-78 Qty	1610-00-86 Qty
0296	646.6120	Marking Stop Line Epoxy 18-Inch	LF	43.000	43.000		
0298	646.7020	Marking Diagonal Epoxy 6-Inch	LF	122.000	122.000		
0300	646.7120	Marking Diagonal Epoxy 12-Inch	LF	68.000	68.000		
0302	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	646.000	646.000		
0304	646.7520	Marking Crosswalk Epoxy Block Style 24-Inch	LF	291.000	291.000		
0306	646.8120	Marking Curb Epoxy	LF	10.000	10.000		
0308	646.8220	Marking Island Nose Epoxy	EACH	1.000	1.000		
0310	646.9000	Marking Removal Line 4-Inch	LF	1,150.000	1,150.000		
0312	650.4000	Construction Staking Storm Sewer	EACH	46.000	46.000		
0314	650.4500	Construction Staking Subgrade	LF	2,866.000	2,866.000		
0316	650.5000	Construction Staking Base	LF	2,866.000	2,866.000		
0318	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	5,536.000	5,536.000		
0320	650.6501	Construction Staking Structure Layout (structure) 01. B-2-74	EACH	1.000	1.000		
0322	650.6501	Construction Staking Structure Layout (structure) 01. R-2-15	EACH	1.000	1.000		
0324	650.8000	Construction Staking Resurfacing Reference	LF	18,057.000	18,057.000		
0326	650.8501	Construction Staking Electrical Installations (project) 01. 1610-00-76	EACH	2.000	2.000		
0328	650.9000	Construction Staking Curb Ramps	EACH	35.000	35.000		
0330	650.9500	Construction Staking Sidewalk (project) 01. 1610-00-76	EACH	1.000	1.000		
0332	650.9911	Construction Staking Supplemental Control (project) 01. 1610-00-76	EACH	1.000	1.000		
0334	650.9920	Construction Staking Slope Stakes	LF	1,898.000	1,898.000		
0336	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	4,219.000	4,219.000		
0338	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	33.000	33.000		
0340	653.0164	Pull Boxes Non-Conductive 24x42-Inch	EACH	23.000	23.000		
0342	654.0105	Concrete Bases Type 5	EACH	10.000	10.000		
0344	654.0224	Concrete Control Cabinet Bases Type L24	EACH	1.000	1.000		
0346	654.0230	Concrete Control Cabinet Bases Type L30	EACH	1.000	1.000		
0348	655.0610	Electrical Wire Lighting 12 AWG	LF	3,330.000	3,330.000		
0350	655.0615	Electrical Wire Lighting 10 AWG	LF	810.000	810.000		
0352	655.0620	Electrical Wire Lighting 8 AWG	LF	15,972.000	15,972.000		
0354	655.0625	Electrical Wire Lighting 6 AWG	LF	3,262.000	3,262.000		
0356	655.0630	Electrical Wire Lighting 4 AWG	LF	854.000	854.000		
0358	656.0201	Electrical Service Meter Breaker Pedestal (location) 01. STA 1022+49	EACH	1.000	1.000		
0360	656.0201	Electrical Service Meter Breaker Pedestal (location) 02. STA 1002+45	EACH	1.000	1.000		
0362	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	10.000	10.000		
0364	657.0322	Poles Type 5-Aluminum	EACH	10.000	10.000		
0366	657.0615	Luminaire Arms Single Member 4 1/2-Inch Clamp 8-FT	EACH	10.000	10.000		
0368	659.1125	Luminaires Utility LED C	EACH	10.000	10.000		
0370	659.2124	Lighting Control Cabinets 120/240 24-Inch	EACH	1.000	1.000		
0372	659.2130	Lighting Control Cabinets 120/240 30-Inch	EACH	1.000	1.000		
0374	690.0150	Sawing Asphalt	LF	4,475.000	3,580.000	895.000	
0376	690.0250	Sawing Concrete	LF	645.000	645.000		
0378	715.0502	Incentive Strength Concrete Structures	DOL	4,002.000	4,002.000		
0380	740.0440	Incentive IRI Ride	DOL	11,840.000	11,840.000		
0382	999.1001.S	Seismograph 01. 1610-00-76	EACH	1.000	1.000		
0384	999.1501.S	Crack and Damage Survey 01. 1610-00-76	EACH	1.000	1.000		
0386	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 01. 1010+00	EACH	1.000	1.000		
0388	999.2005.S	Maintaining Bird Deterrent System (station) 01. 1010+00	EACH	1.000	1.000		
0390	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,400.000	2,400.000		
0392	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	2,000.000	2,000.000		

Line	Item	Item Description	Unit	Total	1610-00-76 Qty	1610-00-78 Qty	1610-00-86 Qty
0394	SPV.0060	Special 01. Abandon Existing Water Main	EACH	17.000		17.000	
0396	SPV.0060	Special 02. Salvage Existing Hydrant	EACH	6.000		6.000	
0398	SPV.0060	Special 05. Abandon Existing Valve	EACH	7.000		7.000	
0400	SPV.0060	Special 06. Gate Valve and Box 6-Inch	EACH	22.000		22.000	
0402	SPV.0060	Special 07. Gate Valve and Box 8-Inch	EACH	3.000		3.000	
0404	SPV.0060	Special 08. Gate Valve and Box 12-Inch	EACH	15.000		15.000	
0406	SPV.0060	Special 09. Hydrant	EACH	10.000		10.000	
0408	SPV.0060	Special 10. Connect To Existing Water Main	EACH	12.000		12.000	
0410	SPV.0060	Special 11. Corp Stop Curb Stop and Box 1-Inch	EACH	45.000		45.000	
0412	SPV.0060	Special 13. Construction Staking Water Main Structure	EACH	95.000		95.000	
0414	SPV.0060	Special 15. Connect to Existing Sanitary	EACH	12.000		12.000	
0416	SPV.0060	Special 16. Sanitary Manole Covers Type J-S	EACH	9.000		9.000	
0418	SPV.0060	Special 17. Wye 8x6-Inch	EACH	13.000		13.000	
0420	SPV.0060	Special 19. Tracer Wire Access Box	EACH	13.000		13.000	
0422	SPV.0060	Special 20. Construction Staking Sanitary Structure	EACH	9.000		9.000	
0424	SPV.0060	Special 21. Temporary Water Service	EACH	1.000		1.000	
0426	SPV.0060	Special 22. Water Valve Manhole	EACH	1.000		1.000	
0428	SPV.0060	Special 23. Temporary CDBG Project Sign	EACH	1.000		1.000	
0430	SPV.0060	Special 30. Decorative Lighting Unit	EACH	3.000	3.000		
0432	SPV.0060	Special 31.Salvage and Reinstall Decorative Lighting Unit	EACH	11.000	11.000		
0434	SPV.0060	Special 32. Concrete Bases Type 5 - Dec	EACH	14.000	14.000		
0436	SPV.0090	Special 01. Water Main PVC 6-Inch	LF	754.000		754.000	
0438	SPV.0090	Special 02. Water Main PVC 8-Inch	LF	473.000		473.000	
0440	SPV.0090	Special 03. Water Main PVC 12-Inch	LF	2,992.000		2,992.000	
0442	SPV.0090	Special 04. Water Main Directionally Drilled 12-Inch	LF	167.000		167.000	
0444	SPV.0090	Special 07. Water Service Bored PE 1-Inch	LF	221.000		221.000	
0446	SPV.0090	Special 09. Water Service PE 1-Inch	LF	721.000		721.000	
0448	SPV.0090	Special 10. Construction Staking Water Main Pipe	LF	4,386.000		4,386.000	
0450	SPV.0090	Special 11. Sanitary Sewer PVC 8-Inch	LF	1,887.000		1,887.000	
0452	SPV.0090	Special 13. Sanitary Sewer PVC 12-Inch	LF	174.000		174.000	
0454	SPV.0090	Special 14. Sanitary Sewer Lateral PVC 6-Inch	LF	310.000		310.000	
0456	SPV.0090	Special 16. Sanitary Sewer Televising	LF	2,061.000		2,061.000	
0458	SPV.0090	Special 17. Construction Staking Sanitary Pipe	LF	2,061.000		2,061.000	
0460	SPV.0090	Special 18. 22-Inch Steel Casing Pipe	LF	96.000		96.000	
0462	SPV.0090	Special 25. Fence Chain Link Polymer-Coated 4-Ft. R-2-15	LF	284.000	284.000		
0464	SPV.0090	Special 26. Clean & Seal Retaining Wall Structure R-02-0013	LF	138.000	138.000		
0466	SPV.0090	Special 27. 40-Inch Steel Casing Pipe	LF	110.000	110.000		
0468	SPV.0200	Special 01. Sanitary Manhole 4-Foot	VF	74.300		74.300	

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CLEARING & GRUBBING

STATION	TO	STATION	LOCATION	201.0105 CLEARING STA	201.0205 GRUBBING STA
999+00	-	1000+00	STH 13	1	1
1009+00	-	1011+00	STH 13	2	2
1022+00	-	1028+00	STH 13	6	6
1029+00	-	1031+00	STH 13	2	2
			TOTAL 0010	**11**	**11**

REMOVING SMALL PIPE CULVERTS

STATION	SIZE/MATERIAL	LOCATION	203.0100 REMOVING SMALL PIPE CULVERTS EACH
1027+68	42'x??" CPCP	PE, RT	1
1029+42	40'x30" CMCP	LINCOLN AVE, RT	1
1030+73	40'x??" CPCP	PE, RT	1
		TOTAL 0010	**3**

REMOVING CONCRETE PAVEMENT

STATION	TO	STATION	LOCATION	204.0100 REMOVING CONCRETE PAVEMENT SY
998+00	-	1008+75	STH 13	2,870
1011+25	-	1012+40	STH 13	515
1013+02	-	1026+25	STH 13	4,245
JEFFERSON AVE	-	WASHINGTON AVE	DRWYS, LT	51
WASHINGTON AVE	-	STRUCTURE	DRWYS, LT	138
FAYETTE AVE	-	STRUCTURE	DRWYS, RT	22
STRUCTURE	-	STH 77	DRWYS, RT	17
STH 77	-	BENNETT AVE	DRWYS, RT	58
CTH GG	-	BENNETT AVE	DRWYS, LT	45
BENNETT AVE	-	TYLER AVE	DRWYS, LT	50
			TOTAL 0010	**8,011**

REMOVING ASPHALTIC SURFACE BUTT JOINTS

LOCATION	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY
LINCOLN AVE	65
END PROJECT LIMITS	192
TOTAL 0010	**257**

REMOVING ASPHALTIC SURFACE

STATION	TO	STATION	LOCATION	* 204.0110 REMOVING ASPHALTIC SURFACE SY
1010+23	-	1012+30	STH 13/STH 77	1,244
			TOTAL 0010	**1,244**

* ADDITIONAL QUANTITIES SHOWN ELSEWAHERE IN THE PLANS

REMOVING ASPHALTIC SURFACE MILLING

STATION	TO	STATION	LOCATION	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY
1026+25	-	1154+30	STH 13	50,365
			TOTAL 0010	**50,365**

REMOVING CURB & GUTTER

STATION	TO	STATION	LOCATION	204.0150 REMOVING CURB & GUTTER LF
998+00	-	JEFFERSON AVE	LT	32
JEFFERSON AVE	-	WASHINGTON AVE	LT	335
WASHINGTON AVE	-	STRUCTURE	LT	740
FAYETTE AVE	-	STRUCTURE	RT	715
STRUCTURE	-	STH 77	RT	264
STRUCTURE	-	CTH GG	LT	400
STH 77	-	BENNETT AVE	RT	562
CTH GG	-	BENNETT AVE	LT	372
BENNETT AVE	-	TYLER AVE	RT	340
BENNETT AVE	-	TYLER AVE	LT	355
TYLER AVE	-	LAYMAN AVE	RT	28
TYLER AVE	-	LAYMAN AVE	LT	323
			TOTAL 0010	**4,466**

EXCAVATION, HAULING, AND DISPOSAL OF PETROLEUM CONTAMINATED SOIL

STATION	TO	STATION	LOCATION	205.0501.S EXCAVATION, HAULING, AND DISPOSAL OF PETROLEUM CONTAMINATED SOIL TON
1019+50	-	1020+25	LT	50
1010+20	-	1010+40	RT	86
1011+35	-	1012+00	LT	104
			TOTAL 0010	**240**

REMOVING CONCRETE SIDEWALK

STATION	TO	STATION	LOCATION	204.0155 REMOVING CONCRETE SIDEWALK SY
JEFFERSON AVE	-	WASHINGTON AVE	LT	143
WASHINGTON AVE	-	STRUCTURE	LT	322
FAYETTE AVE	-	STRUCTURE	RT	485
STRUCTURE	-	STH 77	RT	123
STRUCTURE	-	CTH GG	LT	204
STH 77	-	BENNETT AVE	RT	351
CTH GG	-	BENNETT AVE	LT	248
BENNETT AVE	-	TYLER AVE	RT	192
BENNETT AVE	-	TYLER AVE	LT	174
TYLER AVE	-	LAYMAN AVE	RT	13
TYLER AVE	-	LAYMAN AVE	LT	159
			TOTAL 0010	**2,414**

REMOVING FENCE

LOCATION	204.0170 REMOVING FENCE LF
BAD RIVER STRUCTURE	95
TOTAL 0010	**95**

PREPARE FOUNDATION FOR ASPHALTIC PAVING (1610-00-76)

PROJECT	211.0101.01 PREPARE FOUNDATION FOR ASPHALTIC PAVING (PROJECT) (01. 1610-00-76) EACH
1610-00-76	1
TOTAL 0010	**1**

FINISHING ROADWAY (1610-00-76)

LOCATION	213.0100.01 FINISHING ROADWAY (PROJECT) (01. 1610-00-76) EACH
1610-00-76	1
TOTAL 0010	**1**

ALL ITEMS ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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EARTHWORK SUMMARY

DIVISION	FROM/TO STATION	LOCATION	205.0100 COMMON EXCAVATION (1) CUT (2)	205.0100 COMMON EXCAVATION (1) EBS EXCAVATION (3)	SALVAGED/UNUSABLE PAVEMENT MATERIAL (4)	AVAILABLE MATERIAL (5)	UNEXPANDED FILL	EXPANDED FILL (13) FACTOR 1.30	MASS ORDINATE +/- (14)	WASTE
DIVISION 1										
JEFFERSON AVE - BAD RIVER BRIDGE	998+00/1009+65	STH 13	5,694	0	1,952	3,742	35	46	3,697	3,697
DIVISION 1 SUBTOTAL			5,694	0	1,952	3,742	35	46	3,697	3,697
DIVISION 2										
BAD RIVER BRIDGE TO LAYMAN DR	1010+37/1026+19	STH 13	7,251	0	2,654	4,597	1,516	1,971	2,626	2,626
DIVISION 2 SUBTOTAL			7,251	0	2,654	4,597	1,516	1,971	2,626	2,626
DIVISION 3										
SIDEROADS - JEFFERSON AVE - BAD RIVER BRIDGE	998+00/1009+65	---	423	0	75	348	3	4	344	344
SIDEROADS - BAD RIVER BRIDGE - LAYMAN DR	1010+37/1026+19	---	809	0	265	544	1,235	1,606	-1,062	0
DIVISION 3 SUBTOTAL			1,232	0	340	892	1,238	1,609	-717	344
DIVISION 4										
DITCHING NORTH OF LAYMAN DR	1026+50/1031+75	---	375	0	0	375	62	81	294	294
DIVISION 4 SUBTOTAL			375	0	0	375	62	81	294	294
DIVISION 5										
GAS STATION DITCHING	---	---	43	0	0	43	0	0	43	43
DIVISION 5 SUBTOTAL			43	0	0	43	0	0	43	43
GRAND TOTAL			14,595	0	4,946	9,649	2,851	3,706	5,943	7,004
*** TOTAL COMMON EXC			14,595							

*** 0010 = 13,433 CY
0030 = 1,162 cy

NOTES:
(1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100
(2) SALVAGED/UNSUABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.
(3) EBS EXCAVATION TO BE BACKFILLED WITH SELECT BORROW MATERIAL. NOTE: THIS IS DESIGNERS CHOICE, CAN BE BACKFILLED WITH BORROW, OR CUT AS WELL.
(4) SALVAGED/UNUSABLE PAVEMENT MATERIAL
(5) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSUABLE PAVEMENT MATERIAL
(13) EXPANDED FILL FACTOR = 1.30 EXPANDED FILL = (UNEXPANDED FILL) * FILL FACTOR
(14) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

ALL ITEMS ON THIS SHEET
ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

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BASE AGGREGATE DENSE

CATEGORY	STATION	TO	STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	* 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON
0010	998+00	-	1009+64	STH 13	23	4,162
0010	40+26	-	41+39	STH 77	10	570
0010	1010+36	-	1026+25	STH 13	91	6,291
0010	1026+25	-	1154+30	STH 13	900	---
0010	998+00	-	1026+25	SIDEWALKS	---	1,001
0010	998+00	-	1026+25	DRIVEWAYS	17	272
0010				OLSON RD	318	---
0010				UNDISTRIBUTED	136	1,230
				TOTAL 0010	**1,495**	**13,526**
0030	998+00	-	1009+64	STH 13	0	557
0030	1010+36	-	1026+25	STH 13	0	515
				TOTAL 0030	**0**	**1,072**
				PROJECT TOTAL	**1,495**	**14,598**

* ADDITIONAL QUANTITIES SHOWN ELSEWAHERE IN THE PLANS

SHAPING SHOULDERS

STATION	TO	STATION	LOCATION	305.0500 SHAPING SHOULDERS STA
1026+25	-	1154+30	STH 13	128
			OLSON RD	53
			TOTAL 0010	**181**

SUBBASE 12-INCH

CATEGORY	STATION	TO	STATION	LOCATION	350.0145 SUBBASE 12-INCH SY
0010	998+00	-	1009+64	STH 13	5,207
0010	40+26	-	41+39	STH 77	698
0010	1010+36	-	1026+25	STH 13	7,727
				TOTAL 0010	**13,632**
0030	998+00	-	1009+64	STH 13	702
0030	1010+36	-	1026+25	STH 13	647
				TOTAL 0030	**1,349**
				PROJECT TOTAL	**14,981**

CONCRETE PAVEMENT APPROACH SLAB

LOCATION	415.0410 CONCRETE PAVEMENT APPROACH SLAB SY
SOUTH APPROACH	40
NORTH APPROACH	40
TOTAL 0010	**80**

HMA PAVEMENT

CATEGORY	STATION	TO	STATION	LOCATION	450.4000 HMA COLD WEATHER PAVING TON	455.0605 TACK COAT GAL	460.6243 HMA PAVEMENT 3 MT 58-34 S TON	460.6645 HMA PAVEMENT 5 MT 58-34 V TON	* 465.0105 ASPHALTIC SURFACE TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	465.0125 ASPHALTIC SURFACE TEMPORARY TON
0010	998+00	-	1009+64	STH 13	148	383	965	511	---	30	---
0010	40+26	-	41+39	STH 77	23	63	71	160	---	---	---
0010	1010+36	-	1026+25	STH 13	241	614	1,591	817	14	33	---
0010	1026+25	-	1154+30	STH 13	915	2,512	---	9,145	---	23	---
0010				OLSON RD	---	817	---	---	1,310	---	---
0010				UNDISTRIBUTED	---	---	---	---	---	---	200
				TOTAL 0010	**1,326**	**3,572**	**2,627**	**10,632**	**1,324**	**86**	**200**
0030	998+00	-	1009+64	STH 13	17	36	90	80	---	---	---
0030	1010+36	-	1026+25	STH 13	16	33	83	74	---	---	---
				TOTAL 0030	**33**	**69**	**173**	**154**	**0**	**0**	**0**
				PROJECT TOTAL	**1,359**	**3,641**	**2,800**	**10,787**	**1,324**	**86**	**200**

* ADDITIONAL QUANTITIES SHOWN ELSEWAHERE IN THE PLANS

ASPHALTIC FLUMES

STATION	LOCATION	465.0315 ASPHALTIC FLUMES SY
40+82	STH 77, LT	7
1026+25	STH 13, RT	5
	TOTAL 0010	**12**

ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL

PROJECT ID: 1610-00-86

STATION	TO	STATION	LOCATION	465.0425 ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL LF
1042+75	-	1154+30	STH 13	22,310
			TOTAL 0010	**22,310**

ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL

STATION	TO	STATION	LOCATION	465.0475 ASPHALT CENTERLINE RUMBLE STRIPS 2-LANE RURAL LF
1042+75	-	1154+30	STH 13	11,155
			TOTAL 0010	**11,155**

ALL ITEMS ON THIS SHEET
ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

3

CULVERT PIPE CLASS III-A & APRON ENDWALLS FOR CULVERT PIPE STEEL

STATION	LOCATION	520.3324 CULVERT PIPE CLASS III-A 24-INCH LF	520.3330 CULVERT PIPE CLASS III-A 30-INCH LF	521.1024 APRON ENDWALLS FOR CULVERT PIPE STEEL 24-INCH EACH	521.1030 APRON ENDWALLS FOR CULVERT PIPE STEEL 30-INCH EACH
1027+68	RT	46	---	2	---
1029+42	RT	---	50	---	2
1030+73	RT	---	34	---	2
TOTAL 0010		**46**	**84**	**2**	**4**

CONCRETE CURB & GUTTER AND CURB PEDESTRIAN

STATION	TO	STATION	LOCATION	* 601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	601.0557 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D LF	601.0600 CONCRETE CURB PEDESTRIAN LF
998+00	-	JEFFERSON AVE	LT	59	---	---
998+50	-	FAYETTE AVE	RT	408	---	---
JEFFERSON AVE	-	WASHINGTON AVE	LT	353	---	---
WASHINGTON AVE	-	STRUCTURE	LT	747	---	---
FAYETTE AVE	-	STRUCTURE	RT	732	---	---
STRUCTURE	-	STH 77	RT	234	---	---
STRUCTURE	-	CTH GG	LT	397	---	---
STH 77	-	BENNETT AVE	RT	601	---	33
			ISLAND	201	---	---
CTH GG	-	BENNETT AVE	LT	399	---	---
BENNETT AVE	-	TYLER AVE	RT	407	---	---
BENNETT AVE	-	TYLER AVE	LT	394	---	---
TYLER AVE	-	LAYMAN AVE	RT	409	59	---
TYLER AVE	-	LAYMAN AVE	LT	379	---	---
			TOTAL 0010	**5,720**	**59**	**33**

* ADDITIONAL QUANTITIES SHOWN ELSEWAHERE IN THE PLANS

CONCRETE SIDEWALK 4-INCH AND CONCRETE DRIVEWAY 6-INCH

STATION	TO	STATION	LOCATION	* 416.0160 CONCRETE DRIVEWAY 6-INCH SY	* 602.0405 CONCRETE SIDEWALK 4-INCH SF
998+50	-	FAYETTE AVE	RT	---	95
JEFFERSON AVE	-	WASHINGTON AVE	LT	84	1348
WASHINGTON AVE	-	STRUCTURE	LT	184	3167
FAYETTE AVE	-	STRUCTURE	RT	43	5391
STRUCTURE	-	STH 77	RT	---	1341
			ISLAND	---	481
STRUCTURE	-	CTH GG	LT	---	512
STH 77	-	BENNETT AVE	RT	91	3,865
CTH GG	-	BENNETT AVE	LT	24	3,068
BENNETT AVE	-	TYLER AVE	RT	24	2,105
BENNETT AVE	-	TYLER AVE	LT	35	2,166
TYLER AVE	-	LAYMAN AVE	RT	---	421
TYLER AVE	-	LAYMAN AVE	LT	20	1,526
			TOTAL 0010	**505**	**25,486**

* ADDITIONAL QUANTITIES SHOWN ELSEWAHERE IN THE PLANS

CURB RAMP DETECTABLE WARNING FIELD YELLOW

STATION	TO	STATION	LOCATION	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF
JEFFERSON AVE	-	WASHINGTON AVE	LT	20
WASHINGTON AVE	-	STRUCTURE	LT	40
FAYETTE AVE	-	STRUCTURE	RT	30
STRUCTURE	-	STH 77	RT	30
STRUCTURE	-	CTH GG	LT	30
STH 77	-	BENNETT AVE	RT	90
CTH GG	-	BENNETT AVE	LT	30
BENNETT AVE	-	TYLER AVE	RT	30
BENNETT AVE	-	TYLER AVE	LT	40
TYLER AVE	-	LAYMAN AVE	RT	10
TYLER AVE	-	LAYMAN AVE	LT	20
			TOTAL 0010	**370**

COVER PLATES TEMPORARY

LOCATION	611.8120.S COVER PLATES TEMPORARY EACH
CTH GG	2
TOTAL 0010	**2**

MAINTENANCE AND REPAIR OF HAUL ROADS (1610-00-76)

LOCATION	618.0100.01 MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT) (01. 1610-00-76) EACH
1610-00-76	1
TOTAL 0010	**1**

MOBILIZATION

PROJECT	619.1000 MOBILIZATION EACH
1610-00-76	1
TOTAL 0010	**1**

ALL ITEMS ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

3

WATER

LOCATION	624.0100 WATER MGAL
BASE COMPACTION	220
DUST CONTROL	150
TOTAL 0010	**370**

RIPRAP LIGHT & GEOTEXTILE TYPE R

STATION	TO	STATION	LOCATION	606.0100 RIPRAP LIGHT CY	645.0130 GEOTEXTILE TYPE R SY
1022+55	-	1025+40	RT	256	287
		1026+56	RT	3	12
		1027+94	DWY, RT	5	20
		1029+73	DWY, RT	6	24
		1030+93	DWY, RT	6	24
		TOTAL 0010		**276**	**367**

MOBILIZATIONS FOR EROSION CONTROL

PROJECT	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
1610-00-76	5	5
TOTAL 0010	**5**	**5**

TURBIDITY BARRIERS

LOCATION	628.6005 TURBIDITY BARRIERS SY
BAD RIVER STRUCTURE SOUTH SIDE	113
BAD RIVER STRUCTURE NORTH SIDE	100
TOTAL 0010	**213**

EROSION CONTROL ITEMS

STATION	TO	STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.2006 EROSION MAT URBAN CLASS I TYPE A SY	628.2023 EROSION MAT CLASS II TYPE B SY	628.7005 INLET PROTECTION TYPE A EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH
998+00	-	JEFFERSON AVE	LT	---	---	36	---	---	---	---	---
998+50	-	FAYETTE AVE	RT	---	---	88	---	1	1	---	---
JEFFERSON AVE	-	WASHINGTON AVE	LT	---	---	216	---	1	1	---	---
WASHINGTON AVE	-	STRUCTURE	LT	20	20	263	---	3	3	---	---
FAYETTE AVE	-	STRUCTURE	RT	20	20	226	---	4	4	---	---
STRUCTURE	-	STH 77	RT	112	112	540	---	2	1	12	---
STRUCTURE	-	CTH GG	LT	160	160	659	---	4	4	---	---
		MEDIAN ISLAND		---	---	---	---	2	2	---	---
STH 77	-	BENNETT AVE	RT	---	---	312	---	7	3	12	2
CTH GG	-	BENNETT AVE	LT	---	---	---	---	3	3	---	---
BENNETT AVE	-	TYLER AVE	LT/RT	---	---	95	---	8	6	---	---
TYLER AVE	-	LAYMAN AVE	LT/RT	---	---	309	---	4	4	---	---
LAYMAN AVE	-	1032+75	RT	---	---	---	1495	2	2	108	13
			UNDISTRIBUTED	63	63	546	300	8	7	26	5
			TOTAL 0010	**375**	**375**	**3,290**	**1,795**	**49**	**41**	**158**	**20**

TOPSOIL, MULCHING, FERTILIZER, SEED, TEMP SEED, & WATER

STATION	TO	STATION	LOCATION	625.0100 TOPSOIL SY	* 627.0200 MULCHING SY	629.0210 FERTILIZER TYPE B CWT	* 630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATER MGAL
998+00	-	JEFFERSON AVE	LT	90	54	0.1	2	---	2
998+50	-	FAYETTE AVE	RT	109	21	0.1	2	---	2
JEFFERSON AVE	-	WASHINGTON AVE	LT	274	58	0.2	5	---	6
WASHINGTON AVE	-	STRUCTURE	LT	374	111	0.2	7	---	8
FAYETTE AVE	-	STRUCTURE	RT	492	266	0.3	9	---	11
STRUCTURE	-	STH 77	RT	1,056	516	0.7	19	---	24
STRUCTURE	-	CTH GG	LT	665	5	0.4	12	---	15
STH 77	-	BENNETT AVE	RT	335	23	0.2	6	---	8
CTH GG	-	BENNETT AVE	LT	---	---	---	---	---	---
BENNETT AVE	-	TYLER AVE	LT/RT	150	55	0.1	3	---	3
TYLER AVE	-	LAYMAN AVE	LT/RT	570	260	0.4	10	---	13
LAYMAN AVE	-	1032+75	RT	1,495	---	0.9	27	27	34
			UNDISTRIBUTED	1,120	271	1.0	19	5	24
			TOTAL 0010	**6,730**	**1,640**	**5**	**120**	**32**	**150**

* ADDITIONAL QUANTITIES SHOWN ELSEWAHERE IN THE PLANS

ALL ITEMS ON THIS SHEET
ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

SIGNING TYPE II & MOVING SIGN TYPE II

APPROX STATION	SIGN CODE	SIGN SIZE WxH (INCHES)	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2220 SIGNS TYPE II REFLECTIVE SH SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
998+43, LT	R1-1	30x30	1	---	---	5.18	---	---	1	1	(JEFFERSON AVE)
999+30, RT	S4-51	24x48	---	1	---	---	6.63	1.38	1	1	
999+32, LT	R7-1R	18x24	1	---	---	3.00	---	---	1	1	
999+93, LT	S5-2	24x30	1	---	---	5.00	---	---	1	1	
1000+46, LT	R7-1D	18x24	1	---	---	3.00	---	---	1	1	
1001+20, LT	R7-1D	18x24	1	---	---	3.00	---	---	1	1	
1001+87, LT	R7-1L	18x24	1	---	---	3.00	---	---	1	1	
1002+00, LT	R1-1	30x30	1	---	---	5.18	---	---	1	1	(WASHINGTON AVE)
1002+73, RT	R1-1	30x30	1	---	---	5.18	---	---	1	1	(FAYETTE AVE)
1002+96, RT	S1-1	36x36	---	1	---	---	---	6.75	1	1	
	S16-7L	30x18	---	---	---	---	---	3.75	---	---	(SHARES POST)
1003+08, LT	S1-1	36x36	---	1	---	---	---	6.75	1	1	
	S16-7L	30x18	---	---	---	---	---	3.75	---	---	(SHARES POST)
1004+21, LT	R2-1	24x30	1	---	---	5.00	---	---	1	---	"25"
1004+23, RT	R2-1	24x30	1	---	---	5.00	---	---	1	1	"25"
1005+78, RT	S1-1	36x36	---	1	---	---	---	6.75	1	1	
	S16-7L	30x18	---	---	---	---	---	3.75	---	---	(SHARES POST)
105+89, LT	S1-1	36x36	---	1	---	---	---	6.75	1	1	
	S16-7L	30x18	---	---	---	---	---	3.75	---	---	(SHARES POST)
1006+07, RT	R7-1L	18x24	1	---	---	3.00	---	---	1	1	
1006+56, RT	J2-2	48x57	---	---	1	19.00	---	---	1	1	NORTH, EAST; STH 13, STH 77; UP ARROW, UP/RT ARROW
1006+96, RT	R7-1D	18x24	1	---	---	3.00	---	---	1	1	
1007+82, RT	R7-1D	18x24	1	---	---	3.00	---	---	1	1	
1008+43, RT	D1-2	42x24	---	1	---	7.00	---	---	1	1	UP ARROW, ASHLAND; HURLEY, RT ARROW
1008+61, RT	R7-1R	18x24	1	---	---	3.00	---	---	1	1	
1008+70, RT	S1-1	36x36	---	1	---	---	---	6.75	1	1	
	S16-7L	30x18	---	---	---	---	---	3.75	---	---	(SHARES POST)
1008+82, LT	S1-1	36x36	---	1	---	---	---	6.75	1	1	
	S16-7L	30x18	---	---	---	---	---	3.75	---	---	(SHARES POST)
1008+88, RT	W10-1	36x36	---	1	---	---	---	7.07	1	1	
1009+46, LT	J4-1	24x36	---	1	---	6.00	---	---	1	1	SOUTH, STH 13
1009+61, RT	S5-2	24x30	1	1	---	5.00	---	---	1	1	
1010+39, LT	I3-1	36x24	1	---	---	6.00	---	---	1	1	"BAD RIVER"
	I3-1	36x24	---	---	---	6.00	---	---	---	---	"BAD RIVER" (SHARES POST)
1010+46, LT	R1-1	30x30	1	---	---	5.18	---	---	1	1	(TRAIL)
1011+09, LT	S4-51	24x48	---	1	---	---	6.63	1.38	1	1	"15"
1011+09, RT	J2-2	48x57	---	---	1	19.00	---	---	2	2	EAST, JCT; STH 77, CTH GG; RT ARROW
1012+09, LT	J2-3	72x57	---	---	2	28.50	---	---	1	2	SOUTH, WEST, NORTH; STH 13, STH 77, STH 13; LT ARROW, LT ARROW, RT ARROW
1012+15, LT	J2-1	24x57	---	---	1	9.50	---	---	1	1	EAST; STH 77; LT ARROW
40+75, STH 77 RT	R1-1	36x36	---	1	---	7.46	---	---	1	1	(STH 77)
42+09, STH 77 RT	W10-1	36x36	---	1	---	---	---	7.07	1	1	
1013+46, LT	S1-1	36x36	---	---	1	---	---	6.75	1	1	
	S16-9P	30x18	---	---	---	---	---	3.75	---	---	(SHARES POST)
	R2-6P	24x18	---	---	---	3.00	---	---	---	---	(SHARES POST)
1013+77, RT	D7-63L	60x36	---	2	---	15.00	---	---	1	2	
1013+84, LT	D1-3	48x30	---	1	---	10.00	---	---	1	1	"UP ARROW,BUTTERNUT, HAYWARD; LT ARROW, HURLEY
1014+15, RT	R2-1	24x30	1	---	---	5.00	---	---	1	1	"25"
1014+25, LT	R2-1	24x30	1	---	---	5.00	---	---	1	1	"25"
1014+58, RT	J13-1	24x45	---	1	---	7.50	---	---	1	1	CTH GG, LT ARROW
	R7-2	18x24	1	---	---	3.00	---	---	---	---	2:00 AM TO 6:00 AM
51+97, CTH GG RT	R1-1	36x36	---	1	---	7.46	---	---	1	1	(CTH GG)
1015+50, LT	J13-1	24x45	---	1	---	7.50	---	---	1	1	CTH GG, RT ARROW

ALL ITEMS ON THIS SHEET
ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

SIGNING TYPE II & MOVING SIGN TYPE II

APPROX STATION	SIGN CODE	SIGN SIZE WxH (INCHES)	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2220 SIGNS TYPE II REFLECTIVE SH SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
1015+69, LT	W10-1	36x36	---	1	---	---	---	7.07	1	1	
1015+95, LT	W11-8	30x30	1	---	---	---	---	6.25	1	1	
1017+53, RT	D7-2	18x24	1	---	---	3.00	---	---	1	1	2:00 AM TO 6:00 AM
1018+46, LT	R1-1	30x30	1	---	---	5.18	---	---	1	1	(BENNETT AVE)
1018+88, RT	R1-1	30x30	1	---	---	5.18	---	---	1	1	(BENNETT AVE)
1021+46, RT	R2-1	24x30	1	---	---	5.00	---	---	1	1	"25"
	R7-2	18x24	1	---	---	3.00	---	---	---	---	2:00 AM TO 6:00 AM
1021+48, LT	R2-1	24x30	1	---	---	5.00	---	---	1	1	"25"
1022+12, LT	R1-1	30x30	1	---	---	5.18	---	---	1	1	(TYLER AVE)
1022+44, RT	R1-1	30x30	1	---	---	5.18	---	---	1	1	(TYLER AVE)
1025+58, LT	R1-1	30x30	1	---	---	5.18	---	---	1	1	(LAYMAN AVE)
1025+96, RT	R1-1	30x30	1	---	---	5.18	---	---	1	1	(LAYMAN AVE)
1028+90, LT	R2-1	24x30	---	1	---	5.00	---	---	1	1	"25"
1029+60, RT	R1-1	30x30	---	1	---	5.18	---	---	1	1	(LINCOLN DR)
1029+84, RT	R2-1	24x30	---	1	---	5.00	---	---	1	1	"45"
1031+85, RT	J1-1	24x39	---	1	---	6.50	---	---	1	1	JCT, STH 169
1033+60, RT			---	---	---	---	---	---	1	2	
1035+16, LT	W3-5	36x36	---	1	---	---	---	9.00	1	1	"25"
1035+40, RT	D7-53R	60x36	---	2	---	15.00	---	---	1	2	"COPPER FALLS"
1035+71, LT	W11-2	30x30	---	---	1	---	---	6.25	1	1	
	W13-1	18x18	---	---	---	---	---	2.25	---	---	"25" (SHARES POST)
1036+01, RT	R2-1	24x30	---	1	---	5.00	---	---	1	1	"45"
1036+34, LT	J4-1	24x36	---	1	---	6.00	---	---	1	1	SOUTH, STH 13
1037+45, RT	J2-2	48x57	---	---	2	19.00	---	---	1	1	NORTH, NORTH; STH 13, STH 169; UP ARROW, RT ARROW
		TOTAL 0010	**31**	**30**	**9**	**350.40**	**13.25**	**121.21**	**65**	**68**	

FIELD OFFICE TYPE B

PROJECT	642.5001 FIELD OFFICE TYPE B EACH
1610-00-76	1
TOTAL 0010	**1**

TRAFFIC CONTROL

LOCATION	643.5000 TRAFFIC CONTROL EACH
PROJECT LIMITS	1
TOTAL 0010	**1**

TRAFFIC CONTROL SIGNS FIXED MESSAGE

LOCATION	SIGN SIZE WxH (INCHES)	643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE SF	MESSAGE
DETOUR STH 13 NB PLACE PRIOR TO STH 182 ON STH 13	96" x 48"	32	"HWY 13 NORTH CLOSED AT MELLEN TRUCKS FOLLOW DETOUR"
DETOUR STH 13 NB PLACE PRIOR TO USH 2 ROUNDABOUT	72" x 48"	24	"HWY 13 NORTH TRUCK DETOUR FOLLOW HWY 2 WEST"
DETOUR STH 13 SB PLACE PRIOR TO USH 2 ROUNDABOUT	96" x 48"	32	"HWY 13 SOUTH CLOSED AT MELLEN TRUCKS FOLLOW DETOUR"
DETOUR STH 13 SB PLACE PRIOR TO USH 2 ROUNDABOUT	84" x 48"	28	"HWY 13 SOUTH TRUCK DETOUR FOLLOW HWY 51 SOUTH"
DETOUR STH 13 SB PLACE PRIOR TO STH 13 SB ON USH 2	96" x 48"	32	"HWY 13 SOUTH CLOSED AT MELLEN TRUCKS FOLLOW DETOUR"
TOTAL 0010		**148**	

TRAFFIC CONTROL ITEMS

STAGE	DAYS	643.0300 TRAFFIC CONTROL DRUMS DAY	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAY	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAY	643.0900 TRAFFIC CONTROL SIGNS DAY
STAGE 1A	30	1,680	510	510	0	2,370
STAGE 1B	30	2,340	600	600	480	2,550
STAGE 2	30	---	---	---	---	2,370
STAGE 3A	30	1,710	990	1,170	420	3,240
STAGE 3B	30	1,680	900	1,350	750	3,210
STAGE 3C	30	3,450	1,650	2,340	630	7,890
STAGE 3D	30	2,250	1,560	2,190	---	7,860
TOTAL 0010		**13,110**	**6,210**	**8,160**	**2,280**	**29,490**

ALL ITEMS ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

3

TRAFFIC CONTROL COVERING SIGNS TYPE II

LOCATION	STAGE	CYCLE	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II EACH
FAYETTE AVE	1B	1	1
BENNETT ST	3B	1	1
CTH GG	3B/3C/3D	1	1
UNDISTRIBUTED			5
TOTAL 0010			**8**

TEMPORARY MARKING LINE EPOXY 4-INCH

STATION	TO	STATION	LOCATION	COLOR/DESCRIPTION	643.3120 TEMPORARY MARKING LINE EPOXY 4-INCH LF
1026+07	-	1038+00	STH 13	YELLOW / CENTERLINE	48
1038+58	-	1154+30	STH 13	YELLOW / CENTERLINE	926
TOTAL 0010					**974**

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH

STAGE	643.3150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH LF	COLOR / DESCRIPTION
STAGE 1A	2,097	(1508' YELLOW, 589' WHITE)
STAGE 1B	1,787	(122' YELLOW, 1665' WHITE)
STAGE 3A	724	(724' YELLOW)
STAGE 3B	1,088	(563' YELLOW, 525' WHITE)
STAGE 3C	2,535	(462' YELLOW, 2073' WHITE)
TOTAL 0010	**8,231**	

TEMPORARY CURB RAMP ITEMS

STATION	TO	STATION	LOCATION	644.1440 TEMPORARY PEDESTRIAN SURFACE MATTING SF	644.1601 TEMPORARY PEDESTRIAN CURB RAMP DAY	644.1605 TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD SF
998+00	-	1009+64	STH 13	416	390	104
1010+36	-	1026+25	STH 13	736	690	184
			TOTAL 0010	**1,152**	**1,080**	**288**

3

MARKING LINE ITEMS

STATION	TO	STATION	LOCATION	DESCRIPTION	646.1020 MARKING LINE EPOXY 4-INCH LF	646.1040 MARKING LINE GROOVED WET REF EPOXY 4-INCH LF	646.3020 MARKING LINE EPOXY 8-INCH LF	646.4520 MARKING LINE SAME DAY EPOXY 4-INCH LF	646.7020 MARKING DIAGONAL EPOXY 6-INCH LF	646.7120 MARKING DIAGONAL EPOXY 12-INCH LF	REMARKS
998+00	-	1002+00	STH 13	CENTERLINE/EDGELINE	1,186	---	---	---	---	---	(386' WHITE, 800' YELLOW)
1002+62	-	1011+50	STH 13	CENTERLINE	1,720	---	---	---	---	---	(1720' YELLOW)
40+69	-	41+39	STH 77	CENTERLINE/EDGELINE	200	---	---	---	---	---	(60' WHITE, 140' YELLOW)
1012+18	-	1014+55	STH 13	CENTERLINE	757	---	75	---	---	68	(757' YELLOW)
50+30	-	52+11	CTH GG	CENTERLINE/EDGELINE	830	---	---	---	122	---	(100' WHITE, 730' YELLOW)
1015+25	-	1018+31	STH 13	CENTERLINE	602	---	---	---	---	---	(602' YELLOW)
1019+06	-	1021+97	STH 13	CENTERLINE	580	---	---	---	---	---	(580' YELLOW)
1022+54	-	1025+50	STH 13	CENTERLINE	594	---	---	---	---	---	(594' YELLOW)
1026+07	-	1038+00	STH 13	CENTERLINE/EDGELINE	2,392	---	275	2,386	---	---	(2392' WHITE, 2386' YELLOW)
1038+58	-	1154+30	STH 13	CENTERLINE/EDGELINE	---	23,144	---	19,286	---	---	(23144' WHITE, 19286' YELLOW)
				TOTAL 0010	**8,861**	**23,144**	**350**	**21,672**	**122**	**68**	

MARKING CROSSWALK EPOXY

STATION	LOCATION	646.7420 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH LF	646.7520 MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH LF
	WASHINGTON AVE	62	---
1003+01	STH 13	---	42
1005+83	STH 13	---	42
1008+76	STH 13	---	54
1010+57	STH 13	---	99
	STH 77	89	---
1014+58	STH 13	110	---
1015+77	STH 13	---	54
1018+34	STH 13	68	---
	BENNETT AVE, LT	72	---
	BENNETT AVE, RT	62	---
1019+03	STH 13	68	---
1022+00	STH 13	66	---
	TYLER AVE, LT	49	---
	TOTAL 0010	**646**	**291**

MARKING RAILROAD CROSSING EPOXY

STATION	TO	STATION	LOCATION	646.5320 MARKING RAILROAD CROSSINGS EPOXY EACH	REMARKS
1008+88	-	1011+29	STH 13	1	
1013+24	-	1015+74	STH 13	1	
41+49	-	42+09	STH 77	1	NO FRONT STOP BAR
			TOTAL 0010	**3**	

MARKING STOP LINE EPOXY 18-INCH

STATION	LOCATION	646.6120 MARKING STOP LINE EPOXY 18-INCH LF
40+69	STH 77	17
52+10	CTH GG	26
TOTAL 0010		**43**

MARKING CURB EPOXY & MARKING ISLAND NOSE EPOXY

STATION	LOCATION	646.8120 MARKING CURB EPOXY LF	646.8220 MARKING ISLAND NOSE EPOXY EACH
1014+12	ISLAND	10	1
TOTAL 0010		**10**	**1**

MARKING REMOVAL LINE 4-INCH

STATION	TO	STATION	LOCATION	STAGE	646.9000 MARKING REMOVAL LINE 4-INCH LF
994+50	-	996+50	STH 13, CENTERLINE	1B	400
1009+25	-	1010+50	STH 13, CENTERLINE	1B	250
RAILROAD	TO	TYLER	STH 13 SB, PARKING STALL	3A	200
1033+50	-	1035+00	STH 13, CENTERLINE	3C	300
			TOTAL 0010		**1,150**

ALL ITEMS ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

3

CONSTRUCTION STAKING

STATION	TO	STATION	LOCATION	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.5000 CONSTRUCTION STAKING BASE LF	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF
998+00	-	1009+64	STH 13	1,164	1,164	420
40+26	-	41+39	STH 77	113	113	113
1010+36	-	1026+25	STH 13	1,589	1,589	815
1026+25	-	1031+75	DITCHING, RT	---	---	550
			TOTAL 0010	**2,866**	**2,866**	**1,898**

CONCSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER

STATION	TO	STATION	LOCATION	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF
998+00	-	JEFFERSON AVE	LT	59
998+50	-	FAYETTE AVE	RT	408
JEFFERSON AVE	-	WASHINGTON AVE	LT	353
WASHINGTON AVE	-	STRUCTURE	LT	758
FAYETTE AVE	-	STRUCTURE	RT	743
STRUCTURE	-	STH 77	RT	246
STRUCTURE	-	CTH GG	LT	409
STH 77	-	BENNETT AVE	RT	601
CTH GG	-	BENNETT AVE	LT	382
BENNETT AVE	-	TYLER AVE	RT	407
BENNETT AVE	-	TYLER AVE	LT	380
TYLER AVE	-	LAYMAN AVE	RT	391
TYLER AVE	-	LAYMAN AVE	LT	366
			TOTAL 0010	**5,536**

CONSTRUCTION STAKING STRUCTURE LAYOUT

STRUCTURE	650.6501.01 CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) (01. B-02-0074) EACH	650.6501.02 CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) (02. R-02-0015) EACH
B-02-0074	1	---
TOTAL 0050	**1**	**0**
R-02-0015	---	1
TOTAL 0020	**0**	**1**
PROJECT TOTAL	**1**	**1**

CONSTRUCTION STAKING CURB RAMPS

STATION	TO	STATION	LOCATION	650.9000 CONSTRUCTION STAKING CURB RAMPS EACH
JEFFERSON AVE	-	WASHINGTON AVE	LT	2
WASHINGTON AVE	-	STRUCTURE	LT	4
FAYETTE AVE	-	STRUCTURE	RT	3
STRUCTURE	-	STH 77	RT	2
STRUCTURE	-	CTH GG	LT	2
STH 77	-	BENNETT AVE	RT	9
CTH GG	-	BENNETT AVE	LT	3
BENNETT AVE	-	TYLER AVE	RT	3
BENNETT AVE	-	TYLER AVE	LT	4
TYLER AVE	-	LAYMAN AVE	RT	1
TYLER AVE	-	LAYMAN AVE	LT	2
	-			
			TOTAL 0010	**35**

CONSTRUCTION STAKING RESURFACING REFERENCE

STATION	TO	STATION	LOCATION	650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE LF
1026+25	-	1154+30	STH 13	12,805
			OLSON RD	5,252
			TOTAL 0010	**18,057**

CONSTRUCTION STAKING SIDEWALK (1610-00-76)

PROJECT	650.9500.01 CONSTRUCTION STAKING SIDEWALK (PROJECT) (01. 1610-00-76) EACH
1610-00-76	1
TOTAL 0010	**1**

SAWING

STATION	TO	STATION	LOCATION	* 690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF
998+50	-	FAYETTE AVE/WASHINGTON AVE	LT/RT	182	8
WASHINGTON AVE	-	STRUCTURE	LT	96	71
FAYETTE AVE	-	STRUCTURE	RT	42	62
STRUCTURE	-	BENNETT AVE	RT	322	6
STRUCTURE	-	CTH GG	LT	98	182
CTH GG	-	BENNETT AVE	LT	135	119
BENNETT AVE	-	TYLER AVE	RT	79	109
BENNETT AVE	-	TYLER AVE	LT	126	43
TYLER AVE	-	LAYMAN AVE	RT	---	37
TYLER AVE	-	LAYMAN AVE	LT	118	---
LAYMAN AVE	-	1154+30	LT/RT	108	---
		STAGE 1A		1124	4
		STAGE 1B		25	4
		STAGE 3C		1125	---
			TOTAL 0010	**3,580**	**645**

* ADDITIONAL QUANTITIES SHOWN ELSEWAHERE IN THE PLANS

CLEAN & SEAL RETAINING WALL STRUCTURE R-02-0013

STATION	TO	STATION	LOCATION	SPV.0090.26 SPECIAL (26. CLEAN & SEAL RETAINING WALL STRUCTURE R-02-0013) LF
1000+77	-	1002+12	STH 13, RT	138
			TOTAL 0010	**138**

CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (1610-00-76)

PROJECT	650.9911.01 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) (01. 1610-00-76) EACH
1610-00-76	1
TOTAL 0010	**1**

ALL ITEMS ON THIS SHEET
ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

STORM SEWER STRUCTURES

STRUCTURE	STATION	OFFSET*	LOCATION	520.1018 APRON ENDWALLS FOR CULVERT PIPE 18-INCH EACH	522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.0624 INLET COVERS TYPE H EACH	611.0627 INLET COVERS TYPE HM EACH	611.1004 CATCH BASINS 4-FT DIAMETER EACH	611.1005 CATCH BASINS 5-FT DIAMETER EACH	611.1230 CATCH BASINS 2X3-FT EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2007 MANHOLES 7-FT DIAMETER EACH	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	RIM** ELEVATION	INVERT*** ELEVATION	DEPTH**** FT
A1	1009+64	49.3' RT	AP-STH 13	-	1	-	-	-	-	-	-	-	-	-	1		1223.09	
A2	1008+89	19.3' RT	AP-STH 13	-	-	-	1	-	-	1	-	-	-	-	1	1229.85	1221.50	7.52
A2.1	1008+88	18.9' LT	AP-STH 13	-	-	-	1	-	-	-	1	-	-	-	1	1229.85	1222.62	6.40
A3	1008+42	23.4' RT	AP-STH 13	-	-	-	1	-	-	1	-	-	-	-	1	1230.41	1221.80	7.78
A3.1	1008+42	23.2' LT	AP-STH 13	-	-	-	1	-	-	-	1	-	-	-	1	1230.11	1222.91	6.37
A4	1005+25	23.0' RT	AP-STH 13	-	-	-	1	-	1	-	-	-	-	-	1	1237.32	1228.27	8.22
A4.1	1005+24	23.5' LT	AP-STH 13	-	-	-	1	-	-	-	1	-	-	-	1	1236.92	1229.74	6.35
A5	1002+81	20.1' RT	AP-STH 13	-	-	-	1	-	1	-	-	-	-	-	1	1243.28	1234.91	7.54
A6	1002+00	20.5' RT	AP-STH 13	-	-	-	1	-	1	-	-	-	-	-	1	1244.74	1237.96	5.94
A6.1	1001+86	17.3' LT	AP-STH 13	-	-	-	1	-	-	-	1	-	-	-	1	1244.54	1238.72	4.99
B1	1010+47	41.2' RT	AP-STH 13	-	1	-	-	-	-	-	-	-	-	-	1		1227.57	
B2	1010+67	20.8' RT	AP-STH 13	-	-	-	1	-	-	1	-	-	-	-	1	1234.76	1226.14	7.79
B2.1	1010+73	20.0' LT	AP-STH 13	-	-	-	1	-	-	-	1	-	-	-	1	1235.06	1227.65	6.58
B3	1011+75	16.0' RT	AP-STH 13	-	-	1	-	-	-	-	-	1	-	-	1	1239.11	1230.38	7.48
B4	1013+40	16.0' RT	AP-STH 13	-	-	1	-	-	-	-	-	-	-	1	1	1240.72	1233.44	6.03
B4.1	1013+33	8.4' RT	AP-STH 13	-	-	-	1	-	1	-	-	-	-	-	1	1240.59	1232.36	7.40
B4.2	1013+21	3.5' LT	AP-STH 13	-	-	-	1	-	1	-	-	-	-	-	1	1240.55	1232.48	7.24
B4.3	1013+18	23.2' LT	AP-STH 13	-	-	-	1	-	-	-	1	-	-	-	1	1240.42	1232.71	6.88
B4.4	1013+05	23.4' LT	AP-STH 13	-	-	-	1	-	-	-	1	-	-	-	1	1240.30	1233.09	6.38
B4.5	1013+46	23.4' RT	AP-STH 13	-	-	-	1	-	1	-	-	-	-	-	1	1240.69	1232.37	7.49
B4.6	1013+61	23.1' RT	AP-STH 13	-	-	-	1	-	-	-	1	-	-	-	1	1241.04	1233.70	6.51
B4.7	1013+75	47.3' RT	AP-STH 13	1	-	-	-	-	-	-	-	-	-	-	1		1237.19	
B5	1014+68	16.0' RT	AP-STH 13	-	-	1	-	-	-	-	-	1	-	-	1	1247.88	1238.92	7.71
B5.1	1014+70	44.1' LT	AP-STH 13	-	-	-	1	-	1	-	-	-	-	-	1	1249.42	1241.50	7.09
B5.2	1015+25	32.6' LT	AP-STH 13	-	-	-	1	-	-	-	1	-	-	-	1	1250.33	1243.13	6.36
B6	1016+07	16.0' RT	AP-STH 13	-	-	1	-	-	-	-	-	1	-	-	1	1251.84	1245.20	5.39
B6.1	1015+94	22.1' LT	AP-STH 13	-	-	-	1	-	-	-	1	-	-	-	1	1251.88	1244.69	6.35
B6.2	1016+07	23.5' RT	AP-STH 13	-	-	-	1	-	-	-	1	-	-	-	1	1251.59	1244.37	6.38
B7	1018+46	16.0' RT	AP-STH 13	-	-	1	-	-	-	-	-	1	-	-	1	1257.81	1251.15	5.41
B7.1	1018+45	21.8' LT	AP-STH 13	-	-	-	1	-	-	-	1	-	-	-	1	1257.70	1250.12	6.75
B8	1019+26	16.0' RT	AP-STH 13	-	-	1	-	-	-	-	-	1	-	-	1	1260.32	1253.47	5.60
B8.1	1019+27	22.90' LT	AP-STH 13	-	-	-	1	-	1	-	-	-	-	-	1	1260.10	1252.19	7.07
B8.2	1018+94	22.3' LT	AP-STH 13	-	-	-	1	-	1	-	-	-	-	-	1	1259.10	1252.60	5.66
B8.3	1018+91	46.2' LT	AP-STH 13	-	-	-	1	-	1	-	-	-	-	-	1	1259.01	1252.97	5.20
B8.4	1019+27	23.4' RT	AP-STH 13	-	-	-	1	-	-	-	1	-	-	-	1	1259.99	1252.65	6.51
B9	1022+06	16.0' RT	AP-STH 13	-	-	1	-	-	-	-	-	-	1	-	1	1271.35	1264.11	5.99
B9.1	1022+15	39.4' LT	AP-STH 13	-	-	-	1	-	1	-	-	-	-	-	1	1270.88	1262.94	7.11
B9.2	1022+40	40.4' LT	AP-STH 13	-	-	-	1	-	-	-	1	-	-	-	1	1270.89	1263.69	6.37
B9.3	1022+09	23.2' RT	AP-STH 13	-	-	-	1	-	1	-	-	-	-	-	1	1271.25	1262.81	7.61
B9.4	1022+48	16.6' RT	AP-STH 13	-	-	-	1	-	-	-	1	-	-	-	1	1271.75	1264.21	6.70
B10	1021+92	32.3' LT	AP-STH 13	-	-	-	-	-	-	-	-	-	-	-	1			
C1	1026+50	35.0' RT	AP-STH 13	1	-	-	-	-	-	-	-	-	-	-	1		1262.79	
C2	1026+02	24.1' RT	AP-STH 13	-	-	-	-	1	1	-	-	-	-	-	1	1268.73	1261.03	6.86
C2.1M	1025+92	96.2' RT	AP-STH 13	-	-	-	1	-	-	-	1	-	-	-	1	1274.77	1266.07	7.87
C3	1025+59	21.1' RT	AP-STH 13	-	-	-	1	-	1	-	-	-	-	-	1	1270.11	1262.11	7.16
C3.1	1025+64	30.8' LT	AP-STH 13	-	-	-	1	-	-	-	1	-	-	-	1	1269.19	1262.87	5.48
			TOTALS	2	2	7	33	1	14	3	17	5	1	1	46			

REMARKS:

*STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE

**RIM ELEV IS AT THE INLET COVER FLOWLINE LOCATION OR MANHOLE RIM

***FOR STRUCTURES WITH SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE SUMP. FOR STRUCTURES WITHOUT SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE LOWEST PIPE FLOW LINE

****DEPTH = RIM ELEV - TOP OF STRUCTURE BASE ELEV - COVER HEIGHT - 6-INCH ADJUSTMENT RING HEIGHT

STORM SEWER PIPES

FROM	-	TO	LOCATION	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	608.0412 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 12-INCH LF	608.0415 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 15-INCH LF	608.0418 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 18-INCH LF	608.2419 STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 19X30-INCH LF	608.3012 STORM SEWER PIPE CLASS II-A 12-INCH LF	608.3015 STORM SEWER PIPE CLASS III-A 15-INCH LF	608.3018 STORM SEWER PIPE CLASS III-A 18-INCH LF	JOINT TIES* EACH	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE FT/FT
A2	-	A1	AP-STH 13	80	-	-	-	-	-	-	-	16	1223.50	1223.09	0.0050
A2.1	-	A2	AP-STH 13	-	-	-	-	-	38	-	-	-	1224.62	1224.33	0.0075
A3	-	A2	AP-STH 13	47	-	-	-	-	-	-	-	-	1223.83	1223.60	0.0050
A3.1	-	A3	AP-STH 13	-	-	-	-	-	47	-	-	-	1224.91	1224.68	0.0050
A4	-	A3	AP-STH 13	317	-	-	-	-	-	-	-	-	1230.27	1223.93	0.0200
A4.1	-	A4	AP-STH 13	-	-	-	-	-	47	-	-	-	1231.74	1231.27	0.0100
A5	-	A4	AP-STH 13	244	-	-	-	-	-	-	-	-	1236.91	1230.80	0.0250
A6	-	A5	AP-STH 13	-	-	-	-	81	-	-	-	-	1239.96	1239.50	0.0057
A6.1	-	A6	AP-STH 13	-	40	-	-	-	-	-	-	-	1240.71	1240.54	0.0043
B2	-	B1	AP-STH 13	28	-	-	-	-	-	-	-	8	1228.14	1227.85	0.0100
B2.1	-	B2	AP-STH 13	-	-	-	-	-	41	-	-	-	1229.65	1229.24	0.0100
B3	-	B2	AP-STH 13	108	-	-	-	-	-	-	-	-	1230.38	1228.24	0.0199
B4	-	B3	AP-STH 13	165	-	-	-	-	-	-	-	-	1233.44	1230.47	0.0179
B4.1	-	B4	AP-STH 13	-	-	-	-	-	-	11	-	-	1234.36	1234.28	0.0070
B4.2	-	B4.1	AP-STH 13	-	-	-	-	-	-	16	-	-	1234.47	1234.36	0.0070
B4.3	-	B4.2	AP-STH 13	-	-	-	-	-	-	20	-	-	1234.71	1234.57	0.0070
B4.4	-	B4.3	AP-STH 13	-	-	-	-	-	13	-	-	-	1235.09	1234.96	0.0100
B4.5	-	B4	AP-STH 13	9	-	-	-	-	-	-	-	-	1234.37	1233.82	0.0588
B4.6	-	B4.5	AP-STH 13	-	-	-	-	-	14	-	-	-	1235.70	1235.38	0.0226
B4.7	-	B4.5	AP-STH 13	-	-	-	-	-	-	-	38	-	1237.19	1234.88	0.0618
B5	-	B4	AP-STH 13	127	-	-	-	-	-	-	-	-	1238.92	1233.54	0.0423
B5.1	-	B5	AP-STH 13	-	-	-	-	-	-	-	60	-	1243.50	1242.00	0.0250
B5.2	-	B5.1	AP-STH 13	-	-	-	-	-	56	-	-	-	1245.13	1244.00	0.0202
B6	-	B5	AP-STH 13	139	-	-	-	-	-	-	-	-	1245.20	1241.49	0.0267
B6.1	-	B6	AP-STH 13	-	-	-	-	-	40	-	-	-	1246.69	1246.29	0.0100
B6.2	-	B6	AP-STH 13	-	-	-	-	-	8	-	-	-	1246.37	1246.29	0.0100
B7	-	B6	AP-STH 13	239	-	-	-	-	-	-	-	-	1251.15	1245.56	0.0234
B7.1	-	B7	AP-STH 13	-	-	-	-	-	38	-	-	-	1252.12	1251.75	0.0100
B8	-	B7	AP-STH 13	81	-	-	-	-	-	-	-	-	1253.47	1251.25	0.0276
B8.1	-	B8	AP-STH 13	-	-	-	-	-	-	-	39	-	1254.19	1254.00	0.0050
B8.2	-	B8.1	AP-STH 13	-	-	32	-	-	-	-	-	-	1254.60	1254.44	0.0050
B8.3	-	B8.2	AP-STH 13	-	24	-	-	-	-	-	-	-	1254.97	1254.85	0.0050
B8.4	-	B8	AP-STH 13	-	-	-	-	-	7	-	-	-	1254.65	1254.57	0.0100
B9	-	B8	AP-STH 13	280	-	-	-	-	-	-	-	-	1264.11	1253.57	0.0376
B9.1	-	B9	AP-STH 13	-	-	-	-	-	-	-	56	-	1264.94	1264.61	0.0058
B9.2	-	B9.1	AP-STH 13	-	-	-	-	-	25	-	-	-	1265.69	1265.44	0.0100
B9.3	-	B9	AP-STH 13	-	-	-	-	-	-	-	8	-	1264.81	1264.61	0.0250
B9.4	-	B9.3	AP-STH 13	-	-	-	-	-	39	-	-	-	1266.21	1265.31	0.0232
C2	-	C1	AP-STH 13	-	-	-	-	-	-	-	50	6	1263.03	1262.79	0.0050
C2.1	-	C2	AP-STH 13	-	-	-	-	-	73	-	-	-	1268.25	1263.52	0.0650
C3	-	C2	AP-STH 13	-	-	-	43	-	-	-	-	-	1264.11	1263.88	0.0055
C3.1	-	C3	AP-STH 13	-	52	-	-	-	-	-	-	-	1264.87	1264.61	0.0050
			TOTALS	1864	116	32	43	81	486	47	251	30			

*NON-BID ITEM: FOR INFORMATION ONLY

3

40-INCH STEEL CASING PIPE

DESCRIPTION	LOCATION	SPV.0090.27 LF
Z1 TO Z2	1012+25.1, 16' RT TO 1013+35.6, 16' RT	110
TOTAL		110

REMOVING STORM SEWER

CATEGORY	STATION	TO	STATION	204.0245.01 REMOVING STORM SEWER (SIZE) (01. 8-INCH) LF	204.0245.02 REMOVING STORM SEWER (SIZE) (02. 12-INCH) LF	204.0245.03 REMOVING STORM SEWER (SIZE) (03. 15-INCH) LF	204.0245.04 REMOVING STORM SEWER (SIZE) (04. 18-INCH) LF	204.0245.05 REMOVING STORM SEWER (SIZE) (05. 24-INCH) LF
0010	1001+92	-	1009+94	-	-	35	-	-
0010	1009+94	-	1002+05	-	-	7	-	-
0010	1009+94	-	1009+94	-	-	-	34	-
0010	1009+60	-	1009+60	39	-	-	-	-
0010	1009+60	-	1009+75	20	-	-	-	-
0010	1009+60	-	1009+88	28	-	-	-	-
0010	1010+32	-	1010+32	55	-	-	-	-
0010	1013+11	-	1013+55	66	-	-	-	-
0010	1017+45	-	1018+63	-	-	-	-	118
0010	1018+63	-	1020+00	-	-	-	137	
0010	1022+06	-	1022+45	-	58	-	-	-
0010	1022+17	-	1023+06	-	-	-	89	-
0010	1023+06	-	1025+49	-	-	-	243	-
0010	1025+44	-	1025+49	-	10	-	-	-
0010	1025+44	-	1025+59	32	-	-	-	-
0010	1025+49	-	1025+64	-	-	-	40	-
0010	1025+47	-	1025+64	-	18	-	-	-
0010	1025+64	-	1027+97	-	-	-	231	-
	TOTAL (CATEGORY 0010)			240	86	42	774	118

REMOVING MANHOLES, CATCH BASINS, AND INLETS

CATEGORY	STATION	204.0210 REMOVING MANHOLES EACH	204.0215 REMOVING CATCH BASINS EACH	204.0220 REMOVING INLETS EACH
0010	1001+92	-	-	1
0010	1001+94	-	-	1
0010	1002+05	-	1	-
0010	1009+60	-	-	1
0010	1009+60	-	-	1
0010	1009+88	-	-	1
0010	1010+32	-	-	1
0010	1010+32	-	-	1
0010	1013+11	-	-	1
0010	1013+55	-	-	1
0010	1018+45	-	-	1
0010	1022+06	-	1	-
0010	1022+45	-	1	-
0010	1023+06	1	-	-
0010	1025+44	-	-	1
0010	1025+47	-	1	-
0010	1025+49	1	-	-
0010	1025+59	-	1	-
0010	1025+64	1	-	-
TOTAL (CATEGORY 0010)		3	5	10

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LIGHTING UNITS AND ELECTRICAL WIRE LIGHTING

CATEGORY	UNIT NUMBER	STATION	OFFSET	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG LF	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	657.0322 POLES TYPE 5 ALUMINUM EACH	657.0615 LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 8-FT EACH	659.1125 LUMINAIRES UTILITY LED C EACH	SPV.0060.30 DECORATIVE LIGHTING UNIT EACH	SPV.0060.31 SALVAGE AND REINSTALL DECORATIVE LIGHTING UNIT EACH
0040	A-1	999+00.00	22.0' RT	162	-	1	1	1	1	-	-
0040	A-2	1000+76.00	22.0' RT	162	-	1	1	1	1	-	-
0040	A-3	1002+82.34	30.0' RT	162	-	1	1	1	1	-	-
0040	A-4	1004+35.00	31.7' RT	162	-	1	1	1	1	-	-
0040	A-5	1005+97.75	31.9' RT	162	-	1	1	1	1	-	-
0040	A-6	1007+45.00	31.7' RT	162	-	1	1	1	1	-	-
0040	A-7	1008+95.00	31.7' RT	162	-	1	1	1	1	-	-
0040	A-8	1010+75.65	26.1' RT	162	-	1	1	1	1	-	-
0040	A-9	1011+96.21	27.4' LT	162	-	1	1	1	1	-	-
0010	B-1	1013+65.00	32.0' RT	114	54	-	-	-	-	-	1
0010	B-2	1014+45.50	32.7' LT	114	54	-	-	-	-	-	1
0010	B-3	1015+26.98	31.4' RT	114	54	-	-	-	-	-	1
0010	B-4	1016+51.27	31.8' LT	114	54	-	-	-	-	-	1
0010	B-5	1017+77.98	32.0' RT	114	54	-	-	-	-	-	1
0010	B-6	1018+31.59	37.3' LT	114	54	-	-	-	-	-	1
0010	B-7	1018+97.91	42.3' RT	114	54	-	-	-	-	-	1
0010	B-7X	1019+62.50	32.5' RT	114	54	-	-	-	-	-	1
0010	B-8	1020+57.27	31.8' LT	114	54	-	-	-	-	-	1
0010	B-9	1021+38.96	29.1' RT	114	54	-	-	-	-	-	1
0010	B-10	1021+92.40	32.3' LT	114	54	-	-	-	-	-	1
0010	B-11	1022+58.44	21.9' RT	114	54	-	-	-	-	-	-
0040	B-12	1023+52.30	19.8' LT	114	54	-	-	-	-	1	-
0040	B-13	1024+47.32	19.7' LT	114	54	-	-	-	-	1	-
0040	B-14	1025+49.00	23.0' RT	114	54	-	-	-	-	1	-
0040	B-15	1027+24.34	27.8' LT	162	-	1	1	1	1	-	-
TOTAL (CATEGORY 0010)				1,368	648	-	-	-	-	-	11
TOTAL (CATEGORY 0040)				1,962	162	10	10	10	10	3	-
TOTAL (PROJECT)				3,330	810	10	10	10	10	3	11

CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS

CATEGORY	LOCATION	650.8501 EACH
0010	PROJECT (1610-00-76)	1
0040	PROJECT (1610-00-76)	1
TOTAL (CATEGORY 0010)		1
TOTAL (CATEGORY 0040)		1
TOTAL (PROJECT)		2

PULL BOXES NON-CONDUCTIVE 24X42-INCH

CATEGORY	DESCRIPTION	STATION	OFFSET	653.0164 EACH
0040	LPB-1	1000+65.00	21.9' RT	1
0040	LPB-2	1000+65.00	21.9' LT	1
0040	LPB-3	1001+92.98	22.8' LT	1
0040	LPB-4	1002+49.72	21.9' LT	1
0040	LPB-5	1002+77.19	32.8' RT	1
0040	LPB-6	1009+47.57	30.8' RT	1
0040	LPB-8	1010+68.86	25.4' LT	1
0040	LPB-7	1010+70.39	26.1' RT	1
0010	LPB-9	1014+46.69	27.2' RT	1
0010	LPB-10	1014+48.18	32.6' LT	1
0010	LPB-11	1015+49.44	54.1' LT	1
0010	LPB-12	1018+27.24	21.1' LT	1
0010	LPB-13	1018+41.41	24.0' RT	1
0010	LPB-14	1018+93.30	24.0' LT	1
0010	LPB-15	1018+96.48	25.2' RT	1
0010	LPB-16	1021+92.75	25.7' LT	1
0010	LPB-17	1022+05.94	20.8' LT	1
0010	LPB-18	1022+44.98	42.8' LT	1
0010	LPB-19	1022+50.12	22.5' RT	1
0010	LPB-20	1022+50.75	19.8' LT	1
0040	LPB-21	1025+48.37	19.4' LT	1
0040	LPB-22	1025+52.68	23.2' RT	1
0040	LPB-23	1025+98.17	32.8' LT	1
TOTAL (CATEGORY 0010)				12
TOTAL (CATEGORY 0040)				11
TOTAL (PROJECT)				23

REMOVING CONCRETE BASES

CATEGORY	ID	STATION	OFFSET	204.0195 EACH
0010	EX B-1	1013+85	31' RT	1
0010	EX B-2	1014+64	32' LT	1
0010	EX B-3	1015+19	33' RT	1
0010	EX B-4	1016+51	32' LT	1
0010	EX B-5	1017+77	32' RT	1
0010	EX B-6	1018+32	37' LT	1
0010	EX B-7	1018+93	37' RT	1
0010	EX B-7X	1019+62	33' RT	1
0010	EX B-8	1020+57	33' LT	1
0010	EX B-9	1021+10	29' RT	1
TOTAL (CATEGORY 0010)				10
TOTAL (CATEGORY 0040)				-
TOTAL (PROJECT)				10

CONDUIT RIGID NONMETALLIC SCHEDULE 40 AND ELECTRICAL WIRE LIGHTING

CATEGORY	FROM	TO	652.0235 3-INCH LF	652.0225 2-INCH LF	655.0630 4 AWG LF	655.0625 6 AWG LF	655.0620 8 AWG LF
0040	A-1	LPB-1	-	166	-	-	516
0040	A-2	LPB-1	-	11	-	-	85
0040	LPB-1	LPB-2	-	44	-	-	150
0040	LPB-2	LPB-3	-	128	-	-	402
0040	LPB-3	LPB-4	-	57	-	-	189
0040	LCC A	LPB-4X	15	-	-	-	55
0040	LPB-4X	LPB-4	-	15	-	-	105
0040	LPB-4	LPB-5	-	62	-	-	204
0040	LPB-5	A-3	-	6	-	-	36
0040	A-3	A-4	-	153	-	-	477
0040	A-4	A-5	-	158	-	-	492
0040	A-5	A-6	-	153	-	-	477
0040	A-6	A-7	-	151	-	-	471
0040	A-7	LPB-6	-	54	-	-	180
0040	LPB-6	LPB-7	-	62	-	-	204
0040	LPB-7	A-8	-	6	-	-	60
0040	LPB-7	LPB-8	-	53	-	-	177
0040	LPB-8	A-9	-	131	-	-	411
0040	A-9	STUB	-	10	-	-	-
0010	B-1	STUB	-	10	-	-	-
0010	B-1	LPB-9	-	83	-	178	267
0010	LPB-9	B-3	-	80	-	172	258
0010	LPB-9	LPB-10	-	60	-	-	198
0010	LPB-10	B-2	-	3	-	-	45
0010	LPB-10	LPB-11	-	103	-	-	545
0010	B-3	B-5	-	253	-	518	777
0010	LPB-11	B-4	-	103	-	-	545
0010	B-4	B-6	-	181	-	374	561
0010	B-6	LPB-13	-	17	-	92	69
0010	B-5	LPB-12	-	50	-	224	168
0010	LPB-12	LPB-13	-	51	-	-	171
0010	LPB-12	LPB-14	-	67	-	146	219
0010	LPB-13	LPB-15	-	56	-	124	186
0010	LPB-14	LPB-15	-	53	-	-	177
0010	B-7	LPB-14	-	18	48	48	120
0010	LPB-14	B-7X		70			228
0010	B-7X	B-9	-	180	372	-	558
0010	LPB-15	B-8	-	161	-	334	501
0010	B-8	B-10	-	136	-	284	426
0010	B-10	LPB-16	-	12	-	36	54
0010	B-9	LPB-17	-	68	148	-	222
0010	LPB-16	LPB-17	-	51	-	-	171
0010	LPB-17	LPB-19	-	41	94	-	141
0010	LPB-16	LPB-20	-	59	-	130	195
0010	LPB-19	LPB-20	-	47	106	-	371
0010	LPB-19	B-11	-	13	-	-	95
0010	LCC B	LPB-18	18	-	24	24	156
0010	LPB-18	LPB-20	-	50	62	62	403
0040	LPB-20	B-12	-	102	-	-	540
0040	B-12	B-13	-	96	-	-	510
0040	B-13	LPB-21	-	102	-	-	756
0040	LPB-21	LPB-22	-	43	-	-	245
0040	LPB-21	LPB-23	-	53	-	-	177
0040	B-14	LPB-22	-	4	-	-	50
0040	LPB-23	B15	-	128	-	-	402
0040	B-15	STUB	-	10	-	-	-
0010	LPB-13	EX 1	-	20	-	202	303
0010	LPB-15	EX 2	-	35	-	92	138
0010	LPB-12	EX 3	-	55	-	222	333
TOTAL (CATEGORY 0010)			18	2186	854	3262	8601
TOTAL (CATEGORY 0040)			15	1958	-	-	7371
TOTAL (PROJECT)			33	4144	854	3262	15972

CONCRETE BASES

CATEGORY	UNIT NUMBER	STATION	OFFSET	654.0105 Type 5 EACH	SPV.0060.32 Type 5-Dec EACH
0040	A-1	999+00.00	22.0' RT	1	-
0040	A-2	1000+76.00	22.0' RT	1	-
0040	A-3	1002+82.34	30.0' RT	1	-
0040	A-4	1004+35.00	31.7' RT	1	-
0040	A-5	1005+97.75	31.9' RT	1	-
0040	A-6	1007+45.00	31.7' RT	1	-
0040	A-7	1008+95.00	31.7' RT	1	-
0040	A-8	1010+75.65	26.1' RT	1	-
0040	A-9	1011+96.21	27.4' LT	1	-
0010	B-1	1013+65.00	32.0' RT	-	1
0010	B-2	1014+45.50	32.7' LT	-	1
0010	B-3	1015+26.98	31.4' RT	-	1
0010	B-4	1016+51.27	31.8' LT	-	1
0010	B-5	1017+77.98	32.0' RT	-	1
0010	B-6	1018+31.59	37.3' LT	-	1
0010	B-7	1018+97.91	42.3' RT	-	1
0010	B-7X	1019+62.50	32.5' RT	-	1
0010	B-8	1020+57.27	31.8' LT	-	1
0010	B-9	1021+38.96	29.1' RT	-	1
0010	B-10	1021+92.40	32.3' LT	-	1
0040	B-12	1023+52.30	19.8' LT	-	1
0040	B-13	1024+47.32	19.7' LT	-	1
0040	B-14	1025+49.00	23.0' RT	-	1
0040	B-15	1027+24.34	27.8' LT	1	-
TOTAL (CATEGORY 0010)				-	11
TOTAL (CATEGORY 0040)				10	3
TOTAL (PROJECT)				10	14

LIGHTING CONTROL CABINET AND BASES

CATEGORY	STATION	LOCATION	654.0224 CONCRETE CONTROL CABINET BASES TYPE L24 EACH	654.0230 CONCRETE CONTROL CABINET BASES TYPE L30 EACH	656.0201 ELECTRICAL SERVICE METER BREAKER PEDESTAL EACH	659.2124 LIGHTING CONTROL CABINETS 120/240 24-INCH EACH	659.2130 LIGHTING CONTROL CABINETS 120/240 30-INCH EACH
0040	1002+45.81, 40.2' LT	LCC A	1	-	1	1	-
0010	1022+49.21, 43.1' LT	LCC B	-	1	1	-	1
TOTAL (CATEGORY 0010)			-	1	1	-	1
TOTAL (CATEGORY 0040)			1	-	1	1	-
TOTAL (PROJECT)			1	1	2	1	1

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ABANDON EXISTING WATER MAIN

CATEGORY	STATION	OFFSET	SPV.0060.01 EACH
0010	998+60	10.7' LT	1
0010	1002+15.0	1.3' RT	2
0010	1002+33.5	43.1' LT	1
0010	1002+46.9	43.5' RT	1
0010	1007+39.9	4.1' RT	2
0010	1008+68.6	9.8' RT	1
0010	1010+65.9	13.9' LT	1
0010	1011+99.4	12.2' RT	2
0010	1014+91.5	31.7' LT	1
0010	1018+53.9	11.9' RT	2
0010	1022+30.1	2.6' LT	1
0010	1029+48.6	25.2' LT	1
0010	1029+48.6	48.2' LT	1
PROJECT ID 1610-00-78 SUMMARY			17

ABANDON EXISTING VALVE

CATEGORY	STATION	OFFSET	SPV.0060.05 EACH
0010	1001+73	0' LT	1
0010	1002+35	33' LT	1
0010	1008+67	12' RT	1
0010	1011+88	12' RT	1
0010	1012+00	18' RT	1
0010	1014+92	32' LT	1
0010	1018+54	25' RT	1
PROJECT ID 1610-00-78 SUMMARY			7

SALVAGE EXISTING HYDRANT

CATEGORY	STATION	OFFSET	SPV.0060.02 EACH
0010	1002+77	54.3' RT	1
0010	1005+34.9	36.2' RT	1
0010	1019+10.2	38.3' RT	1
0010	1022+3.9	35.8' RT	1
0010	1026+17	35.6' LT	1
0010	1030+68.9	53.4' LT	1
PROJECT ID 1610-00-78 SUMMARY			6

HYDRANT

CATEGORY	STATION	OFFSET	SPV.0060.09 EACH	BREAKOFF ELEVATION
0010	69+10.7	15.4' LT	1	1283.71
0010	71+31.8	17.0' LT	1	1271.43
0010	84+33.7	15.2' LT	1	1253.81
0010	1002+75.5	46.9' RT	1	1245.34
0010	1005+92.7	22.7' LT	1	1236.16
0010	1008+93.1	23.7' LT	1	1230.47
0010	1014+25.0	35.4' LT	1	1223.09
0010	1018+42.0	26.6' RT	1	1258.10
0010	1026+17.0	35.6' LT	1	1253.13
0010	1031+69.9	63.0' LT	1	1223.24
PROJECT ID 1610-00-78 SUMMARY			10	

CONNECT TO EXISTING WATER MAIN

CATEGORY	STATION	OFFSET	SIZE (IN)	SPV.0060.10 EACH
0010	41+29	7.6' RT	8	1
0010	72+27	7.8' RT	6	1
0010	80+76	6.7' LT	6	1
0010	998+60	24.1' LT	6	1
0010	1002+31	50.0' LT	6	1
0010	1002+57	68.7' RT	6	1
0010	1007+40	28.4' RT	6	1
0010	1014+93	65.9' LT	6	1
0010	1018+54	55.2' RT	8	1
0010	1018+85	60.1' LT	6	1
0010	1029+47	51.5' RT	6	1
0010	1031+80	40.1' LT	6	1
PROJECT ID 1610-00-78 SUMMARY				12

GATE VALVE AND BOX

CATEGORY	STATION	OFFSET	SPV.0060.06 6-INCH EACH	SPV.0060.07 8-INCH EACH	SPV.0060.08 12-INCH EACH
0010	41+28.8	7.6' RT	--	1	--
0010	69+10.2	11.1' LT	1	--	--
0010	71+32.1	9.9' LT	1	--	--
0010	72+26.6	7.8' RT	1	--	--
0010	80+76.3	6.7' LT	1	--	--
0010	81+76.7	7.9' RT	1	--	--
0010	84+33.7	15.2' LT	1	--	--
0010	998+55.9	24.1' LT	1	--	--
0010	1002+09.2	6.0' RT	--	--	1
0010	1002+18.7	10.8' RT	--	1	--
0010	1002+27.3	38.5' LT	1	--	--
0010	1002+43.9	6.0' LT	--	--	1
0010	1002+57.3	68.7' RT	1	--	--
0010	1002+61.4	55.5' RT	1	--	--
0010	1005+92.4	18.4' LT	1	--	--
0010	1005+80.0	10.0' LT	--	--	1
0010	1007+40.0	28.4' RT	1	--	--
0010	1008+82.8	9.9' LT	--	--	1
0010	1008+93.6	13.7' LT	1	--	--
0010	1011+94.1	10.0' LT	--	--	1
0010	1012+00.0	2.7' LT	--	--	1
0010	1012+09.1	10.0' LT	--	--	1
0010	1014+25.3	16.6' LT	1	--	--
0010	1014+77.0	10.0' LT	--	--	1
0010	1014+92.7	65.9' LT	1	--	--
0010	1014+93.6	10.0' LT	--	--	1
0010	1018+45.7	26.6' RT	1	--	--
0010	1018+47.9	10.0' LT	--	--	1
0010	1018+54	55.2' RT	--	1	--
0010	1018+84.7	60.1' LT	1	--	--
0010	1022+08.2	16.0' LT	--	--	1
0010	1022+33.8	26.0' LT	1	--	--
0010	1022+40.7	16.0' LT	--	--	1
0010	1025+75.5	16.9' LT	--	--	1
0010	1025.92.1	18.0' LT	--	--	1
0010	1026+17.4	27.7' LT	1	--	--
0010	1029+32.3	26.7' LT	--	--	1
0010	1029+47.2	51.5' RT	1	--	--
0010	1031+72.2	49.0' LT	1	--	--
0010	1031+80.0	40.1' LT	1	--	--
PROJECT ID 1610-00-78 SUMMARY			22	3	15

3

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\030203-MQ MELLEN.DWG
LAYOUT NAME - 01
PLOT DATE : 10/17/2022 2:06 PM PLOT BY : AYRES PLOT NAME : PLOT SCALE : 1" = 1'
WISDOT/CADDS SHEET 42

3

WATER SERVICE BORED PE 1-INCH

CATEGORY	STATION TO STATION	OFFSET	SPV.0090.07 LF
0010	999+27	6.1'LT - 29.8'RT	36
0010	1001+13	6.2'LT - 30.0'RT	31
0010	1004+03	10.0'LT - 25.5'RT	36
0010	1016+28	10.0 LT - 36.0'RT	46
0010	1017+22	10.0'LT - 26.0'RT	36
0010	1019+53	11.7'LT - 23.9 RT	36
PROJECT ID 1610-00-78 SUMMARY			221

TEMPORARY WATER SERVICE

CATEGORY	LOCATION	SPV.0060.21 EACH
0010	PROJECT (1610-00-78)	1
PROJECT ID 1610-00-78 SUMMARY		1

CONSTRUCTION STAKING WATER MAIN STRUCTURE

CATEGORY		SPV.0060.13 EACH
0010	HYDRANT	10
0010	VALVE AND BOX	40
0010	CURB STOP	45
PROJECT ID 1610-00-78 SUMMARY		95

22-INCH STEEL CASING PIPE

DESCRIPTION	LOCATION	SPV.0090.18 LF
Z3 TO Z4	1012+17, 10.0'LT - 1013+13, 10.0'LT	96
PROJECT ID 1610-00-78 SUMMARY		96

WATER SERVICE PE 1-INCH

CATEGORY	STATION TO STATION	OFFSET	SPV.0090.09 LF
0010	69+22 - 69+34	14.4'LT - 1.5'LT	18
0010	69+36	1.9'LT - 23.1'RT	25
0010	69+79	2.1'LT - 25.5'LT	24
0010	69+95	2.2'LT - 25.0'RT	28
0010	70+72	4.5'LT - 23.4'LT	19
0010	72+20	7.9'RT - 12.0'LT	20
0010	82+02	7.8'LT - 22.1'RT	30
0010	82+44	7.5'LT - 25.1'LT	18
0010	83+15	7.1'LT - 19.5'LT	12
0010	83+72	8.0'LT - 20.9'LT	13
0010	83+83	8.1'LT - 18.7'RT	27
0010	84+23	9.2'LT - 21.4'LT	13
0010	999+13	6.2'LT - 26.9'LT	21
0010	999+71	6.2'LT - 25.4'LT	20
0010	1000+21	6.2'LT - 22.5'LT	17
0010	1000+77	6.1'LT - 24.8'LT	19
0010	1001+04	6.3'LT - 26.2'LT	20
0010	1002+36	52.8'RT - 60.3'RT	12
0010	1003+48	9.5'LT - 25.2'LT	15
0010	1004+09	10.0'LT - 26.5'LT	17
0010	1005+38	10.0'LT - 25.2'LT	15
0010	1006+20	10.0'LT - 25.3'LT	15
0010	1006+54	9.7'LT - 25.5'LT	16
0010	1007+34	9.8'LT - 25.0'LT	16
0010	1008+13	9.8'LT - 25.5'LT	16
0010	1008+66	9.8'LT - 24.3'LT	15
0010	1011+78 - 1011+97	129.8'RT - 119.2' RT	22
0010	1015+54	10.0'LT - 26.9'LT	17
0010	1015+58	10.0'LT - 27.5'LT	18
0010	1016+46	9.9'LT - 25.9'LT	16
0010	1017+07	9.8'LT - 25.5'LT	16
0010	1017+68	10.0'LT - 25.0'LT	15
0010	1018+43 - 1018+54	51.5'RT	11
0010	1019+55	12.0'LT -25.5'LT	28
0010	1020+61	14.5'LT - 27.3'LT	12
0010	1021+05	15.0'LT - 25.5'RT	40
0010	1021+81	16.0'LT - 26.8'LT	11
0010	1024+76	16.5'LT - 25.0'LT	9
0010	1029+19	25.5'LT - 48.0 'LT	23
0010	1031+47	41.2'LT - 43.2'LT	2
PROJECT ID 1610-00-78 SUMMARY			721

CORP STOP CURB STOP AND BOX

CATEGORY	STATION	OFFSET	SPV.0060.11 1-INCH EACH
0010	69+34	14.4'LT	1
0010	69+36	23.1'RT	1
0010	69+79	25.5'LT	1
0010	69+95	25.0'RT	1
0010	70+72	23.4'LT	1
0010	72+20	12.0'LT	1
0010	82+02	22.1'RT	1
0010	83+15	25.1'LT	1
0010	82+44	19.5'LT	1
0010	83+72	20.9'LT	1
0010	83+83	18.7'RT	1
0010	84+23	21.4'LT	1
0010	999+13	26.9'LT	1
0010	999+27	29.8'RT	1
0010	999+71	25.4'LT	1
0010	1000+21	22.5'LT	1
0010	1000+77	24.8'LT	1
0010	1001+04	26.2'LT	1
0010	1001+13	30.0'RT	1
0010	1002+36	60.3'RT	1
0010	1004+03	25.5'RT	1
0010	1004+09	26.5'LT	1
0010	1005+38	25.2'LT	1
0010	1006+20	25.3'LT	1
0010	1006+54	25.5'LT	1
0010	1007+34	25.0'LT	1
0010	1008+13	25.5'LT	1
0010	1008+66	24.3'LT	1
0010	1011+97	119'RT	1
0010	1015+54	26.9'LT	1
0010	1015+58	27.5'LT	1
0010	1016+46	25.9'LT	1
0010	1016+28	36.0'RT	1
0010	1017+07	25.5'LT	1
0010	1017+22	26.0'RT	1
0010	1017+68	25.0'LT	1
0010	1018+54	51.5'RT	1
0010	1019+53	23.9'RT	1
0010	1019+55	25.5'LT	1
0010	1020+61	27.3 LT	1
0010	1021+05	25.5'RT	1
0010	1021+81	26.8'LT	1
0010	1024+76	25.0'LT	1
0010	1029+19	48.0'LT	1
0010	1031+47	43.2'LT	1
PROJECT ID 1610-00-78 SUMMARY			45

WATER VALVE MANHOLE

CATEGORY	STATION	OFFSET	SPV.0060.22 EACH
0010	1011+17.9	25.4'LT	1
PROJECT ID 1610-00-78 SUMMARY			1

TEMPORARY CDBG PROJECT SIGN

CATEGORY	LOCATION	SPV.0060.23 EACH
0010	PROJECT (1610-00-78)	1
PROJECT ID 1610-00-78 SUMMARY		1

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WATER MAIN

CATEGORY	STATION TO STATION	OFFSET	SPV.0090.01 PVC 6-INCH LF	SPV.0090.02 PVC 8-INCH LF	SPV.0090.03 PVC 12-INCH LF	SPV.0090.04 DIRECTIONALLY DRILLED 12-INCH LF	SPV.0090.10 CONSTRUCTION STAKING WATER MAIN PIPE LF
0010	69+09 - 69+11	3.9' LT - 15.4' LT	12	--	--	--	12
0010	69+09 - 1022+34	11.1' LT - 16.0' LT	240	--	--	--	240
0010	71+32	6.4' LT - 17.0' LT	11	--	--	--	11
0010	998+55 - 998+56	24.1' LT - 6.0' LT	18	--	--	--	18
0010	998+56 - 1002+15	6.0' LT	--	--	359	--	359
0010	1002+15	6.0' LT - 3.8' RT	--	10	--	--	10
0010	1002+15 - 1002+22	3.8' RT - 19.6' RT	--	15	--	--	15
0010	1002+22 - 1002+52	19.6' RT - 61.3' RT	--	41	--	--	41
0010	1002+52 - 1002+55	61.3' RT - 69.5' RT	--	10	--	--	10
0010	1002+55 - 1002+57	69.5' RT - 68.7' RT	3	--	--	--	3
0010	1002+52 - 1002+75	61.3' RT - 46.9' RT	26	--	--	--	26
0010	1002+15 - 1002+28	6.0' LT	--	--	13	--	13
0010	1002+28 - 1002+27	6.0' LT - 35.1' LT	--	29	--	--	29
0010	1002+27	35.1' LT - 45.1' LT	10	--	--	--	10
0010	1002+27 - 1002+31	45.1' LT - 50.0' LT	6	--	--	--	6
0010	1002+28 - 1005+92	6.0' LT - 10.0' LT	--	--	364	--	364
0010	1005+92	10.0' LT - 22.7' LT	13	--	--	--	13
0010	1005+95 - 1007+40	10.0' LT	--	--	145	--	145
0010	1007+40	10.0' LT - 28.4' RT	39	--	--	--	39
0010	1007+40 - 1008+93	10.0' LT - 9.9' LT	--	--	153	--	153
0010	1008+93	9.9' LT - 23.7' LT	14	--	--	--	14
0010	1008+93 - 1009+18	9.9' LT - 10.0' LT	--	--	25	--	25
0010	1009+18 - 1009+50	10.0' LT - 43.0' LT	--	--	46	--	46
0010	1009+50 - 1011+17	43.0' LT - 25.4' LT	--	--	--	167	167
0010	1011+17 - 1011+52	25.4' LT - 10.0' LT	--	--	35	--	35
0010	1011+52 - 1012+00	10.0' LT	--	--	48	--	48
0010	1012+00 - 41+26	10.0' LT - 7.6' RT	--	--	135	--	135
0010	41+26 - 41+29	7.6' RT	--	3	--	--	3
0010	1012+00 - 1014+25	10.0' LT	--	--	225	--	225
0010	1014+25	10.0' LT - 35.4' LT	15	--	--	--	15
0010	1014+25 - 1014+85	10.0' LT	--	--	60	--	60
0010	1014+85 - 1014+93	10.0' LT - 62.5' LT	--	52	--	--	52
0010	1014+93	62.5' LT - 65.9' LT	3	--	--	--	3
0010	1014+85 - 1018+53	10.0' LT	--	--	368	--	368
0010	1018+53 - 1018+42	26.5' RT - 26.6' RT	12	--	--	--	12
0010	1018+54	10.0' LT - 55.2' RT	--	65	--	--	65
0010	1018+54 - 1018+85	10.0' LT	--	--	31	--	31
0010	1018+85	10.0' LT - 57.1' LT	--	47	--	--	47
0010	1018+85	57.1' LT - 60.1' LT	--	3	--	--	3
0010	1018+85 - 1022+14	10.0' LT - 15.9' LT	--	--	329	--	329
0010	1022+14 - 72+24	15.9' LT - 7.8' RT	--	80	--	--	80
0010	72+24 - 72+27	7.8' RT	3	--	--	--	3
0010	1022+14 - 1022+34	15.9' LT - 16.0' LT	--	--	20	--	20
0010	1022+34 - 1025+81	16.0' LT - 17.1' LT	--	--	47	--	47

WATER MAIN

CATEGORY	STATION TO STATION	OFFSET	SPV.0090.01 PVC 6-INCH LF	SPV.0090.02 PVC 8-INCH LF	SPV.0090.03 PVC 12-INCH LF	SPV.0090.04 DIRECTIONALLY DRILLED 12-INCH LF	SPV.0090.10 CONSTRUCTION STAKING WATER MAIN PIPE LF
0010	1025+81 - 80+80	17.1' LT - 6.6' LT	--	25	--	--	25
0010	80+80 - 80+76	6.6' LT - 6.7' LT	4		--	--	4
0010	1025+81 - 1025+86	17.1' LT - 17.3' LT	--	--	5	--	5
0010	1025+86 - 81+73	17.3 LT - 8.0' LT	--	67	--	--	67
0010	81+73 - 84+34	8.0' LT - 9.5' LT	261	--	--	--	261
0010	84+34	9.5' LT - 19.5' LT	10	--	--	--	10
0010	1025+86 - 1026+17	17.3' LT - 19.2' LT	--	--	31	--	31
0010	1026+17	19.2' LT - 35.6' LT	17	--	--	--	17
0010	1026+17 - 1029+39	19.2' LT - 26.8' LT	--	--	322	--	322
0010	1029+39 - 1029+47	26.8' LT - 51.5' RT	--	26	--	--	26
0010	1029+47 - 1029+46	51.5' RT - 56.5' RT	6	--	--	--	6
0010	1029+39 - 1031+70	26.8' LT - 40.0' LT	--	--	231	--	231
0010	1031+70 - 1031+73	40.0' LT - 40.3' LT	3	--	--	--	3
0010	1031+73 - 1031+70	40.3' LT - 63.0' LT	24	--	--	--	24
0010	1031+73 - 1031+77	40.3' LT - 41.0' LT	4	--	--	--	4
	PROJECT ID 1610-00-78 SUMMARY		754	473	2992	167	4386

SANITARY SEWER

CATEGORY	FROM		TO	SPV.0090.11 PVC 8-INCH LF	SPV.0090.13 PVC 12-INCH LF	SPV.0090.17 CONSTRUCTION STAKING SANITARY PIPE LF	SPV.0090.16 TELEVISING LF
0010	EX	-	EX	--	82	82	82
0010	EX	-	EX	58	--	58	58
0010	EX	-	EX	--	92	92	92
0010	EX SAN MH S33	-	SAN MH 8	41	--	41	41
0010	SAN MH 8	-	SAN MH 9	119	--	119	119
0010	SAN MH 9	-	EX	50	--	50	50
0010	SAN MH 9	-	SAN MH 10	361	--	361	361
0010	SAN MH 11	-	SAN MH 13	346	--	346	346
0010	SAN MH 11X	-	SAN MH 11	168	--	168	168
0010	SAN MH 12	-	SAN MH 11X	79	--	79	79
0010	SAN MH 13	-	SAN MH 15	296	--	296	296
0010	SAN MH 16	-	SAN MH 17	369	--	369	369
PROJECT ID 1610-00-78 SUMMARY				1887	174	2061	2061

SANITARY MANHOLE

CATEGORY	STRUCTURE	STATION	OFFSET	SPV.0200.01 4-FOOT VF	SPV.0060.16 COVER TYPE J-S EACH	SPV.0060.20 CONSTRUCTION STAKING SANITARY STRUCTURE EACH
0010	SAN MH 8	1017+44	1.0' RT	7.1	1	1
0010	SAN MH 9	1018+64	0.2' LT	7.7	1	1
0010	SAN MH 11	1022+24	6.0' LT	10.9	1	1
0010	SAN MH 11X	69+91	6.5' RT	9.3	1	1
0010	SAN MH 12	69+11	4.6' RT	9.1	1	1
0010	SAN MH 13	1025+69	6.0' LT	7.2	1	1
0010	SAN MH 15	84+11	0.5' RT	8.9	1	1
0010	SAN MH 16	1027+86	36.3' LT	4.7	1	1
0010	SAN MH 17	1031+55	51.7' LT	9.3	1	1
PROJECT ID 1610-00-78 SUMMARY				74.3	9	9

ABANDONING SEWER

CATEGORY	STATION	TO	STATION	204.0291.S CY
0010	1020+00	-	1022+24	60
0010	1022+24	-	1025+69	90
PROJECT ID 1610-00-78 SUMMARY				150

REMOVING MANHOLES

CATEGORY	STATION	204.0210 EACH
0010	1017+44	1
0010	1018+63	1
0010	1022+24	1
0010	1025+69	1
0010	1027+85	1
0010	1031+55	1
PROJECT ID 1610-00-78 SUMMARY		6

ABANDONING MANHOLES

CATEGORY	STATION	204.0250 EACH
0010	1022+24	1
PROJECT ID 1610-00-78 SUMMARY		0

CONNECT TO EXISTING SANITARY

CATEGORY	STATION	OFFSET	SPV.0060.15 EACH	NOTES
0010	80+82	7.1' RT	1	8" PVC
0010	1002+32	39.5' RT	1	12" PVC
0010	1002+36	41.7' LT	1	12" PVC
0010	1010+95	31.7' RT	1	8" PVC
0010	1010+98	26.0' LT	1	8" PVC
0010	1015+01	32.5' RT	1	12" PVC
0010	1015+02	59.2' LT	1	12" PVC
0010	1017+43	42.2' RT	1	8" PVC

SANITARY LATERAL PVC 6-INCH

CATEGORY	STATION	OFFSET	SPV.0090.14 LF
0010	69+30	6.3' RT - 22.4' RT	16
0010	81+95	6.1' RT - 22.3' RT	16
0010	83+58	1.5' RT - 24.3' RT	23
0010	1017+62	0.5' RT - 25.8' LT	26
0010	1019+60	1.1' LT - 25.8' LT	25
0010	1019+61	1.1' LT - 24.5' RT	26
0010	1020+67	3.1' LT - 26.8' RT	24
0010	1021+09	5.4' LT - 25.9' RT	32
0010	1021+75	5.9' LT - 26.1' LT	21
0010	1022+45	5.9' LT - 39.3' RT	42
0010	1023+00	5.5' LT - 26.1' LT	21
0010	1023+99	5.5' LT - 25.5' LT	20
0010	1024+81	5.5' LT - 23.8' LT	18
PROJECT ID 1610-00-78 SUMMARY			310

TRACER WIRE ACCESS BOX

CATEGORY	STATION	OFFSET	SPV.0060.19 EACH
0010	69+30	22.4' RT	1
0010	81+95	22.3' RT	1
0010	83+58	24.3' RT	1
0010	1017+62	25.8' LT	1
0010	1019+60	25.8' LT	1
0010	1019+61	24.5' RT	1
0010	1020+67	26.8' RT	1
0010	1021+09	25.9' RT	1
0010	1021+75	26.1' LT	1
0010	1022+45	39.3' RT	1
0010	1023+00	26.1' LT	1
0010	1023+99	25.5' LT	1
0010	1024+81	23.8' LT	1
PROJECT ID 1610-00-78 SUMMARY			13

WYE 8 X 6-INCH

CATEGORY	STATION	OFFSET	SPV.0060.17 EACH
0010	69+30	6.3' RT	1
0010	81+95	6.1' RT	1
0010	83+58	1.5' RT	1
0010	1017+62	0.5' RT	1
0010	1019+60	1.1' LT	1
0010	1019+61	1.1' LT	1
0010	1020+67	3.1' LT	1
0010	1021+09	5.4' LT	1
0010	1021+75	5.9' LT	1
0010	1022+45	5.9' LT	1
0010	1023+00	5.5' LT	1
0010	1023+99	5.5' LT	1
0010	1024+81	5.5' LT	1
PROJECT ID 1610-00-78 SUMMARY			13

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REMOVALS

CATEGORY	STATION	TO	STATION	LOCATION	*204.0110 REMOVING ASPHALTIC SURFACE SY	*690.0150 SAWING ASPHALT LF
0010	1026+25	-	1027+30	LT	1002	107
0010	1029+10	-	1029+60	LT	-	20
0010	1031+05	-	1031+90	LT	-	41
0010	1009+25	-	1009+40	LT	-	15
0010	69+00	-	71+10	TYLER	545	20
0010	81+81	-	84+50	LAYMAN	905	85
0010	71+06	-			-	12
0010	1015+00	-	1019+00	STAGE 1A	-	485
0010	1014+50	-	1015+50	STAGE 1B	-	110
	PROJECT ID 1610-00-78 TOTALS				2452	895

ASPHALT AND BASE AGGREGATE

CATEGORY	STATION	TO	STATION	LOCATION	*305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	*465.0105 ASPHALTIC SURFACE TON
0010	69+00	-	71+06	TYLER	350	90
0010	69+75	-	70+00	RT	-	4
0010	70+41	-	70+70	LT	-	7
0010	81+81	-	84+78	LAYMAN	551	150
0010	81+92	-	82+14	LT	-	6
0010	1026+25	-	1027+30	LT	70	26
0010	1027+40	-	1027+85	LT	20	3
0010	1029+10	-	1029+60	LT	40	15
0010	1031+05	-	1031+90	LT	116	45
	PROJECT ID 1610-00-78 TOTALS				1147	346

RESTORATION

CATEGORY	STATION	TO	STATION	LOCATION	625.0500 SALVAGED TOPSOIL SY	*627.0200 MULCHING SY	629.0205 FERTILIZER TYPE A CWT	*630.0140 SEEDING MIXTURE NO. 40 LB
0010	69+50	-	71+06	LT	36	36	0.02	1
0010	69+50	-	71+06	RT	164	164	0.10	3
0010	1009+50	-	1009+75	LT	35	35	0.02	1
0010	81+81	-	84+78	LT	413	413	0.26	7
0010	81+81	-	84+78	RT	224	224	0.14	4
0010	1026+25	-	1032+00	LT	848	848	0.53	15
0010	1027+25	-	1027+55		-	58	0.04	1
0010	1027+75	-	1029+25		-	412	0.26	7
0010	1029+50	-	1031+40		-	666	0.42	12
	PROJECT ID 1610-00-78 TOTALS				1720	2856	1.8	51

CONCRETE

CATEGORY	STATION	TO	STATION	LOCATION	*416.0160 CONCRETE DRIVEWAY 6-INCH SY	*601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	*602.0405 CONCRETE SIDEWALK 4-INCH SF
0010	69+50	-	71+06	LT	-	156	-
0010	69+50	-	71+06	RT	-	156	687
0010	69+75	-	70+00	RT	19	-	-
0010	81+81	-	84+78	RT	-	248	-
0010	81+81	-	84+78	LT	-	312	-
0010	83+75			LT	-	-	17
	PROJECT ID 1610-00-78 TOTALS				19	872	704

CONCRETE

CATEGORY	STATION	LOCATION	602.15 CONCRETE STEPS SF	513.2001 RAILING PIPE LF
0010	83+75	LT	38	5
PROJECT ID 1610-00-78 TOTALS			38	5

* ADDITONAL QUANTITIES SHOWN ELSEWHERE IN THE PLANS

3

PROJECT NO: 1610-00-78	HWY: STH 13	COUNTY: ASHLAND	MISCELLANEOUS QUANTITIES	SHEET 114	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\030203-MQ MELLEN.DWG
LAYOUT NAME - 05

PLOT DATE : 10/18/2022 2:39 PM PLOT BY : AYRES PLOT NAME : PLOT SCALE : 1" = 1'

WISDOT/CADDS SHEET 42

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
TRANSPORTATION PROJECT PLAT TITLE SHEET
1610-00-26
MELLEN-ASHLAND
JEFFERSON AVE TO GOLF COURSE ROAD
STH-13
ASHLAND



CONVENTIONAL SYMBOLS

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

SECTION CORNER SYMBOL
SECTION CORNER MONUMENT
GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
SIGN — OFF-PREMISE SIGN
R/W MONUMENT (TO BE SET)
NON-MONUMENTED R/W POINT
FOUND IRON PIN (1-INCH UNLESS NOTED) IP

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

ACCESS RESTRICTED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)

PARCEL NUMBER (25) — UTILITY NUMBER (40)
PARALLEL OFFSETS

CONVENTIONAL ABBREVIATIONS

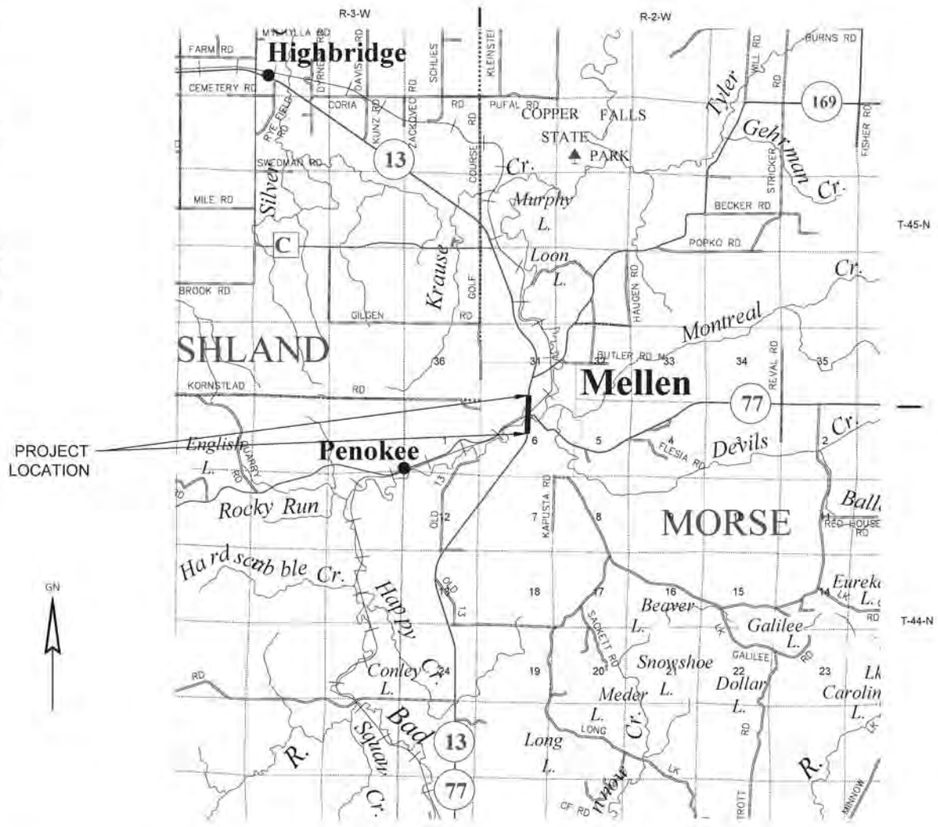
ACCESS RIGHTS	AR	POINT OF INTERSECTION	PI
ACRES	AC	PROPERTY LINE	PL
AHEAD	AH	RECORDED AS	(100')
ALUMINUM	ALUM	REEL / IMAGE	R/I
AND OTHERS	ET AL	REFERENCE LINE	R/L
BACK	BK	REMAINING	REM
BLOCK	BLK	RESTRICTIVE DEVELOPMENT EASEMENT	RDE
CENTERLINE	C/L	RIGHT	RT
CERTIFIED SURVEY MAP	CSM	RIGHT OF WAY	R/W
CONCRETE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

CURVE DATA

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

CONVENTIONAL UTILITY SYMBOLS

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



LAYOUT
SCALE 0 1MI

THE NOTES,CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT FOR PROJECT 1610-00-26.

NOTES:

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

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

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

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

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

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

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHTS TO MAKE OR CONSTRUCT IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

AN EASEMENT FOR HIGHWAY PURPOSES (HE), AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE.

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

FOR CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN SPOONER.

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

INFORMATION FOR THE BASIS OF EXISTING RIGHT-OF-WAY POINTS OF REFERENCE AND ACCESS CONTROL ARE LISTED ON THE TPP DETAIL PAGES.

PROJECT NUMBER 1610-00-26 - 4.01
SHEET 2 OF 2

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\RW\16100026_0401.DWG
PLOT DATE : 7/13/2021 10:29 AM PLOT BY : BADTKE, CHRISTOPHER PLOT NAME : _____

1610-00-26-4.01

TRANSPORTATION PROJECT PLAT NO: 1610-00-26-4.01

THAT PART OF LOTS 2, 3, 6, 10, 11, AND 12 OF BLOCK A OF BREEN'S ADDITION, AND THAT PART OF LOTS 1 AND 28 OF UNION TANNING COMPANY, ALL BEING IN THE SOUTHWEST ¼ OF THE NORTHEAST ¼ AND THAT PART OF THE SOUTHWEST ¼ OF THE NORTHEAST ¼ OF SECTION 6, TOWNSHIP 44 NORTH, RANGE 2 WEST, CITY OF MELLEN, ASHLAND COUNTY, WISCONSIN.

RELOCATION ORDER STH 13 MELLEN-ASHLAND, JEFFERSON AVE TO GOLF COURSE ROAD - ASHLAND COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

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

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

DOCUMENT NO **355756**
Received for Record
at 12:25 PM duly recorded in
Vol. TPP Envelope **1668**
of Transportation Project Plats
July 19 2021
Pages: 2 Fee Amount: $25.00
JULIE M GLEESON
REGISTER OF DEEDS
ASHLAND COUNTY, WI
This document has been electronically recorded

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1610-00-26-4.01
SHEET 1 OF 2

SEE TPP 1610-00-26-4.02

S89°22'01"E 33.13' 103 TO R/L
S89°22'01"E 32.88' R/L TO 104

GN

SCALE, FEET 0 50 100

CITY OF MELLEN

SW-NE

SIXTEENTH LINE

LOT 2, LOT 3, LOT 4, LOT 5, LOT 6, LOT 7, LOT 8, LOT 9, LOT 10, LOT 11, LOT 12, LOT 13, LOT 14

BREEN'S ADDITION BLOCK A

BREEN'S ADDITION BLOCK D

BREEN'S ADDITION BLOCK E

LOT 1, LOT 2, LOT 3, LOT 4, LOT 5, LOT 6

LOT 27, LOT 28, LOT 29

UNION TANNING COMPANY

STH 13 MAIN STREET

FAYETTE AVENUE

HERBERT STREET

WASHINGTON AVENUE

JEFFERSON AVENUE

EXISTING R/W

P.I. STA = 1003+46.73
Y = 224806.728
X = 557307.103
Δ = 00°05'19" LT

R/L = N01°13'53"E

R/L = N01°23'12"E

P.I. STA = 994+70.71
Y = 223902.920
X = 557285.224
Δ = 35°10'30" LT
D = 04°05'33"
T = 443.77'
L = 859.49'
R = 1400.00'
PC STA = 990+26.94
PT STA = 998+86.43
DB = N36° 33' 42"E

SUBCURVE 1
STA 995+05.08 TO 998+86.43
L = 381.35'
R = 1400.00'
LCH = 380.17'
LCB = N 09°11'25" E

TPP 1610-08-76

PT: 998+86.43

N88°36'48"W 33.10' R/L TO 100

N88°36'48"W 32.90' 108 TO R/L

FOUND IP 1008 N01°18'54"E 0.68' OF PNT. 100

3/4" REBAR

1/4" REBAR

BLDG

P.L.

G

SHEET LOCATION

LOCATION COMPUTED FROM REF. TIES PER MON. RECORD BY DAVID CARLSON DATED 2/14/2007
Y = 223,980.740
X = 556,591.715

T 44 N, R 2 W, 6

QUARTER LINE

N89°09'24"W 643.60' R/L TO MON.

N89°09'24"W 55.29' TRAV. PNT. TO R/L

N89°09'24"W 1972.57' MON. TO TRAV. PNT.

N89°09'24"W 2671.46' MON. TO MON.

995+05.08

N00°50'36"E 387.33' TRAV. PNT. TO R/L.

FOUND CHISLED X
Y = 223,941.422
X = 559,262.889

T 44 N, R 2 W, 5 6

STATION & OFFSET TABLE			STATION & OFFSET TABLE		
POINT	STATION	OFFSET	POINT	STATION	OFFSET
T150	1003+40.08	32.90'LT	T164	1008+10.00	33.11'LT
T151	1003+48.79	54.61'LT	T165	1008+10.00	42.00'LT
T152	1003+66.24	54.80'LT	T166	1008+35.64	42.00'LT
T153	1003+72.00	32.92'LT	T167	1008+35.65	33.12'LT
T154	1004+22.75	32.94'LT	T168	1008+46.74	43.00'RT
T155	1004+30.00	46.00'LT	T169	1006+63.00	43.00'RT
T156	1004+58.00	46.00'LT	T170	1006+63.00	48.00'RT
T157	1004+64.00	32.96'LT	T171	1005+25.00	48.00'RT
T158	1006+37.00	33.04'LT	T172	1005+25.00	33.01'RT
T159	1006+37.00	40.00'LT	T173	1000+45.00	32.72'RT
T160	1006+40.00	40.00'LT	T174	1000+45.00	52.00'RT
T161	1006+40.00	43.50'LT	T175	1000+08.00	52.00'RT
T162	1006+56.00	43.50'LT	T176	1000+08.00	32.76'RT
T163	1006+56.00	33.04'LT			

FOUND MONUMENTS STATION & OFFSET TABLE		
POINT	STATION	OFFSET
1000	994+73.27	101.53'LT
1001	994+38.23	196.57'LT
1002	995+04.23	121.21'LT
1003	997+13.96	159.48'LT
1004	997+31.28	34.56'LT
1005	998+30.26	33.89'LT
1006	998+24.38	133.67'LT
1007	998+96.47	135.70'LT
1008	998+98.27	33.06'LT
1009	999+45.86	32.21'LT
1010	999+93.62	33.11'LT
1011	1008+22.82	33.11'LT
1012	999+93.69	32.79'RT
1013	998+43.87	33.60'RT
1014	998+99.23	115.44'RT
1015	998+60.69	143.98'RT
1016	997+84.90	36.85'RT

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
100-101	N01°18'54"E	289.16'
101-102	N02°01'19"E	66.01'
102-103	N01°16'26"E	593.04'
104-105	S01°16'26"W	566.08'
105-106	S69°42'47"E	12.65'
106-107	S11°38'02"W	71.20'
107-108	S01°18'54"W	308.82'

STATION & OFFSET TABLE		
POINT	STATION	OFFSET
100	998+97.61	33.10'LT
101	1001+86.77	33.46'LT
102	1002+52.77	32.73'LT
103	1008+45.86	33.12'LT
104	1008+46.63	32.88'RT
105	1002+80.60	33.22'RT
106	1002+76.50	45.18'RT
107	1002+06.43	32.52'RT
108	998+97.61	32.90'RT

BASIS OF R/W (OFFSETS = HISTORICAL R/W WIDTHS)		
POINT	STATION	OFFSETS
1002	995+04.23	121.26' LT
1003	997+13.96	159.35' LT
1004	997+31.28	34.38' LT
1005	998+30.26	33.73' LT
1013	998+43.87	33.62' RT
1016	997+84.90	36.99' RT

UTILITY INTERESTS REQUIRED

UTILITY NO.	OWNER(S)	INTEREST REQUIRED
51	XCEL ENERGY - GAS	RELEASE OF RIGHTS

UTILITY EASEMENTS

UTILITY NO.	OWNER(S)	EASEMENTS
51	XCEL ENERGY - GAS	NO EASEMENT OF RECORD - PARCELS 2, 4, & 5

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

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

FOR CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN SPOONER.

ALL EXISTING IRON PINS ARE CAPPED 1.25" IRON PIPES UNLESS OTHERWISE NOTED.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
STH 13 / MAIN STREET: PREVIOUS PROJECT NO. TPP 1610-08-76, PLAT OF BREEN'S ADDITION, UNION TANNING COMPANY.
FAYETTE AVENUE: UNION TANNING COMPANY.
HERBERT STREET: UNION TANNING COMPANY.
WASHINGTON AVENUE: PLAT OF BREEN'S ADDITION.
JEFFERSON AVENUE: PLAT OF BREEN'S ADDITION.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2.

SCHEDULE OF LANDS AND INTERESTS REQUIRED

PARCEL NO.	OWNER(S)	INTEREST REQUIRED	R/W (ACRES) NEW	EXISTING	TOTAL	TLE
2	CHRISTOPHER M. AND PAMELA A. SMITH	TLE	------	------	------	0.006
3	DEANNA J. JAEGER	TLE	------	------	------	0.005
4	MAGGIE MELBY	TLE	------	------	------	0.004
5	JOHN MICHAEL BROWN	TLE	------	------	------	0.012
6	PETER AND ALISON ELLIAS	TLE	------	------	------	0.006
7	SCHOOL DISTRICT OF MELLEN	FEE & TLE	------	0.275	0.275	0.090
8	CITY OF MELLEN	FEE	0.002	------	0.002	------
9	GARY L. RAY AND ANNETTE M. KOECK-RAY	TLE	------	------	------	0.016

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

PURPOSE OF ALL THE TLES IS FOR GRADING, UNLESS NOTED.

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

CHRISTOPHER R. BADTKE — 06/09/2021
REGISTRATION NUMBER: S-3150 — DATE

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

AYRES

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

HEATHER L. DRESEL — 07/15/2021
HEATHER L. DRESEL — DATE

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1610-00-26-4.01

PLOT SCALE: ##########
PLOT NAME:
PLOT BY: Badtke, Christopher
PLOT DATE: 7/15/2021 10:56 AM
PLOT DATE:
PLOT DATE:
FILE NAME: I:\41\41V\41V.1083S STH 13 MELLEN\C3D\RW\1610002S_0401.DWG
APPRAISAL PLAT DATE: 06/09/2021

TRANSPORTATION PROJECT PLAT NO: 1610-00-26-4.02 AMENDMENT NO. 2

AMENDS UTILITY NUMBER 50 TO TRANSPORTATION PROJECT PLAT NO: 1610-00-26-4.02 AMENDMENT NO. 1 RECORDED AS DOCUMENT NUMBER 356290.
AMENDS PARCELS 7 AND 8, AND ADDS PARCEL 10 TO TRANSPORTATION PROJECT PLAT NO: 1610-00-26-4.02 RECORDED AS DOCUMENT NUMBER 356032.

THAT PART OF LOT 1 OF BLOCK A OF BREEN'S ADDITION, LOTS 65 AND 66 OF BLOCK F OF VILLAGE OF IRON CITY, ALL BEING IN THE FRACTIONAL NORTHWEST ¼ OF THE NORTHEAST ¼ AND THAT PART OF THE FRACTIONAL NORTHWEST ¼ OF THE NORTHEAST ¼ OF SECTION 6, TOWNSHIP 44 NORTH, RANGE 2 WEST, CITY OF MELLEN, ASHLAND COUNTY, WISCONSIN.

RELOCATION ORDER STH 13 MELLEN-ASHLAND, JEFFERSON AVE TO GOLF COURSE ROAD - ASHLAND COUNTY

DOCUMENT NO. **359280**
Received for Record
at: 2:07 PM duly recorded in
Vol. TPP Envelope **1690**
of Transportation Project Plats
June 30 2022
Pages: 1 Fee Amount: $25.00
JULIE M GLEESON
REGISTER OF DEEDS
ASHLAND COUNTY, WI
This document has been electronically recorded

117

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1610-00-26-4.02
AMENDMENT NO. 2
SHEET 1 OF 1

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

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

SCHEDULE OF LANDS AND INTERESTS REQUIRED

PARCEL NO.	OWNER(S)	INTERESTS REQUIRED	R/W (ACRES) NEW	EXISTING	TOTAL	HE	PLE	TLE
7	SCHOOL DISTRICT OF MELLEN	FEE & TLE	0.028	0.108	0.136	------	------	0.037
8	CITY OF MELLEN	PLE & TLE	------	------	------	------	0.006	0.071
10	DUANE G. KASENO AND KARLA L. KASENO	FEE	0.011	------	0.011	------	------	------
11	FOX VALLEY AND LAKE SUPERIOR SYSTEM	HE & TLE	------	------	------	0.046	------	0.126
12	MIDLAND SERVICES, INC.	FEE & TLE	0.011	------	0.011	------	------	0.020

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

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
200-201	N01°16'26"E	107.40'
201-202	N88°42'07"W	20.03'
202-203	N01°17'53"E	19.91'
204-205	N01°01'14"E	15.00'
205-206	N01°01'14"E	17.03'
206-207	N01°01'14"E	83.50'
207-208	N01°01'14"E	180.34'
208-209	S47°22'31"W	3.18'
209-210	N02°02'38"E	139.19'
210-211	N77°46'46"W	18.63'
211-212	N38°45'29"W	27.80'
215-216	S02°05'38"W	66.00'
216-217	S02°02'38"W	100.02'
217-218	N47°22'31"E	1.59'
218-219	S01°01'14"W	11.10'
219-220	S13°23'08"E	136.69'
220-221	S86°51'44"E	73.39'
222-223	N86°51'44"W	109.07'
223-224	S01°01'14"W	132.10'
224-225	S88°58'46"E	23.66'
225-226	S01°01'14"W	15.39'
227-228	S01°18'20"W	11.19'
228-229	S67°54'40"W	40.31'
229-230	N88°42'07"W	10.17'
230-231	S01°16'26"W	101.37'

PLE COURSE TABLE		
COURSE	BEARING	DISTANCE
205-233	N88°58'46"W	15.00'
233-232	N01°17'53"E	17.11'
232-206	S88°42'07"E	14.92'
206-205	S01°01'14"W	17.03'

UTILITY INTERESTS REQUIRED

UTILITY NO.	OWNER(S)	INTEREST REQUIRED
50	CENTURYLINK	RELEASE OF RIGHTS
51	XCEL ENERGY - GAS	RELEASE OF RIGHTS
52	XCEL ENERGY - ELECTRIC	RELEASE OF RIGHTS

UTILITY EASEMENTS

UTILITY NO.	OWNER(S)	EASEMENTS
50	CENTURYLINK	NO EASEMENT OF RECORD - PARCEL 11
51	XCEL ENERGY - GAS	NO EASEMENT OF RECORD - PARCEL 11
52	XCEL ENERGY - ELECTRIC	NO EASEMENT OF RECORD - PARCELS 8 & 11

STATION & OFFSET TABLE		
POINT	STATION	OFFSET
T252	1010+24.00	47.37'LT
T253	1010+24.00	54.00'LT
T254	1010+35.00	54.00'LT
T255	1010+35.00	75.00'LT
T256	1010+90.00	75.00'LT
T257	1010+90.00	54.00'LT
T258	1012+25.00	54.00'LT
T259	1012+25.00	33.34'LT
T260	1013+63.00	35.32'LT
T261	1013+63.00	43.00'LT
T262	1014+23.00	43.00'LT
T263	1014+23.00	34.54'LT

STATION & OFFSET TABLE		
POINT	STATION	OFFSET
T264	1014+37.00	34.36'LT
T265	1014+40.00	53.50'LT
T266	1014+71.71	77.38'LT
T267	1013+73.39	32.24'RT
T268	1012+60.74	68.03'RT
T269	1012+69.51	105.36'RT
T270	1012+62.01	142.22'RT
T278	1009+00.00	43.00'RT
T279	1008+72.00	63.00'RT
T280	1008+57.00	63.00'RT
T281	1008+57.00	43.00'RT
T282	1008+46.74	43.00'RT

STATION & OFFSET TABLE		
POINT	STATION	OFFSET
200	1008+45.86	33.12'LT
201	1009+53.25	33.17'LT
202	1009+53.25	53.20'LT
203	1009+73.17	53.20'LT
204	1010+13.96	32.32'LT
205	1010+28.96	32.39'LT
206	1010+46.00	32.47'LT
207	1011+29.49	32.88'LT
208	1013+09.83	33.75'LT
209	1013+07.62	36.04'LT
210	1014+46.81	34.23'LT
211	1014+50.34	52.66'LT

STATION & OFFSET TABLE		
POINT	STATION	OFFSET
212	1014+71.62	70.41'LT
213	1015+37.91	70.44'LT
214	1015+38.04	33.33'LT
215	1015+38.28	32.67'RT
216	1014+72.01	32.10'RT
217	1013+72.00	30.80'RT
218	1013+73.10	31.94'RT
219	1013+62.00	32.00'RT
220	1012+29.78	66.65'RT
221	1012+27.42	140.00'RT
222	1011+77.63	132.89'RT
223	1011+80.84	32.88'RT

STATION & OFFSET TABLE		
POINT	STATION	OFFSET
224	1010+48.74	33.52'RT
225	1010+48.85	57.37'RT
226	1010+33.46	57.25'RT
227	1009+75.19	80.00'RT
228	1009+64.00	80.00'RT
229	1009+48.00	43.00'RT
230	1009+48.00	32.83'RT
231	1008+46.63	32.88'RT
232	1010+46.00	47.39'LT
233	1010+28.89	47.39'LT

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

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

FOR CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN SPOONER.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
STH 13 / MAIN STREET: PLAT OF BREEN'S ADDITION, PLAT OF BENNETT'S ADDITION, PLAT OF VILLAGE OF IRON CITY, PREVIOUS PROJECT NOS. 9260-03-21 AND 9250-01-00.
CTH GG: PLAT OF VILLAGE OF IRON CITY, PREVIOUS PROJECT NO. 8520-11-00.
STH 77 / LAKE DRIVE: PREVIOUS PROJECT NOS. 9260-03-21 AND 9250-01-00.

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, AS DOCUMENT NO. 355756 FOR ADDITIONAL INFORMATION.

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

CHRISTOPHER R. BADTKE
REGISTRATION NUMBER: S-3150
06/23/2022
DATE

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

HEATHER L. DRESEL
06/28/2022
DATE

LOCATION COMPUTED FROM REF. TIES PER MON. RECORD BY DAVID CARLSON DATED 2/14/2007
Y = 223,980.740
X = 556,591.715

FOUND CHISLED X
Y = 223,941.422
X = 559,262.889

SEE TPP 1610-00-26-4.03

SEE TPP 1610-00-26-4.01

PLOT SCALE: ##########
PLOT NAME: Badtke, Christopher
PLOT BY:
PLOT DATE: 6/28/2022 3:36 PM
PLOT DATE:
PLOT DATE:
FILE NAME: I:\V41\410835 STH 13 MELLEN\C30\RW\161000026_0402_AMEND 2.DWG
APPRAISAL PLAT DATE: 06/23/2022

1610-00-26-4.02 AMENDMENT NO. 2

TRANSPORTATION PROJECT PLAT NO: 1610-00-26-4.03

THAT PART OF LOT 3 OF BLOCK A OF VILLAGE OF IRON CITY, AND THAT PART OF LOTS 22 AND 26 OF BLOCK D OF VILLAGE OF IRON CITY, AND THAT PART OF LOT 32 OF BLOCK E OF VILLAGE OF IRON CITY, ALL BEING IN THE FRACTIONAL NORTHWEST ¼ OF THE NORTHEAST ¾ OF SECTION 6, TOWNSHIP 44 NORTH, RANGE 2 WEST, AND THE SOUTHWEST ¼ OF THE SOUTHEAST ¼ OF SECTION 31, TOWNSHIP 45 NORTH, RANGE 2 WEST, CITY OF MELLEN, ASHLAND COUNTY, WISCONSIN.

RELOCATION ORDER STH 13 MELLEN-ASHLAND, JEFFERSON AVE TO GOLF COURSE ROAD - ASHLAND COUNTY

DOCUMENT NO 356033
Received for Record
at 9:37 AM duly recorded in
Vol. TPP Envelope 168A
of Transportation Project Plats
August 10 2021
Pages: 1 Fee Amount: $25.00
JULIE M GLEESON
REGISTER OF DEEDS
ASHLAND COUNTY, WI
This document has been electronically recorded

118

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1610-00-26-4.03
SHEET 1 OF 1

SEE TPP 1610-00-26-4.04

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE; THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

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

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

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

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

FOR CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN SPOONER.

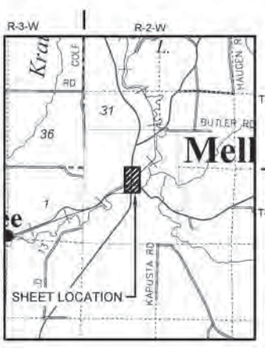
EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
STH 13 / MAIN STREET: PLAT OF VILLAGE OF IRON CITY.
BENNETT AVE: PLAT OF VILLAGE OF IRON CITY.
TYLER AVE: PLAT OF VILLAGE OF IRON CITY.
CTH GG: PREVIOUS PROJECT NO. 8520-11-00.

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, AS DOCUMENT NO. 355756 FOR ADDITIONAL INFORMATION.

STATION & OFFSET TABLE		
POINT	STATION	OFFSET
T350	1015+93.00	33.29'LT
T351	1015+93.00	53.00'LT
T352	1016+34.00	53.00'LT
T353	1016+34.00	33.26'LT
T354	1019+65.00	32.84'LT
T355	1019+65.00	54.67'LT
T356	1020+00.00	54.67'LT
T357	1020+00.00	32.85'LT
T358	1021+75.00	32.03'LT
T359	1021+75.00	37.00'LT
T360	1022+03.08	37.00'LT
T361	1016+74.50	32.76'RT
T362	1016+74.50	45.00'RT
T363	1016+49.50	45.00'RT
T364	1016+49.50	32.75'RT

STATION & OFFSET TABLE		
POINT	STATION	OFFSET
300	1015+38.04	33.33'LT
301	1018+35.35	33.13'LT
302	1019+01.35	32.82'LT
303	1021+97.96	31.65'LT
304	1022+03.00	31.56'LT
305	1022+02.05	34.43'RT
306	1021+98.32	34.37'RT
307	1019+01.42	33.16'RT
308	1018+35.42	32.87'RT
309	1017+51.38	32.82'RT
310	1017+36.38	32.81'RT
311	1015+38.28	32.67'RT

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
300-301	N01°49'16"E	297.31'
301-302	N02°02'44"E	66.00'
302-303	N01°45'55"E	296.05'
303-304	N01°45'55"E	5.05'
305-306	S01°45'55"W	3.73'
306-307	S01°45'55"W	297.48'
307-308	S02°02'44"W	66.00'
308-309	S01°49'16"W	84.04'
310-311	S01°49'16"W	198.09'



SCHEDULE OF LANDS AND INTERESTS REQUIRED

PARCEL NO.	OWNER(S)	INTEREST REQUIRED	R/W (ACRES) NEW	EXISTING	TOTAL	TLE
13	MELLEN COMMUNITY CREDIT UNION	TLE	------	------	------	0.019
14	DENNIS J. AND LEANN M. RUDIE	TLE	------	------	------	0.018
16	DIANNE C. MATTSON	TLE	------	------	------	0.003
17	RYAN D. AND GINA S. BROENIMAN	TLE	------	------	------	0.007

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

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

CHRISTOPHER R. BADTKE — 08/04/2021
REGISTRATION NUMBER: S-3150 — DATE

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

HEATHER L. DRESEL — 08/09/2021
DATE

AYRES

SCALE, FEET: 0 25 50

1610-00-26-4.03
PLOT SCALE: ##########
PLOT NAME:
PLOT BY: Badtke, Christopher
PLOT DATE: 8/9/2021 1:04 PM
PLOT DATE:
PLOT DATE:
FILE NAME: I:\41\41083\STH 13 MELLEN\C3D\RW\16100026_0403.DWG
APPRAISAL PLAT DATE: 06/09/2021

TRANSPORTATION PROJECT PLAT NO: 1610-00-26-4.04

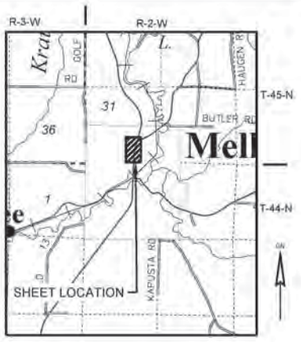
THAT PART OF LOTS 1 AND 12 OF BLOCK 2, AND THAT PART OF LOT 7 BLOCK 4 OF TYLER AND LAYMAN'S ADDITION TO THE VILLAGE OF IRON CITY, ALL BEING IN THE SOUTHWEST ¼ OF THE SOUTHEAST ¼, AND THAT PART OF THE SOUTHWEST ¼ OF THE SOUTHEAST ¼ OF SECTION 31, TOWNSHIP 45 NORTH, RANGE 2 WEST, CITY OF MELLEN, ASHLAND COUNTY, WISCONSIN.

RELOCATION ORDER STH 13 MELLEN-ASHLAND, JEFFERSON AVE TO GOLF COURSE ROAD - ASHLAND COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

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

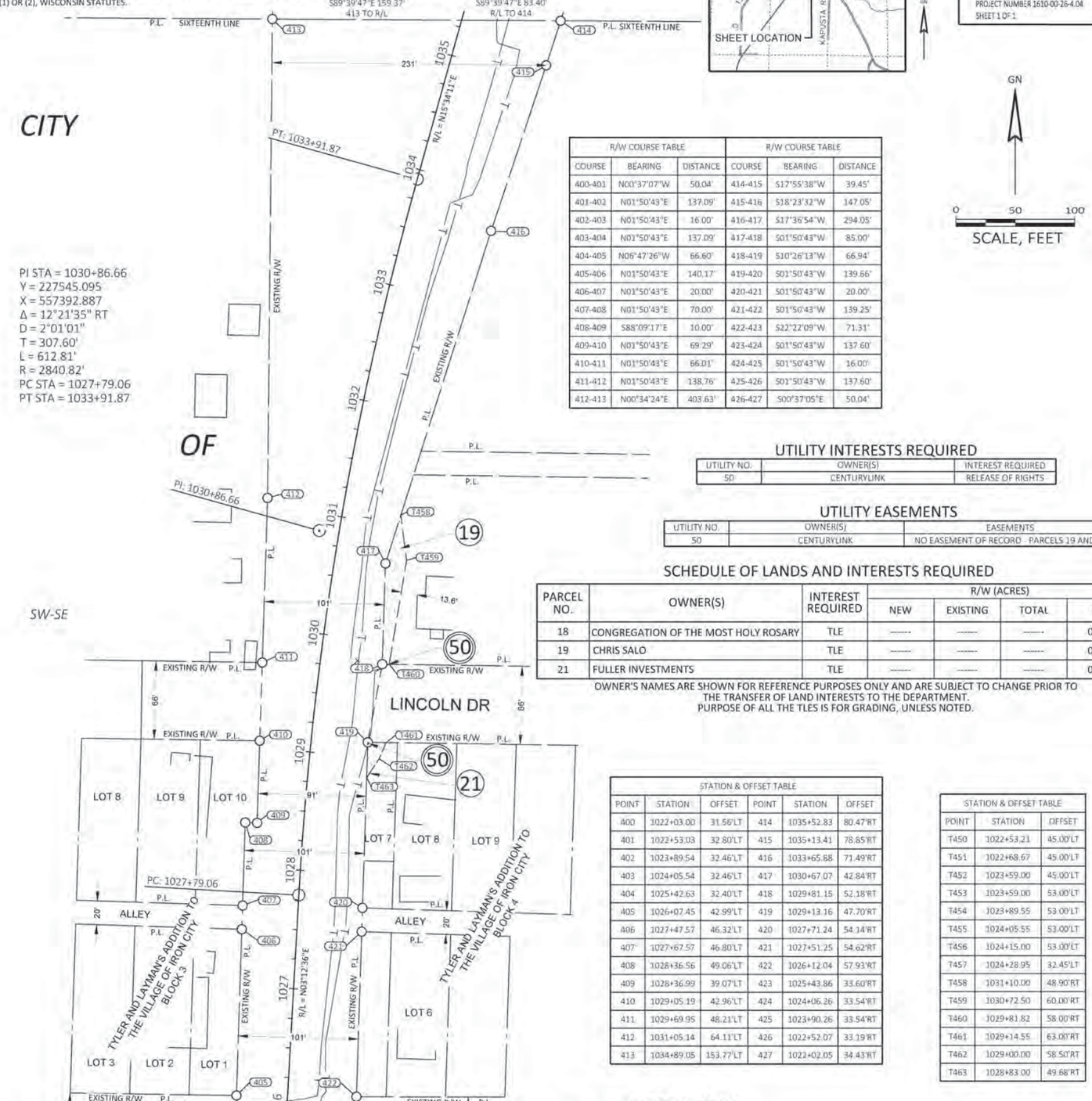
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE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



DOCUMENT NO **356034**
Received for Record
at 9:39 AM duly recorded in
Vol. TPP Envelope **1685**
of Transportation Project Plats
August 10 2021
Pages: 1 Fees Amount: $25.00
JULIE M GLEESON
REGISTER OF DEEDS
ASHLAND COUNTY, WI
This document has been electronically recorded

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1610-00-26-4.04
SHEET 1 OF 1

119



R/W COURSE TABLE			R/W COURSE TABLE		
COURSE	BEARING	DISTANCE	COURSE	BEARING	DISTANCE
400-401	N00°37'07"W	50.04'	414-415	S17°55'38"W	39.45'
401-402	N01°50'43"E	137.09'	415-416	S18°23'32"W	147.05'
402-403	N01°50'43"E	16.00'	416-417	S17°36'54"W	294.05'
403-404	N01°50'43"E	137.09'	417-418	S01°50'43"W	85.00'
404-405	N06°47'26"W	66.60'	418-419	S10°26'13"W	66.94'
405-406	N01°50'43"E	140.17'	419-420	S01°50'43"W	139.66'
406-407	N01°50'43"E	20.00'	420-421	S01°50'43"W	20.00'
407-408	N01°50'43"E	70.00'	421-422	S01°50'43"W	139.25'
408-409	S88°09'17"E	10.00'	422-423	S22°22'09"W	71.31'
409-410	N01°50'43"E	69.29'	423-424	S01°50'43"W	137.60'
410-411	N01°50'43"E	66.01'	424-425	S01°50'43"W	16.00'
411-412	N01°50'43"E	138.76'	425-426	S01°50'43"W	137.60'
412-413	N00°34'24"E	403.63'	426-427	S00°37'05"E	50.04'

UTILITY INTERESTS REQUIRED

UTILITY NO.	OWNER(S)	INTEREST REQUIRED
50	CENTURYLINK	RELEASE OF RIGHTS

UTILITY EASEMENTS

UTILITY NO.	OWNER(S)	EASEMENTS
50	CENTURYLINK	NO EASEMENT OF RECORD - PARCELS 19 AND 21

SCHEDULE OF LANDS AND INTERESTS REQUIRED

PARCEL NO.	OWNER(S)	INTEREST REQUIRED	R/W (ACRES) NEW	EXISTING	TOTAL	TLE
18	CONGREGATION OF THE MOST HOLY ROSARY	TLE	------	------	------	0.053
19	CHRIS SALO	TLE	------	------	------	0.031
21	FULLER INVESTMENTS	TLE	------	------	------	0.006

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

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	POINT	STATION	OFFSET
400	1022+03.00	31.56'LT	414	1035+52.83	80.47'RT
401	1022+53.03	32.80'LT	415	1035+13.41	78.85'RT
402	1023+89.54	32.46'LT	416	1033+65.88	71.49'RT
403	1024+05.54	32.46'LT	417	1030+67.07	42.84'RT
404	1025+42.63	32.40'LT	418	1029+81.15	52.18'RT
405	1026+07.45	42.99'LT	419	1029+13.16	47.70'RT
406	1027+47.57	46.32'LT	420	1027+71.24	54.14'RT
407	1027+67.57	46.80'LT	421	1027+51.25	54.62'RT
408	1028+36.56	49.06'LT	422	1026+12.04	57.93'RT
409	1028+36.99	39.07'LT	423	1025+43.86	33.60'RT
410	1029+05.19	42.96'LT	424	1024+06.26	33.54'RT
411	1029+69.95	48.21'LT	425	1023+90.26	33.54'RT
412	1031+05.14	64.11'LT	426	1022+52.07	33.19'RT
413	1034+89.05	153.77'LT	427	1022+02.05	34.43'RT

STATION & OFFSET TABLE		
POINT	STATION	OFFSET
T450	1022+53.21	45.00'LT
T451	1022+68.67	45.00'LT
T452	1023+59.00	45.00'LT
T453	1023+59.00	53.00'LT
T454	1023+89.55	53.00'LT
T455	1024+05.55	53.00'LT
T456	1024+15.00	53.00'LT
T457	1024+28.95	32.45'LT
T458	1031+10.00	48.90'RT
T459	1030+72.50	60.00'RT
T460	1029+81.82	58.00'RT
T461	1029+14.55	63.00'RT
T462	1029+00.00	58.50'RT
T463	1028+83.00	49.68'RT

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

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

FOR CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN SPOONER.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
STH 13 / MAIN STREET: TYLER AND LAYMAN'S ADDITION TO THE VILLAGE OF IRON CITY, DIVISION JOB NO. 8335.
TYLER AVENUE: TYLER AND LAYMAN'S ADDITION TO THE VILLAGE OF IRON CITY.
LAYMAN DRIVE: TYLER AND LAYMAN'S ADDITION TO THE VILLAGE OF IRON CITY.
LINCOLN DRIVE: TYLER AND LAYMAN'S ADDITION TO THE VILLAGE OF IRON CITY.

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, AS DOCUMENT NO. 355756 FOR ADDITIONAL INFORMATION.

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

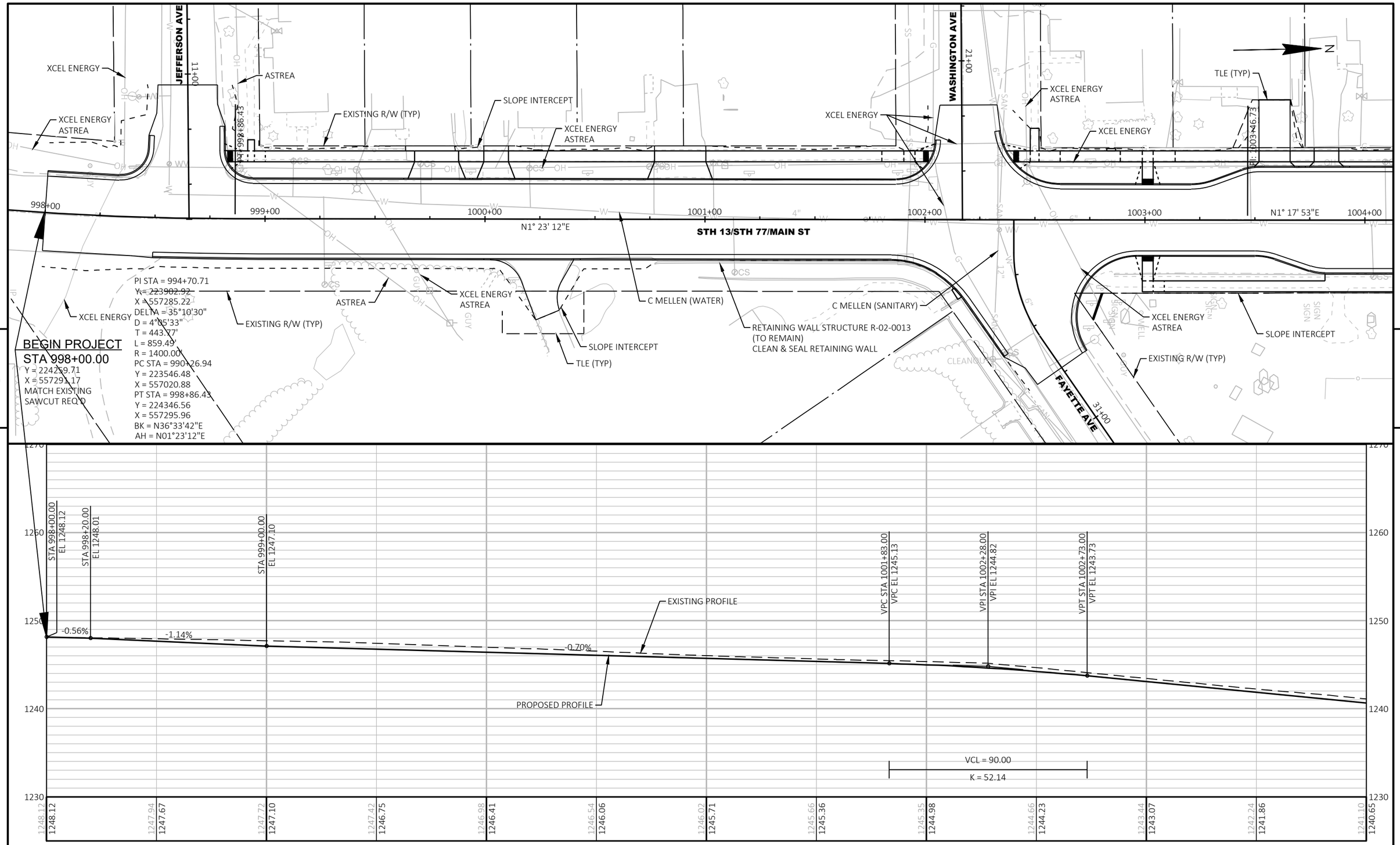
CHRISTOPHER R. BADTKE — 08/04/2021
REGISTRATION NUMBER: S-3150 — DATE

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

HEATHER L. DRESEL — 08/09/2021
DATE

AYRES

TE1610-00-26-4.04
PLOT SCALE: ##########
PLOT NAME: Badtke, Christopher
PLOT BY: 8/9/2021 1:14 PM
PLOT DATE:
PLOT DATE:
FILE NAME: I:\V41\41083\S STH 13 MELLEN\C30\RW\1610026_0404.DWG
APPRAISAL PLAT DATE: 06/09/2021



PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	PLAN AND PROFILE: STH 13	SHEET 120 E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\050101-PP.DWG
LAYOUT NAME - 050101-pp

PLOT DATE : 7/25/2022 4:21 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
BM1	1009+55	33.1' LT, PK IN PPOL	1231.29
		Y = 225415.98 X = 557287.83	

TLE (TYP)
XCEL ENERGY
SLOPE INTERCEPT
EXISTING R/W (TYP)
ASTREA
XCEL ENERGY
CP#1
STA 1008+51.25
25.4' LT, 120D SPIKE
Y = 225311.70
X = 557293.19
BM#1
35051 - PK IN PPOL
N
1004+00
1005+00
1006+00
1007+00
1008+00
1009+00
1010+00
STH 13/STH 77/MAIN ST
N1° 17' 53"E
35004 120D SPIKE
C MELLEN (WATER)
EXISTING R/W (TYP)
SLOPE INTERCEPT
TLE (TYP)
BAD RIVER
STRUCTURE B-02-0074

5

5

STA 1005+75.00
EL 1236.41
VPC STA 1006+55.00
VPC EL 1235.27
VPI STA 1007+00.00
VPI EL 1234.63
VPT STA 1007+45.00
VPT EL 1233.16
STA 1007+90.00
EL 1231.69
VCL = 225.00
K = 31.85
-2.42%
EXISTING PROFILE
-1.42%
PROPOSED PROFILE
-3.27%
-2.27%
VCL = 90.00
K = 48.57
VPC STA 1008+15.50
VPC EL 1231.11
VPI STA 1009+28.00
VPI EL 1228.56
REMOVING OLD STRUCTURE OVER WATERWAY WITH
MINIMAL DEBRIS STA 1010+00, STRUCTURE B-02-0033
SINGLE-SPAN CONCRETE FLAT SLAB BRIDGE
ON CONCRETE SILL-TYPE ABUTMENTS
48.0' CLEAR RDWY x 47.83' O.A.L.

STA 1010+00
STRUCTURE B-02-0074 REQ'D
TWO-SPAN CONCRETE FLAT SLAB BRIDGE
40.0' CLEAR RDWY x 72'-6" O.A.L.

1240
1230
1220
1210

1241.10 1240.65 | 1239.81 1239.44 | 1238.75 1238.23 | 1237.53 1237.01 | 1236.39 1236.05 | 1235.38 1235.34 | 1234.33 1234.43 | 1233.17 1233.00 | 1232.02 1231.46 | 1231.24 1230.51 | 1230.63 1230.31 | 1230.12 1230.90 | 1230.09 1232.27

1004+00
1005+00
1006+00
1007+00
1008+00
1009+00
1010+00

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	PLAN AND PROFILE: STH 13	SHEET 121	E

CP#2
STA 1010+36.13
40.5' LT, 120D SPIKE
Y = 225496.87
X = 557282.26

CP#4
STA 1011+63.07
33.7' LT, 120D SPIKE
Y = 225623.63
X = 557291.96

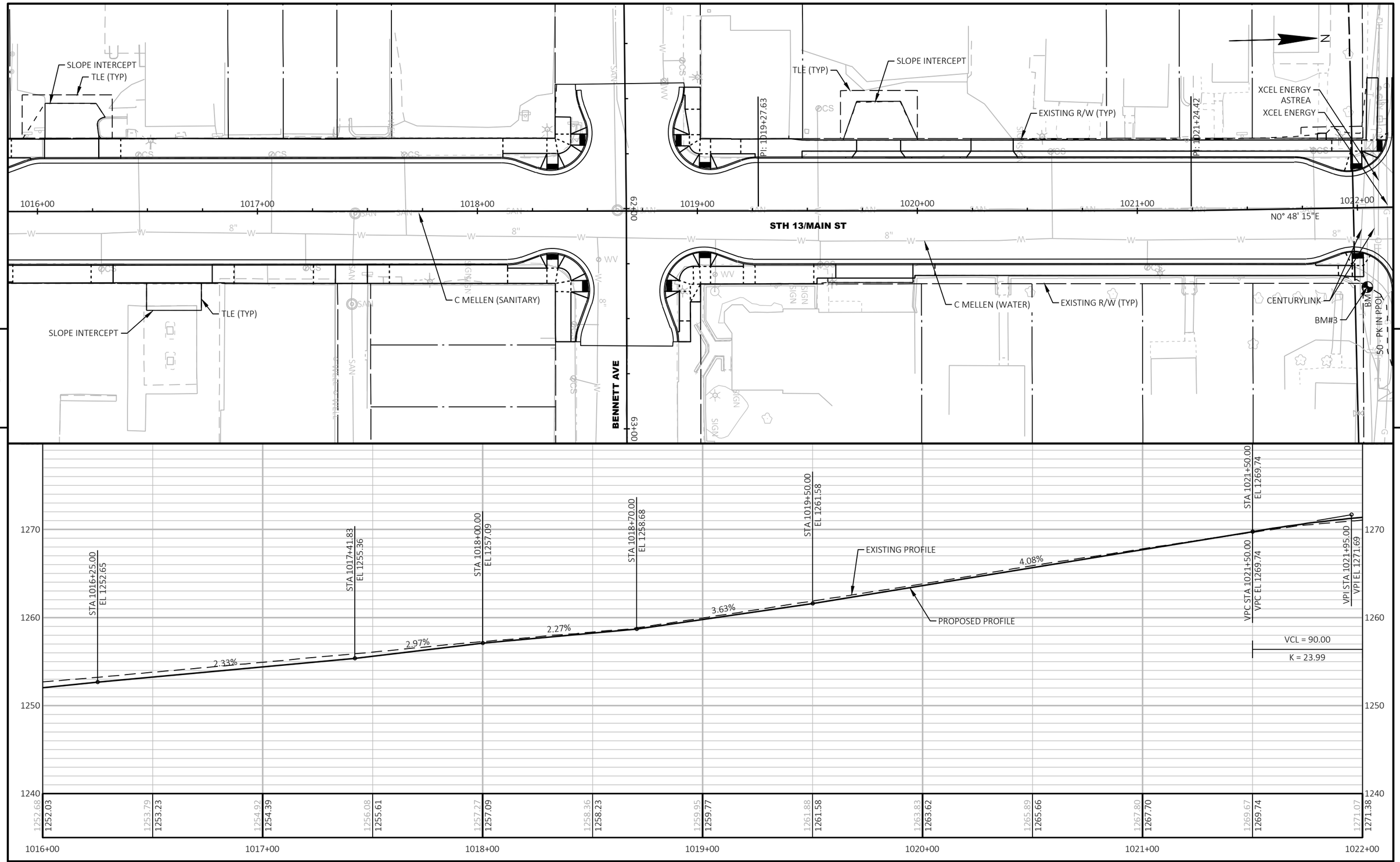
ASTREA
XCEL ENERGY
TLE (TYP)
SLOPE INTERCEPT
CENTURYLINK
EXISTING R/W (TYP)
FEE (TYP)
CTH GG
PI: 1014+96.77
S24°00
35002 - 120D SPIKE
CP
3500 120D SPIKE
1010+00
1011+00
1012+00
1013+00
1014+00
1015+00
1016+00
STH 13/STH 77/MAIN ST
N1° 17' 53"E
BP: 40+00.00
STH 13/MAIN ST
XCEL ENERGY
BM#2
35050
STRUCTURE
B-02-0074
BAD RIVER
C MELLEN (SANITARY)
35001 - 120D SPIKE
CP#3
STA 1010+53.86
47.6' RT, 120D SPIKE
Y = 225512.54
X = 557369.48
STH 77
41+00
HE (TYP)
C MELLEN (WATER)
EXISTING R/W (TYP)
FORCEMAIN ->

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
BM2	1010+31	23.7' RT, PK	1232.03
		Y = 225490.71 X = 557346.29	

VCL = 225.00
K = 31.85
VCL = 133.13
K = 38.44
VCL = 90.00
K = 12.48
VCL = 90.00
K = 15.60
PROPOSED PROFILE
EXISTING PROFILE
4.79%
1.33%
0.00%
3.00%
0.02%
1.02%
8.23%
2.46%
VPC STA 1010+88.57
VPC EL 1236.25
VPT STA 1010+40.50
VPT EL 1233.95
VPI STA 1011+55.14
VPI EL 1239.45
VPT STA 1012+21.71
VPT EL 1240.33
STA 1012+31.28
EL 1240.46
STA 1012+67.80
EL 1240.65
STA 1012+61.40
EL 1240.46
STA 1013+26.89
EL 1240.67
VPC STA 1013+27.00
VPC EL 1240.67
VPI STA 1013+72.00
VPI EL 1241.13
VPT STA 1014+17.00
VPT EL 1244.83
VPC STA 1014+18.73
VPC EL 1244.97
VPI STA 1014+63.73
VPI EL 1248.68
VPT STA 1015+08.73
VPT EL 1249.78

| | | |



5

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PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	PLAN AND PROFILE: STH 13	SHEET 123	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\050101-PP.DWG
LAYOUT NAME - 050104-pp

PLOT DATE : 7/25/2022 4:21 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
BM3	1022+04	36.3' RT, PK IN PPOL	1275.04
		Y = 226662.75 X = 557390.02	
BM4	1026+17	36.2' LT, PK IN PPOL	1269.70
		Y = 227077.77 X = 557330.42	

TYLER AVE

CP#6
STA 1022+44.42
79.3' LT, PK
Y = 226704.92
X = 557275.07

CP 1 - PK

CENTURYLINK

TLE (TYP)

XCEL ENERGY

SLOPE INTERCEPT

PI: 1022+68.67

71+00

C MELLEN (WATER)

EXISTING R/W (TYP)

XCEL ENERGY

LAYMAN AVE

CENTURYLINK

XCEL ENERGY
ASTREA

BM#4

PI: 1025+82.59

81+00

52 - PK IN PPOL

END RECONSTRUCT SECTION
BEGIN REHAB SECTION
STA 1026+25.00
SAWCUT REQD

PC: 1027+79.06

N

1022+00 1023+00 1024+00 1025+00 1026+00 1027+00 1028+00

N1° 49' 16"E

STH 13/MAIN ST

C MELLEN (SANITARY)

CENTURYLINK

RETAINING WALL R-02-0015
STA 1022+52 - STA 1025+46
REMOVING OLD STRUCTURE
(RETAINING WALL R-02-0012)

EXISTING R/W (TYP)

72+00

BM#3

BM

50 - PK IN PPOL

XCEL ENERGY

CENTURYLINK

PI STA = 1030+86.66
Y = 227545.10
X = 557392.89
DELTA = 12°21'35"
D = 2°01'01"
T = 307.60'
L = 612.81'
R = 2840.82'
PC STA = 1027+79.06
Y = 227237.98
X = 557375.66
PT STA = 1033+91.87
Y = 227841.41
X = 557475.45
BK = N03°12'36"E
AH = N15°34'11"E

CP

4 - 120D SPIKE

82+00

CP#7
STA 1025+94.40
52.4' RT, 120D SPIKE
Y = 227050.68
X = 557417.67

SLOPE INTERCEPT

STA 1027+68
CONSTRUCT PE (GRAVEL)
REMOVING SMALL PIPE CULVERT
1-24" CP REQ'D

5

5

1290
1280
1270
1260
1250

VPT STA 1022+40.00
VPT EL 1271.94

VPC STA 1023+48.22
VPC EL 1272.56

VPI STA 1023+93.22
VPI EL 1272.81

VPT STA 1024+38.22
VPT EL 1272.13

VPC STA 1025+05.00
VPC EL 1271.11

VPI STA 1025+52.50
VPI EL 1270.39

VPT STA 1026+00.00
VPT EL 1268.88

STA 1026+18.72
EL 1268.31

STA 1026+50.00
EL 1262.50

VPC STA 1026+82.25
VPC EL 1261.53

VPI STA 1027+00.00
VPI EL 1261.00

VPT STA 1027+17.75
VPT EL 1259.72

STA 1027+50.00
EL 1257.39

VPC STA 1027+77.50
VPC EL 1255.66

VPI STA 1027+90.00
VPI EL 1254.88

PROPOSED PROFILE

0.57%

-1.52%

-3.05%

-3.00%

-7.23%

-6.27%

EXISTING PROFILE

STA 1026+00.00
EL 1268.88

SPECIAL DITCH RT

VCL = 90.00
K = 23.99

VCL = 90.00
K = 43.13

VCL = 95.00
K = 57.21

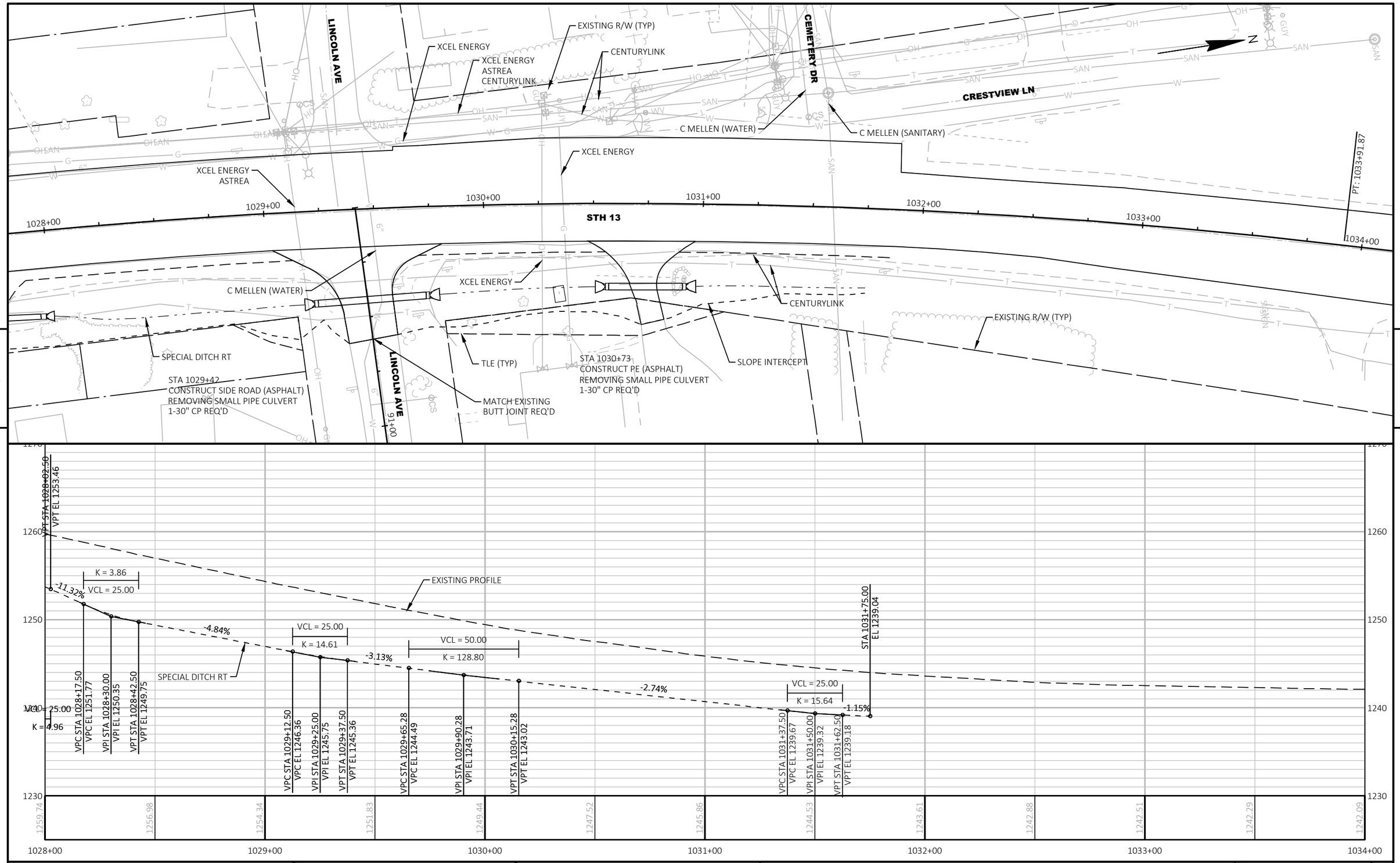
VCL = 35.51
K = 5.40

1271.07 1271.38 1271.84 1272.00 1272.33 1272.28 1272.64 1272.57 1272.53 1272.54 1271.96 1271.95 1271.08 1271.19 1270.05 1270.25 1268.88 1268.88 1267.16 1264.93 1262.46 1259.74

1022+00 1023+00 1024+00 1025+00 1026+00 1027+00 1028+00

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	PLAN AND PROFILE: STH 13	SHEET 124	E

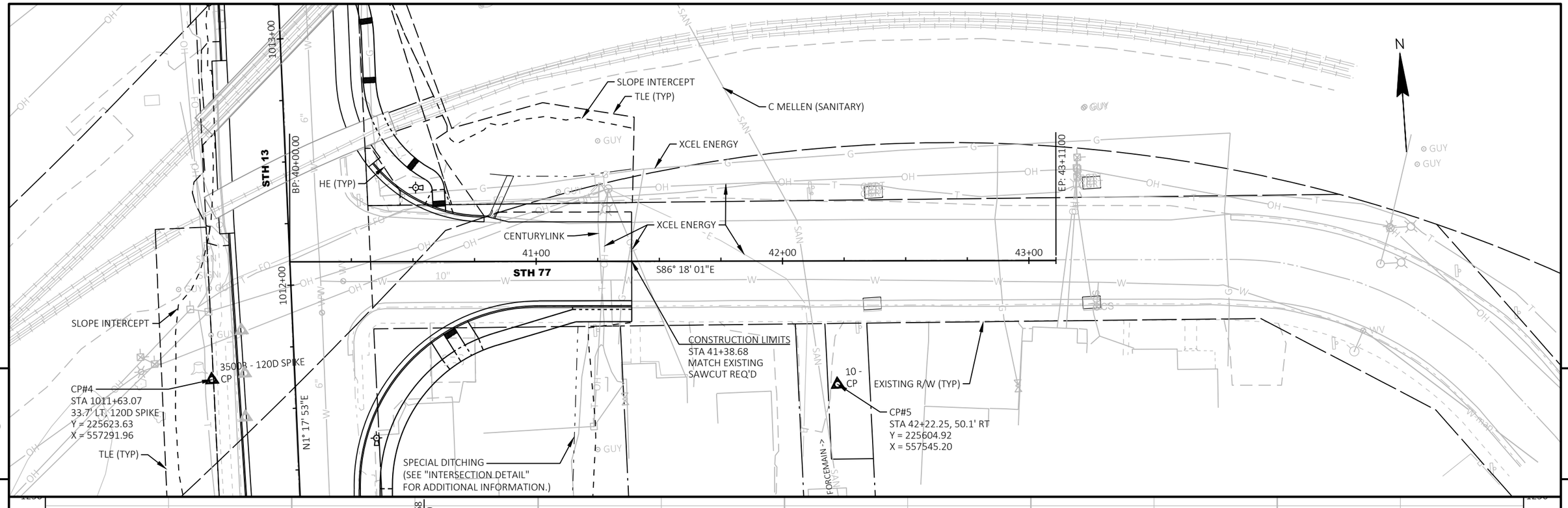
FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\050101-PP.DWG
LAYOUT NAME - 050105-pp
PLOT DATE : 10/11/2022 3:29 PM
PLOT BY : RESHESKE, CARRIE
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

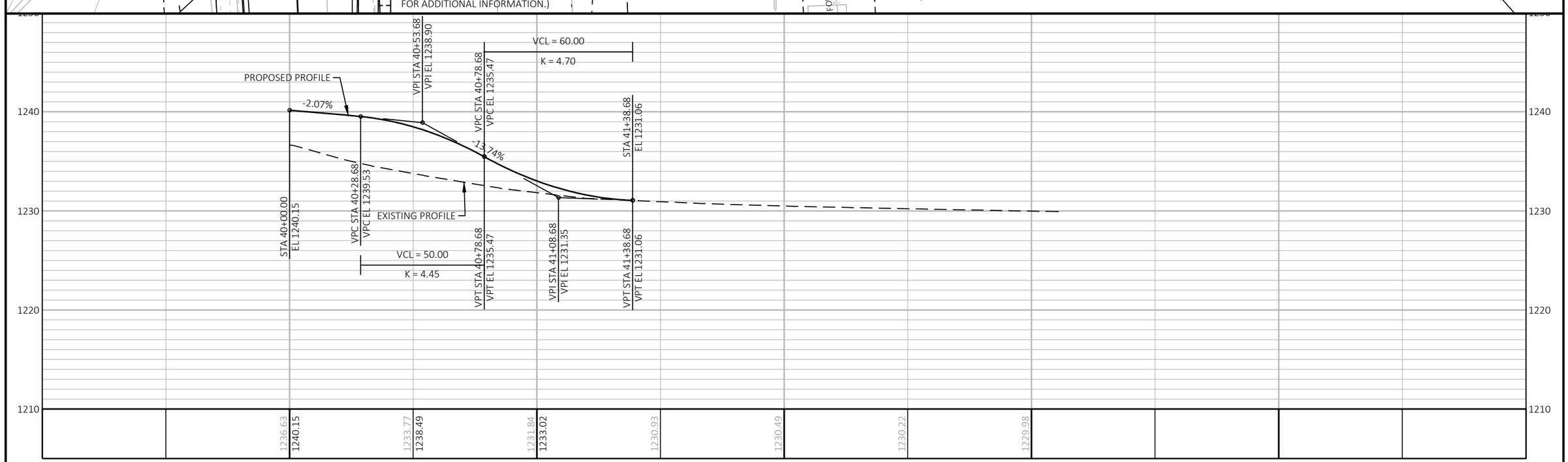


PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	PLAN AND PROFILE: STH 13	SHEET 125 E

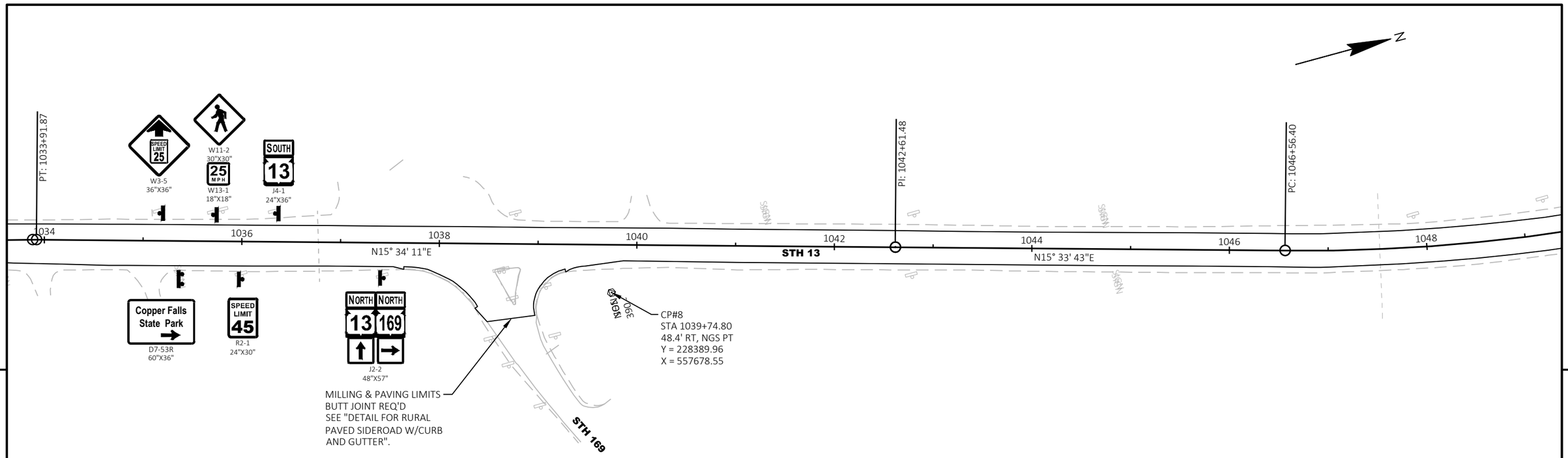
FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\050101-PP.DWG
LAYOUT NAME - 050106-pp

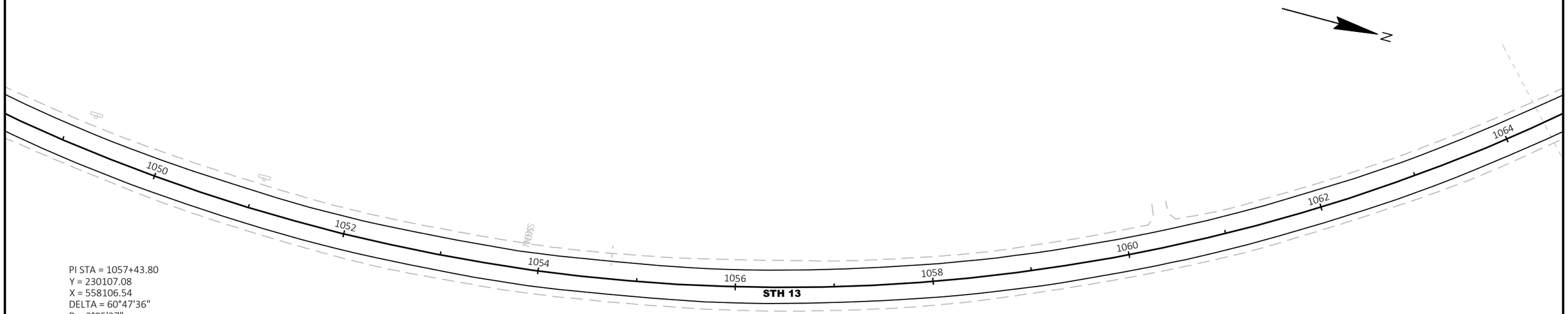
PLOT DATE : 10/11/2022 3:29 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:40 FT





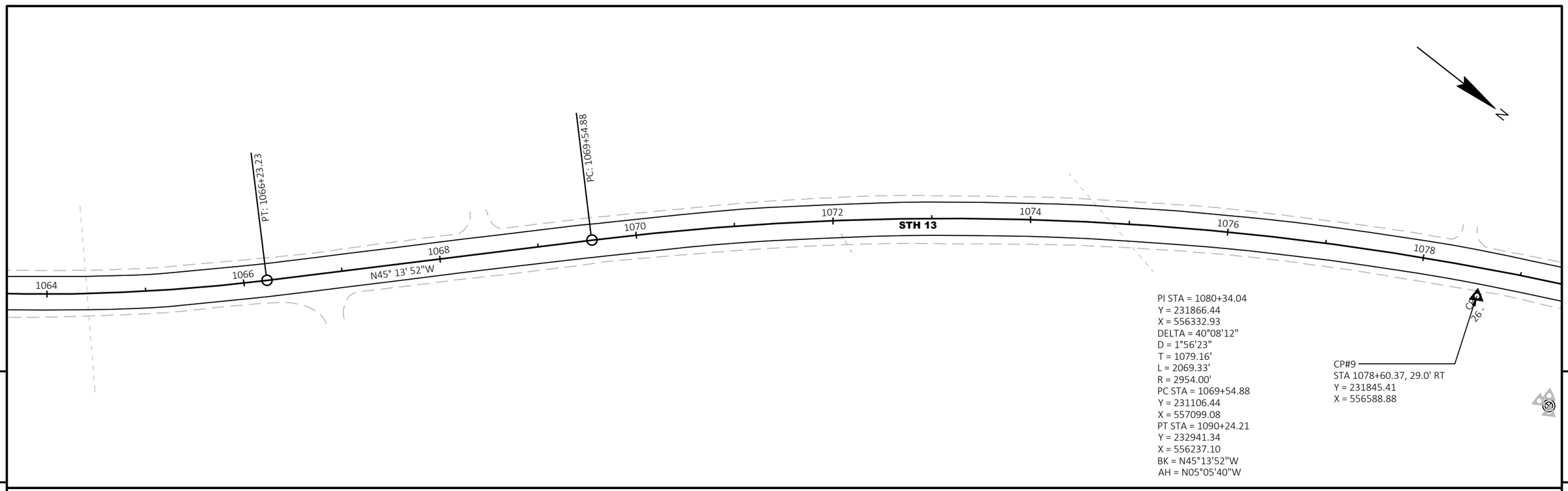
PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	PLAN AND PROFILE: STH 77	SHEET 126	E

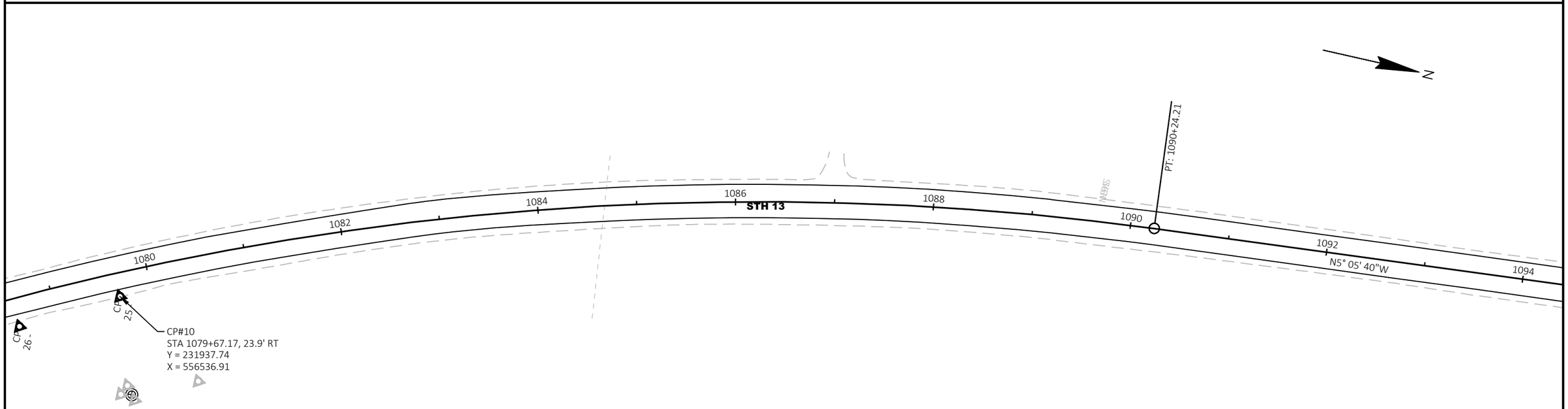




PI STA = 1057+43.80
Y = 230107.08
X = 558106.54
DELTA = 60°47'36"
D = 3°05'27"
T = 1087.40'
L = 1966.82'
R = 1853.67'
PC STA = 1046+56.40
Y = 229059.55
X = 557814.81
PT STA = 1066+23.23
Y = 230872.88
X = 557334.54
BK = N15°33'43"E
AH = N45°13'52"W

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	PLAN & PROFILE:	SHEET 127	E



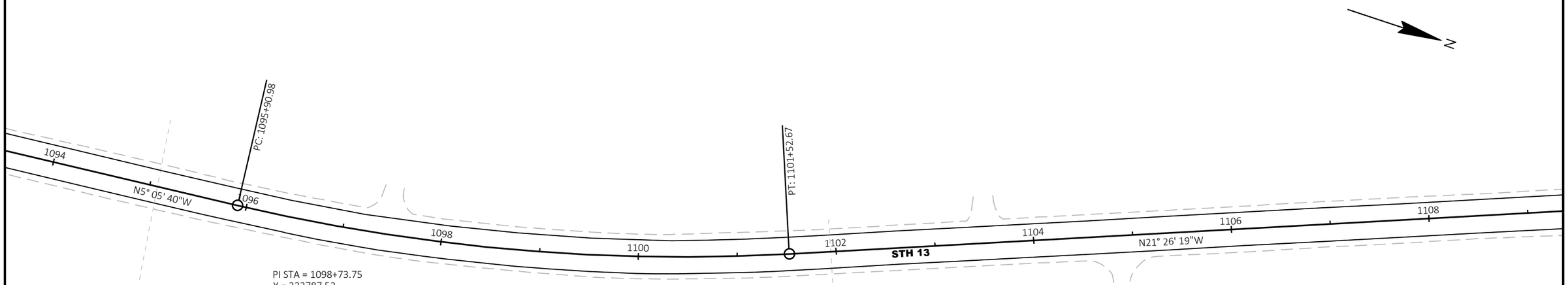


PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	PLAN & PROFILE:	SHEET 128	E

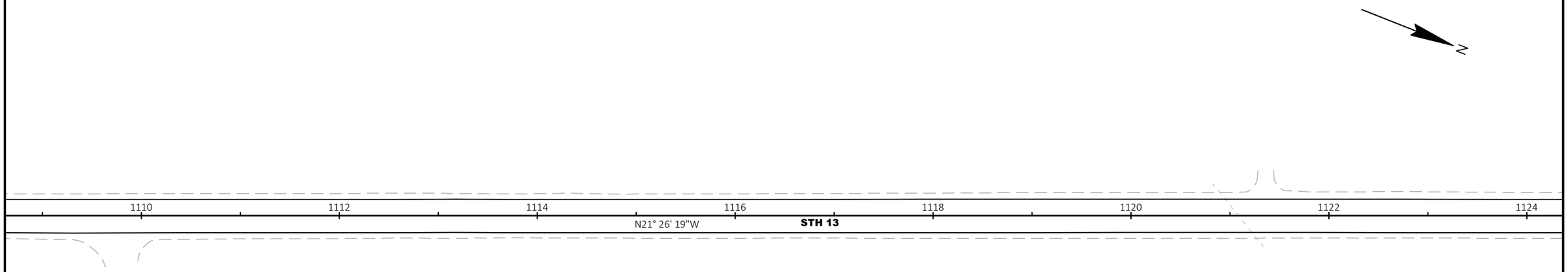
FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\050102-PP.DWG
LAYOUT NAME - 050108-pp

PLOT DATE : 10/11/2022 3:29 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

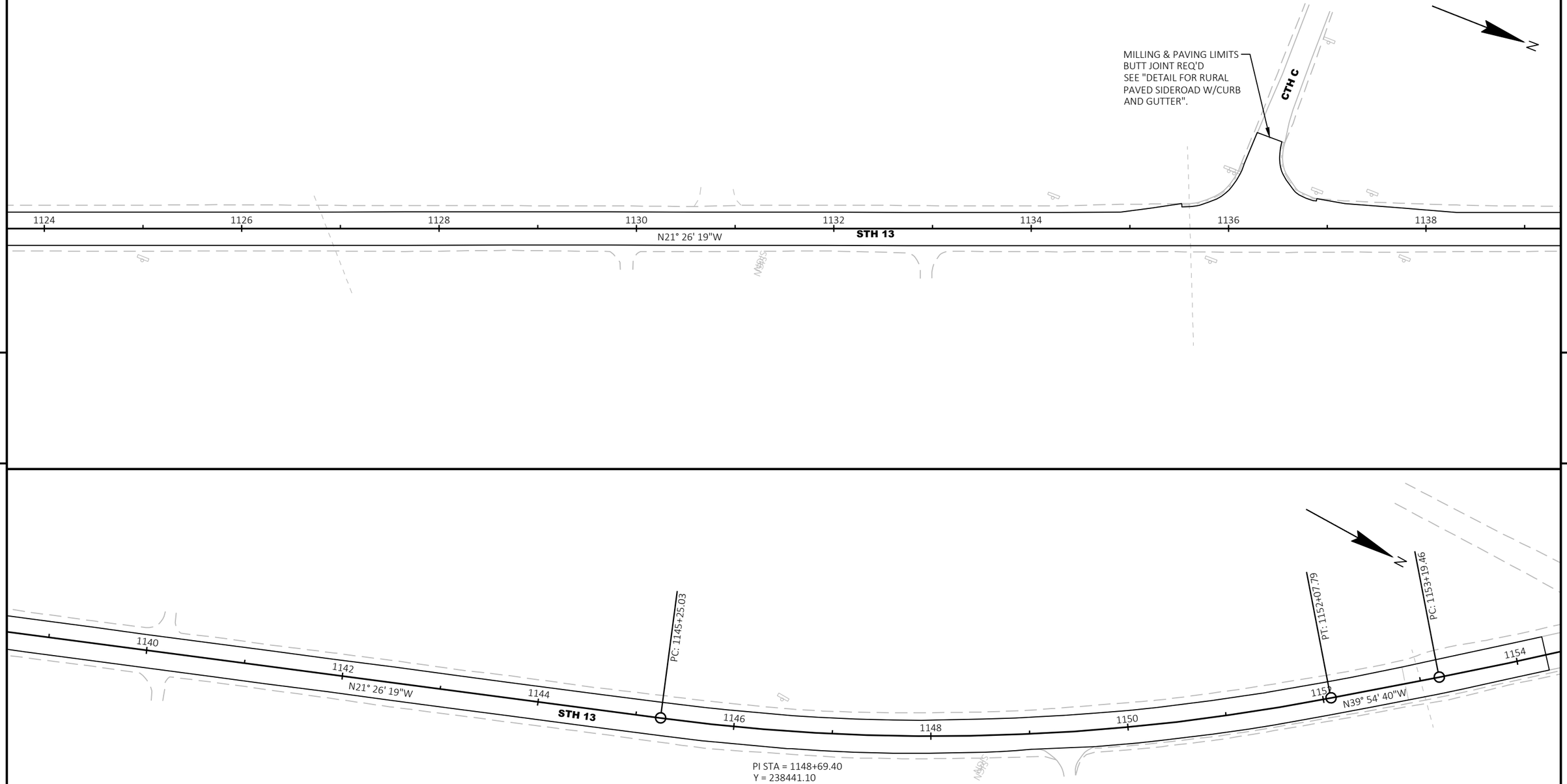


PI STA = 1098+73.75
Y = 233787.52
X = 556161.66
DELTA = 16°20'38"
D = 2°54'35"
T = 282.77'
L = 561.69'
R = 1969.07'
PC STA = 1095+90.98
Y = 233505.87
X = 556186.77
PT STA = 1101+52.67
Y = 234050.72
X = 556058.31
BK = N05°05'40"W
AH = N21°26'19"W



PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	PLAN & PROFILE:	SHEET 129	E

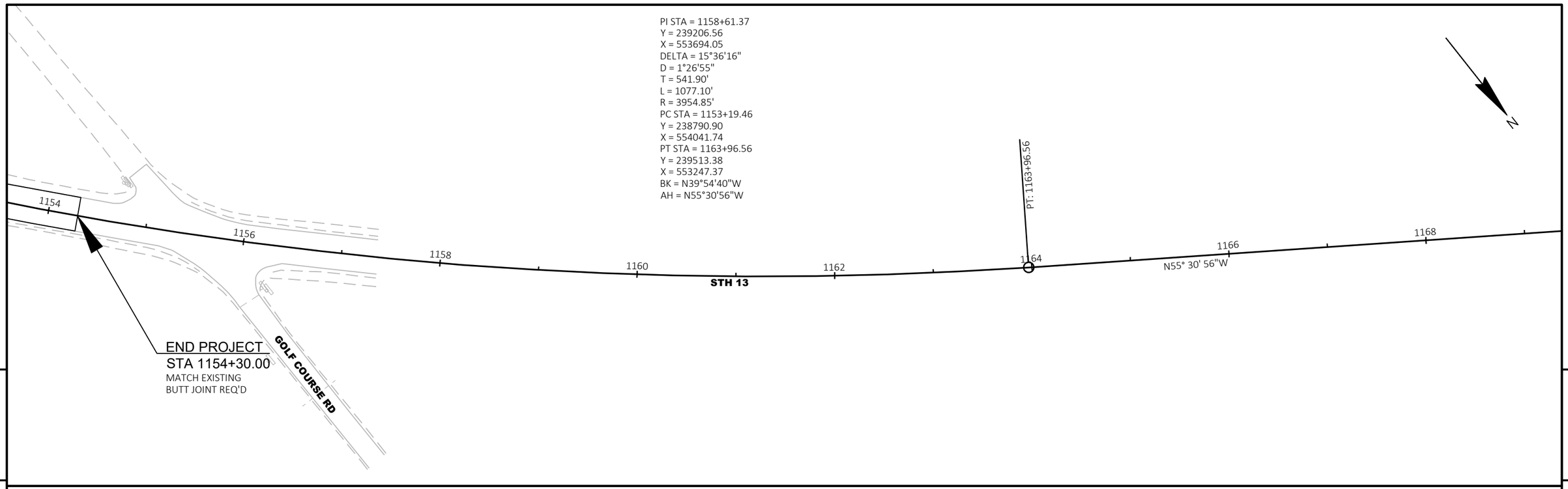
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LAYOUT NAME - 050109-pp
PLOT DATE : 10/11/2022 3:29 PM
PLOT BY : RESHESKE, CARRIE
PLOT NAME :
PLOT SCALE : 1 IN:100 FT



PI STA = 1148+69.40
Y = 238441.10
X = 554334.33
DELTA = 18°28'21"
D = 2°42'20"
T = 344.37'
L = 682.76'
R = 2117.70'
PC STA = 1145+25.03
Y = 238120.56
X = 554460.20
PT STA = 1152+07.79
Y = 238705.25
X = 554113.38
BK = N21°26'19"W
AH = N39°54'40"W

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	PLAN & PROFILE:	SHEET 130	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\050102-PP.DWG
LAYOUT NAME - 050110-pp
PLOT DATE : 10/11/2022 3:29 PM
PLOT BY : RESHESKE, CARRIE
PLOT NAME :
PLOT SCALE : 1 IN:100 FT



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PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	PLAN & PROFILE:	SHEET 131	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\050102-PP.DWG
LAYOUT NAME - 050111-pp
PLOT DATE : 10/11/2022 3:29 PM
PLOT BY : RESHESKE, CARRIE
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

Standard Detail Drawing List

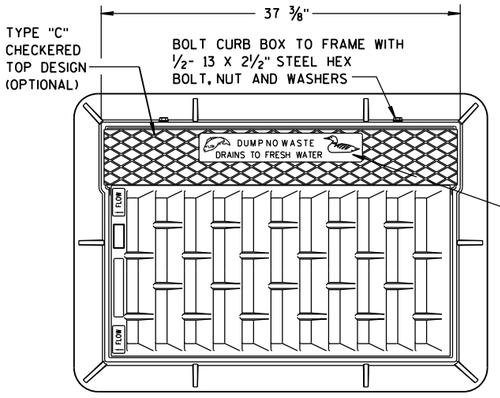
08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08A08-02	CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER
08A09-02	CATCH BASINS 2X3-FT AND 2.5X3-FT
08B09-03	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT, 10-FT DIAMETER
08C07-02	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08D01-22A	CONCRETE CURB & GUTTER
08D04-06	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D05-20A	CURB RAMPS TYPES 1 AND 1-A
08D05-20B	CURB RAMPS TYPES 2 AND 3
08D05-20C	CURB RAMPS TYPES 4A AND 4A1
08D05-20D	CURB RAMPS TYPE 4B AND 4B1
08D05-20E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-20F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-20G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08D18-03	DRIVEWAY AND SIDEWALK RAMPS TYPES X & Y
08D21-01	DRIVEWAYS WITHOUT CURB & GUTTER
08D22-01	DRIVEWAYS WITHOUT CURB & GUTTER RESURFACING PROJECTS RURAL
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-08	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09B02-10	CONDUIT
09B16-02	PULL BOX NON-CONDUCTIVE
09C02-09	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C14-03	CONCRETE CONTROL CABINET BASE, TYPE L
09D01-05	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09D04-03	LIGHTING CONTROL CABINET 120/240 VOLT
09D05-02	L30 LIGHTING CONTROL CABINET 240/480 VOLT
09E01-15D	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)
09E01-15G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E03-06	NON-FREEWAY LIGHTING UNIT POLE WIRING
12A03-10	NAME PLATE (STRUCTURES)
12A04-03	STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES & OVERHEAD SIGN SUPPORTS & TRAFFIC SIGNALS
13A10-02A	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02B	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02C	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02D	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A11-03A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-03B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13B01-10	PAVEMENT DETAILS FOR RAILROAD APPROACH
13B02-09A	CONCRETE PAVEMENT APPROACH SLAB
13B02-09B	STRUCTURAL APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-08C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C06-10	SIGNING & MARKING FOR TWO LANE BRIDGES
15C07-15B	PAVEMENT MARKING WORDS
15C07-15C	PAVEMENT MARKING ARROWS
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15C08-20C	PAVEMENT MARKING (TURN LANES)
15C08-21A	LONGITUDINAL MARKING (MAINLINE)
15C08-21B	TEMPORARY LONGITUDINAL PAVEMENT MARKING
15C09-12A	SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD-HIGHWAY GRADE CROSSINGS
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-09A	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-07A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-05A	PAVEMENT MARKING (INTERSECTIONS)
15D30-07A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

6

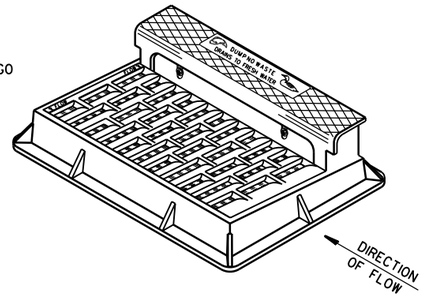
Standard Detail Drawing List

15D30-07B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-07C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-07D	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-07F	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-07I	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D39-02	TRAFFIC CONTROL, DROP-OFF SIGNING
15D40-04A	TRAFFIC CONTROL, FULL LANE SHIFT NON-FREEWAY OR MULTILANE DIVIDED 45 MPH AND UNDER
15D44-02	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES
15D45-03	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH LOOSE GRAVEL
15D48-01	TRAFFIC CONTROL, LANE SHIFT IN FLAGGING OPERATION

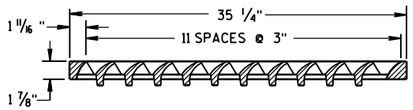
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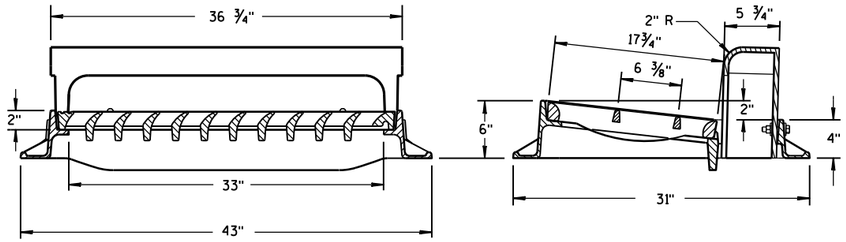


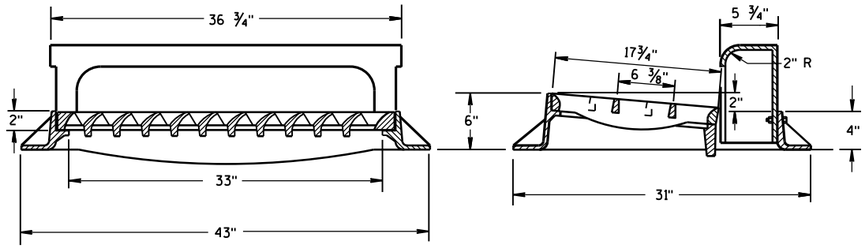
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

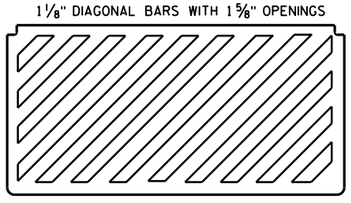






TYPE "H"

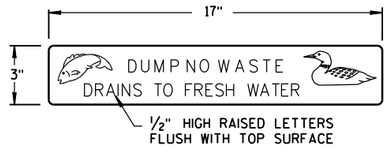
NOTE: EITHER CASTING IS ACCEPTABLE



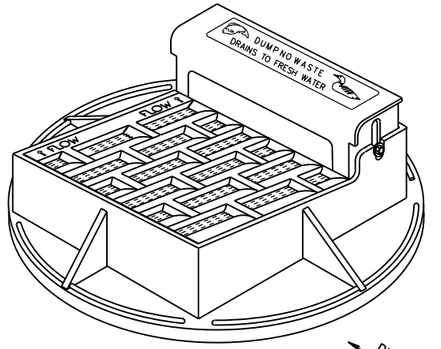
SPECIAL GRATE FOR TYPE "H" COVER

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

(NOTED AS TYPE H-S ON DRAINAGE TABLE)



LOGO DETAIL



NOTE: CURB BOX ADJUSTABLE 4" TO 9"

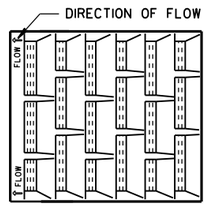
NOTE:
GRATE IS REVERSIBLE.

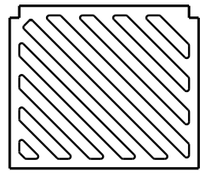
GENERAL NOTES

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

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

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

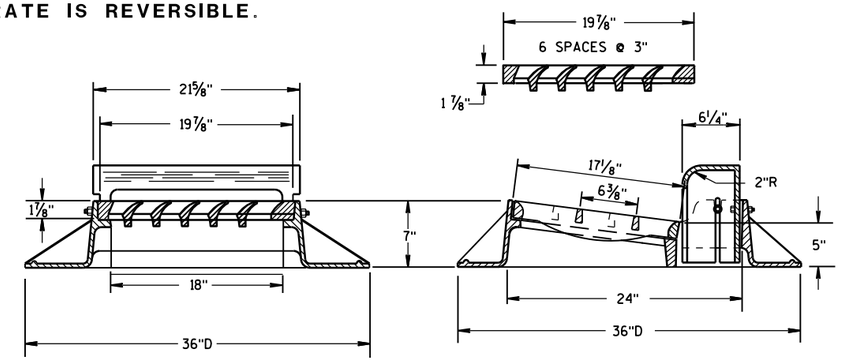




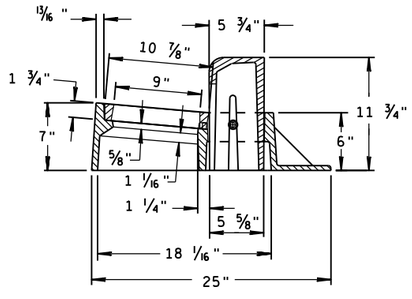
SPECIAL GRATE FOR TYPE "A" COVER

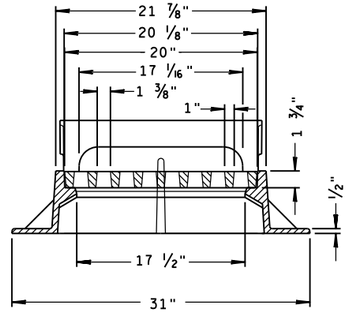
(MEASURES 19 3/4" X 17" X 1 7/8")

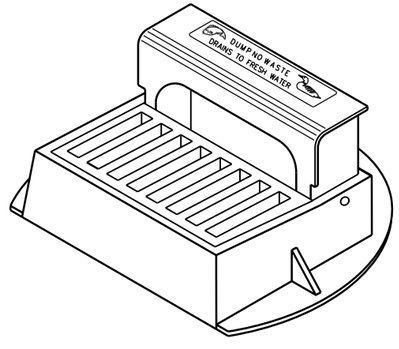
(NOTED AS TYPE A-S ON DRAINAGE TABLE)



TYPE "A"







TYPE "Z"

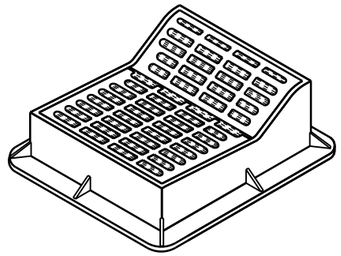
INLET COVERS
TYPE A, H, A-S, H-S & Z

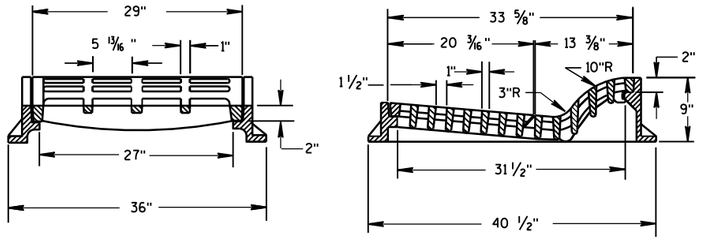
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

6

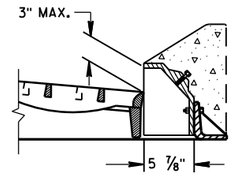
S.D.D. 8 A 5-19a





TYPE "F"

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



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

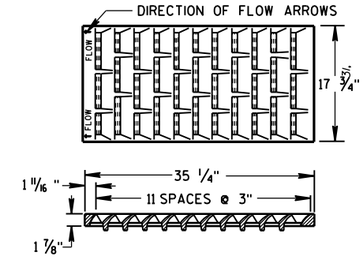
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

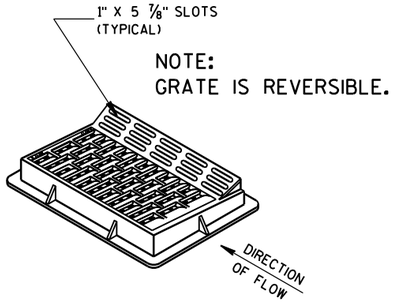
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

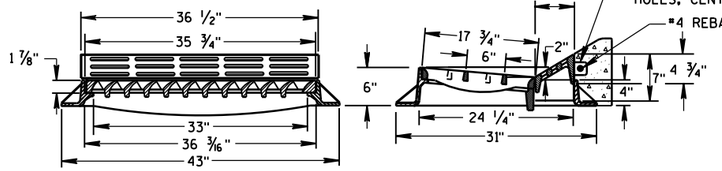
GENERAL NOTES

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

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



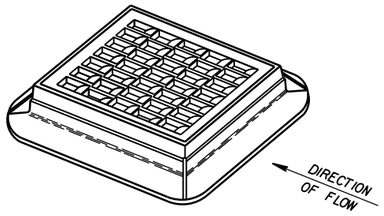


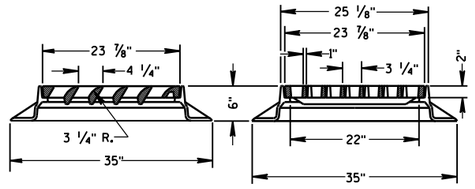


TYPE "HM"

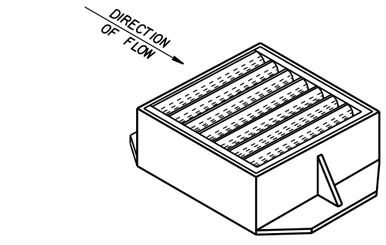
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

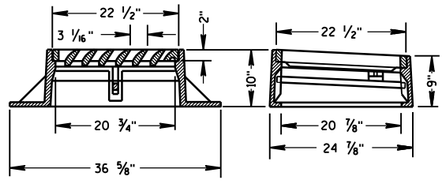
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



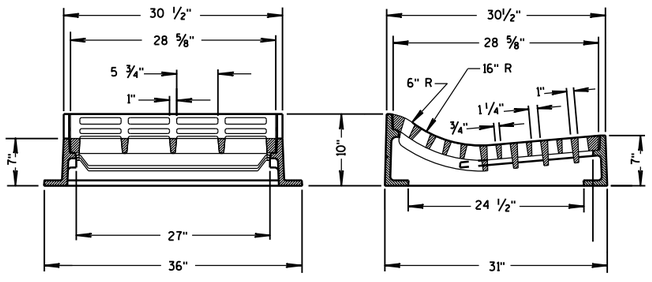


TYPE "S"



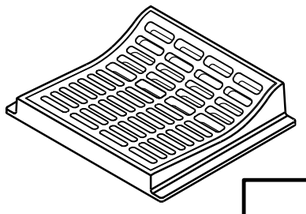


TYPE "V"



TYPE "T"

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



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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

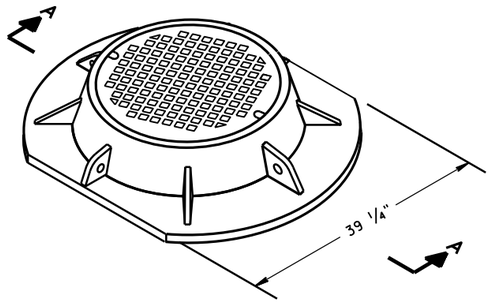
APPROVED
11/27/2013
DATE

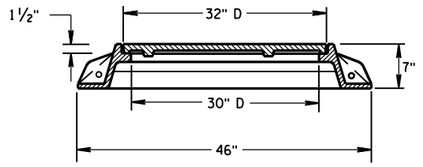
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

FHWA

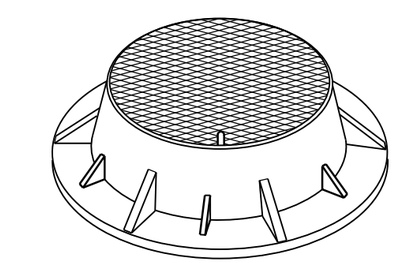
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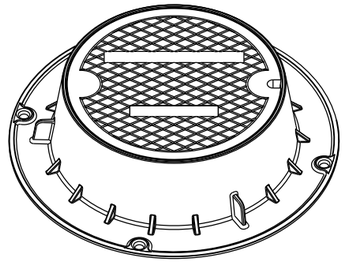
S.D.D. 8 A 5-19c

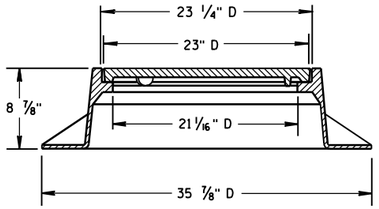


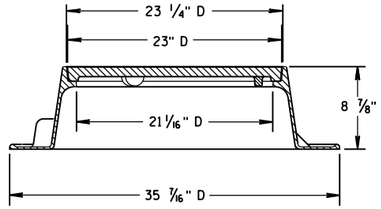


SECTION A-A
TYPE "K"









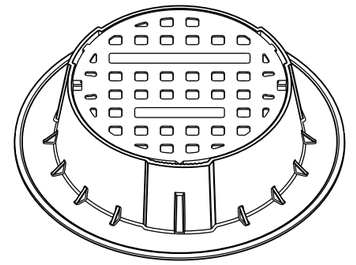
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

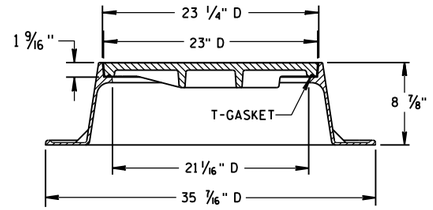
GENERAL NOTES

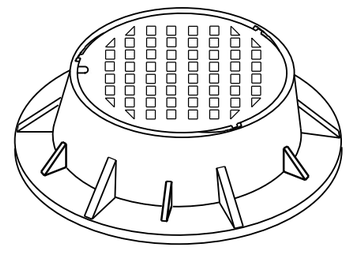
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

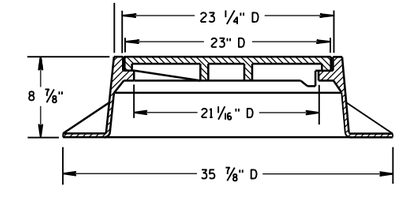
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

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

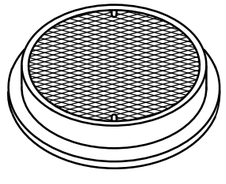


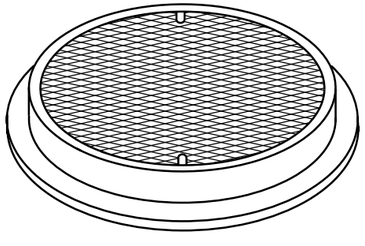


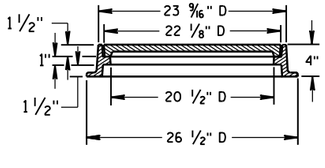




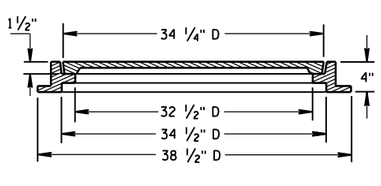
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE



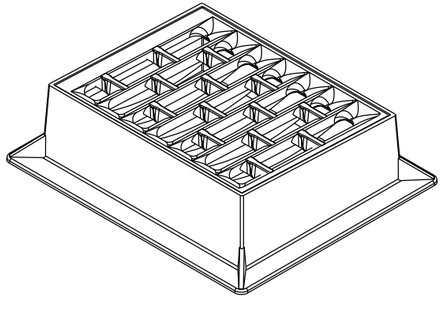


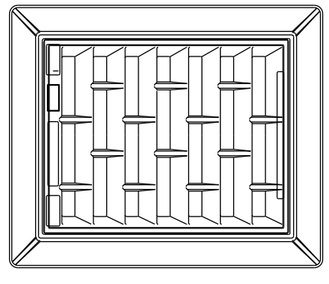


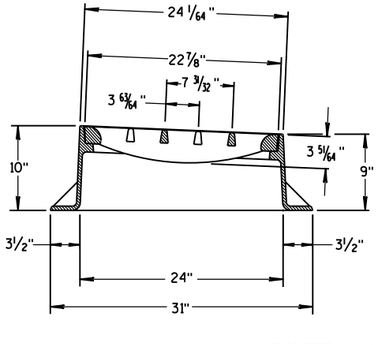
TYPE "L"

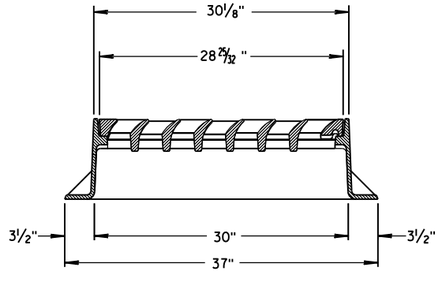


TYPE "M"









INLET COVER TYPE "BW"

INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

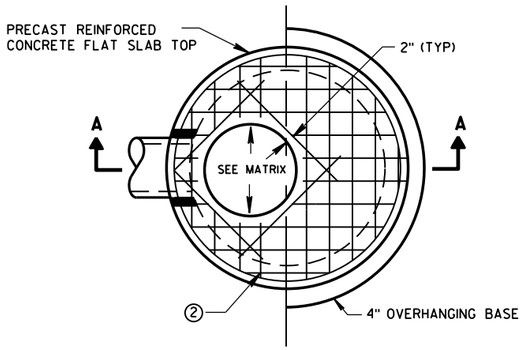
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
FHWA

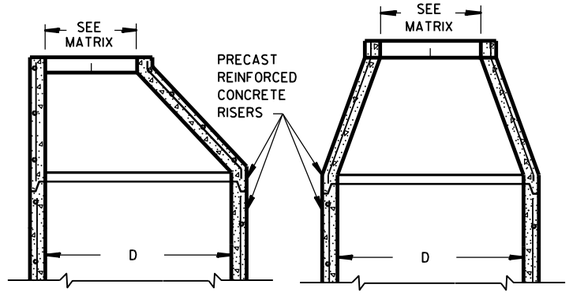
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

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

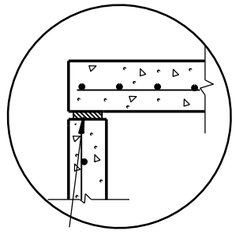


PLAN VIEW CIRCULAR OPENING

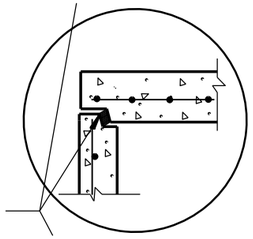


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

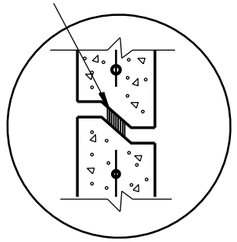
OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP



TOP WITH PLAIN END JOINT

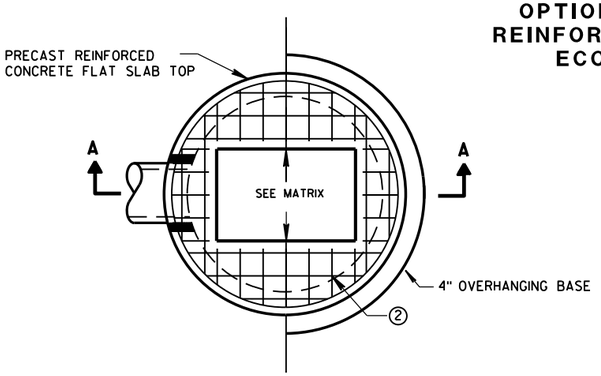


TOP WITH TONGUE AND GROOVE JOINT

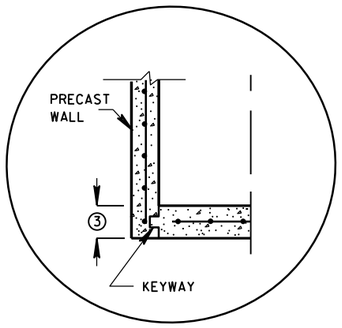


RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

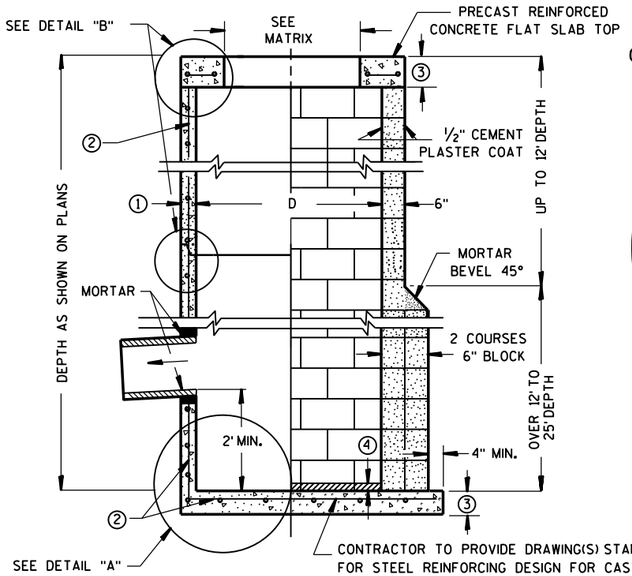


PLAN VIEW RECTANGULAR OPENING



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

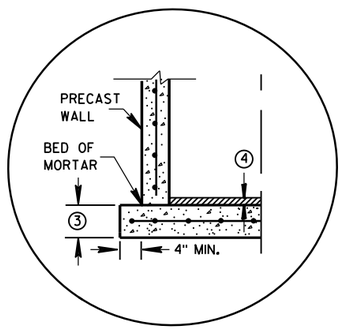
PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SECTION A-A

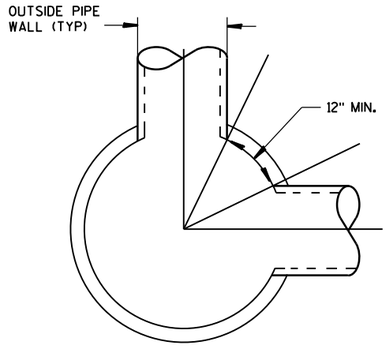
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

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



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT AND 7 INCHES FOR 6-FT DIAMETER PRECAST CATCH BASINS.

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

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

④ 1" CONCRETE KEY POURED AFTER INSTALLATION. 2' SUMP MEASURED FROM TOP OF KEY.

CATCH BASIN COVER OPENING MATRIX

CATCH BASIN SIZE	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
	OPENING SIZE (FT)											
3-FT	2X2	X	X					X		X		
	2 DIA.				X							X
4-FT-6-FT	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2 DIA.				X							X
	2X3						X					
	2.5X3					X						

PIPE MATRIX

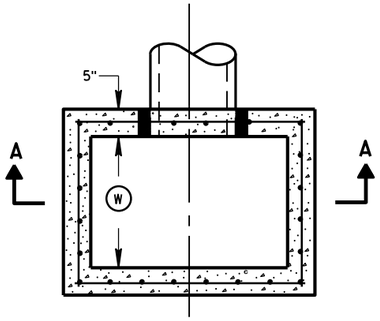
CATCH BASIN SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	30

CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER

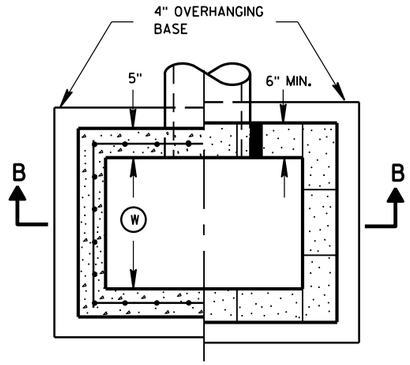
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS UNIT SUPERVISOR
FHWA

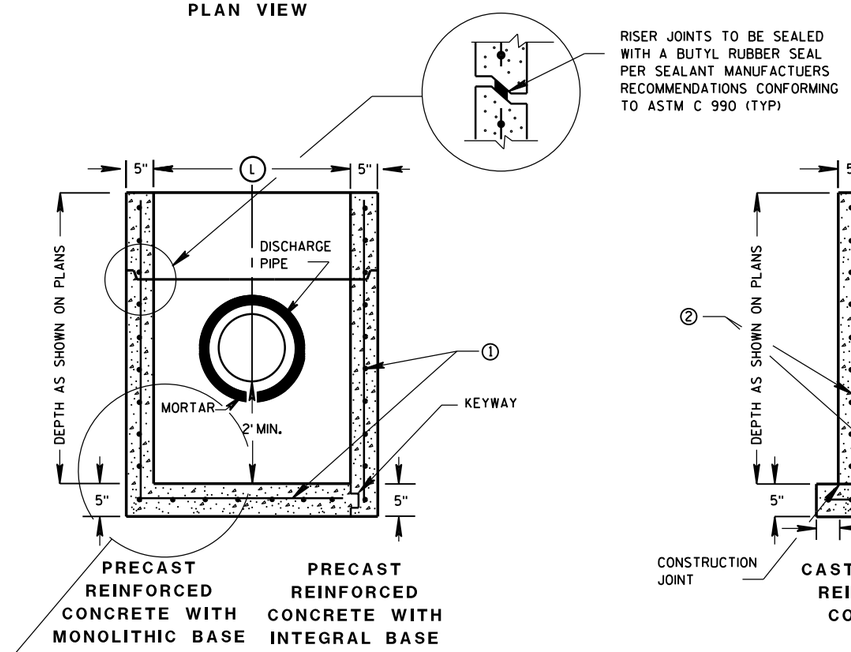
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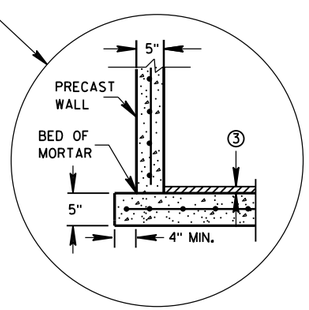
PLAN VIEW



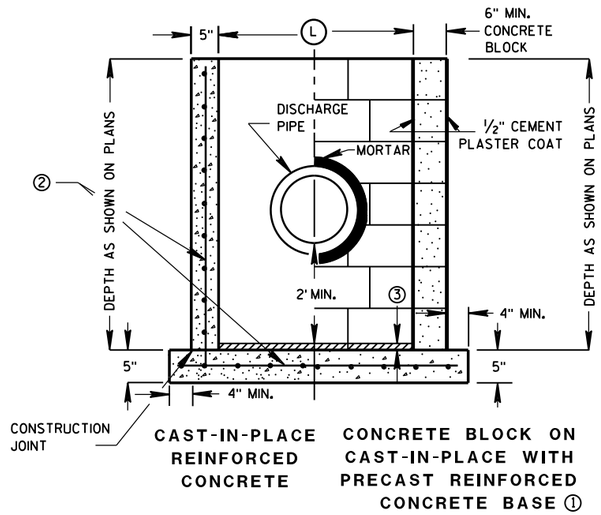
PLAN VIEW



SECTION A-A



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION



SECTION B-B

GENERAL NOTES

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

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

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

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

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

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

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

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

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

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

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

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

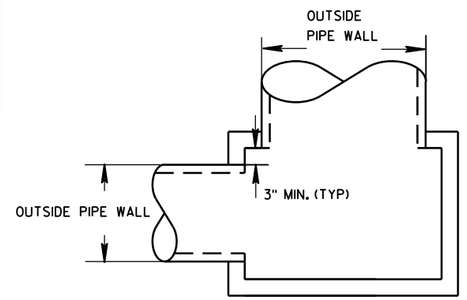
③ 1" CONCRETE KEY POURED AFTER INSTALLATION. 2' SUMP MEASURED FROM TOP OF KEY.

CATCH BASIN COVER MATRIX

CATCH BASIN SIZE		INLET COVER TYPE	F	ALL H'S
	WIDTH (W) (FT)	LENGTH (L) (FT)		
2X3-FT	2	3		X
2.5X3-FT	2.5	3	X	

PIPE MATRIX

CATCH BASIN SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	WIDTH (IN)	LENGTH (IN)
2X3-FT	12	24
2.5X3-FT	18	24

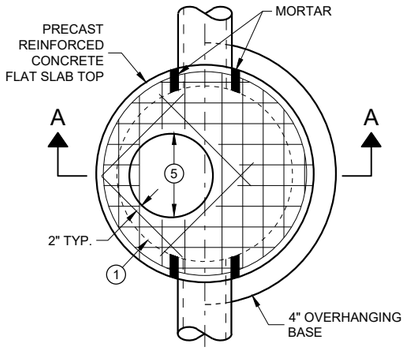


DETAIL "A"

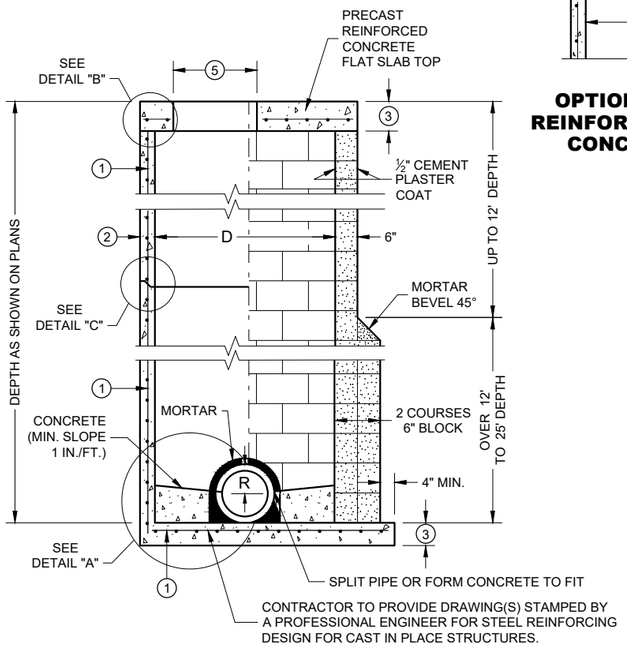
CATCH BASINS 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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



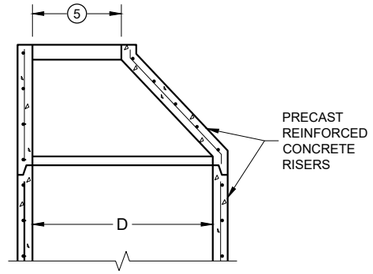
PLAN VIEW
CIRCULAR OPENING



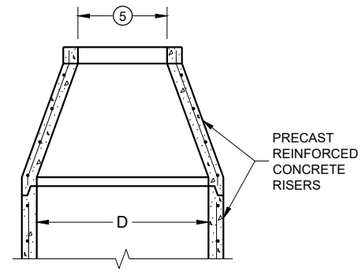
SECTION A - A

PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

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



OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP



OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

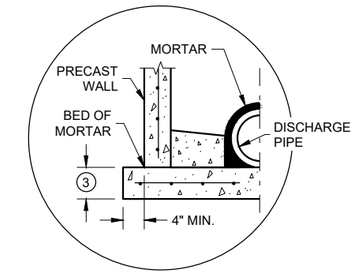
MANHOLE COVER OPENING MATRIX

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

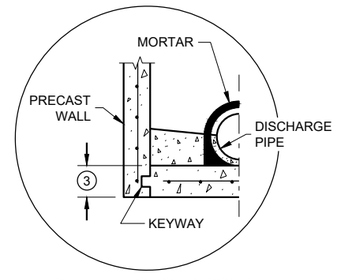
PIPE MATRIX

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

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

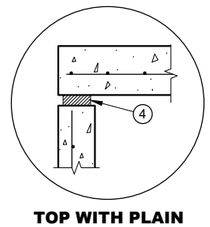


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

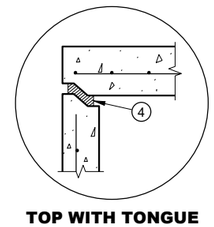


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

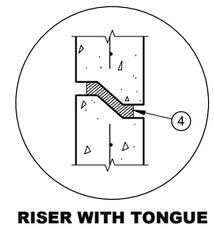
DETAIL "A"



TOP WITH PLAIN END JOINT



TOP WITH TONGUE AND GROOVE JOINT



RISER WITH TONGUE AND GROOVE JOINT

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

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

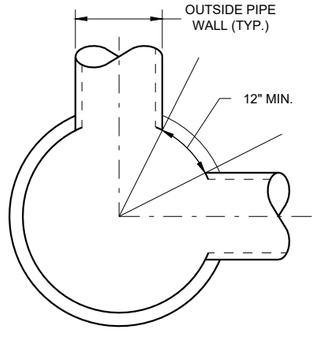
(1) FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

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

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

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

(5) SEE MANHOLE COVER OPENING MATRIX.



MINIMUM HORIZONTAL PIPE SEPARATION

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

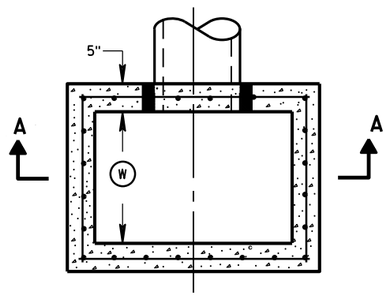
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

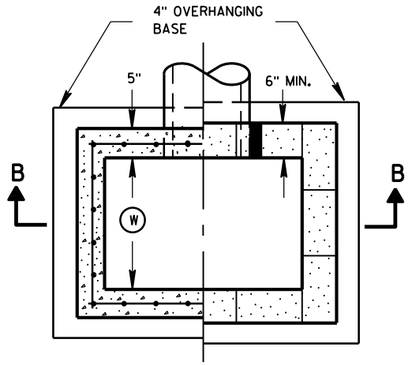
MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT AND 10-FT DIAMETER

6

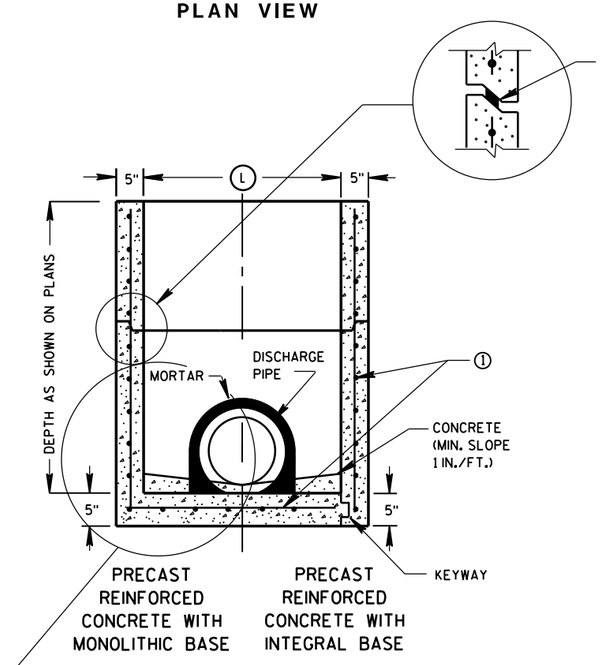
SDD 08B09 - 03



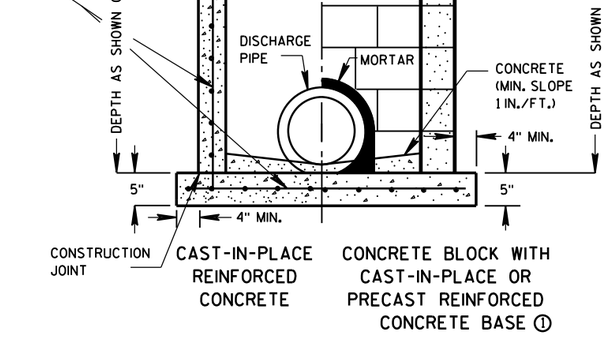
PLAN VIEW



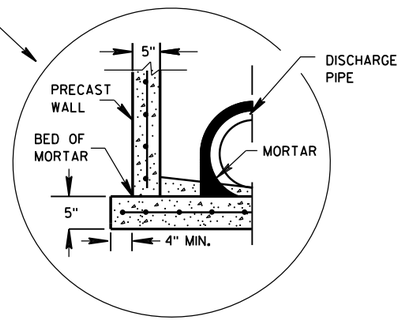
PLAN VIEW



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

GENERAL NOTES

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

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

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

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

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

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

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

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

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

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

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

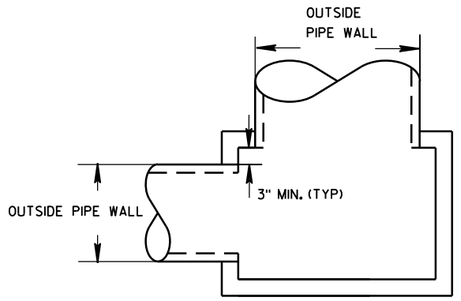
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH (W) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



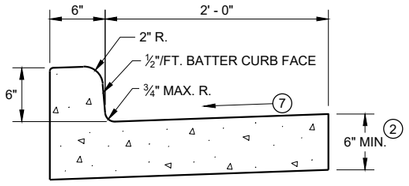
DETAIL "A"

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

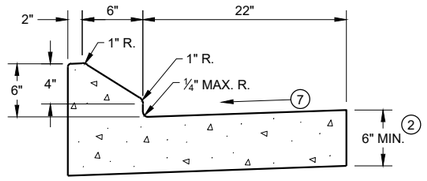
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS D IT UNIT SUPERVIS
FHWA

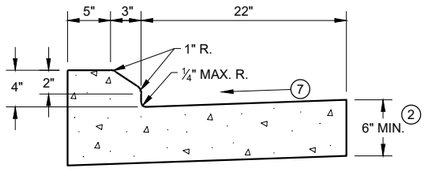
INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT



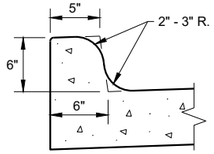
TYPES A (1) & D



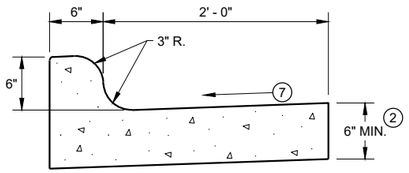
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

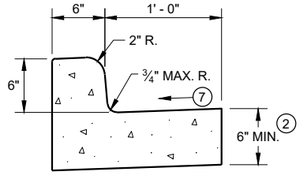


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



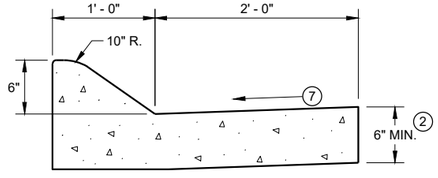
TYPES K (1) & L

CONCRETE CURB AND GUTTER 30"

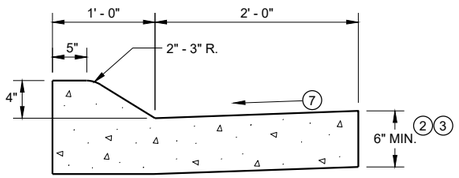


TYPES A (1) & D

CONCRETE CURB AND GUTTER 18"

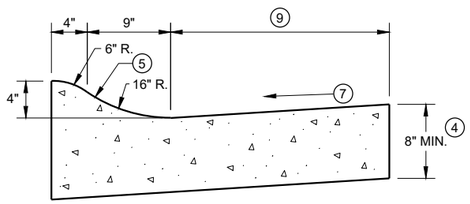


6" SLOPED CURB TYPES A (1) & D



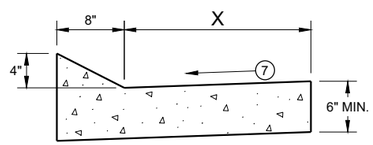
4" SLOPED CURB TYPES A (1) & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R (1) & T

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

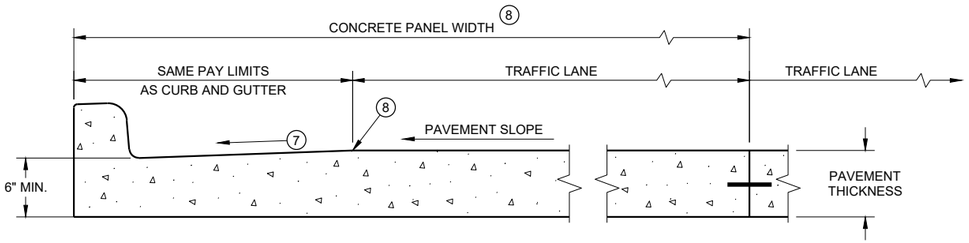


TYPES TBT & TBTT (1)

CONCRETE CURB AND GUTTER

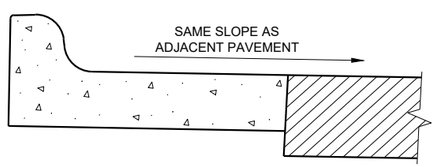
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

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



PARTIAL SECTION OF PAVEMENT * WITH INTEGRAL CURB AND GUTTER

* BIKE LANE IS NOT SHOWN



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

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

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

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

CONCRETE CURB AND GUTTER

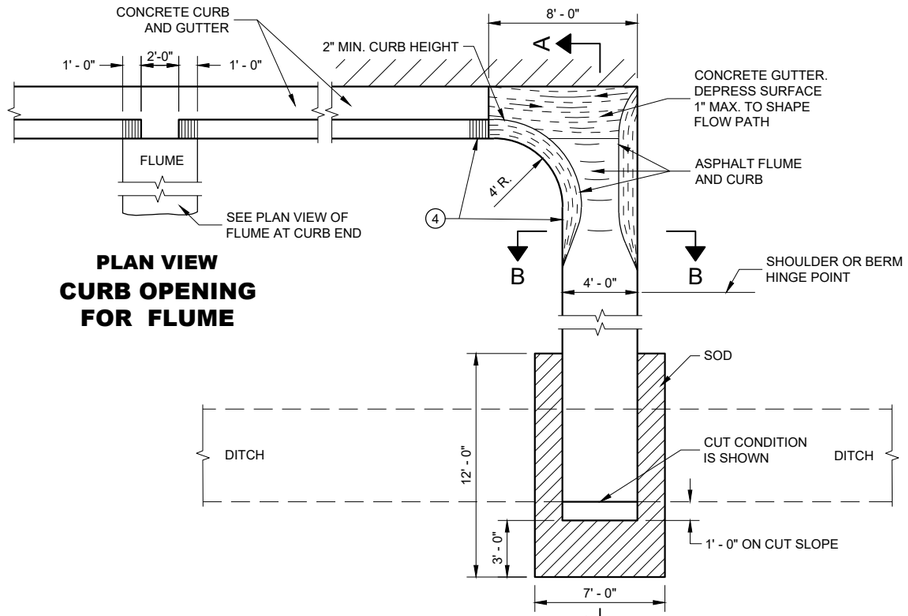
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 08D01 - 22a

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

ASPHALTIC FLUME

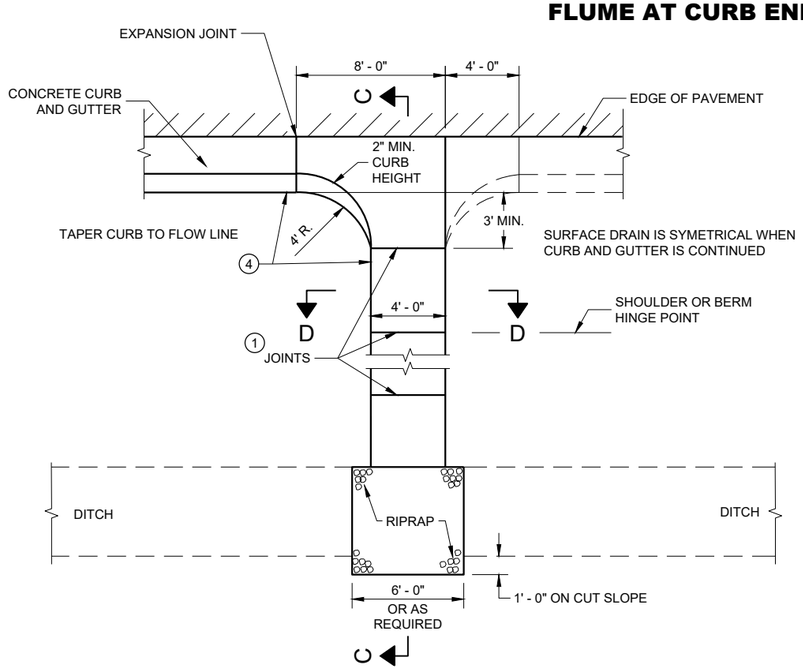


PLAN VIEW

CURB OPENING FOR FLUME

PLAN VIEW

FLUME AT CURB END



PLAN VIEW

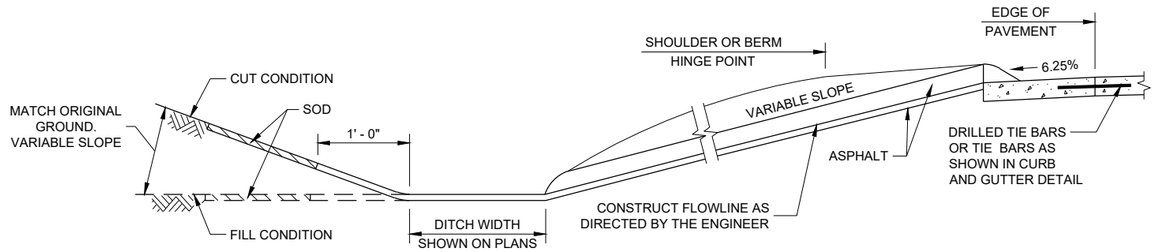
CONCRETE SURFACE DRAIN

GENERAL NOTES

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

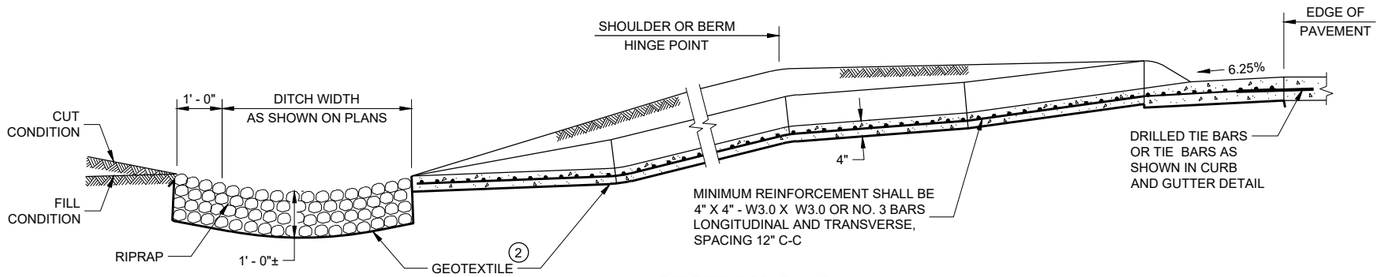
4" X 4" - W3.0 X W3.0 CONCRETE REINFORCEMENT SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

1. JOINTS SHALL BE ⅛" TO ¼" WIDE BY 1½" DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.
2. GEOTEXTILE TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.
3. CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED.
4. ANGLE OF FLUME IN RELATION TO BACK OF CURB TO BE CONSTRUCTED PER THE PLAN DETAILS OR AS DIRECTED BY THE ENGINEER. ANGLE OF FLUME MAY BE OTHER THAN 90 DEGREES AS SHOWN.

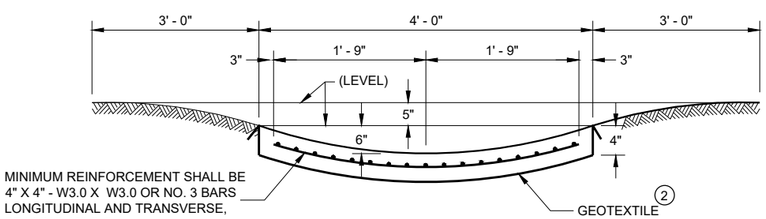


SECTION A - A

SECTION B - B



SECTION C - C



SECTION D - D

CONCRETE SURFACE DRAINS AND ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

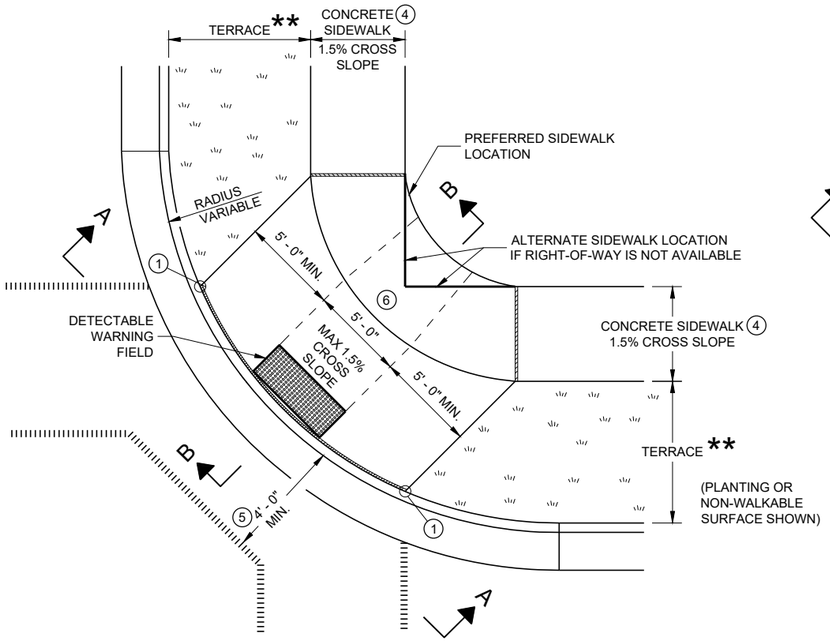
APPROVED
November 2021
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA

SDD 08D04 - 06

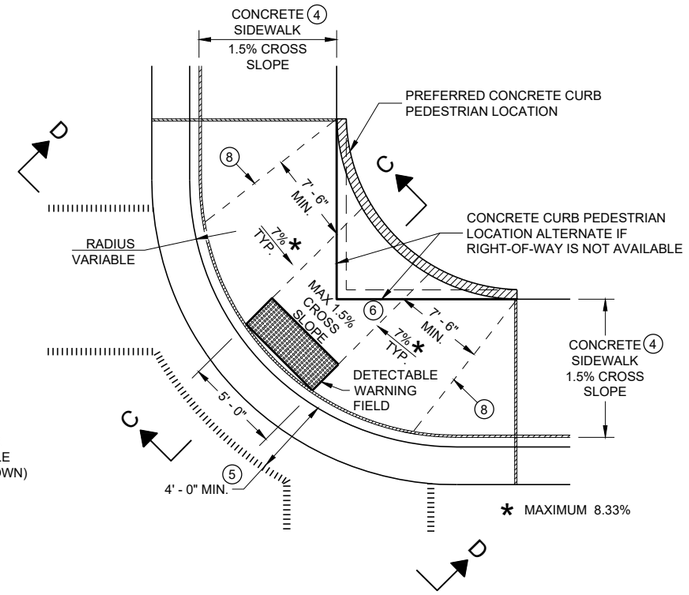
SDD 08D04 - 06



PLAN VIEW

CURB RAMP TYPE 1

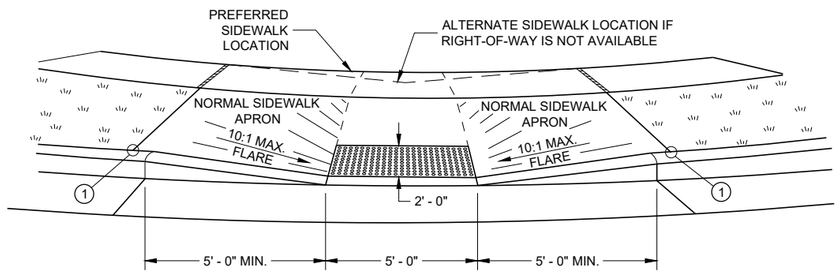
(CENTER OF CORNER RADIUS)



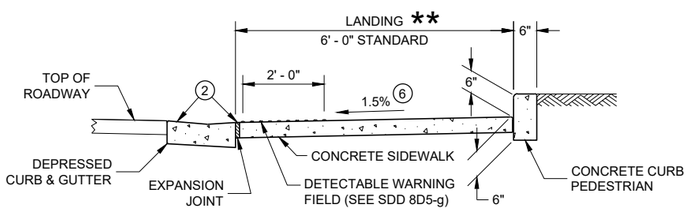
PLAN VIEW

CURB RAMP TYPE 1 - A

(NO TERRACE)

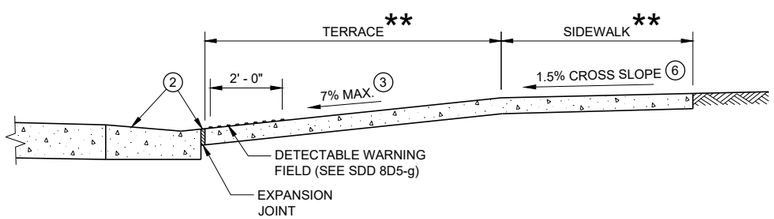


VIEW A - A FOR TYPE 1

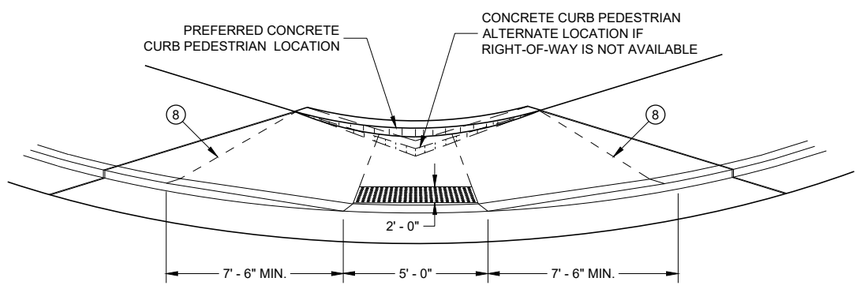


SECTION C - C FOR TYPE 1 - A

** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B - B FOR TYPE 1



VIEW D - D FOR TYPE 1 - A

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

LEGEND

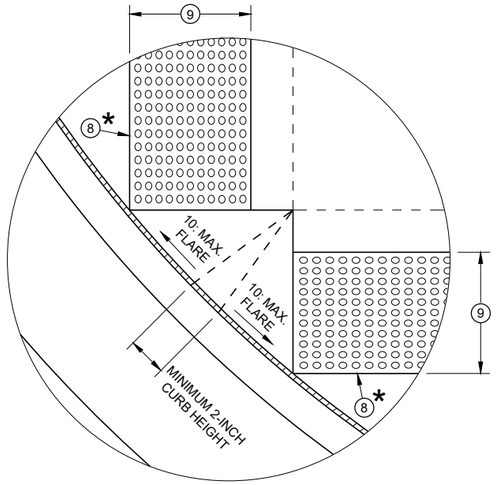
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPE 1 AND 1-A

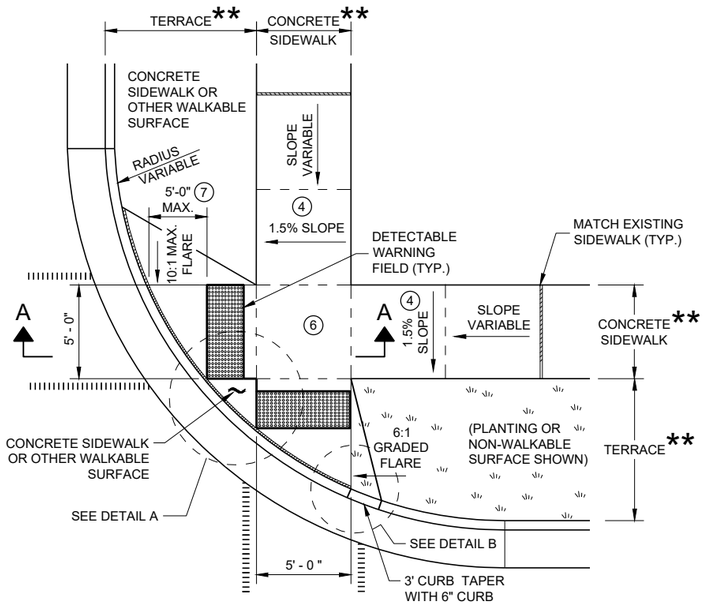
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20a



DETAIL A



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

GENERAL NOTES

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

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

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

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

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

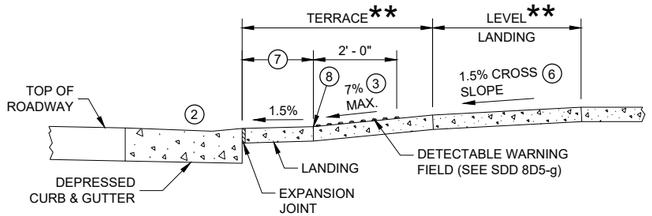
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

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

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

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

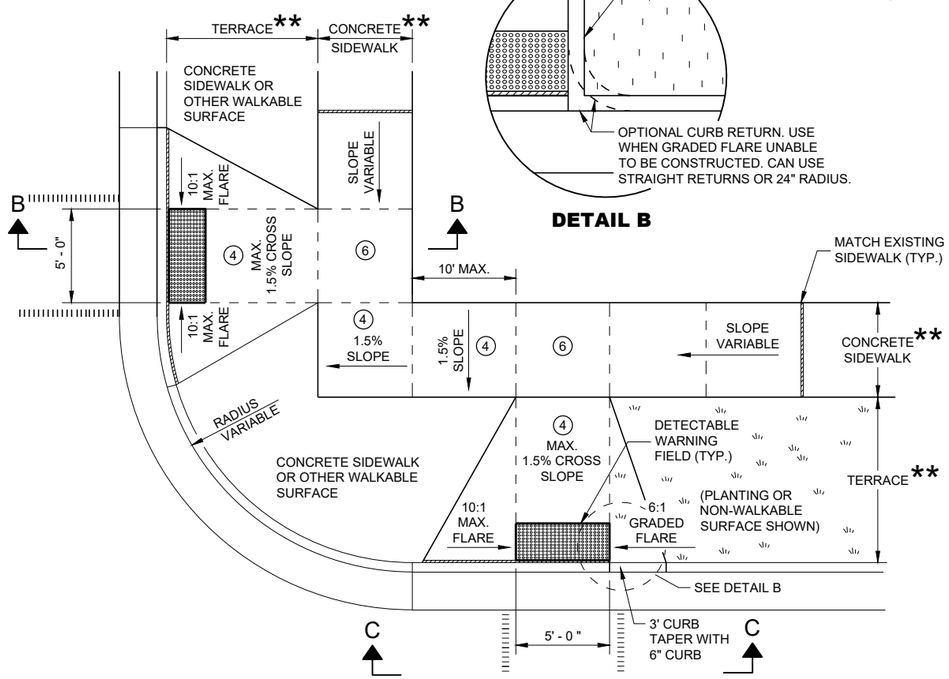
(9) WHEN DISTANCE IS LESS THAN 6' - 0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.



SECTION A - A FOR TYPE 2

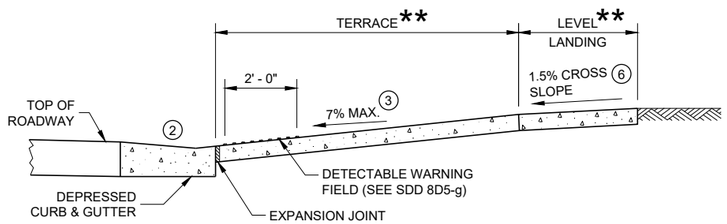
* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS



DETAIL B

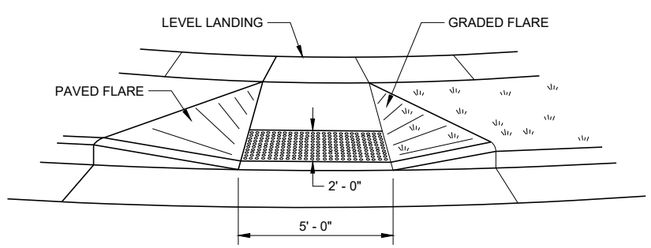
PLAN VIEW
CURB RAMP TYPE 3
(OUTSIDE OF CROSSWALK AREA)



SECTION B - B FOR TYPE 3

LEGEND

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



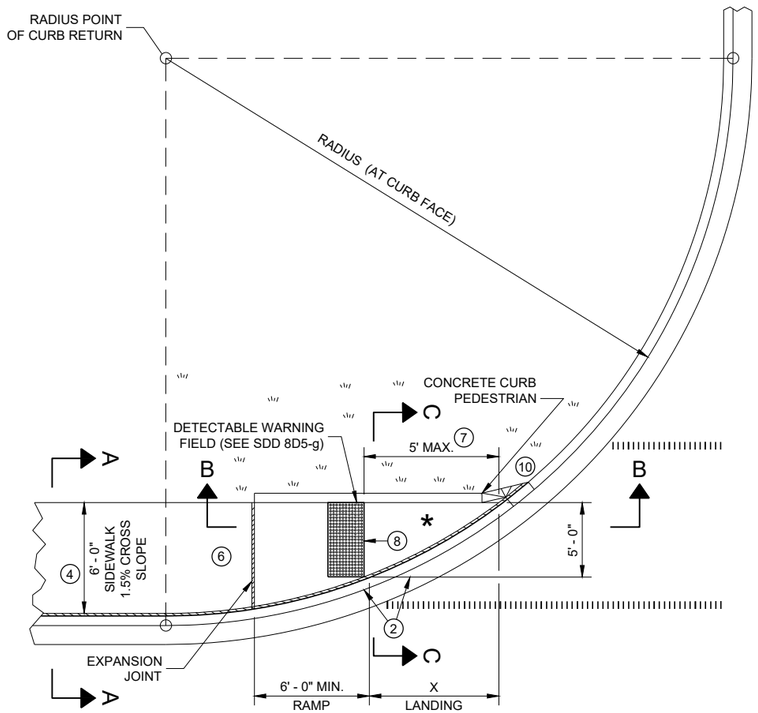
VIEW C - C FOR TYPE 3

CURB RAMPS TYPE 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20b

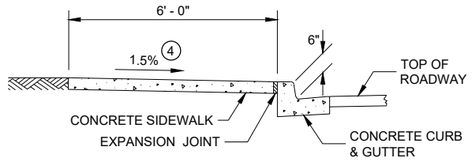


PLAN VIEW

CURB RAMP TYPE 4A

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

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A - A FOR TYPE 4A

GENERAL NOTES

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

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

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

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

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

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

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

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

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

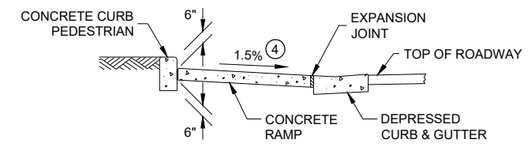
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

LEGEND

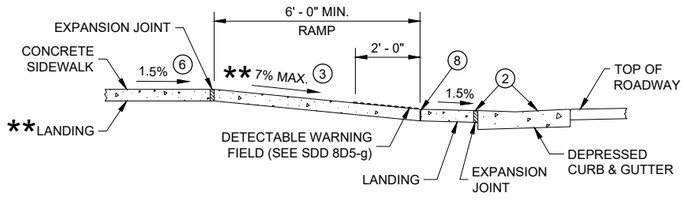
½" EXPANSION JOINT SIDEWALK

CONTRACTION JOINT SIDEWALK

PAVEMENT MARKING CROSSWALK (WHITE)



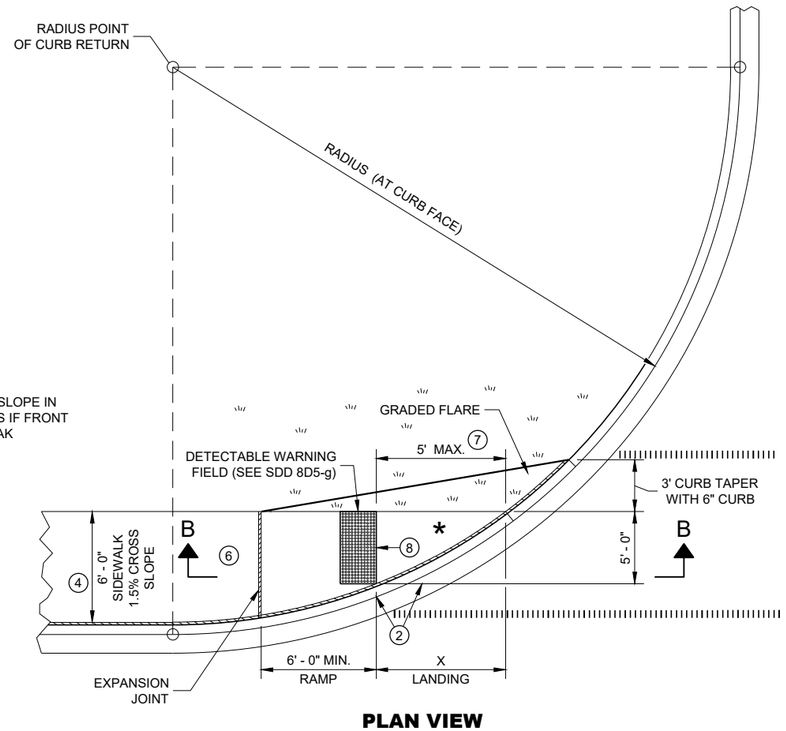
SECTION C - C FOR TYPE 4A



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

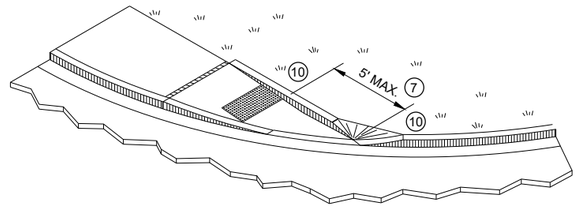
** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

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

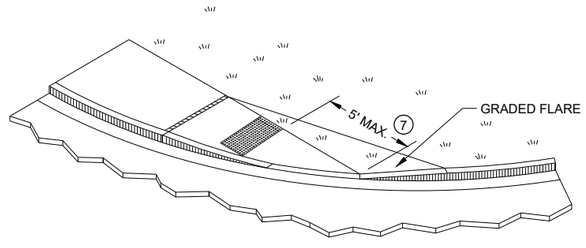


PLAN VIEW

CURB RAMP TYPE 4A1



ISOMETRIC VIEW FOR TYPE 4A



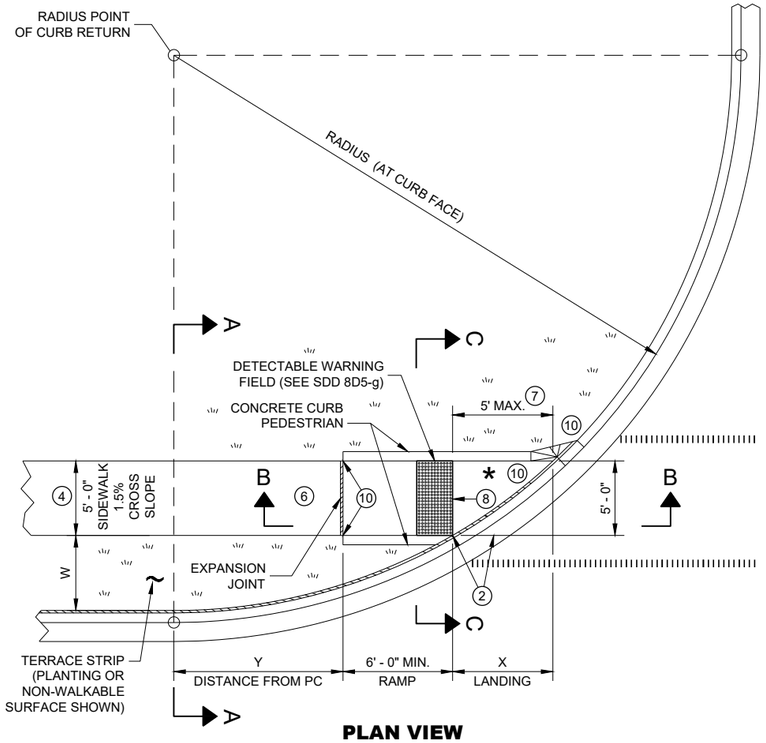
ISOMETRIC VIEW FOR TYPE 4A1

CURB RAMPS
TYPE 4A AND 4A1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20c

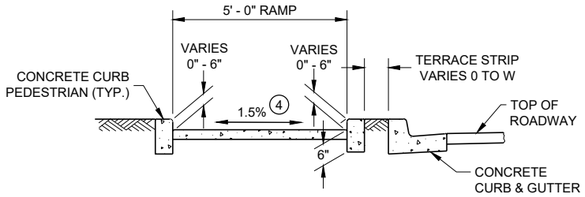


PLAN VIEW

CURB RAMP TYPE 4B

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

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



SECTION C - C FOR TYPE 4B

LEGEND

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

GENERAL NOTES

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

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

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

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

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

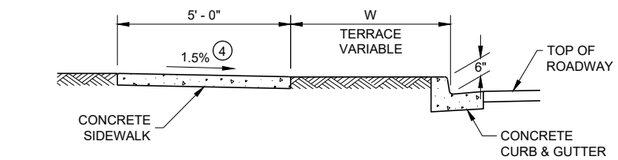
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

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

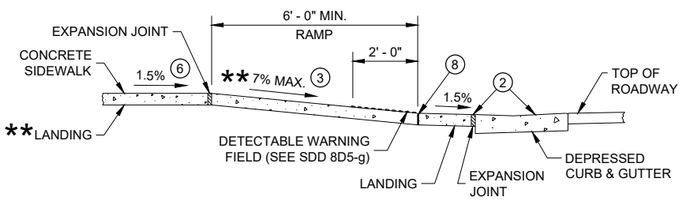
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

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

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



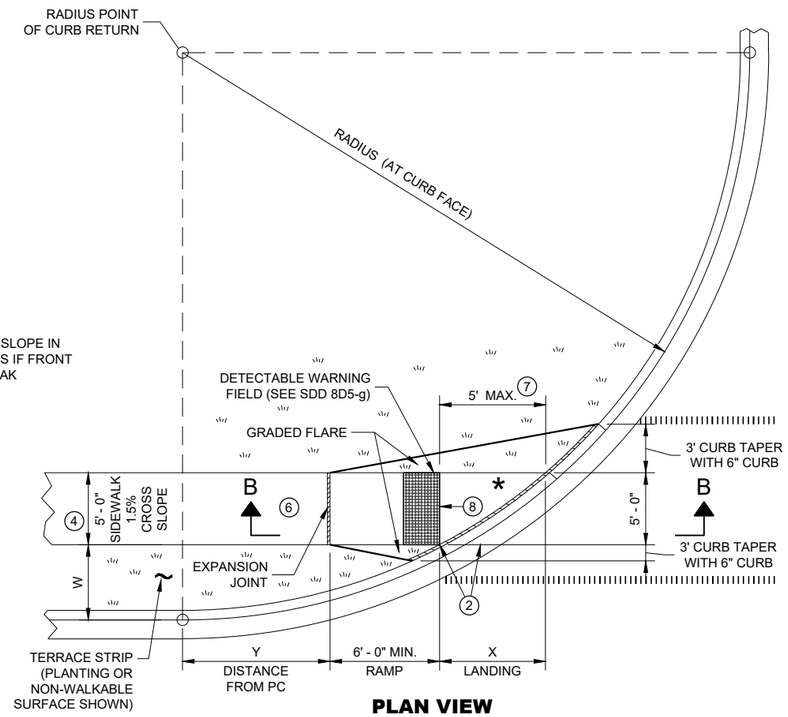
SECTION A - A FOR TYPE 4B



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

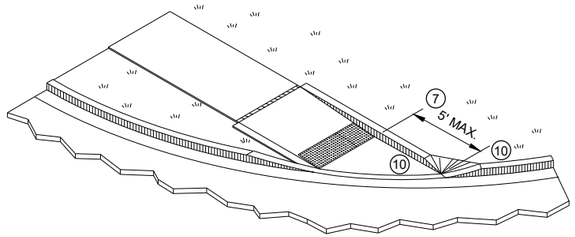
SECTION B - B FOR TYPE 4B AND TYPE 4B1

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

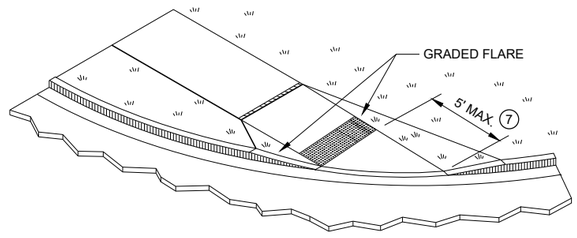


PLAN VIEW

CURB RAMP TYPE 4B1



ISOMETRIC VIEW FOR TYPE 4B



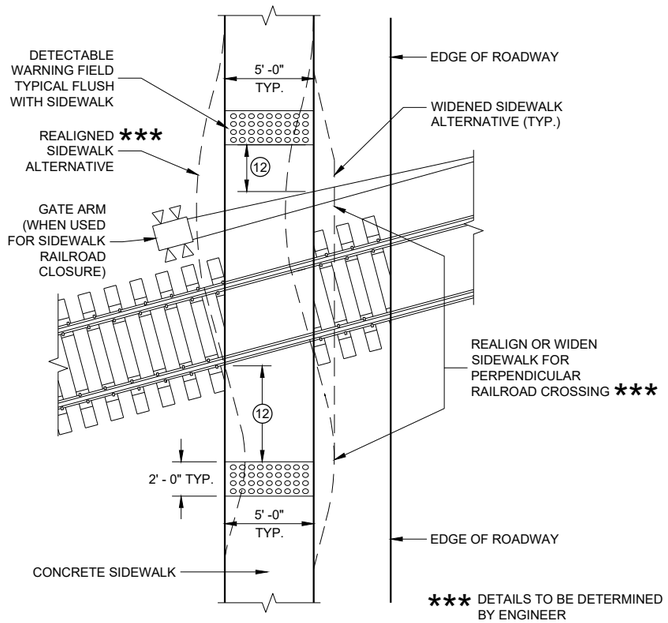
ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS
TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

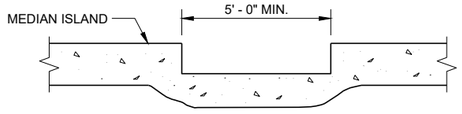
6

SDD 08D05 - 20d

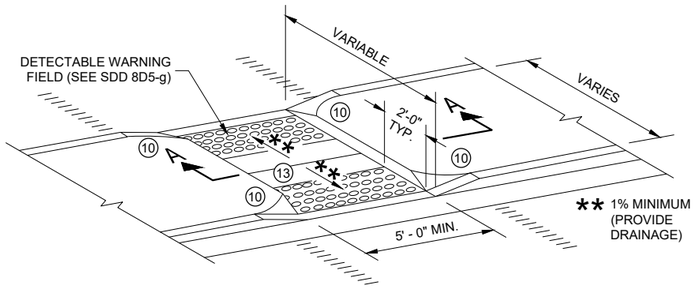


CURB RAMP TYPE 8

DETECTABLE WARNINGS AT RAILROAD CROSSING



SECTION A - A FOR TYPE 5



CURB RAMP TYPE 5

MEDIAN ISLAND NON-ELEVATED PEDESTRIAN CROSSING

GENERAL NOTES

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

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

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

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

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

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

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

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

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

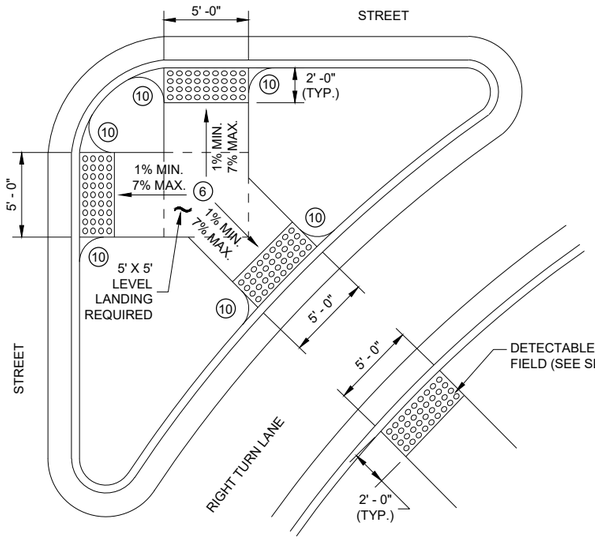
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

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

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

LEGEND

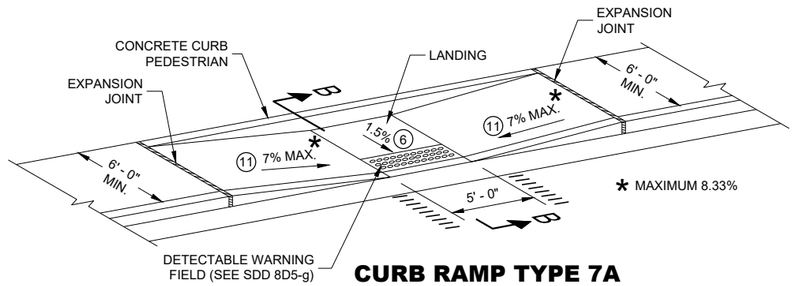
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)



CURB RAMP TYPE 6

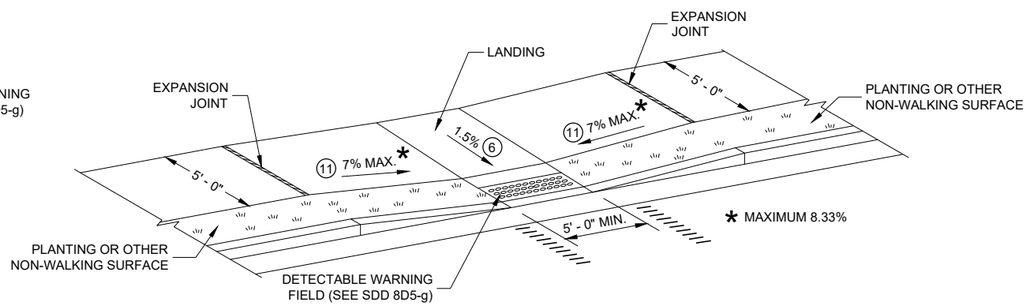
DETECTABLE WARNING AT ISLANDS

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



CURB RAMP TYPE 7A

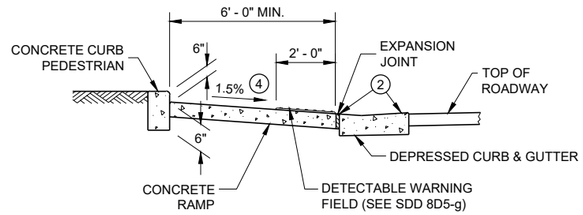
MID BLOCK CROSSING



CURB RAMP TYPE 7B

MID BLOCK CROSSING

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



SECTION B - B FOR TYPE 7A

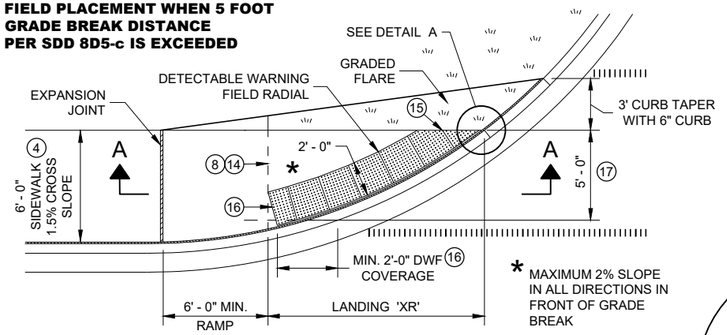
CURB RAMPS TYPE 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20e

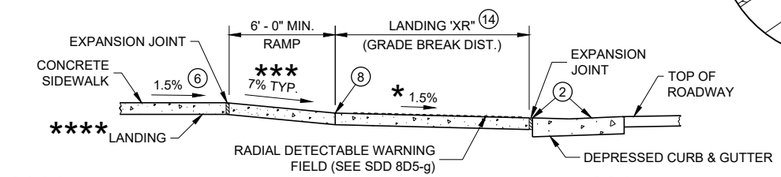
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-c IS EXCEEDED



PLAN VIEW

CURB RAMP TYPE 4A1

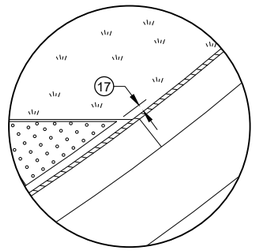
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



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

*** MAXIMUM 8.33%

SECTION A - A FOR TYPE 4A1



DETAIL A

LEGEND

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

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

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

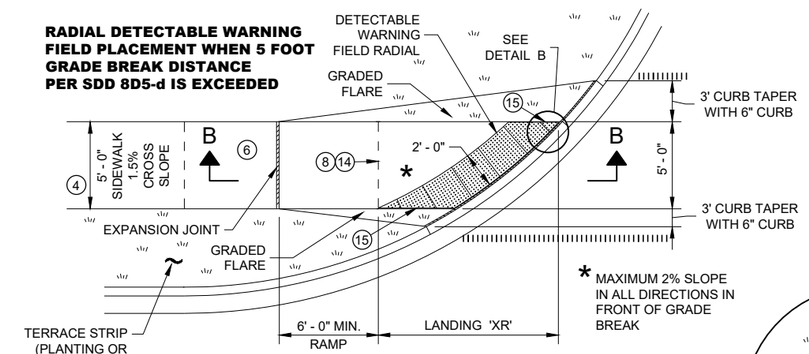
(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION "XR") REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

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

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

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

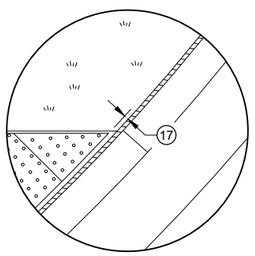
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-d IS EXCEEDED



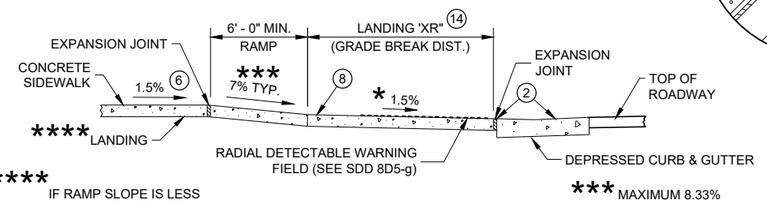
PLAN VIEW

CURB RAMP TYPE 4B1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



DETAIL B

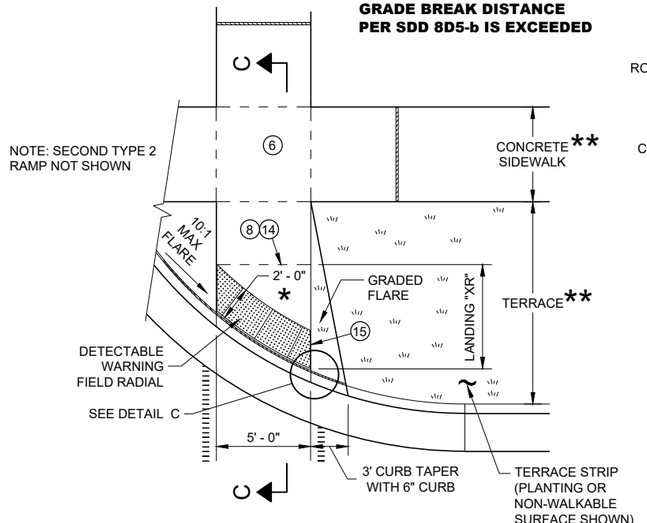


**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION B - B FOR TYPE 4B1

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

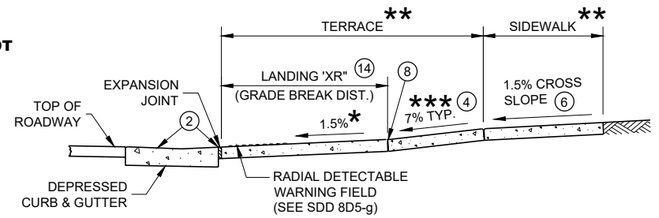


PLAN VIEW

CURB RAMP TYPE 2

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)

(ON LINE WITH SIDEWALK)

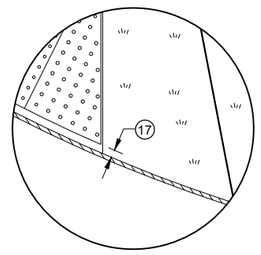


SECTION C - C FOR TYPE 2

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

** WIDTH SHOWN ELSEWHERE IN THE PLANS

*** MAXIMUM 8.33%



DETAIL C

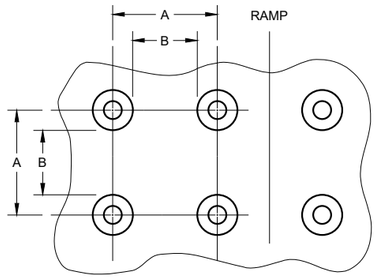
CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

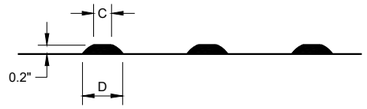
SDD 08D05 - 20f

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

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

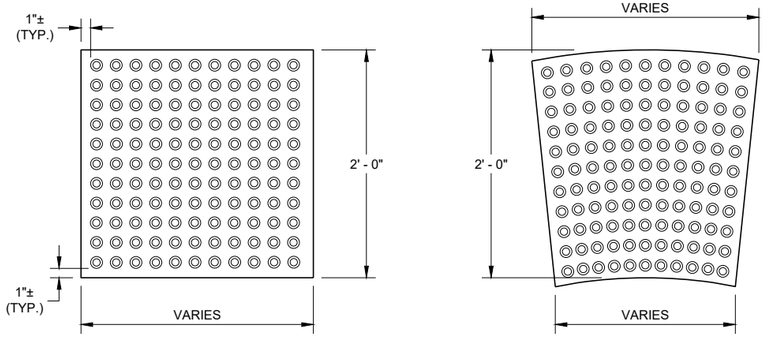


PLAN VIEW



ELEVATION VIEW

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



RECTANGULAR PLATES

RADIAL PLATES

PLAN VIEW
DETECTABLE WARNING FIELDS (TYPICAL)

GENERAL NOTES

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

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

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

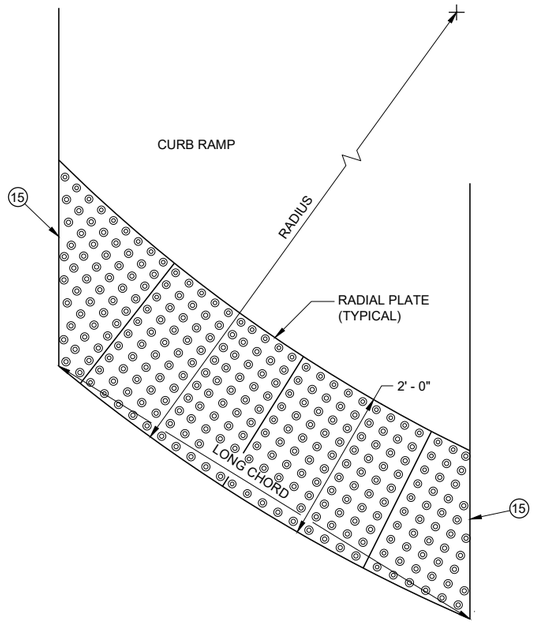
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

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

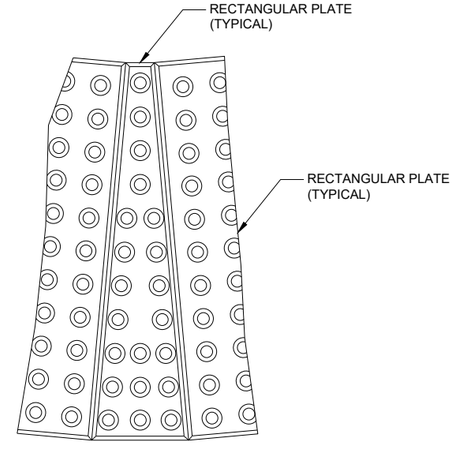
REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

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

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



PLAN VIEW
RADIAL DETECTABLE WARNING FIELD ATTRIBUTES



PLAN VIEW
RADIAL WEDGE PLATE CONNECTION DETAIL

CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

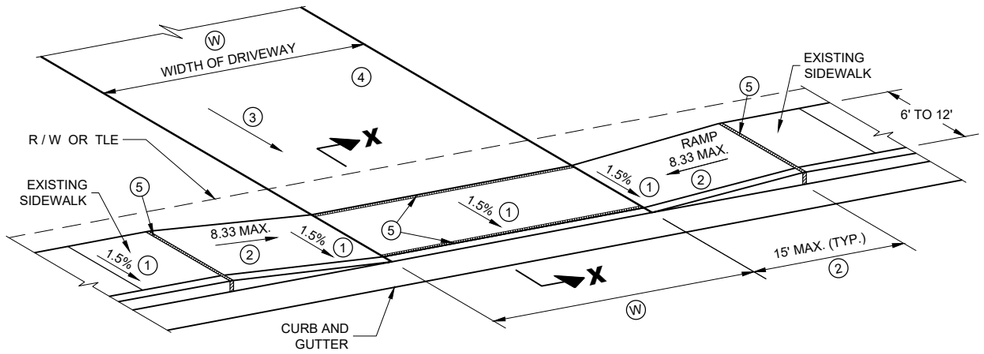
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

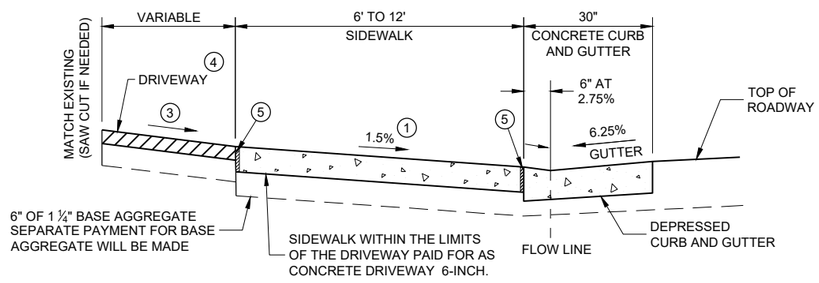
FHWA

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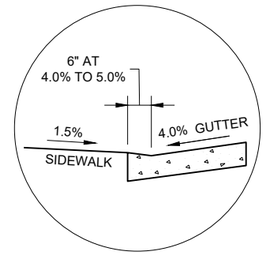
SDD 08D05 - 20g



TYPE X
SIDEWALK ABUTS CURB AND GUTTER
TERRACE VARIES 0 TO 3 FEET



SECTION X - X



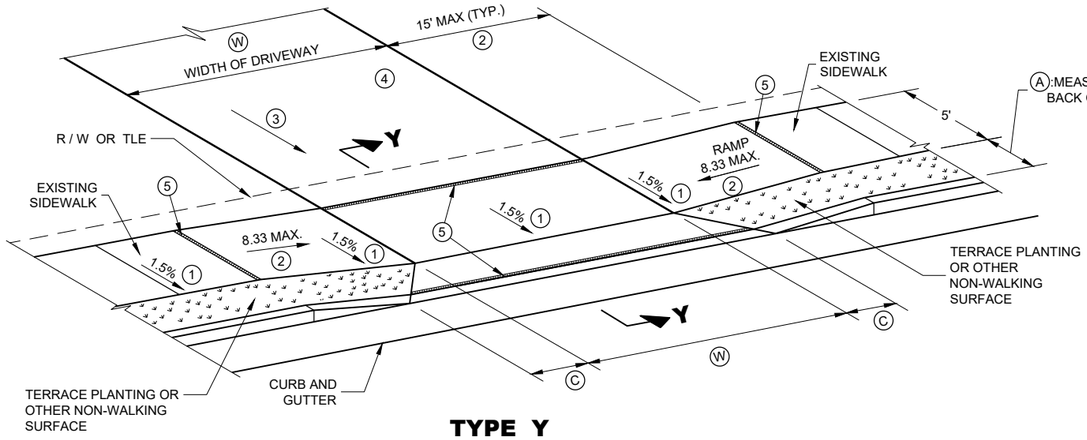
SECTION X - X
4% GUTTER SLOPE

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

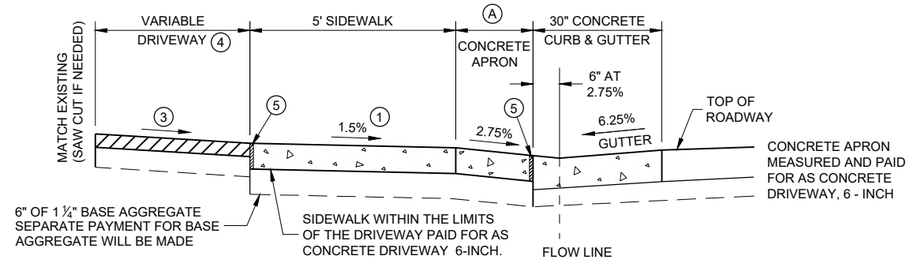
16' MIN. - 35' MAX. COMMERCIAL (CE)

TABLE Y

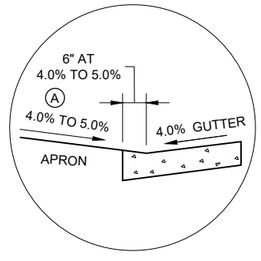
Ⓐ FEET	Ⓒ FEET
3.5'	2.0'
4.5'	3.0'
5.5'	3.5'



TYPE Y
SIDEWALK WITH NARROWER TERRACE
TERRACE VARIES 4 TO 6 FEET



NOTE: SIDEWALK MY BE DEPRESSED IN DRIVEWAY AREAS



SECTION Y - Y
4% GUTTER SLOPE

SECTION Y - Y
DRIVEWAY DETAIL WITH CONCRETE CURB AND GUTTER
(URBAN AND SUBURBAN)

GENERAL NOTES

PROVIDE CONSTRUCTION JOINTS ALONG THE CENTER OF THE CONCRETE FOR DRIVEWAYS UNDER 20 FEET IN WIDTH AND AT THE THIRD POINTS OVER 20 FEET IN WIDTH.

Ⓦ IS SHOWN ON PLAN AND PROFILE SHEETS.

OFFSETS, ELEVATIONS, AND PERCENT GRADE ARE SHOWN ON THE CROSS SECTIONS.

① CONSTRUCTION TOLERANCE OF 0.5%± FOR SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

② THE SIDEWALK RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAXIMUM LENGTH, THE RUNNING SLOPE OF THE SIDEWALK SHALL BE AS FLAT AS FEASIBLE AND NOT EXCEED THE LONGITUDINAL GRADE OF THE ROADWAY. SLOPE SIDEWALK RAMP TOWARD APRON AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

③ DRIVEWAY SLOPES: DESIRABLE MAXIMUM
- 10.5% UP AWAY FROM SIDEWALK (SAG)
- 8.5% DOWN AWAY FROM SIDEWALK (CREST)
- ABSOLUTE MAXIMUM 15% FOR BOTH CREST AND SAG

④ DRIVEWAY TYPES
- 6-INCH CONCRETE DRIVEWAY PAVEMENT OVER 6-INCH BASE AGGREGATE
- 2-INCH TO 3-INCH ASPHALTIC SURFACE OVER 6-INCH BASE AGGREGATE
- 6-INCH BASE AGGREGATE (MAY BE INCREASED FOR CLAY SUBGRADES.)

⑤ ½" EXPANSION JOINT FILLER

DRIVEWAY AND SIDEWALK RAMPS TYPES X AND Y

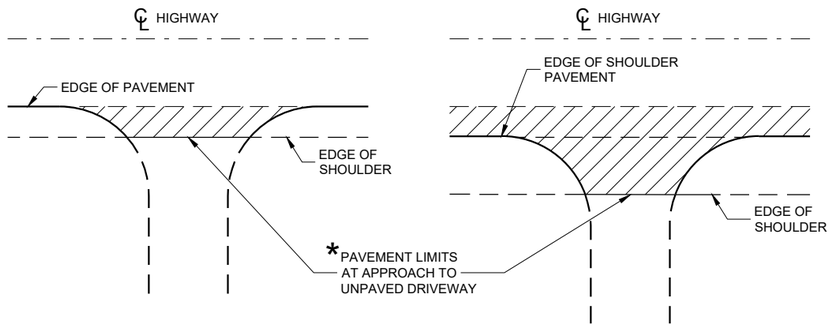
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2022
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA

SDD 08D18 - 03

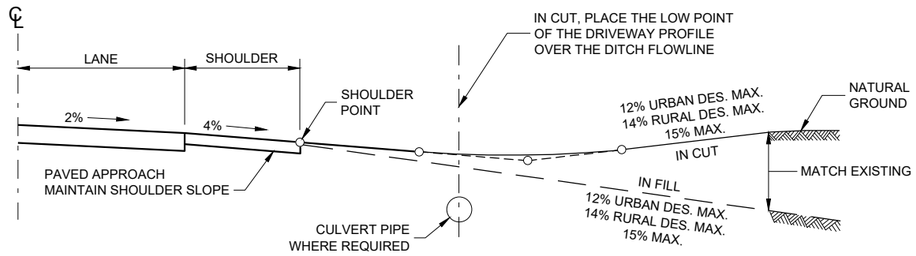
SDD 08D18 - 03



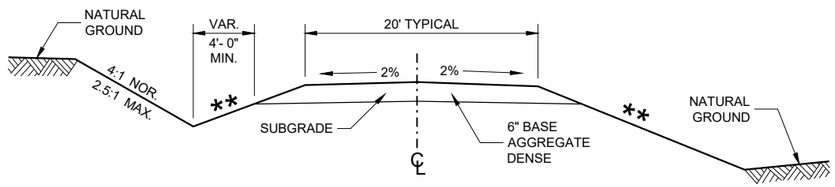
PLAN VIEW
(UNPAVED SHOULDER ON HIGHWAY)

PLAN VIEW
(PAVED SHOULDER ON HIGHWAY)

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



TYPICAL DRIVEWAY PROFILES

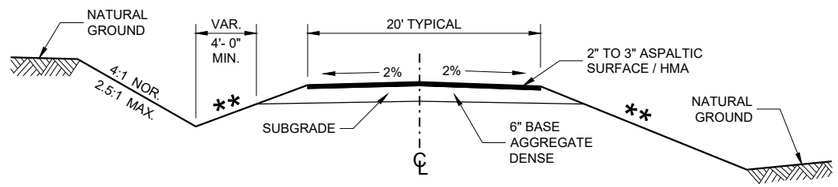


IN CUT **IN FILL**

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE AGGREGATE SURFACE

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

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



IN CUT **IN FILL**

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE ASPHALTIC SURFACE

6

6

SDD 08D21 - 01

SDD 08D21 - 01

DRIVEWAYS WITHOUT CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

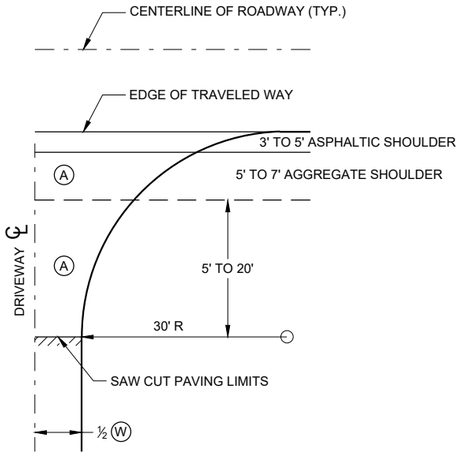
APPROVED
December 2017
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE
UNIT SUPERVISOR

FHWA

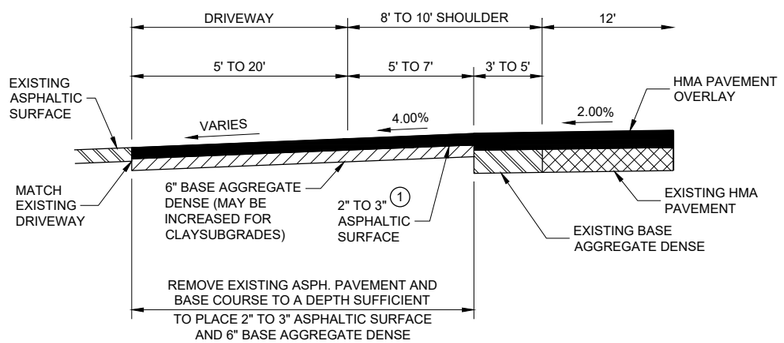
GENERAL NOTES

(1) DESIGN WILL DETERMINE FINAL DRIVEWAY ASPHALTIC THICKNESS BASED ON TYPE OF USAGE AND LOADINGS.



PLAN VIEW

HALF SECTION



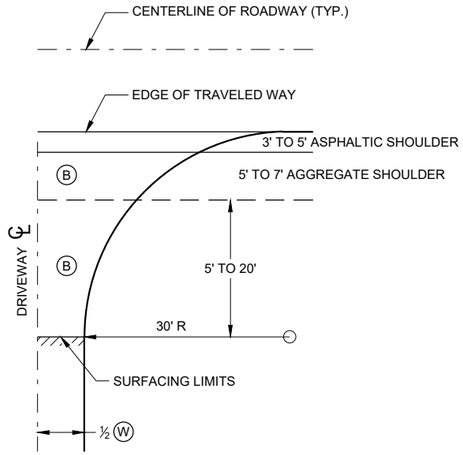
PROFILE VIEW

RURAL ENTRANCE
WITH ASPHALTIC SURFACE
RESURFACING PROJECTS

(A) : PAID FOR AS ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES. (TON)

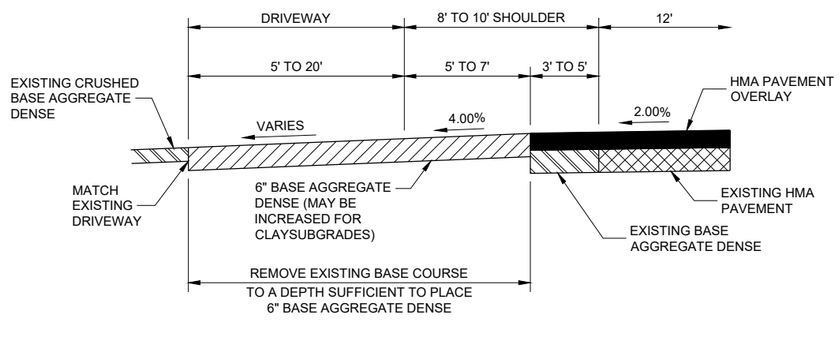
(B) : PAID FOR AS BASE AGGREGATE DENSE 1 ¼" (TON)

(W) : DRIVEWAY WIDTH 16' MIN. - 24' MAX.



PLAN VIEW

HALF SECTION



PROFILE VIEW

RURAL ENTRANCE
WITH AGGREGATE SURFACE
6" BASE AGGREGATE DENSE
RESURFACING PROJECTS

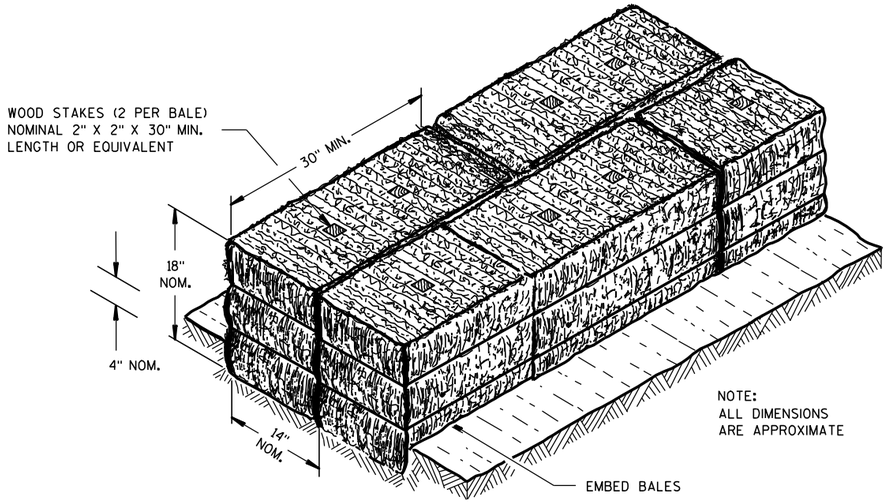
DRIVEWAYS WITHOUT CURB AND GUTTER RESURFACING PROJECTS RURAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

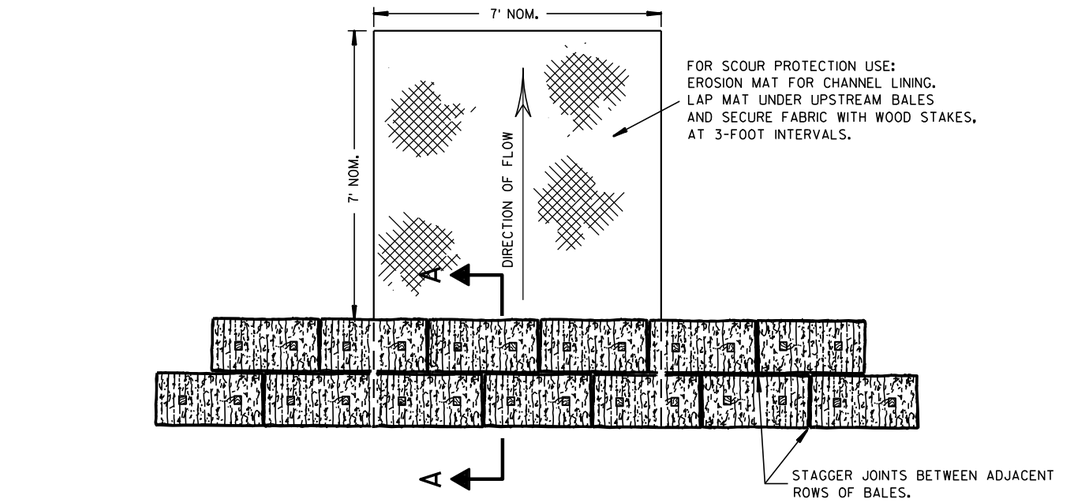
APPROVED
December 2016 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER
FHWA

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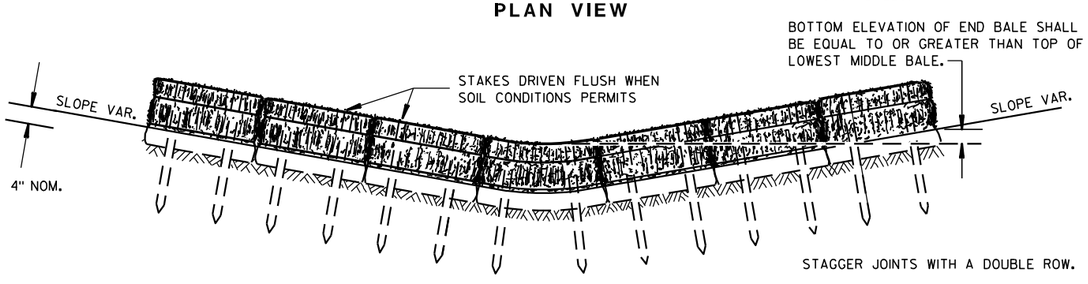
SDD 08D22 - 01



SECTION A-A



PLAN VIEW



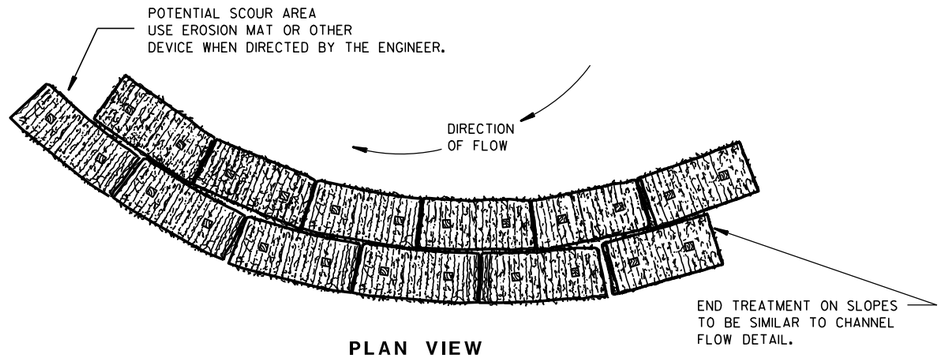
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

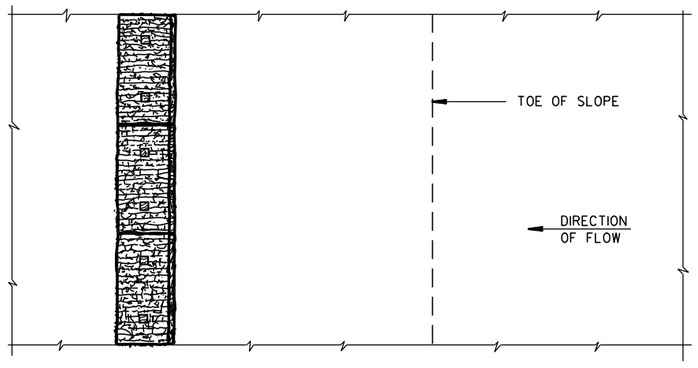
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

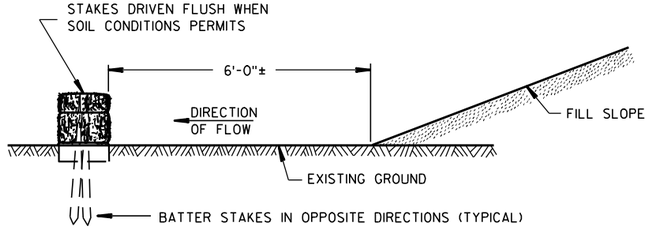


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

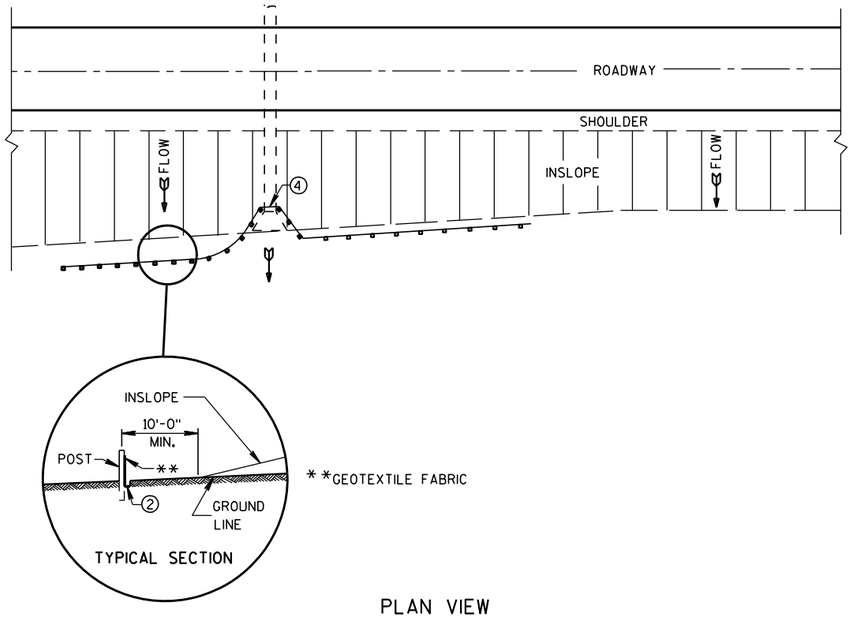
APPROVED
6/04/02 DATE
/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 E 8-3

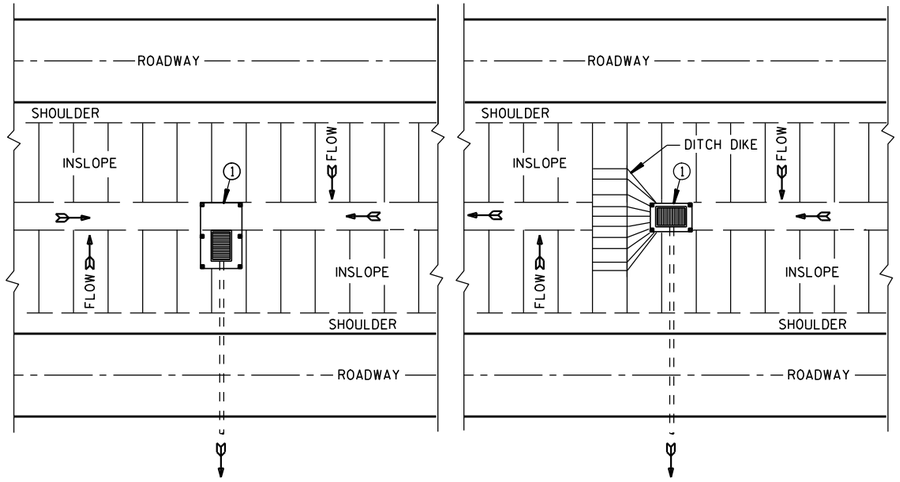
6

S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



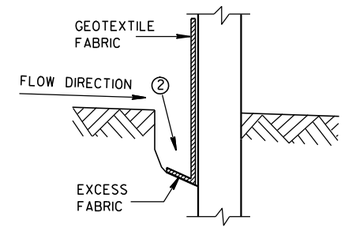
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

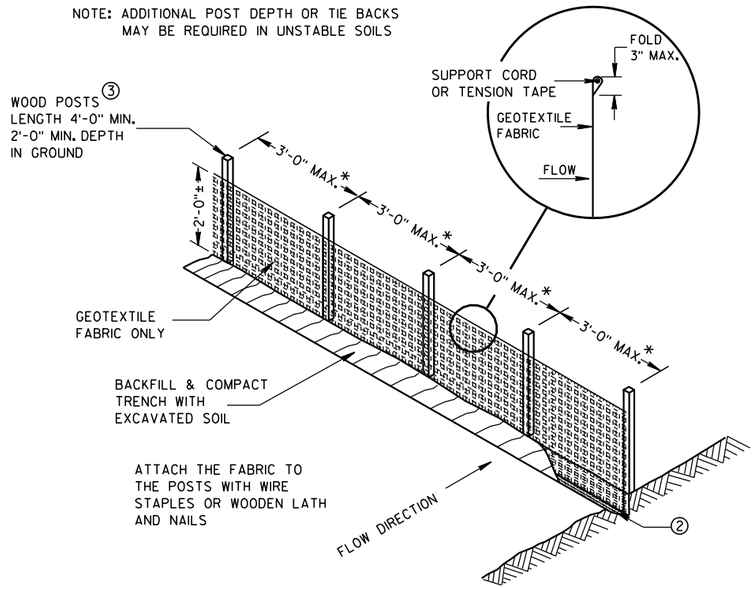
GENERAL NOTES

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

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

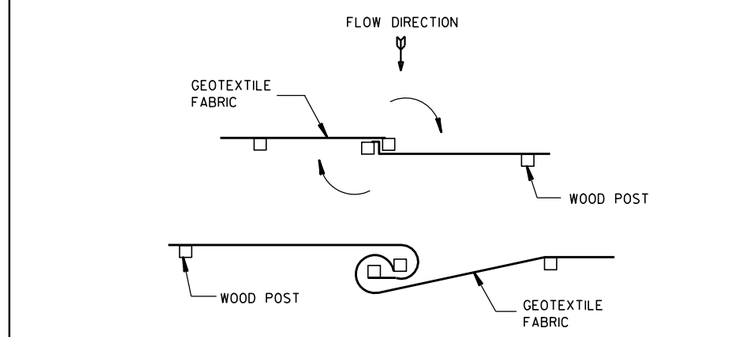


TRENCH DETAIL

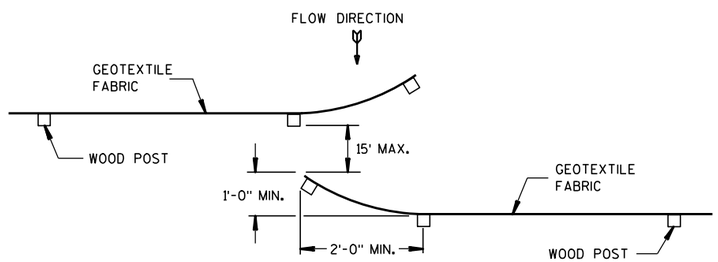


*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE

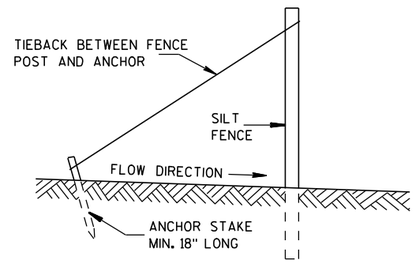


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

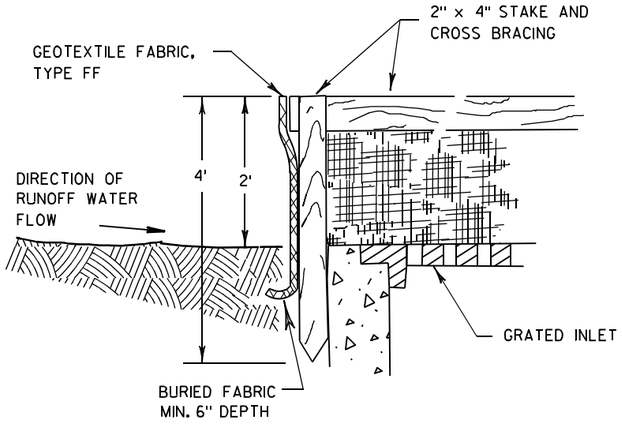
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

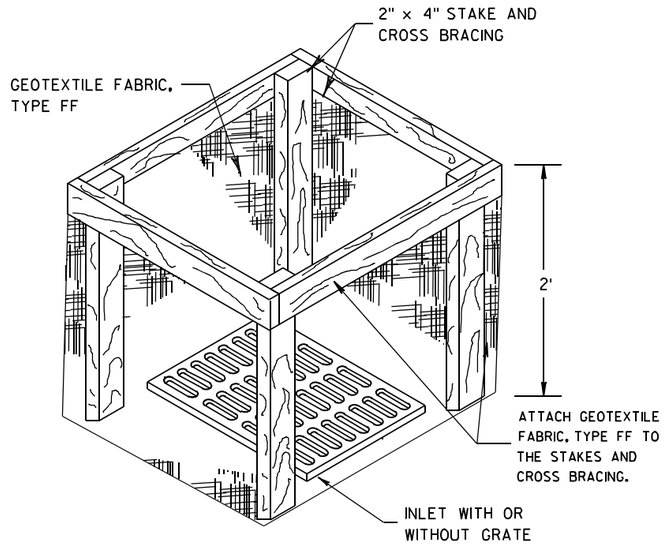
6

S.D.D. 8 E 9-6

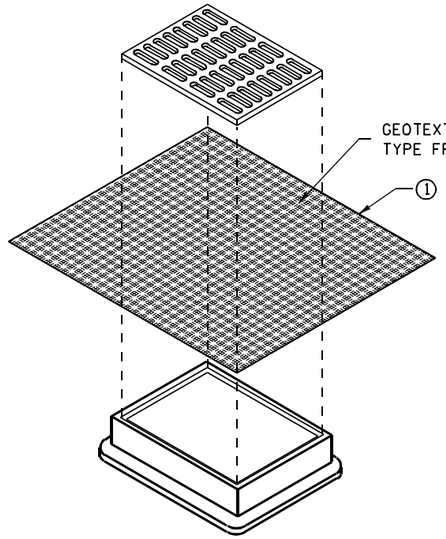
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S.D.D. 8 E 9-6



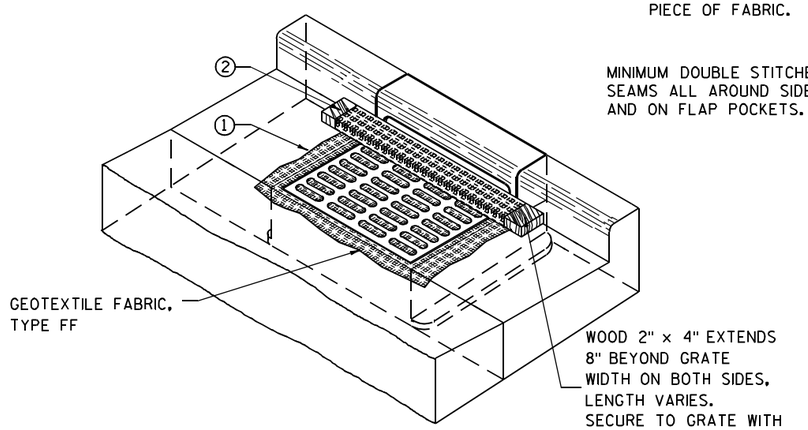


INLET PROTECTION, TYPE A

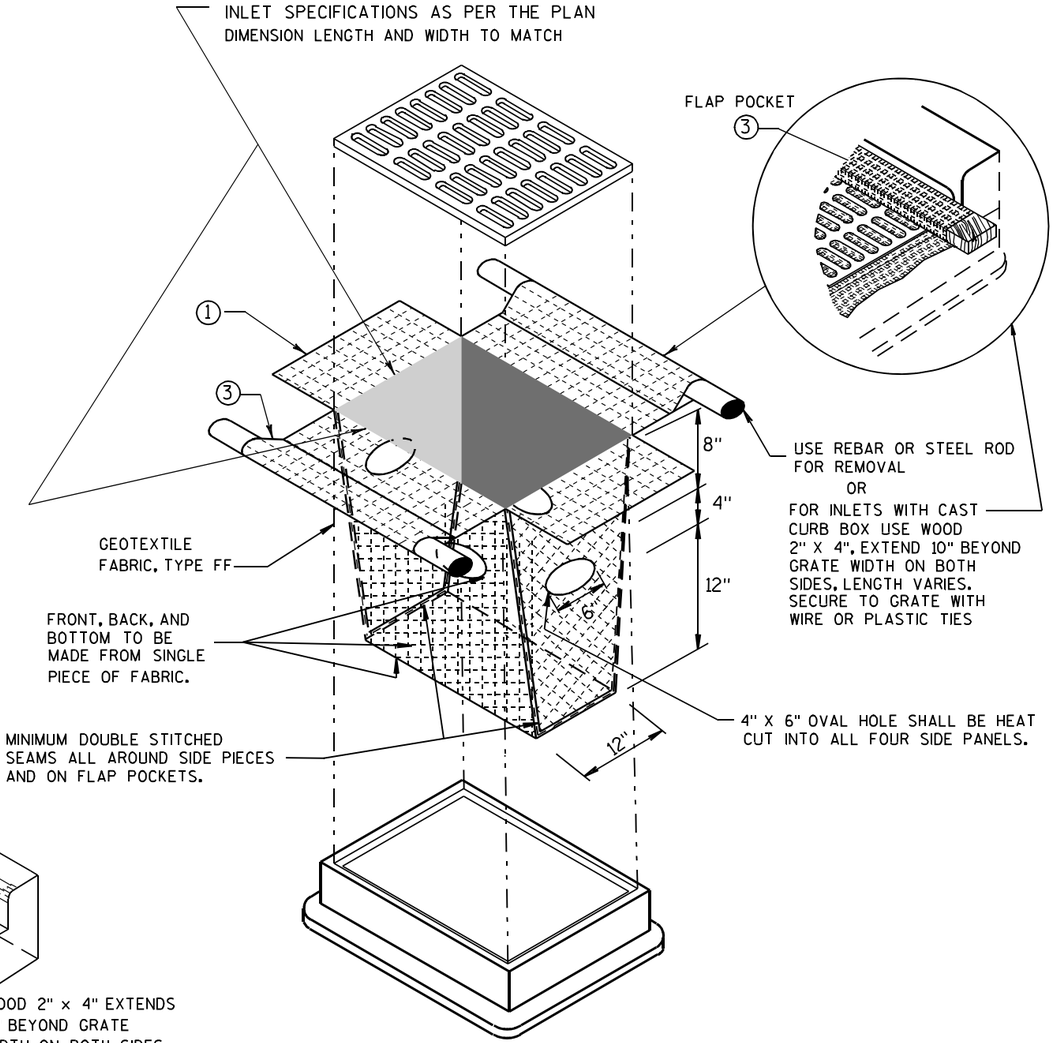


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

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



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

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

GENERAL NOTES

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

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

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

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

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

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

INSTALLATION NOTES

TYPE B & C

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

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

TYPE D

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

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

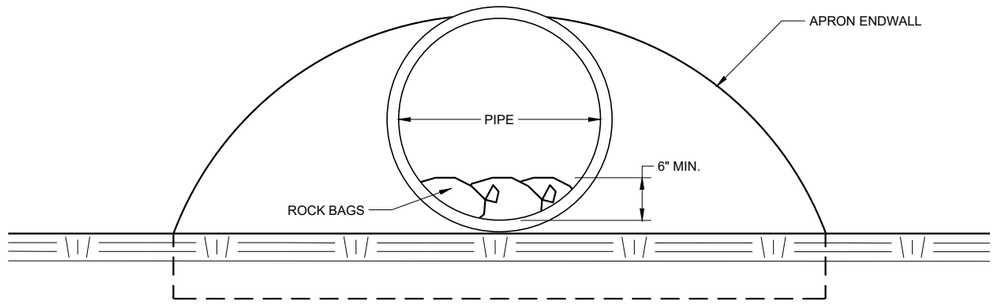
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE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

INLET PROTECTION
TYPE A, B, C, AND D

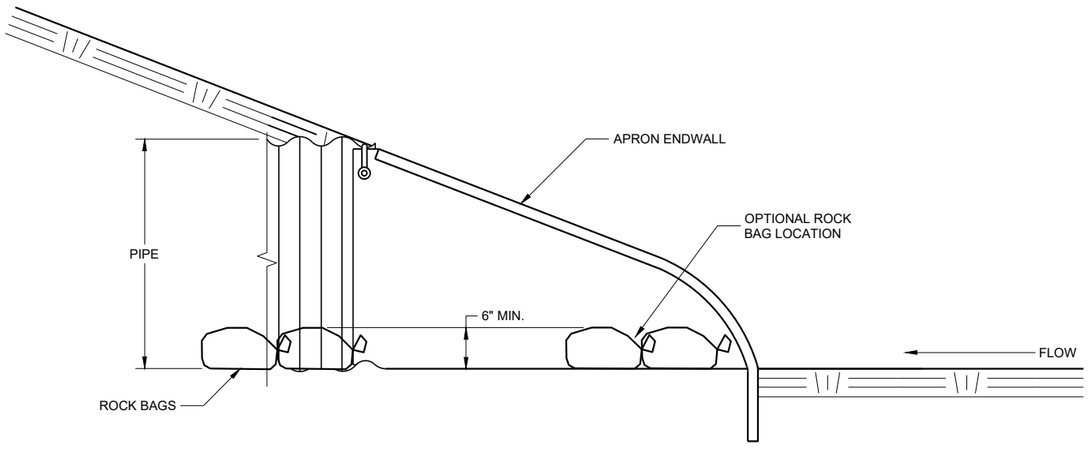
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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



END VIEW



SIDE VIEW

CULVERT PIPE CHECK

(INSTALL ON INLET END ONLY)

CULVERT PIPE CHECK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

FHWA

6

SDD 08E15 - 01

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SDD 08E15 - 01

METAL APRON ENDWALLS

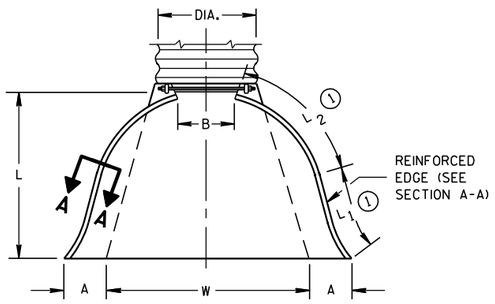
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

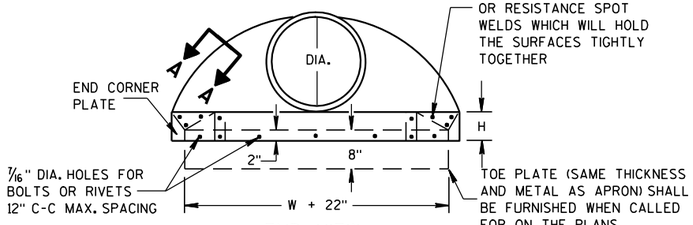
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

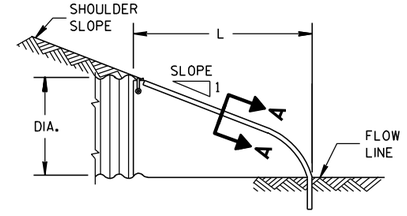
*MINIMUM
**MAXIMUM



PLAN VIEW

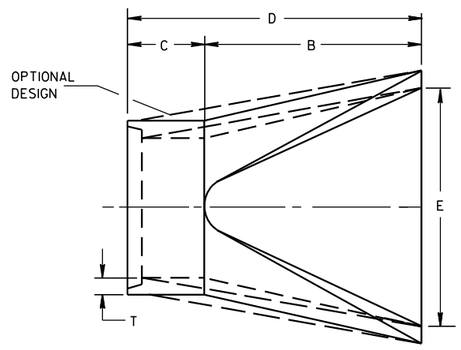


END VIEW

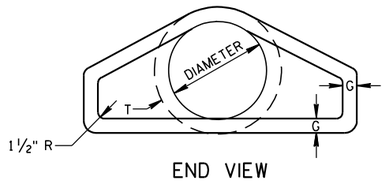


SIDE ELEVATION

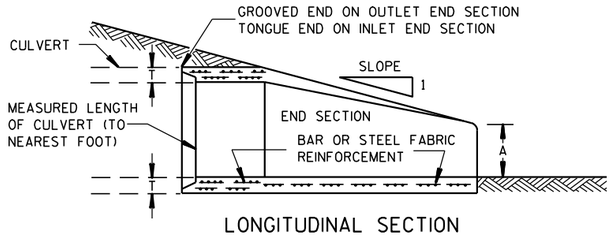
METAL ENDWALLS



PLAN

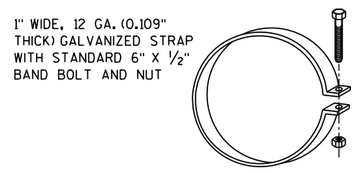


END VIEW



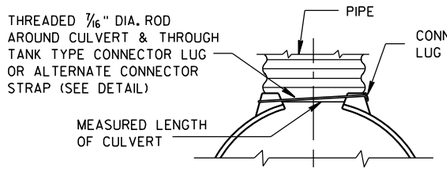
LONGITUDINAL SECTION

CONCRETE ENDWALLS

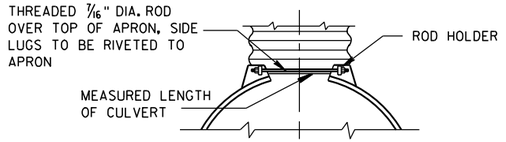


ALTERNATE FOR TYPE 1 CONNECTION

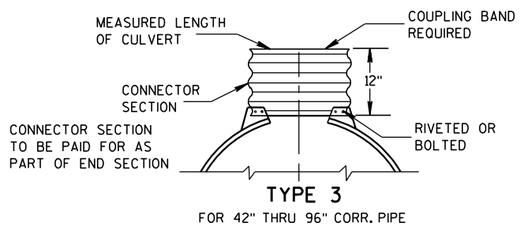
END SECTION CONNECTOR STRAP



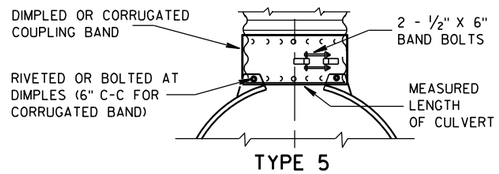
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

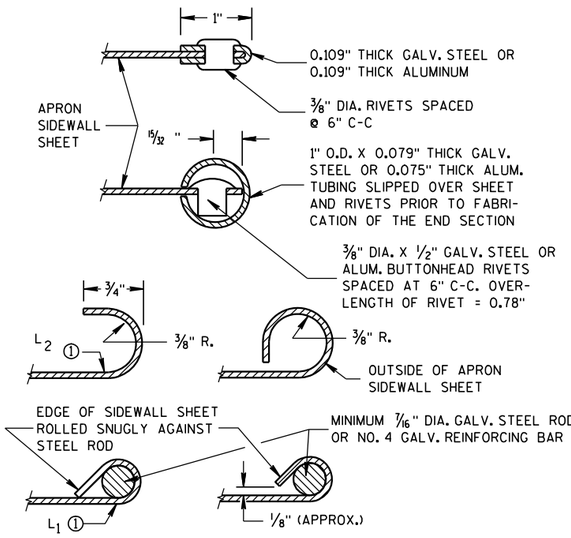
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

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

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

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

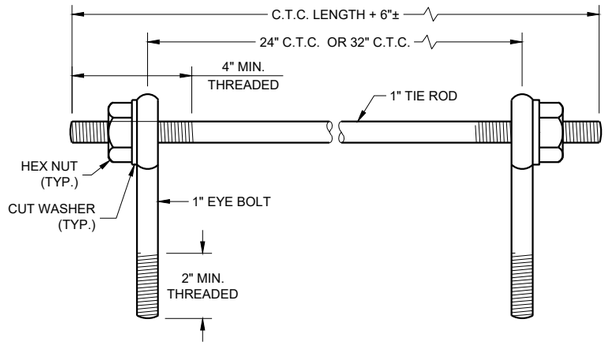
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

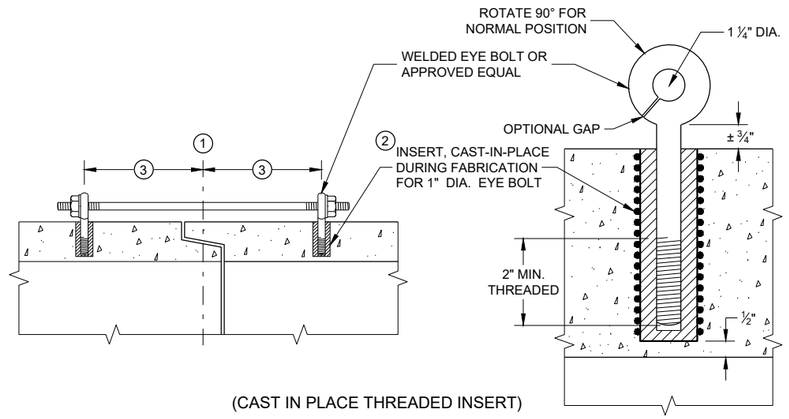
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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



EYE BOLTS AND TIE ROD



(CAST IN PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

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

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

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

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

(1) CENTER LINE OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

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

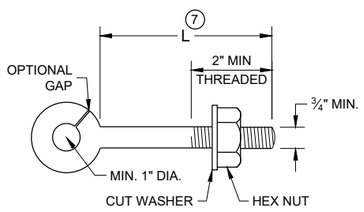
(3) HOLES SHALL BE CAST-IN-PLACE OR DRILLED PER THE APPLICABLE DETAIL, AND EQUAL DISTANCE FROM THE CENTERLINE OF THE JOINT.

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

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

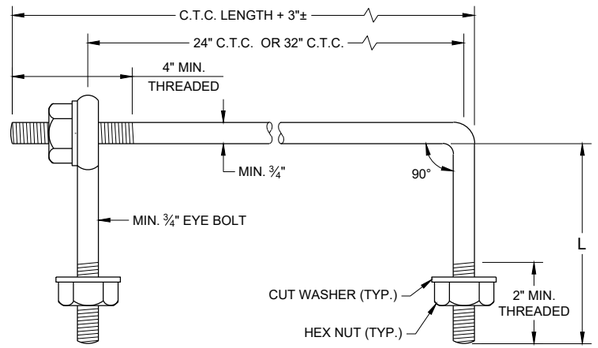
(6) LENGTH ADEQUATE TO EXTEND TO WITHIN ½ INCH OF THE INNER SURFACE OF THE PIPE.

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

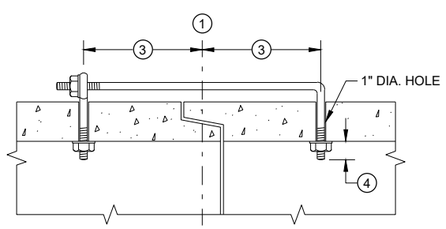


EYE BOLT (7)

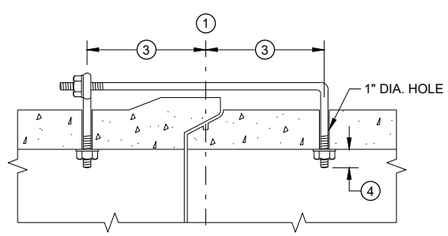
NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" OR 38" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD



(TONGUE AND GROOVE PIPE)



(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

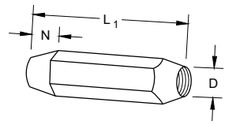
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

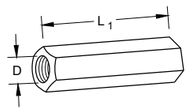
ADJUSTABLE TIE ROD TABLE

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

DIMENSIONS SHOWN ARE IN INCHES



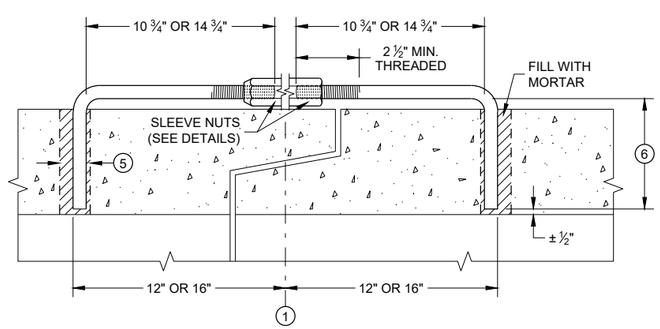
TAPERED



PLAIN

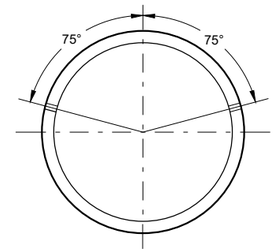
RIGHT AND LEFT THREADS

SLEEVE NUTS



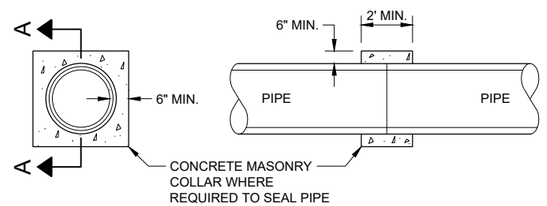
LONGITUDINAL SECTION

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



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

TRANSVERSE SECTION



SECTION A - A

CONCRETE COLLAR DETAIL

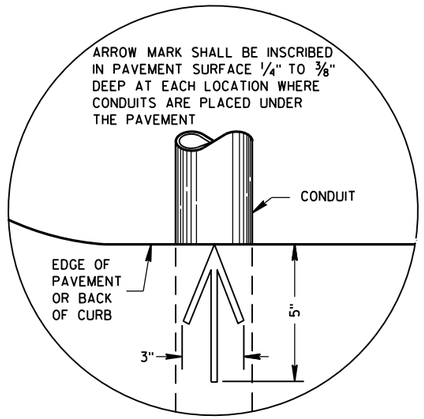
JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

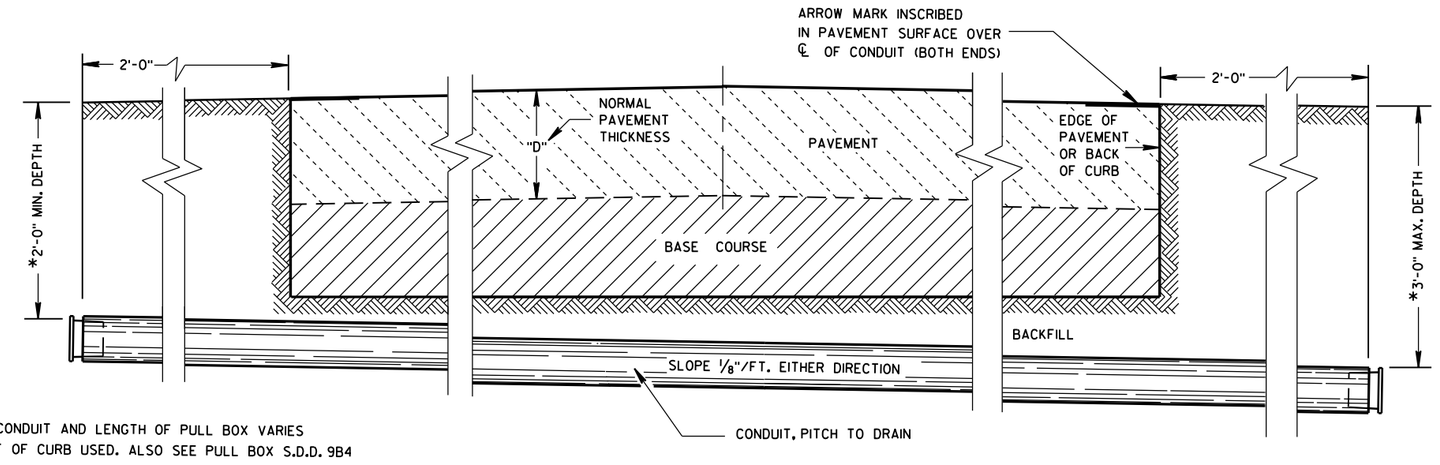
FHWA

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SDD 08F04 - 08



PLAN VIEW

ARROW MARK



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

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

GENERAL NOTES

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

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

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

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

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

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

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

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

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

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

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

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

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

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

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

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

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

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

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

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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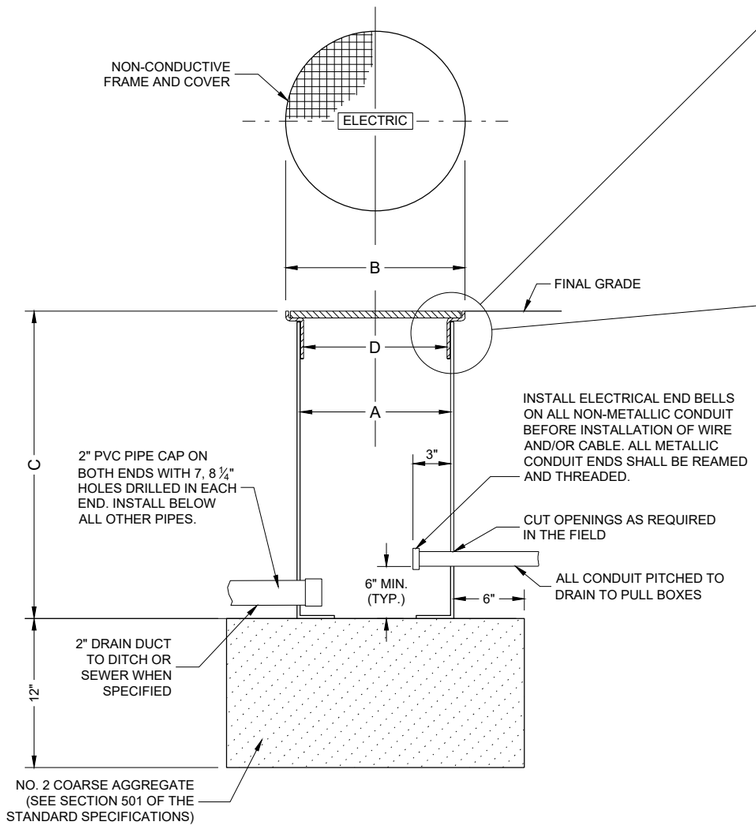
S.D.D. 9 B 2-10

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

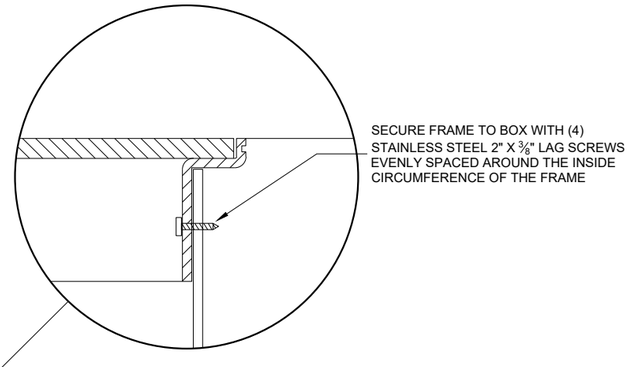
DIMENSION IN INCHES		NON- CONDUCTIVE PULL BOX	
BOX DIAMETER ** (INSIDE)	A	24	24
BOX OVERALL OUTSIDE DIAMETER	B	27	27
BOX LENGTH	C	36	42
FRAME OPENING	D	22 ½	22 ½
WEIGHT IN POUNDS *			
COVER		50	50
BOX ONLY		75	85

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

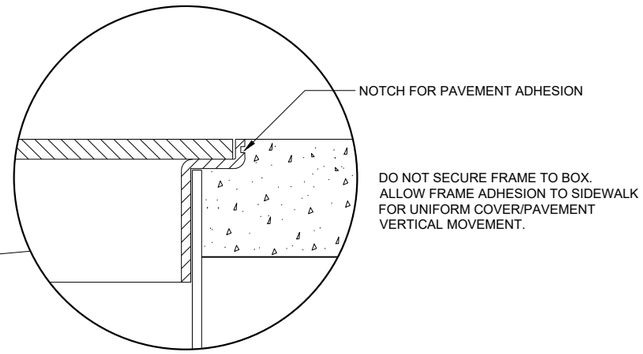
** DIAMETER VARIES FROM TOP TO BOTTOM WITH THE DIAMETER LARGER AT THE BOTTOM TO PREVENT FROST HEAVE.



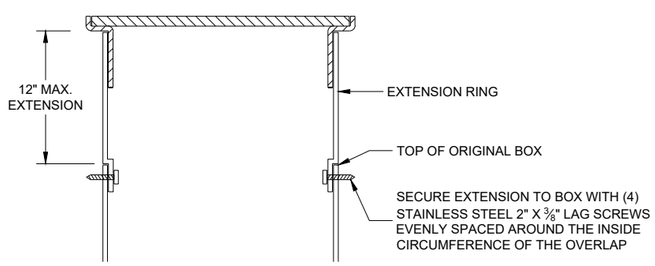
NON-CONDUCTIVE PULL BOX



INSTALLED IN SOD OR CRUSHED AGGREGATE



INSTALLED IN SIDEWALK



BOX EXTENSION

GENERAL NOTES

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

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

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

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

COVER SHALL BE MAGNETICALLY LOCATABLE.

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

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

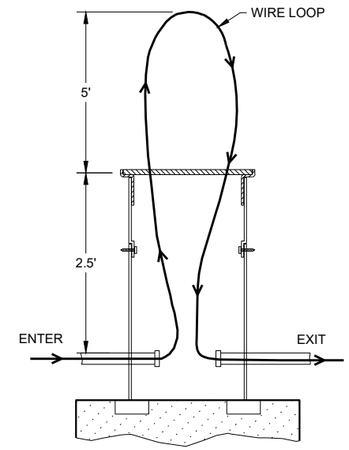
THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

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

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

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

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



MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX

6

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SDD 09B16 - 02

SDD 09B16 - 02

PULL BOXES NON-CONDUCTIVE

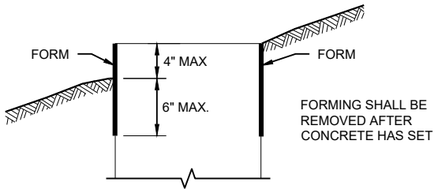
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

FHWA

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



FORMING DETAIL

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

GENERAL NOTES

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

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

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

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS

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

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

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

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

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

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

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

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

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

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

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

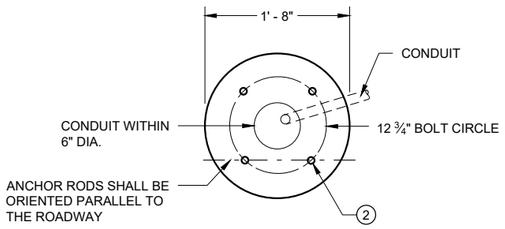
WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

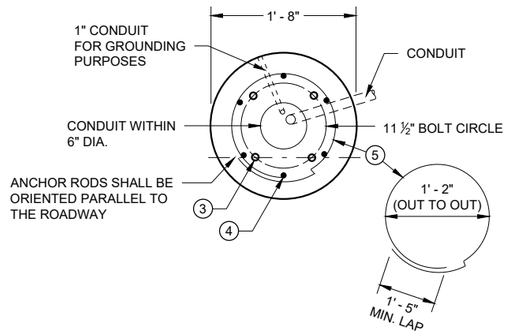
WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

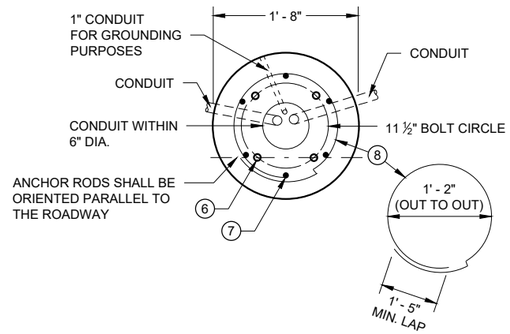
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

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

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







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

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

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

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

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

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

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

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

9 EXOTHERMIC CONNECTION TO EUIPMENT GROUNDING CONDUCTOR

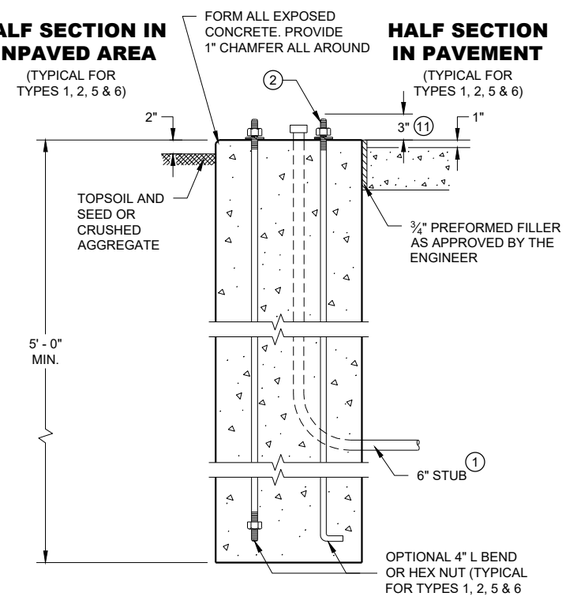
10 ⅝" DIA. X 8' -0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED

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

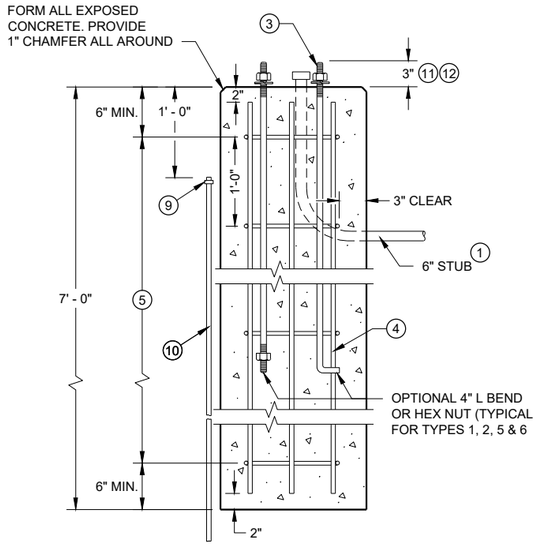
12 FOR NON - BREAKAWAY INSTALLATIONS, 4 ½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

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

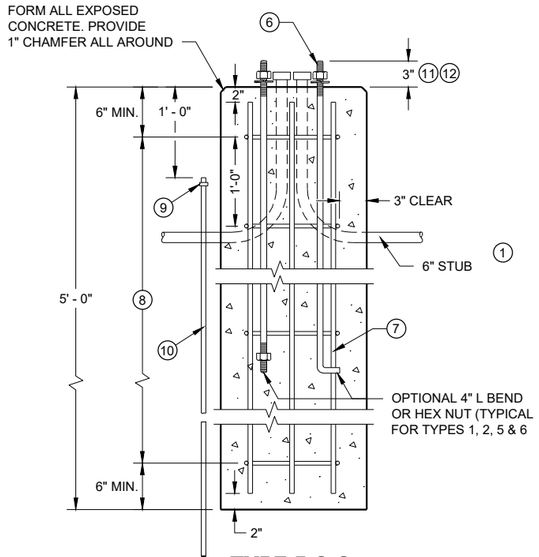
HALF SECTION IN PAVEMENT
(TYPICAL FOR TYPES 1, 2, 5 & 6)



TYPE 1



TYPE 2



TYPE 5 & 6

CONCRETE BASES

CONCRETE BASES TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 161

FHWA

GENERAL NOTES

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

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

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

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

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

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

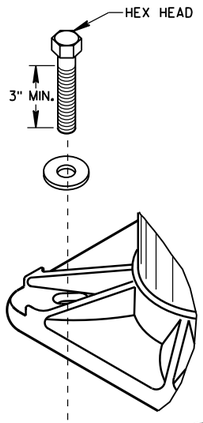
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

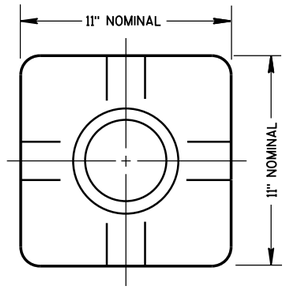
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

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

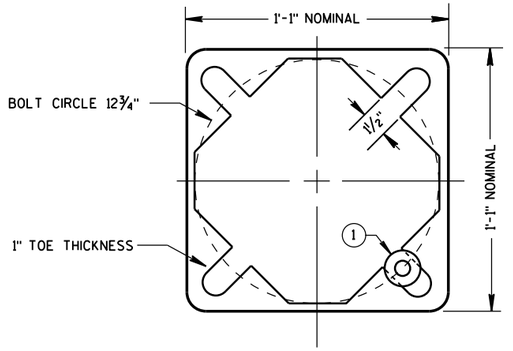
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

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

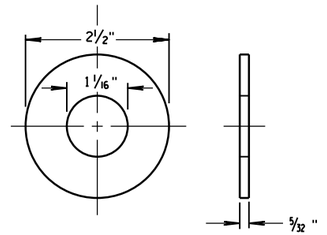




TOP VIEW
(PEDESTAL BASE)

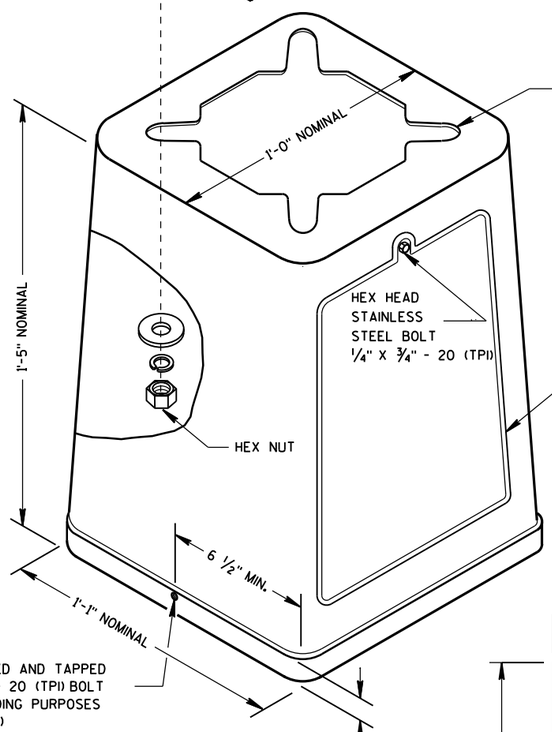


BOTTOM VIEW
(PEDESTAL BASE)

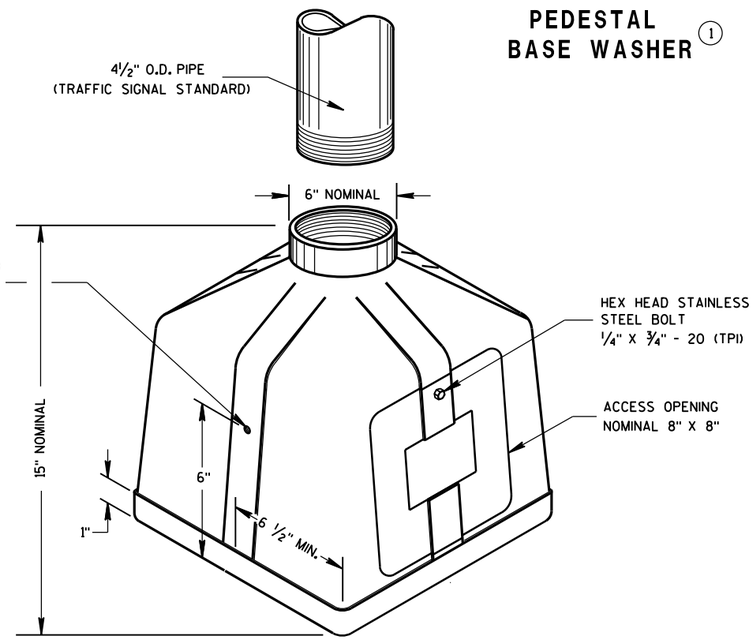


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

PEDESTAL BASE WASHER (1)

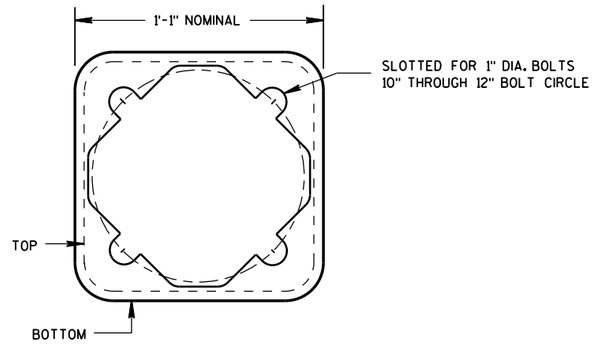


ISOMETRIC VIEW

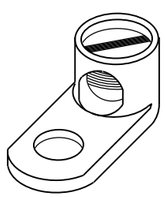


ISOMETRIC VIEW

PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)

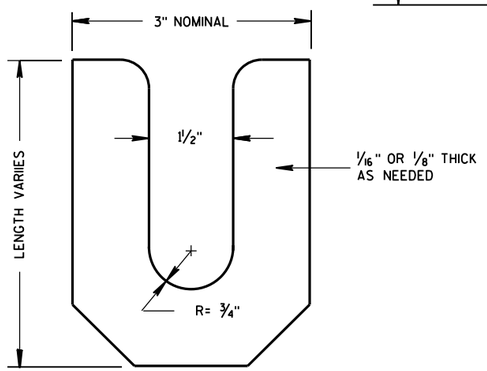


TYPICAL MECHANICAL CONNECTOR LUG

TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE

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



LEVELING SHIM

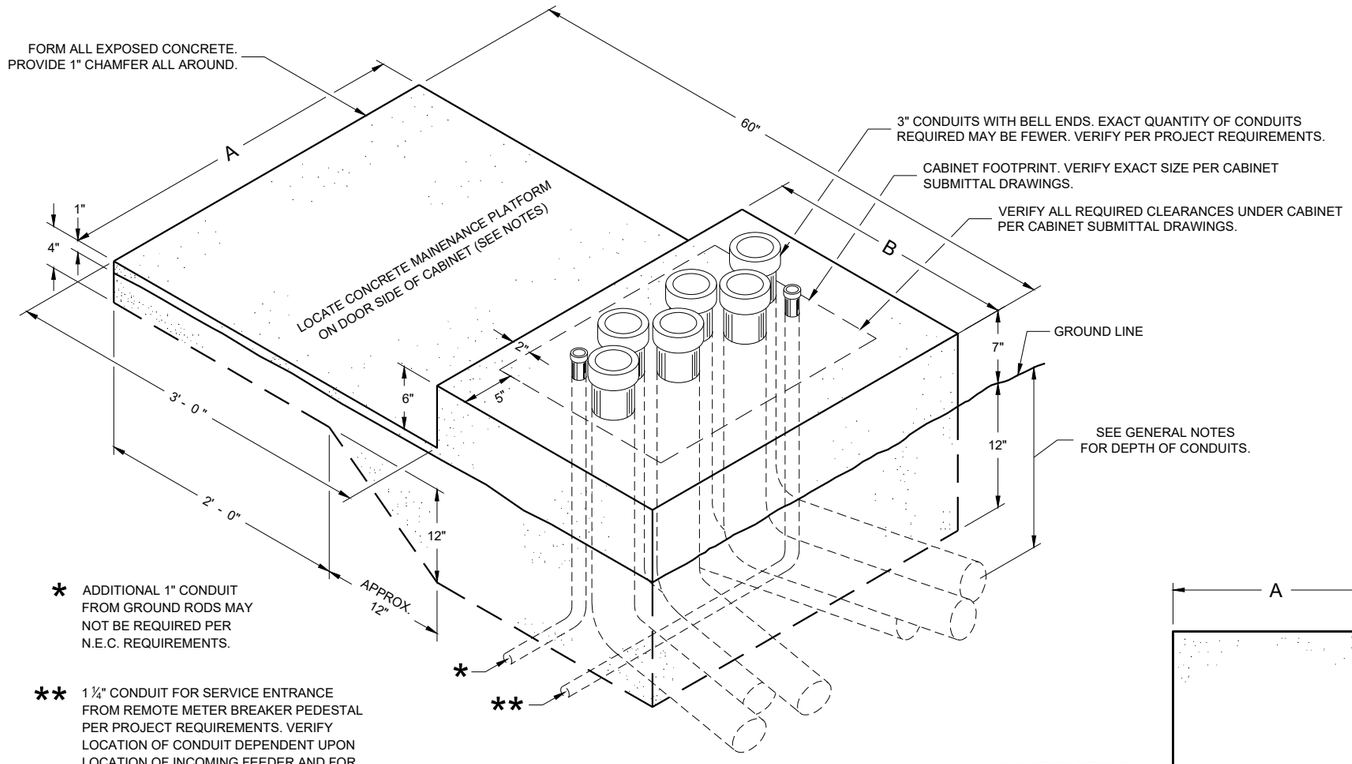
TRANSFORMER/PEDESTAL BASES

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DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
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* ADDITIONAL 1" CONDUIT FROM GROUND RODS MAY NOT BE REQUIRED PER N.E.C. REQUIREMENTS.

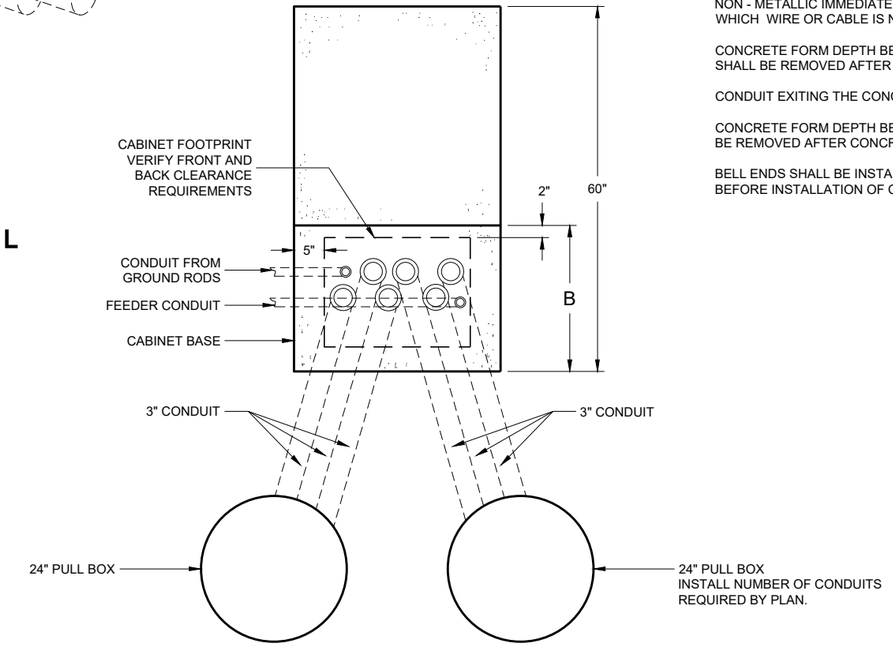
** 1 ¼" CONDUIT FOR SERVICE ENTRANCE FROM REMOTE METER BREAKER PEDESTAL PER PROJECT REQUIREMENTS. VERIFY LOCATION OF CONDUIT DEPENDENT UPON LOCATION OF INCOMING FEEDER AND FOR EASE OF CONNECTION TO LOAD CENTER.

ISOMETRIC VIEW

CONCRETE CONTROL CABINET BASE, TYPE L

(C.Y. CONCRETE = APPROX. 0.4)

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



PLAN VIEW

CONCRETE CONTROL CABINET BASE, TYPE L

GENERAL NOTES

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

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

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

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

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

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

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

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

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

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND LEVEL.

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

MINIMUM BENDING RADIUS OF CONDUIT EQUALS 6 TIMES THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

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

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

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

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

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

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

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

CONCRETE CONTROL CABINET BASE, TYPE L

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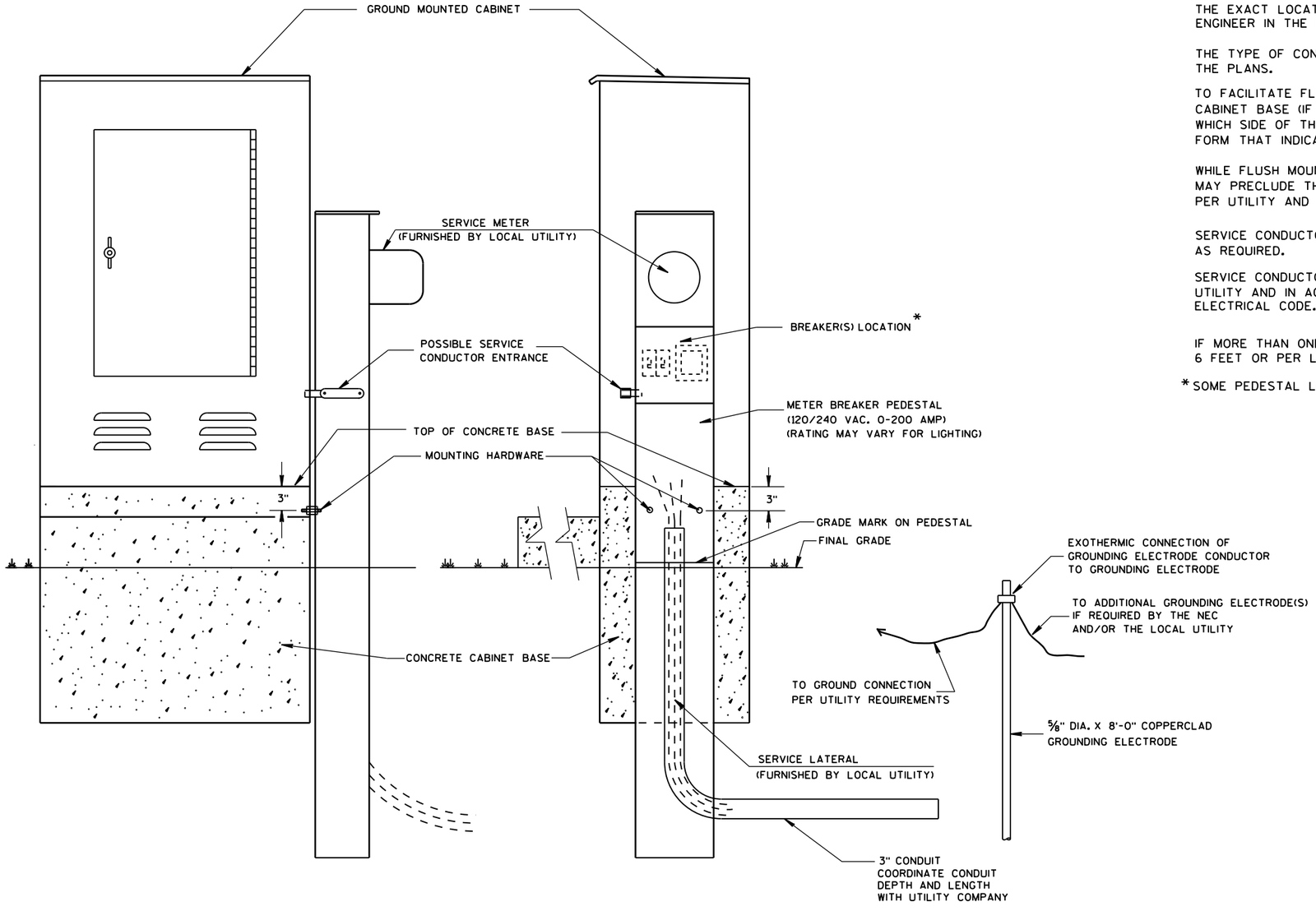
APPROVED
November 2018
DATE

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SDD 09C14 - 03

SDD 09C14 - 03



TYPICAL CABINET SERVICE INSTALLATION

GENERAL NOTES

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

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

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

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

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

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

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

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

* SOME PEDESTAL LIGHTING PLANS SHOW MAIN LUGS ONLY.

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S.D.D. 9 D 1-5

CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)

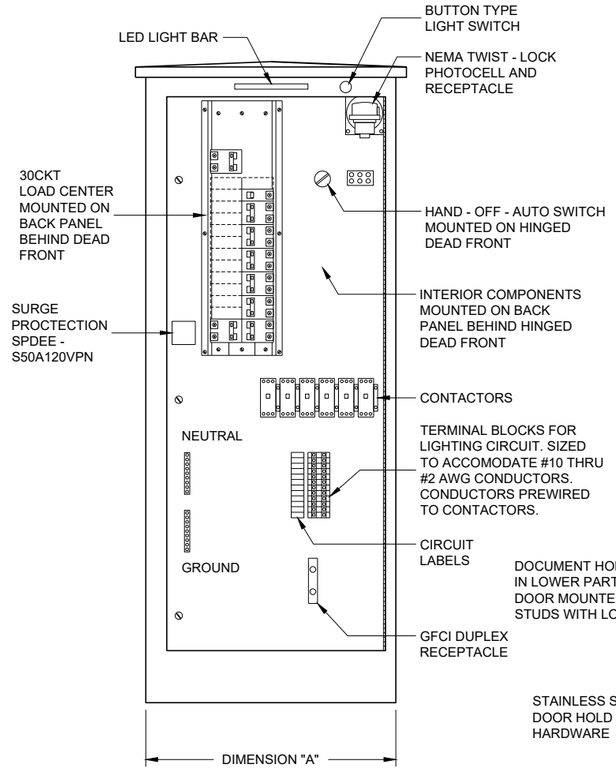
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014
DATE

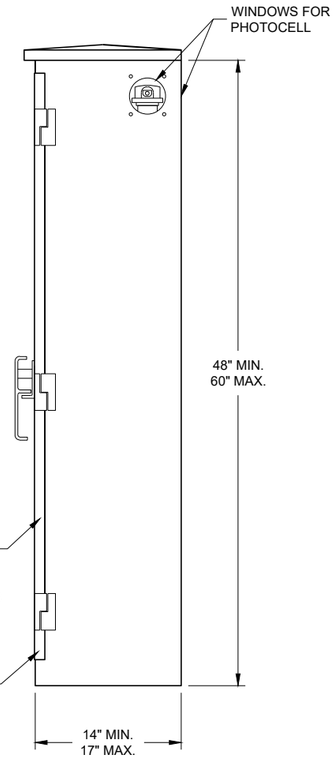
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FRONT INTERIOR ELEVATION



SIDE VIEW



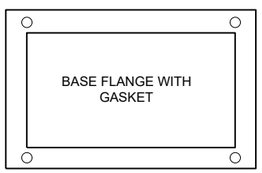
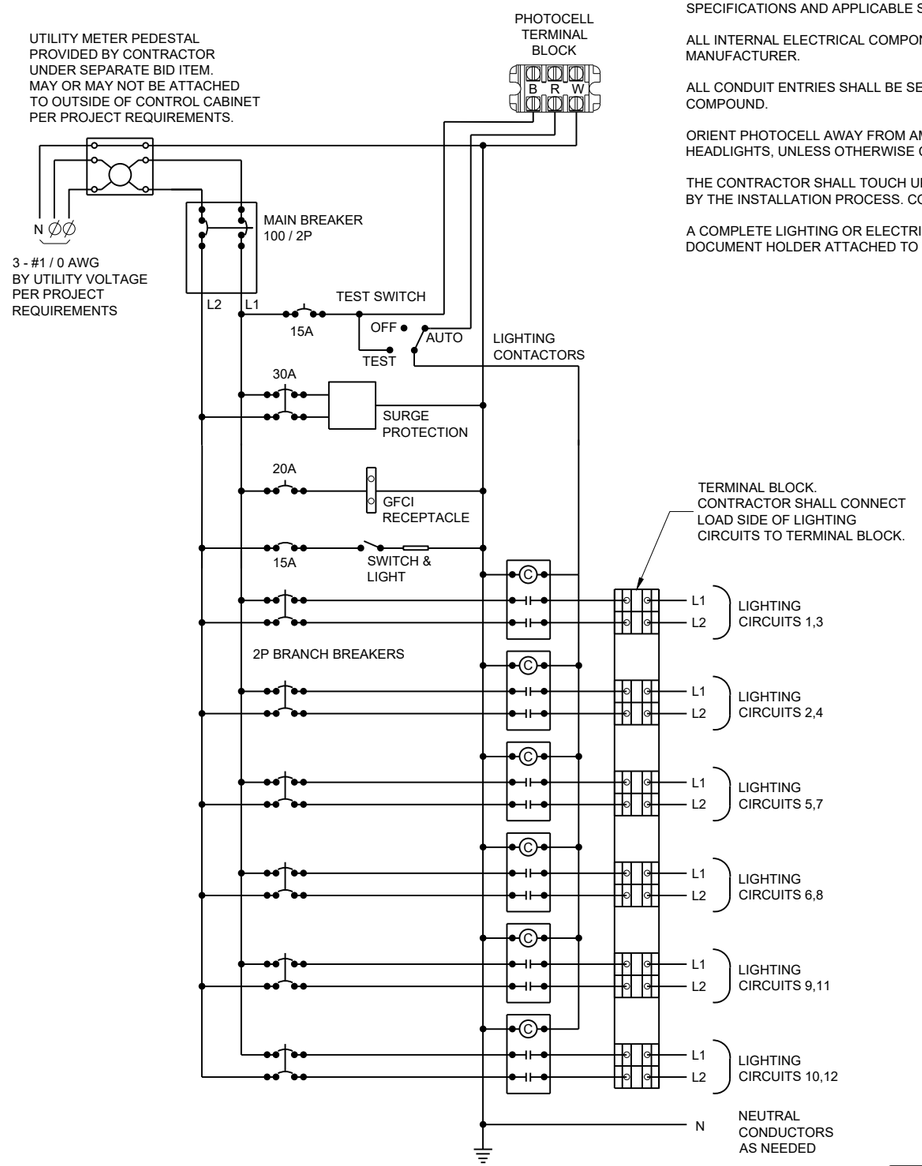


TABLE OF DIMENSIONS (INCHES)		
CONCRETE BASE TYPE	CABINET WIDTH	DIMENSION "A"
L24	24"	24"
L30	30"	30"

LIGHTING CONTROL CABINET



CONTROL CABINET SCHEMATIC

GENERAL NOTES

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

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

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

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

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

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

LIGHTING CONTROL CABINET
120 / 240 VOLT

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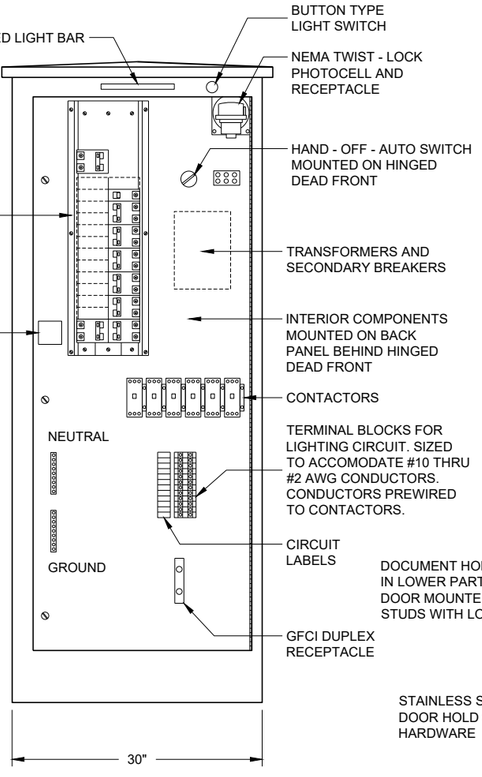
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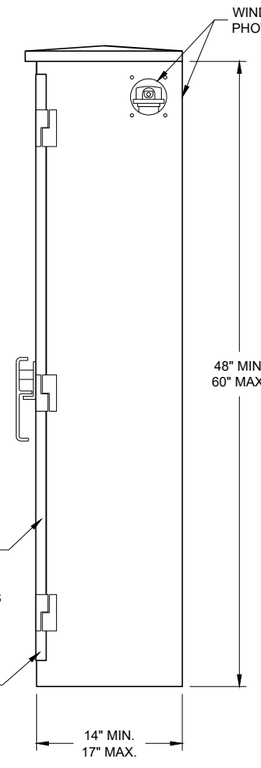
SDD 09D04 - 03

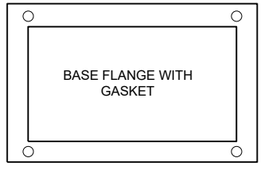
SDD 09D04 - 03

FRONT INTERIOR ELEVATION

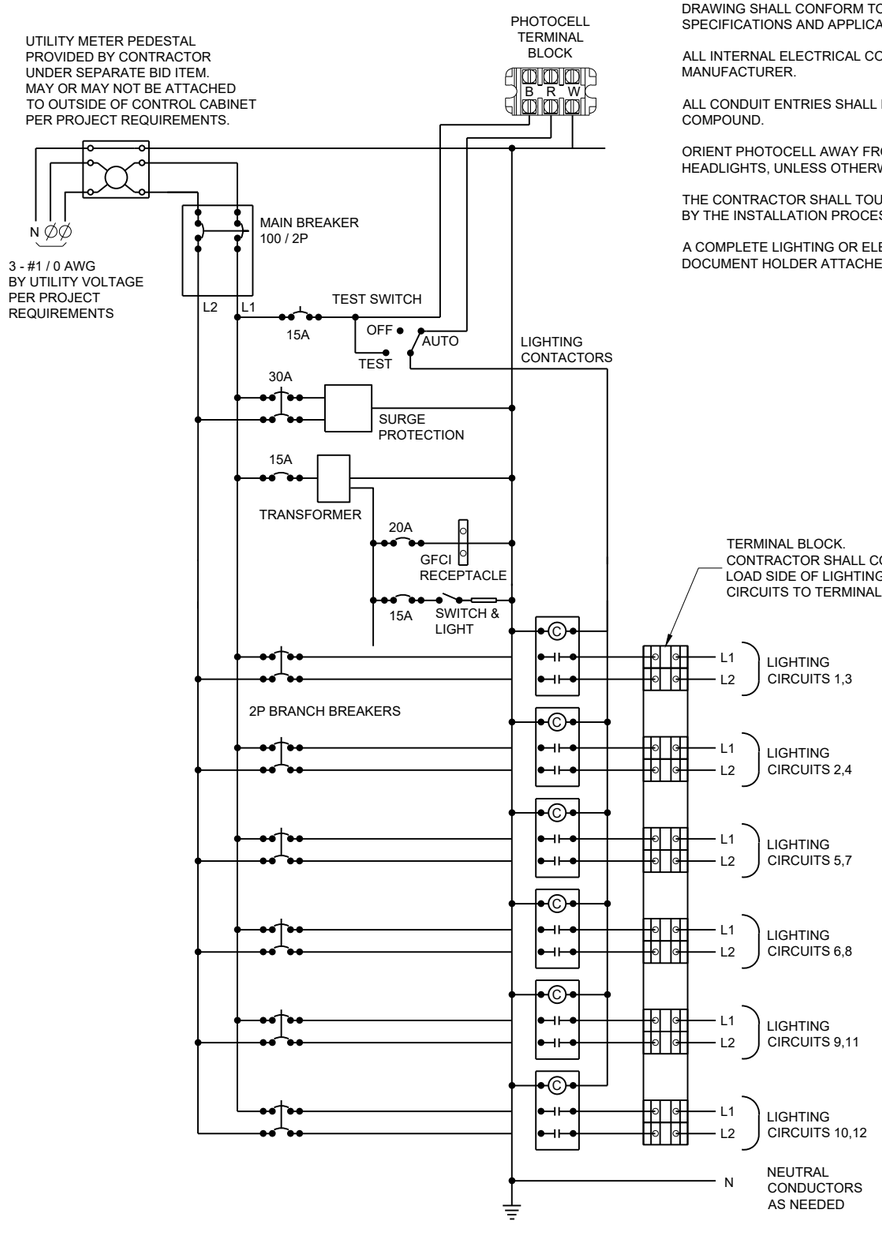


SIDE VIEW





LIGHTING CONTROL CABINET



CONTROL CABINET SCHEMATIC

GENERAL NOTES

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

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

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

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

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

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

L30
LIGHTING CONTROL CABINET 240 / 480 VOLT

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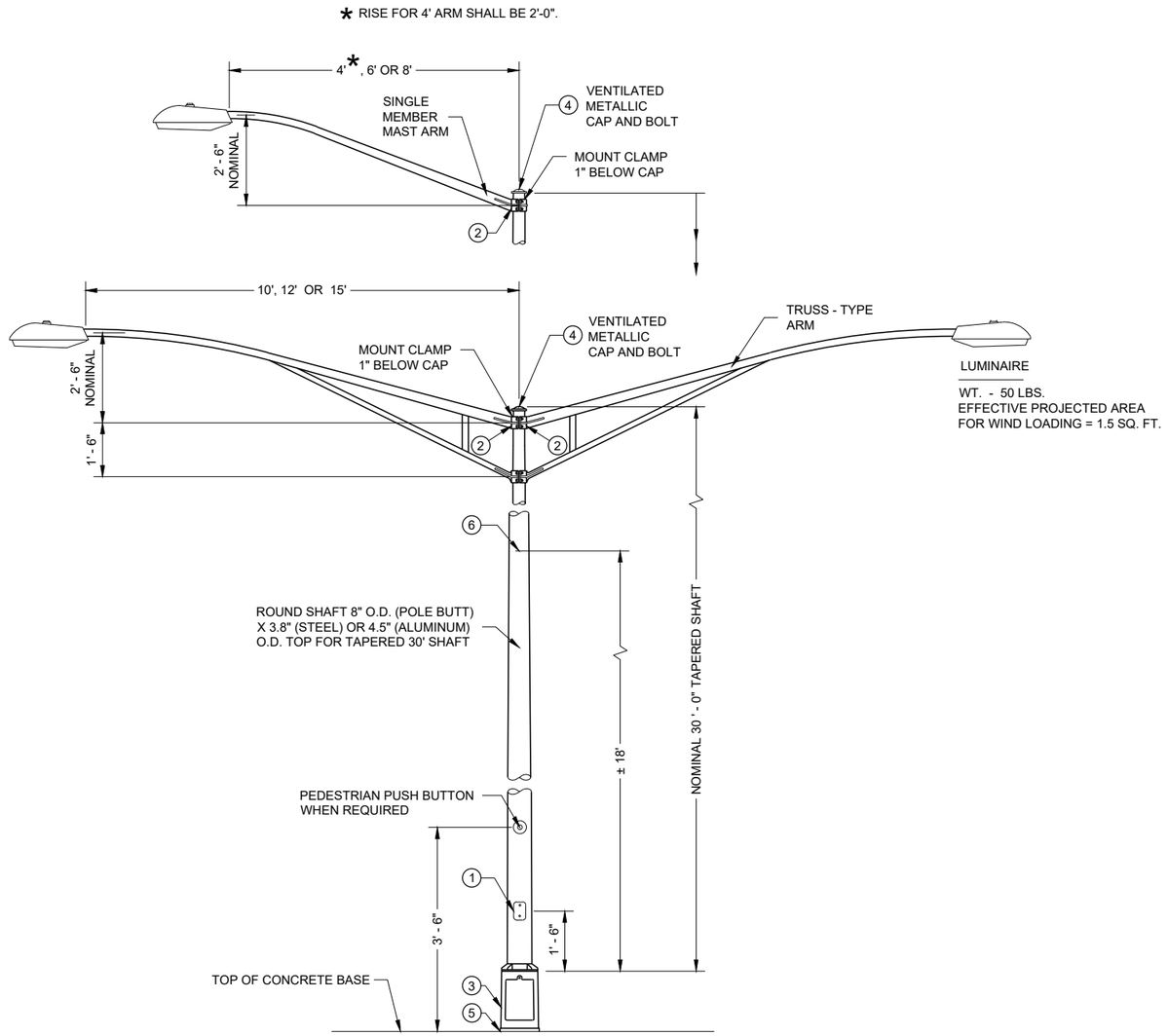
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TYPE 5 POLE MOUNTING CONFIGURATION
(MAXIMUM LOAD)
LIGHTING ONLY

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

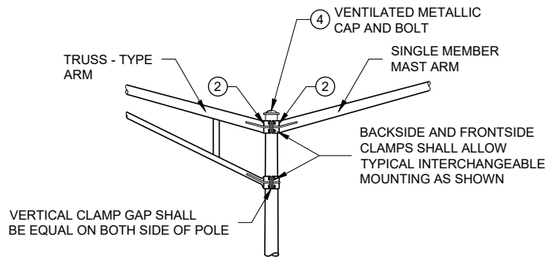
(2) GROMMETS. 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 ⅜" HOLE IN POLE SHAFT FOR WIRING.

(3) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.

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

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

(6) INTERNAL DUMBBELL - TYPE VIBRATION DAMPER.

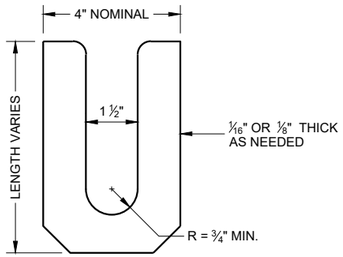


INTERCHANGEABLE MOUNTING DETAIL

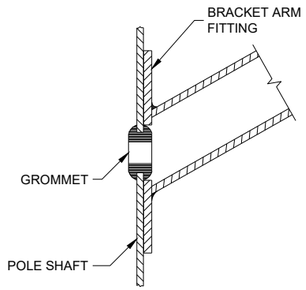
POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)

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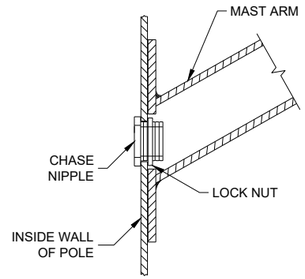
SDD 09E01 - 15d



LEVELING SHIM (1)
SHALL BE ALUMINUM



TYPICAL APPLICATION OF GROMMET IN POLE SHAFT



TYPICAL APPLICATION OF CHASE NIPPLE IN POLE SHAFT

GENERAL NOTES

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

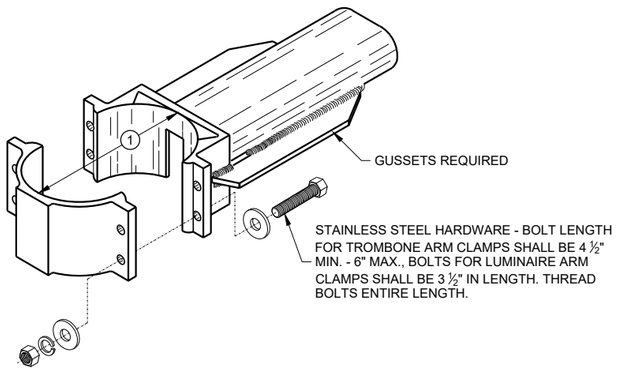
(1) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP. 6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

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

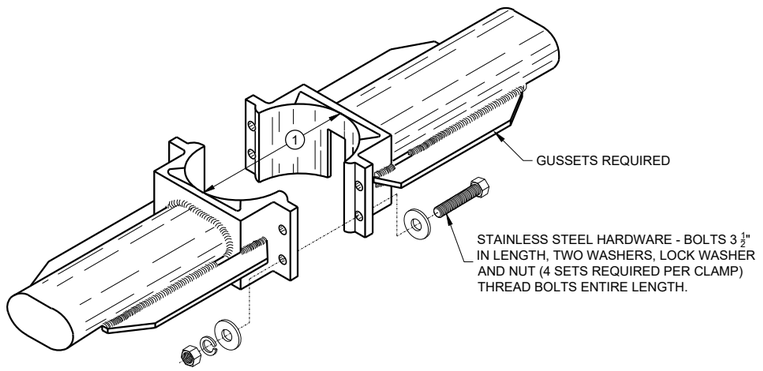
(3) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

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

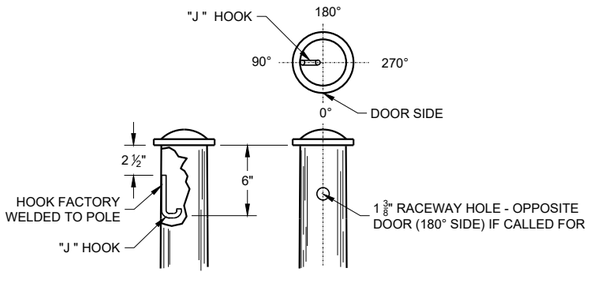
SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



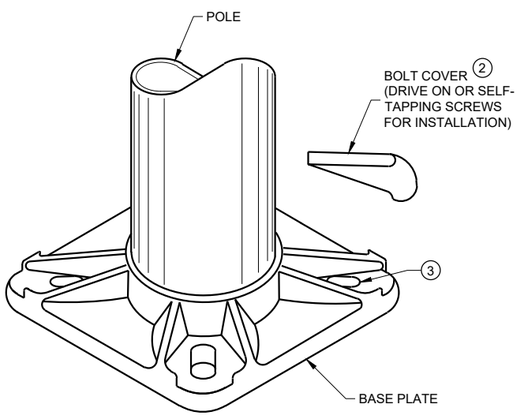
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



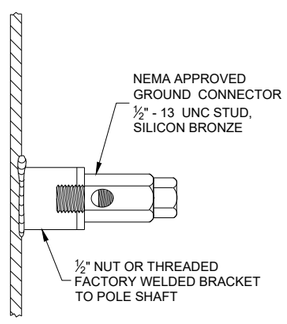
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

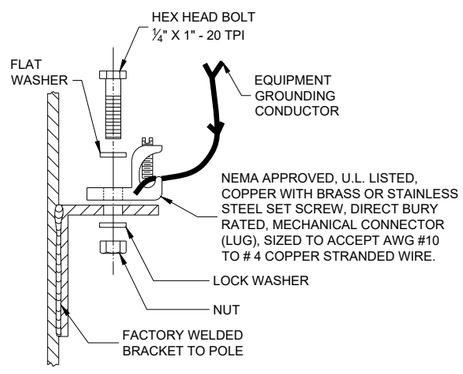


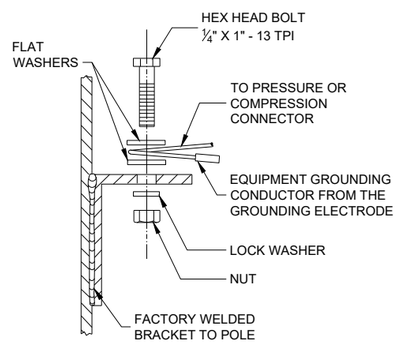
TYPICAL "J" HOOK LOCATION



BASE PLATE







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

HARDWARE DETAILS FOR POLE MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

FHWA

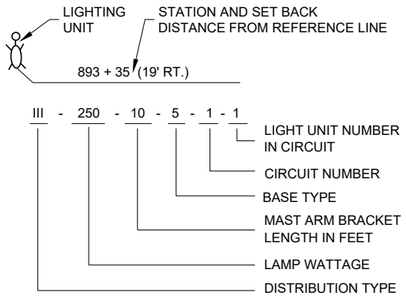
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SDD 09E01 - 15g

GENERAL NOTES

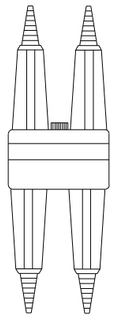
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

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

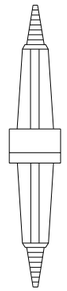
WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.



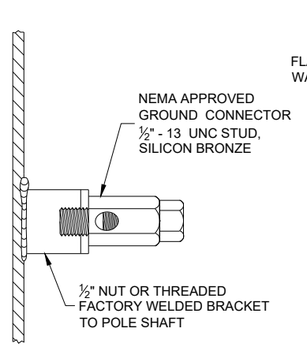
LIGHTING UNIT CODE
(TYPICAL)



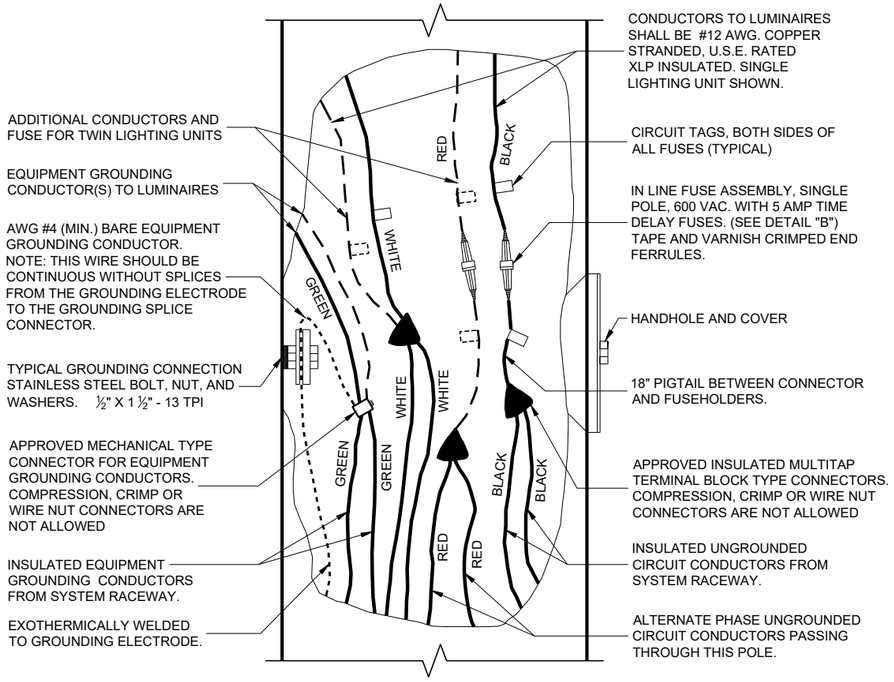
DETAIL "A"
BREAKAWAY DOUBLE POLE WITH WATERPROOF INSULATING BOOT



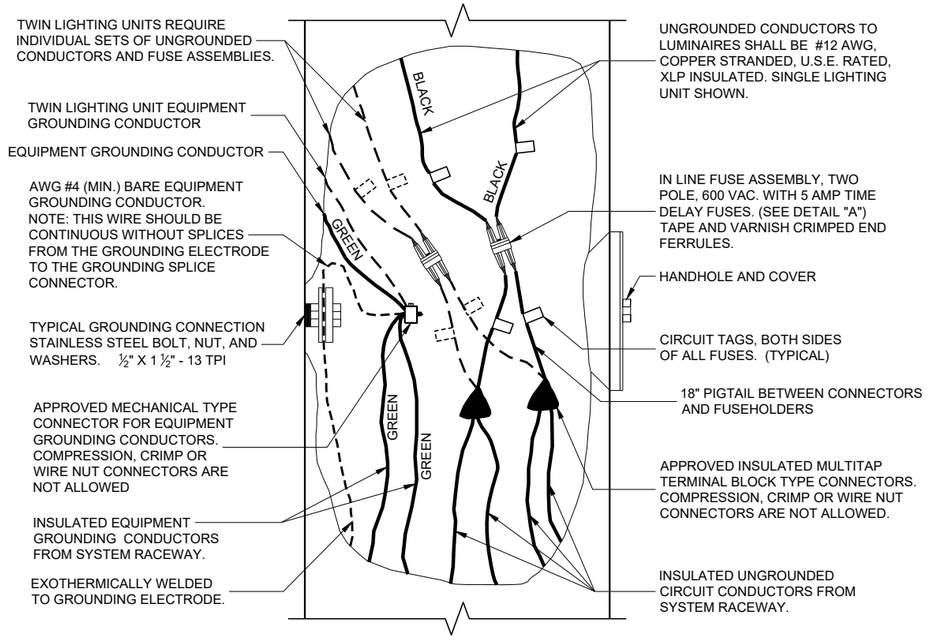
DETAIL "B"
BREAKAWAY SINGLE POLE WITH WATERPROOF INSULATING BOOT



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



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



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

NON - FREEWAY LIGHTING UNIT POLE WIRING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

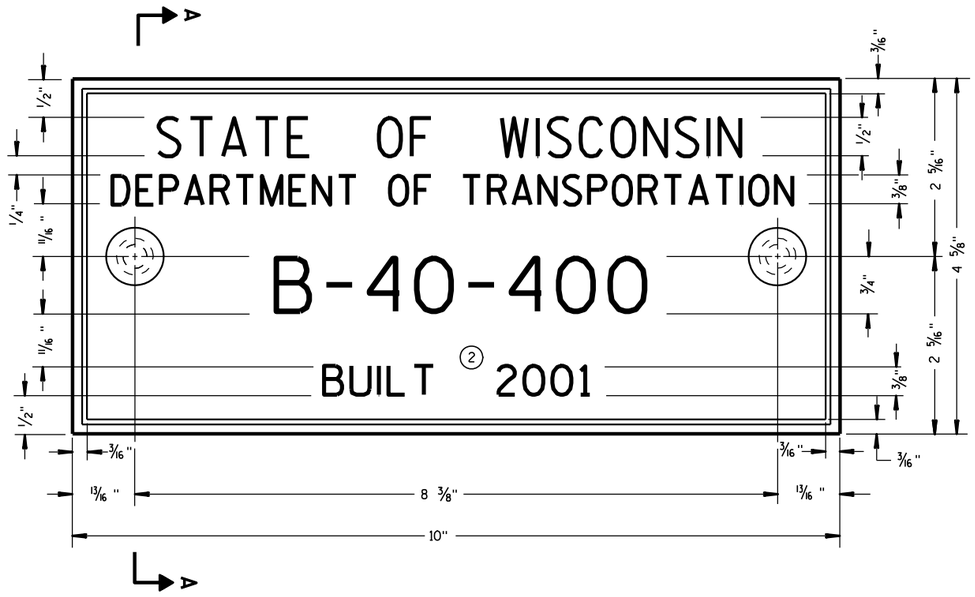
FHWA

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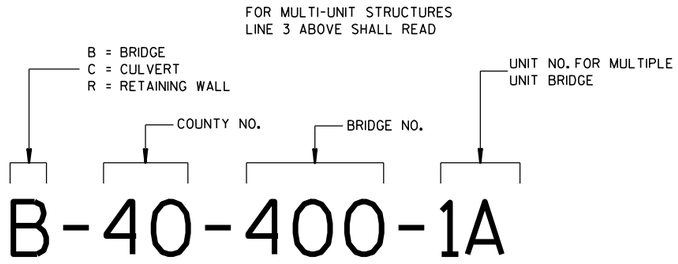
SDD 09E03 - 06

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SDD 09E03 - 06



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



NUMBERING DESIGNATION
MULTI-UNIT STRUCTURES

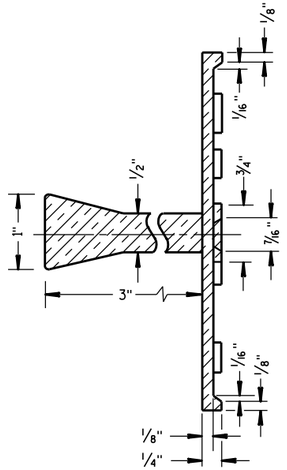
GENERAL NOTES

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

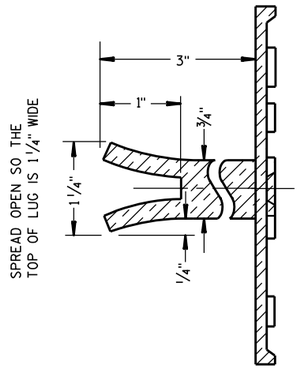
THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

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

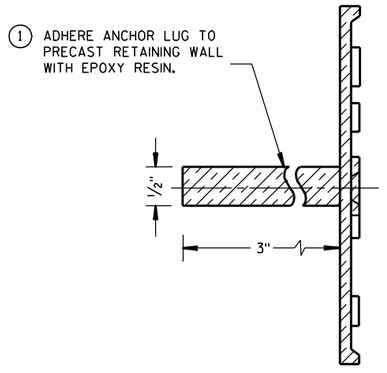
(2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SECTION A-A



ALTERNATE LUG



ALTERNATE LUG
(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/26/10 DATE

/S/ Scot Beck -- CHIEF STRUCTURAL DEVELOPMENT ENGINEER

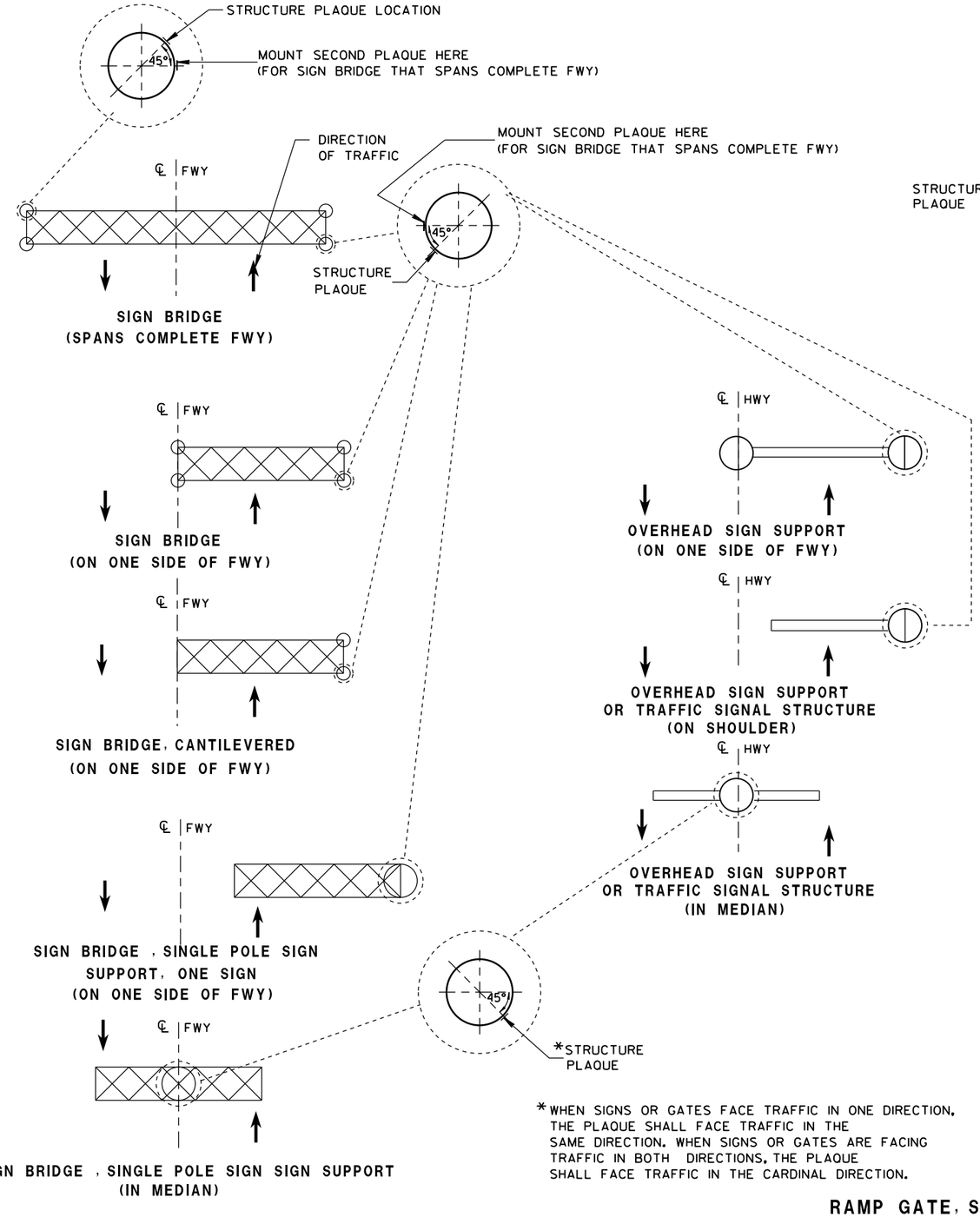
FHWA

6

S.D.D. 12 A 3-10

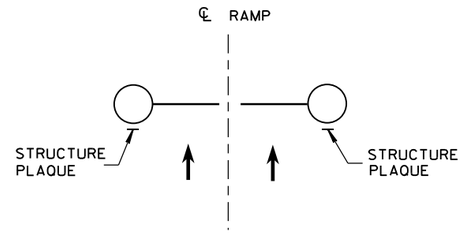
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S.D.D. 12 A 3-10

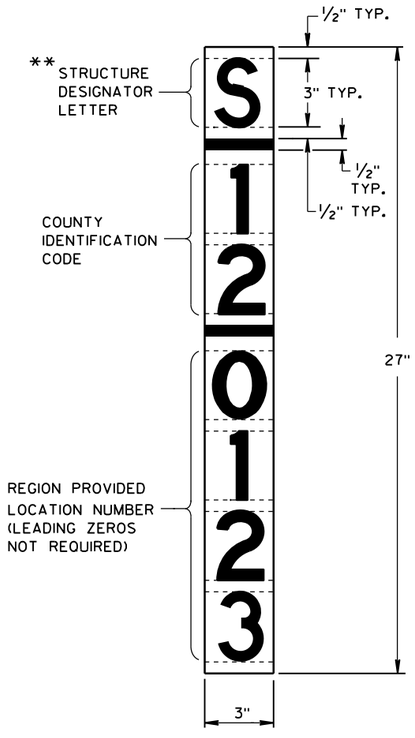


LOCATION OF RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT & TRAFFIC SIGNAL STRUCTURE PLAQUES

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



RAMP GATE
(ACROSS FWY ON-RAMP)



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

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

GENERAL NOTES

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

PLAQUES SHALL BE INCIDENTAL TO ALL NEW INSTALLATIONS.

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

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

GALVANIZED STEEL SHAFT - 3 STAINLESS STEEL POP RIVETS

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

ALUMINUM SHAFTS - 3 ALUMINUM POP RIVETS

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

PLAQUE MATERIALS:

BASE - SHEET ALUMINUM, 0.060" THICK.

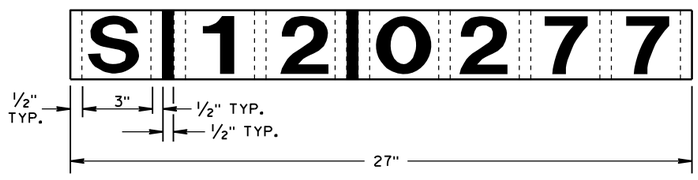
FACE - WHITE, SELF-ADHESIVE VINYL SHEETING, NON-RETROREFLECTIVE

LINES - BLACK, ½" WIDE, SELF-ADHESIVE

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

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

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

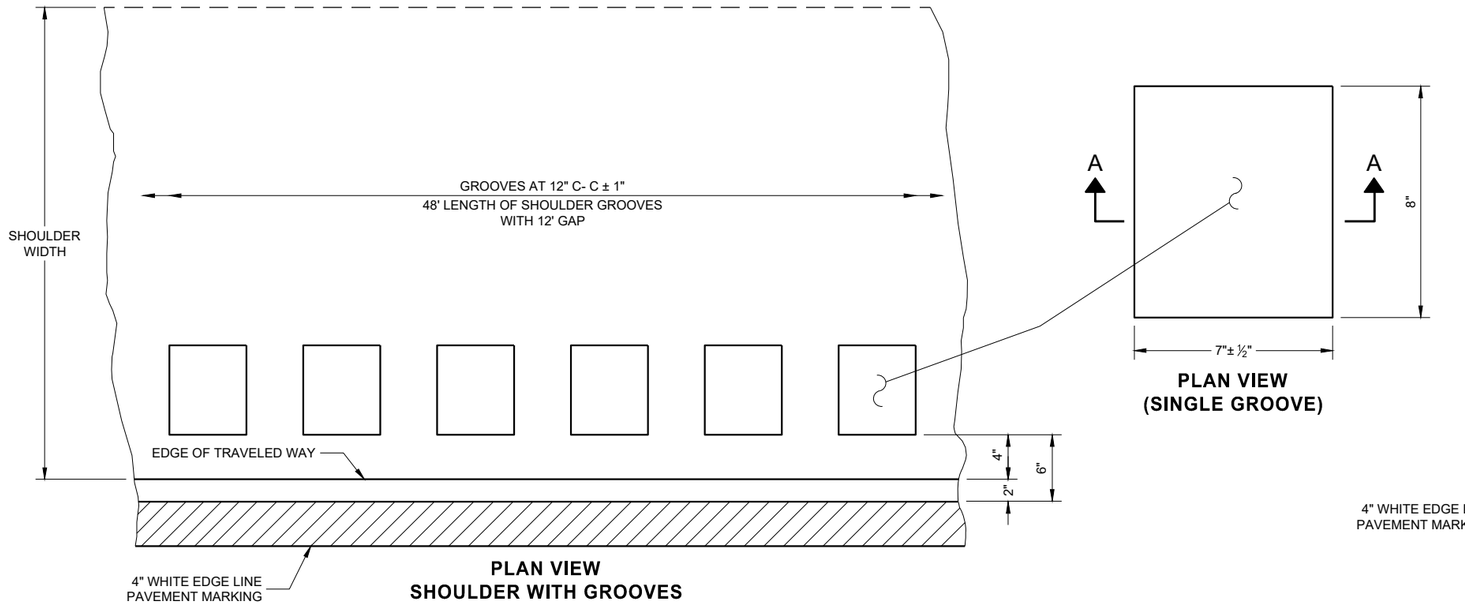


IDENTIFICATION PLAQUE FOR SIGN BRIDGE, STRUCTURE MOUNTED

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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



PLAN VIEW
SHOULDER WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

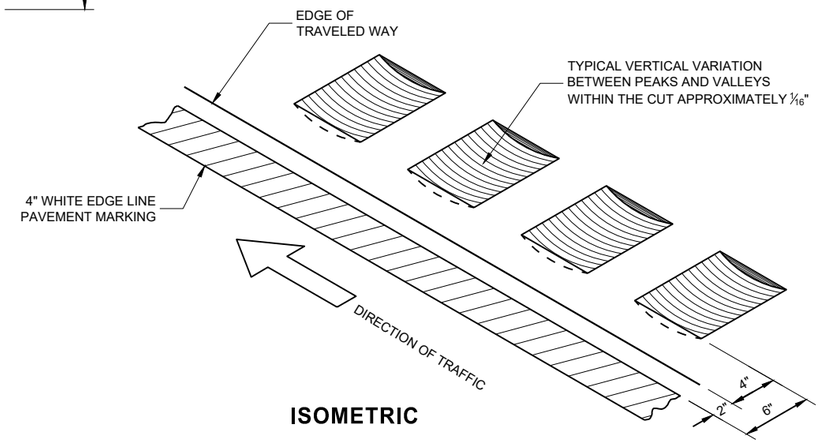
PLACEMENT DETAIL FOR TYPE 1 MILLED RUMBLE STRIP

GENERAL NOTES

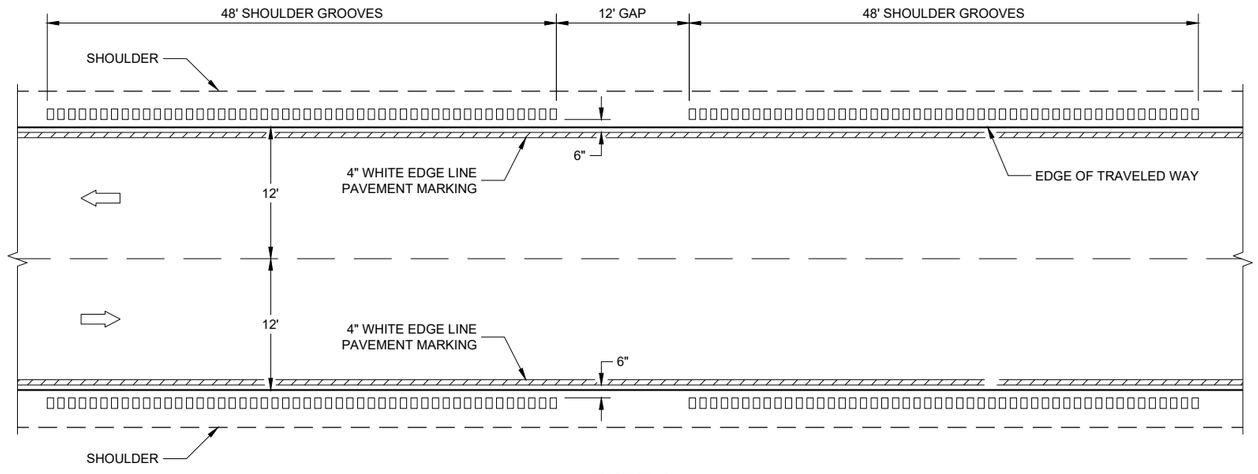
DETAILS OF CONSTRUCTION NO SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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

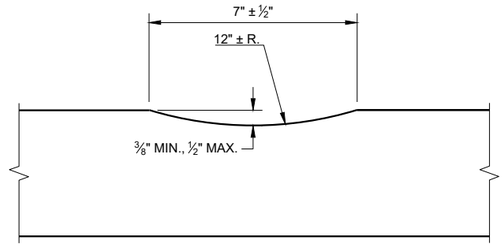
(1) SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS. WHEN DIRECTED BY THE ENGINEER.



ISOMETRIC



TYPE 1
2 - LANE SHOULDER RUMBLE STRIP



SECTION A - A

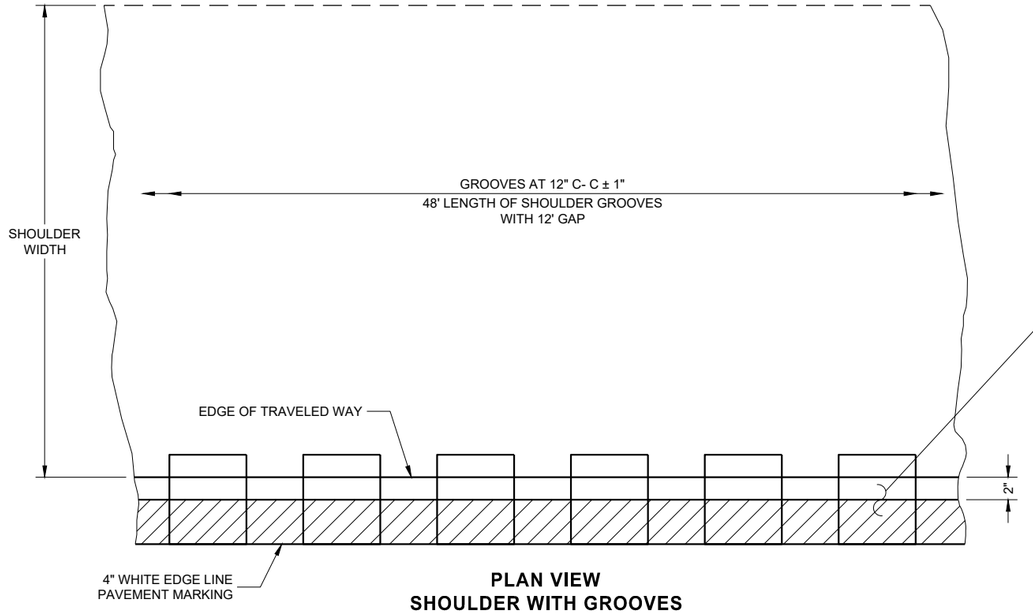
2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA

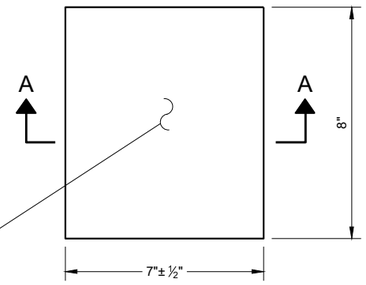
SDD 13A10 - 02a

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SDD 13A10 - 02a



PLAN VIEW
SHOULDER WITH GROOVES



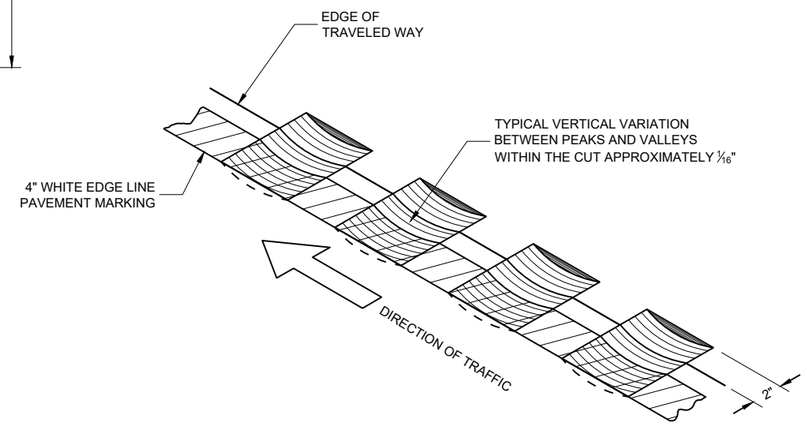
PLAN VIEW
(SINGLE GROOVE)

GENERAL NOTES

DETAILS OF CONSTRUCTION NO SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

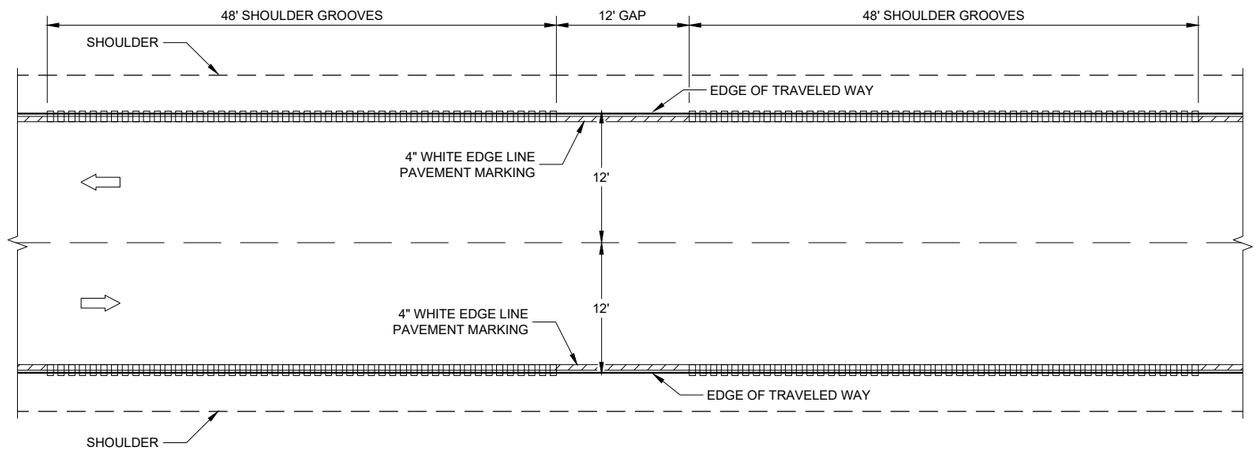
DO NOT MILL SHOULDER GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

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

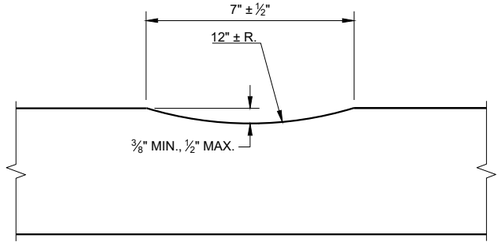


ISOMETRIC

PLACEMENT DETAIL FOR TYPE 2 MILLED RUMBLE STRIP



TYPE 2
2 - LANE SHOULDER RUMBLE STRIP



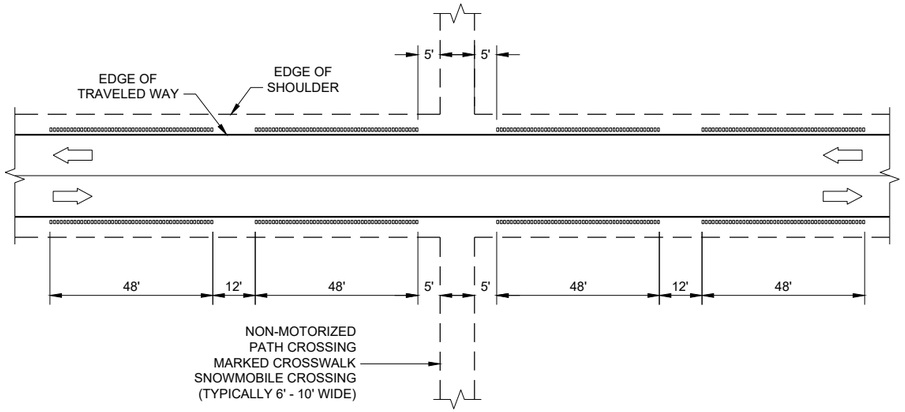
SECTION A - A

2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING

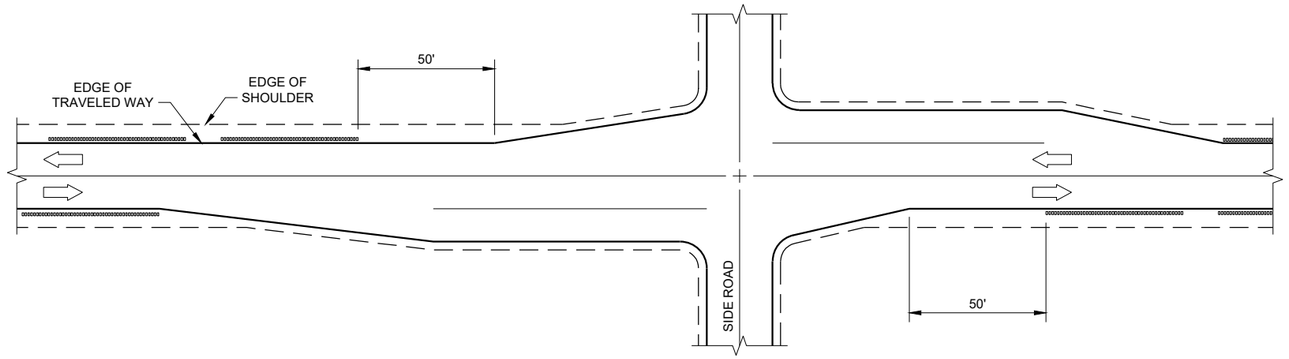
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 13A10 - 02b

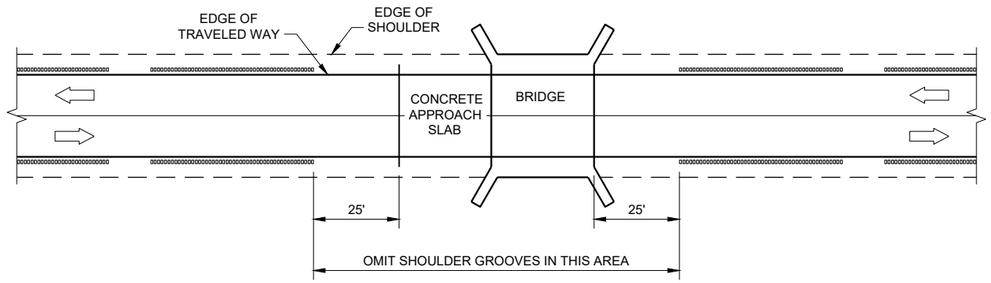
SDD 13A10 - 02b



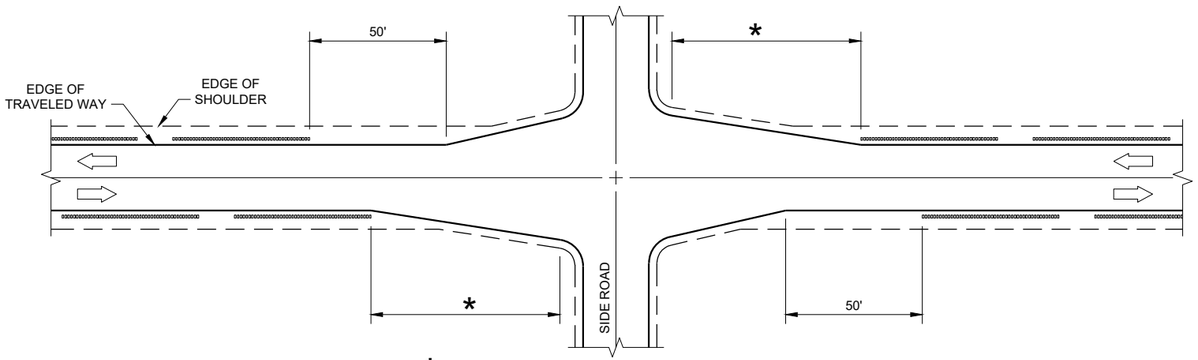
SHOULDER GROOVES AT MISCELLANEOUS CROSSINGS



SHOULDER GROOVES AT RIGHT TURN LANE

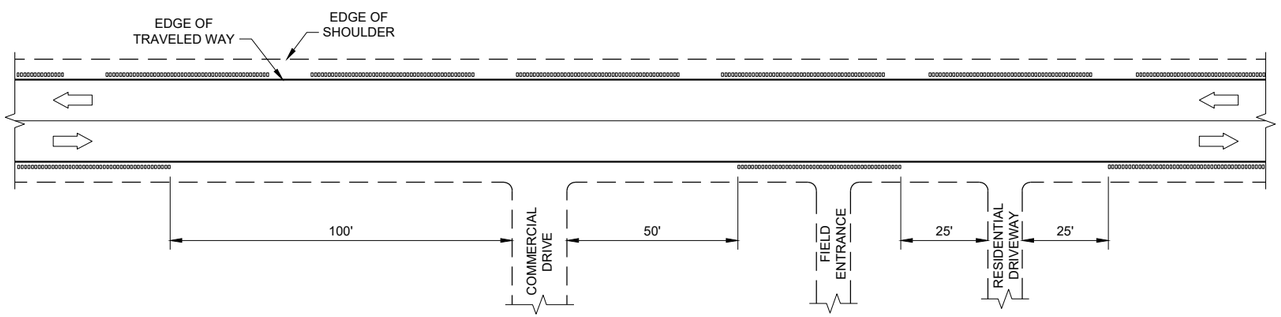


SHOULDER GROOVES AT BRIDGES



* GREATER OF 100' OR APPROACH TAPER LENGTH

SHOULDER GROOVES AT INTERSECTIONS WITH APPROACH TAPER



SHOULDER GROOVES AT DRIVEWAYS (1)

GENERAL NOTES

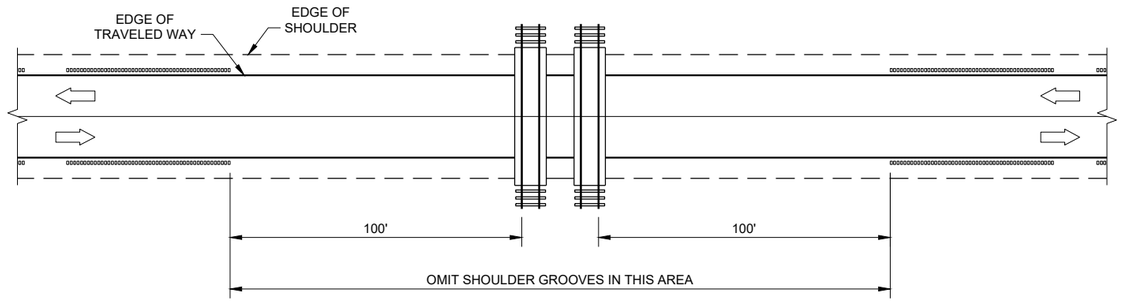
(1) SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS. WHEN DIRECTED BY THE ENGINEER.

2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING

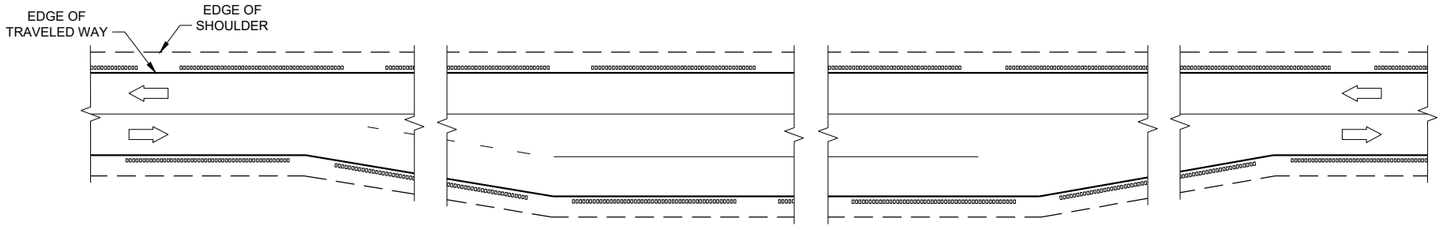
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

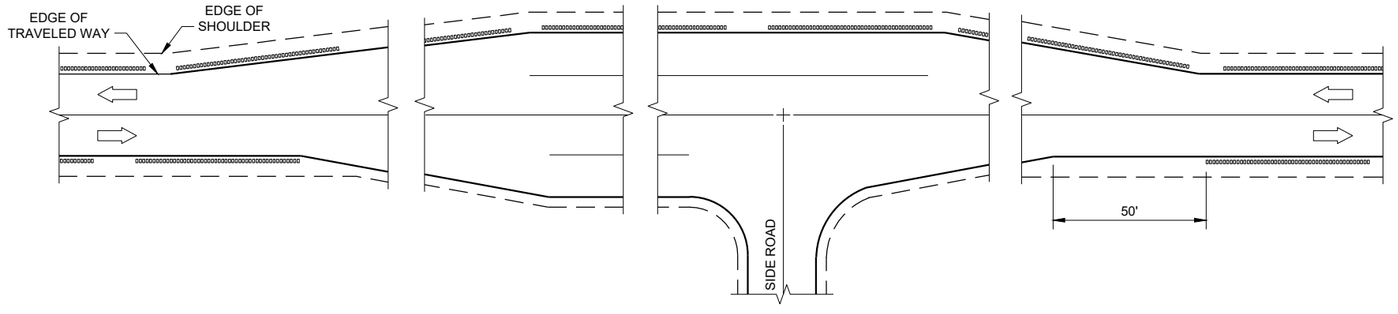
SDD 13A10 - 02c



SHOULDER GROOVES AT RAILROADS



SHOULDER GROOVES AT PASSING AND CLIMBING LANES



SHOULDER GROOVES AT BYPASS LANES

6

6

SDD 13A10 - 02d

SDD13A10 - 02d

2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING

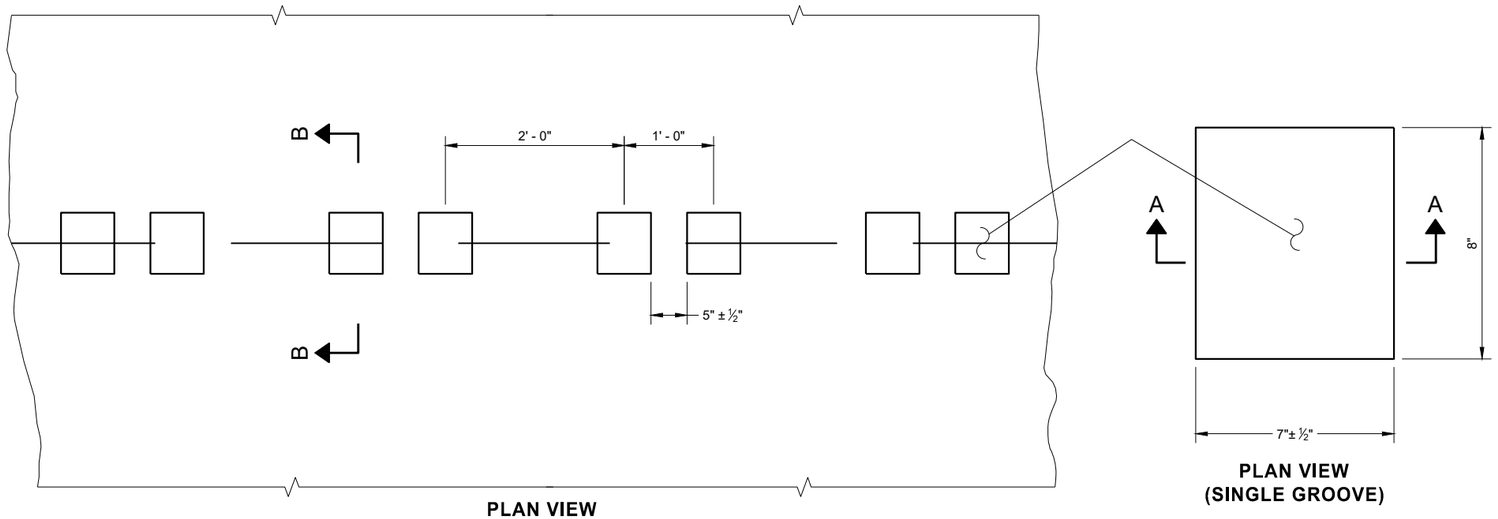
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA



PLAN VIEW
SHOULDER WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR TYPE 1 MILLED RUMBLE STRIP

GENERAL NOTES

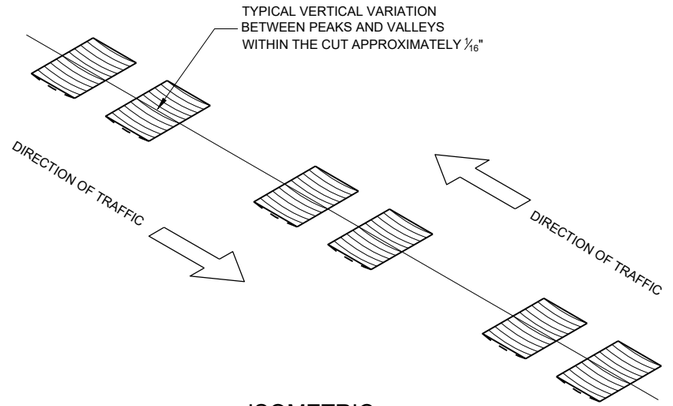
DETAILS OF CONSTRUCTION NO SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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

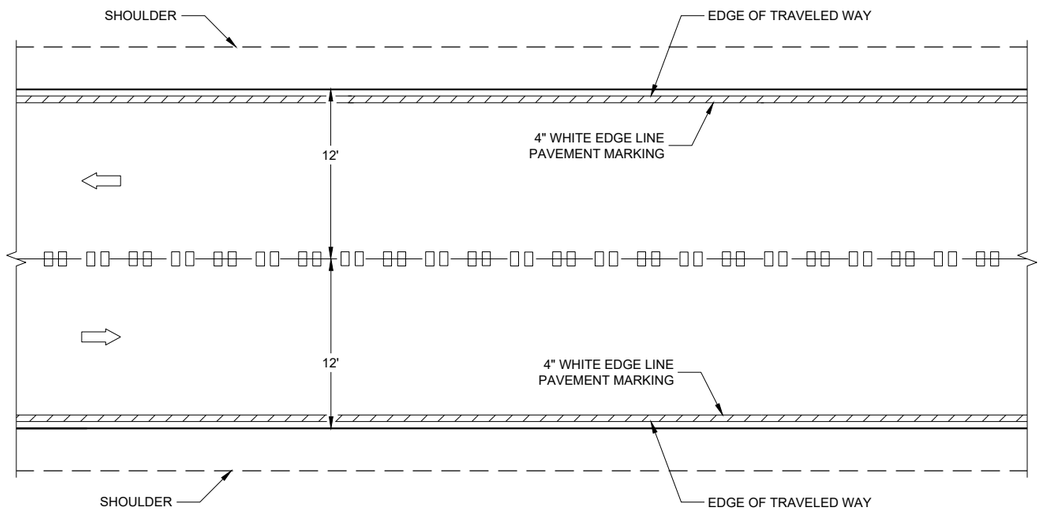
INSTALL PAVEMENT MARKING AFTER THE GROOVES ARE INSTALLED.

SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

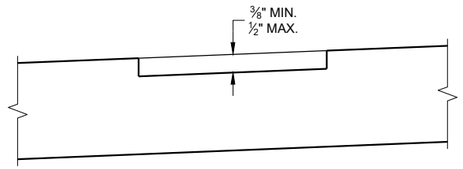
(1) CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS. WHEN DIRECTED BY THE ENGINEER.



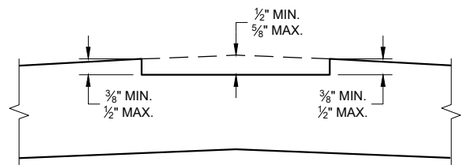
ISOMETRIC



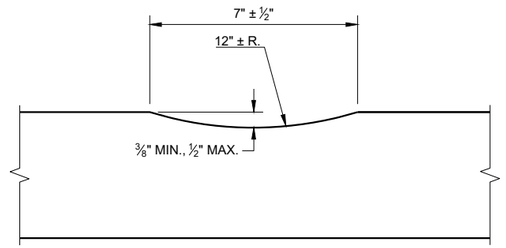
CENTERLINE GROOVES ON TWO-WAY ROADWAYS



SECTION B - B
SUPERELEVATED ROADWAY



SECTION B - B
CROWNED ROADWAY



SECTION A - A

2-LANE RURAL
CENTER LINE RUMBLE STRIP, MILLING

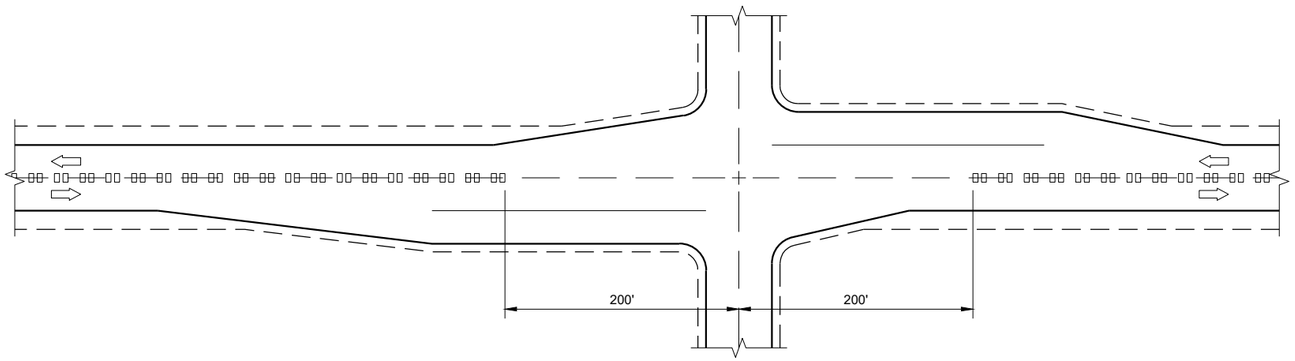
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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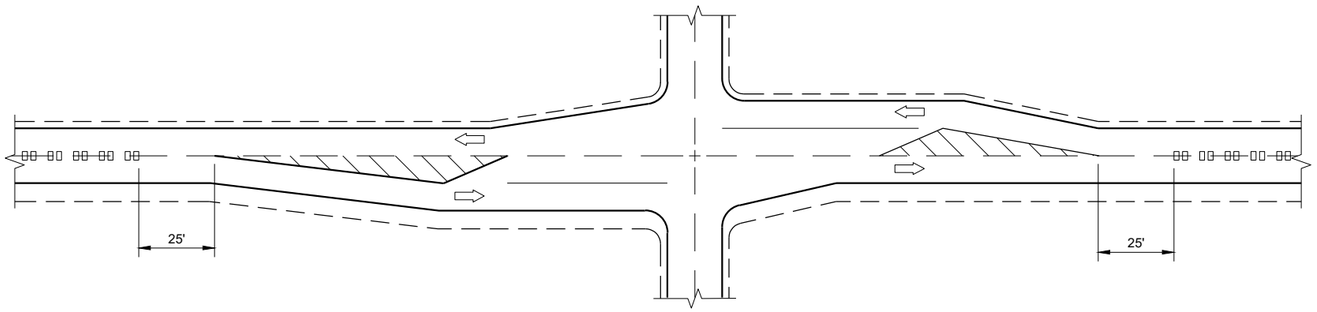
SDD 13A11 - 03a

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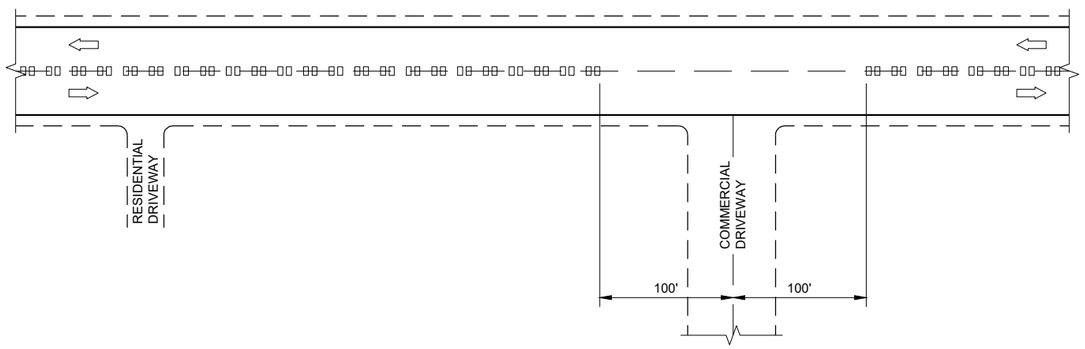
SDD 13A11 - 03a



CENTERLINE GROOVES AT INTERSECTIONS



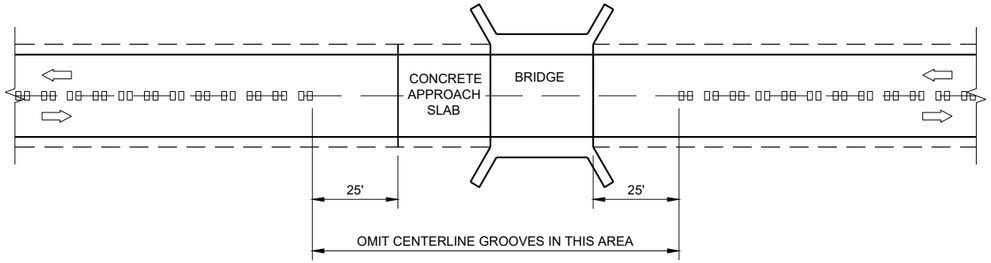
CENTERLINE GROOVES AT INTERSECTIONS (WITH LEFT TURN LANES)



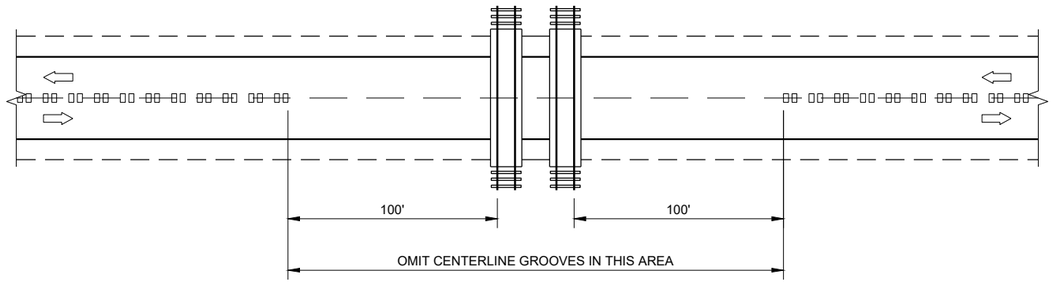
CENTERLINE GROOVES AT DRIVEWAYS (1)

GENERAL NOTES

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



CENTERLINE GROOVES AT BRIDGES



CENTERLINE GROOVES AT RAILROADS

2-LANE RURAL
CENTERLINE RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

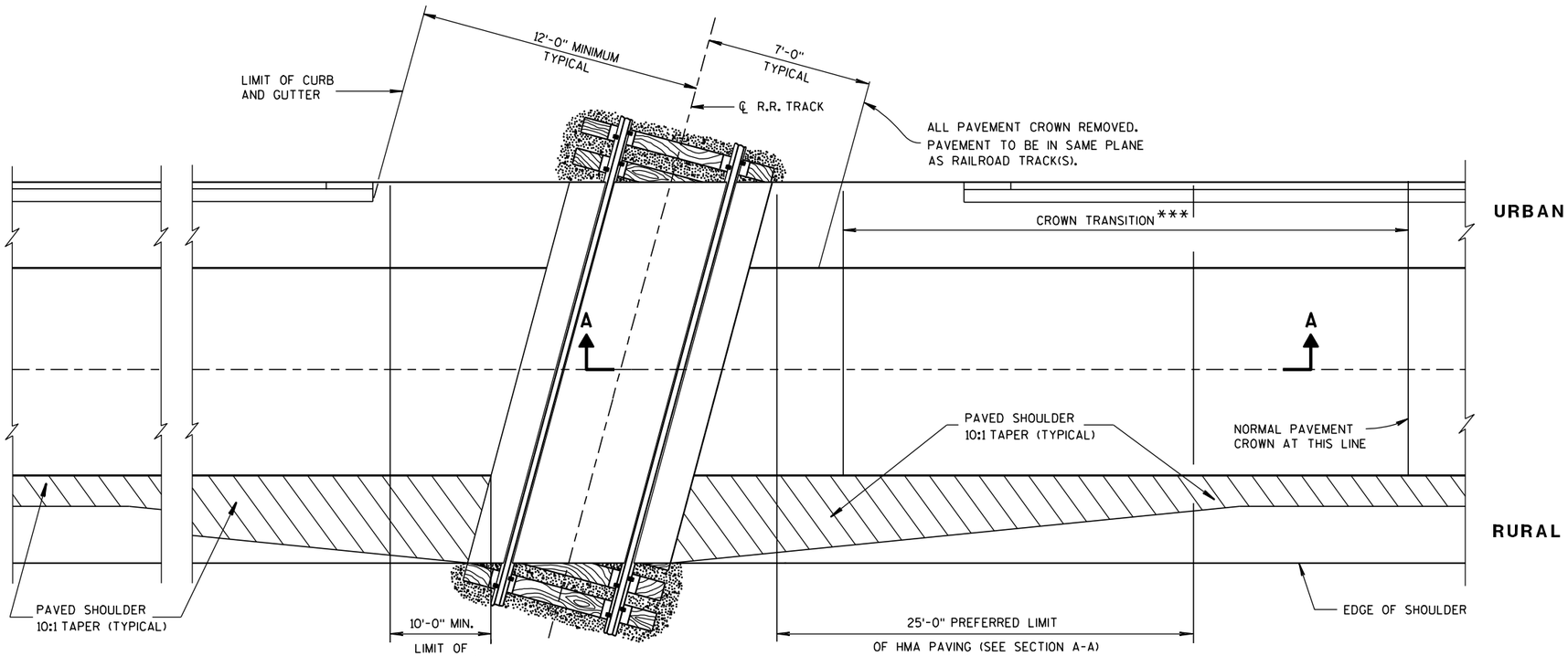
APPROVED
7/2018
DATE

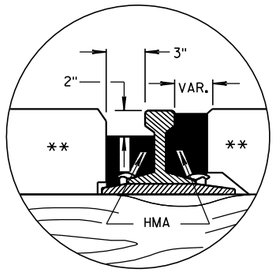
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA

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SDD 13A11 - 03b
SDD 13A11 - 03b





DETAIL B

HMA FLANGEWAY AND FIELD FILLERS

GENERAL NOTES

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

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

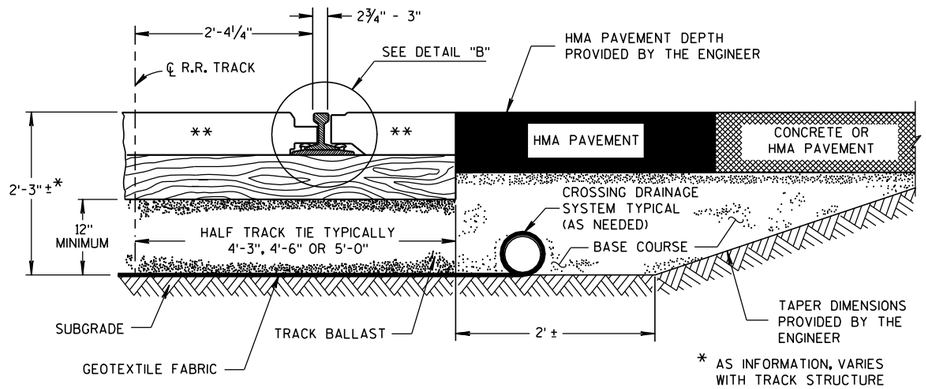
HMA PAVEMENT APPROACHES AND HMA PAVEMET CROSSING SURFACES TO BE PLACED BY CONTRACTOR UNLESS OTHERWISE PROVIDED.

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

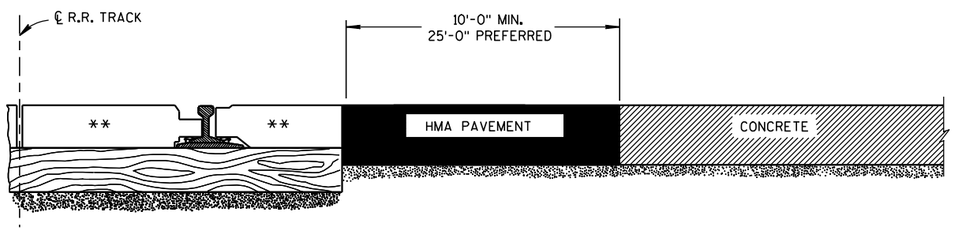
HMA PAVEMENT SHALL BE ROLLED PARALLEL TO THE TRACK.

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

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



TYPICAL HALF SECTION



SECTION A-A

CONCRETE PAVEMENT APPROACH



SECTION A-A

HMA PAVEMENT APPROACH

EXAMPLES OF PAVEMENT APPROACHES

PAVEMENT DETAILS FOR RAILROAD APPROACH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

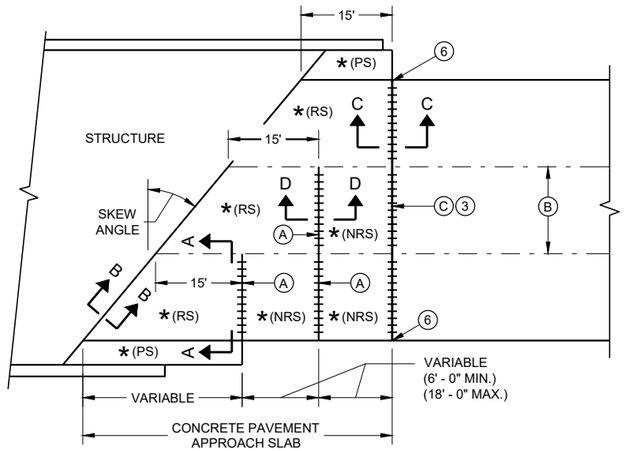
APPROVED
8-28-09 DATE
/S/ Ronald E. Adams
CHIEF, RAILROADS & HAI CTION
FHWA

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S.D.D. 13 B 1-10

6

S.D.D. 13 B 1-10



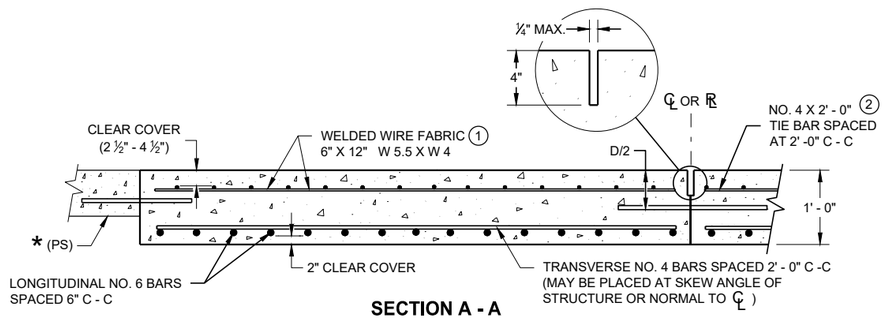
SKEWED APPROACH
(PAVEMENT MORE THAN TWO LANES)

* (RS) = REINFORCED CONCRETE SLAB

* (PS) = PAVED CONCRETE SHOULDER OR CONCRETE DRAINAGE SLAB

* (NRS) - NON - REINFORCED CONCRETE SLAB

*** STANDARD DOWEL BAR DIAMETER (SEE SDD 13C11 AND SDD 13C13)



SECTION A - A
REINFORCEMENT POSITIONING DETAIL

GENERAL NOTES

THE CONTRACTOR MAY SPLICE NO. 6 BARS IN THE APPROACH SLAB FOR SKEWED STRUCTURES ONLY. STAGGER SPLICES WITH A MAXIMUM OF ONE SPLICE PER BAR. THE LENGTH OF LAP IS 20 INCHES.

TACK WELD DOWEL BARS TO THE BASKETS ON ALTERNATE ENDS.

(1) THE CONTRACTOR MAY USE NO. 4 BARS SPACED AT 2' - 0 " C - C IN BOTH THE LONGITUDINAL AND TRANSVERSE DIRECTIONS FOR TOP REINFORCEMENT AS AN ALTERNATIVE TO THE WELDED WIRE FABRIC.

(2) THE CONTRACTOR MAY OMIT THE BARS BETWEEN REINFORCED SLABS WHERE SLAB REINFORCEMENT BARS EXTEND ACROSS THE CENTERLINE OR REFERENCE LINE.

(3) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING AN HMA PAVEMENT.

(4) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.

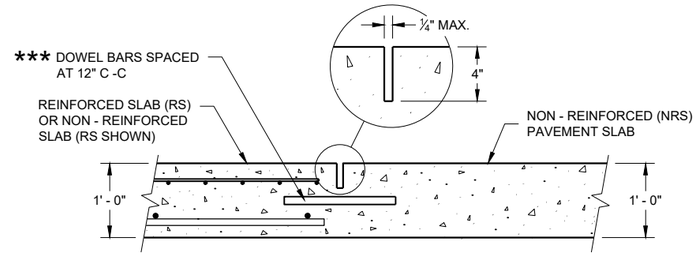
(5) PLACE EXPANSION CAP ON THE END OF THE DOWEL THAT IS NOT TACK WELDED TO THE BASKET. DO NOT FORCE DOWEL BAR PAST THE DOWEL STOP.

(6) EXTEND EXPANSION JOINT THROUGH ANY ADJACENT TIED CONCRETE.

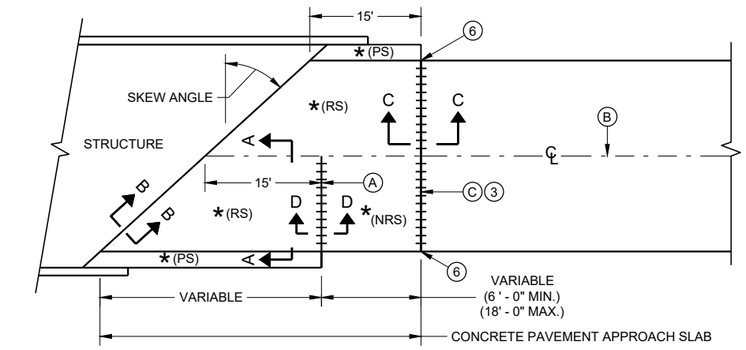
(A) STANDARD CONTRACTION JOINT NORMAL TO ℄ OR ℞.

(B) STANDARD LONGITUDINAL JOINT WITH TIE BARS.

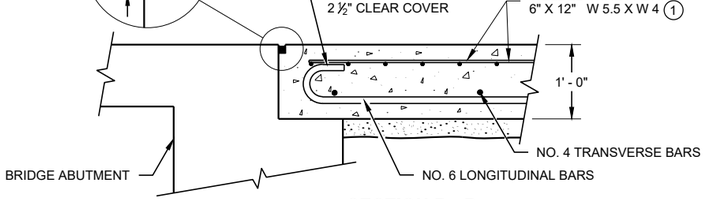
(C) 1 ½" EXPANSION JOINT WITH DOWEL BARS NORMAL TO ℄ OR ℞ .



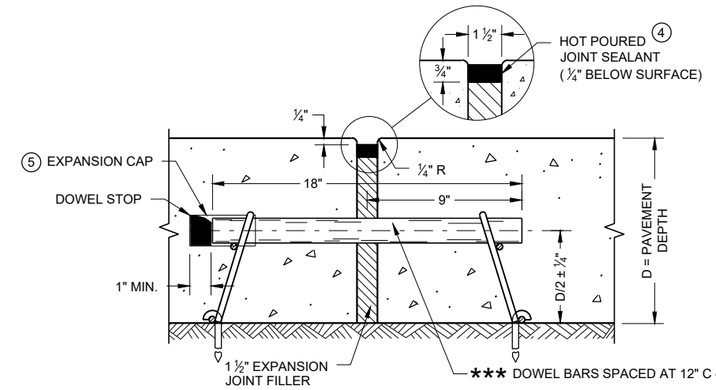
SECTION D - D
CONTRACTION JOINT



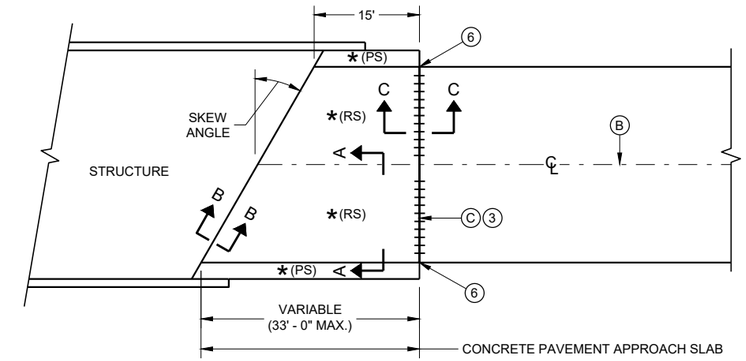
SKEWS > 20°
(PAVEMENT WIDTH ≤ 30')



SECTION B - B
BEND DETAIL
BOTTOM REINFORCEMENT

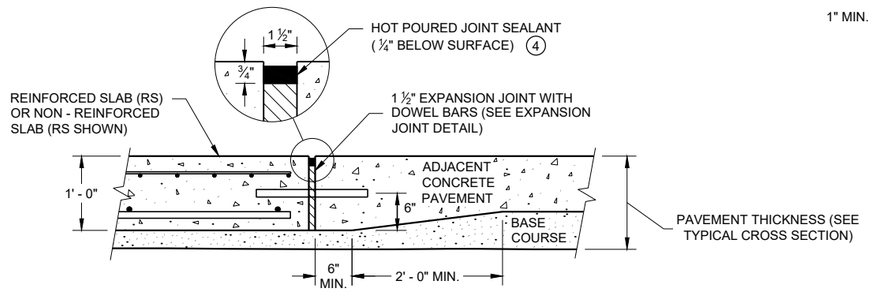


EXPANSION JOINT DETAIL



SKEWS ≤ 20°
(PAVEMENT WIDTH ≤ 30')

APPROACH SLAB AND ADJACENT PAVEMENT



SECTION C - C
TRANSITION DETAIL
APPROACH SLAB TO ADJACENT PAVEMENT

CONCRETE PAVEMENT APPROACH SLAB

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

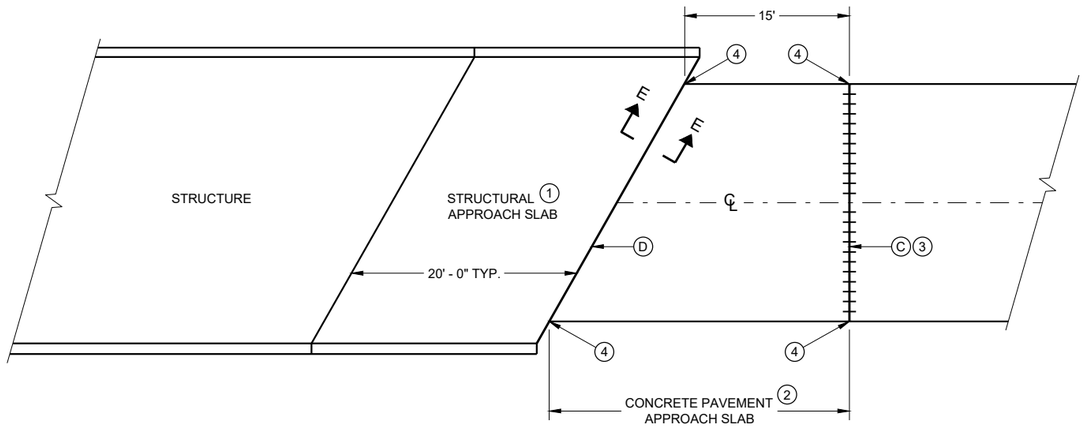
APPROVED
November 2018
DATE

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

FHWA

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SDD 13B02 - 09a



BRIDGE APPROACHES

GENERAL NOTES

ALL PROJECTS THAT INVOLVE A STRUCTURAL APPROACH SLAB WILL ALSO HAVE A CONCRETE PAVEMENT APPROACH SLAB.

(1) SEE BRIDGE PLAN.

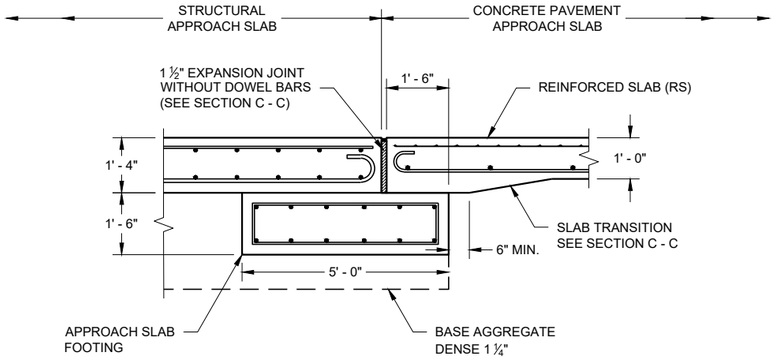
(2) CONFORM TO SDD 13B02 SHEET A FOR CONCRETE PAVEMENT APPROACH SLAB DETAILS

(3) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING AN HMA PAVEMENT.

(4) EXTEND EXPANSION JOINT THROUGH ANY ADJACENT TIED CONCRETE.

(C) 1 ½" EXPANSION JOINT WITH DOWEL BARS NORMAL TO ℄ OR ℞.

(D) 1 ½" EXPANSION JOINT (NO DOWELS)



SECTION E - E
FOOTING DETAIL
STRUCTURAL APPROACH SLAB TO CONCRETE BRIDGE APPROACH

STRUCTURAL APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

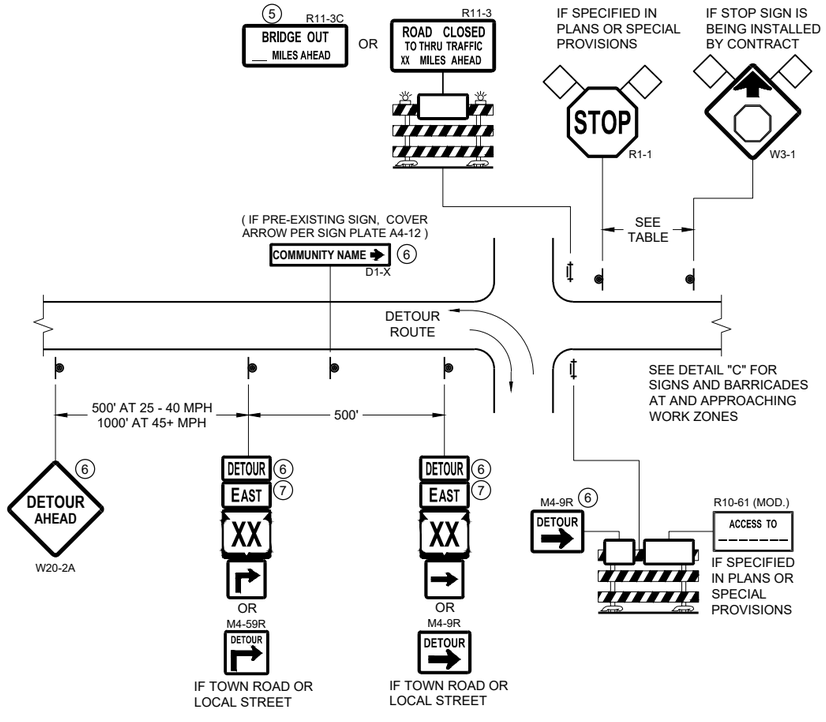
APPROVED
November 2018
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVIS

FHWA

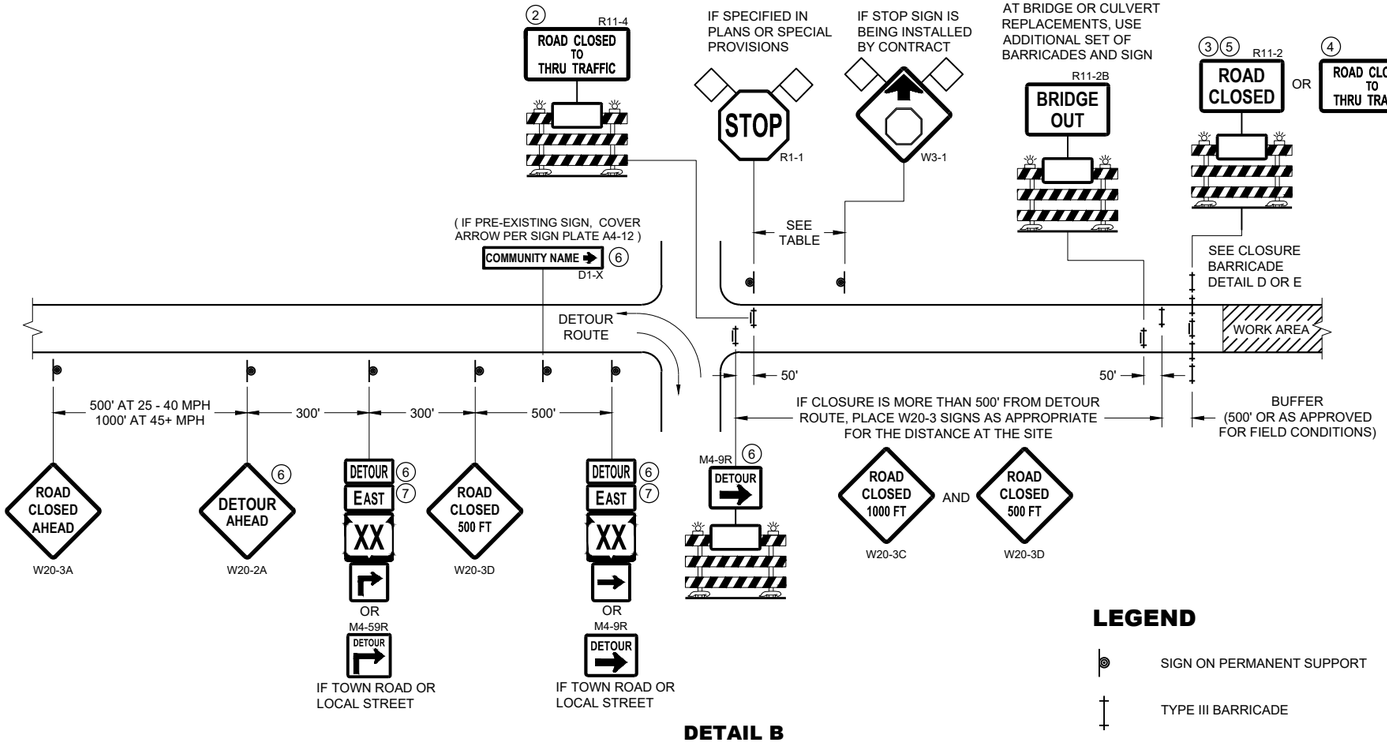
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SDD 13B02 - 09b



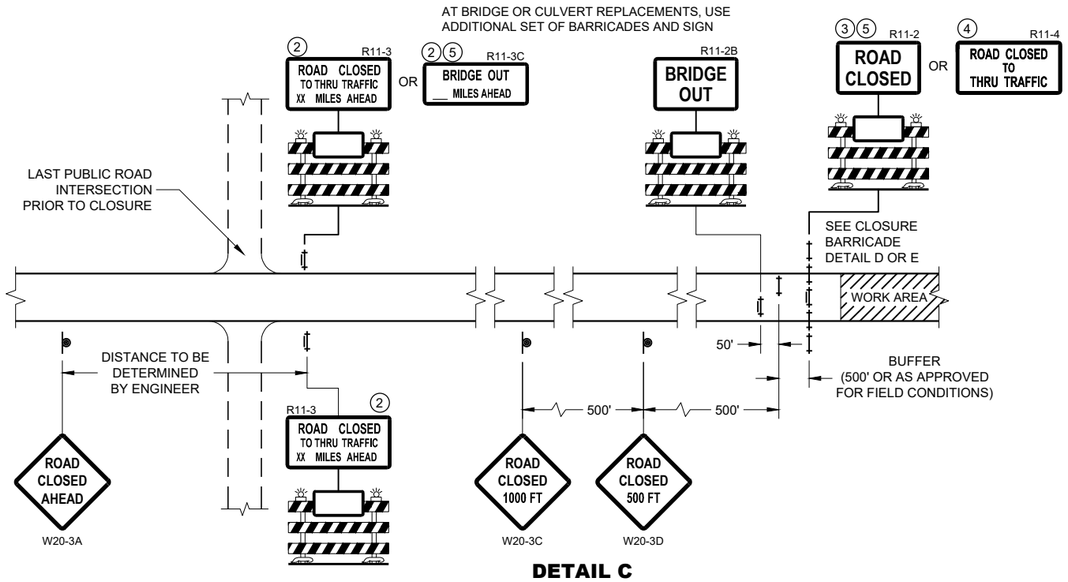
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN OR EQUAL TO ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

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

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

LEGEND

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

DETOUR M4 - 8
EAST M3 - X
XX M1 - 4 OR XX M1 - 6 OR COUNTY X M1 - 5A
M05 - 1 OR M06 - 1

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

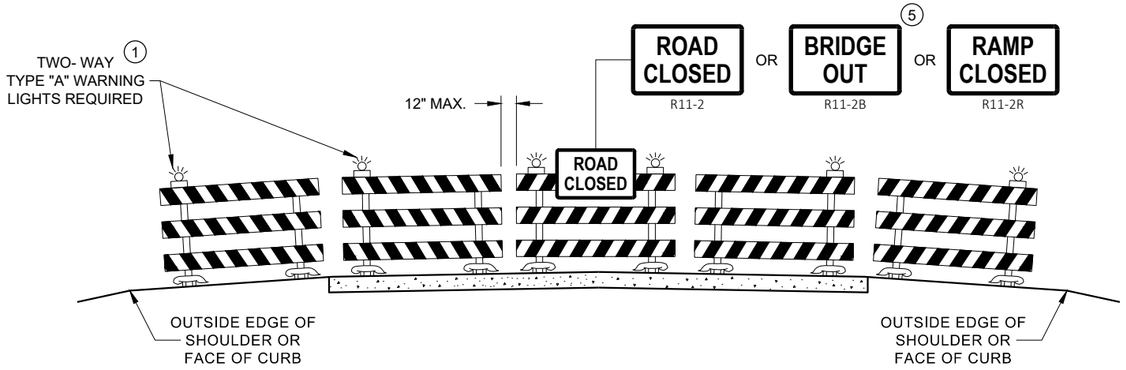
APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

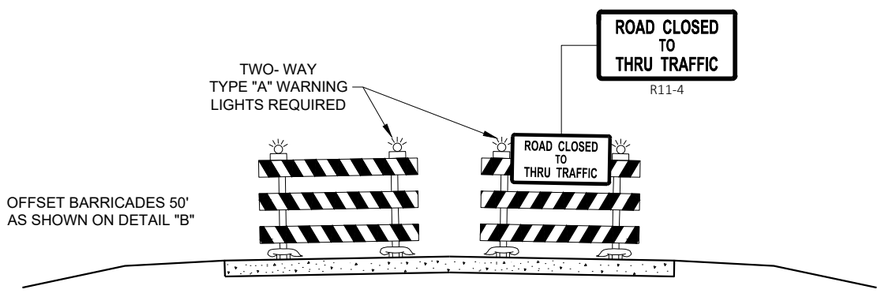
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SDD 15C02 - 08a

SDD 15C02 - 08a



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA

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SDD 15C02 - 08b

6

SDD 15C02 - 08b

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

LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DETOUR — M4 - 8
- EAST — M3 - X
- XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A
- M05 - 1 OR M06 - 1 OR M06 - 1

GENERAL NOTES

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

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

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

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

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

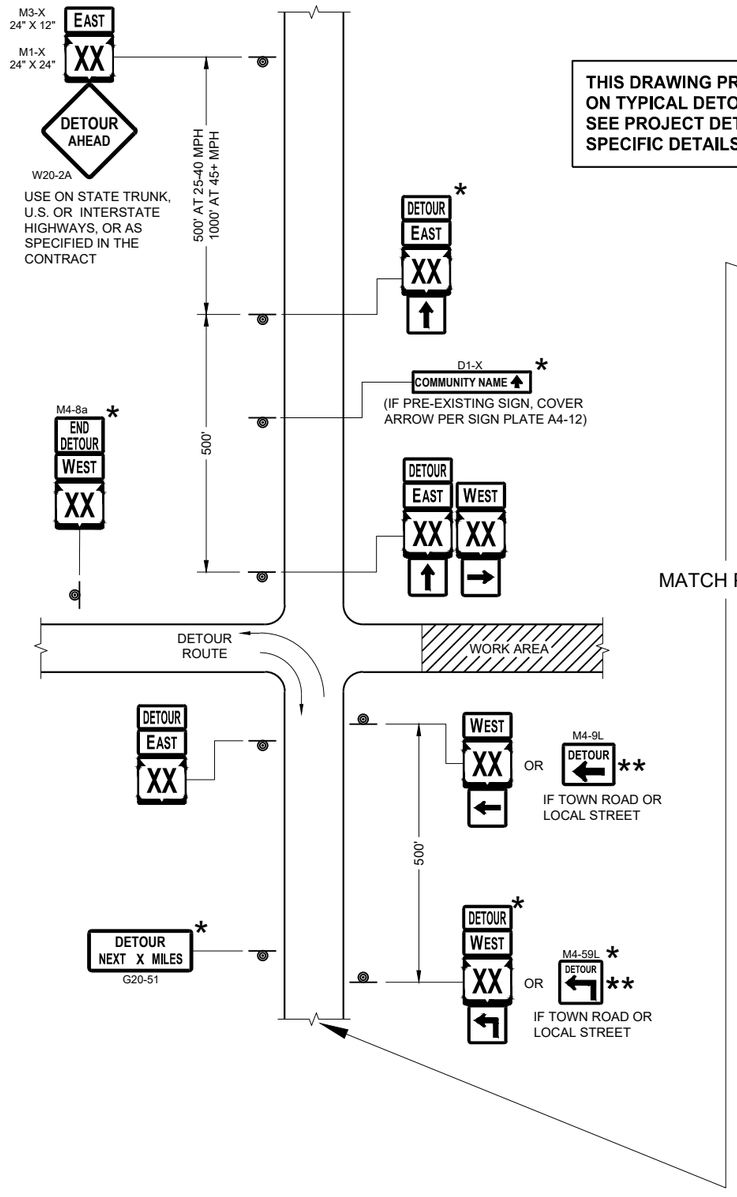
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

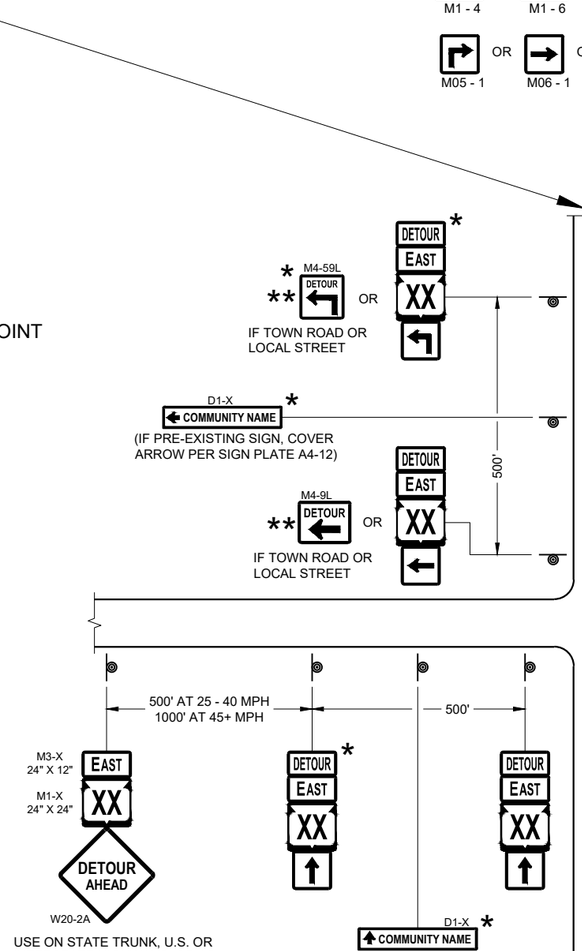
- M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-9 AND M4-59 SHALL BE 30" X 24"
- M4-8a SHALL BE 24" X 18"
- G20-51 SHALL BE 60" X 24"
- W20-2A SHALL BE 48" X 48"
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

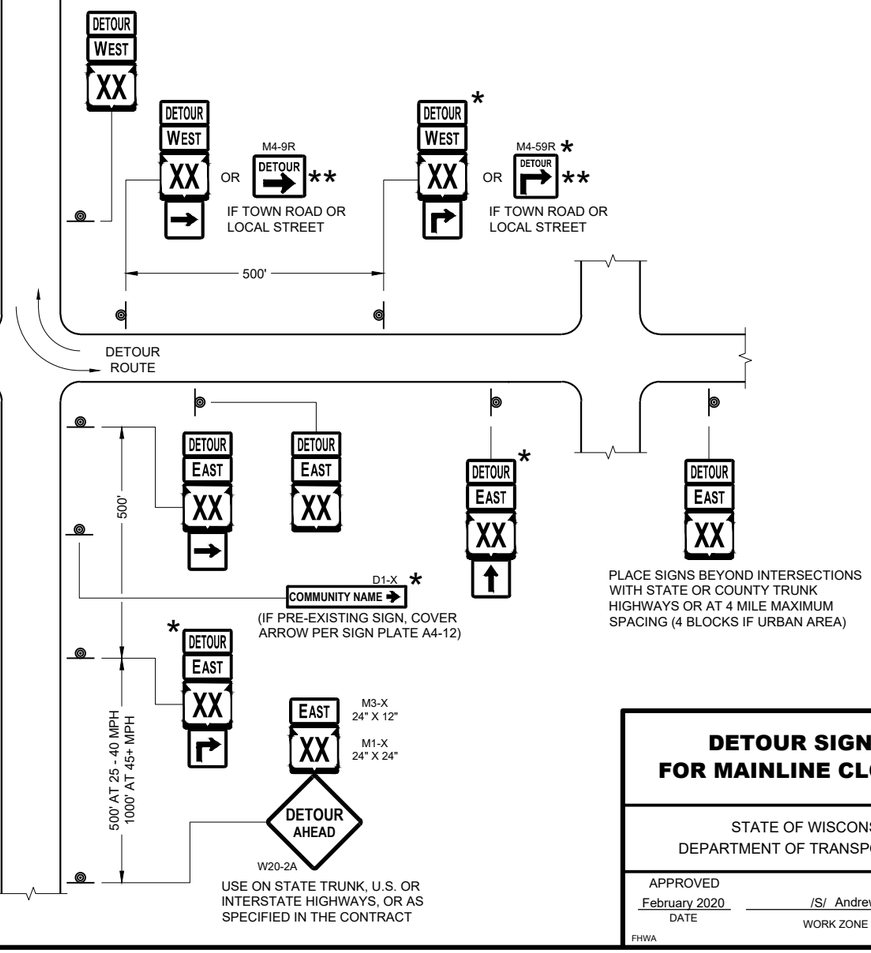
* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.



MATCH POINT





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

DETAIL F
DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

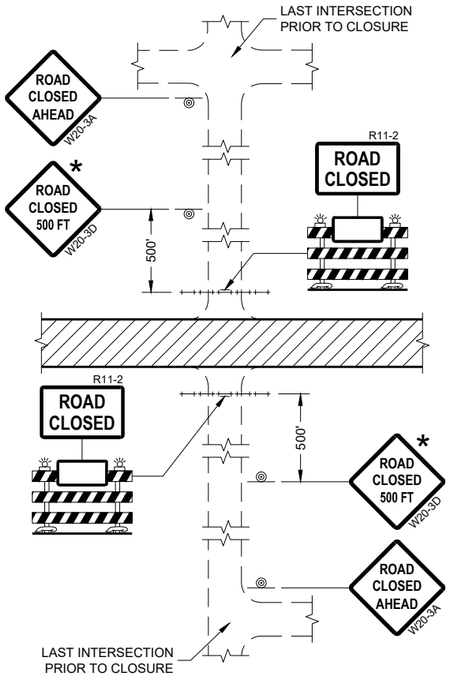
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

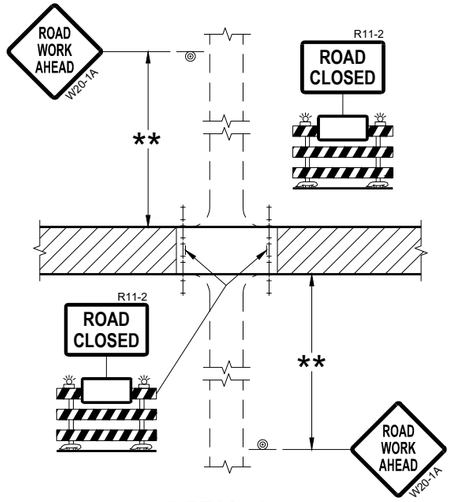
SDD 15C02 - 08c

SDD 15C02 - 08c

6



DETAIL 1
(NO ACCESS TO PROJECT)



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

GENERAL NOTES

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

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

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

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

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

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

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

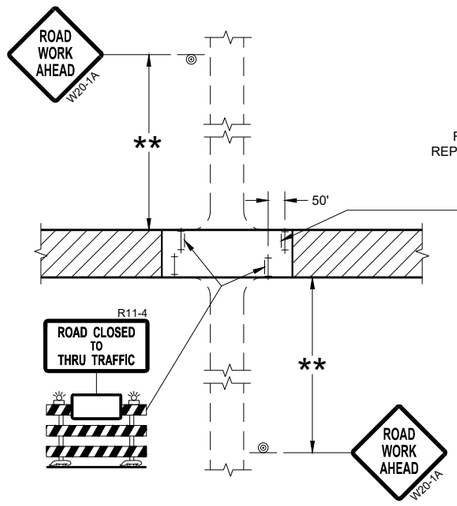
TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

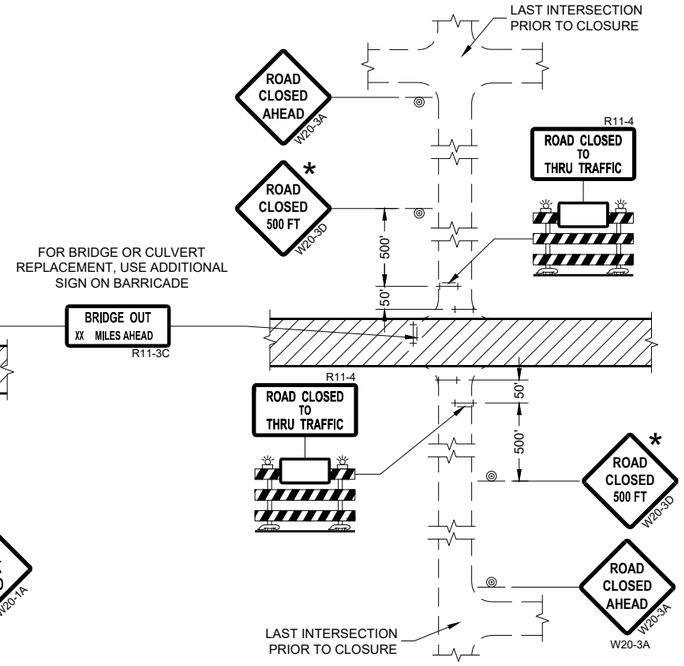
ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

* OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FEET OR LESS FROM THE WORK ZONE.

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



DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED.
CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)



DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

LEGEND

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

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

SDD 15C03 - 05

SDD 15C03 - 05

GENERAL NOTES

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

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

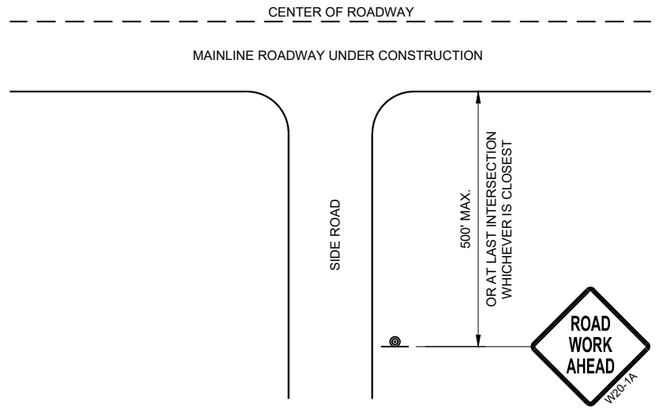
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

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

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

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

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



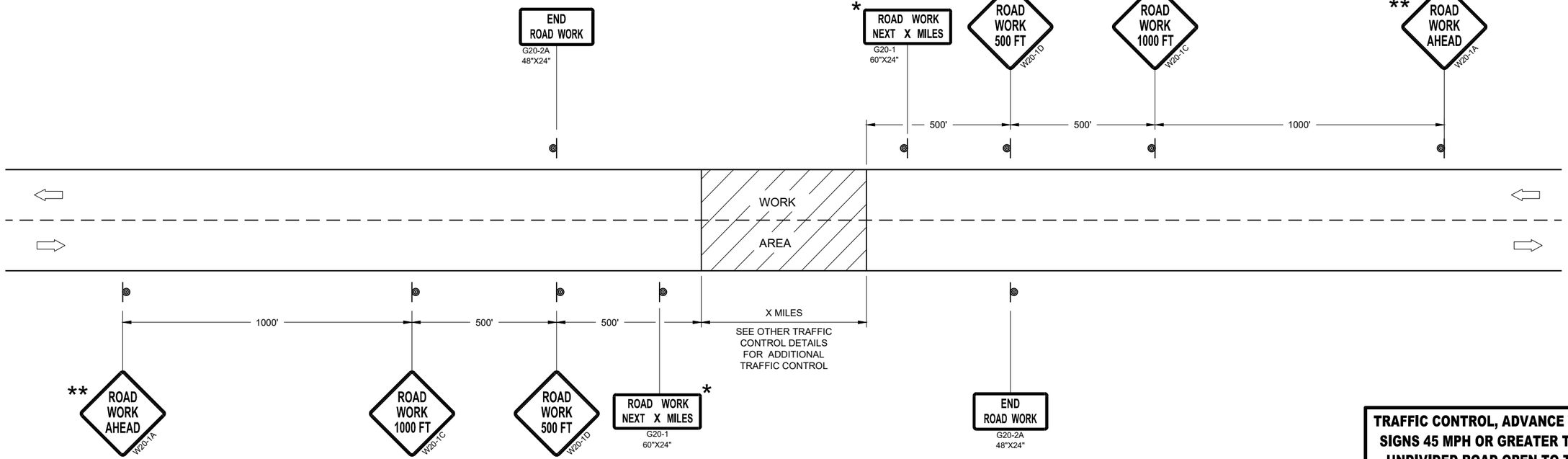
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45MPH OR GREATER

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15C04 - 05

GENERAL NOTES

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

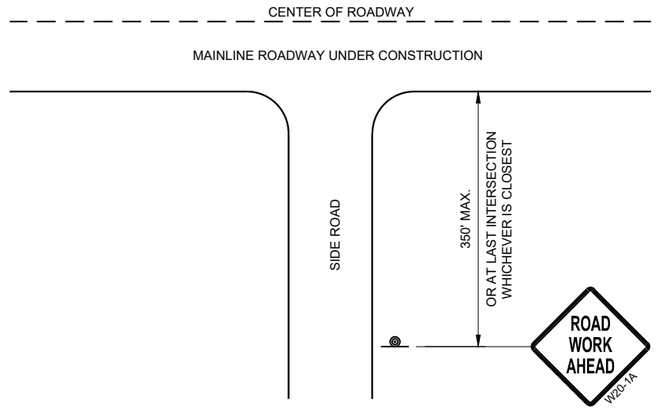
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"X36" SIGNS MAY BE USED INSTEAD OF 48" X 48" SIGNS.

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.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FEET" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



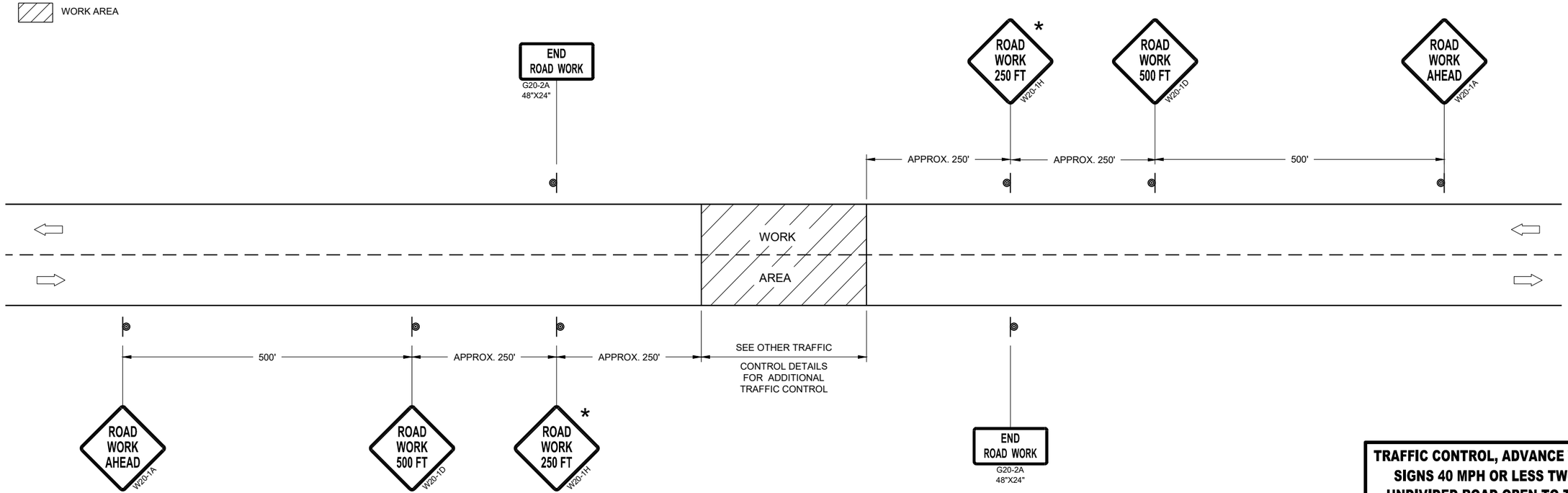
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40MPH OR LESS

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

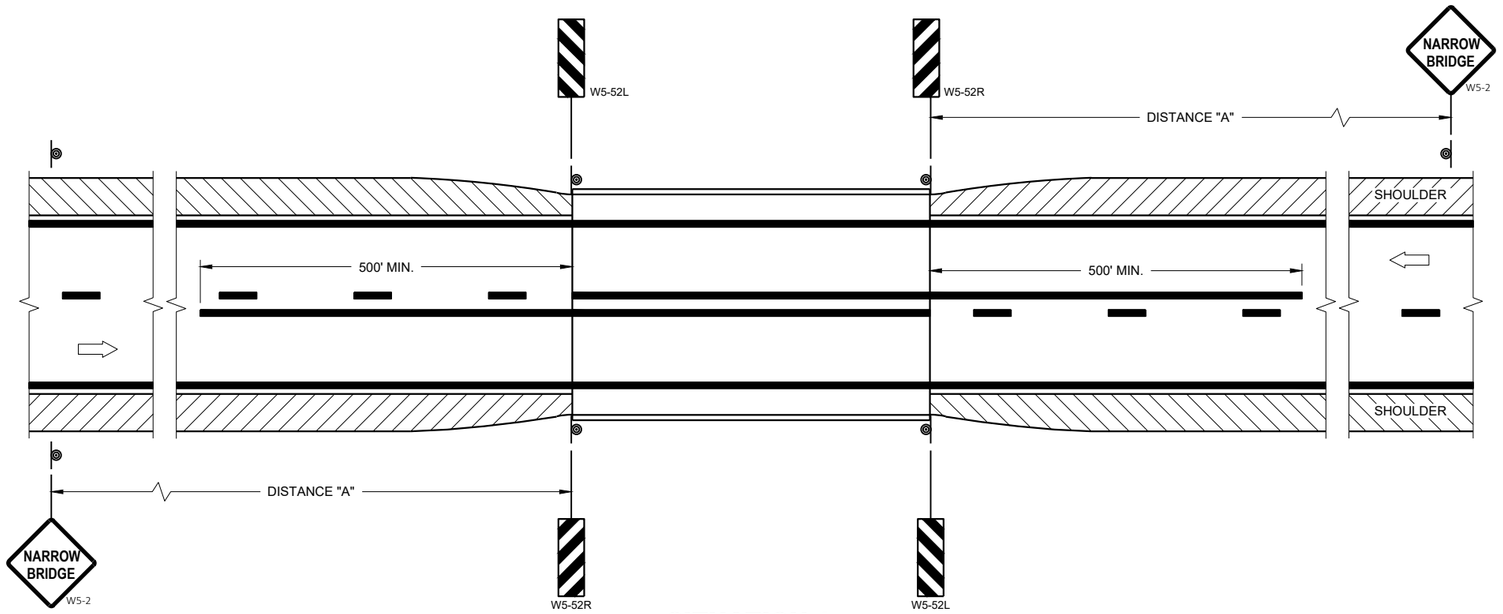
APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

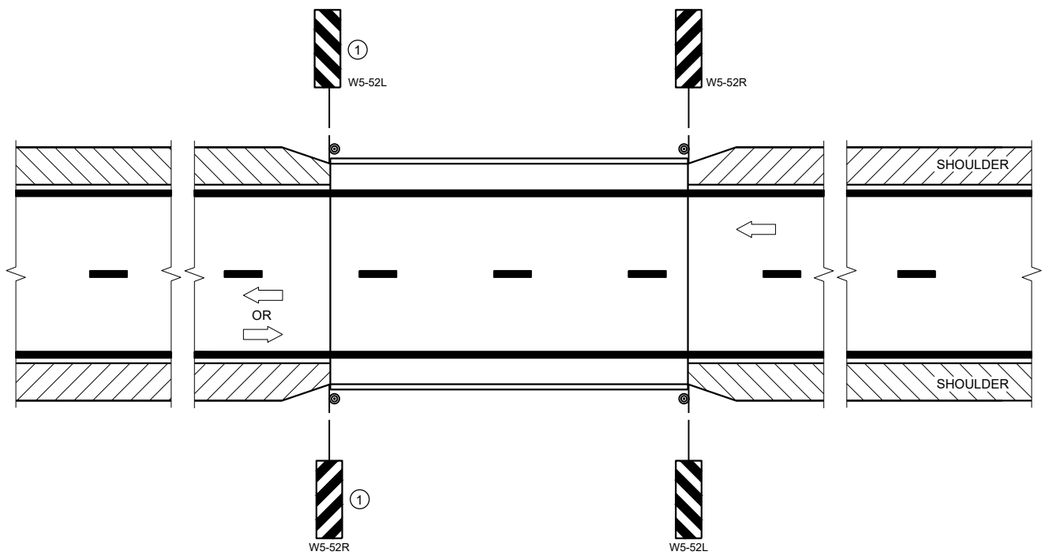
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SDD 15C05 - 05



SITUATION 1

WARRANTING CRITERIA:
BRIDGE WIDTH IS AT LEAST 16 FEET BUT LESS THAN 24 FEET.



SITUATION 2

WARRANTING CRITERIA:
1. BRIDGE WIDTH IS AT LEAST 24 FEET AND
2. BRIDGE SHOULDER WIDTH IS LESS THAN 6 FEET

GENERAL NOTES

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

LOCATE W5-52 SIGN POST(S) BEHIND GUARDRAIL WHEN PRESENT.

PLACE THE EDGE OF THE W5-52 SIGN IN LINE WITH FACE OF CURB OR PARAPET.

ON BRIDGE ONLY PROJECTS, PLACE 300 FEET OF EDGELINE.

OMIT EDGELINES ON ROADWAYS WITHOUT EXISTING EDGELINES.

(1) OMIT ON ONE-WAY TRAVELED WAYS.

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

DISTANCE TABLE

POSTED OR 85TH PERCENTILE SPEED	DISTANCE "A"
25	150'
30	200'
35	250'
40	300'
45	400'
50	550'
55	700'

SIGNING AND MARKING FOR TWO LANE BRIDGES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

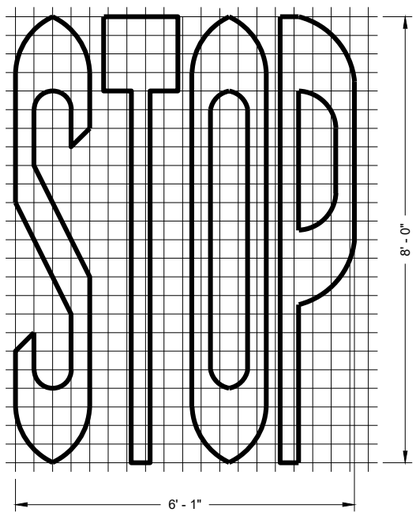
APPROVED
May 2022
DATE

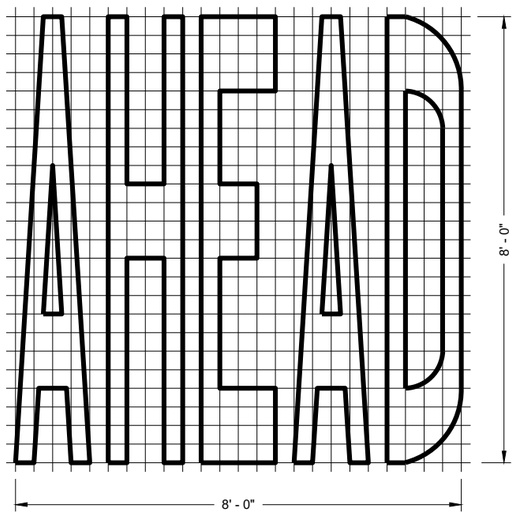
/S/ Jeannie Silver
STATE SIGNING AND MAF ENGINEER

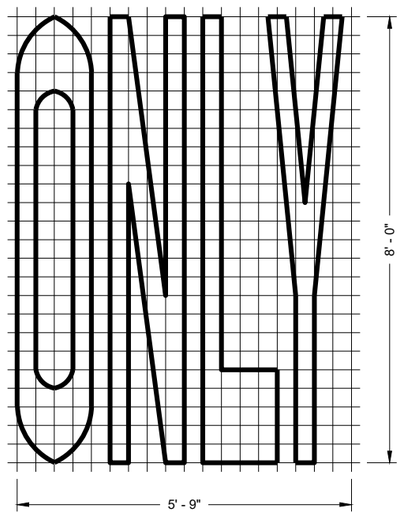
FHWA

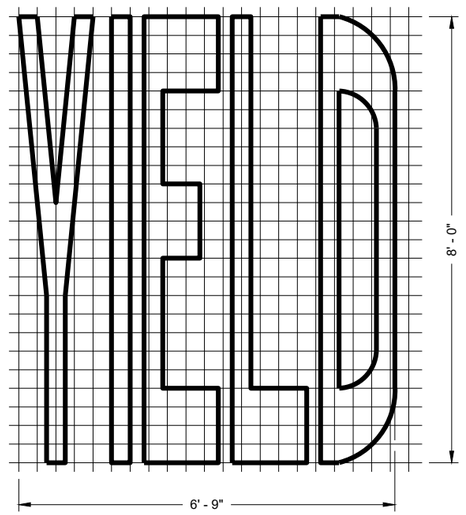
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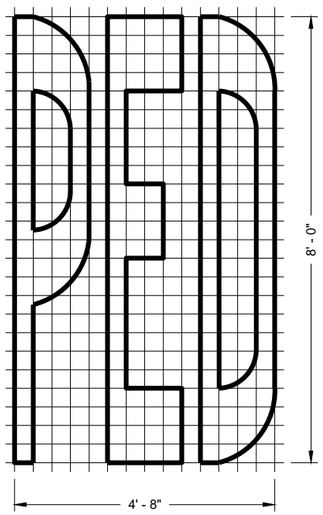
SDD 15C06 - 10

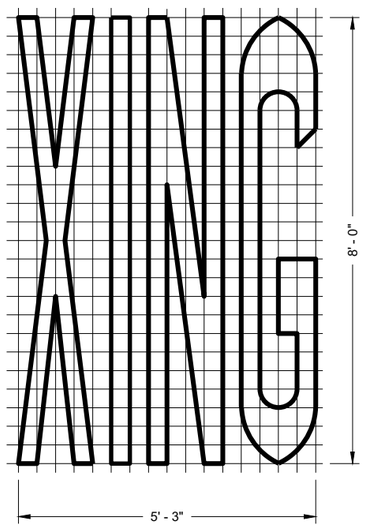


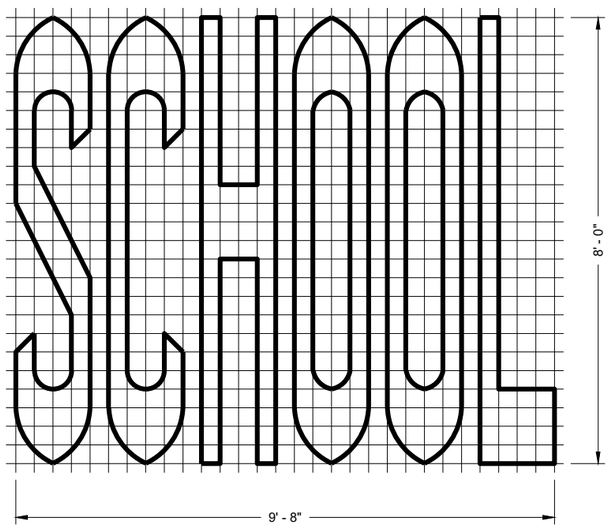




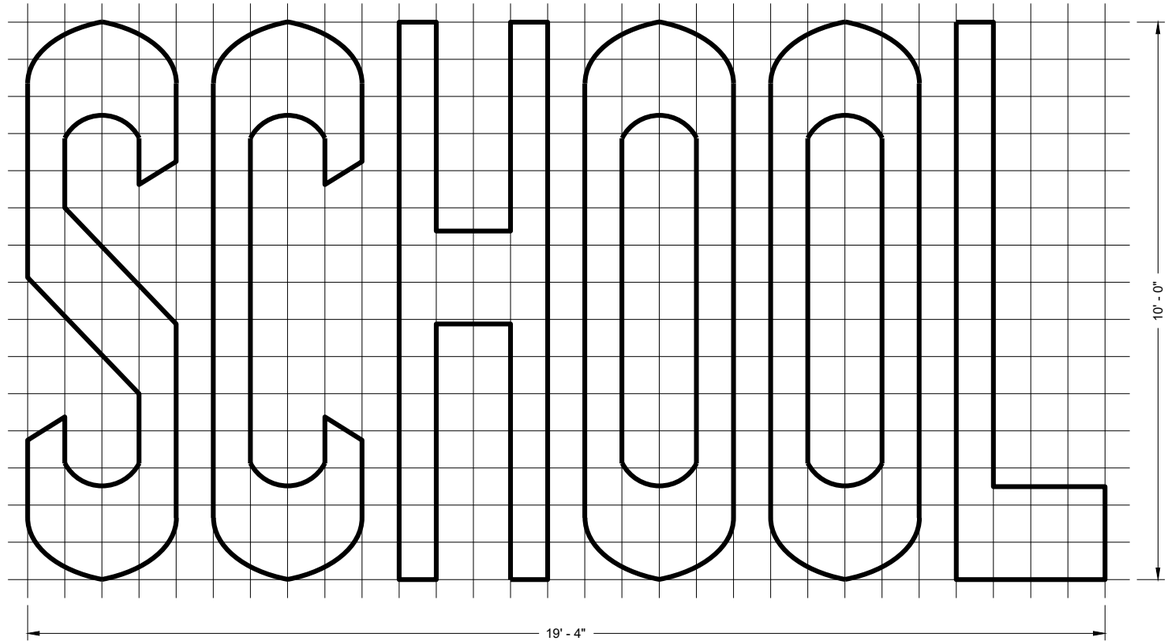








SINGLE LANE



TWO - LANE

GENERAL NOTES

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

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

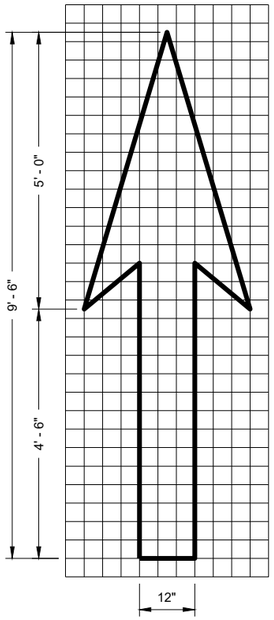
APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

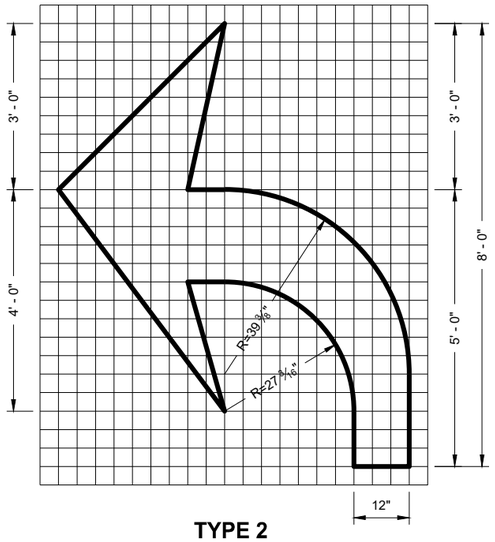
FHWA

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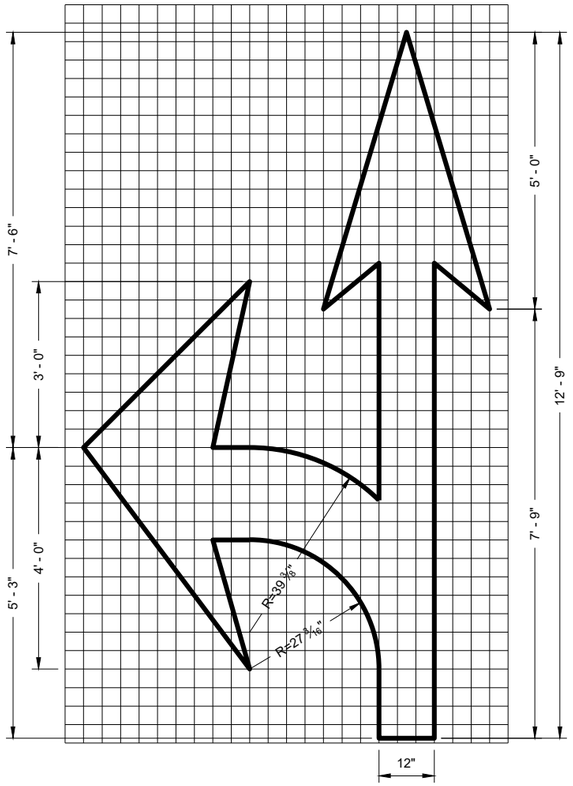
SDD 15C07 - 15b



TYPE 1



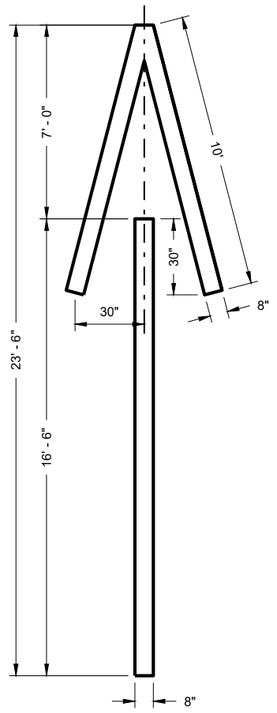
TYPE 2



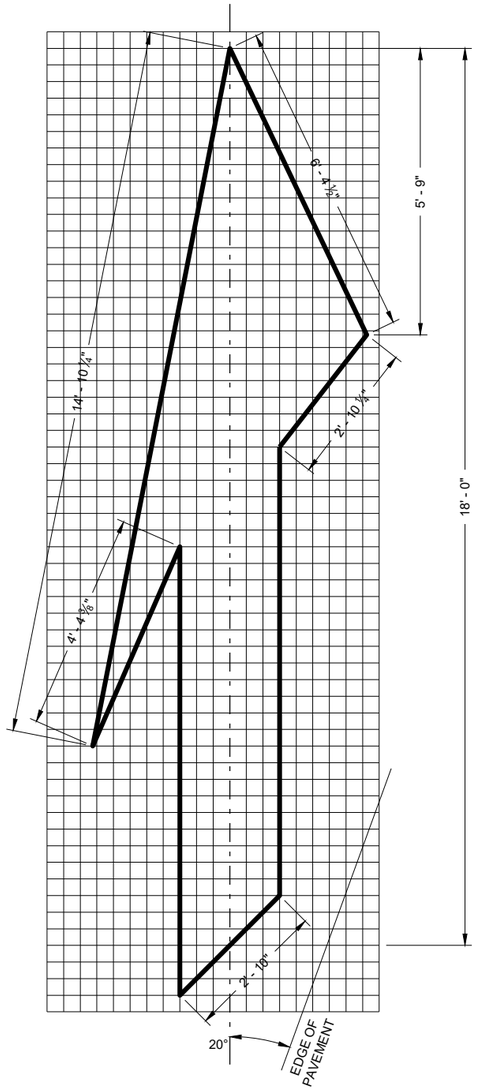
TYPE 3

GENERAL NOTES

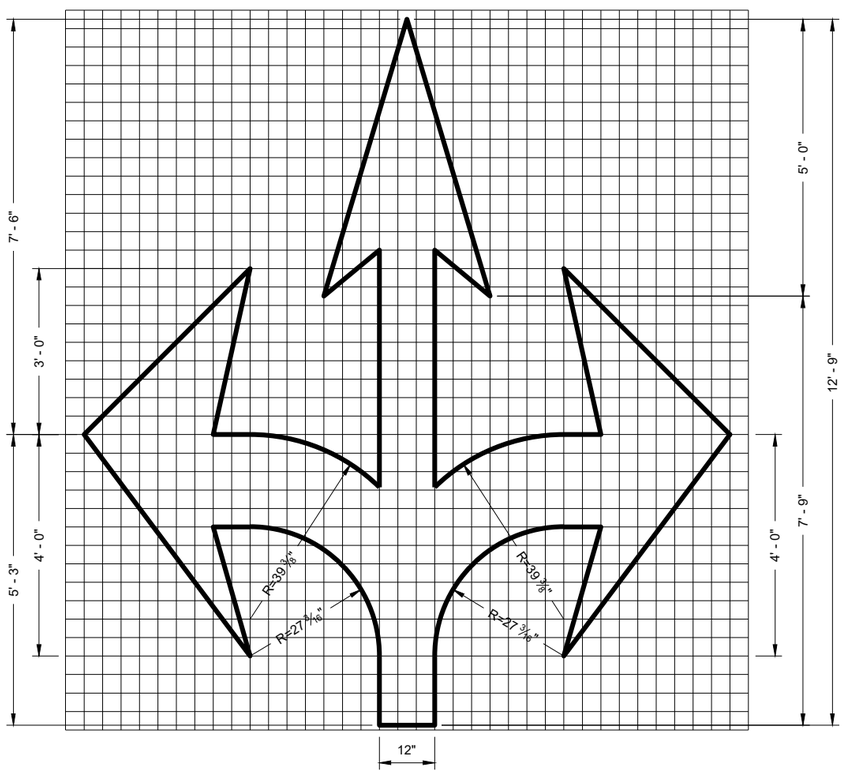
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



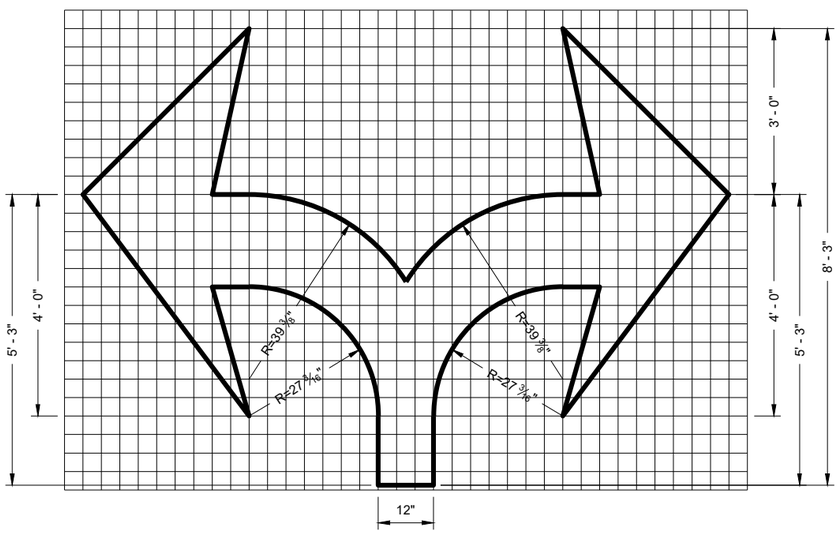
TYPE 4



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

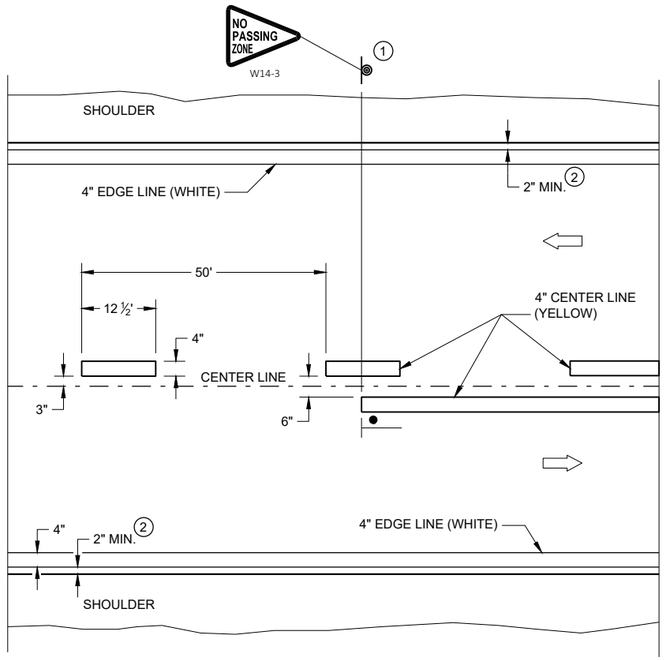
FHWA

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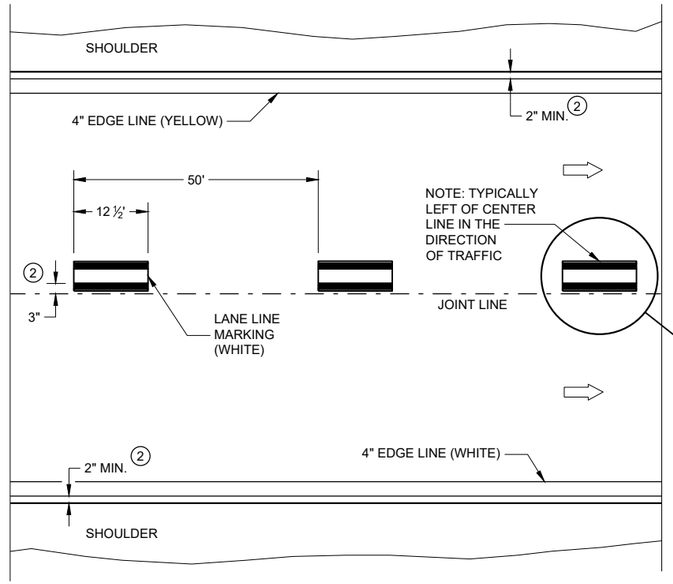
SDD 15C07 - 15c

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SDD 15C07 - 15c

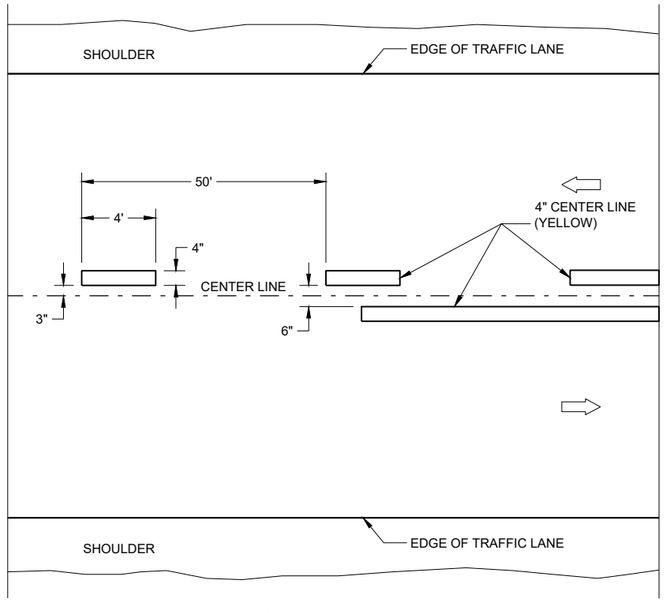


TWO WAY TRAFFIC

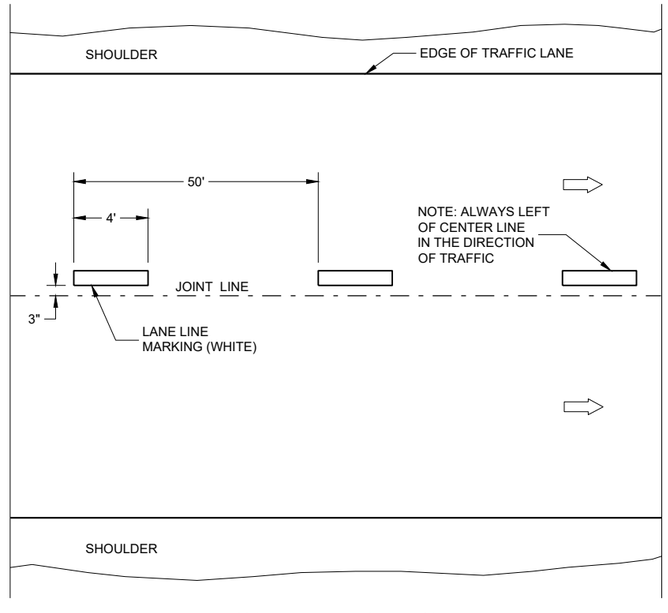


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

GENERAL NOTES

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

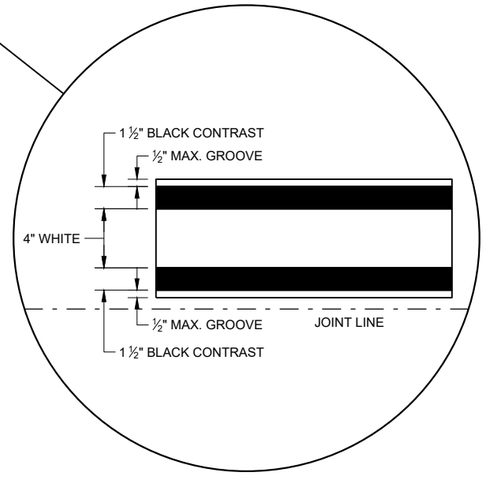
1. LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING
2. MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC



LONGITUDINAL MARKING (MAINLINE)

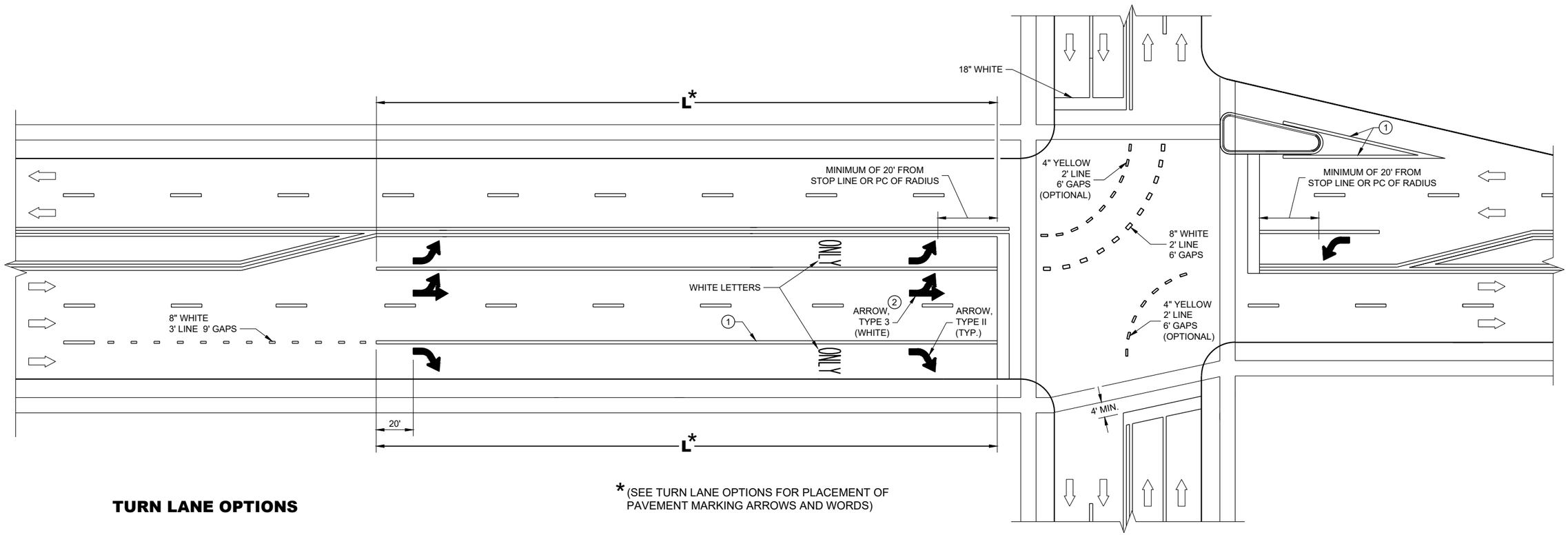
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE
/S/ Matthew Rauch
STATEWIDE SIGNING AND M
ENGINEER

FHWA

SDD 15C08 - 20a

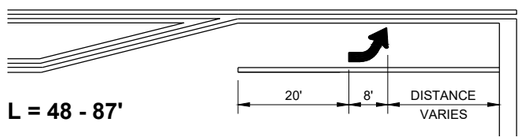
SDD 15C08 - 20a



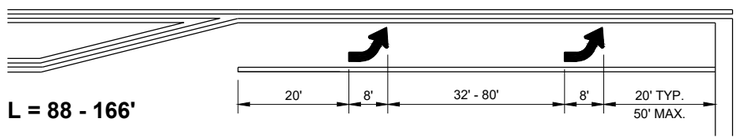
* (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

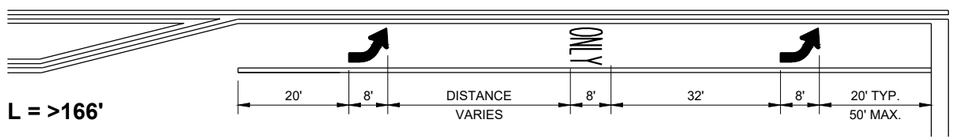
LENGTH OF TURN BAY (**L**) OF 0 - 47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48 - 87'



L = 88 - 166'



L = >166'

GENERAL NOTES

1. 8" WHITE
2. QUANTITY AND LOCATION OF TYPE 3 ARROWS ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION IN THE SAME DIRECTION OF TRAVEL, THE ARROWS AND "ONLY" MARKING MAY BE ELIMINATED.

DIRECTION OF TRAFFIC

L = LENGTH OF TURN BAY

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
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SDD 15C08 - 20c

GENERAL NOTES

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

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

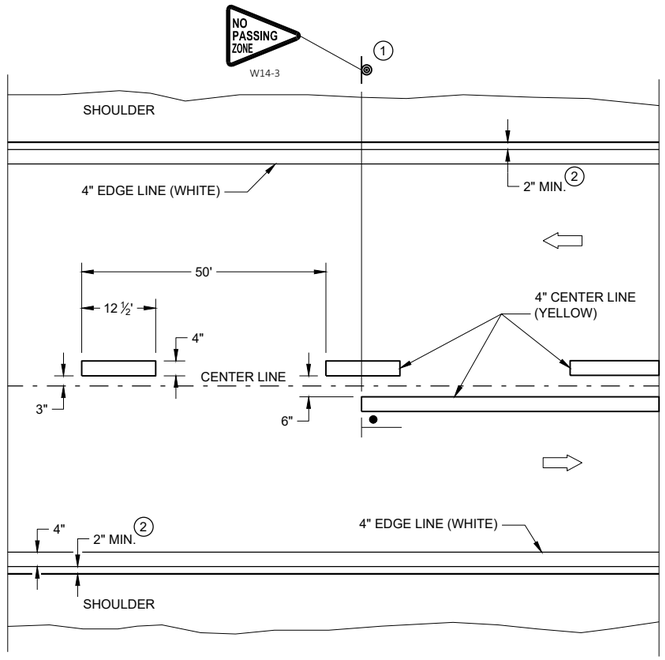
(2) MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

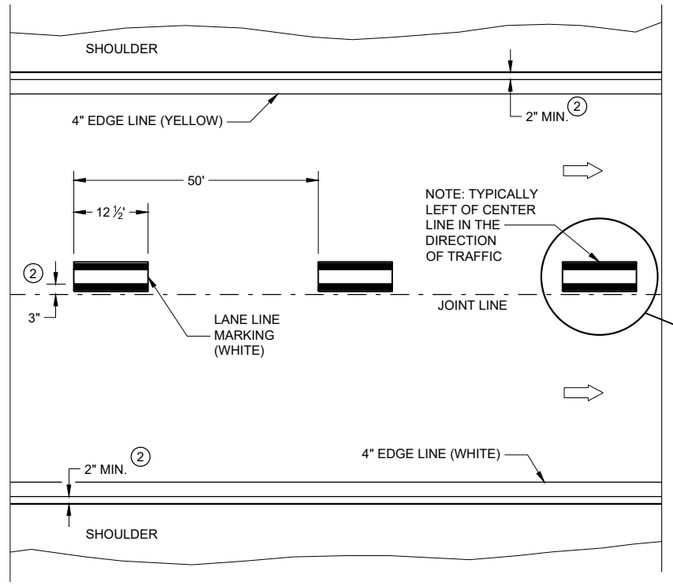
"T" MARKING

SIGN ON PERMANENT SUPPORT

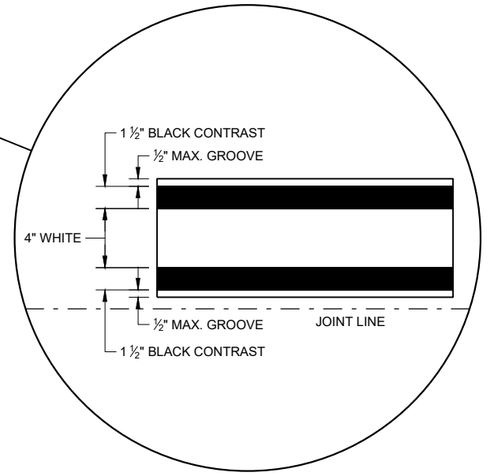
DIRECTION OF TRAFFIC



TWO WAY TRAFFIC



ONE WAY TRAFFIC



PERMANENT PAVEMENT MARKING

PERMANENT LONGITUDINAL PAVEMENT MARKINGS

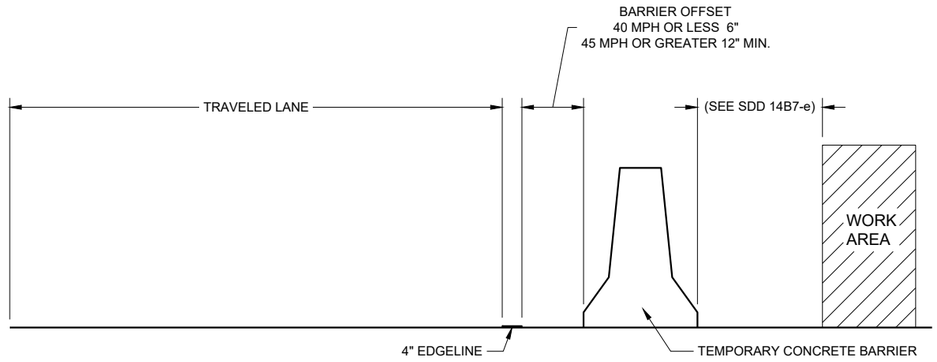
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022 — DATE
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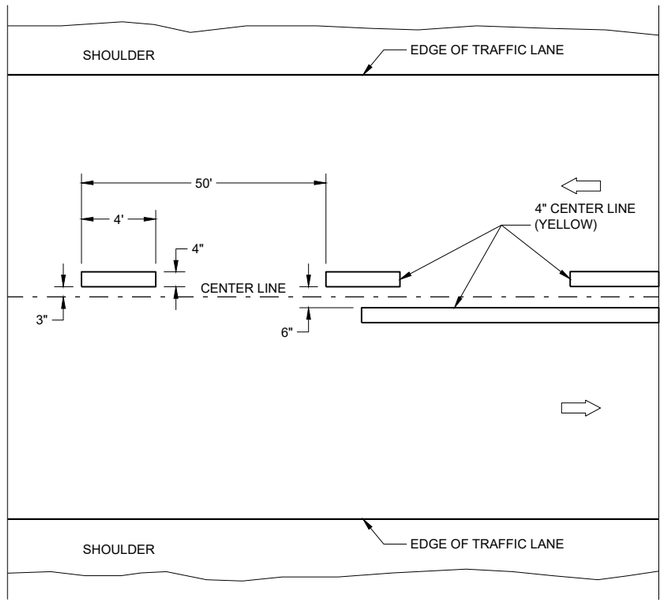
TEMPORARY BARRIER OFFSET FROM EDGELINE

GENERAL NOTES

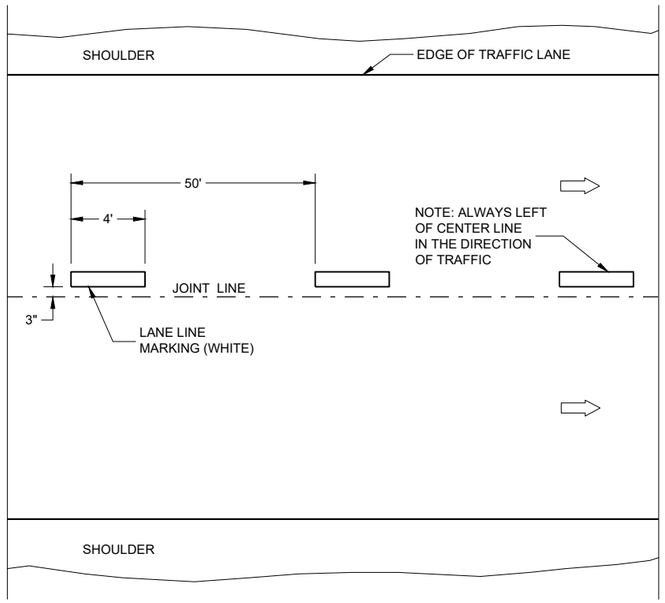
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

LEGEND

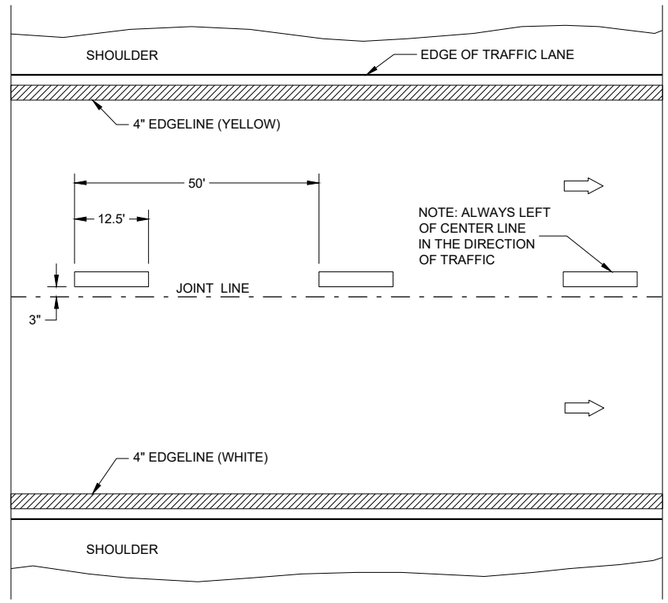
DIRECTION OF TRAFFIC



TWO WAY TRAFFIC



ONE WAY TRAFFIC



FREEWAYS AND EXPRESSWAYS

TEMPORARY PAVEMENT MARKING

6

SDD 15C08 - 21b

TEMPORARY LONGITUDINAL PAVEMENT MARKING

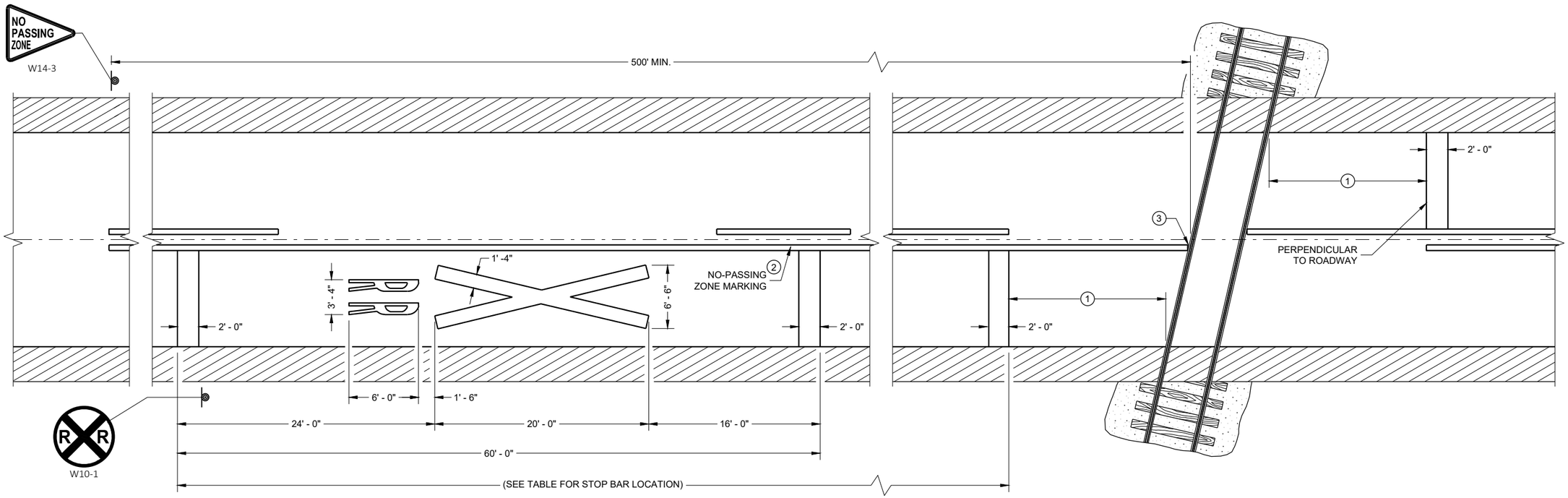
STATE OF WISCONSIN
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May 2022 — DATE
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PAVEMENT MARKING

LEGEND

SIGN ON PERMANENT SUPPORT

GENERAL NOTES

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

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

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

TRACE EXISTING SYMBOL WHERE EXISTING SYMBOLS ARE PLACED.

(1) MINIMUM 8' FROM ANY RAILROAD WARNING DEVICES (SIGNAL , GATES, ETC.) OR 25' FROM THE NEAREST RAIL, WHICHEVER DISTANCE IS GREATER.

(2) 500' MINIMUM. MARKING LIMITS MAY BE EXTENDED AS DIRECTED BY THE ENGINEER TO MEET ADJACENT NO-PASSING ZONE MARKINGS.

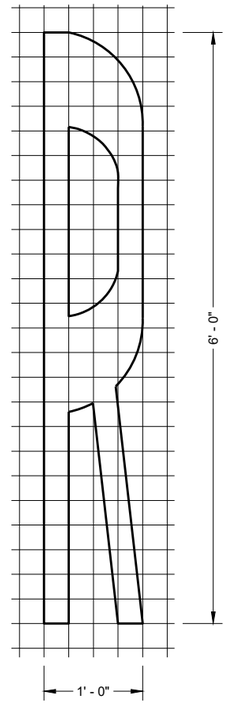
(3) FOR MULTIPLE TRACK CROSSINGS, THE BARRIER LINE SHALL EXTEND TO THE NEAR RAIL OF THE FURTHEST TRACK IN THE DIRECTION OF HIGHWAY TRAVEL.

DISTANCE TABLE

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

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

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



SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD - HIGHWAY GRADE CROSSINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MARKING ENGINEER

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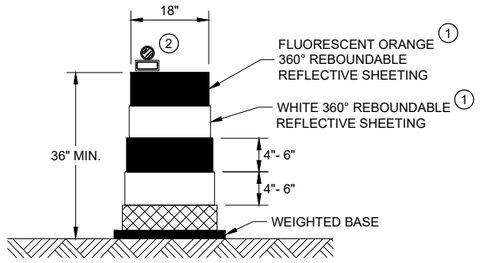
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SDD 15C09 - 12a

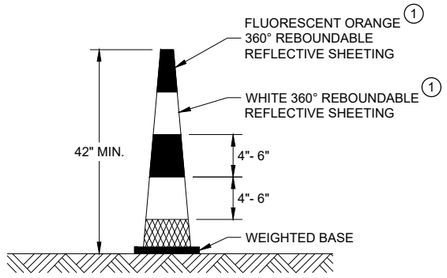
SDD 15C09 - 12a

GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.

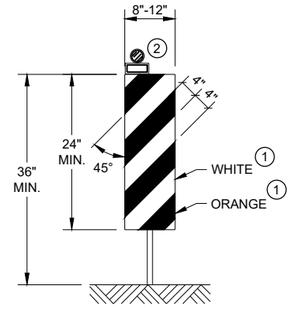


DRUM



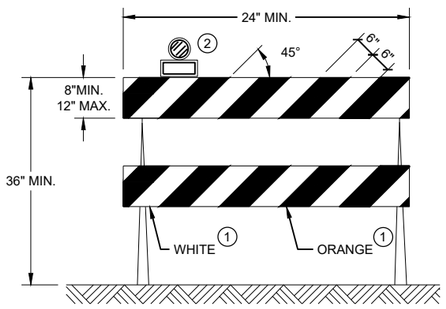
42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS



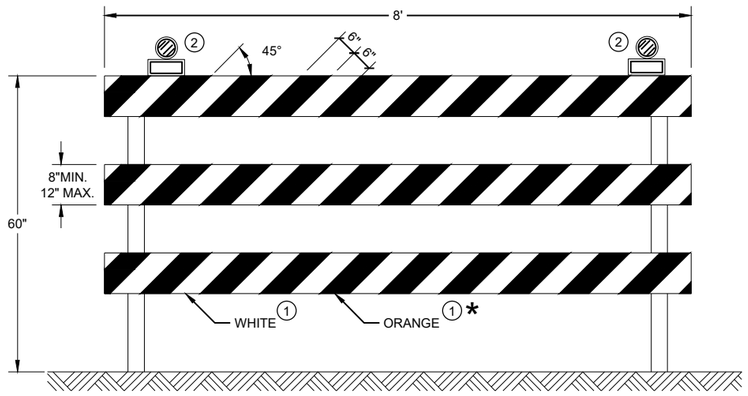
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO
THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP
TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2021
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

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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.

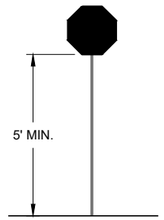
(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

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

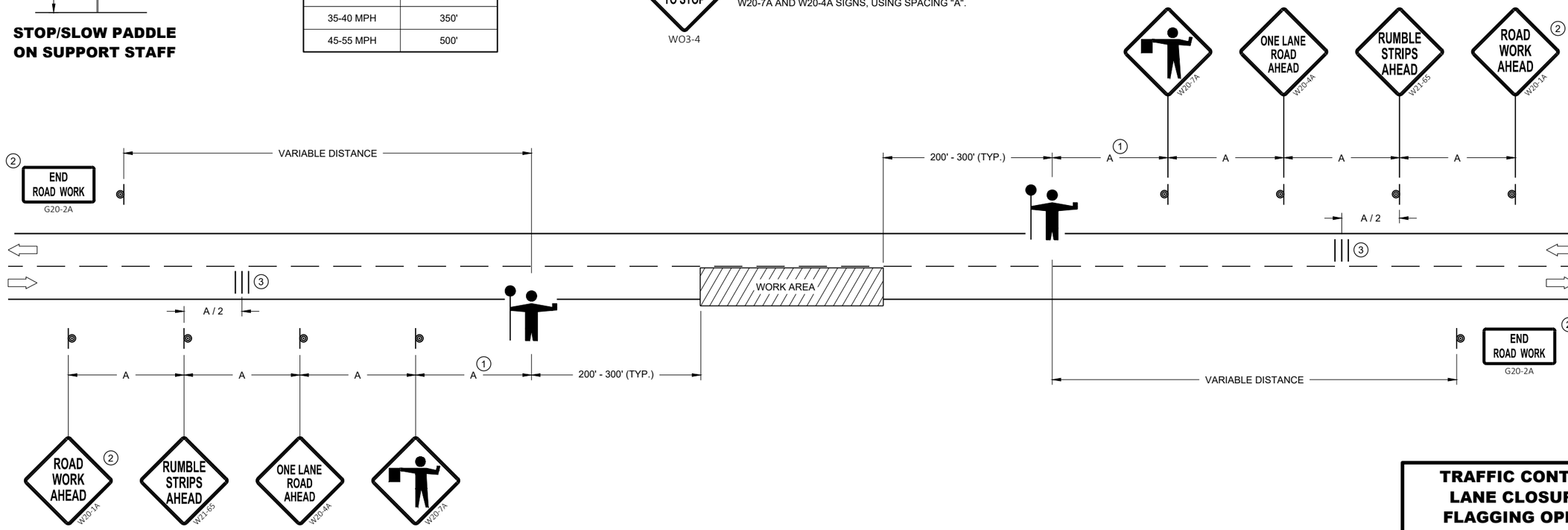
SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

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

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SDD 15C12 - 09a

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SDD 15C12 - 09a

LEGEND

V1 LEAD VEHICLE

V2 MARKING VEHICLE

V3 SHADOW VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

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 OPERATING IN CAUTION MODE. 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.

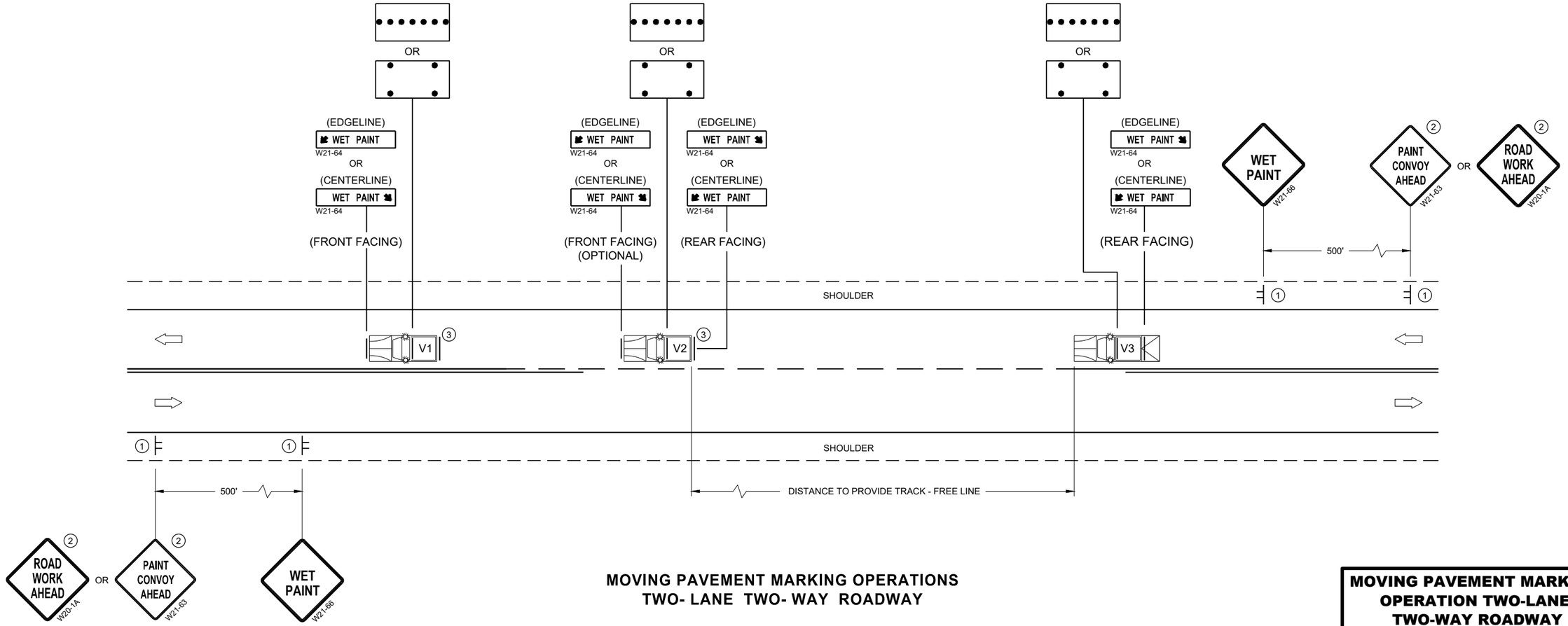
THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

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 OF 28" FOR WET PAVEMENT MARKING .

1. SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.
2. IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.
3. V1 AND V2 CAN BE SWITCHED SO THAT THE MARKER IS THE LEAD VEHICLE.



MOVING PAVEMENT MARKING OPERATIONS TWO- LANE TWO- WAY ROADWAY

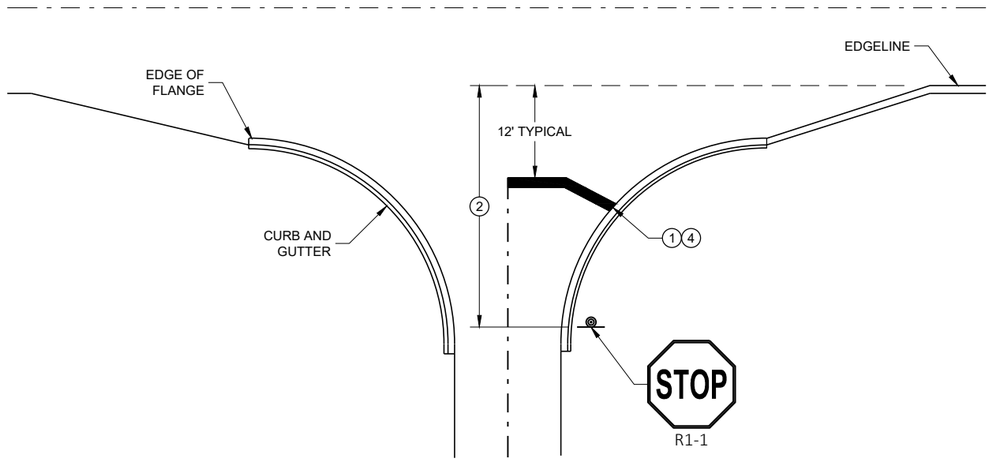
MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2022 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEE
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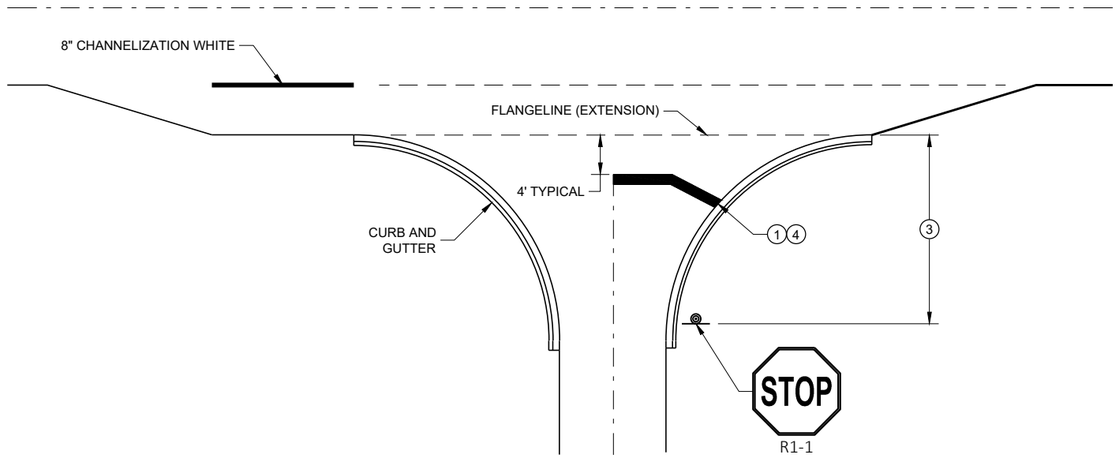
GENERAL NOTES

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

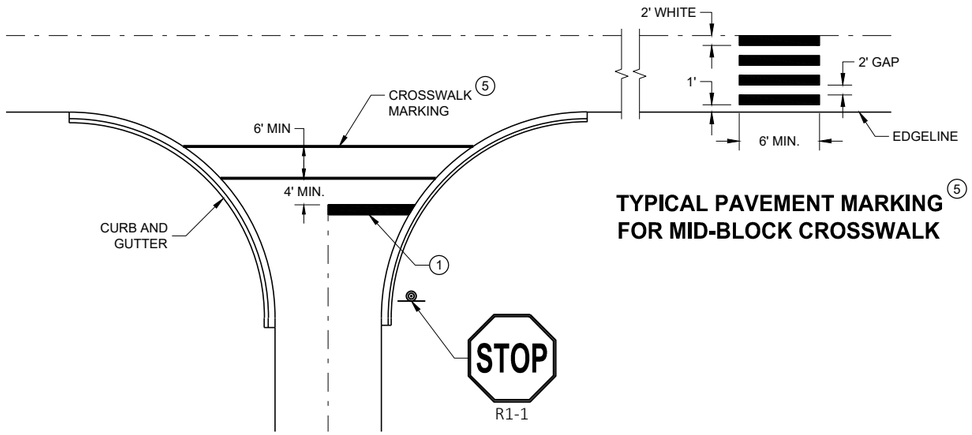
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE 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

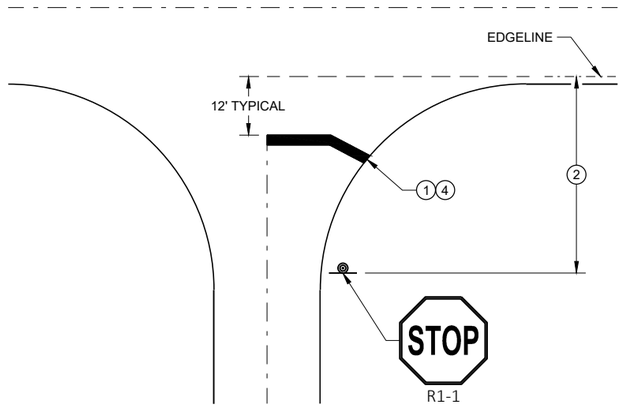


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



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

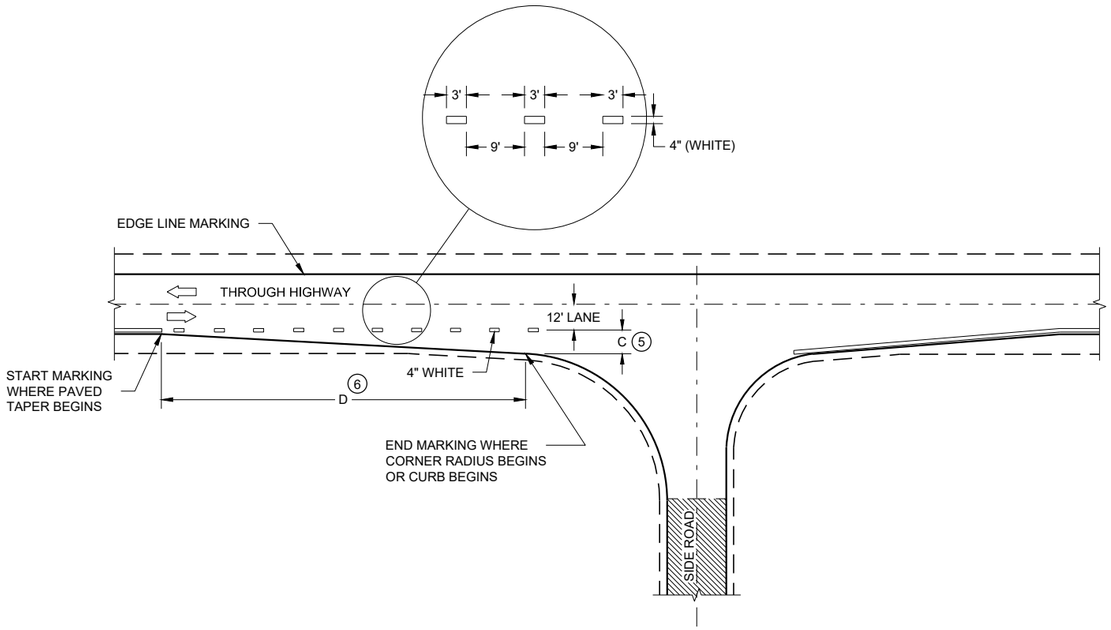
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SDD 15C33 - 04



MINOR INTERSECTION

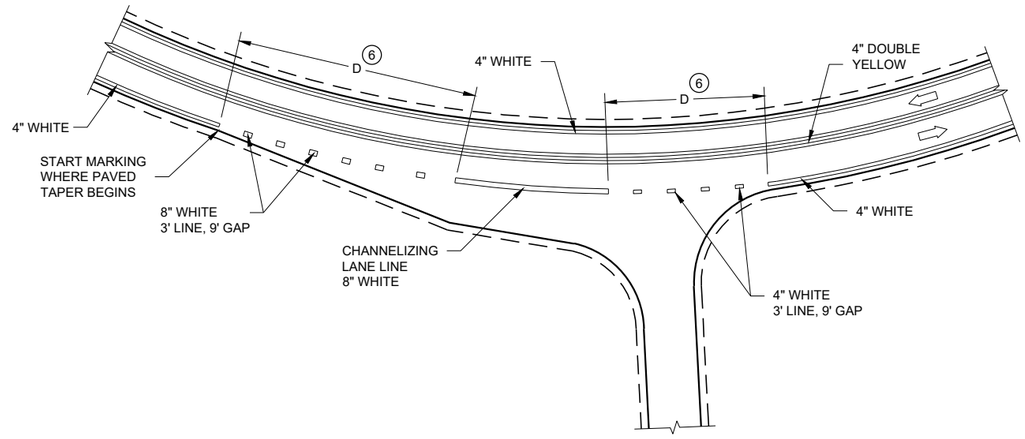
GENERAL NOTES

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

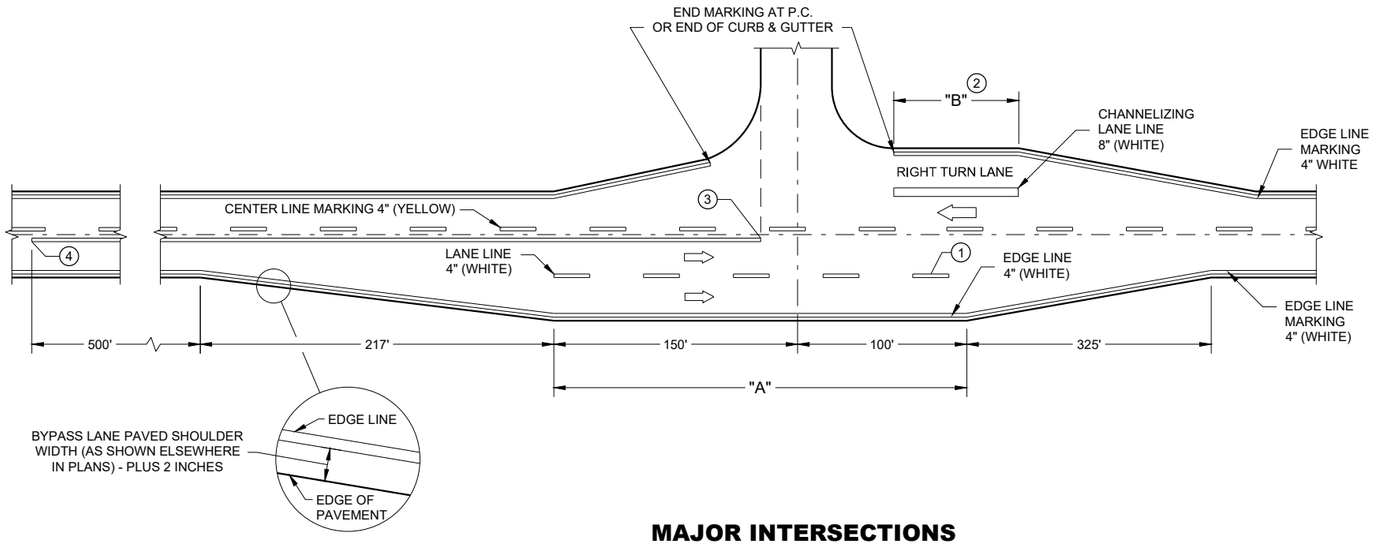
1. WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
2. WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
3. BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
4. BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.
5. WHEN DISTANCE "C" IS LESS THAN 4 FEET,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

LEGEND

DIRECTION OF TRAVEL



INTERSECTION ON OUTSIDE OF CURVE



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

PAVEMENT MARKING (INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA

6

SDD 15C35 - 05a

GENERAL NOTES

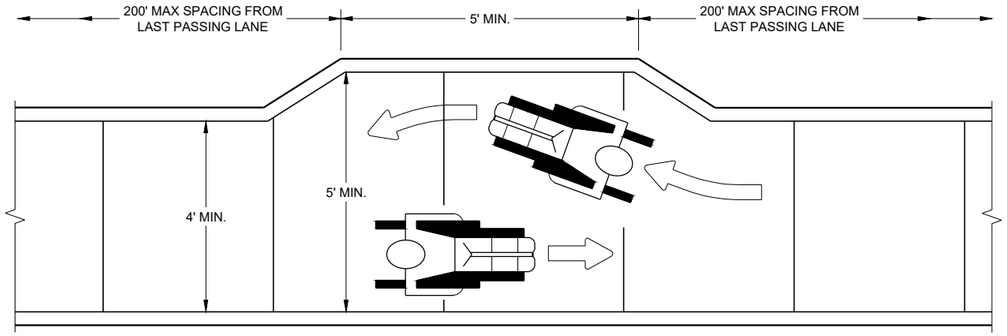
BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

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

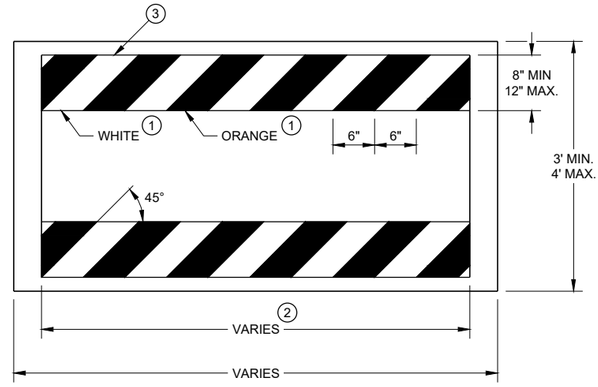
(2) SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.

(3) PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.

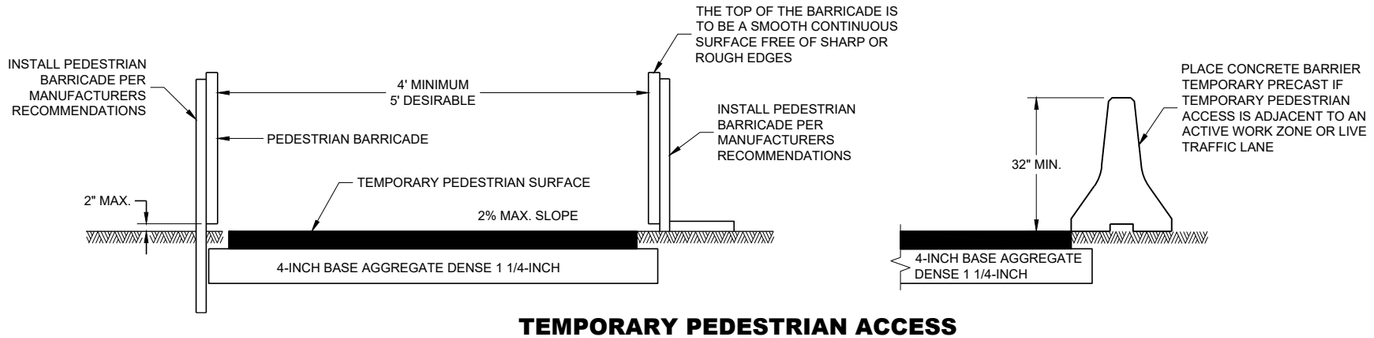
* USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.



NARROW SIDEWALK PASSING DETAIL



TEMPORARY PEDESTRIAN BARRICADE*



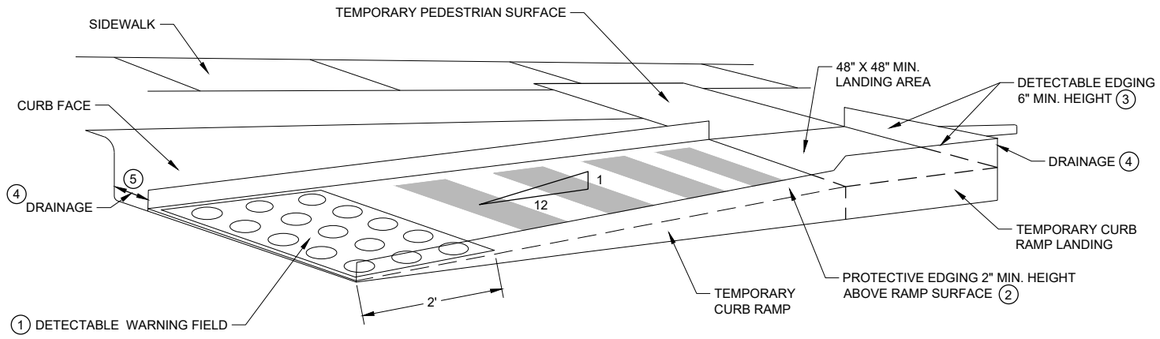
TEMPORARY PEDESTRIAN ACCESS

6

SDD 15D30 - 07a

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



PERSPECTIVE VIEW

GENERAL NOTES

CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.

CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES MAY BE VERTICAL UP TO ¼" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN ¼" AND ½".

(1) INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN THE PLANS.

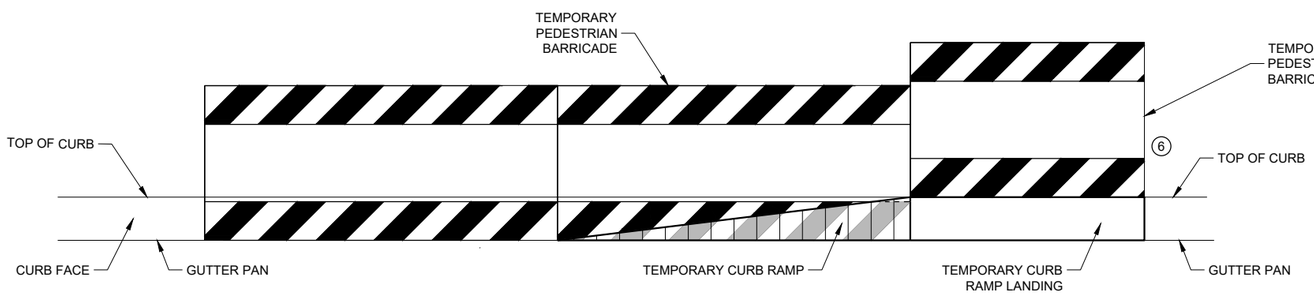
(2) PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

(3) DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

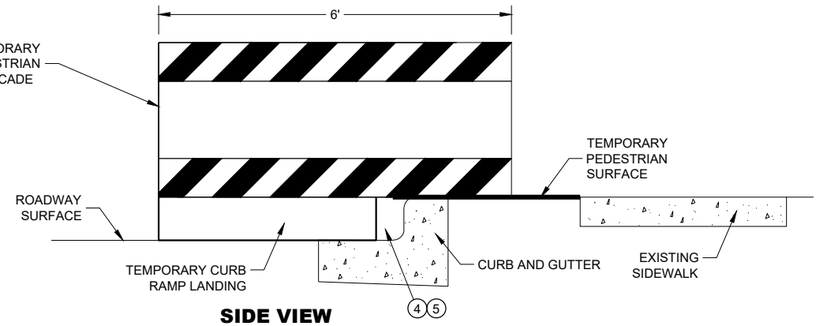
(4) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

(5) 6" MINIMUM BETWEEN CURB FACE AND EDGE OF RAMP

(6) IF ONLY PART OF THE END PANEL OF TEMPORARY PEDESTRIAN BARRICADE PANEL IS NEEDED, EXTEND EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL HERE.



FRONT VIEW



SIDE VIEW

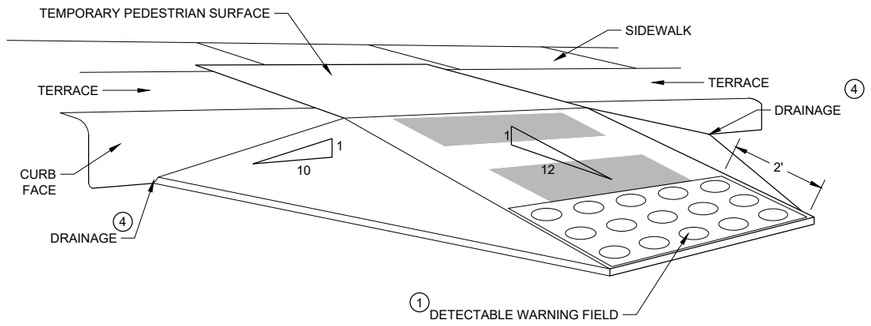
TEMPORARY CURB RAMP PARALLEL TO CURB

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

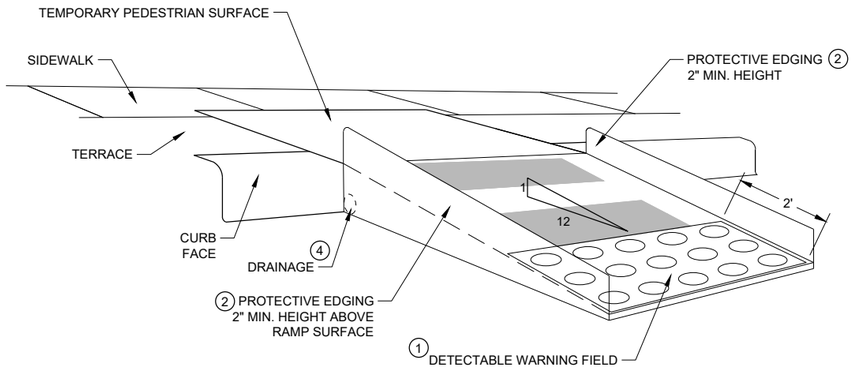
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15D30 - 07b



WITH SIDE APRON (5)



WITH PROTECTIVE EDGE

TEMPORARY CURB RAMP PERPENDICULAR TO CURB

GENERAL NOTES

CURB RAMPS SHALL BE 48" MINIMUM WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.

LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES MAY BE VERTICAL UP TO ¼" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN ¼" AND ½".

(1) INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN THE PLANS

(2) PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

(3) DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

(4) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

(5) CAN ONLY BE USED FOR RAMPS WITH 6" OR LESS OF VERTICAL CHANGE.

6

SDD 15D30 - 07c

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

GENERAL NOTES

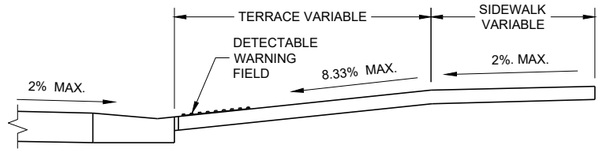
BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

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

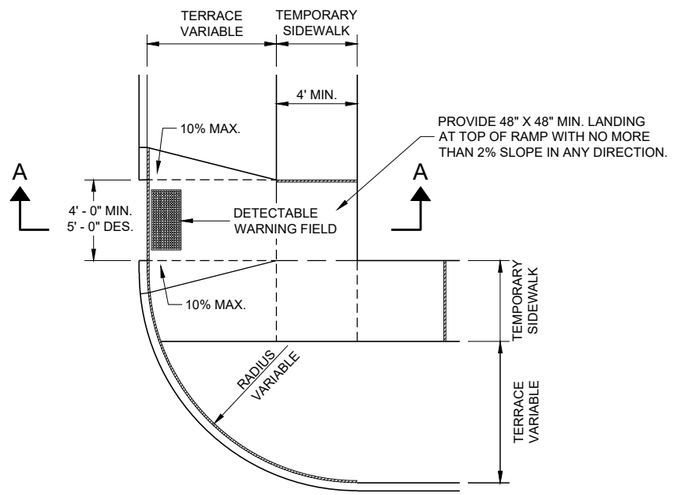
(2) SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.

(3) PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.

* USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.



SECTION A - A



PLAN VIEW

TEMPORARY TYPE 3 RAMP

(OUTSIDE OF CROSSWALK AREA)

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

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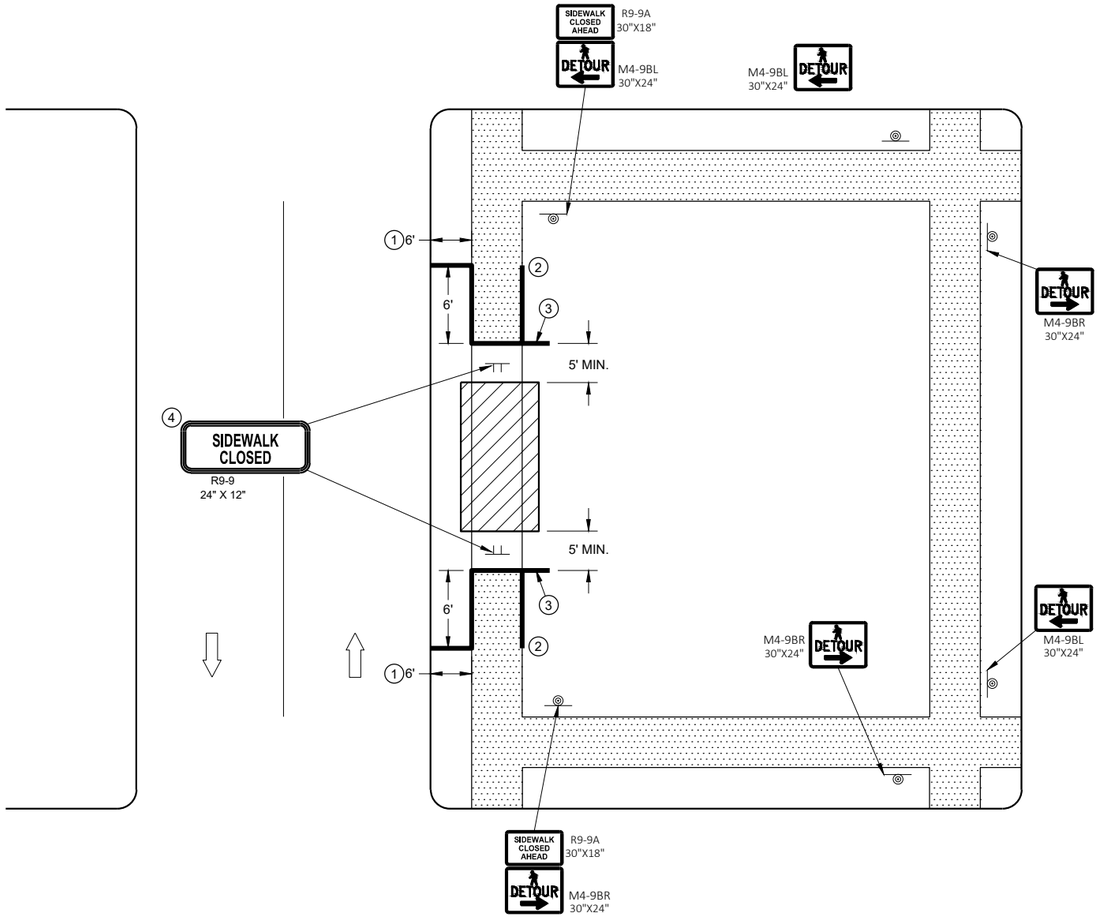
SDD 15D30 - 07d

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SDD 15D30 - 07d

LEGEND

- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC



SIDEWALK DETOUR, SIDEWALK ONLY ON ONE SIDE

GENERAL NOTES

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

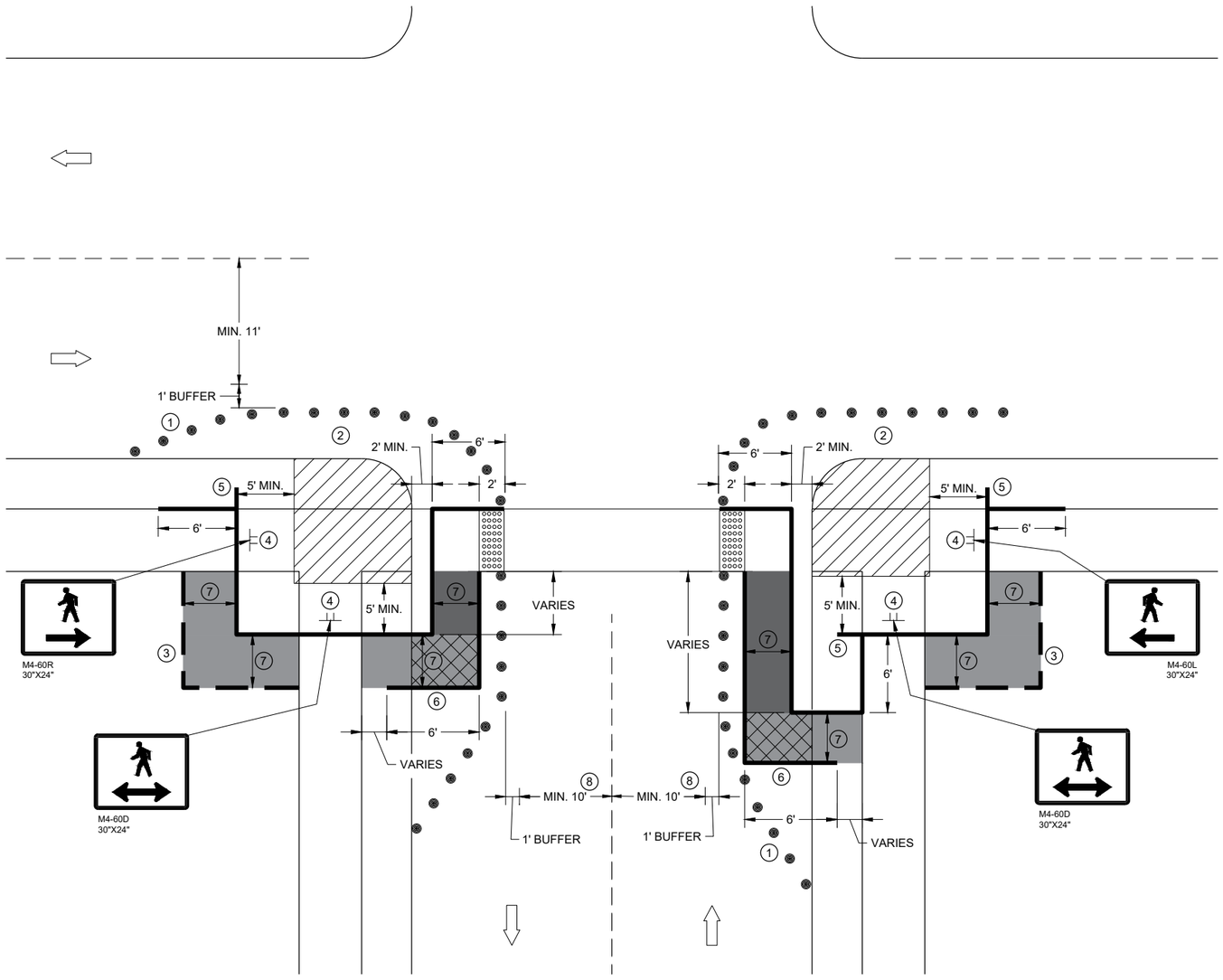
SIGNS THAT REMAIN IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

1. IF TERRACE IS LESS THAN 6 FEET WIDE, OMIT TEMPORARY PEDESTRIAN BARRICADE FROM THE SIDEWALK TO THE CURB.
2. PLACE BARRICADE CLOSURE SO THAT THE TEMPORARY PEDESTRIAN BARRICADE END IS AT THE LAST OPEN SIDEWALK ACCESS TO RESIDENCES OR BUSINESSES BEFORE THE SIDEWALK CLOSURE.
3. IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
4. MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

6

SDD 15D30 - 07f



CURB RAMP PEDESTRIAN TRAFFIC CONTROL
SIDEWALK ON SINGLE SIDE

GENERAL NOTES

IF PEDESTRIAN PUSH BUTTONS ARE PRESENT ON THE EXISTING FACILITY, ENSURE THEY ARE MAINTAINED/ACCESSIBLE FOR PEDESTRIAN USE THROUGHOUT THE TEMPORARY PEDESTRIAN ACCOMMODATIONS.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG

WHEN TEMPORARY PEDESTRIAN BARRICADE RUNS PARALLEL ALONG THE SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

(1) SHOULDER OR LANE CLOSURE ADVANCE WARNING AND PROPER BUFFER SPACE REQUIRED.

(2) PROVIDE ADEQUATE SPACE FOR CONTRACTOR OPERATIONS

(3) USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.

(4) MOUNTING HEIGHT OF 5 FEET FROM SIDEWALK SURFACE TO BOTTOM OF SIGN.

(5) PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL IN THE SIDEWALK TERRACE.

(6) IF TEMPORARY PEDESTRIAN BARRICADE DOES NOT REACH THE FACE OF THE CURB, USE AN ADDITIONAL PANEL AND EXTEND INTO THE TERRACE.

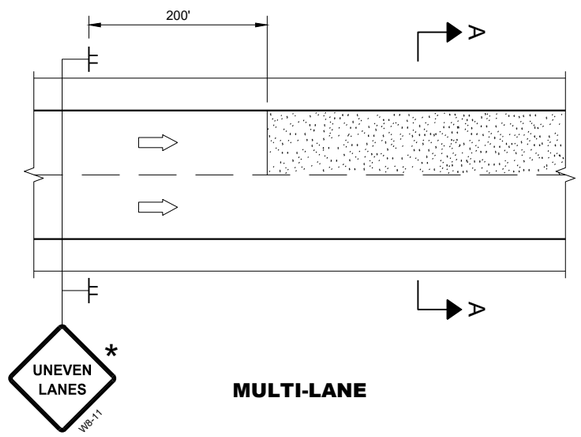
(7) 4 FEET MINIMUM, 5 FEET DESIRABLE

(8) IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, CURB RAMPS MAY NEED TO BE CONSTRUCTED AT SEPARATE TIMES.

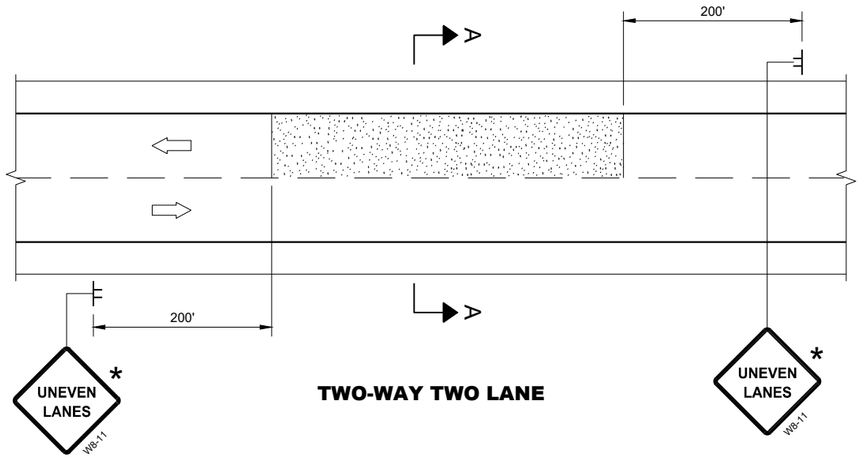
LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- WORK AREA
- TEMPORARY CURB RAMP
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- TEMPORARY DETECTABLE WARNING FIELD
- TEMPORARY PEDESTRIAN BARRICADE
- OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION



MULTI-LANE



TWO-WAY TWO LANE

GENERAL NOTES

FOR SPOT LOCATIONS USE ENGINEERING JUDGEMENT WHEN PLACING ADDITIONAL SIGNS.

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

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

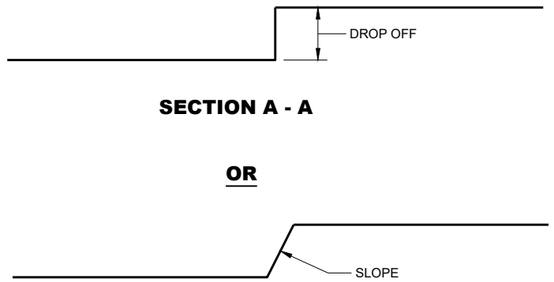
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

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

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

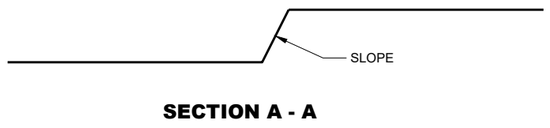
LEGEND

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

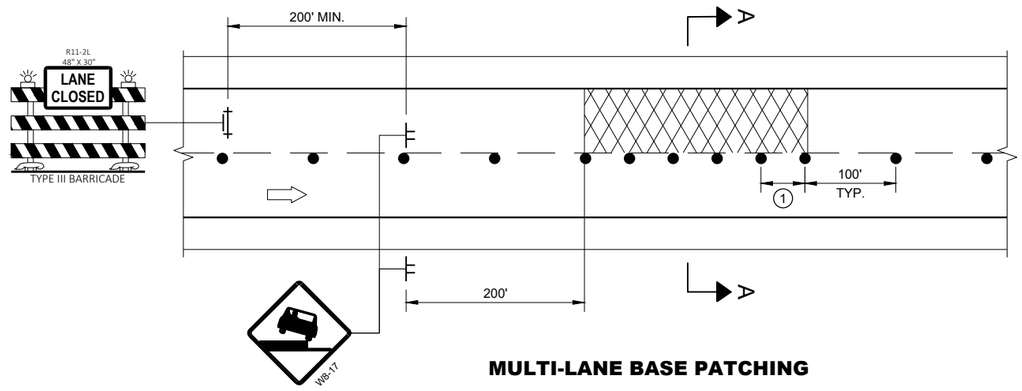


SECTION A - A

OR

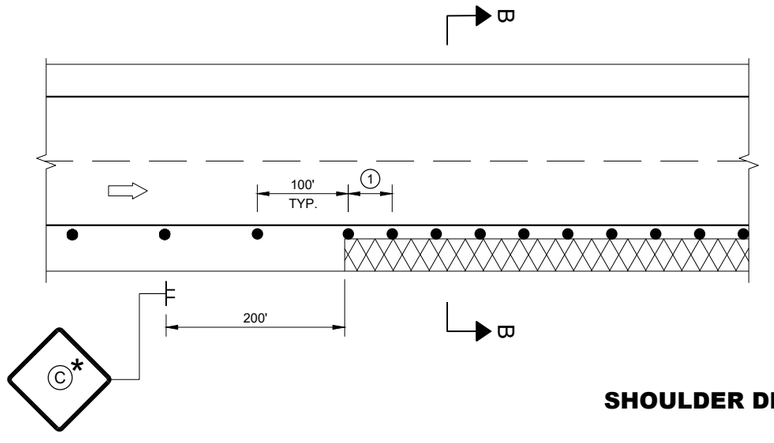


SECTION A - A

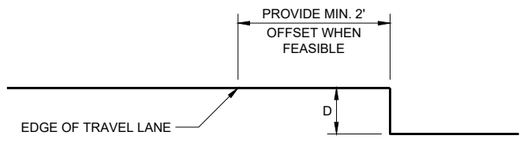


MULTI-LANE BASE PATCHING

ADJACENT LANE DROP-OFFS



SHOULDER DROP-OFFS



SECTION B - B

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

TRAFFIC CONTROL, DROP-OFF SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

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SDD 15D39 - 02

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

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 RIGHT - REVERSE FOR SHIFTING LEFT.

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.

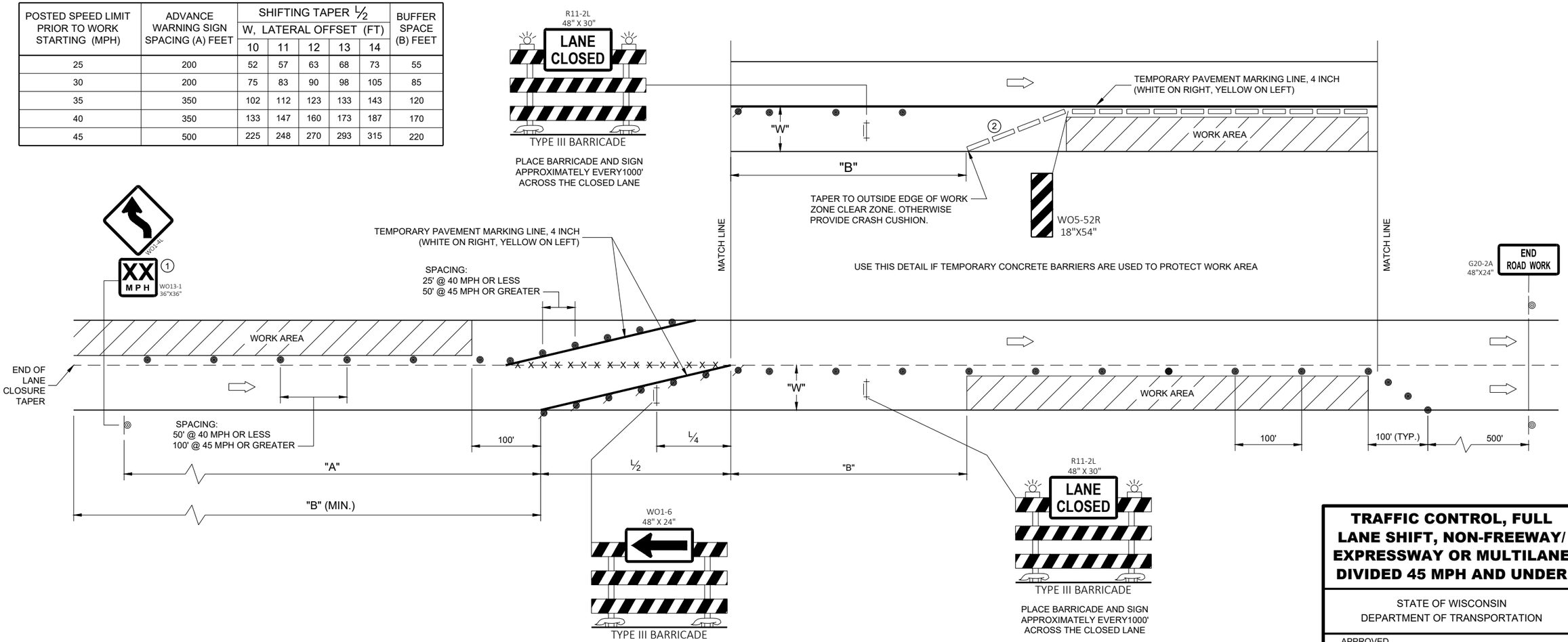
IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

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 IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED.

(2) BARRIER FLARE RATE: 6:1 @ 40 MPH OR LESS
8:1 @ 45 MPH OR GREATER

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHIFTING TAPER L/2 W, LATERAL OFFSET (FT)					BUFFER SPACE (B) FEET
		10	11	12	13	14	
25	200	52	57	63	68	73	55
30	200	75	83	90	98	105	85
35	350	102	112	123	133	143	120
40	350	133	147	160	173	187	170
45	500	225	248	270	293	315	220



TRAFFIC CONTROL, FULL LANE SHIFT, NON-FREEWAY/ EXPRESSWAY OR MULTILANE DIVIDED 45 MPH AND UNDER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

SDD 15D40 - 04a

SDD 15D40 - 04a

GENERAL NOTES

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

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

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

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

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

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

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

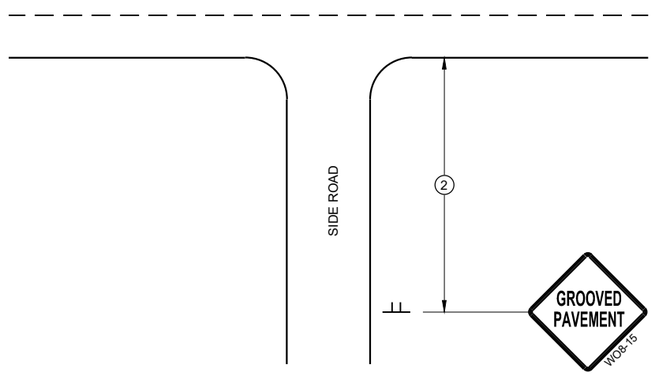
(1) PLACE SIGNS 350' IN ADVANCE OF MILLED SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.

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

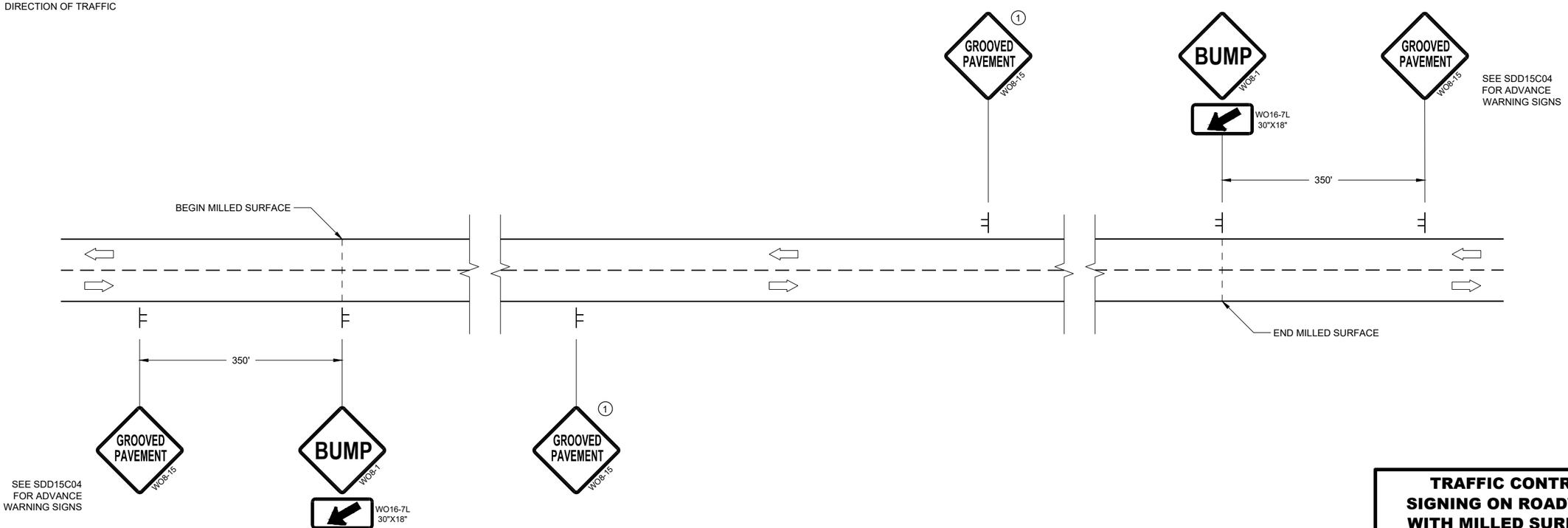
LEGEND

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC



TYPICAL SIDE ROAD APPROACH SIGN DETAIL



DETAIL FOR SIGNING ON MILLED SURFACES

TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6
SDD 15D44 - 02

GENERAL NOTES

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

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

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

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

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

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

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

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

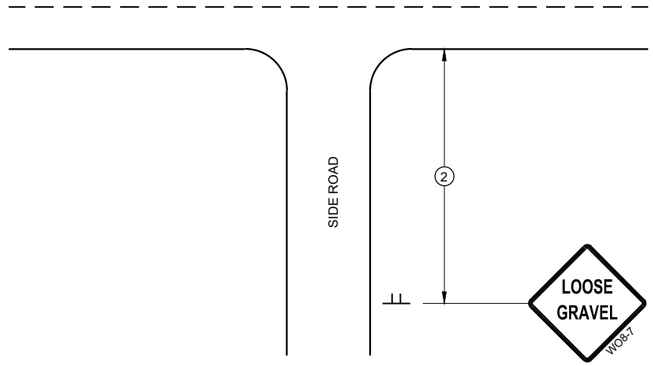
(2) PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

(3) ADD WO8-1 OR WO8-2 SIGN WHEN THE CONDITION IS PRESENT.

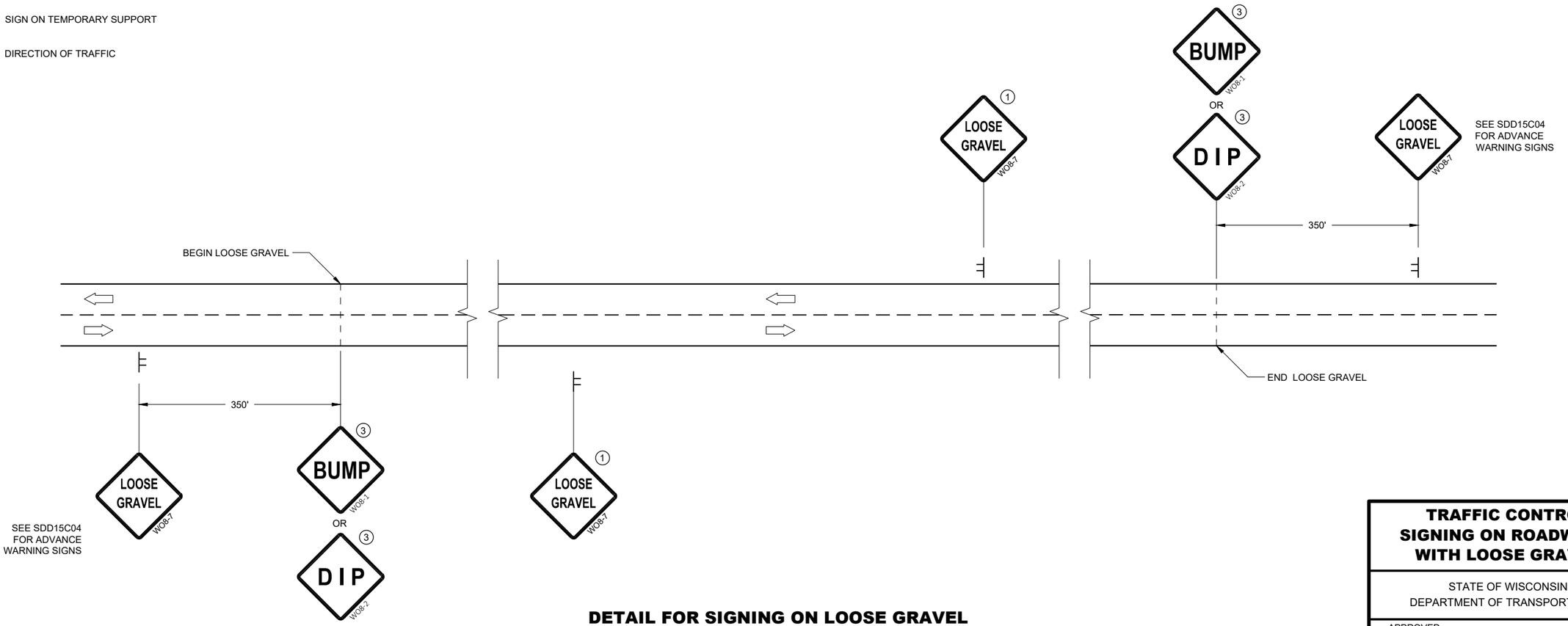
LEGEND

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC



TYPICAL SIDE ROAD APPROACH SIGN DETAIL



DETAIL FOR SIGNING ON LOOSE GRAVEL OR CHIP SEALED SURFACES

TRAFFIC CONTROL SIGNING ON ROADWAYS WITH LOOSE GRAVEL

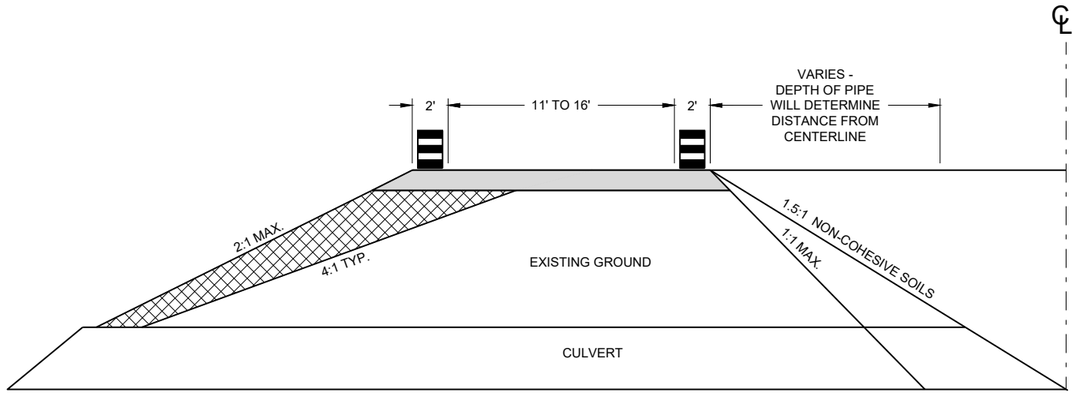
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15D45 - 03



CROSS SECTION

GENERAL NOTES

USE 1:1 FOR COHESIVE CLAYS AND SILTS, LOAMS, SANDY CLAYS AND ANGULAR GRAVEL SOILS.
USE 1.5:1 FOR NON-COHESIVE SOILS.

THE TAPER SHOULD EXTEND ACROSS THE SHOULDER UNLESS DOING SO WOULD GREATLY CONFLICT WITH THE WORK OPERATION.

ALL LANE CLOSURE SIGNS SHALL BE REMOVED OR COVERED AND ALL DEVICES REMOVED BEYOND THE SHOULDER WHEN WORK IS NOT IN PROGRESS AND THE LANE IS RESTORED TO A SAFE OPERATING CONDITION.

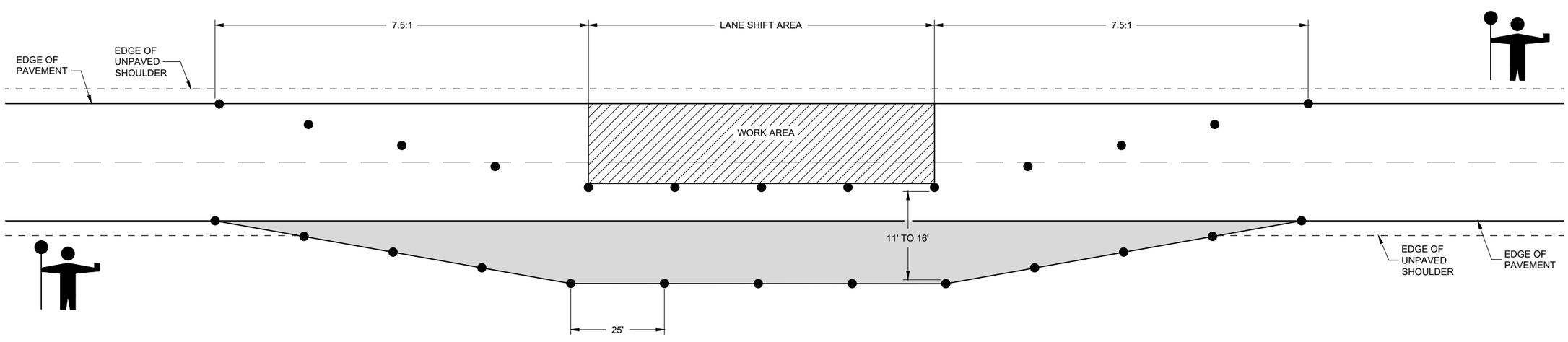
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

USE WITH SDD 15C12 "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATIONS"

USE WITH SDD 15D45 "SIGNING ON ROADWAYS WITH LOOSE GRAVEL"

LEGEND

- DRUM WITHOUT WARNING LIGHT
- 6" BASE AGGREGATE DENSE 1 ¼" -INCIDENTAL TO LANE SHIFT ITEM
- FILL - INCIDENTAL TO LANE SHIFT ITEM
- WORK AREA
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF



LANE SHIFT IN FLAGGING OPERATION

TRAFFIC CONTROL, TEMPORARY LANE SHIFT DURING CULVERT WORK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

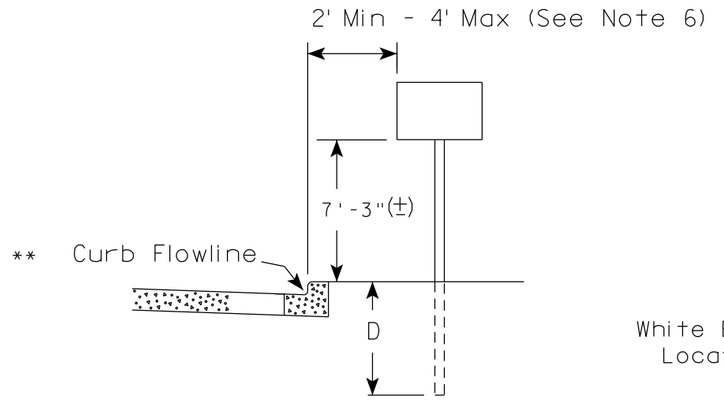
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SDD 15D48 - 01

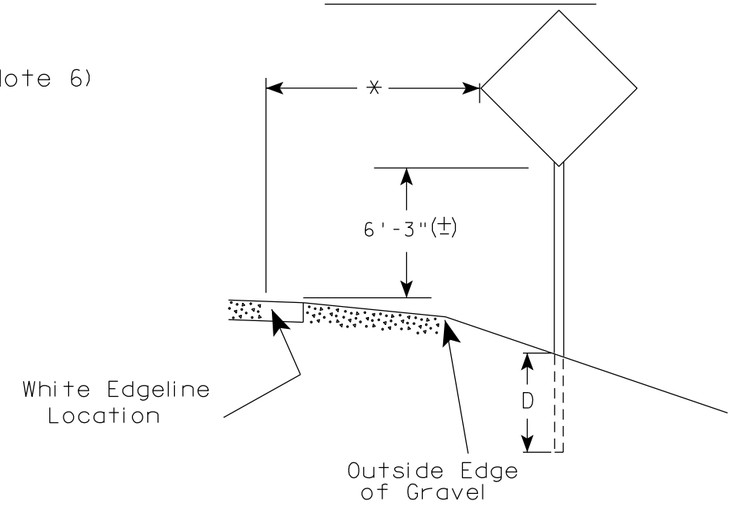
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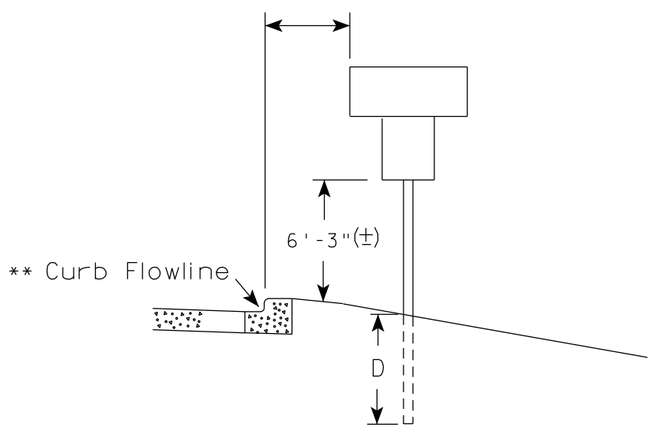
SDD 15D48 - 01

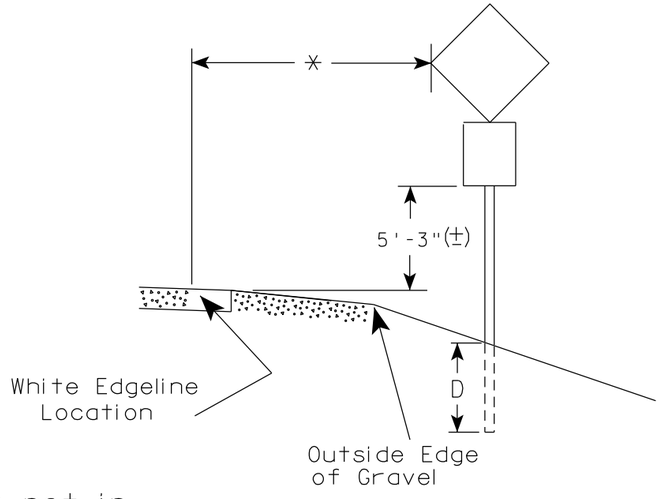
URBAN AREA



RURAL AREA (See Note 2)







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

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

POST EMBEDMENT DEPTH

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

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.
   The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±). 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.

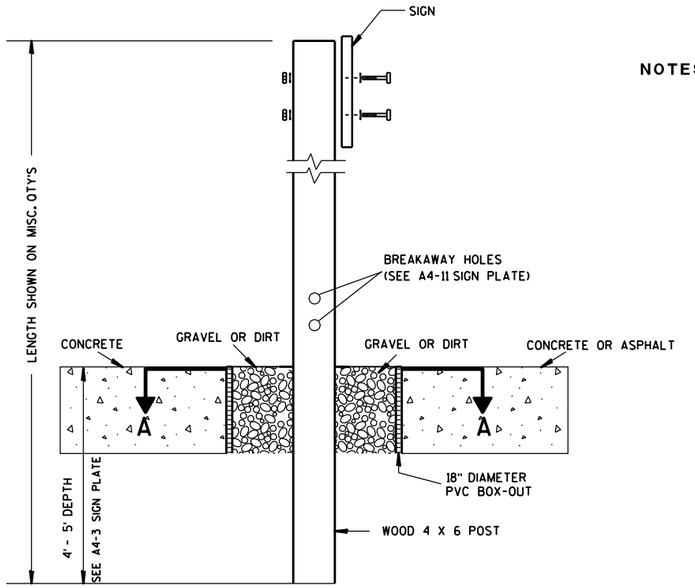
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

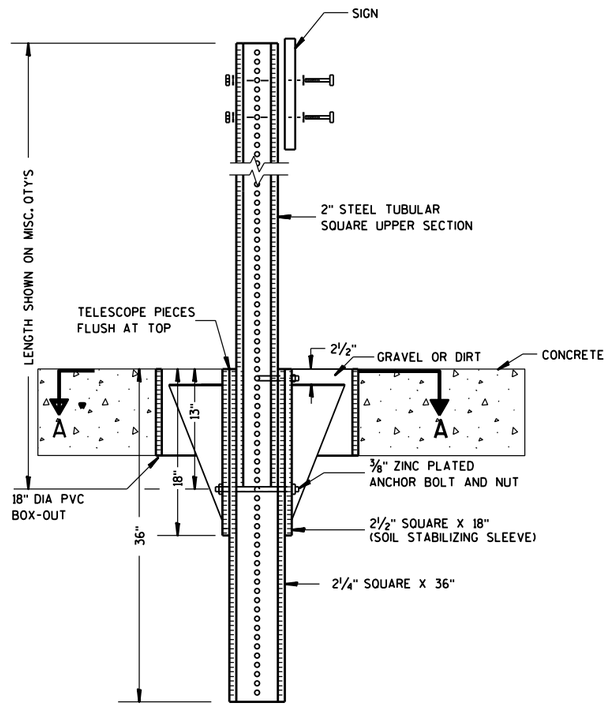
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 211	E



ELEVATION VIEW

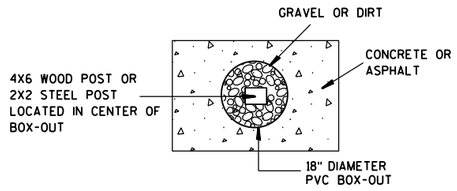
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

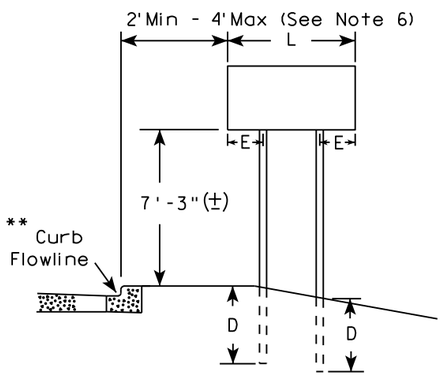
APPROVED Matthew R Rauch
for State Traffic Engineer

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

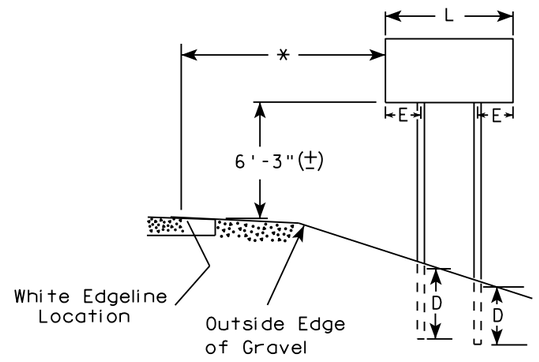
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

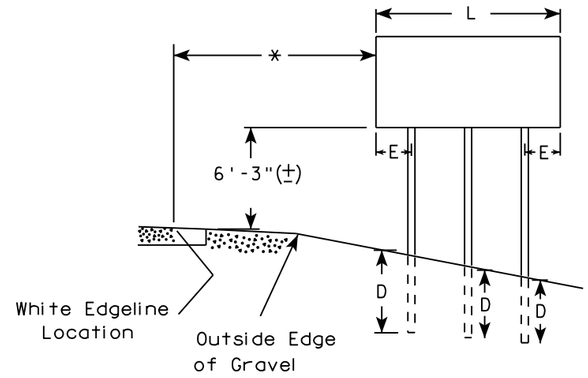
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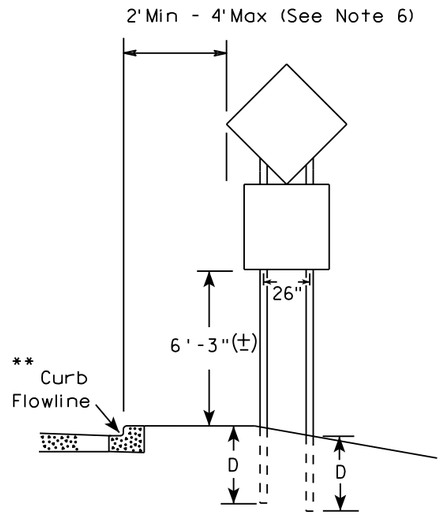
URBAN AREA



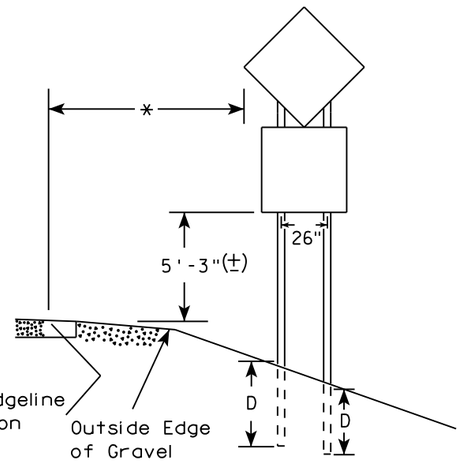
RURAL AREA (See Note 3)







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'

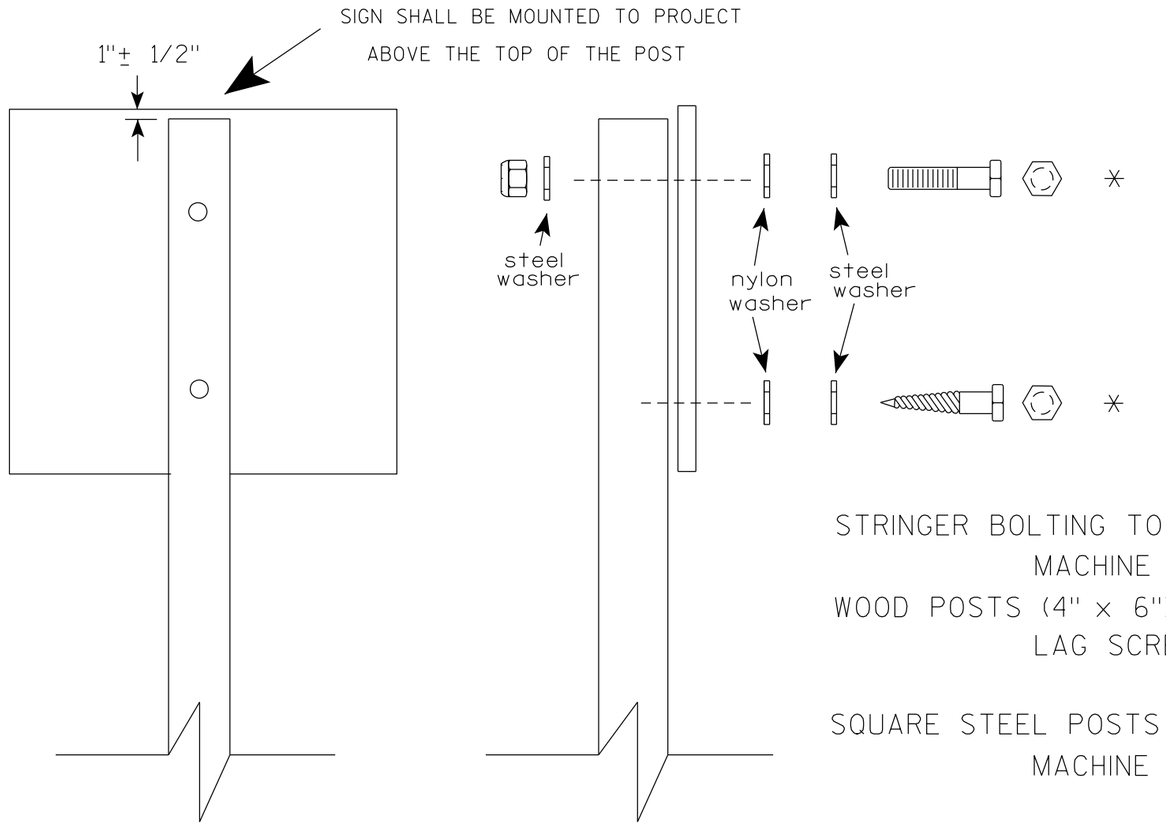
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

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: 213	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

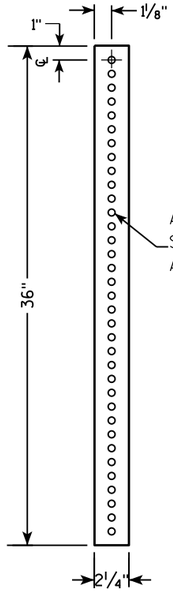
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

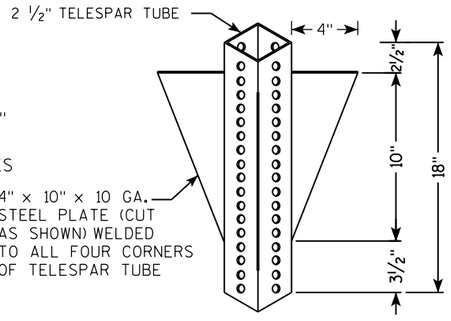
DATE 4/1/2020 PLATE NO. A4-8.9

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

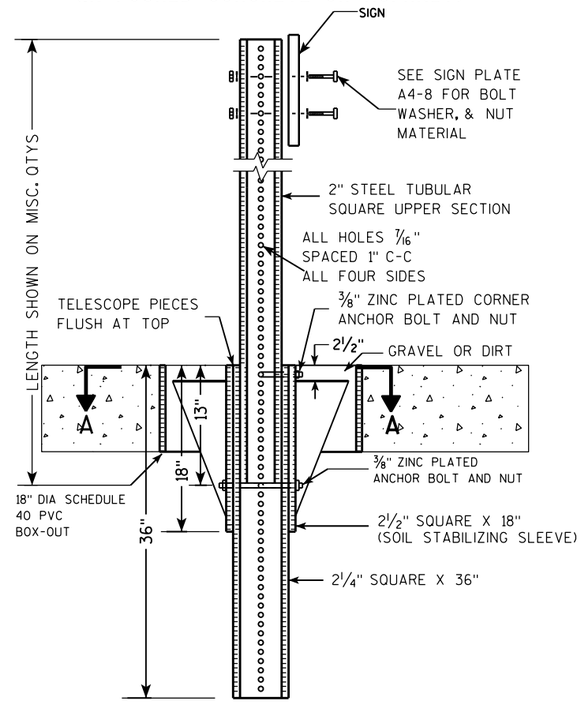
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



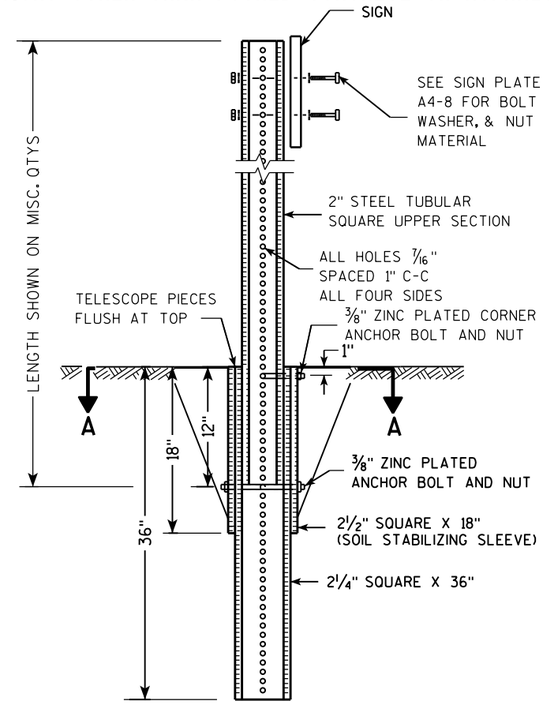
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

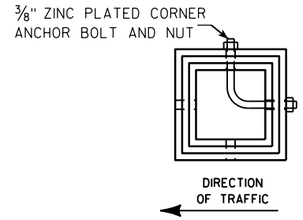


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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).

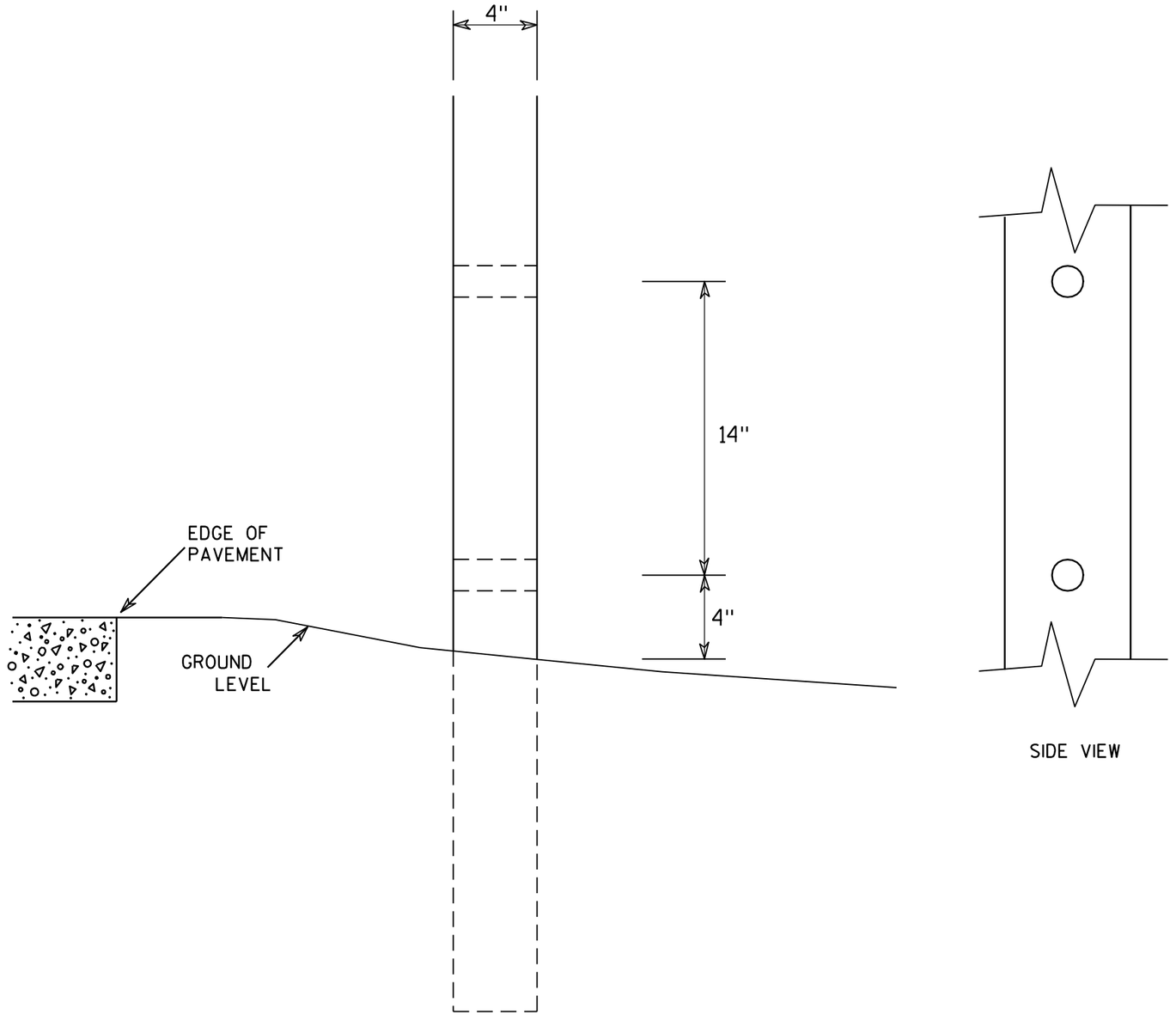
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 215 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

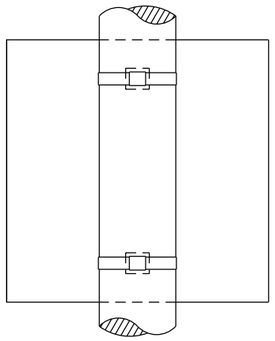
APPROVED Chester J Spang for State Traffic Engineer

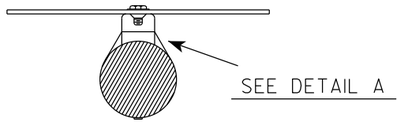
DATE 3/27/97 PLATE NO. A4-11.2

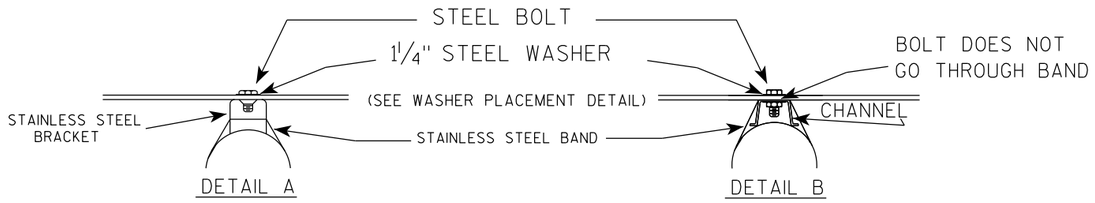
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 216	E

BANDING

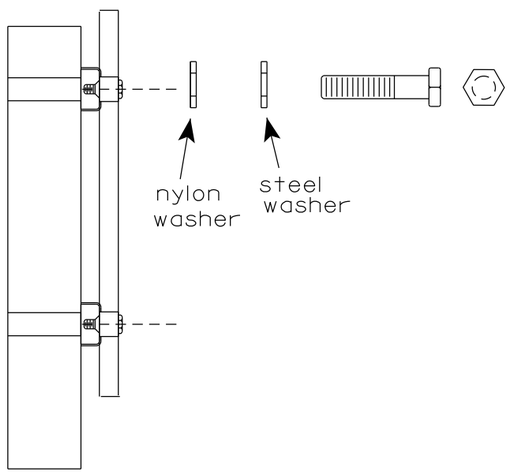
SINGLE SIGN







WASHER PLACEMENT

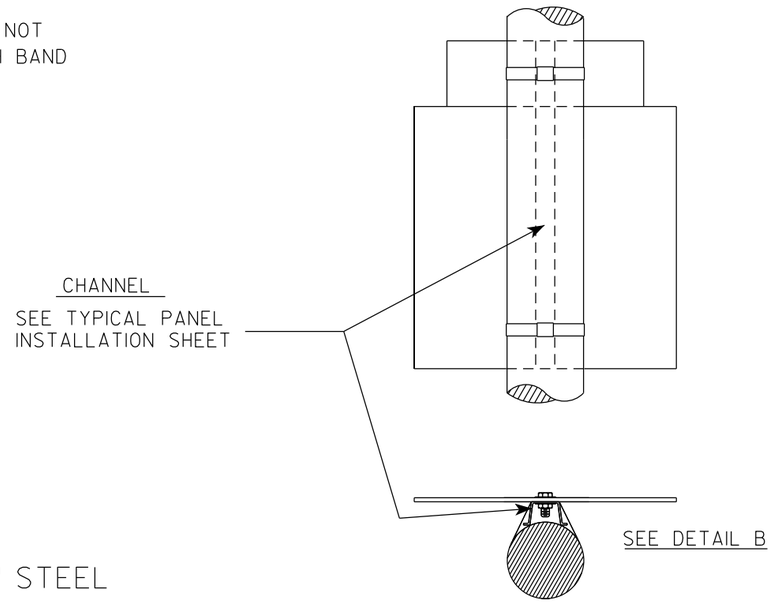


WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

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

"J" ASSEMBLY



STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

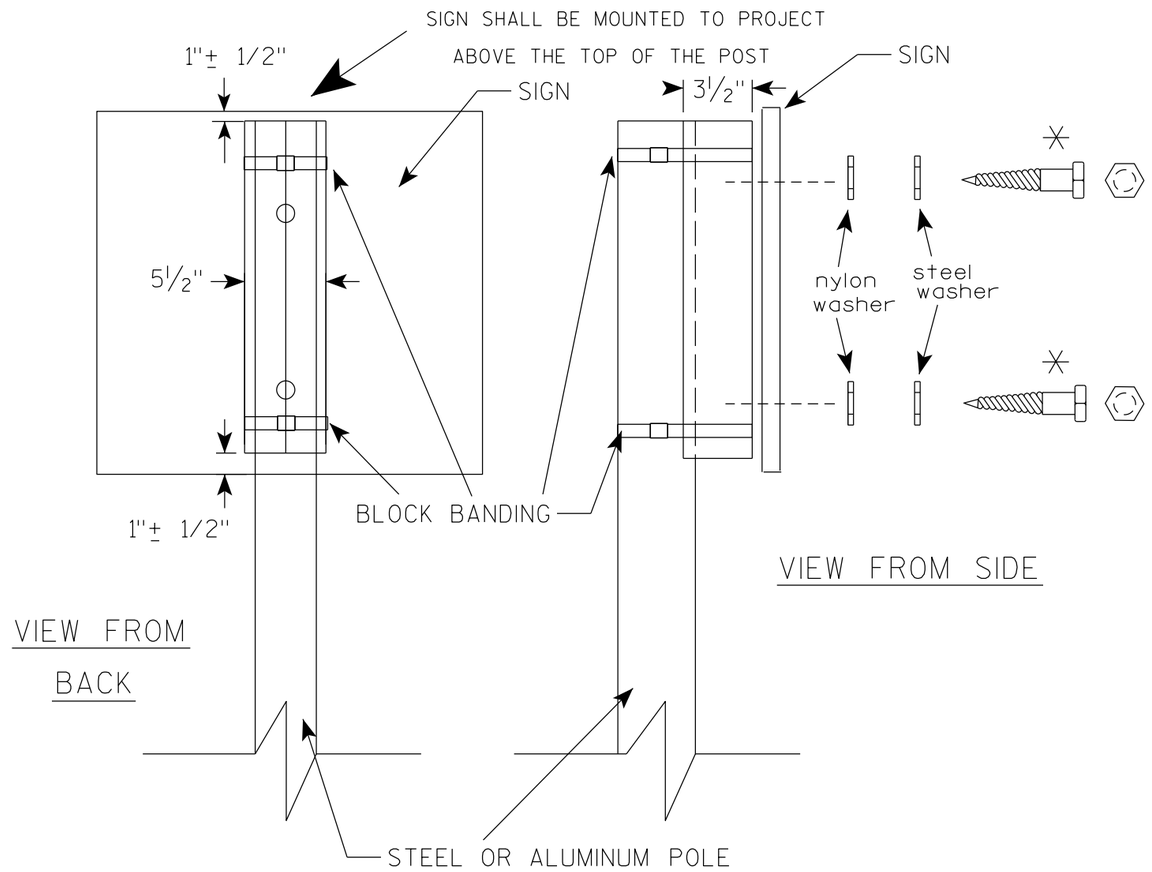
DATE 6/10/19 PLATE NO. A5-9.4

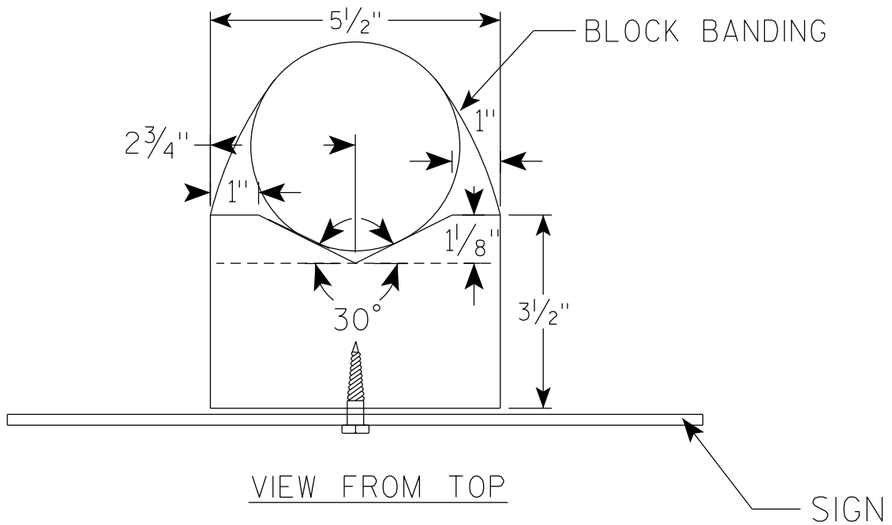
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 217	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7

7





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

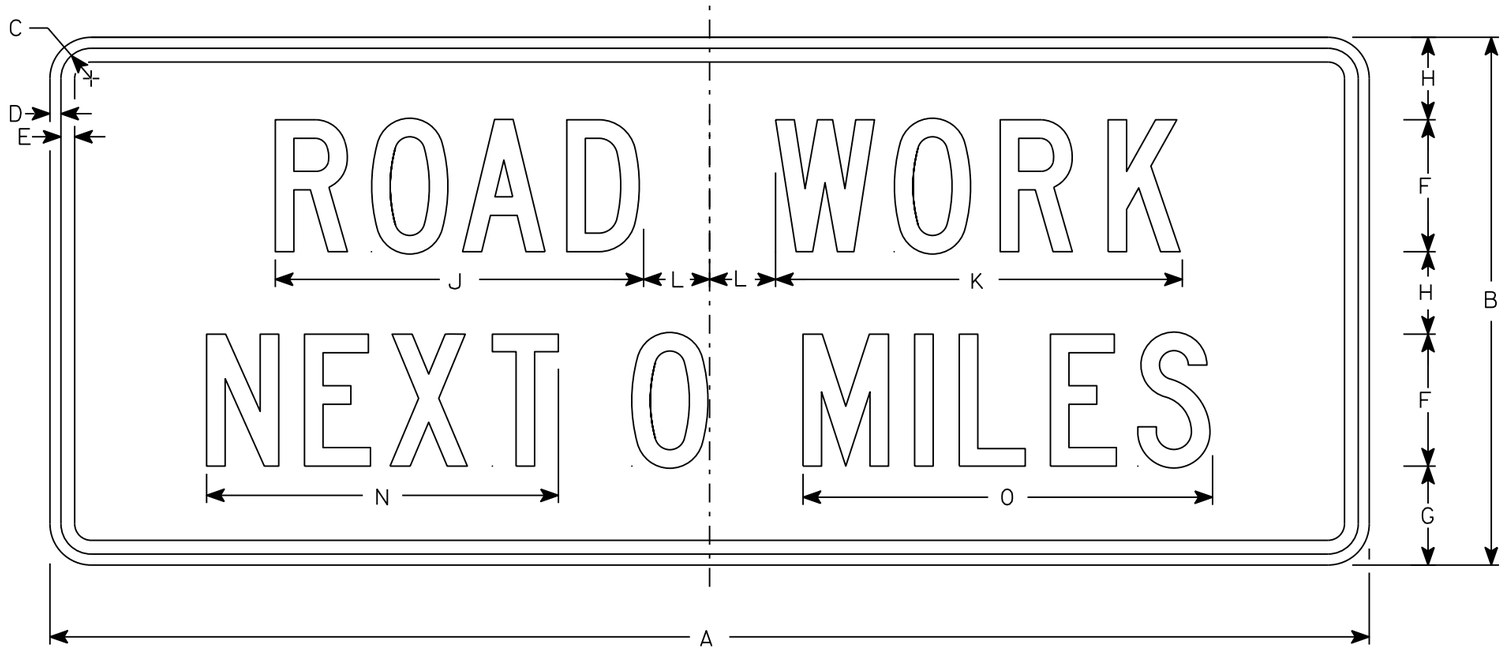
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:

SHEET NO: 218 E



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																											

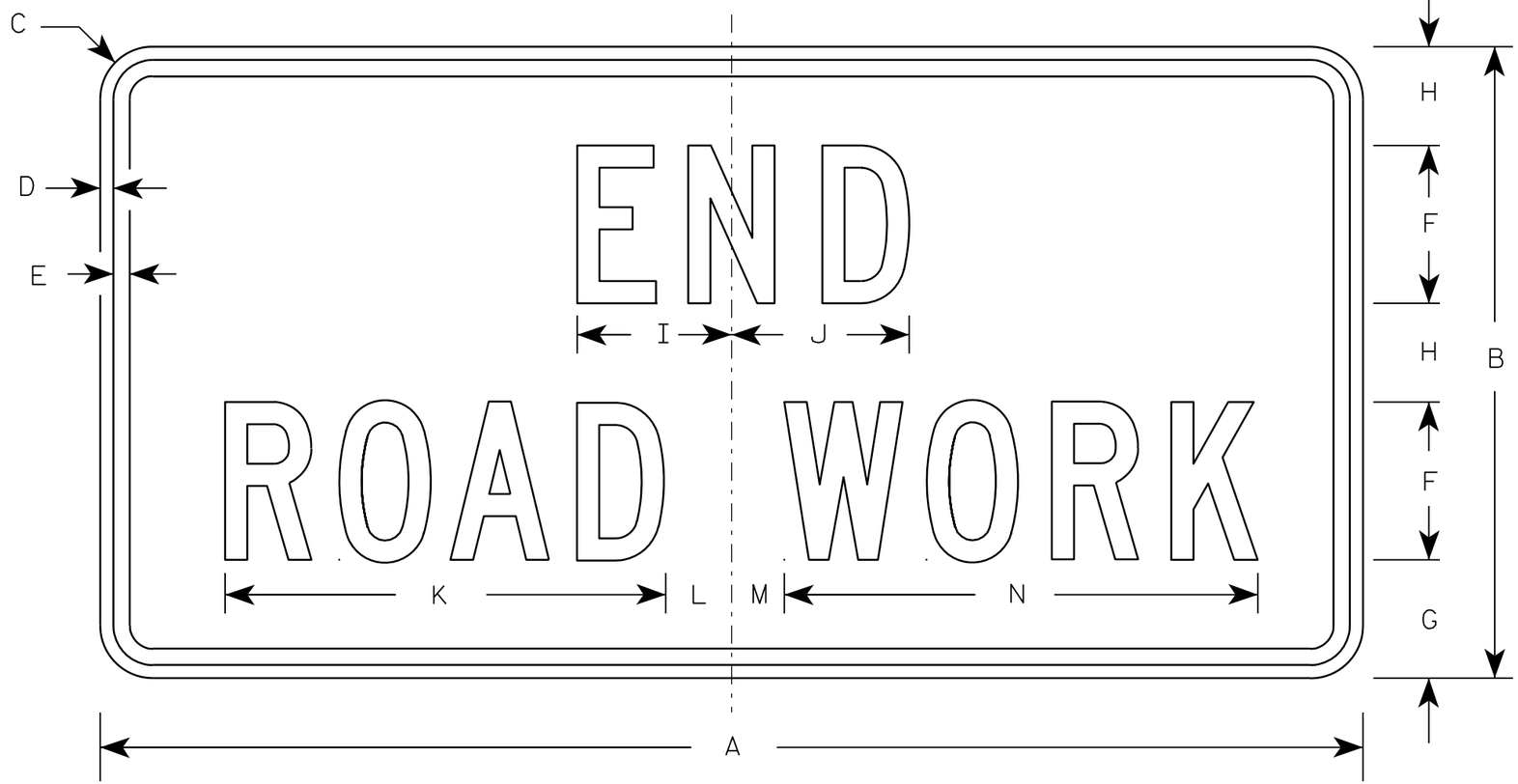
STANDARD SIGN
G20-1

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: 219	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

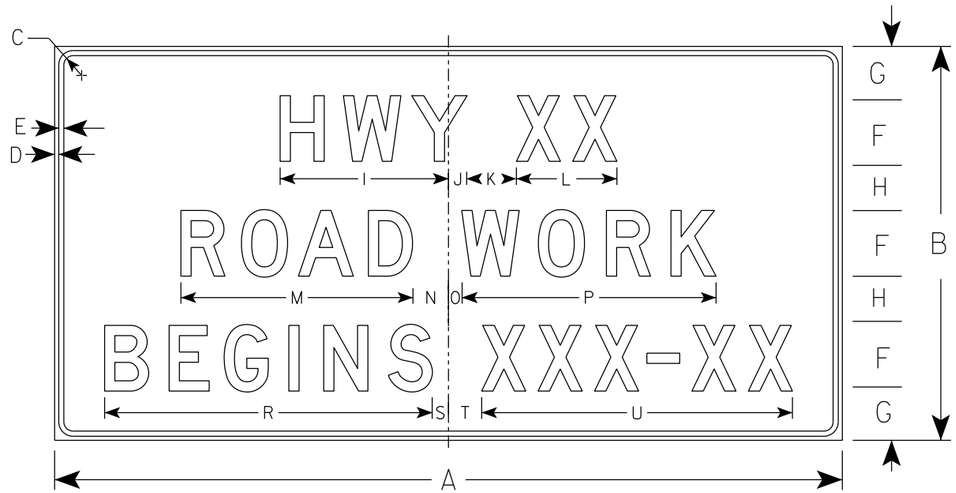
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 220	E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Substitute appropriate numeral and adjust spacing to achieve proper balance.



G20-57

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	72	36	1 1/8	1/2	5/8	6	5	4	15 5/8	1 5/8	5	9 1/4	21 1/4	3 1/2	1 1/2	23 1/4		29 7/8	1 3/4	3 1/4	28 1/2						18.0
4	96	48	2 1/4	3/4	1	8	6 1/2	5 1/2	20 5/8	2 1/4	6	12 1/4	28 1/4	4 3/8	1 5/8	31		39 1/4	2	4	37 7/8						32.0
5																											

STANDARD SIGN
G20-57

WISCONSIN DEPT OF TRANSPORTATION

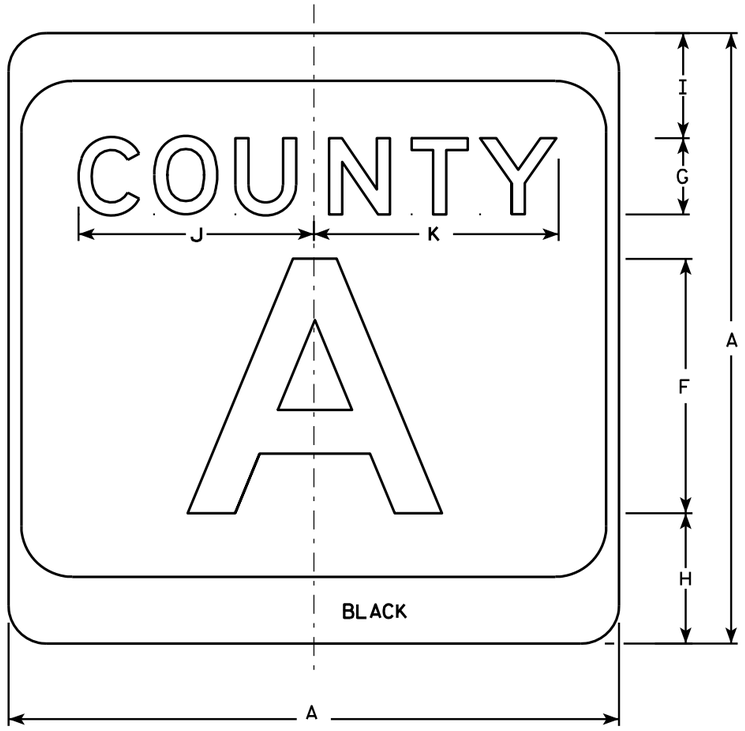
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 1/22/19 PLATE NO. G20-57.3

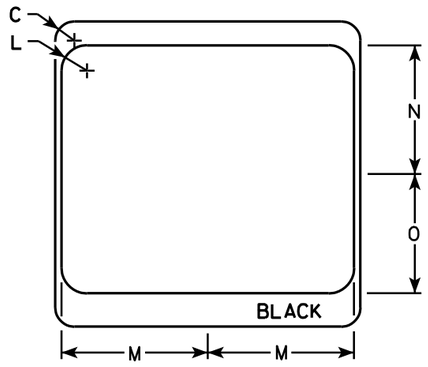
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 221 | E

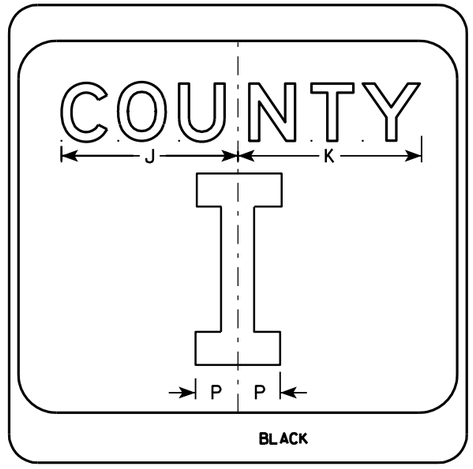
7

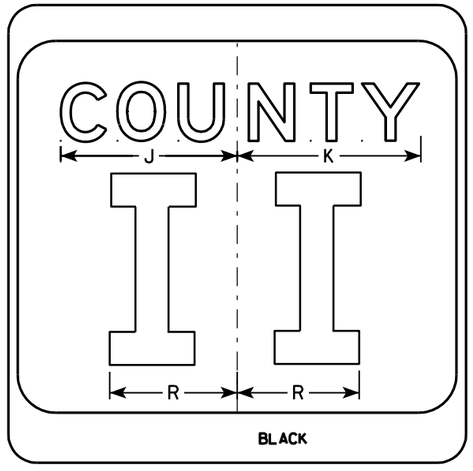
7



M1-5A







NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 7
   Message - Black
3. Message Series - see Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
6. Substitute appropriate letters & optically center to achieve proper balance.
7. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

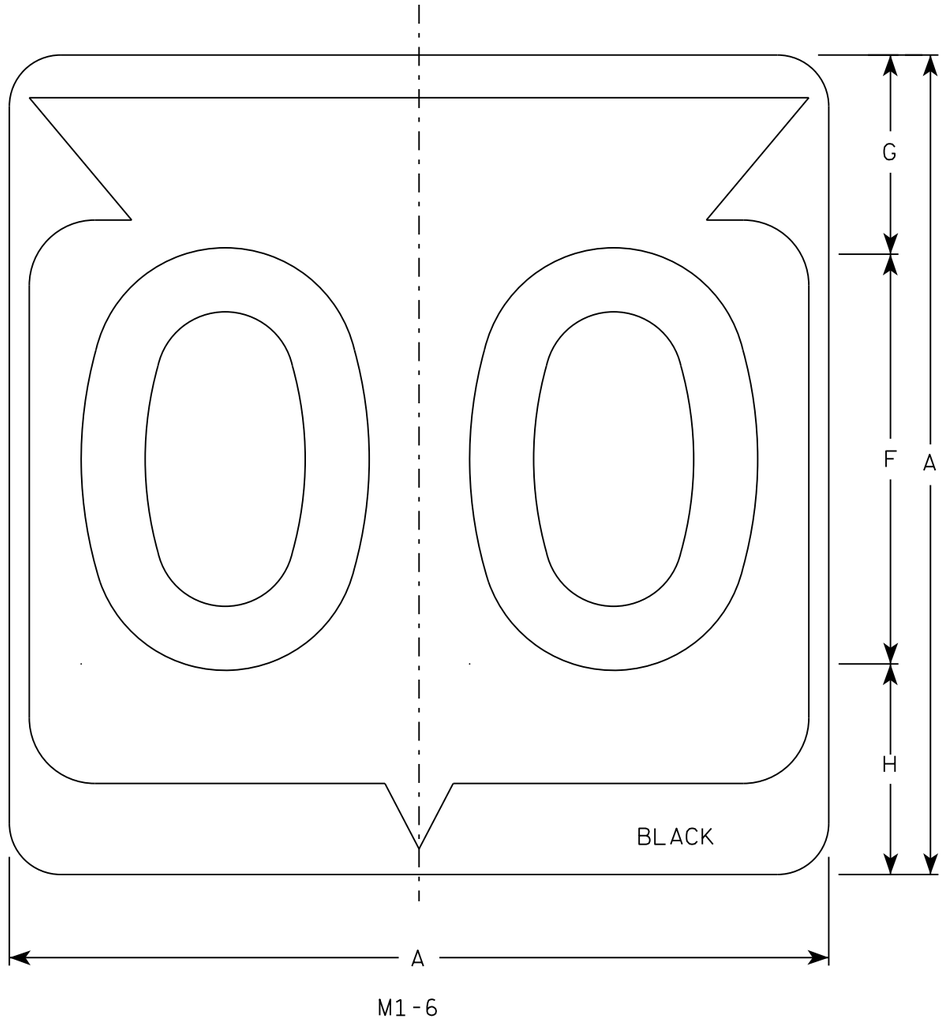
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

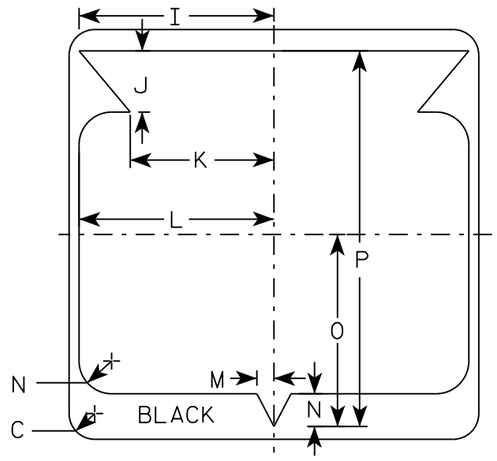
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 222 | E



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

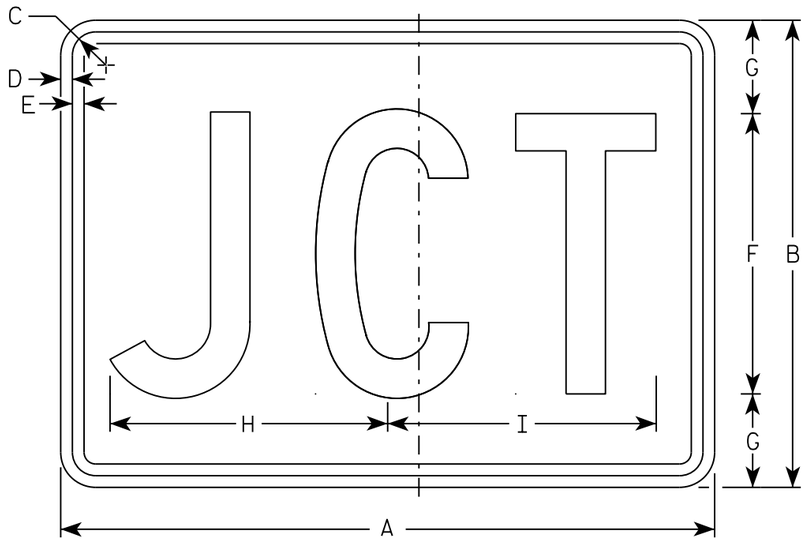
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

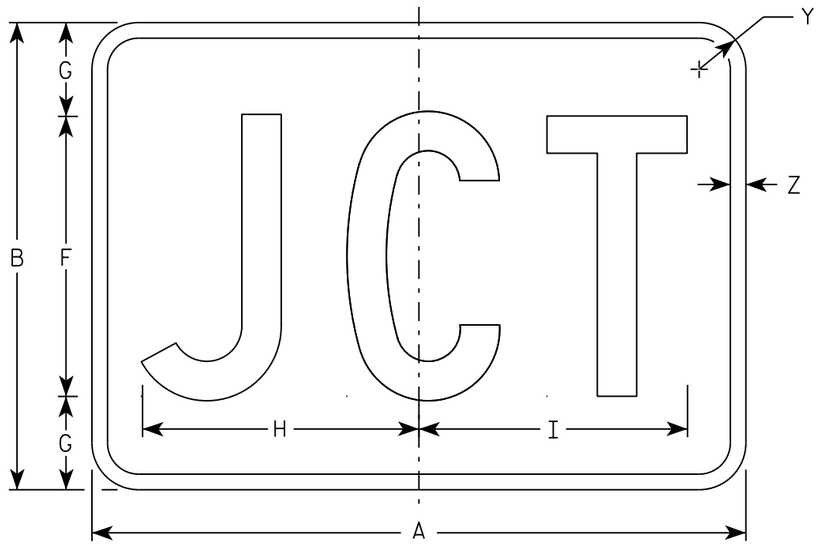
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/16/18 PLATE NO. M1-6.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 223	E



M2-1
MM2-1
MP2-1



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

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M2-1 Background - White
   Message - Black
   MB2-1 Background - Blue
   Message - White
   MK2-1 Background - Green
   Message - White
   MM2-1 Background - White
   Message - Green
   MN2-1 Background - Brown
   Message - White
   MP2-1 Background - White
   Message - Blue
   MR2-1 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40

STANDARD SIGN
M2-1

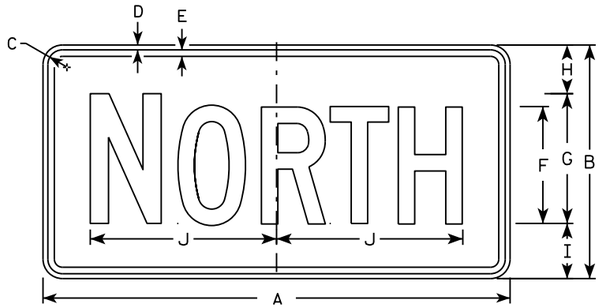
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

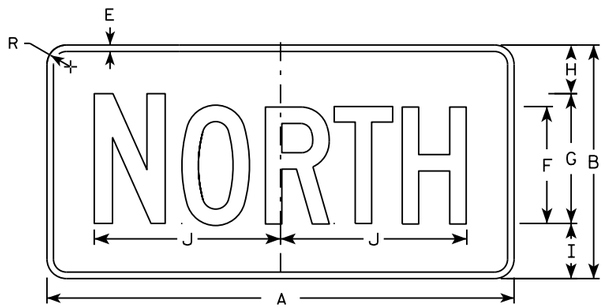
DATE 10/15/15 PLATE 224 12-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M21.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.864603:1.000000



M3-1
MM3-1
MP3-1



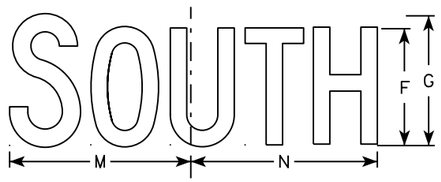
MB3-1
MK3-1
MN3-1



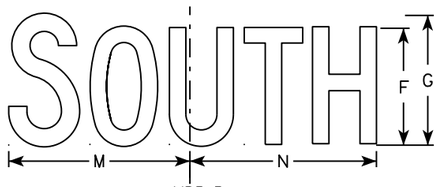
M3-2
MM3-2
MP3-2



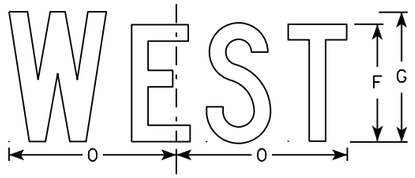
MB3-2
MK3-2
MN3-2



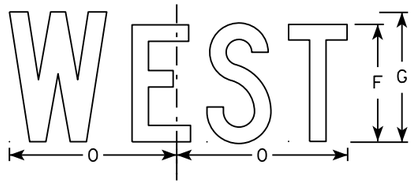
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

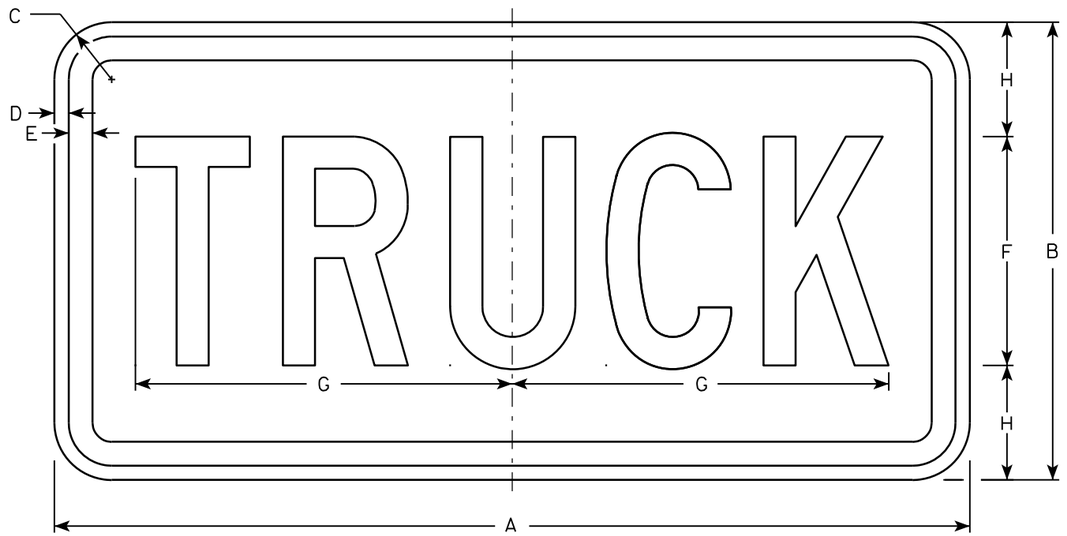
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

DATE 10/15/15 PLATE NO M3-1.14

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



M4-4

NOTES

1. Sign is Type II - See Note 5 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White - See Note 5
   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. Permanent Signs
   Background - Type H Reflective
   Temporary or other temporary Signs
   Background - Reflective

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/2	3/8	3/8	6	9 7/8	3																			2.0
3	36	18	1 1/2	3/8	1/2	9	15 5/8	4 1/2																			4.5
4																											
5																											

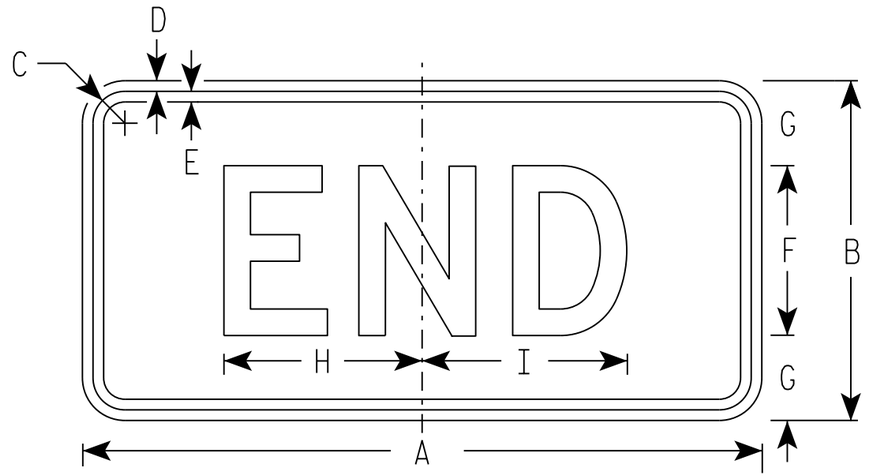
STANDARD SIGN
M4-4

WISCONSIN DEPT OF TRANSPORTATION

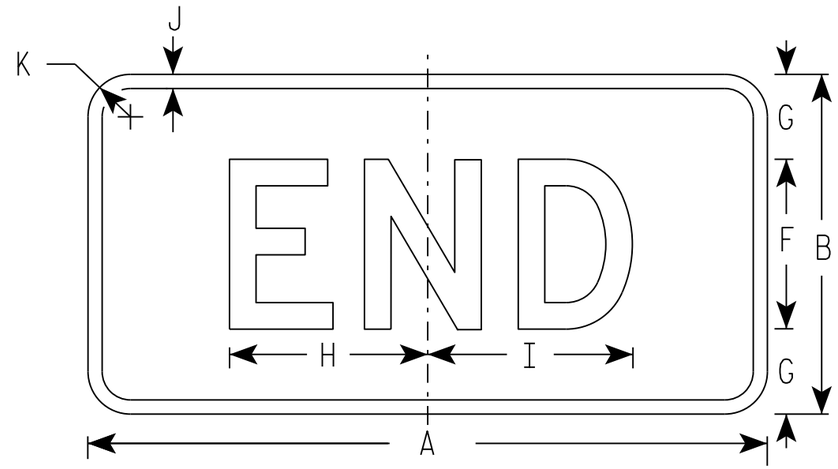
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-4.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 226 | E



M4-6
MM4-6
MP4-6



MB4-6
MK4-6
MN4-6
MR4-6

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-6 Background - White
   Message - Black

   MB4-6 Background - Blue
   Message - White

   MK4-6 Background - Green
   Message - White

   MM4-6 Background - White
   Message - Green

   MN4-6 Background - Brown
   Message - White

   MP4-6 Background - White
   Message - Blue

   MR4-6 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	7	7 1/4	1/2	1 1/2																2.00
3	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 7/8	1/2	1 1/2																4.5
4	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 7/8	1/2	1 1/2																4.5
5	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 7/8	1/2	1 1/2																4.5

STANDARD SIGN
M4-6

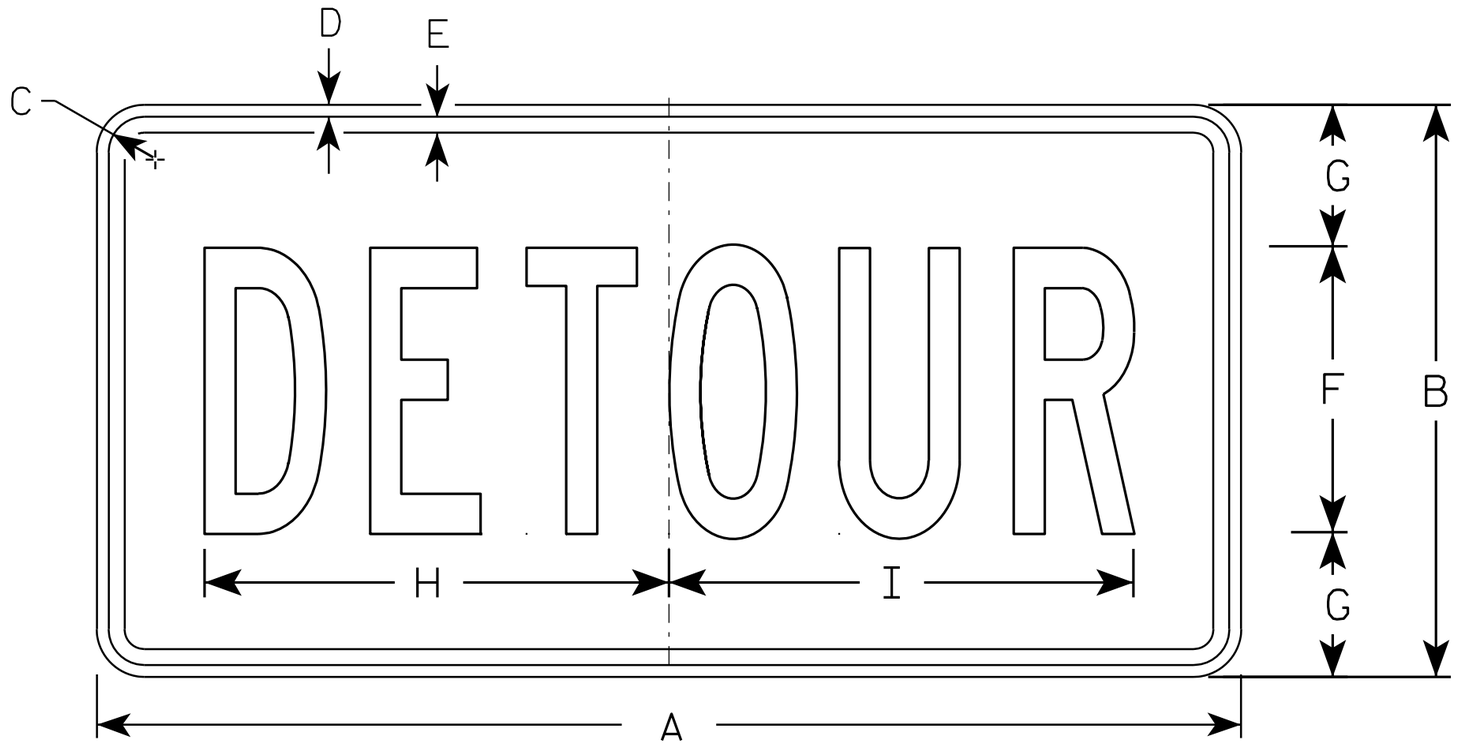
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 227 '14-7.9

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M46.DGN PLOT DATE : 01-DEC-2015 17:55 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 5.351066:1.000000



M4-8

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/8	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4																											
5																											

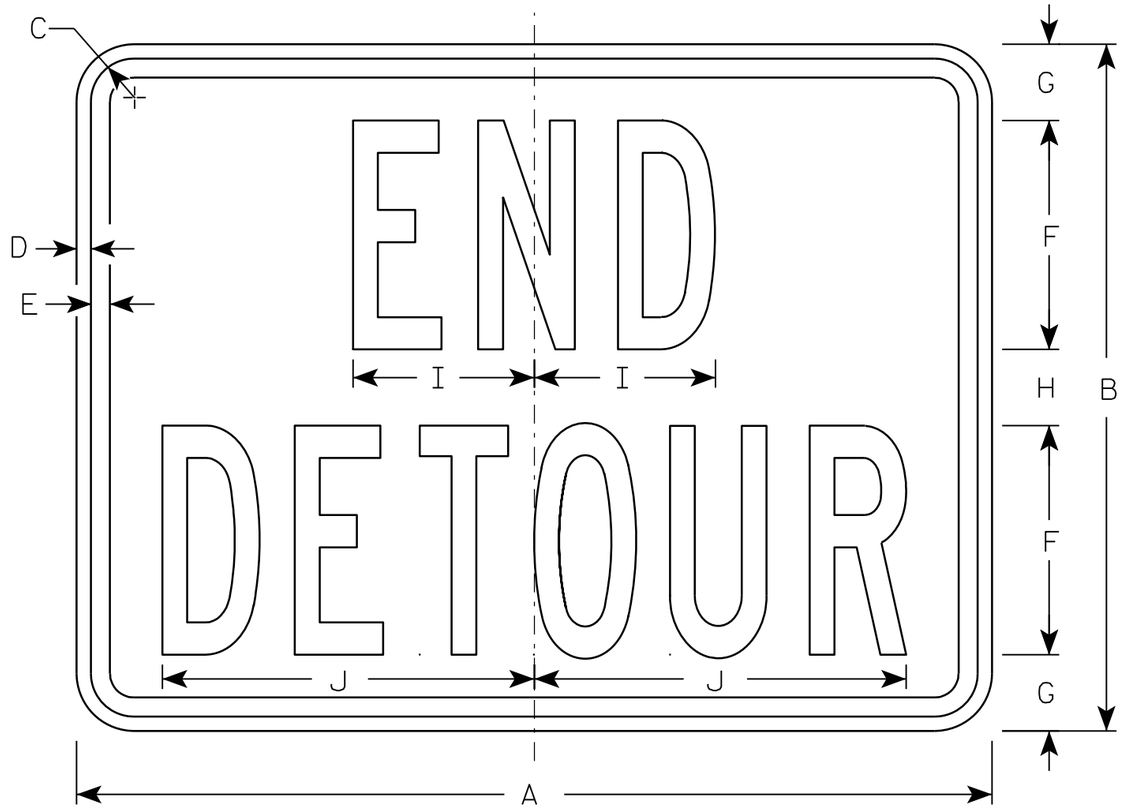
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 228	E



M4-8A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	18	1 1/8	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4																											
5																											

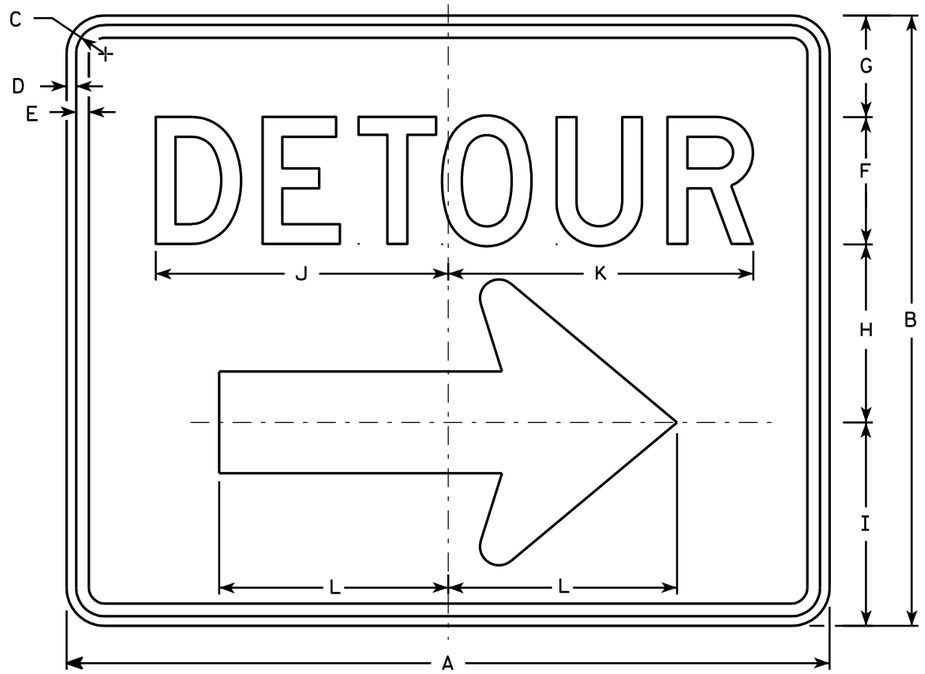
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

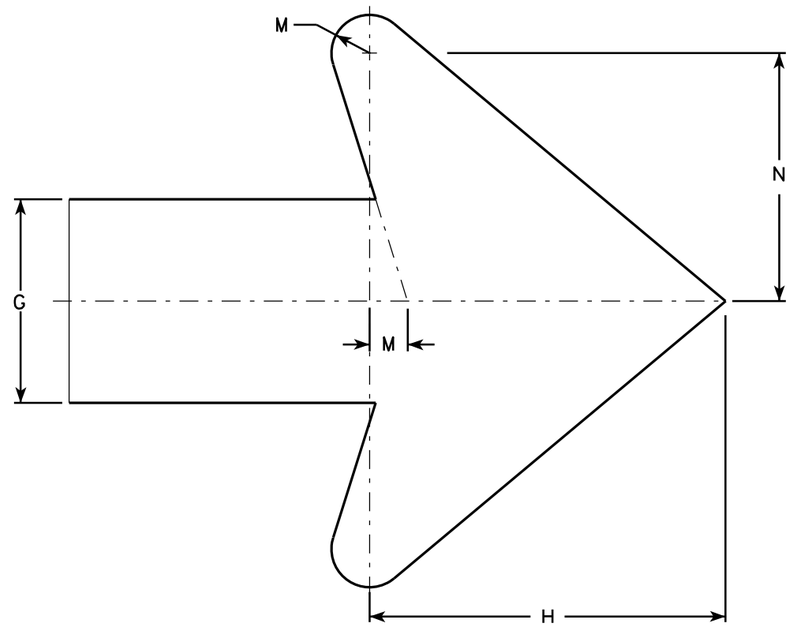
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 229	E



M4-9R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-9L is the same as M4-9R except the arrow is reversed.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	24	1 1/8	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
3	30	24	1 1/8	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
4	48	36	1 3/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0
5	48	36	1 3/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0

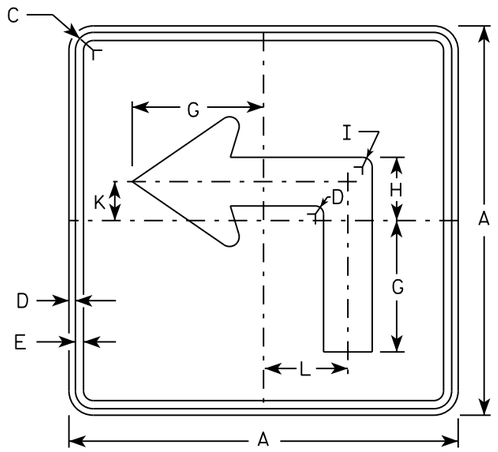
STANDARD SIGN
M4-9 R & L

WISCONSIN DEPT OF TRANSPORTATION

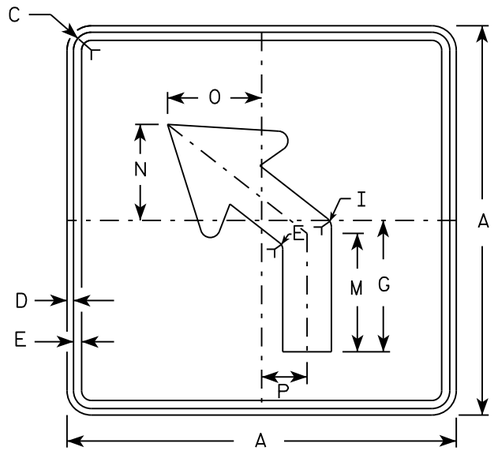
APPROVED Matthew R Rauch
for State Traffic Engineer

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

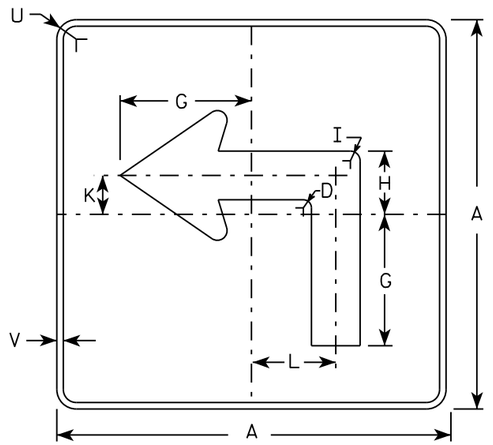
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 230 | E



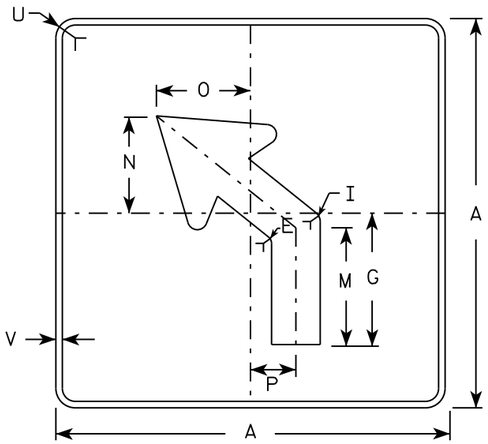
M5-1L
MM5-1L
MO5-1L
MP5-1L



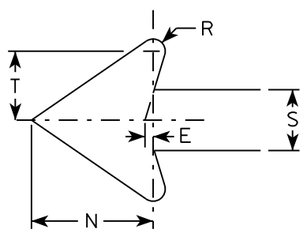
M5-2L
MM5-2L
MO5-2L
MP5-2L



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



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



NOTES

1. Signs are Type II - Type H reflective except as shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White - Type H Reflective
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

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

STANDARD SIGN
M5-1 & M5-2

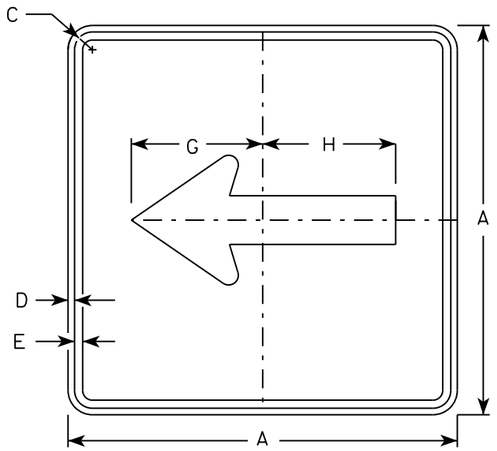
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

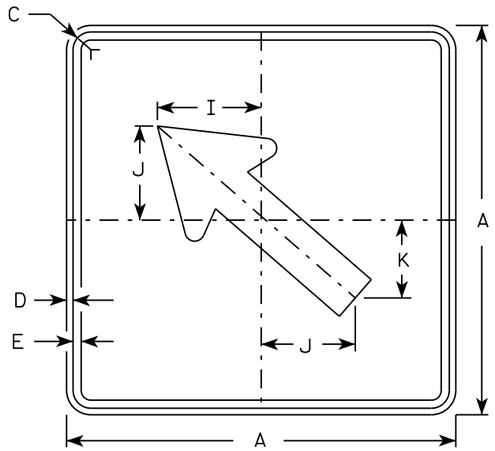
DATE 10/15/15 PLATE NO. M5-1.13

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M51.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



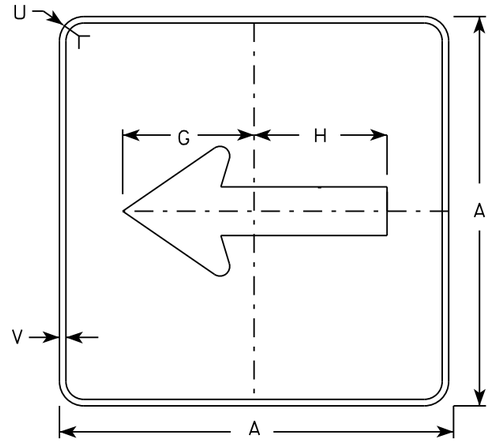
M6-1
MM6-1
MO6-1
MP6-1



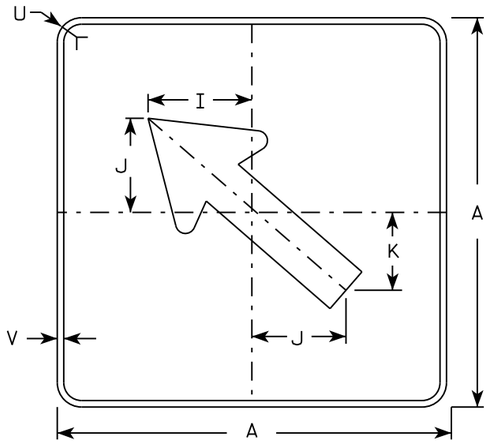
M6-2
MM6-2
MO6-2
MP6-2

NOTES

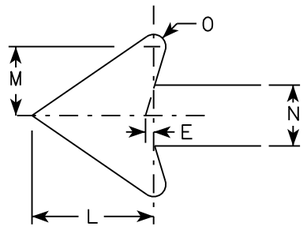
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



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



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



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

STANDARD SIGN
M6-1 & M6-2
SERIES

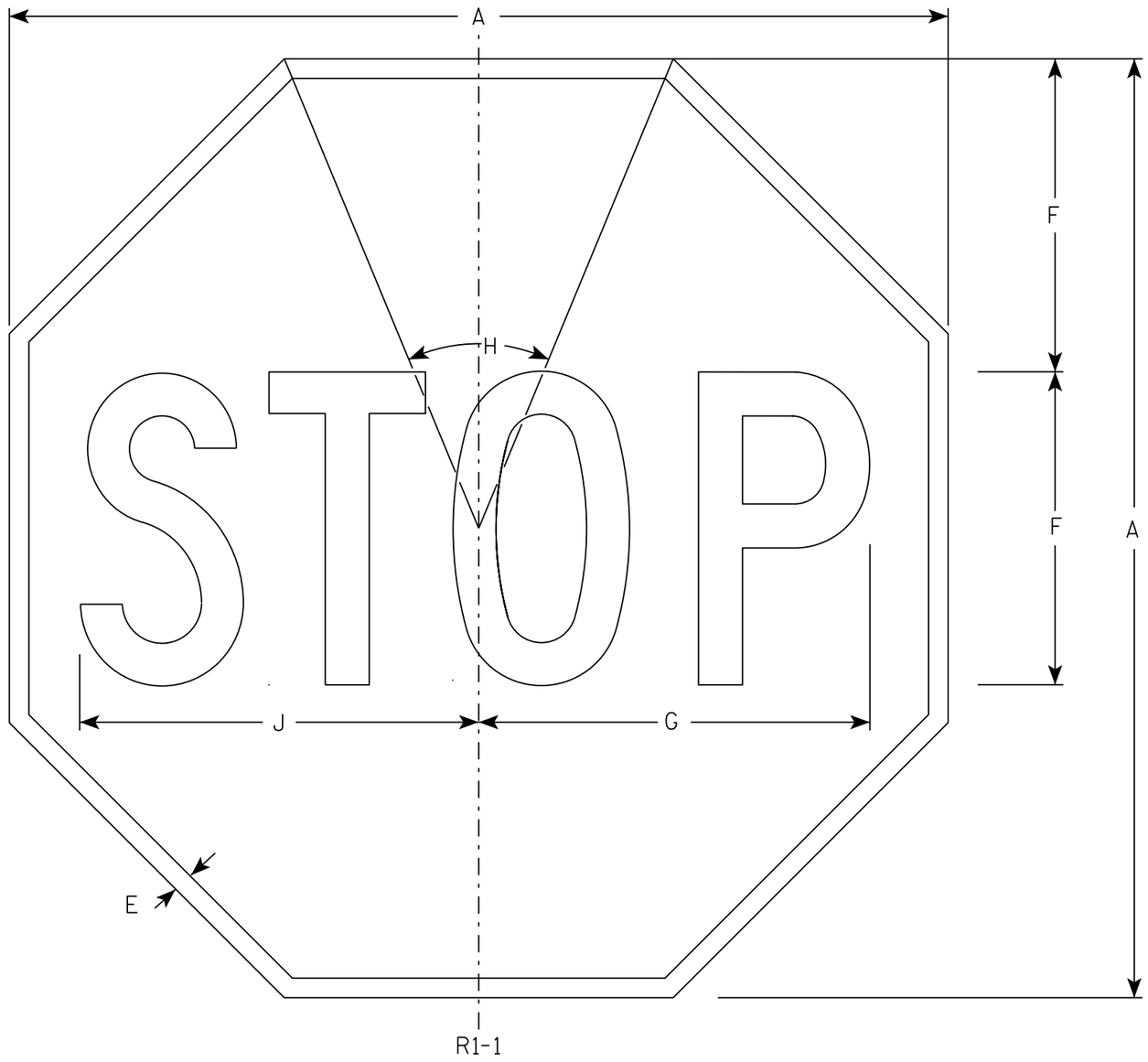
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATI 232 M6-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 01-DEC-2015 17:57 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



NOTES

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

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

STANDARD SIGN

R1-1

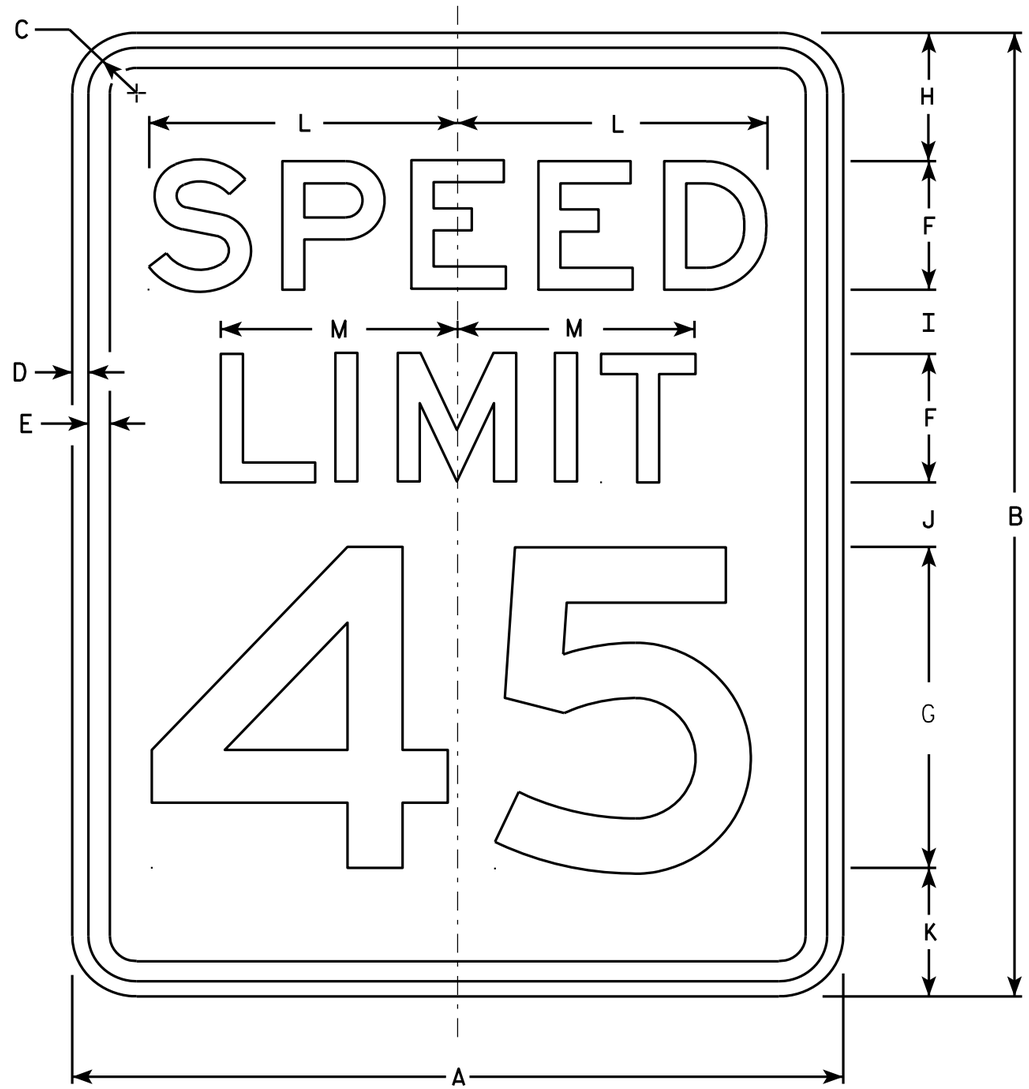
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 233	E



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

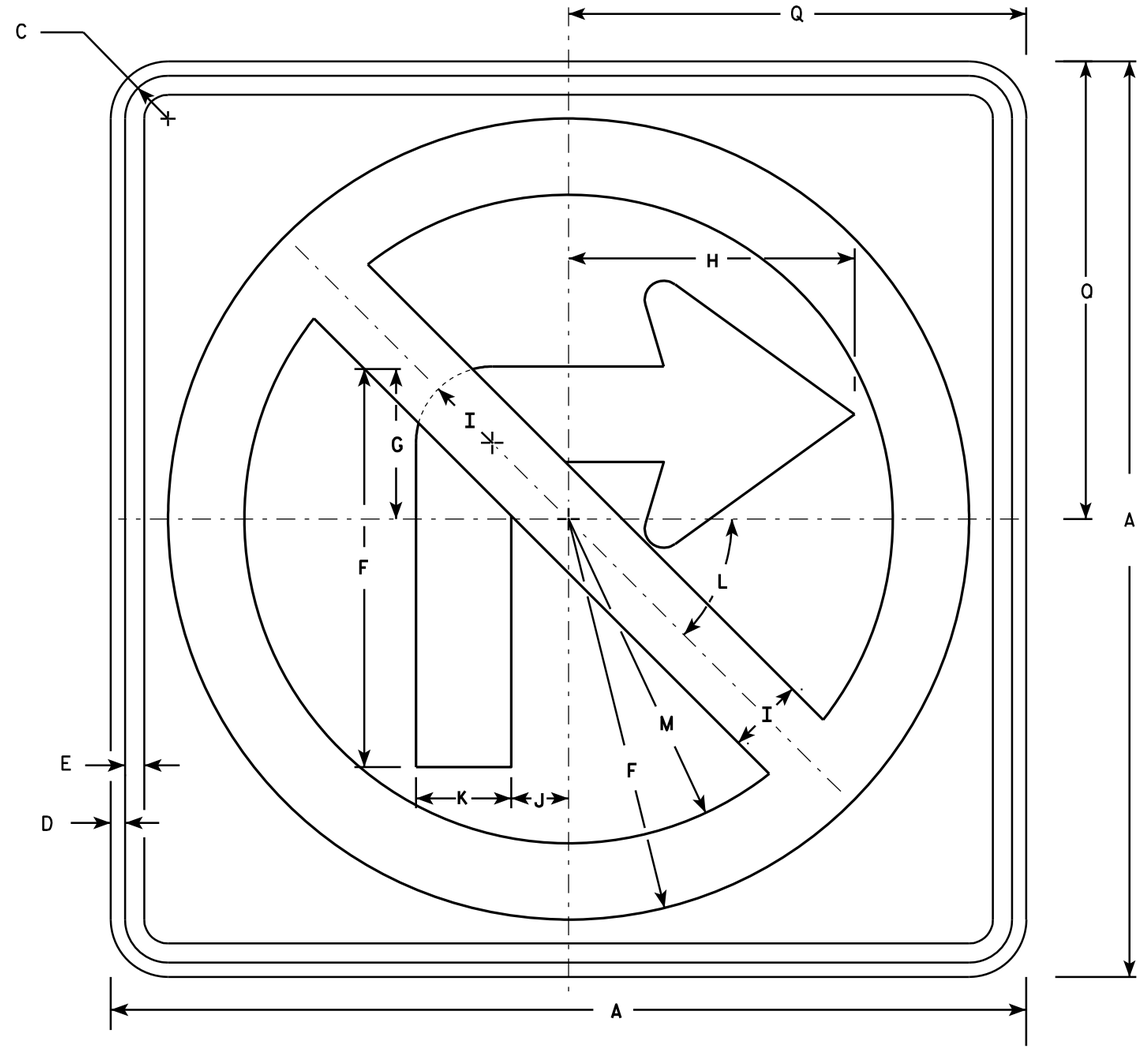
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

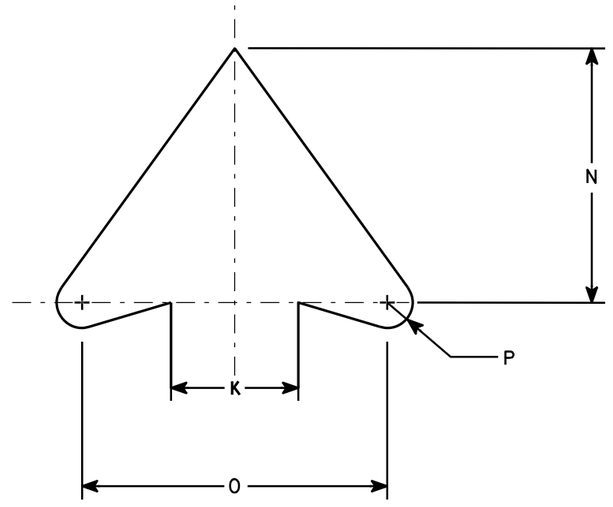
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 234	E



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

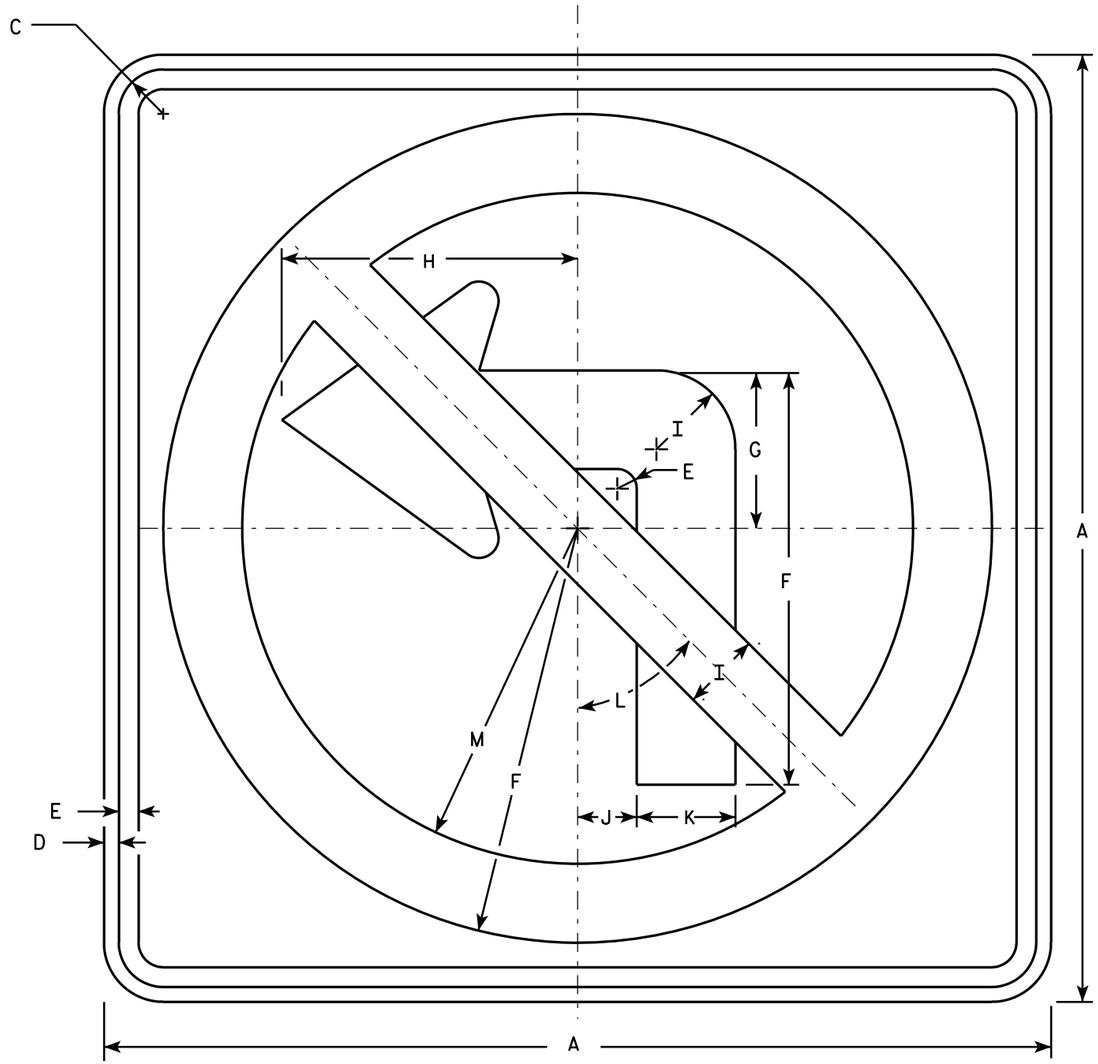
STANDARD SIGN
R3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-1.5

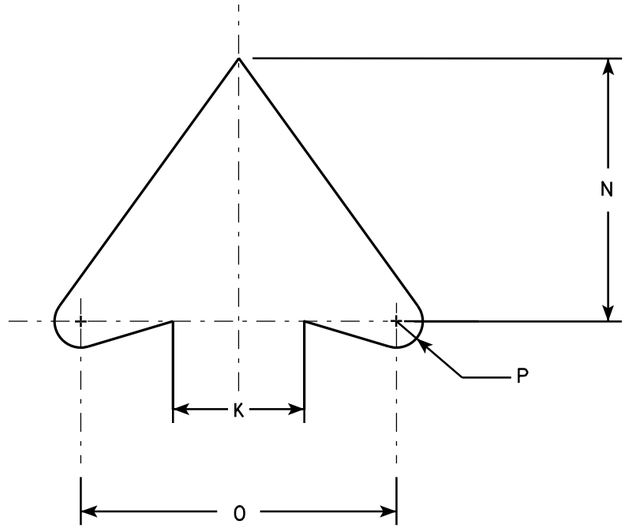
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 235	E



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

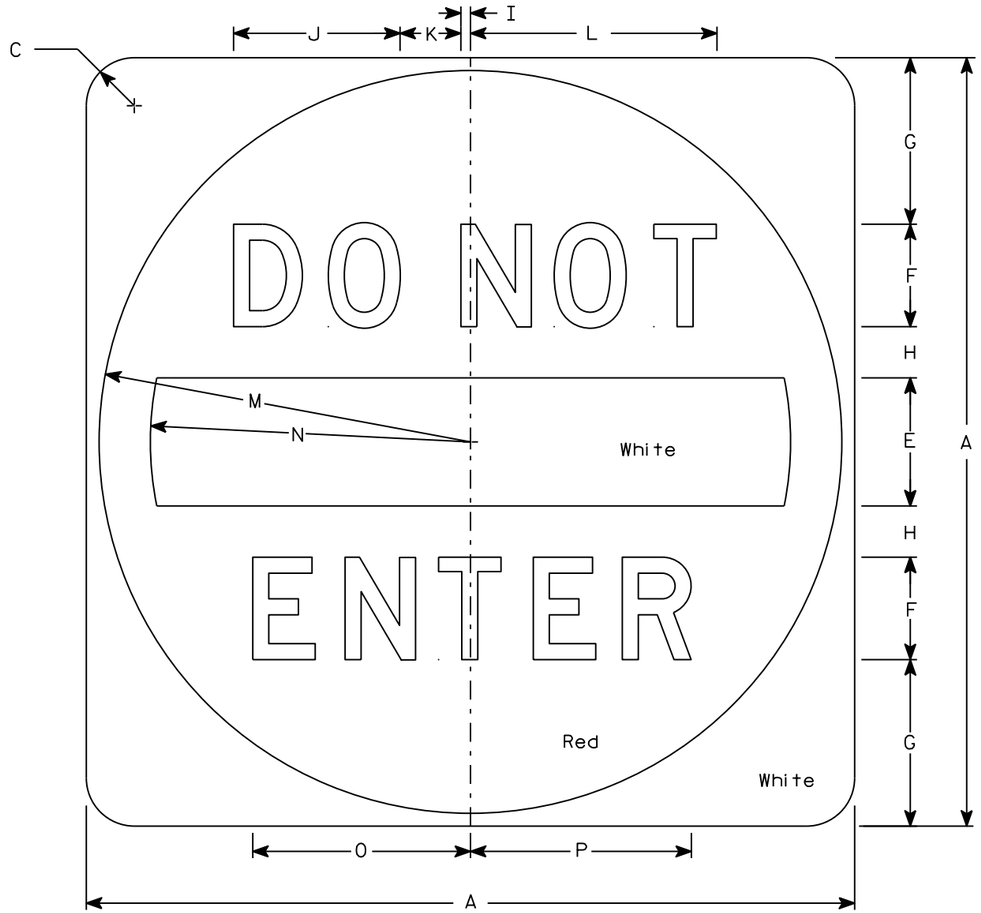
STANDARD SIGN
R3-2

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: 236	E



R5-1

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 7/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 5/8	14 1/2	12 1/2	8 1/2	8 5/8											6.25
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 7/8											16.0

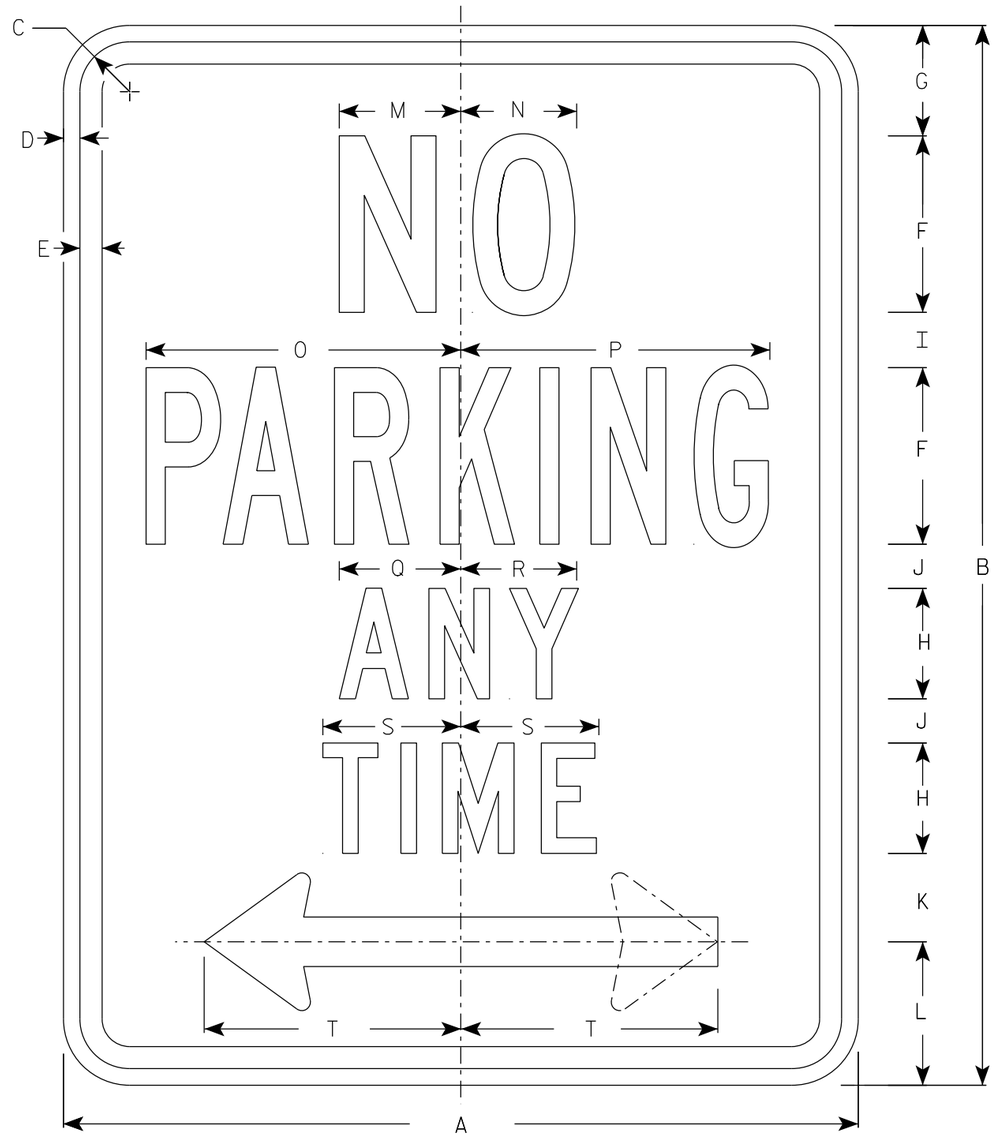
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

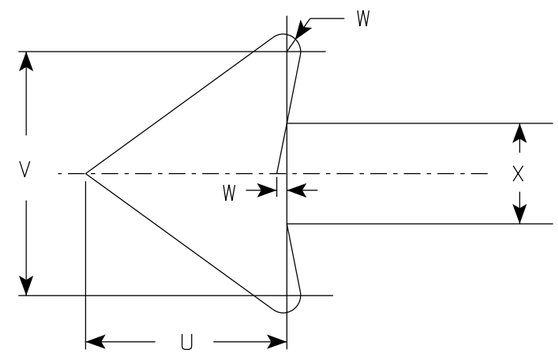
APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 237 | E



R7-1



NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 5
4. Lines 1, 3 and 4 are series C, line 2 is series B.
5. R7-1D (double arrow)
   R7-1L (left arrow)
   R7-1R (right arrow)

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2 1/4	2 1/8	2 1/2	3 7/8	1 1/2	1 3/4	1/8	3/4			1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 3/4	2 5/8	3 1/8	5 7/8	2 1/4	2 5/8	1/4	1 1/8			3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																											

STANDARD SIGN
R7-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2021 PLATE NO. R7-1.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 238 E

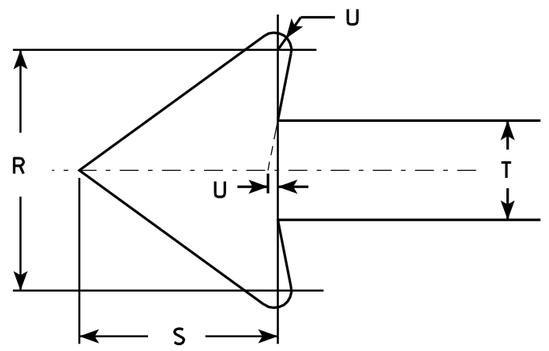


R7-2

*- See Note 5

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 7
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals as required & adjust spacing to achieve proper balance.
6. R7-2D (double arrow)
   R7-2L (left arrow)
   R7-2R (right arrow)
7. Lines 1, 3 and 4 are series C, line 2 is series B.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 7/8	1 1/2	7/8	7/8	2	2 1/2	2	2	4 7/8	4 7/8	3 7/8	1 3/4	1 1/2	3/4	1/8						1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	5 7/8	2 5/8	2 1/4	1 1/8	1/4						3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	7 3/4	3 1/2	3	1 1/2	1/4						5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	7 3/4	3 1/2	3	1 1/2	1/4						5.0
4																											
5																											

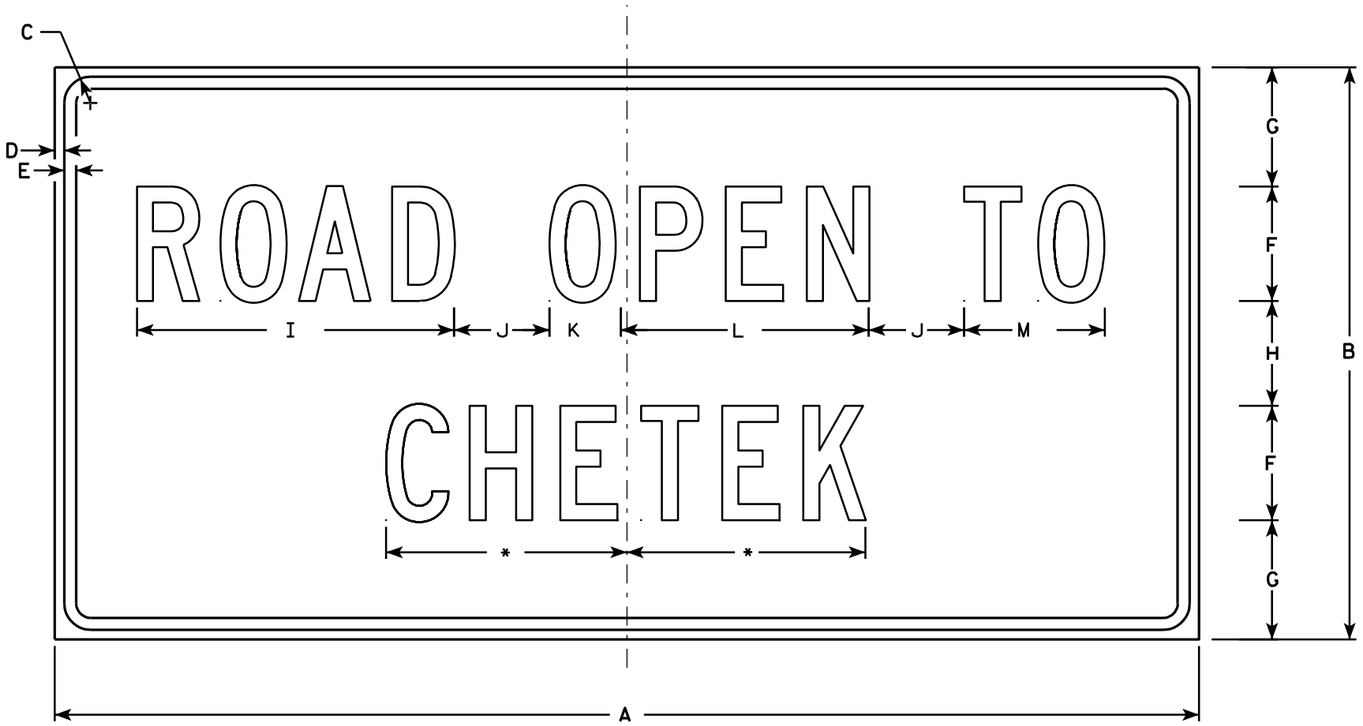
STANDARD SIGN
R7-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-2.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 239	E



R10-61

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate message and optically balance.

*See note 5

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	24	1 3/8	1/2	5/8	4	5 1/2	5	10 3/4	2	2 1/8	8 3/8	4 5/8														6.0
2S	60	30	1 3/8	1/2	5/8	6	6 1/4	5 1/2	16 5/8	5	3 3/4	13	7 3/8														12.5
2M	60	30	1 3/8	1/2	5/8	6	6 1/4	5 1/2	16 5/8	5	3 3/4	13	7 3/8														12.5
3																											
4																											
5																											

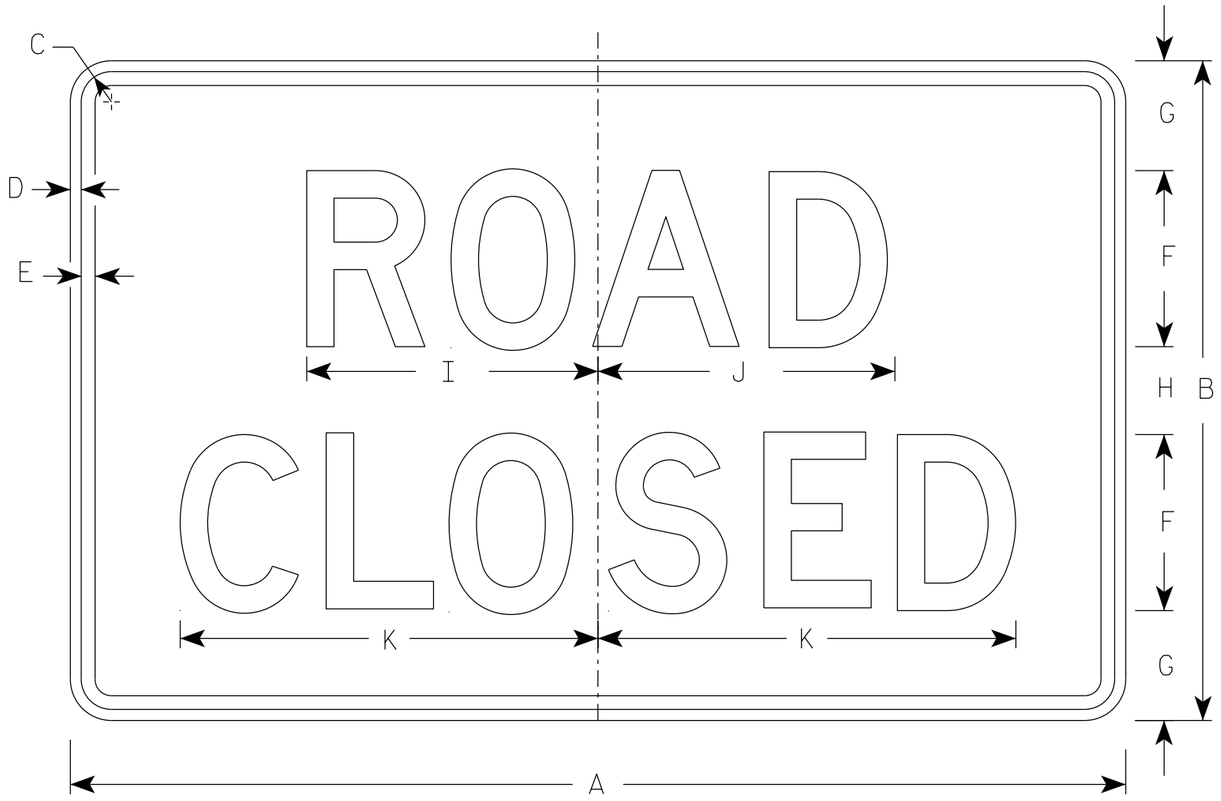
STANDARD SIGN
R10-61

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

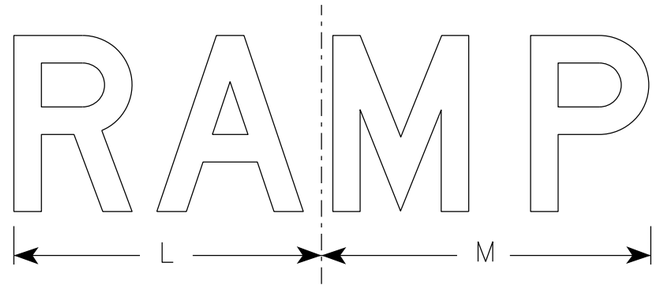
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 240	E



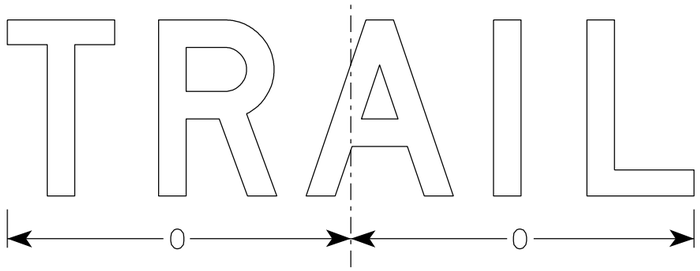
R11-2

NOTES

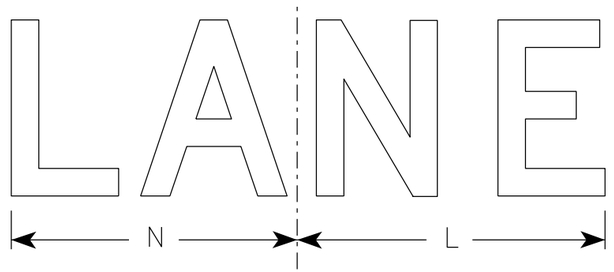
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the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

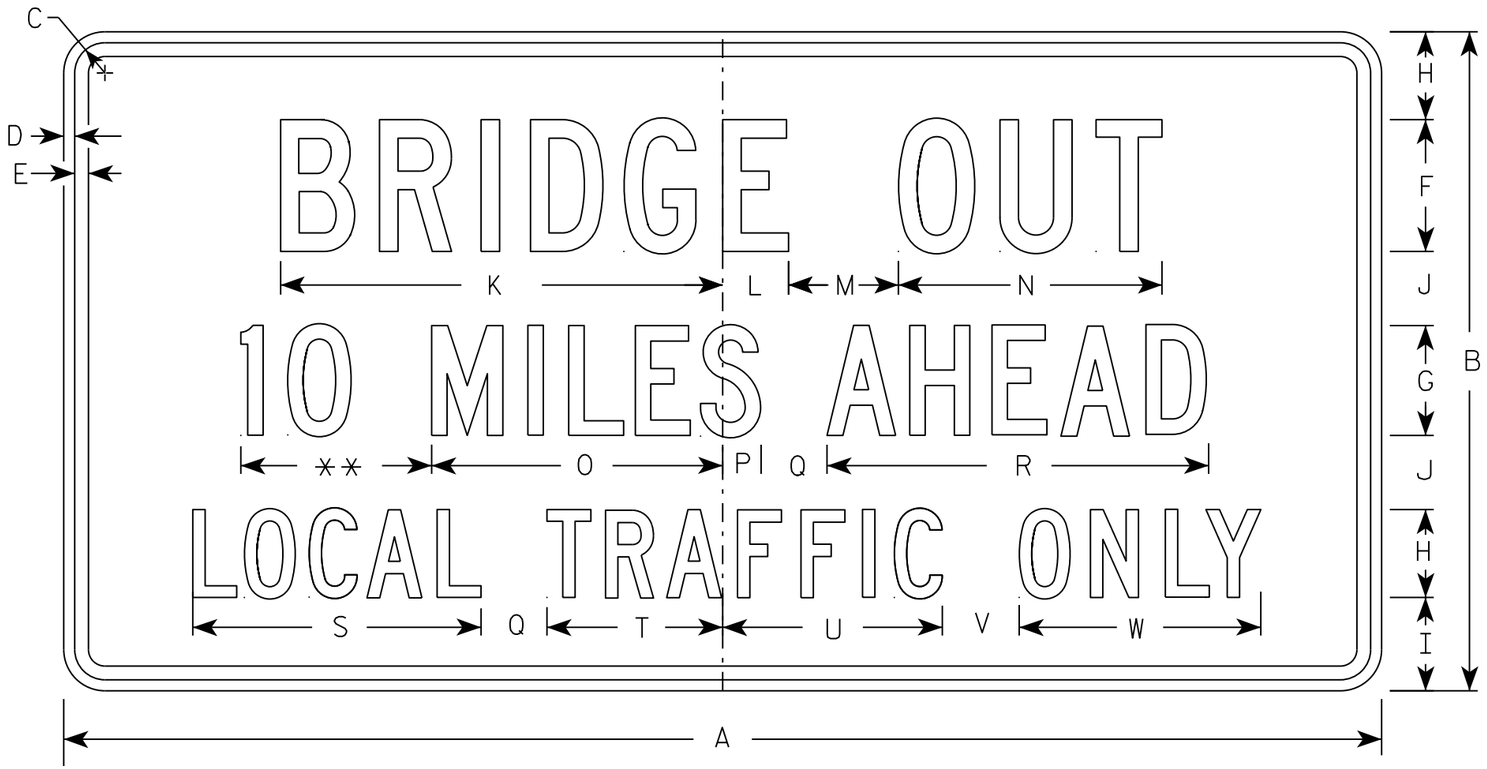
STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

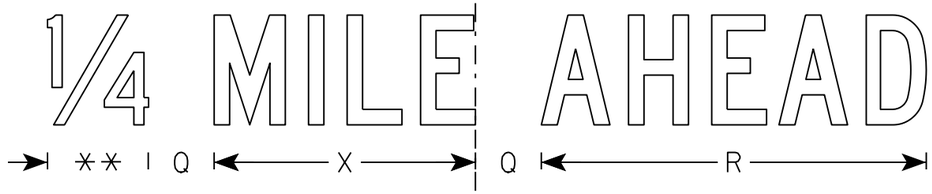
DATE 3/29/2021 PLATE NO. R11-2.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 241	E



R11-3B

** See Note 5



NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 3/8	1/2	5/8	4	3	2 1/2	2	2	13 1/4	2 1/4	3	8	8	1 1/2	2	10 3/4	8 3/8	4 3/4	6 1/2	2	6 3/4	7 1/8			4.5
2S	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11	11 7/8			12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11	11 7/8			12.5
3																											
4																											
5																											

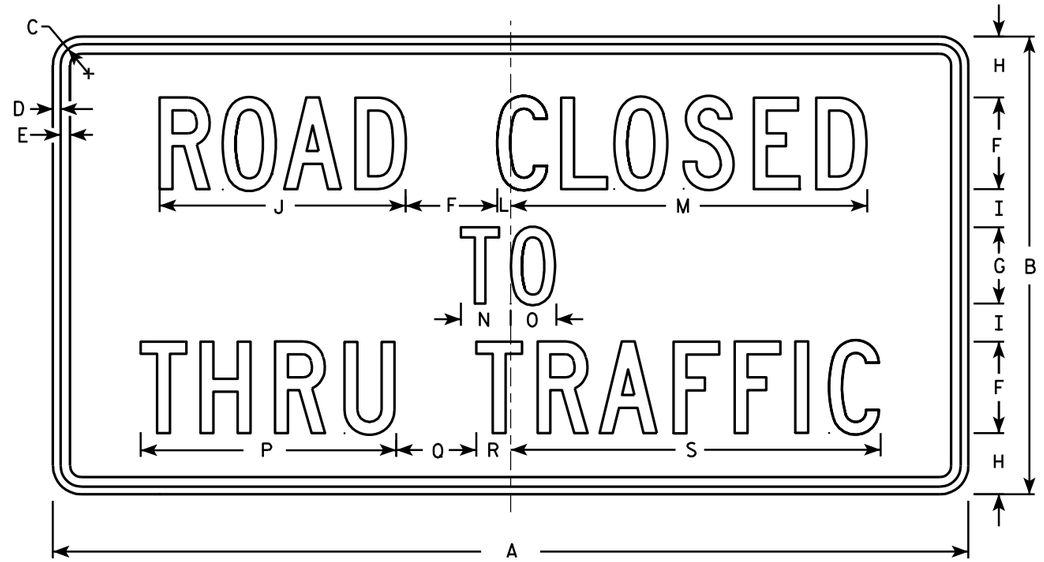
STANDARD SIGN
R11-3B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/17 PLATE NO. R11-3B.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 242 | E



R11-4

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

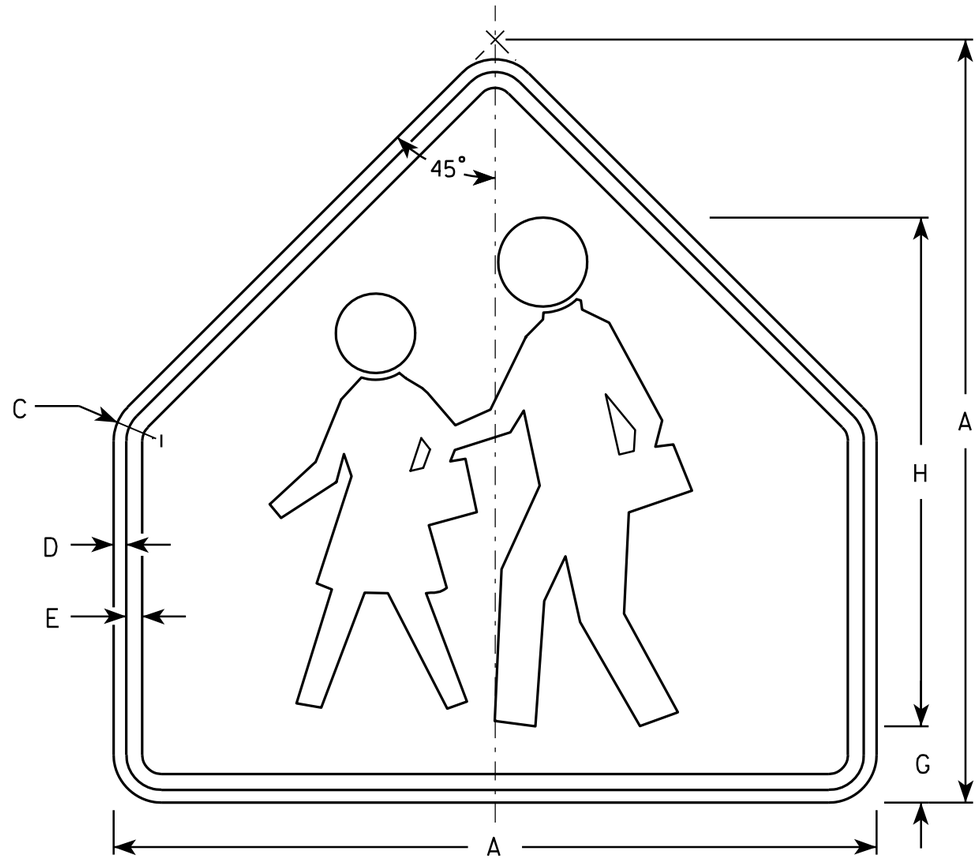
STANDARD SIGN
R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-4.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 243 | E



S1-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow-Green
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8		3	20																			4.69
2	36		1 5/8	5/8	3/4		3 1/2	24																			6.75
3	36		1 5/8	5/8	3/4		3 1/2	24																			6.75
4	48		2 1/4	3/4	1		4 3/4	32																			12
5																											

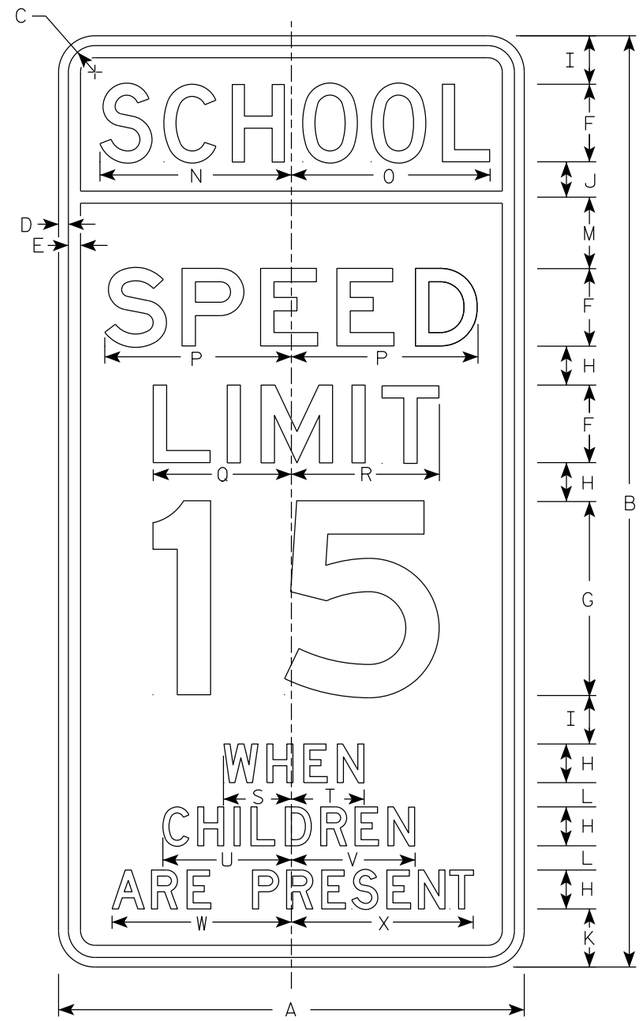
STANDARD SIGN
S1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/30/05 PLATE NO. S1-1.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 244	E



S4-51

NOTES

1. Sign is Type II - See Note 2 for Sheeting Type
2. Color:
   Background - See Note 4
   Message - Black
3. Message Series - See Note 5
4. Top panel (SCHOOL) background - Yellow Green - Type F Reflective
   Lower panel background - White - Type SH Reflective
5. From top to bottom:
   Lines 1, 5, 6 & 7 are series D
   Lines 2, 3 & 4 are series E
6. Line 4 substitute appropriate numerals and 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	24	48	1 3/8	1/2	5/8	4	10	2	2 1/2	1 3/4	3	1 1/4	3 3/4	9 7/8	10 1/4	9 5/8	7 1/8	7 5/8	3 1/2	3 3/8	6 5/8	6 3/8	9 1/4	9 3/8			8.00
3	36	72	2 1/4	3/4	1	6	15	3	3 3/4	2 3/4	4 1/2	1 7/8	5 1/2	15	15 1/4	14 1/2	11 1/4	11 1/2	5 1/2	5 3/4	10	9 3/4	14	14 1/8			18.00
4																											
5																											

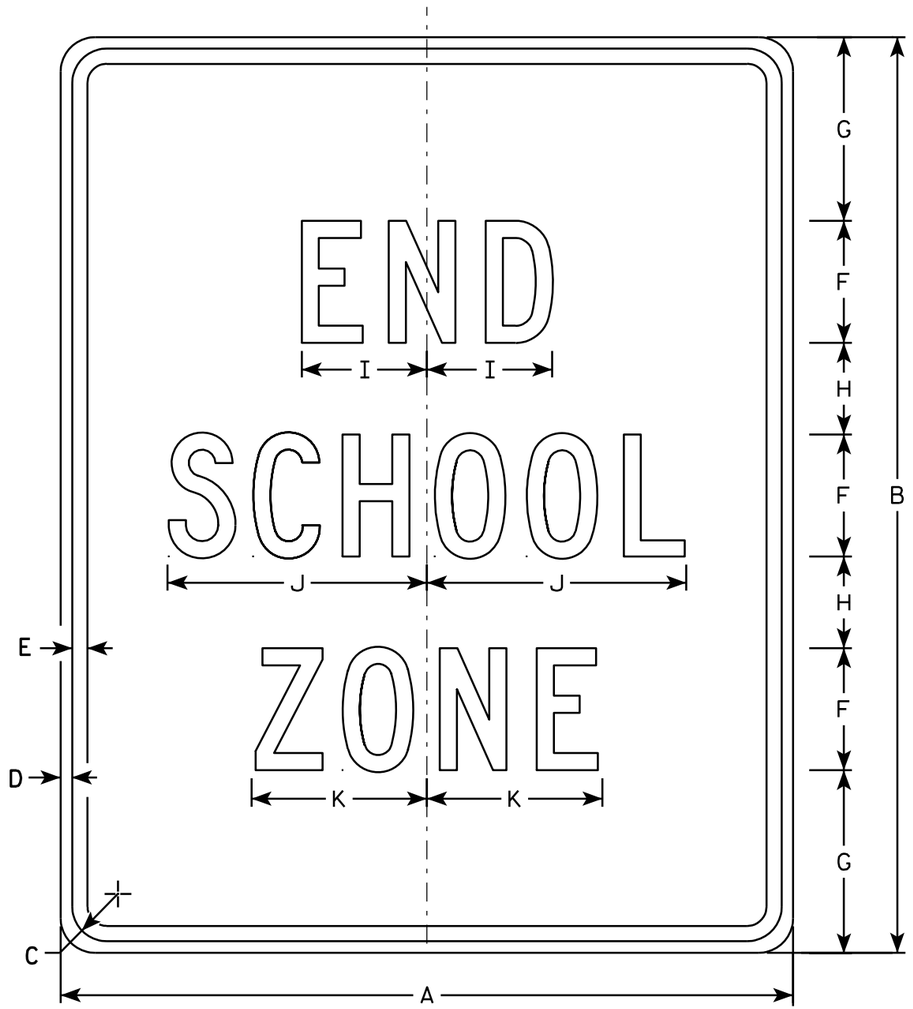
STANDARD SIGN
S4-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/27/2020 PLATE NO. S4-51.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 245 | E



S5-2

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 - 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																											
2	24	30	1 1/8	3/8	1/2	4	6	3	4 1/8	8 1/2	5 3/4																5.0
3	36	42	1 5/8	5/8	3/4	6	7	5	6 1/8	12 5/8	8 5/8																10.5
4																											
5																											

STANDARD SIGN
S5-2

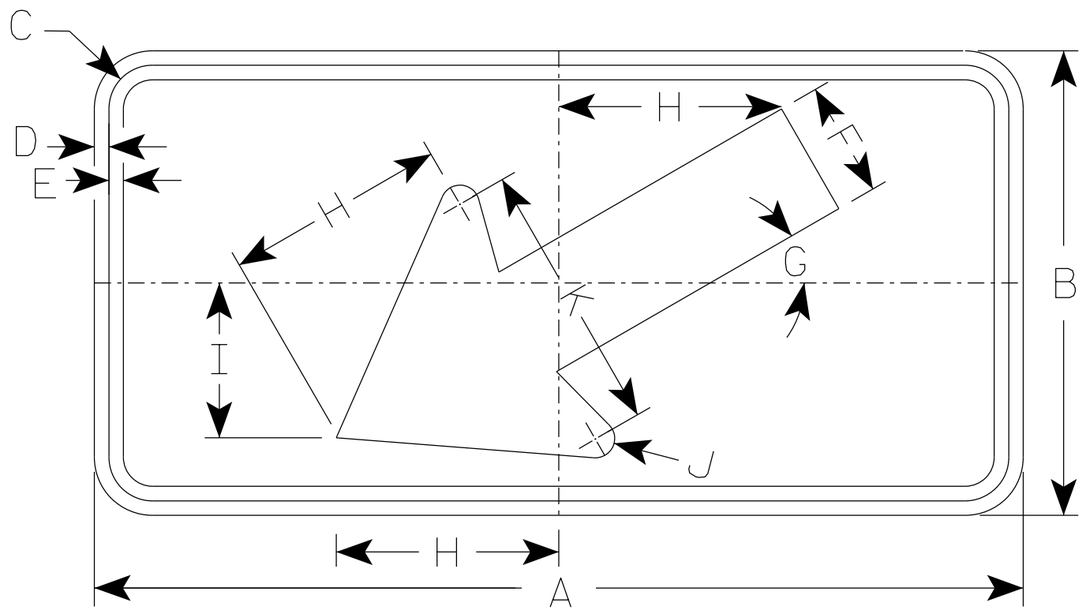
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/8/11 PLATE NO. S5-2.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 246 | E

7



S16-7L

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow-Green
   Message - Black
3. S16-7R are the same as S16-7L except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24	12	1 1/8	3/8	3/8	3	30°	5 3/4	4	1/2	7																2.0
2S	30	18	1 1/8	3/8	1/2	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
2M	30	18	1 1/8	3/8	1/2	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
3	30	18	1 1/8	3/8	1/2	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
4	48	24	1 3/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0
5																											

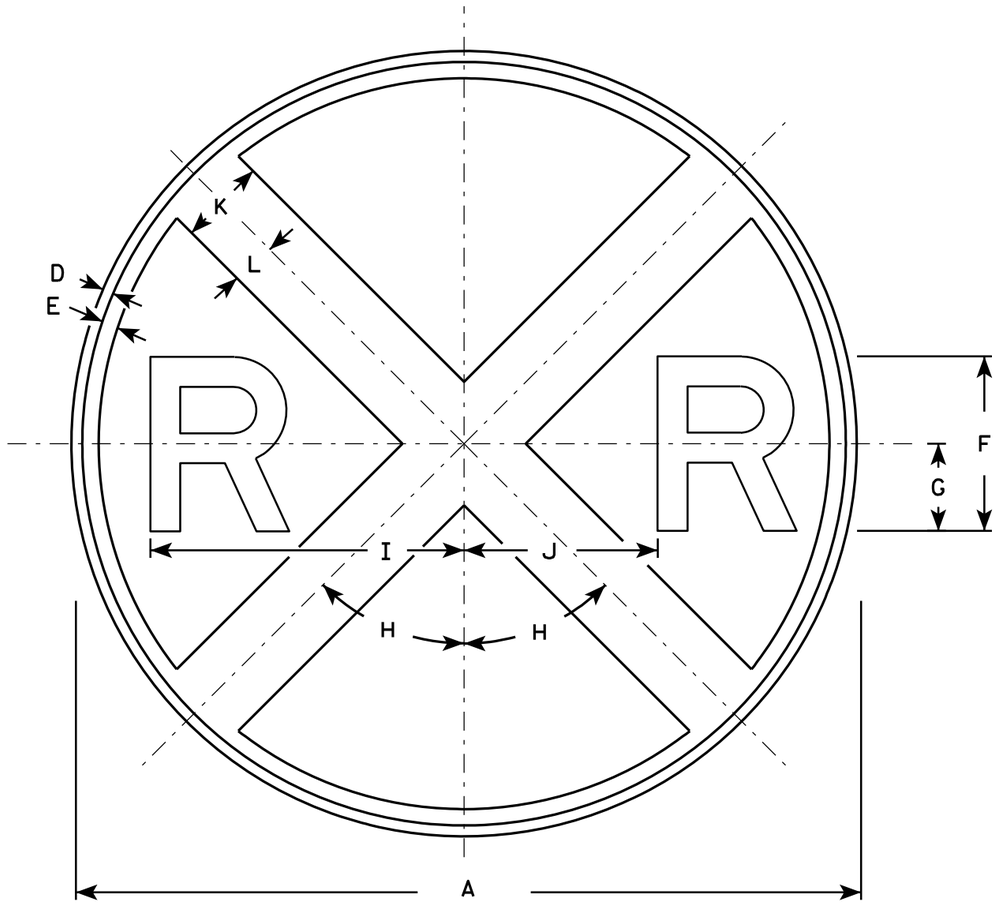
STANDARD SIGN
S16-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/2021 PLATE NO. S16-7.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 247 E



W10-1

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30			3/8	5/8	7	3 1/2	45°	12 3/8	7 1/8	3	1 1/2															4.91
2S	36			5/8	3/4	8	4	45°	14 3/8	8 5/8	4	2															7.07
2M	36			5/8	3/4	8	4	45°	14 3/8	8 5/8	4	2															7.07
3																											
4	48			3/4	1 1/4	10	5	45°	18 3/8	11 5/8	5	2 1/2															12.57
5																											

STANDARD SIGN
W10-1

WISCONSIN DEPT OF TRANSPORTATION

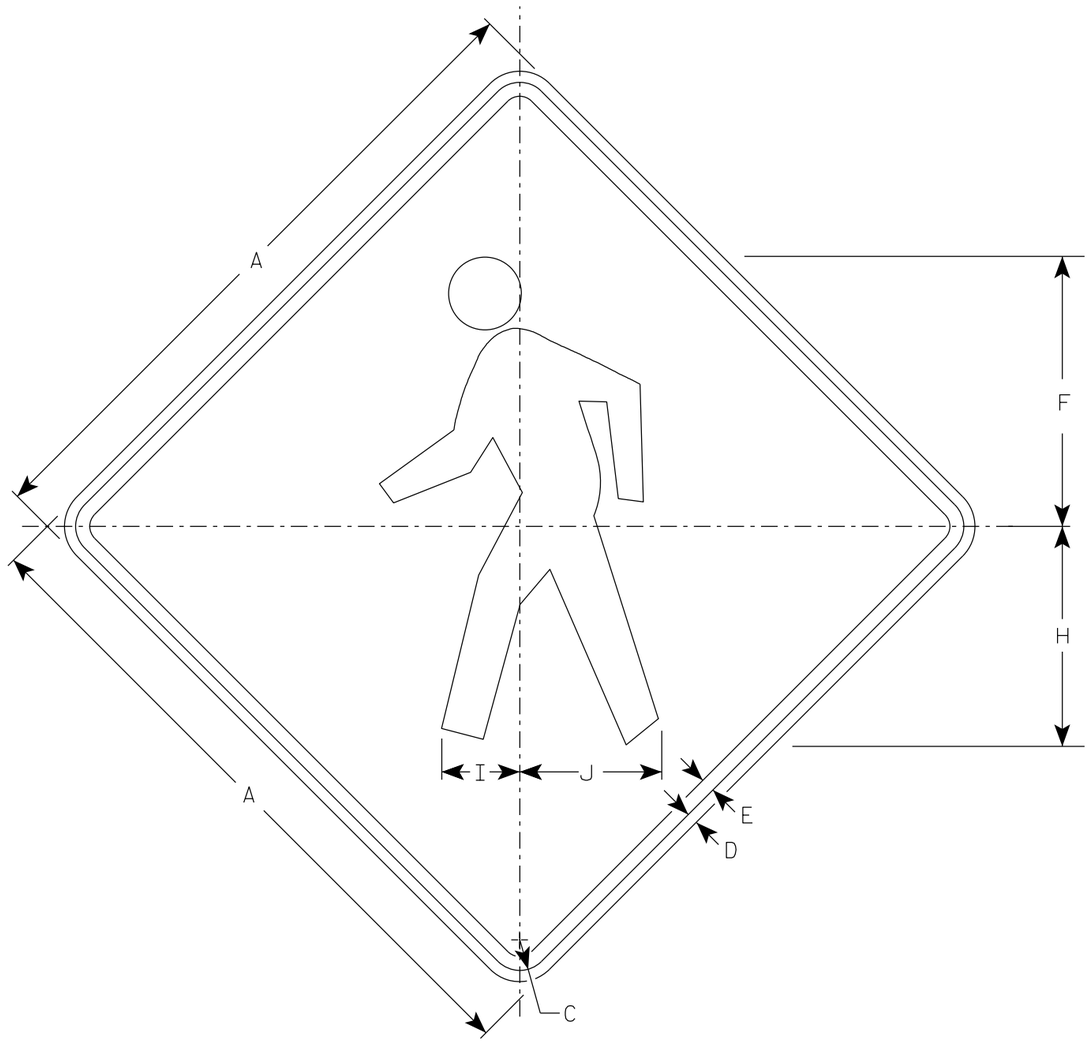
APPROVED Matthew R Rauch for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 248	E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black



W11-2

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	9 3/4		7 7/8	2 7/8	5 1/8																	4.0
2S	30		1 3/8	1/2	5/8	12 1/8		9 7/8	3 1/2	6 3/8																	6.25
2M	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
3	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
4	48		2 1/4	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
5																											

STANDARD SIGN

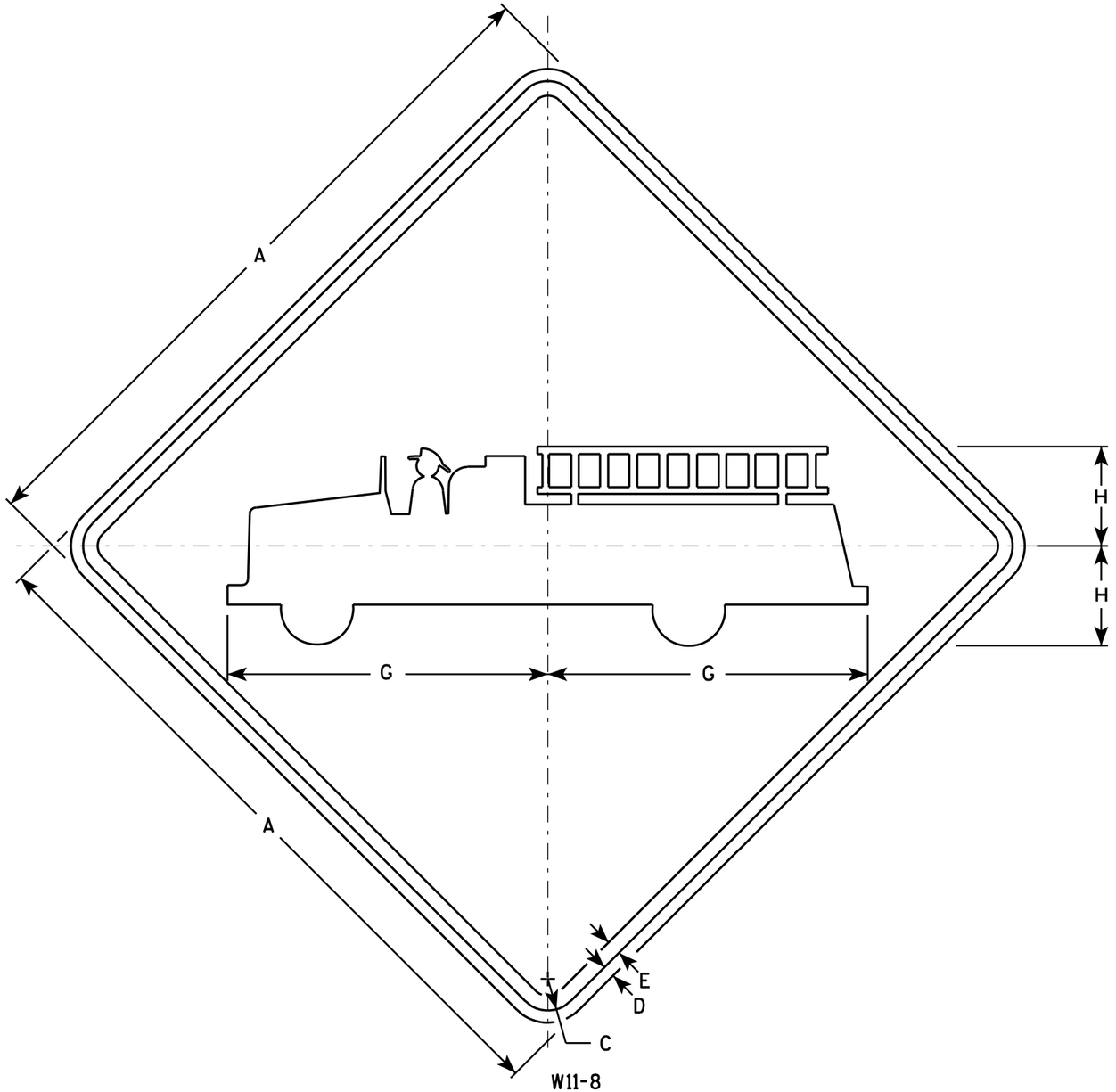
W11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/8/2020 PLATE NO. W11-2.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 249 E



W11-8

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		11	3 3/8																			4.0
2S	30		1 3/8	1/2	5/8		13 3/4	4 3/8																			6.25
2M	30		1 3/8	1/2	5/8		13 3/4	4 3/8																			6.25
3	36		1 5/8	5/8	3/4		16 1/2	5 1/4																			9.0
4	48		2 1/4	3/4	1		22	7																			16.0
5																											

STANDARD SIGN
W11-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W11-8.7

PROJECT NO:

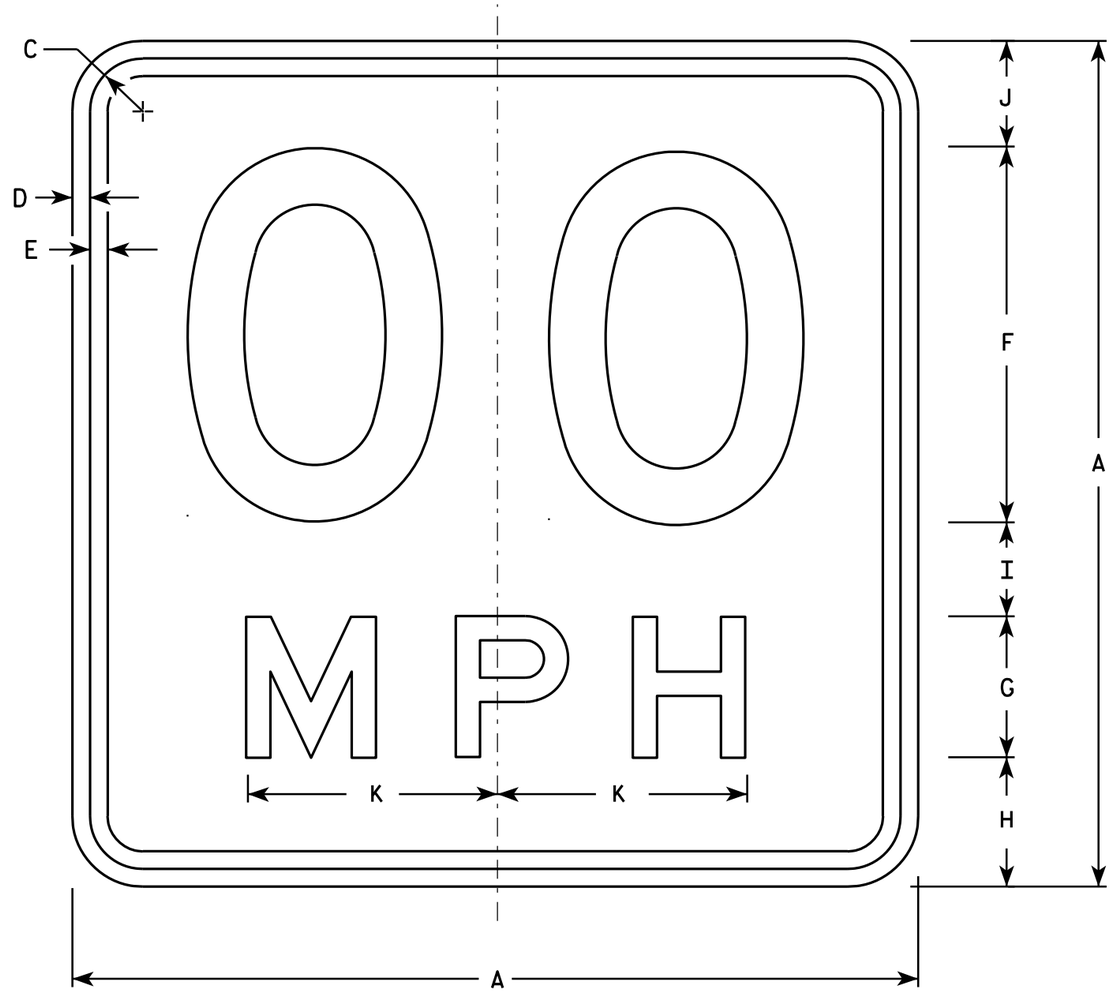
SHEET NO: 250 E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W118.DGN PLOT DATE : 13-MAR-2013 12:58 PLOT BY : mscj9h

WISDOT/CADDS SHEET 42

7

7



W13-1

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

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - See Note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is Series E

	SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
	1	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2S	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
	3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
	4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
	5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

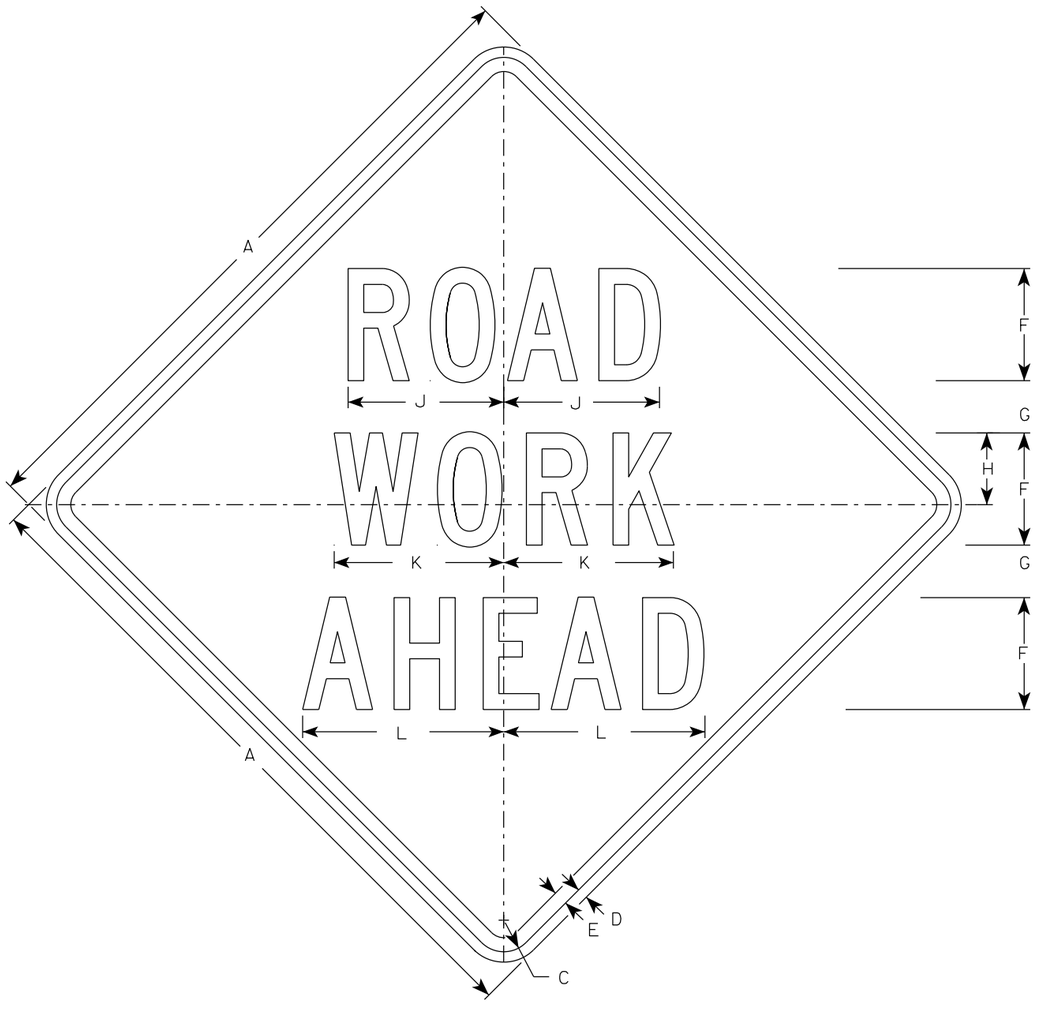
STANDARD SIGN
W13-1

WISCONSIN DEPT OF TRANSPORTATION

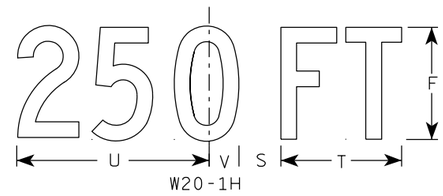
APPROVED Matthew R Rauch
For State Traffic Engineer

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

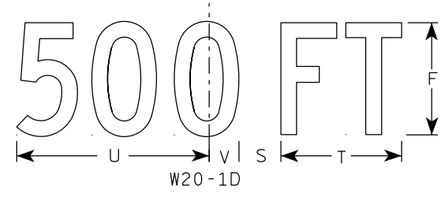
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 251 | E



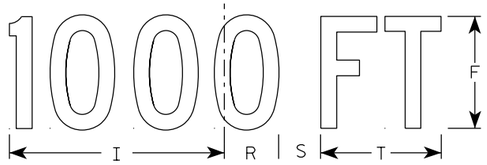
W20-1A



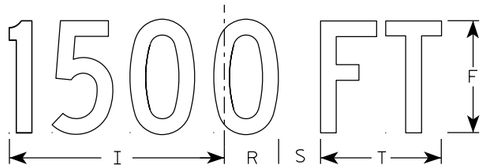
W20-1H



W20-1D



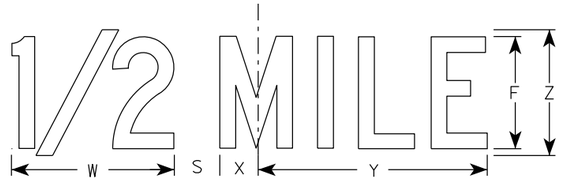
W20-1C



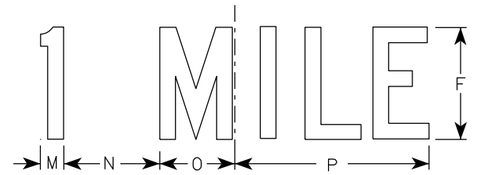
W20-1B

NOTES

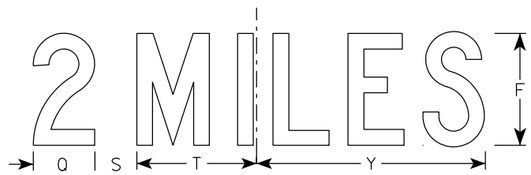
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



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:

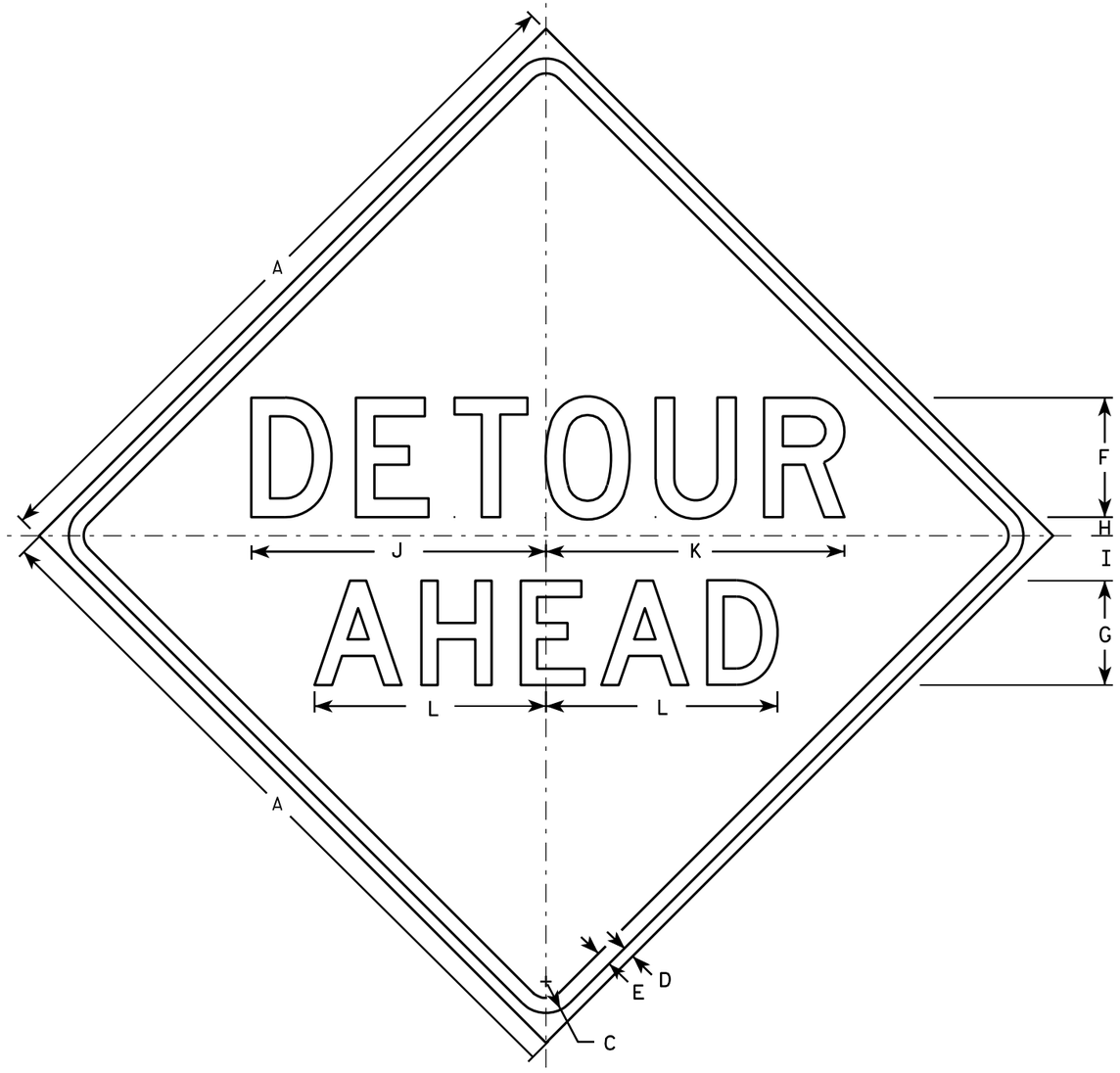
SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 25-MARCH-2020 PLOT BY : dotc4c

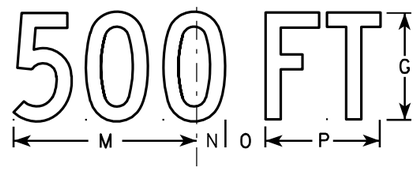
WISDOT/CADDS SHEET 42

7

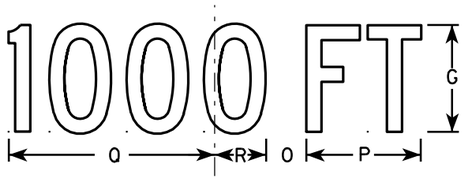
7



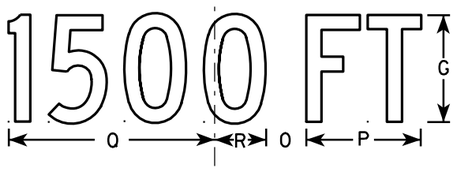
W20-2A



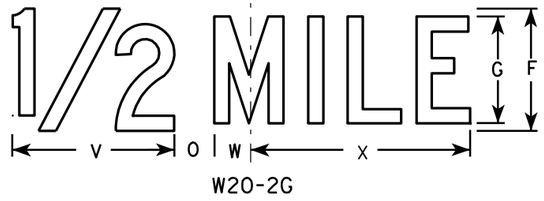
W20-2D



W20-2C



W20-2B



W20-2G



W20-2F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series D.
   Line 2 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

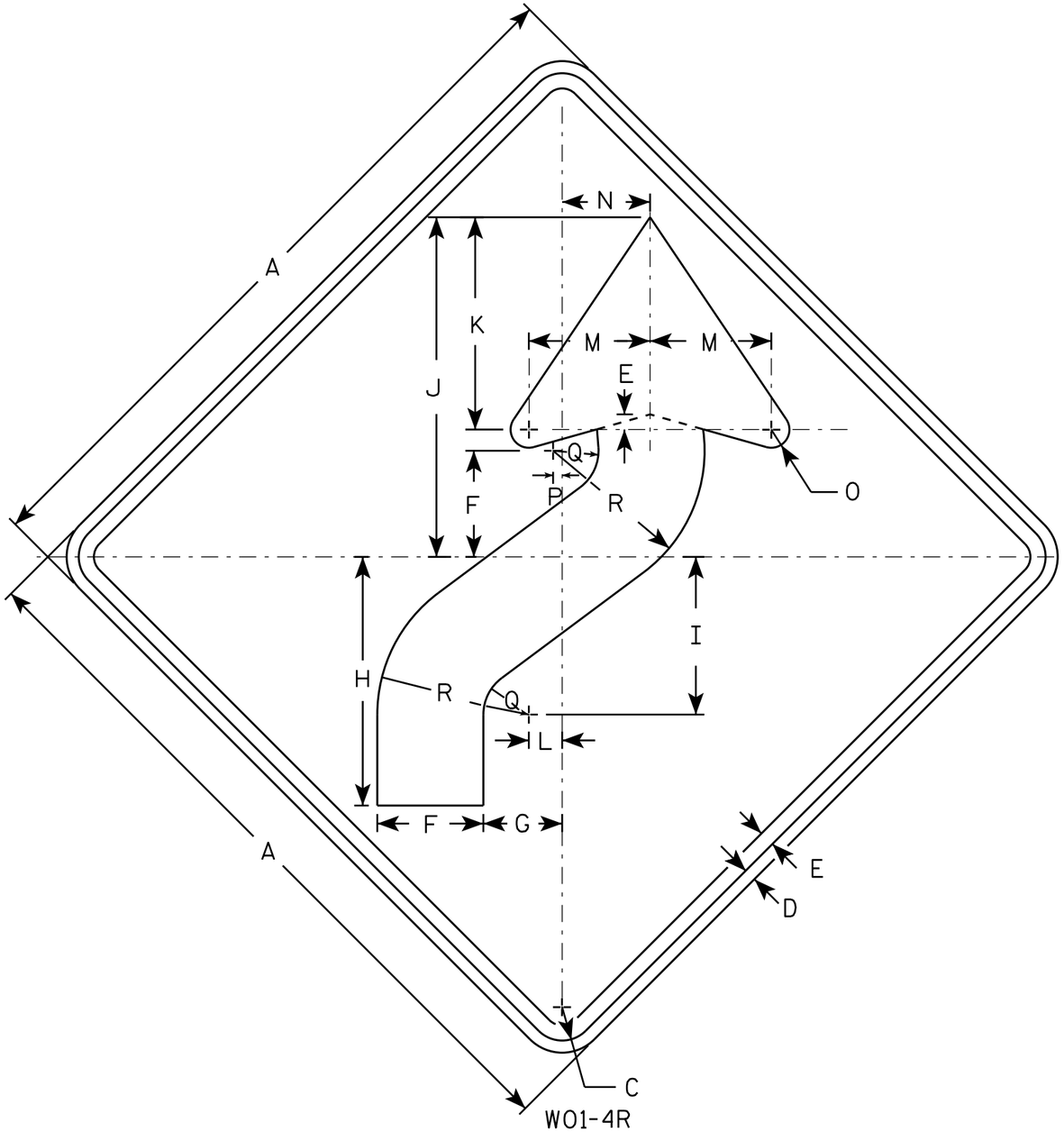
STANDARD SIGN
W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 253	E



W01-4R

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. W01-4L is the same as W01-4R 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
W01-4

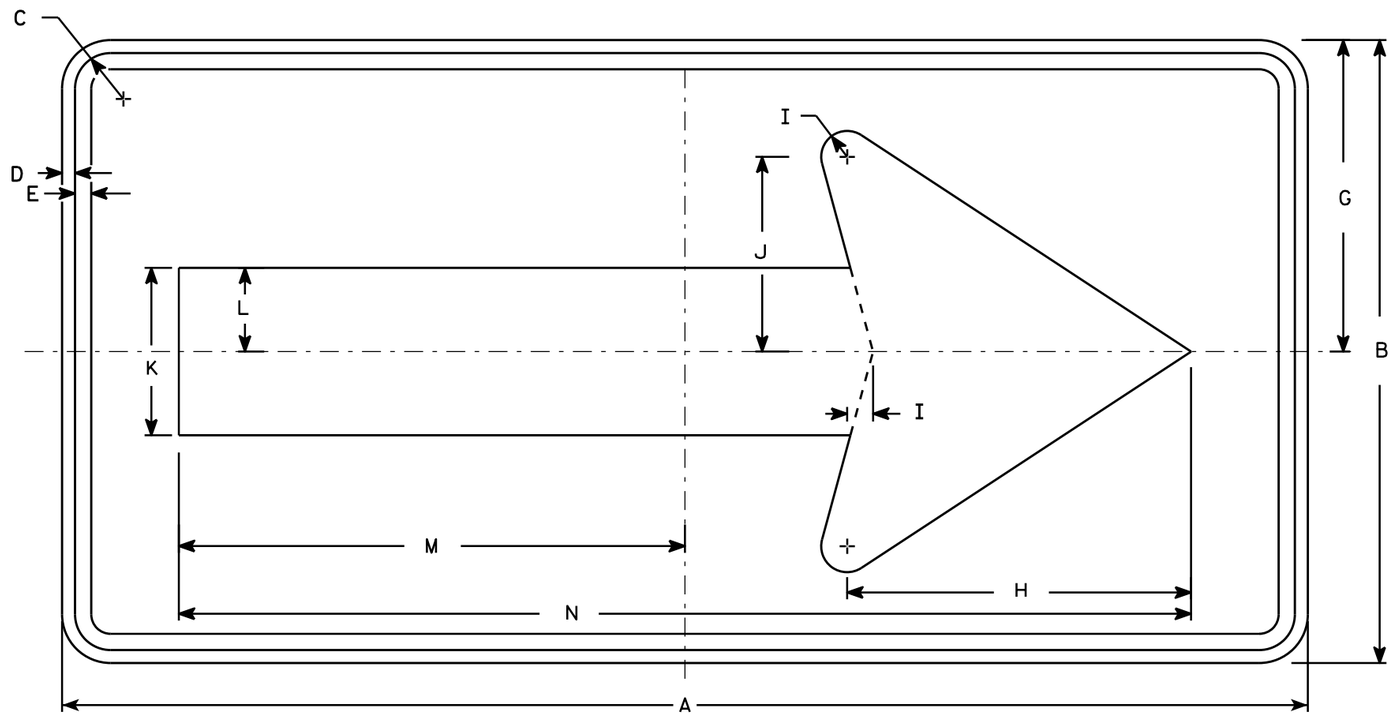
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO W01-4.1

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W014.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

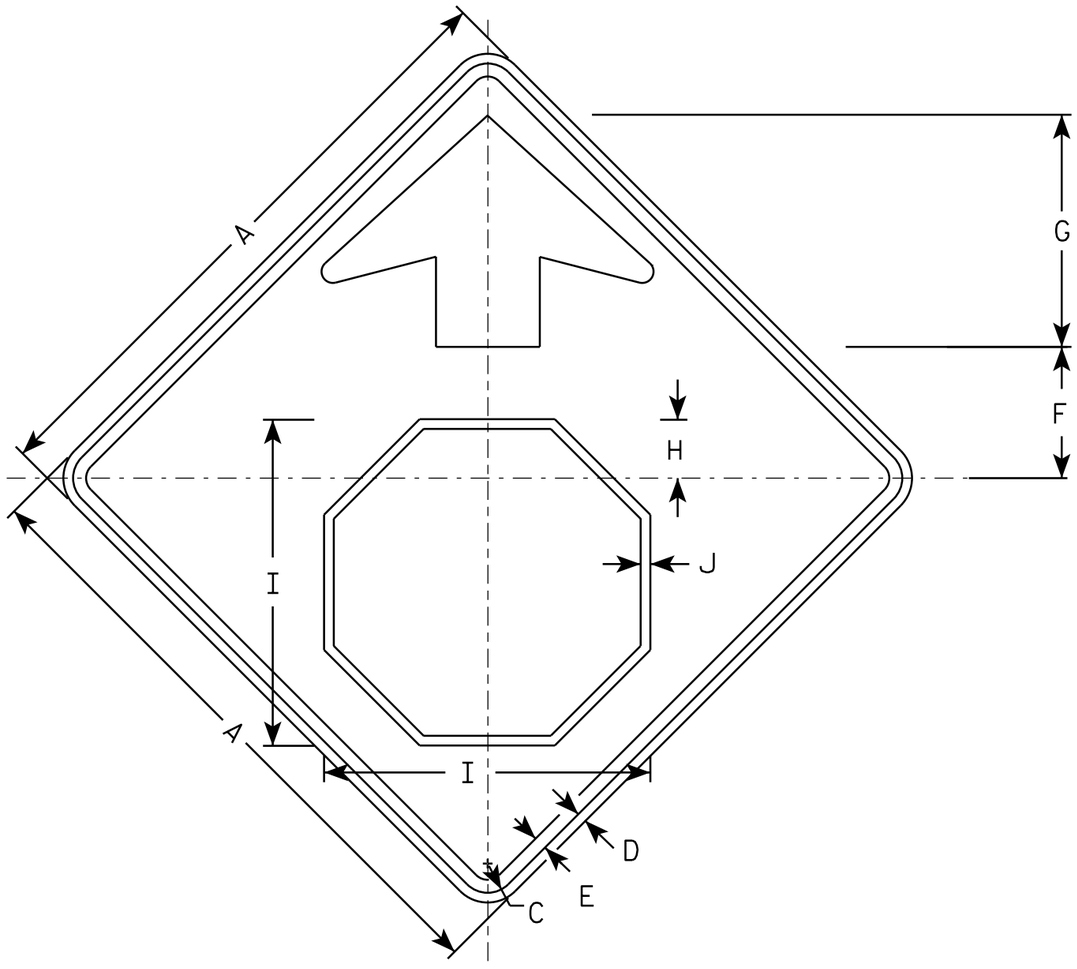
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO. W01-6.1

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

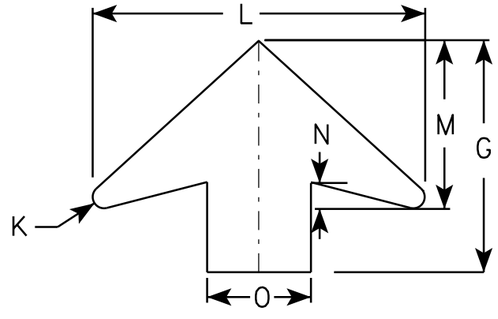
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W016.DGN PLOT DATE : 28-FEB-2014 11:37 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.837526:1.000000 WISDOT/CADDS SHEET 42



W03-1

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - ORANGE
   Arrow & Border - BLACK
   Stop Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
2S	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
2M	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
3	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0

STANDARD SIGN
W03-1

WISCONSIN DEPT OF TRANSPORTATION

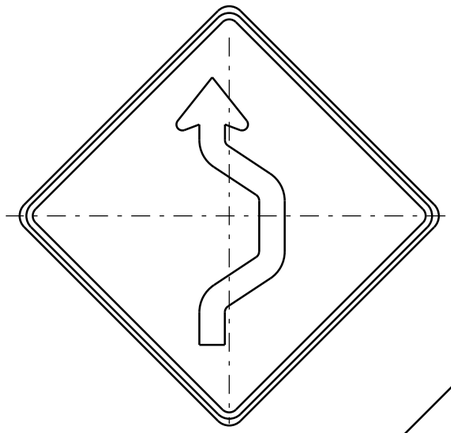
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 256 03-1.1

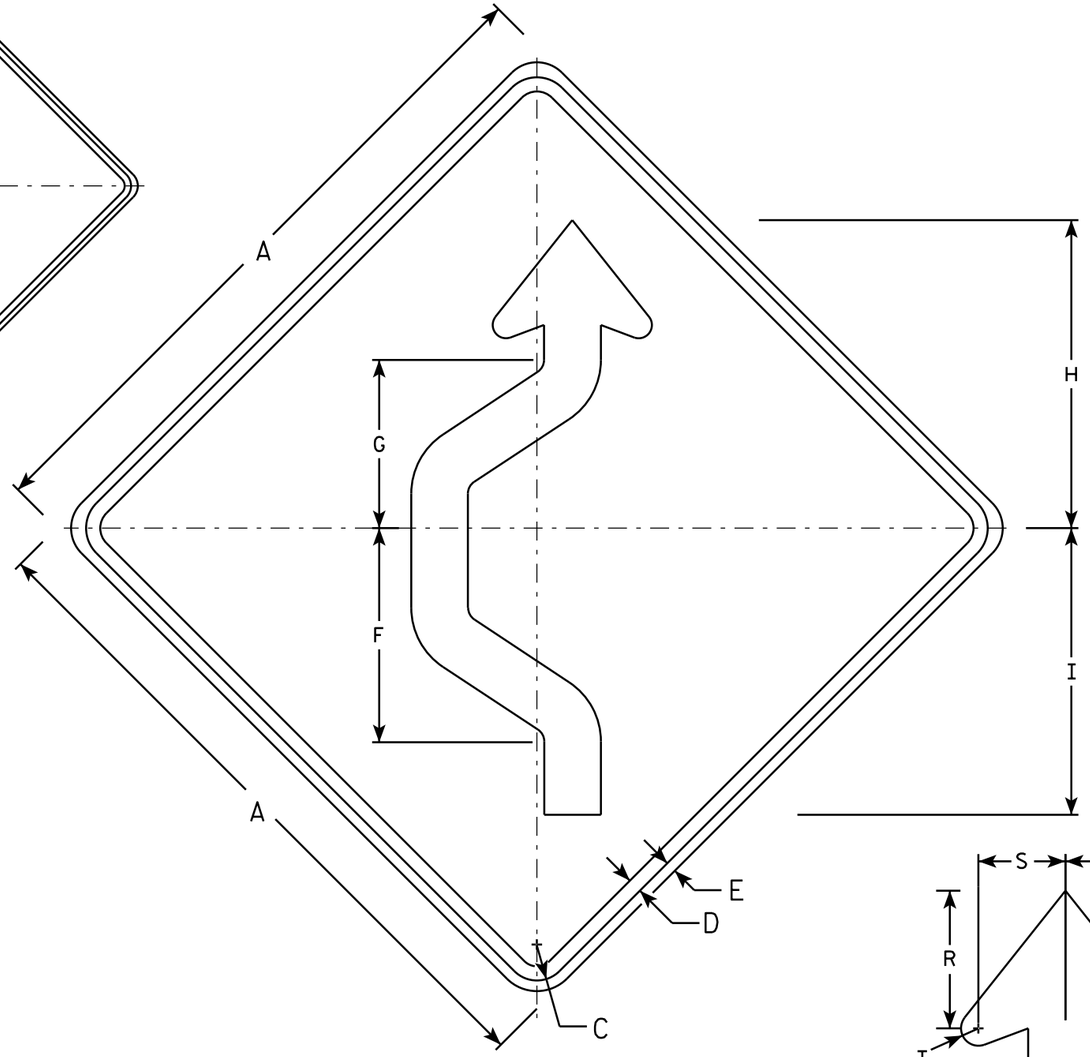
PROJECT NO: | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W031.DGN PLOT DATE : 20-NOV-2013 10:54 PLOT BY : mscsja

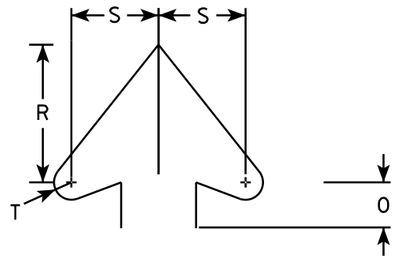
WISDOT/CADDS SHEET 42



W024-1R



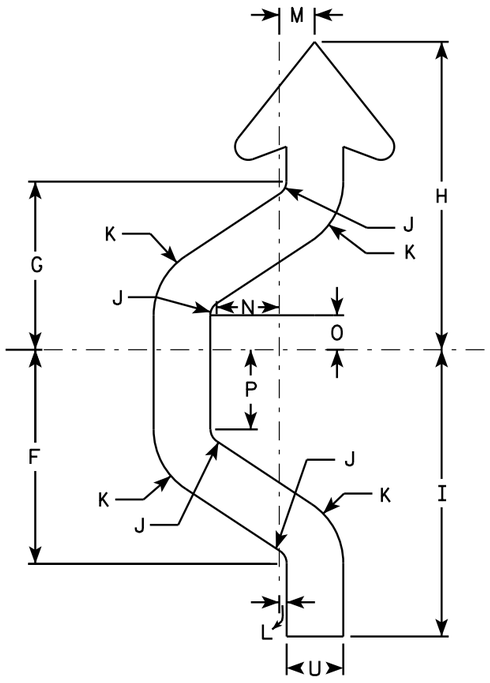
W024-1L



Arrowhead Detail

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. W024-1R is the same as W024-1L except reversed along the vertical centerline.



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 3/8	5/8	1/2	11 3/8	8 7/8	16 3/8	15 1/4	3/4	3 3/4	3/8	2	3 3/8	1 7/8	4 1/4		5 1/2	3 1/2	5/8	3						9
2S	48		2 1/4	1	3/4	15 1/8	11 7/8	21 3/4	20 1/4	1	5	1/2	2 1/2	4 3/8	2 3/8	5 5/8		7 3/8	4 3/4	7/8	4						16
2M	48		2 1/4	1	3/4	15 1/8	11 7/8	21 3/4	20 1/4	1	5	1/2	2 1/2	4 3/8	2 3/8	5 5/8		7 3/8	4 3/4	7/8	4						16
3	48		2 1/4	1	3/4	15 1/8	11 7/8	21 3/4	20 1/4	1	5	1/2	2 1/2	4 3/8	2 3/8	5 5/8		7 3/8	4 3/4	7/8	4						16
4	48		2 1/4	1	3/4	15 1/8	11 7/8	21 3/4	20 1/4	1	5	1/2	2 1/2	4 3/8	2 3/8	5 5/8		7 3/8	4 3/4	7/8	4						16
5	48		2 1/4	1	3/4	15 1/8	11 7/8	21 3/4	20 1/4	1	5	1/2	2 1/2	4 3/8	2 3/8	5 5/8		7 3/8	4 3/4	7/8	4						16

STANDARD SIGN
W024-1 L & R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

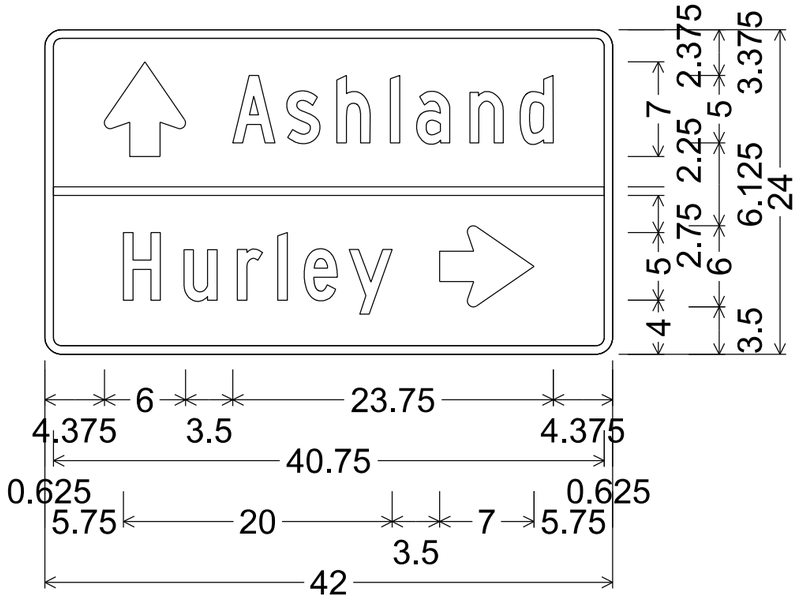
DATE 9/25/2013 PLATE No. W024-1.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

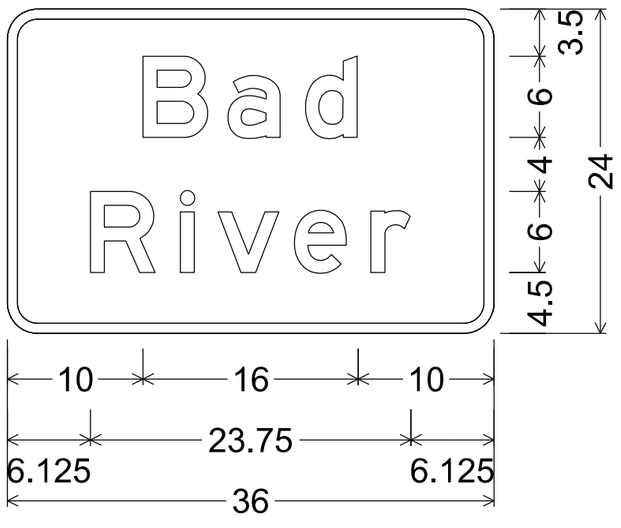
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W0241.DGN PLOT DATE : 25-SEP-2013 13:08 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 10.702132:1.000000 WISDOT/CADDS SHEET 42

NOTES

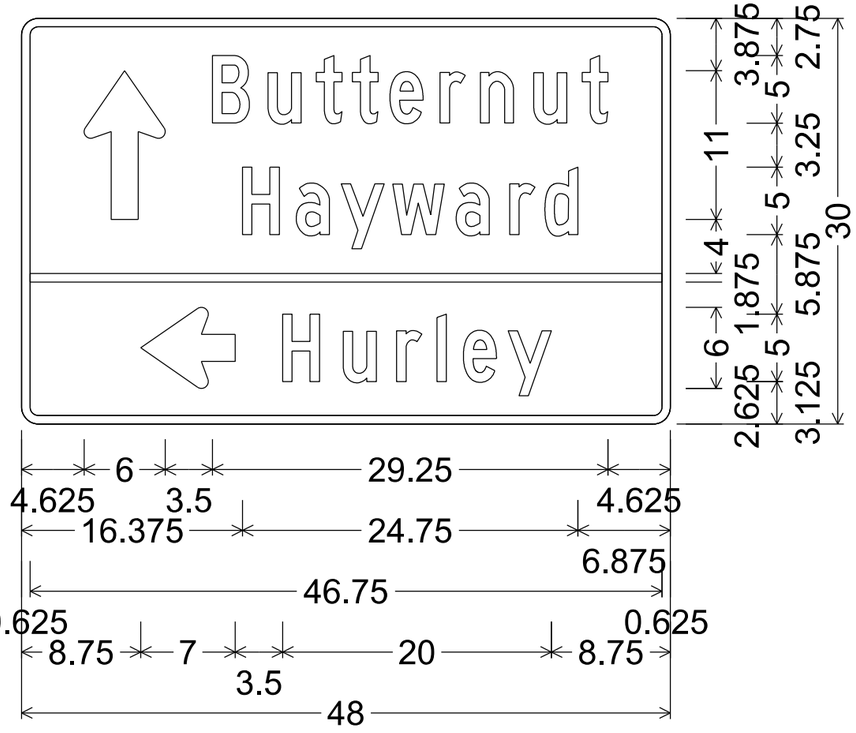
1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - C or as noted



D1-2; 1.250" Radius, 0.625" Border



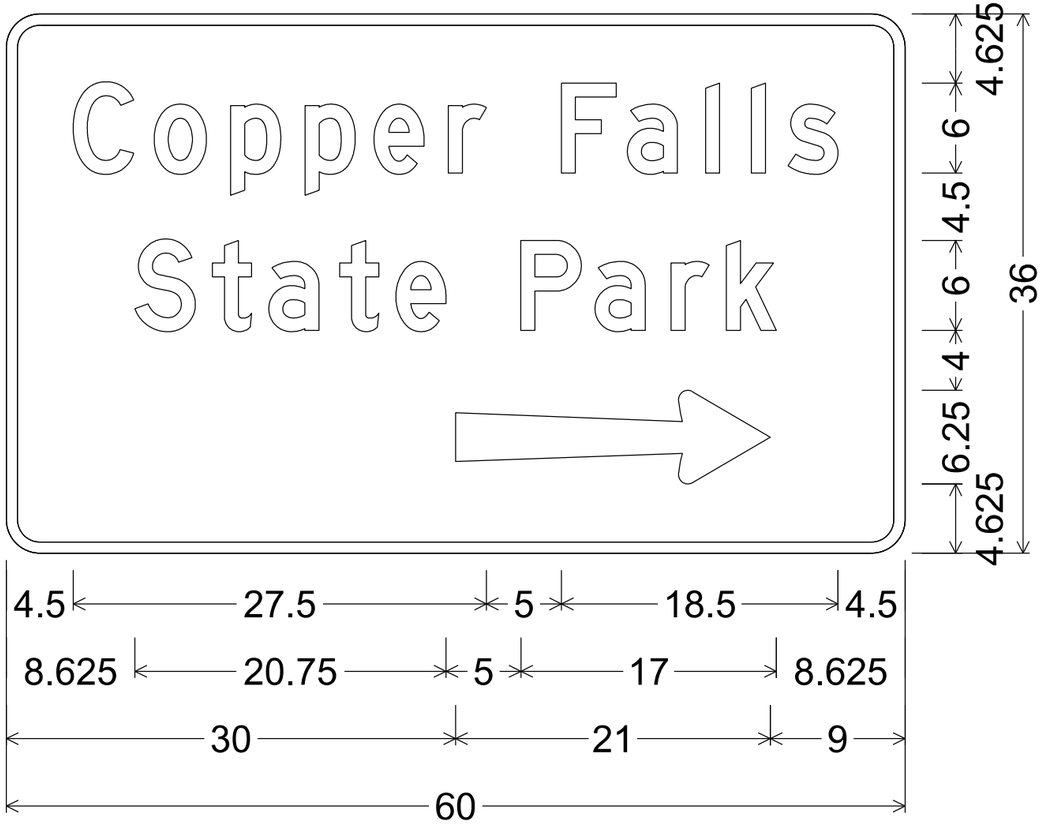
I3-1; 2.250" Radius, 0.750" Border
"Bad", E; "River", E;



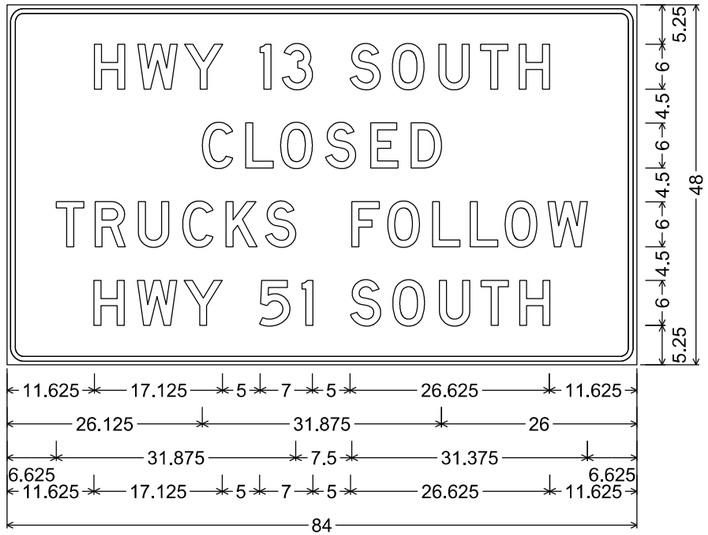
D1-3; 1.250" Radius, 0.625" Border

NOTES

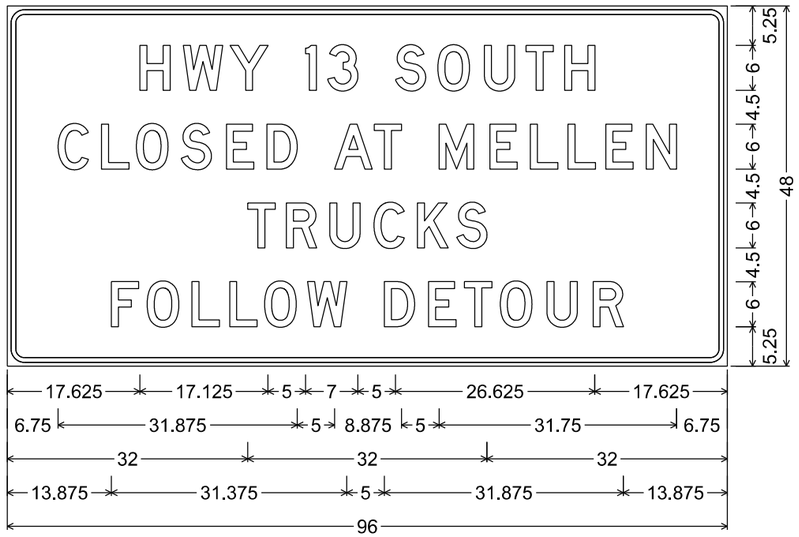
1. Sign is Type II- Type H Reflective
2. Color:
   Background - Brown
   Message - White
3. Message Series - D



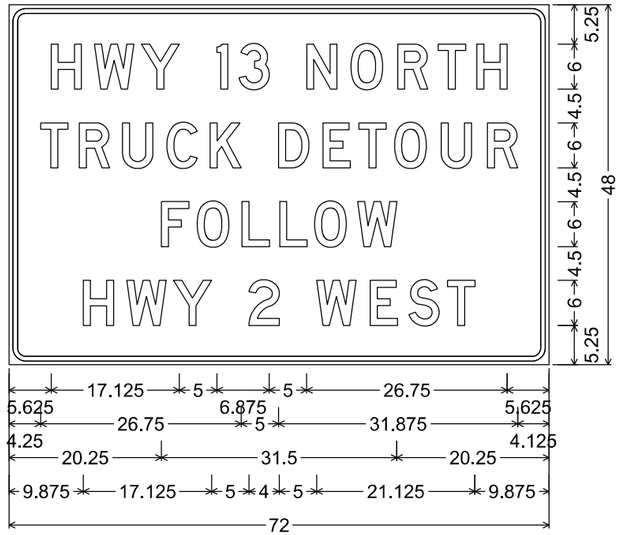
D7-53R; 2.250" Radius, 0.750" Border



2.250" Radius, 0.625" Border, 0.500" Indent



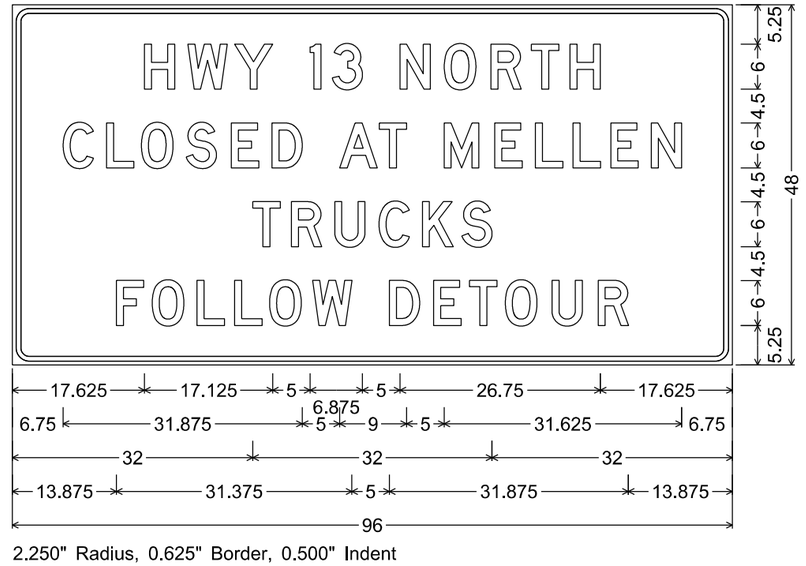
2.250" Radius, 0.625" Border, 0.500" Indent



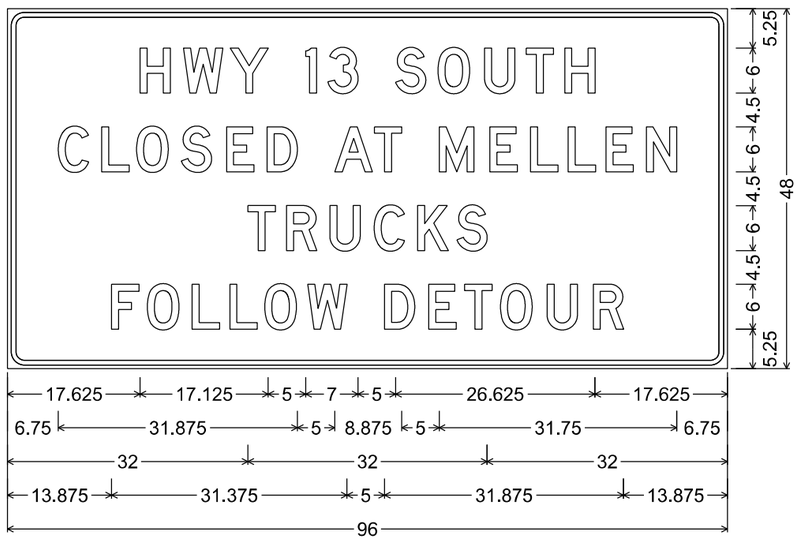
2.250" Radius, 0.625" Border, 0.500" Indent

NOTES

1. Fixed Message Signs Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D



2.250" Radius, 0.625" Border, 0.500" Indent



2.250" Radius, 0.625" Border, 0.500" Indent

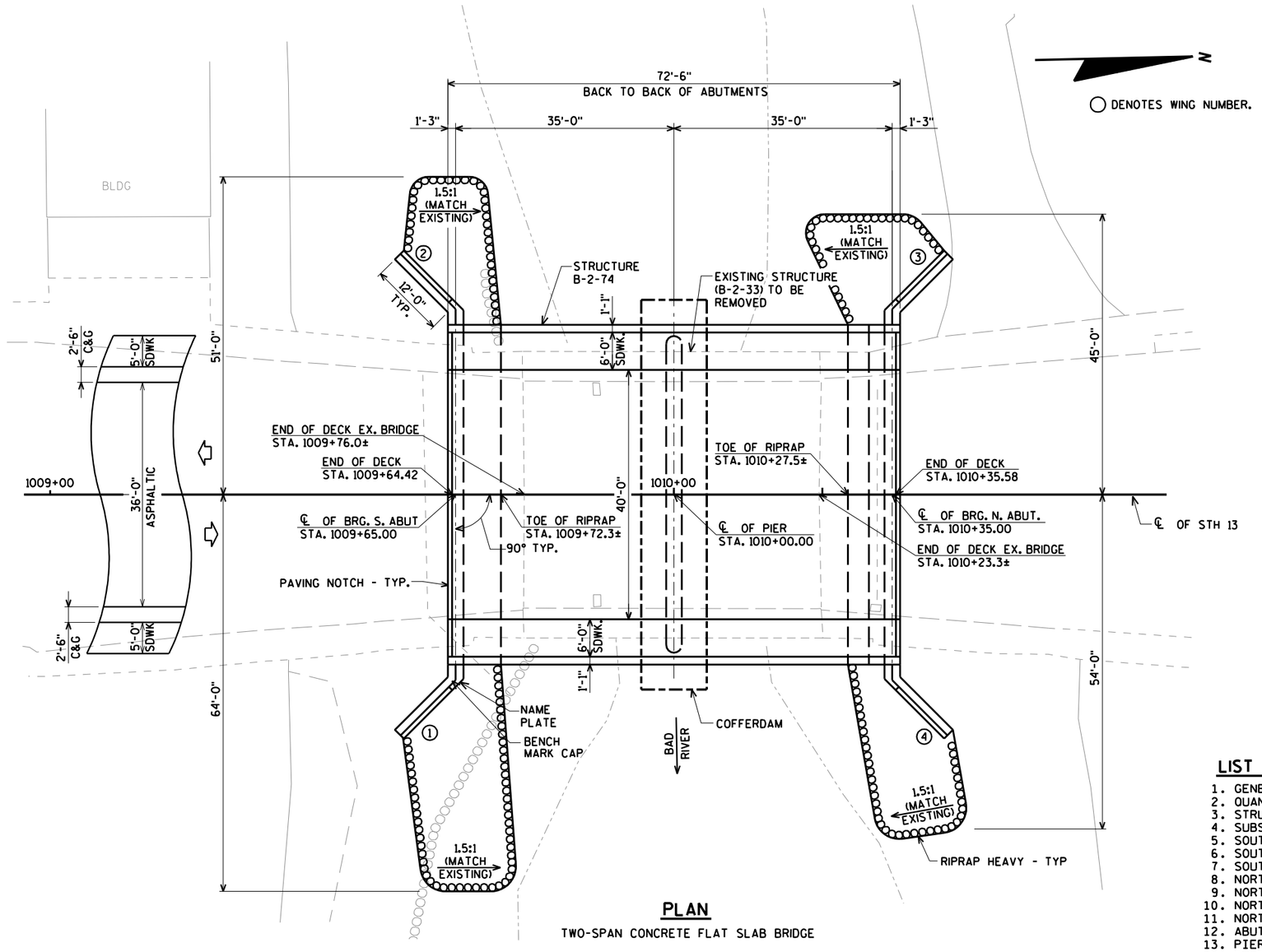
7

7

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	TEMPORARY SIGNING	SHEET NO: 260	E

STATE PROJECT NUMBER

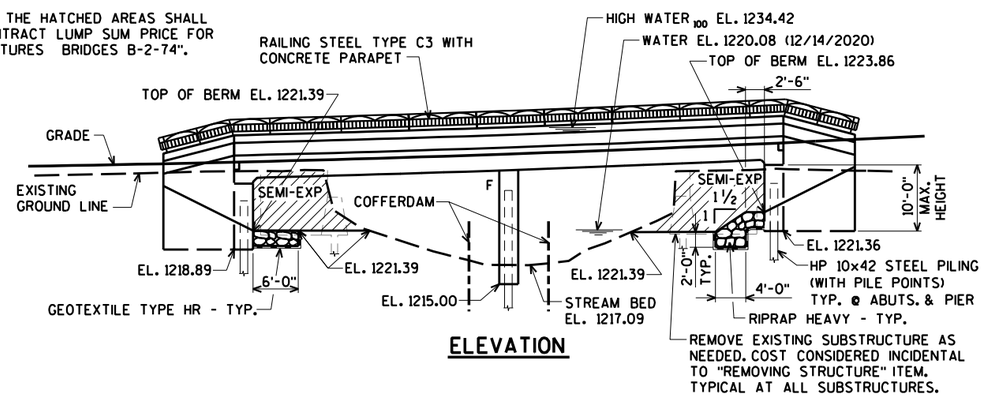
1610-00-76



PLAN

TWO-SPAN CONCRETE FLAT SLAB BRIDGE

COST OF EXCAVATION IN THE HATCHED AREAS SHALL BE INCLUDED IN THE CONTRACT LUMP SUM PRICE FOR "EXCAVATION FOR STRUCTURES BRIDGES B-2-74".



ELEVATION

REMOVE EXISTING SUBSTRUCTURE AS NEEDED. COST CONSIDERED INCIDENTAL TO "REMOVING STRUCTURE" ITEM. TYPICAL AT ALL SUBSTRUCTURES.

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: 1.20
OPERATING RATING FACTOR: 1.55
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 250 KIPS

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 #/S.F.

MATERIAL PROPERTIES:

CONCRETE MASONRY	SUPERSTRUCTURE	f'_c =	4,000 p.s.i.
	ALL OTHER	f'_c =	3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT (GRADE 60)		f_y =	60,000 p.s.i.

HYDRAULIC DATA:

100 YEAR FREQUENCY

Q_{100} = 6,450 c.f.s.
VEL. = 9.0 f.p.s.
HW_{100} = EL. 1234.42
WATERWAY AREA = 672 sq. ft.
DRAINAGE AREA = 99.2 sq. mi.
SCOUR CRITICAL CODE = 5
DATUM = NAVD88 (2012)

2 YEAR FREQUENCY

Q_2 = 1,350 c.f.s.
VEL. = 5.0 f.p.s.
HW_2 = EL. 1224.79

OVERTOPPING FREQUENCY

Q_{19} = 4,335 c.f.s.
HW_{19} = EL. 1230.31

FOUNDATION DATA:

ABUTMENTS TO BE SUPPORTED ON HP 10 x 42 STEEL PILING (WITH PILE POINTS) DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 130 TONS ‡ PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED LENGTH 35'-0".

PIER TO BE SUPPORTED ON HP 10 x 42 STEEL PILING (WITH PILE POINTS) DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 180 TONS ‡ PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED LENGTH 40'-0".

‡ THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

TRAFFIC DATA:

A.A.D.T. = 3,000 (2022)
A.A.D.T. = 3,600 (2042)
R.D.S. = 30 M.P.H.

LIST OF DRAWINGS

1. GENERAL PLAN
2. QUANTITIES AND NOTES
3. STRUCTURE DETAILS
4. SUBSURFACE EXPLORATION
5. SOUTH ABUTMENT
6. SOUTH ABUTMENT WING DETAILS
7. SOUTH ABUTMENT PILE LAYOUT & BILL OF BARS
8. NORTH ABUTMENT
9. NORTH ABUTMENT WING 3 DETAILS
10. NORTH ABUTMENT WING 4 DETAILS
11. NORTH ABUTMENT PILE LAYOUT & BILL OF BARS
12. ABUTMENT DETAILS
13. PIER
14. SUPERSTRUCTURE
15. SUPERSTRUCTURE PLAN
16. SUPERSTRUCTURE DETAILS
17. SUPERSTRUCTURE DETAILS
18. RAILING STEEL TYPE "C3" AND PARAPET DETAILS
19. RAILING STEEL TYPE "C3" DETAILS

FOR GENERAL NOTES AND TYPICAL SECTION SEE SHEET 2

DANIEL N. SYDOW E-38363 WI PROFESSIONAL ENGINEER WISCONSIN

07/26/2022

BRIDGE OFFICE CONTACT:
AARON BONK
(608)-261-0261

CONSULTANT CONTACT:
DAN SYDOW
(715)-834-3161

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY
AYRES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED SDR 09/14/22
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-2-74

STH 13 OVER BAD RIVER

COUNTY		~~TOWN~~/CITY/~~VILLAGE~~	
ASHLAND			MELLEN

DESIGN SPEC.
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
JCK	ZSS	ZSS	DNS

GENERAL PLAN

SHEET 1 OF 19
261

I.D.

DATE:

5/25/2022
PENTABLE:BReau_shd_util.tbl

DATE:
DATE:
DATE:

CHECKED BY:
BACK CHECKED BY:
CORRECTED BY:

8

8

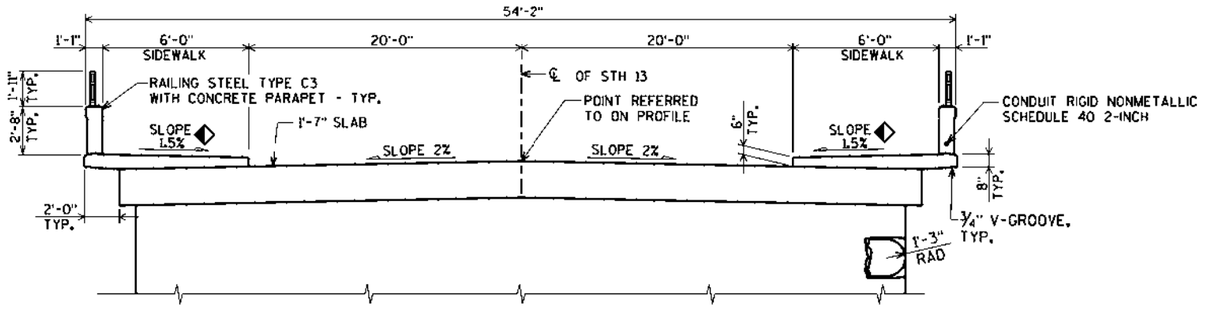
I:‡41‡410835 STH 13 Mellen‡Structures‡CADD‡Bridge‡Final‡410835 gp.dgn

STATE PROJECT NUMBER

1610-00-76

TOTAL ESTIMATED QUANTITIES

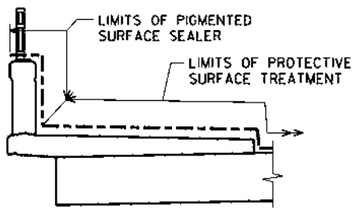
BID ITEM NUMBER	BID ITEMS	UNIT	S. ABUT.	PIER	N. ABUT.	SUPER.	TOTAL
203.0260	REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS B-2-33	EACH	-----	-----	-----	-----	1
206.1001	EXCAVATION FOR STRUCTURES BRIDGES B-2-74	EACH	-----	-----	-----	-----	1
206.5001	COFFERDAMS B-2-74	EACH	-----	-----	-----	-----	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	480	-----	480	-----	960
502.0100	CONCRETE MASONRY BRIDGES	CY	78.5	69.2	78.5	258.2	485
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-----	-----	-----	440	440
502.3210	PIGMENTED SURFACE SEALER	SY	6	-----	6	60	72
502.9000.S	UNDERWATER SUBSTRUCTURE INSPECTION B-2-74	EACH	-----	-----	-----	-----	1
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	5,420	3,070	5,420	-----	13,910
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,530	100	1,530	47,090	50,250
513.7016	RAILING STEEL TYPE C3	LF	30	-----	30	145	205
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	13	-----	13	-----	16
550.0500	PILE POINTS	EACH	10	9	10	-----	29
550.1100	PILING STEEL HP 10-INCH x 42 LB	LF	350	360	350	-----	1,060
606.0300	RIPRAP HEAVY	CY	100	-----	100	-----	200
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	120	-----	120	-----	240
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	70	-----	70	-----	140
645.0120	GEOTEXTILE TYPE HR	SY	190	-----	180	-----	370
652.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	LF	-----	-----	-----	75	75
999.1001.S	SEISMOGRAPH 1610-00-76	EACH	-----	-----	-----	-----	1
999.1501.S	CRACK AND DAMAGE SURVEY 1610-00-76	EACH	-----	-----	-----	-----	1
	NON-BID ITEMS						
	FILLER	SIZE	-----	-----	-----	-----	½" & ¾" & 1½"



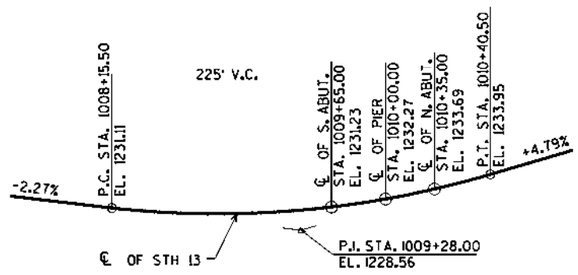
TYPICAL SECTION THRU BRIDGE

(LOOKING NORTH)

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



SURFACE TREATMENT DETAILS



PROFILE GRADE LINE

(STH 13)

BENCH MARK:
PK NAIL
STA. 1010+44.7, 47.5' LT.
EL. 1230.26

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE FIRST DIGIT OF A THREE DIGIT BAR NO. AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR NO. SIGNIFIES THE BAR SIZE.

JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.H.T.O. DESIGNATION M 153, TYPE I, II OR III OR A.A.S.H.T.O. DESIGNATION M 213.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH RIPRAP HEAVY AND GEOTEXTILE TYPE HR TO THE EXTENT SHOWN ON THE GENERAL PLAN SHEET AND IN THE ABUTMENT DETAILS.

SLAB FALSEWORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE UNLESS AN ALTERNATE METHOD IS APPROVED BY THE ENGINEER.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-2-74" SHALL BE THE EXISTING GROUNDLINE.

THE EXISTING STRUCTURE, B-2-33, TO BE REMOVED, IS A 47.83-FT. LONG SINGLE-SPAN CONCRETE FLAT SLAB BRIDGE ON CONCRETE SILL-TYPE ABUTMENTS WITH A 48-FT. OVERALL WIDTH.

THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE A" REQUIRED DIRECTLY BEHIND ABUTMENTS AND ABUTMENTS WINGS FOR 3 FEET. BACKFILL PLACED BEYOND PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES.

PROTECTIVE SURFACE TREATMENT AND PIGMENTED SURFACE SEALER ARE TO BE APPLIED AS SHOWN IN THE DETAIL ON THIS SHEET.

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS NOTED OTHERWISE.

EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL. GEOTEXTILE SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND 2'-0" ABOVE BOTTOM OF ABUTMENT.

EXISTING SUBSTRUCTURE LOCATIONS ARE BASED ON SURVEY. EXTENT OF BELOW GRADE SUBSTRUCTURES ARE SHOWN ON PLAN. REMOVE EXISTING SUBSTRUCTURES AS NEEDED TO BUILD NEW SUBSTRUCTURES. COST OF SUBSTRUCTURE REMOVAL IS CONSIDERED INCIDENTAL TO "REMOVING STRUCTURE" BID ITEM.

AT ABUTMENTS, CONCRETE POURED UNDER WATER WILL BE ALLOWED AND SHALL BE DONE IN ACCORDANCE WITH SECTION 502.3.5.3 OF THE STANDARD SPECIFICATIONS.

AT PIER, COFFERDAM REQUIRED. CONCRETE POURED UNDER WATER WILL BE ALLOWED AND SHALL BE DONE IN ACCORDANCE WITH SECTION 502.3.5.3 OF THE STANDARD SPECIFICATIONS. CONCRETE POURED UNDER WATER SHALL NOT EXCEED 10.0 FEET IN DEPTH, UNLESS APPROVED OTHERWISE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-2-74

DRAWN BY ZSS/CLP | PLANS CK'D. JCK

ORIGINAL PLANS PREPARED BY
AYRES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

QUANTITIES AND NOTES

SHEET 2 OF 19
262

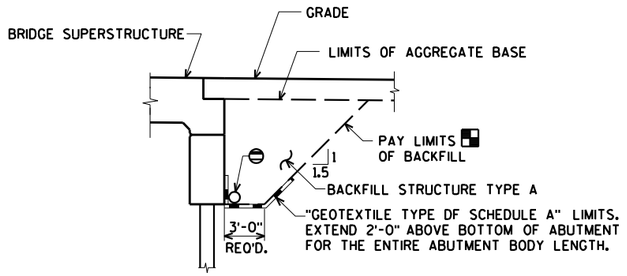
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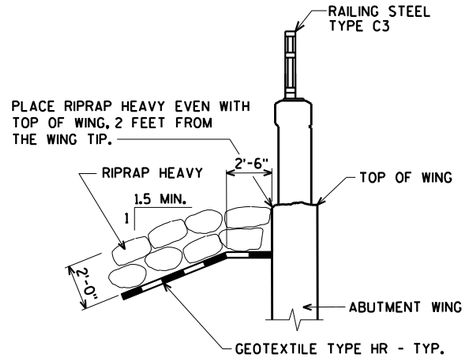
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BACKFILL STRUCTURE LIMITS THRU ABUTMENT

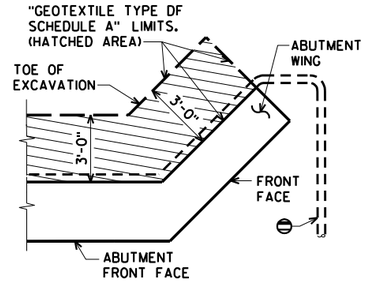
BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON SHEET 12.

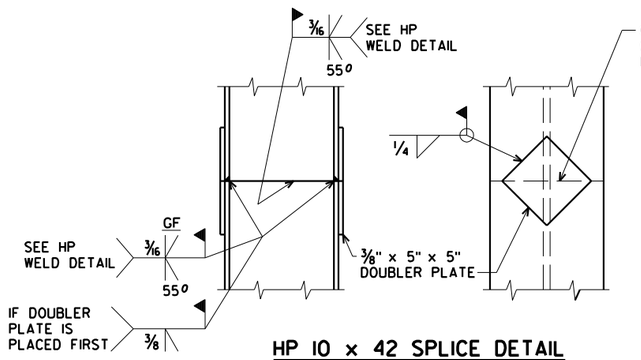


TYPICAL FILL SECTION AT WING TIPS

NOTE: PLACE RIPRAP HEAVY AS SHOWN ON GENERAL PLAN SHEET



BACKFILL STRUCTURE LIMITS ABUTMENT PLAN WITH WING



HP 10 x 42 SPLICE DETAIL

HP WELD DETAIL

FLANGE SHOWN, WEB SIMILAR

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-2-74

DRAWN BY ZSS/CLP | PLANS CK'D. JCK

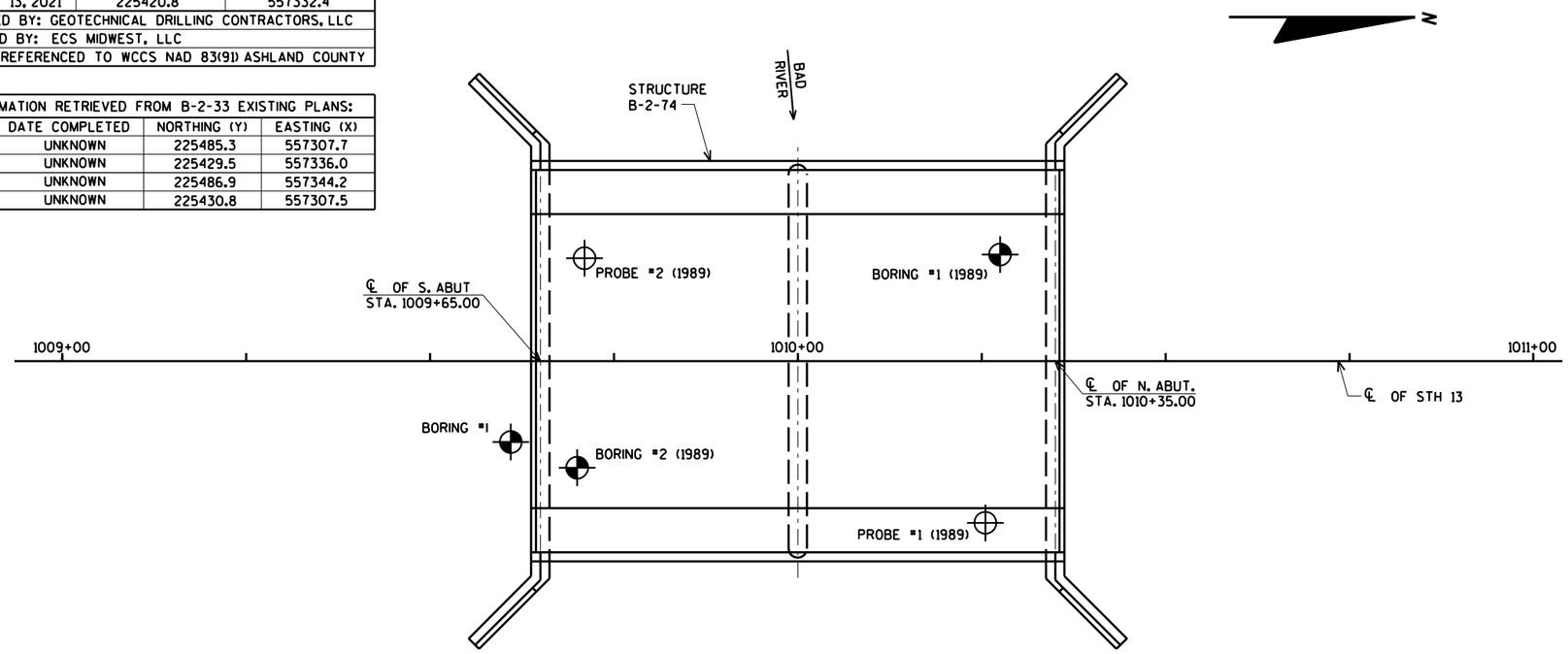
STRUCTURE DETAILS

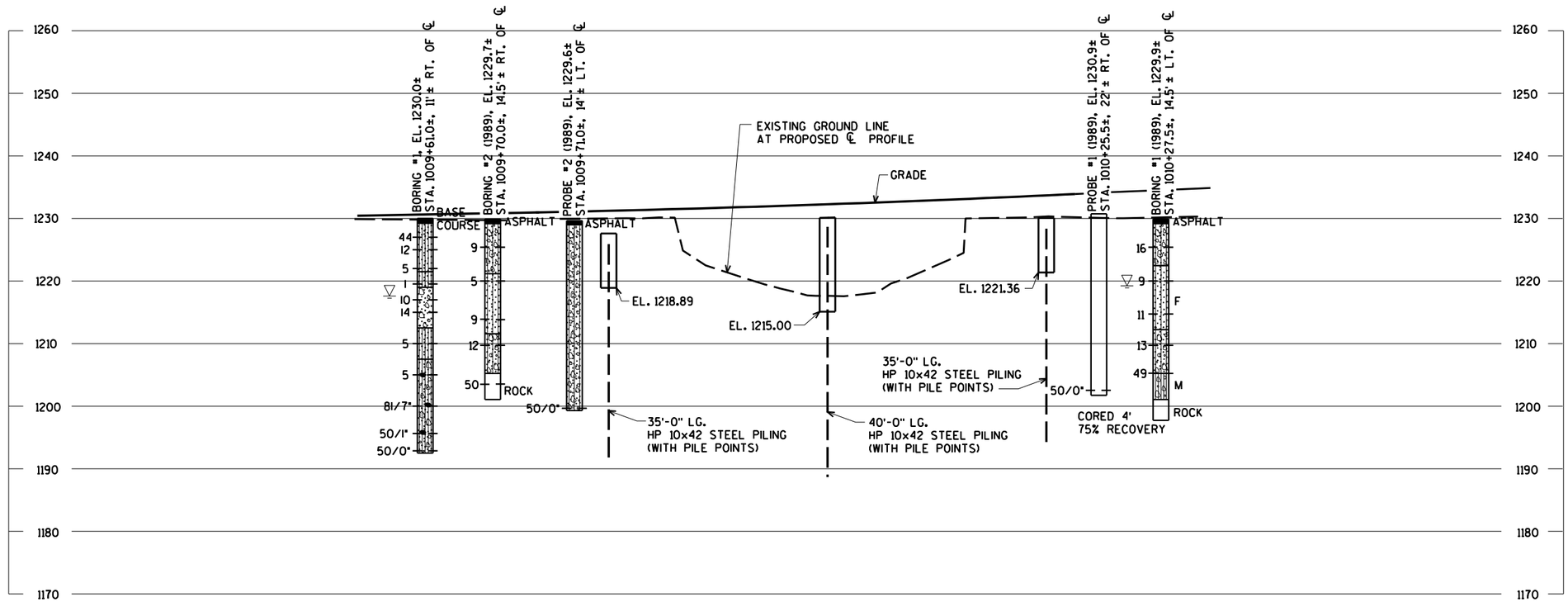
SHEET 3 OF 19
263

ORIGINAL PLANS PREPARED BY
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3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
1	JANUARY 13, 2021	225420.8	557332.4
BORINGS COMPLETED BY: GEOTECHNICAL DRILLING CONTRACTORS, LLC			
REPORT COMPLETED BY: ECS MIDWEST, LLC			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) ASHLAND COUNTY			

SOIL BORING INFORMATION RETRIEVED FROM B-2-33 EXISTING PLANS:			
BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
BORING 1 (1989)	UNKNOWN	225485.3	557307.7
BORING 2 (1989)	UNKNOWN	225429.5	557336.0
PROBE 1 (1989)	UNKNOWN	225486.9	557344.2
PROBE 2 (1989)	UNKNOWN	225430.8	557307.5





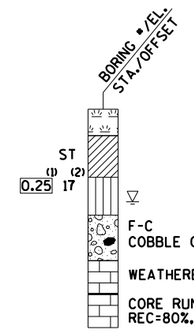
STATE PROJECT NUMBER

1610-00-76

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- ▽ AT TIME OF DRILLING
- ▼ END OF DRILLING
- ▼ AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-2-74

DRAWN BY ZSS | PLANS CK'D. JCK

SUBSURFACE EXPLORATION

SHEET 4 OF 19
264

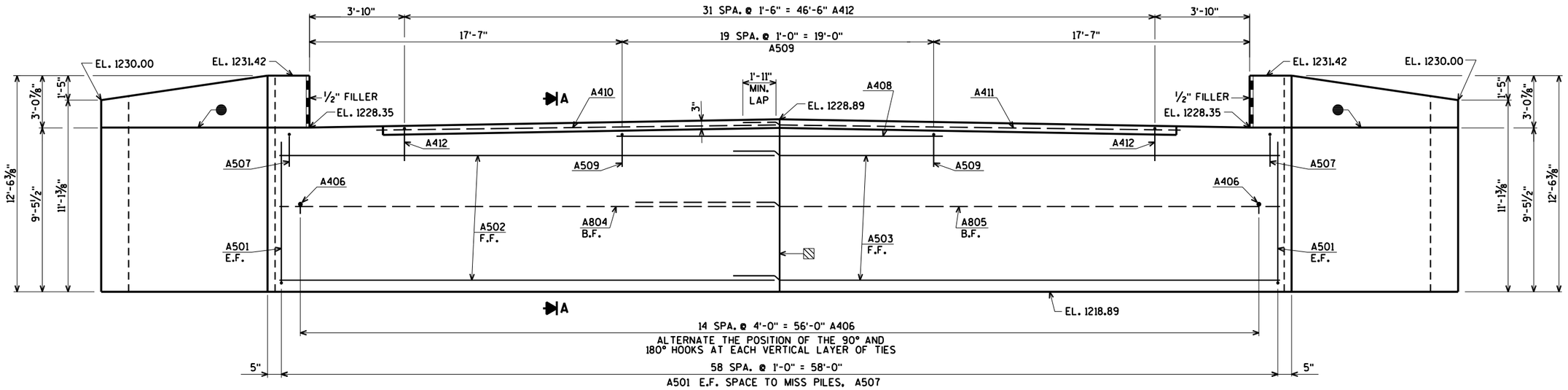
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NOTE: SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE.)

STATE PROJECT NUMBER
1610-00-76

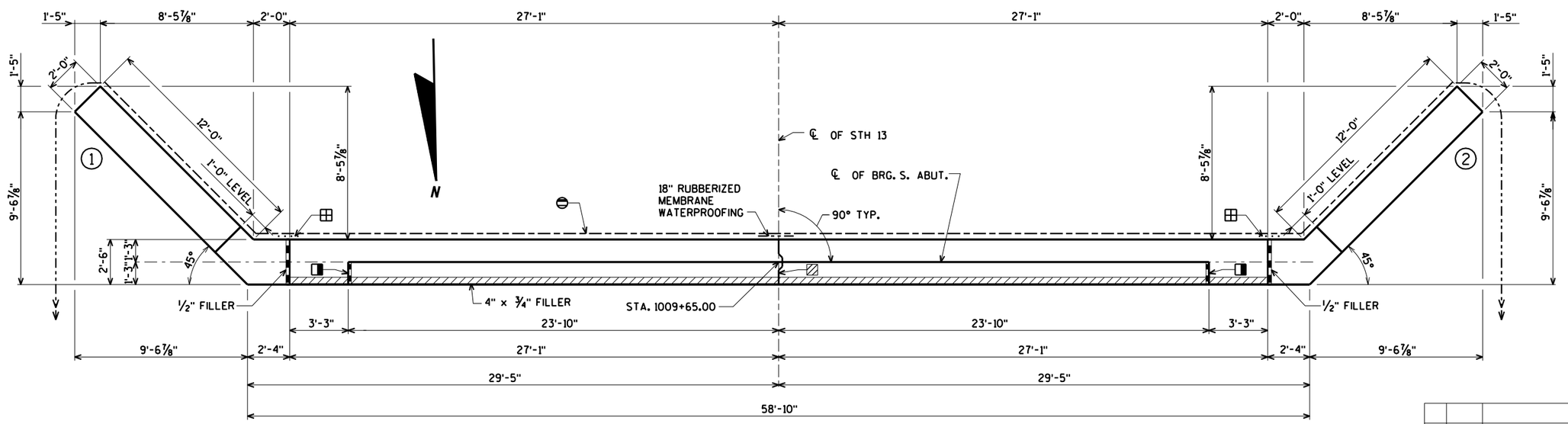
PARAPETS NOT SHOWN ON WINGWALLS FOR CLARITY.



ELEVATION

(LOOKING SOUTH)

FOR SECTION A SEE SHEET 7.



PLAN

PILING NOT SHOWN IN ELEVATION VIEW. SEE PILE LAYOUT ON SHEET 7.

FOR PILE SPLICE DETAIL SEE SHEET 3.

● OPT. KEYED CONST. JOINT - FORMED BY BEVELED 2" x 6" KEYWAY WITH MEMBRANE ON BACKFACE.

◨ ¾" CORK FILLER ON VERTICAL SEAT FACES THAT RUN PARALLEL WITH ROADWAY.

⊞ VERTICAL 18" RUBBERIZED MEMBRANE WATERPROOFING TO EXTEND FROM BRIDGE SEAT TO TOP OF WINGWALL.

⊖ PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON SHEET 12. RODENT SHIELD TO BE INCIDENTAL TO BID PRICE OF "PIPE UNDERDRAIN WRAPPED 6-INCH".

▧ VERT. CONST. JT. - KEYWAY FORMED BY A SURFACED BEVELED 2" x 8". BEVEL EXPOSED EDGES ¾". FOR ALTERNATE CONST. JT. DETAILS SEE SHEET 12. SEAL JOINT AT BACK FACE WITH 18" RUBBERIZED MEMBRANE WATERPROOFING.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-2-74

DRAWN BY CLP | PLANS CK'D. JCK

SOUTH ABUTMENT

SHEET 5 OF 19
265

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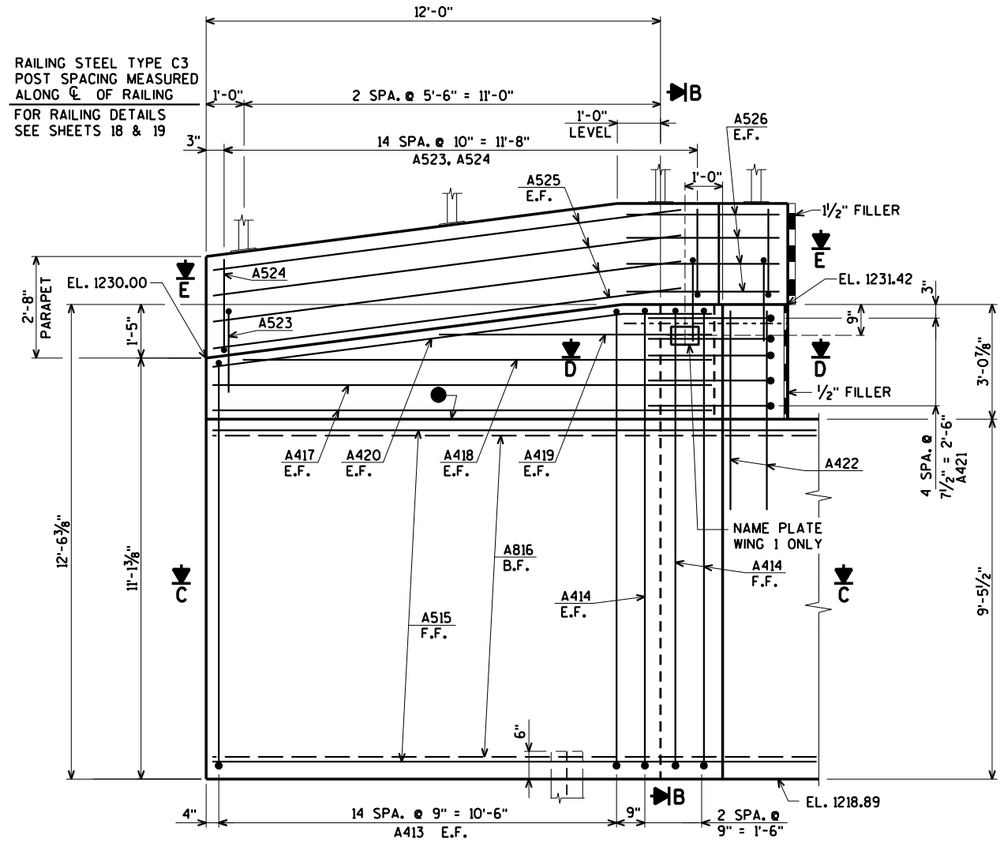
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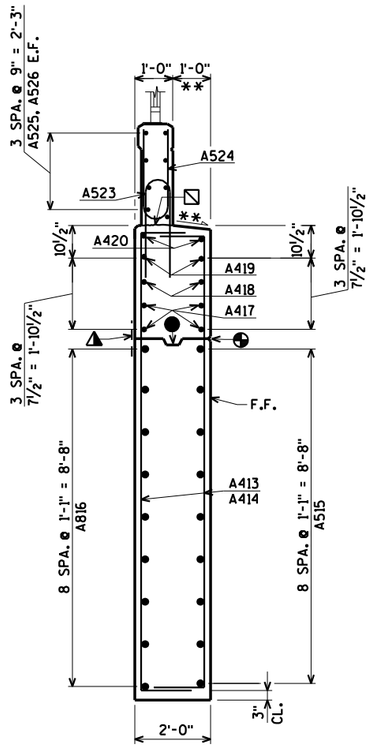
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STATE PROJECT NUMBER
1610-00-76

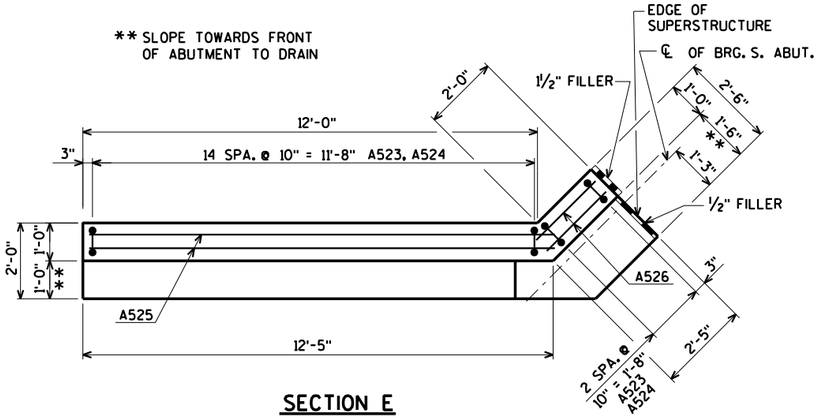


ELEVATION - WING 1

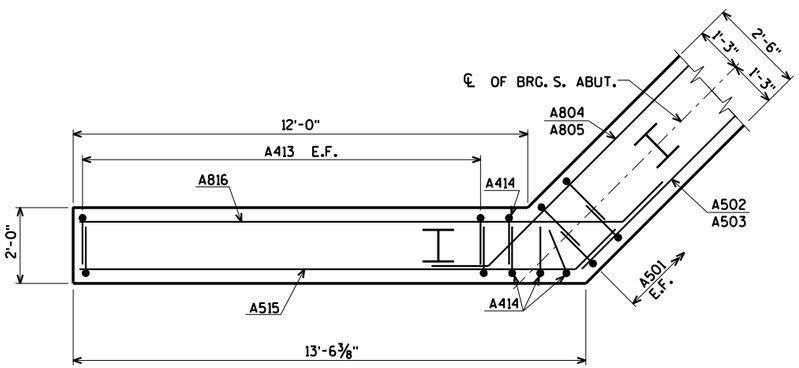
(WING 1 SHOWN, WING 2 SIMILAR)



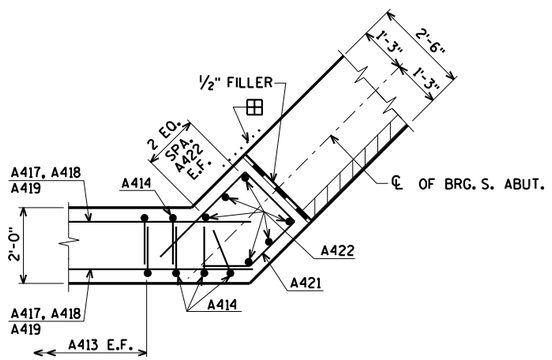
SECTION B



SECTION E



SECTION C



SECTION D

⊞ 18" RUBBERIZED MEMBRANE WATERPROOFING FROM BRIDGE SEAT TO TOP OF WING.

▨ HORIZ. CONST. JOINT - STRIKE OFF AS SHOWN AND LEAVE ROUGH.

◔ ¾" 'V' GROOVE ON F.F. OF WINGWALL.

● OPT. KEYED CONST. JOINT - FORMED BY BEVELED 2" x 6" KEYWAY WITH MEMBRANE ON BACKFACE.

⚠ 18" RUBBERIZED MEMBRANE WATERPROOFING IF CONSTRUCTION JOINT IS USED (COST INCIDENTAL TO "CONCRETE MASONRY BRIDGES").

FOR PILE SPLICE DETAIL SEE SHEET 3.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-2-74

DRAWN BY CLP | PLANS CK'D. JCK

SOUTH ABUTMENT WING DETAILS

SHEET 6 OF 19
266

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8

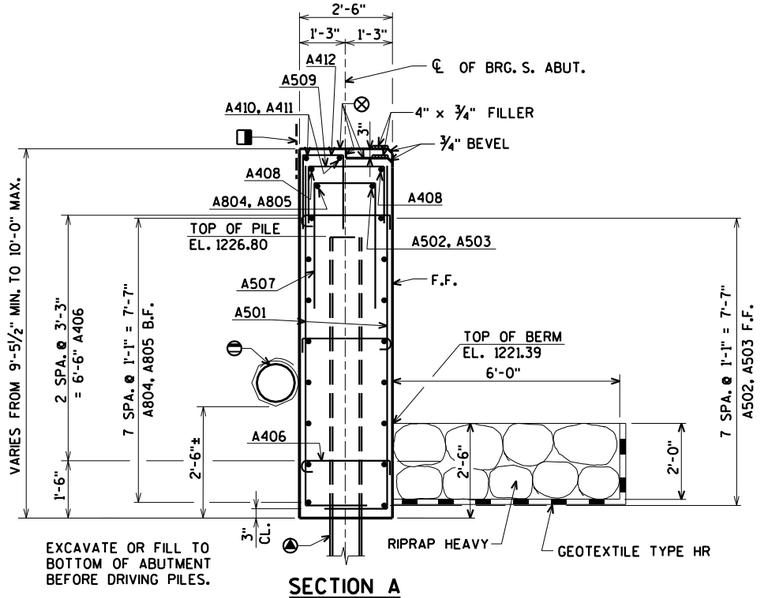
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STATE PROJECT NUMBER

1610-00-76



SECTION A

FOR LOCATION OF SECTION A SEE SHEET 5.

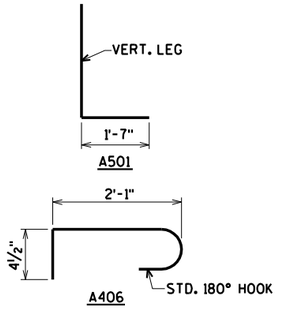
(A) ABUTMENT TO BE SUPPORTED ON HP 10 x 42 STEEL PILING (WITH PILE POINTS) DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 130 TONS PER PILE. ESTIMATED LENGTH 35'-0".

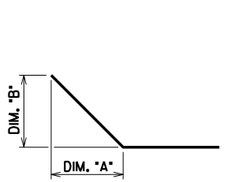
NOTE: DO NOT PLACE FILL ABOVE THREE FEET FROM BOTTOM OF ABUTMENT UNTIL SUPERSTRUCTURE IS IN PLACE.

(E) PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON SHEET 12. RODENT SHIELD TO BE INCIDENTAL TO BID PRICE OF "PIPE UNDERDRAIN WRAPPED 6-INCH".

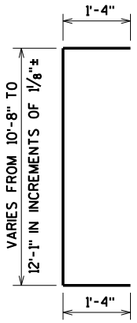
(B) 18" RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE OF ABUTMENT.

(C) STEEL TROWEL TOP SURFACE OF ABUTMENT. PLACE MULTIPLE LAYERS OF POLYETHELENE SHEETS OVER ENTIRE ABUTMENT TOP BEFORE PLACING FILLER AND SUPERSTRUCTURE. TOTAL THICKNESS OF SHEETS SHALL BE AT LEAST 0.03".

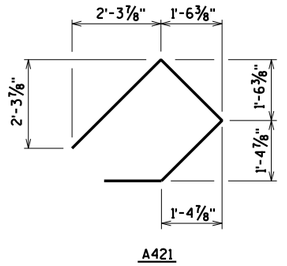




BAR NO.	DIM. "A"	DIM. "B"
A804	1'-0¾"	1'-0¾"
A805	1'-0¾"	1'-0¾"
A515	1'-0¾"	1'-0¾"
A816	1'-0¾"	1'-0¾"
A420	11'-0"	1'-4"



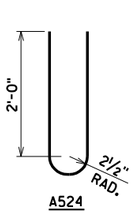
A413



A421



A523



A524

BILL OF BARS

BAR NO.	COATED BAR	NO. REQ'D.	LENGTH	BENT BAR	BUNDLED BAR SERIES	1.530" COATED 5.420" UNCOATED LOCATION
A501		118	10-6	X		BODY VERT. E.F.
A502		9	29-3			BODY HORIZ. F.F.
A503		9	32-0			BODY HORIZ. F.F.
A804		9	33-0	X		BODY HORIZ. B.F.
A805		9	38-2	X		BODY HORIZ. B.F.
A406		45	2-10	X		BODY TIES
A507		59	6-11	X		BODY VERT. TOP
A408		2	19-7			BODY HORIZ. TOP
A509		20	4-11	X		BODY VERT. TOP
A410		2	24-4			BODY HORIZ. NOTCH
A411		2	26-4			BODY HORIZ. NOTCH
A412		32	3-9	X		BODY VERT. NOTCH
A413	X	60	13-11	X		(C) WINGS 1 & 2 VERT. E.F.
A414	X	8	14-7	X		WINGS 1 & 2 VERT. E.F.
A515		18	14-7	X		WINGS 1 & 2 HORIZ. F.F.
A816		18	16-4	X		WINGS 1 & 2 HORIZ. B.F.
A417	X	8	13-3			WINGS 1 & 2 HORIZ. E.F.
A418	X	4	12-9			WINGS 1 & 2 HORIZ. E.F.
A419	X	4	7-11			WINGS 1 & 2 HORIZ. E.F.
A420	X	4	13-3	X		WINGS 1 & 2 DIAG. E.F.
A421	X	10	8-8	X		WINGS 1 & 2 HORIZ.
A422	X	12	4-6			WINGS 1 & 2 VERT.
A523	X	36	5-9	X		PARAPET VERT.
A524	X	36	4-9	X		PARAPET VERT.
A525	X	16	12-5			PARAPET HORIZ.
A526	X	16	2-5			PARAPET HORIZ.

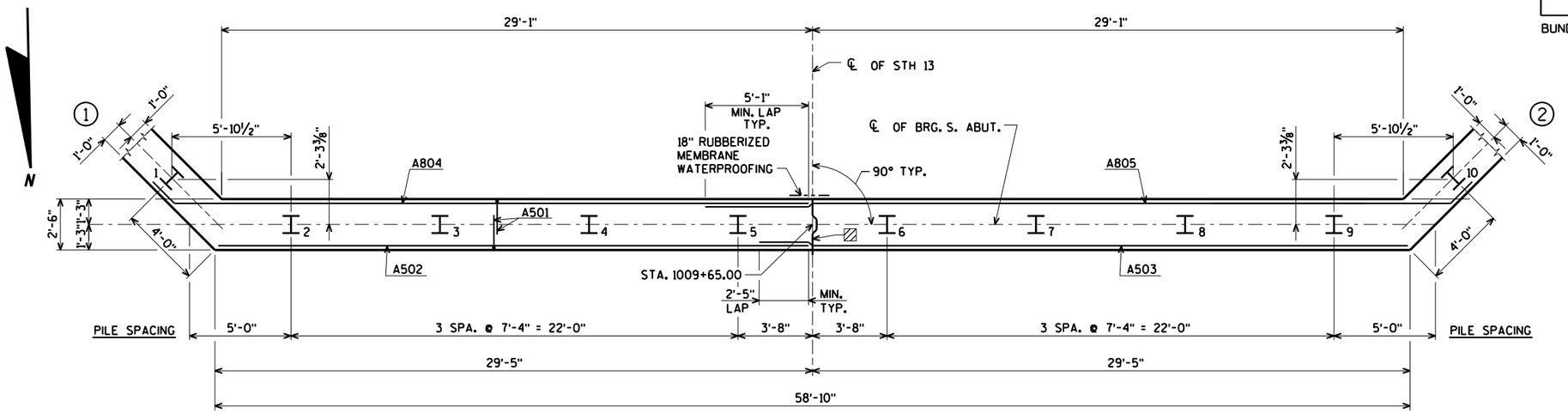
BENDING DIMENSIONS ARE OUT TO OUT OF BARS.

(C) LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BAR SERIES TABLE

BAR MARK	NO. REQ'D.	LENGTH
A413	4 SERIES OF 15	13'-2" TO 14'-7"

BUNDLE AND TAG EACH SERIES SEPARATELY.



PILE LAYOUT

(D) VERT. CONST. JT. - KEYWAY FORMED BY A SURFACED BEVELED 2" x 8". BEVEL EXPOSED EDGES ¾". FOR ALTERNATE CONST. JT. DETAILS SEE SHEET 12. SEAL JOINT AT BACK FACE WITH 18" RUBBERIZED MEMBRANE WATERPROOFING.

FOR PILE SPLICE DETAIL SEE SHEET 3.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-2-74

DRAWN BY CLP | PLANS CK'D. JCK

SOUTH ABUTMENT PILE LAYOUT & BILL OF BARS

SHEET 7 OF 19
267

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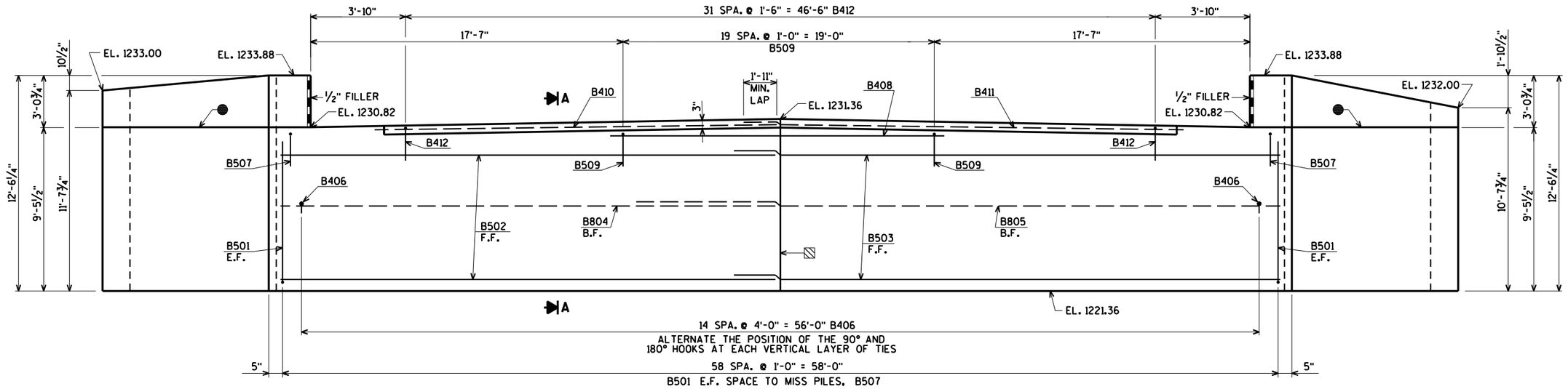
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STATE PROJECT NUMBER
1610-00-76

NOTE: SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE.)

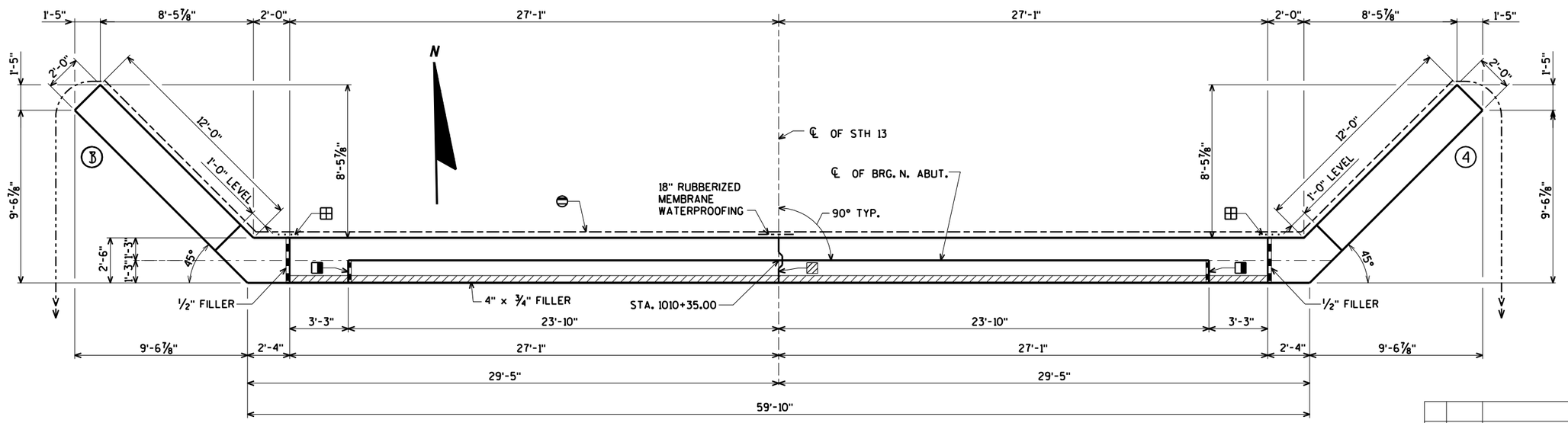
PARAPETS NOT SHOWN ON WINGWALLS FOR CLARITY.



ELEVATION

(LOOKING NORTH)

FOR SECTION A SEE SHEET 11.



PLAN

PILING NOT SHOWN IN ELEVATION VIEW. SEE PILE LAYOUT ON SHEET 11.

FOR PILE SPLICE DETAIL SEE SHEET 3.

● OPT. KEYED CONST. JOINT - FORMED BY BEVELED 2" x 6" KEYWAY WITH MEMBRANE ON BACKFACE.

◨ ¾" CORK FILLER ON VERTICAL SEAT FACES THAT RUN PARALLEL WITH ROADWAY.

⊞ VERTICAL 18" RUBBERIZED MEMBRANE WATERPROOFING TO EXTEND FROM BRIDGE SEAT TO TOP OF WINGWALL.

⊖ PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON SHEET 12. RODENT SHIELD TO BE INCIDENTAL TO BID PRICE OF "PIPE UNDERDRAIN WRAPPED 6-INCH".

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-2-74

DRAWN BY CLP | PLANS CK'D. JCK

NORTH ABUTMENT

SHEET 8 OF 19
268

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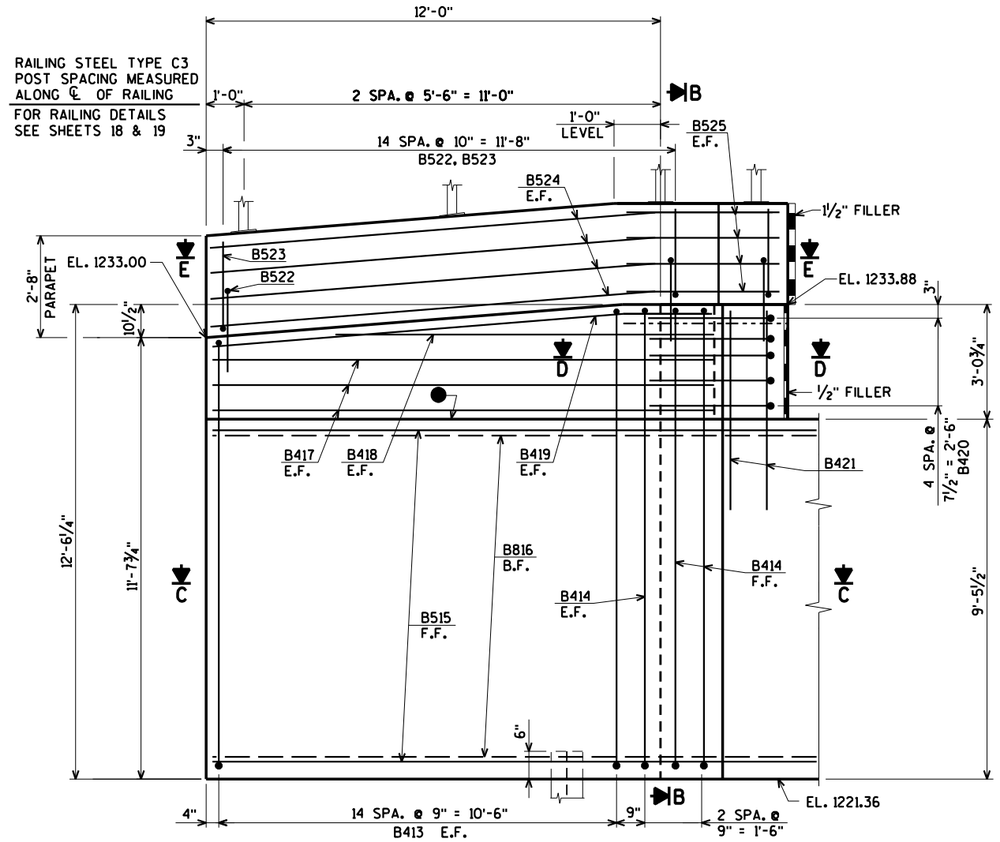
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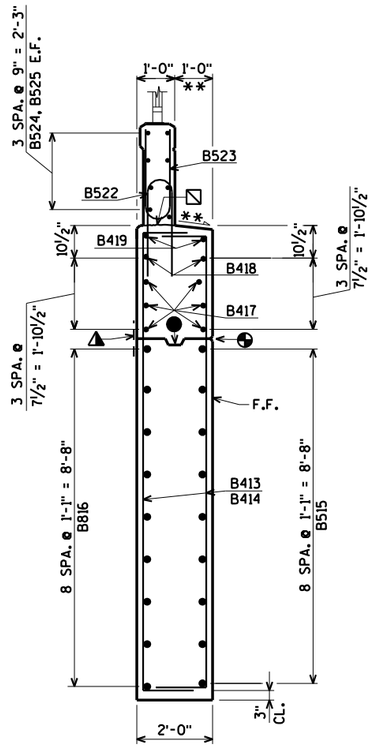
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STATE PROJECT NUMBER

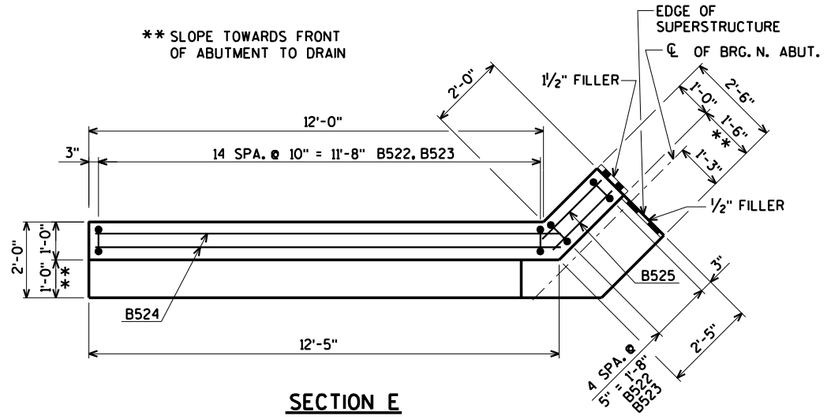
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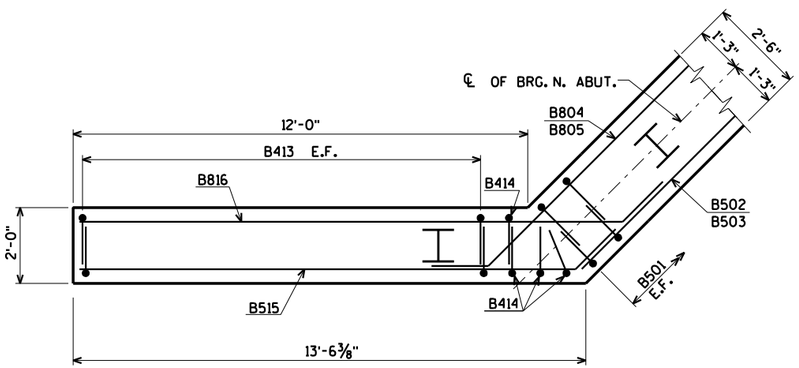
ELEVATION - WING 3



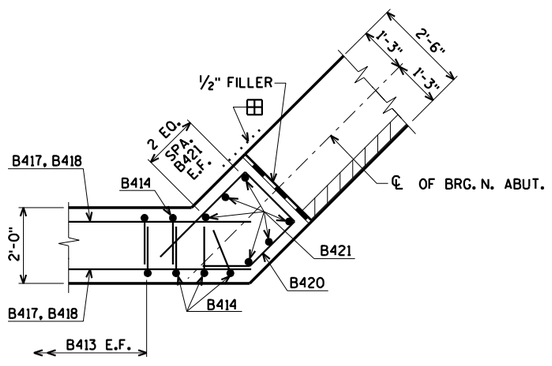
SECTION B



SECTION E



SECTION C



SECTION D

⊞ 18" RUBBERIZED MEMBRANE WATERPROOFING FROM BRIDGE SEAT TO TOP OF WING.

▨ HORIZ. CONST. JOINT - STRIKE OFF AS SHOWN AND LEAVE ROUGH.

◔ ¾" 'V' GROOVE ON F.F. OF WINGWALL.

● OPT. KEYED CONST. JOINT - FORMED BY BEVELED 2" x 6" KEYWAY WITH MEMBRANE ON BACKFACE.

⚠ 18" RUBBERIZED MEMBRANE WATERPROOFING IF CONSTRUCTION JOINT IS USED (COST INCIDENTAL TO "CONCRETE MASONRY BRIDGES").

FOR PILE SPLICE DETAIL SEE SHEET 3.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-2-74

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NORTH ABUTMENT WING 3 DETAILS

SHEET 9 OF 19
269

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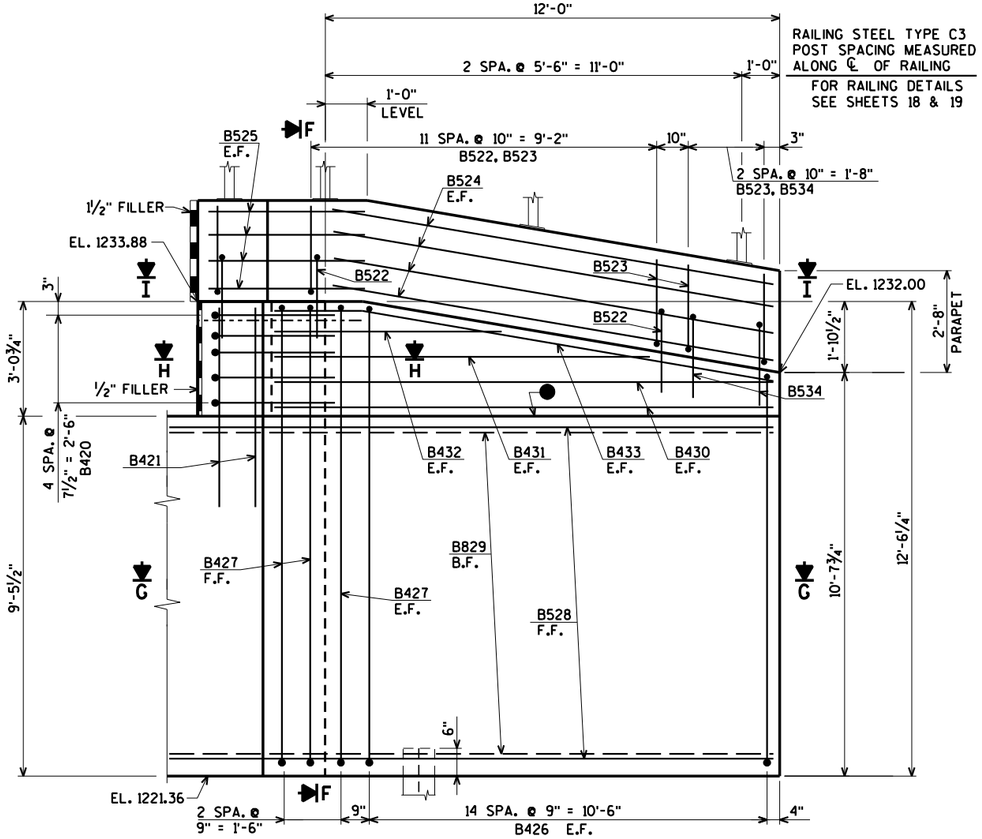
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5/20/2022
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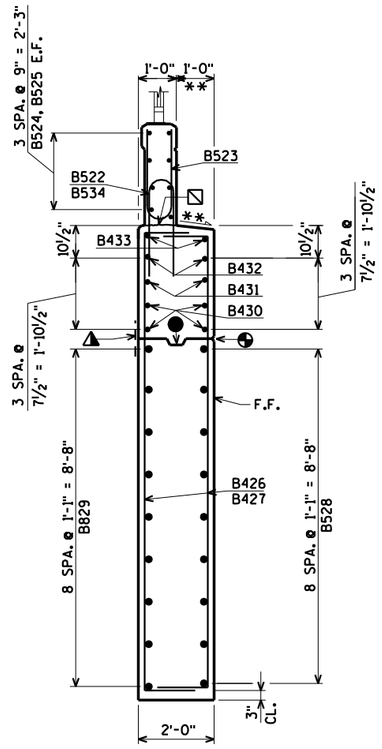
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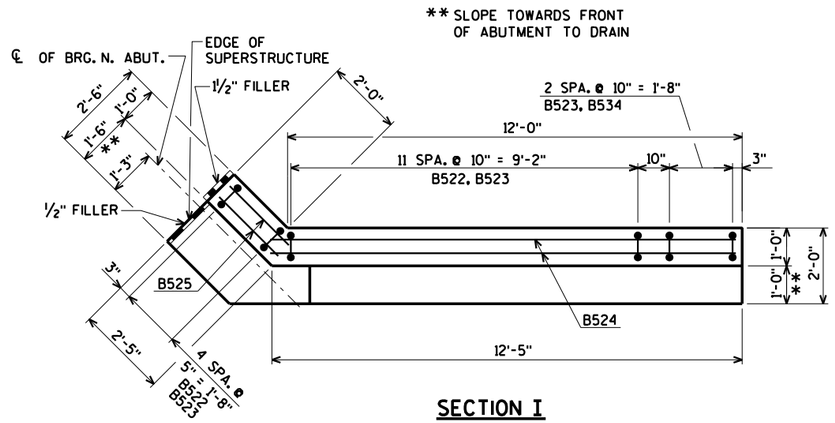
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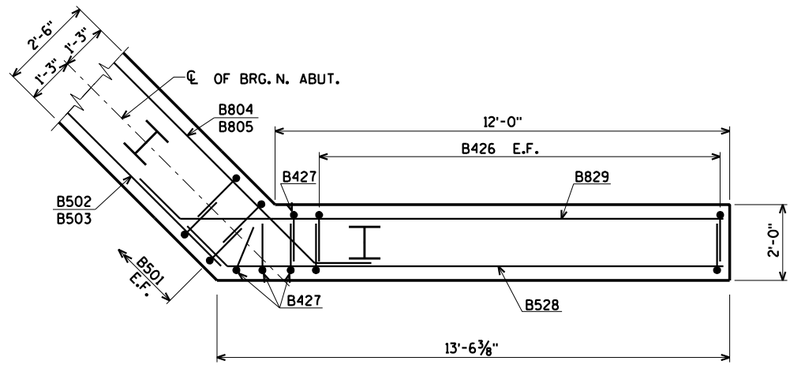
ELEVATION - WING 4



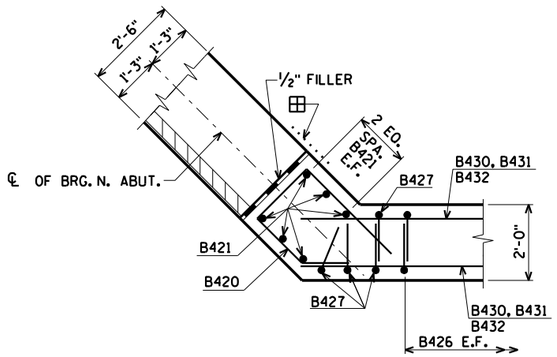
SECTION F



SECTION I



SECTION G



SECTION H

⊞ 18" RUBBERIZED MEMBRANE WATERPROOFING FROM BRIDGE SEAT TO TOP OF WING.

▨ HORIZ. CONST. JOINT - STRIKE OFF AS SHOWN AND LEAVE ROUGH.

◔ ¾" 'V' GROOVE ON F.F. OF WINGWALL.

● OPT. KEYED CONST. JOINT - FORMED BY BEVELED 2" x 6" KEYWAY WITH MEMBRANE ON BACKFACE.

⚠ 18" RUBBERIZED MEMBRANE WATERPROOFING IF CONSTRUCTION JOINT IS USED (COST INCIDENTAL TO "CONCRETE MASONRY BRIDGES").

FOR PILE SPLICE DETAIL SEE SHEET 3.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
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STRUCTURE B-2-74

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NORTH ABUTMENT WING 4 DETAILS

SHEET 10 OF 19
270

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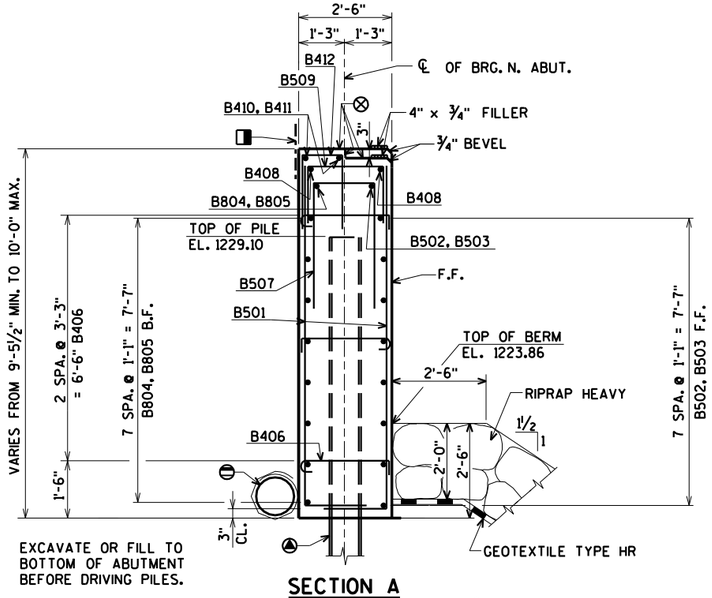
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1/31/2022
PENTABLE:BReau_shd_util.tbl

STATE PROJECT NUMBER

1610-00-76



SECTION A

NOTE: DO NOT PLACE FILL ABOVE THREE FEET FROM BOTTOM OF ABUTMENT UNTIL SUPERSTRUCTURE IS IN PLACE.

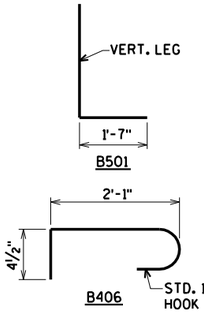
⊖ PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON SHEET 12. RODENT SHIELD TO BE INCIDENTAL TO BID PRICE OF "PIPE UNDERDRAIN WRAPPED 6-INCH".

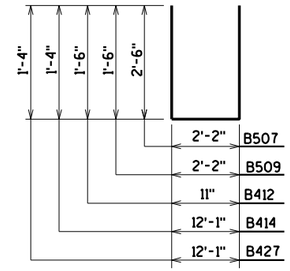
◨ 18" RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE OF ABUTMENT.

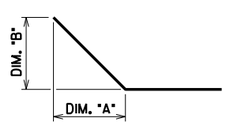
⊗ STEEL TROWEL TOP SURFACE OF ABUTMENT. PLACE MULTIPLE LAYERS OF POLYETHELENE SHEETS OVER ENTIRE ABUTMENT TOP BEFORE PLACING FILLER AND SUPERSTRUCTURE. TOTAL THICKNESS OF SHEETS SHALL BE AT LEAST 0.03".

◬ ABUTMENT TO BE SUPPORTED ON HP 10 x 42 STEEL PILING (WITH PILE POINTS) DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 130 TONS PER PILE. ESTIMATED LENGTH 35'-0".

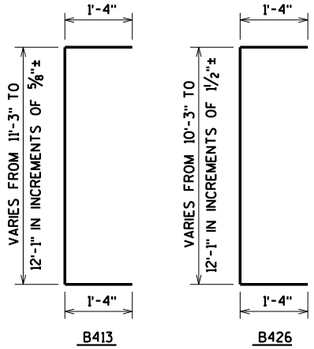
FOR LOCATION OF SECTION A SEE SHEET 8.

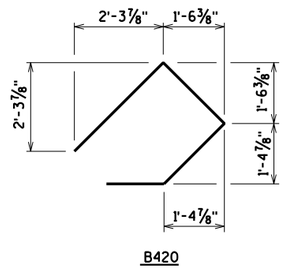


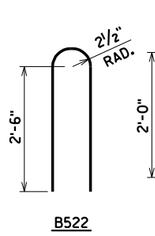


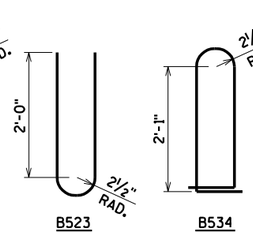


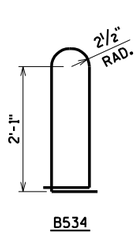
BAR NO.	DIM. "A"	DIM. "B"
B804	1'-0¾"	1'-0¾"
B805	1'-0¾"	1'-0¾"
B515	1'-0¾"	1'-0¾"
B816	1'-0¾"	1'-0¾"
B419	11'-0"	9"
B528	1'-0¾"	1'-0¾"
B829	1'-0¾"	1'-0¾"
B433	11'-0"	1'-9"











BILL OF BARS

BAR NO.	COATED BAR	NO. REQ'D.	LENGTH	BENT BAR	BUNDLED BAR SERIES	1.530# COATED 5.420# UNCOATED LOCATION
B501		118	10-6	X		BODY VERT. E.F.
B502		9	29-3			BODY HORIZ. F.F.
B503		9	32-0			BODY HORIZ. F.F.
B804		9	33-0	X		BODY HORIZ. B.F.
B805		9	38-2	X		BODY HORIZ. B.F.
B406		45	2-10	X		BODY TIES
B507		59	6-11	X		BODY VERT. TOP
B408		2	19-7			BODY HORIZ. TOP
B509		20	4-11	X		BODY VERT. TOP
B410		2	24-4			BODY HORIZ. NOTCH
B411		2	26-4			BODY HORIZ. NOTCH
B412		32	3-9	X		BODY VERT. NOTCH
B413	X	30	14-2	X	⊗	WING 3 VERT. E.F.
B414	X	4	14-7	X		WING 3 VERT. E.F.
B515		9	14-7	X		WING 3 HORIZ. F.F.
B816		9	16-4	X		WING 3 HORIZ. B.F.
B417	X	6	13-3			WING 3 HORIZ. E.F.
B418	X	2	11-3			WING 3 HORIZ. E.F.
B419	X	2	13-3	X		WING 3 DIAG. E.F.
B420	X	10	8-8	X		WINGS 3 & 4 HORIZ.
B421	X	12	4-6			WINGS 3 & 4 VERT.
B522	X	33	5-9	X		PARAPET VERT.
B523	X	36	4-9	X		PARAPET VERT.
B524	X	16	12-5			PARAPET HORIZ.
B525	X	16	2-5			PARAPET HORIZ.
B426	X	30	13-8	X	⊗	WING 4 VERT. E.F.
B427	X	4	14-7	X		WING 4 VERT. E.F.
B528		9	14-7	X		WING 4 HORIZ. F.F.
B829		9	16-4	X		WING 4 HORIZ. B.F.
B430	X	4	13-3			WING 4 HORIZ. E.F.
B431	X	2	10-1			WING 4 HORIZ. E.F.
B432	X	2	6-5			WING 4 HORIZ. E.F.
B433	X	2	13-4	X		WING 4 DIAG. E.F.
B534	X	3	5-7	X		WING 4 PARAPET VERT.

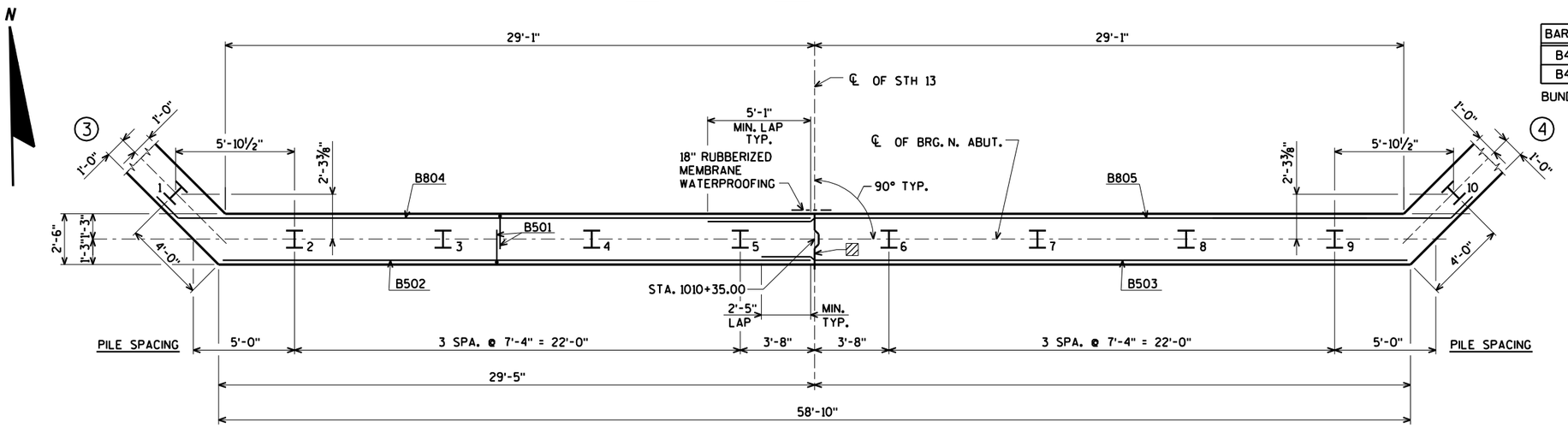
BENDING DIMENSIONS ARE OUT TO OUT OF BARS.

⊗ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BAR SERIES TABLE

BAR MARK	NO. REQ'D.	LENGTH
B413	2 SERIES OF 15	13'-9" TO 14'-7"
B426	2 SERIES OF 15	12'-9" TO 14'-7"

BUNDLE AND TAG EACH SERIES SEPARATELY.



PILE LAYOUT

▨ VERT. CONST. JT. - KEYWAY FORMED BY A SURFACED BEVELED 2" x 8". BEVEL EXPOSED EDGES ¾". FOR ALTERNATE CONST. JT. DETAILS SEE SHEET 12. SEAL JOINT AT BACK FACE WITH 18" RUBBERIZED MEMBRANE WATERPROOFING.

FOR PILE SPLICE DETAIL SEE SHEET 3.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-2-74

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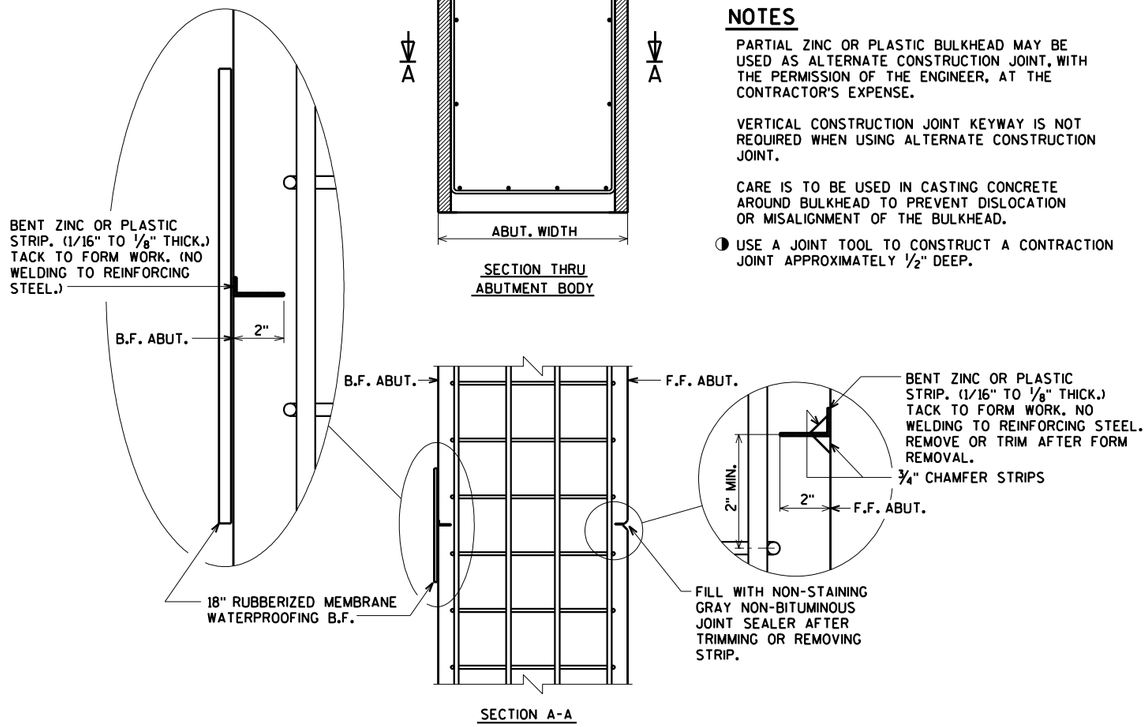
NORTH ABUTMENT PILE LAYOUT & BILL OF BARS

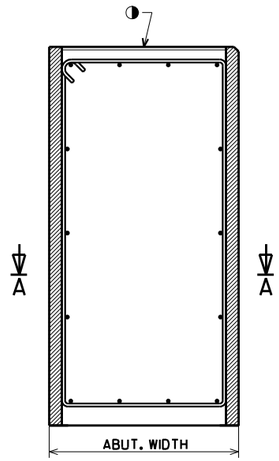
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NOTES

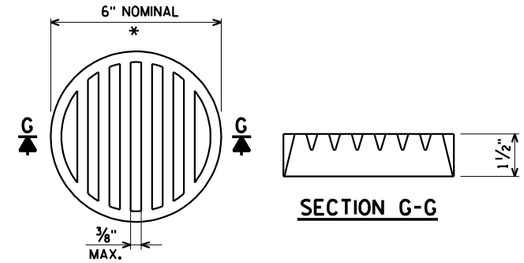
PARTIAL ZINC OR PLASTIC BULKHEAD MAY BE USED AS ALTERNATE CONSTRUCTION JOINT, WITH THE PERMISSION OF THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.

VERTICAL CONSTRUCTION JOINT KEYWAY IS NOT REQUIRED WHEN USING ALTERNATE CONSTRUCTION JOINT.

CARE IS TO BE USED IN CASTING CONCRETE AROUND BULKHEAD TO PREVENT DISLOCATION OR MISALIGNMENT OF THE BULKHEAD.

◑ USE A JOINT TOOL TO CONSTRUCT A CONTRACTION JOINT APPROXIMATELY 1/2" DEEP.

ALTERNATE CONSTRUCTION JOINT AT ABUTMENT



* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 x 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

RODENT SHIELD DETAIL

NO.	DATE	REVISION	BY

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STRUCTURE B-2-74

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ABUTMENT DETAILS

SHEET 12 OF 19
272

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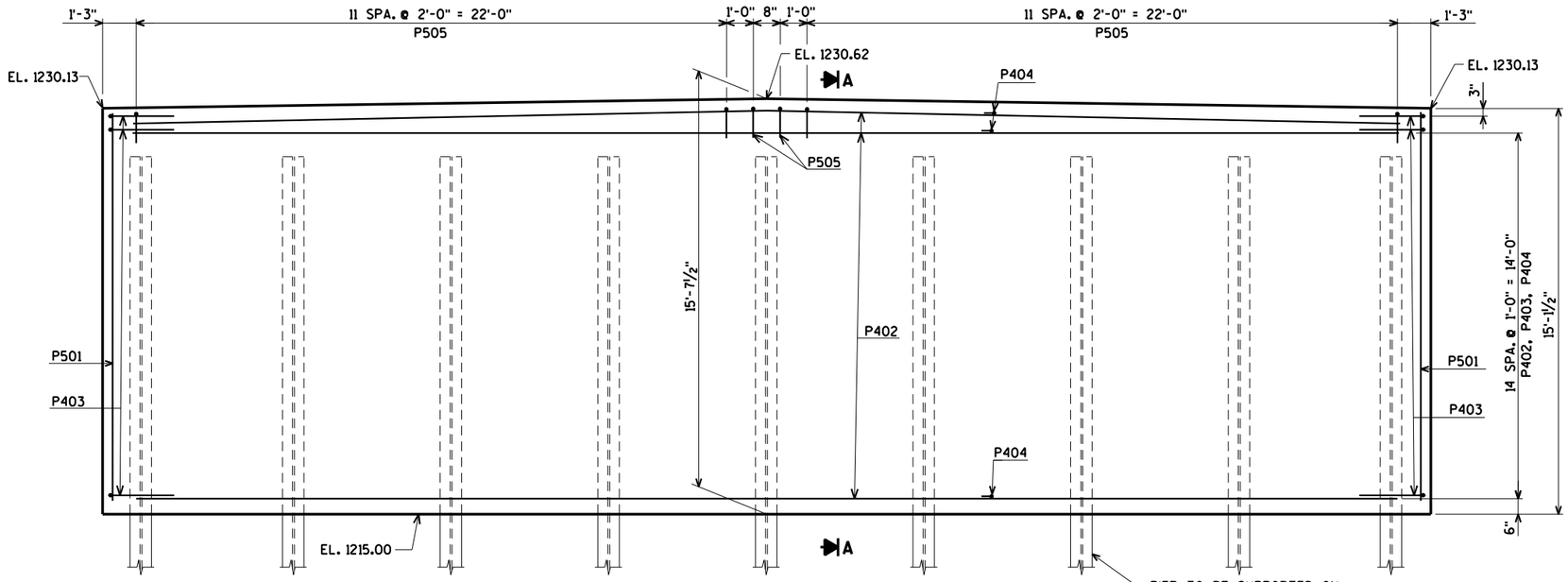
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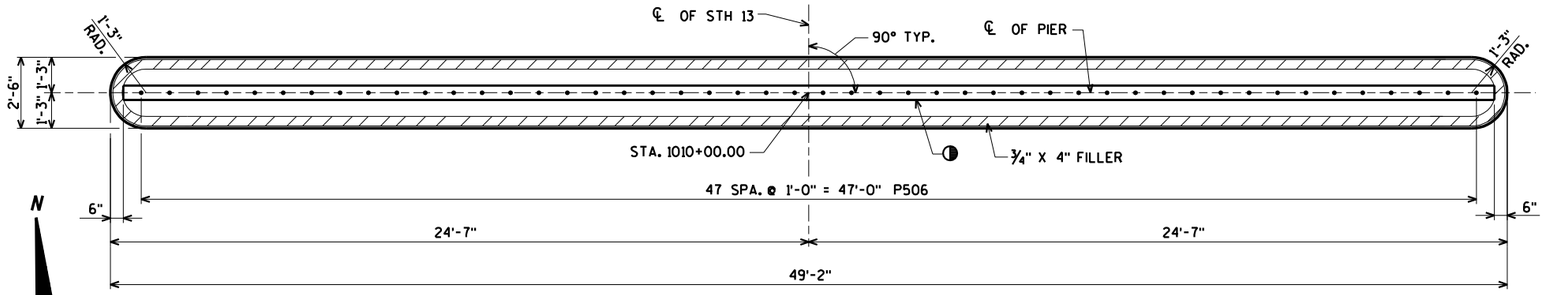
ELEVATION
(LOOKING NORTH

PIER TO BE SUPPORTED ON HP 10 x 42 STEEL PILING (WITH PILE POINTS) DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE. ESTIMATED LENGTH 40'-0".

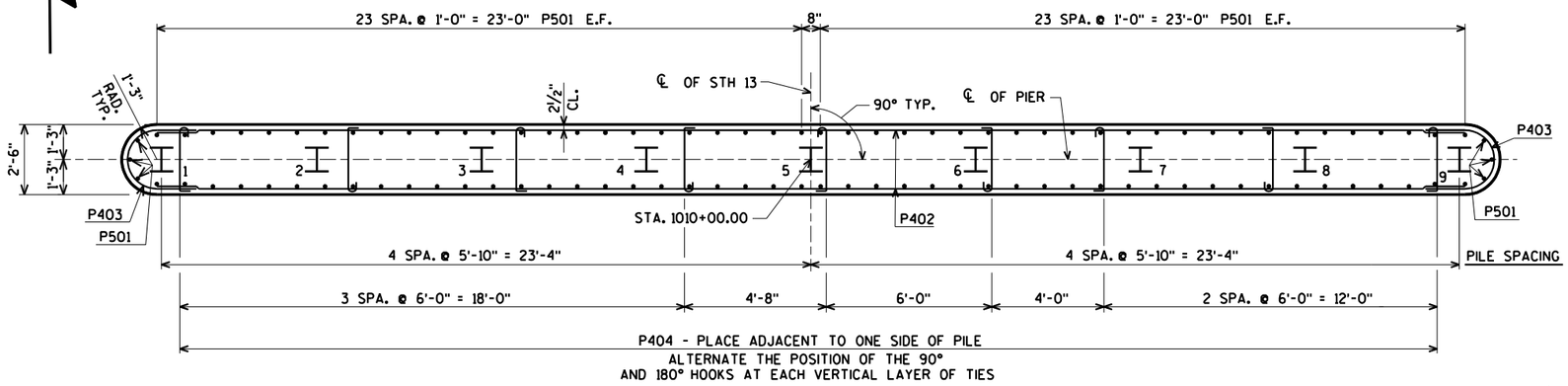
BILL OF BARS

BAR NO.	COATED BAR	NO. REQ'D.	LENGTH	BENT BAR	BUNDLED BAR SERIES	100# COATED 3,070# UNCOATED LOCATION
P501		102	14-5			COLUMN VERT.
P402		32	46-8			COLUMN HORIZ.
P403		32	6-1	X		COLUMN HORIZ. @ ENDS
P404		144	2-11	X		COLUMN TIES
P505		26	4-9	X		COLUMN TOP
P506	X	48	2-0			COLUMN DOWELS

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.

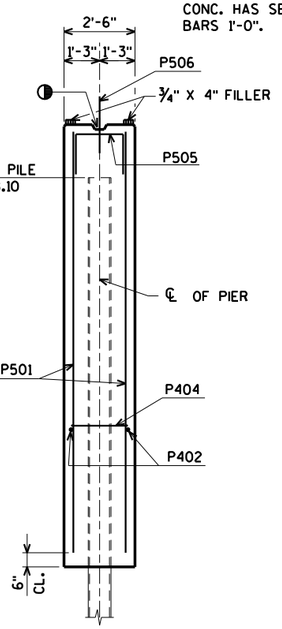


PLAN

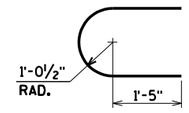


PILE LAYOUT

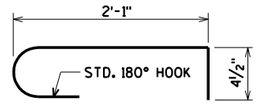
P506 BARS MAY BE PLACED AFTER PIER IS POURED BUT BEFORE CONC. HAS SET. EMBED BARS 1'-0".



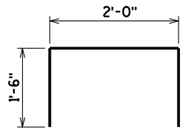
SECTION A



P403



P404



P505

◑ KEYED CONST. JOINT - FORMED BY BEVELED 2" x 6".

FOR PILE SPLICE DETAIL SEE SHEET 3.

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STRUCTURE B-2-74

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PIER

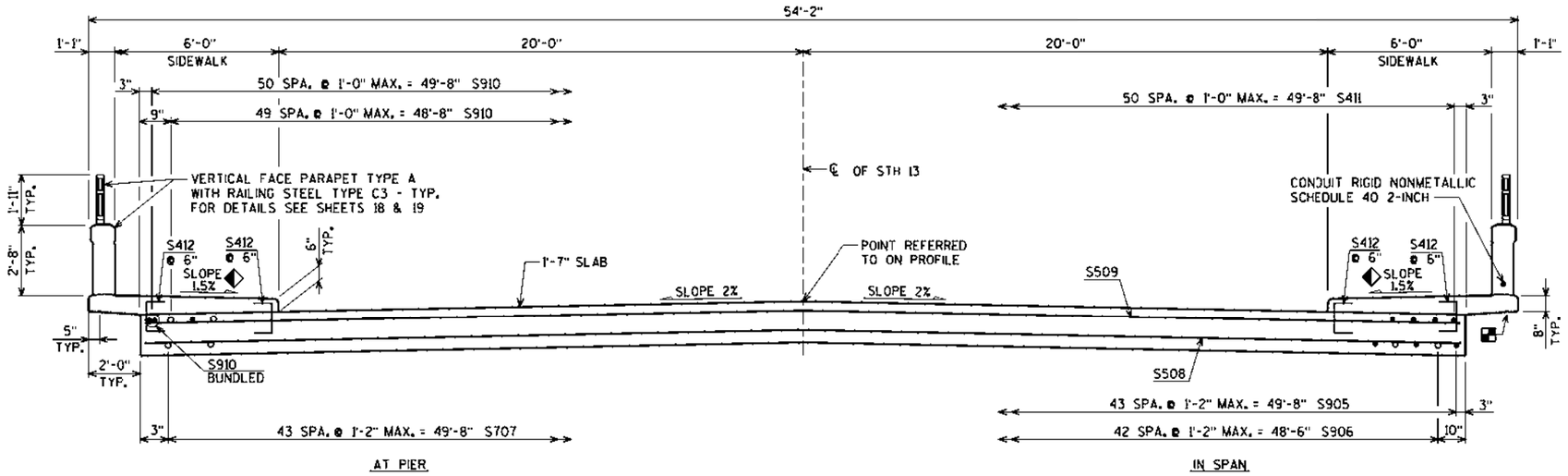
SHEET 13 OF 19
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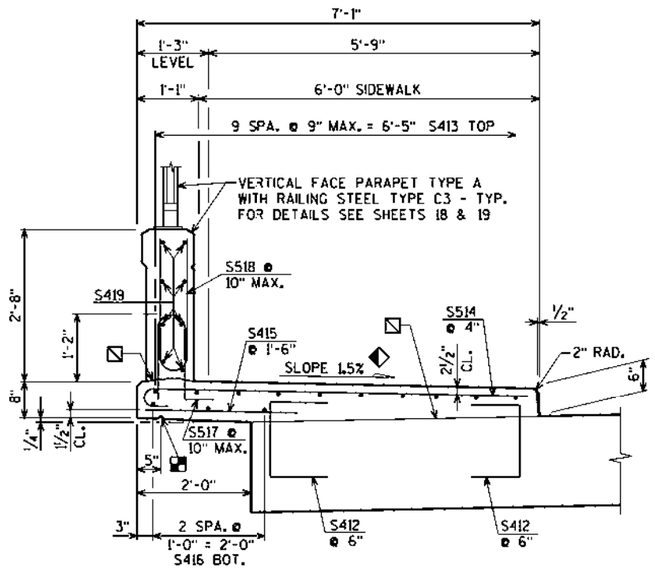
TYPICAL SECTION THRU BRIDGE

(LOOKING NORTH)

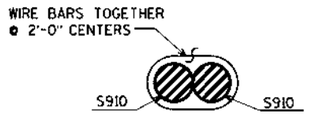
BILL OF BARS

BAR NO.	COATED BAR	NO. REQ'D.	LENGTH	BENT BAR	BUNDLED BAR SERIES	47,090# COATED LOCATION
S401	X	96	3-3	X		SLAB @ ABUT. NOTCH
S402	X	8	24-5			SLAB @ ABUT. NOTCH
S503	X	102	6-2	X		SLAB @ ABUT.
S504	X	102	3-4	X		SLAB @ ABUT.
S905	X	88	33-0			SLAB LONG. BOT.
S906	X	86	22-10			SLAB LONG. BOT.
S707	X	44	13-8			SLAB LONG. BOT. @ PIER
S508	X	81	48-10			SLAB TRANS. BOT.
S509	X	73	48-10			SLAB TRANS. TOP
S910	X	103	29-5		X	SLAB LONG. TOP @ PIER
S411	X	101	18-0			SLAB LONG. TOP
S412	X	572	3-3	X		SLAB @ SDWK.
S413	X	40	35-3			SDWK. LONG. TOP
S514	X	428	7-2	X		SDWK. TRANS. TOP
S415	X	96	2-10			SDWK. TRANS. BOT.
S416	X	12	35-3			SDWK. LONG. BOT.
S517	X	186	4-4	X		PARAPET VERT.
S518	X	194	4-9	X		PARAPET VERT.
S419	X	32	35-11			PARAPET HORIZ.
S520	X	12	5-9	X		SLAB @ ABUT. VERT.
S421	X	24	3-10			SLAB @ ABUT. HORIZ.
S522	X	8	5-9	X		PARAPET VERT. @ PAVING NOTCH

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.



TYPICAL SECTION THRU SIDEWALK

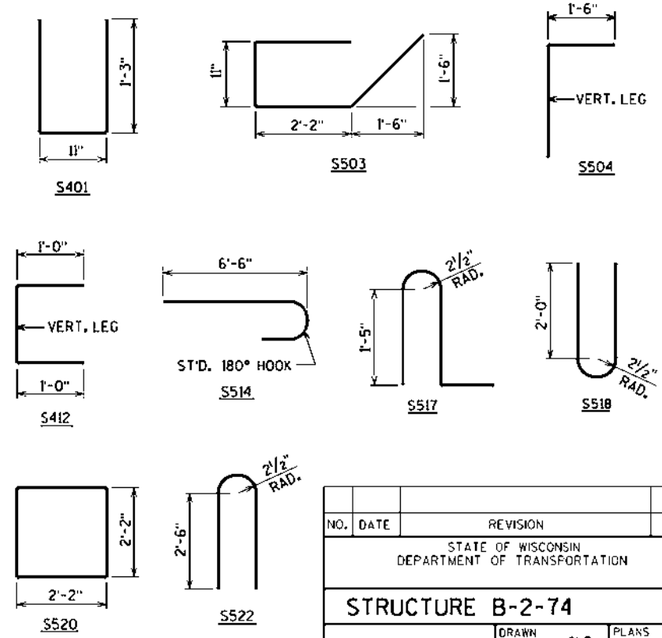


BUNDLING DETAIL

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

▪ ¾" V-GROOVE. EXTEND V-GROOVE TO 6" FROM FRONT FACE OF ABUTMENTS - TYP.

▨ CONST. JOINT - STRIKE OFF AS SHOWN AND LEAVE ROUGH. FOR DECK POUR, MATCH BRIDGE X-SLOPE.



NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-2-74

DRAWN BY CLP | PLANS CK'D. JCK

SUPERSTRUCTURE

SHEET 14 OF 19
274

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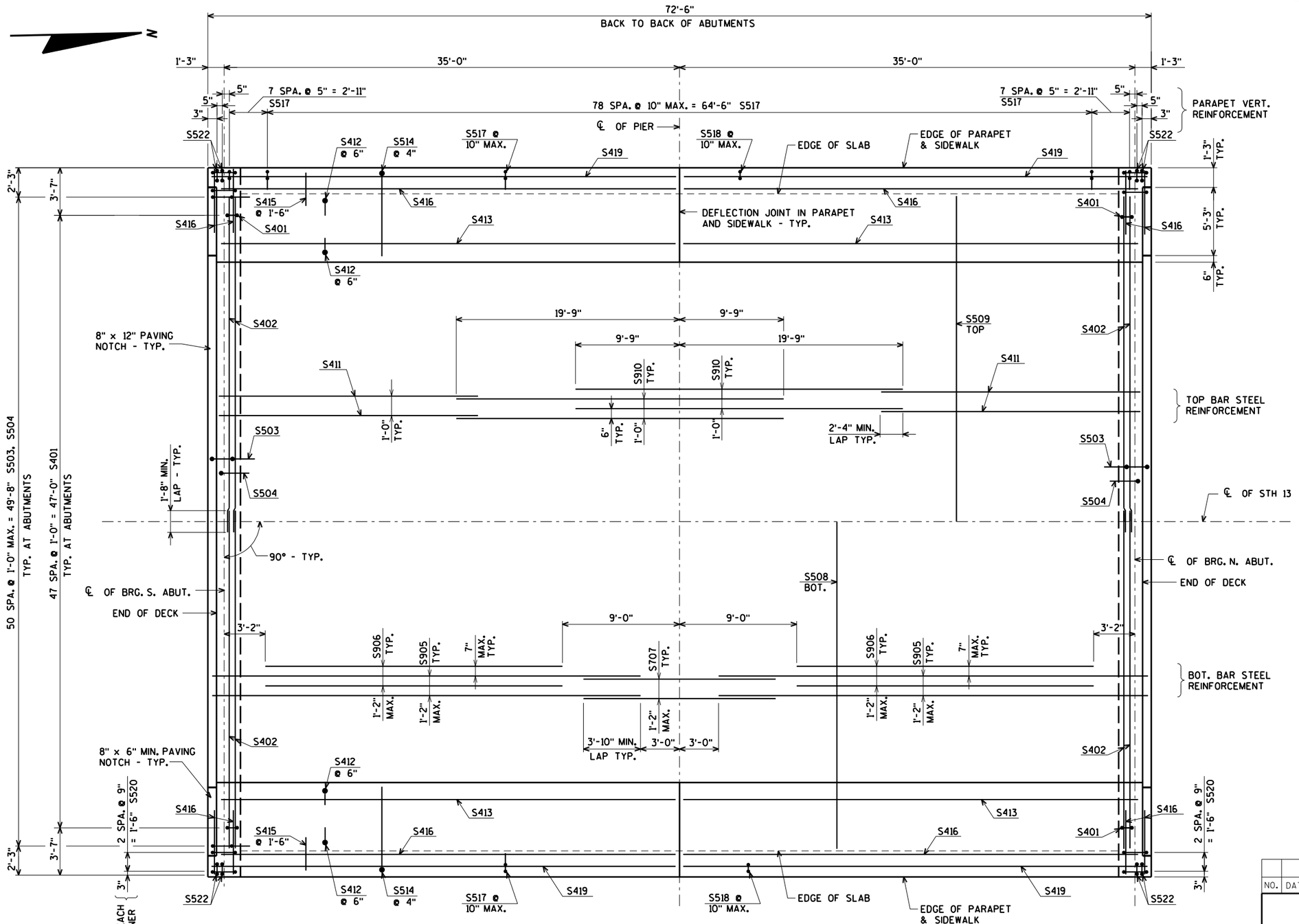
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7/25/2022
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I:±41±410835 STH 13 Mellen±Structures±CADD±Bridge±Final±410835 sup.dgn

STATE PROJECT NUMBER

1610-00-76



PLAN

NO.	DATE	REVISION	BY

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SUPERSTRUCTURE PLAN

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275

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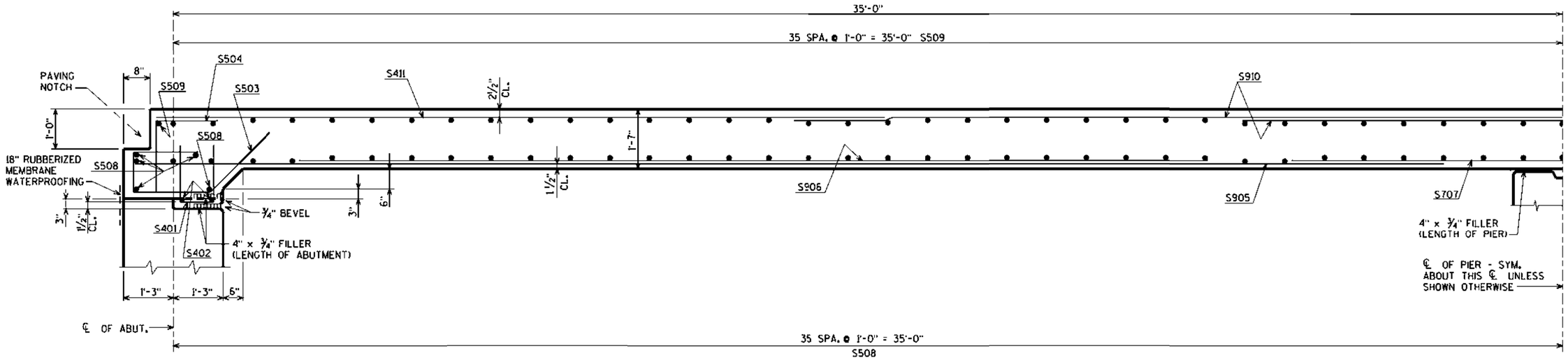
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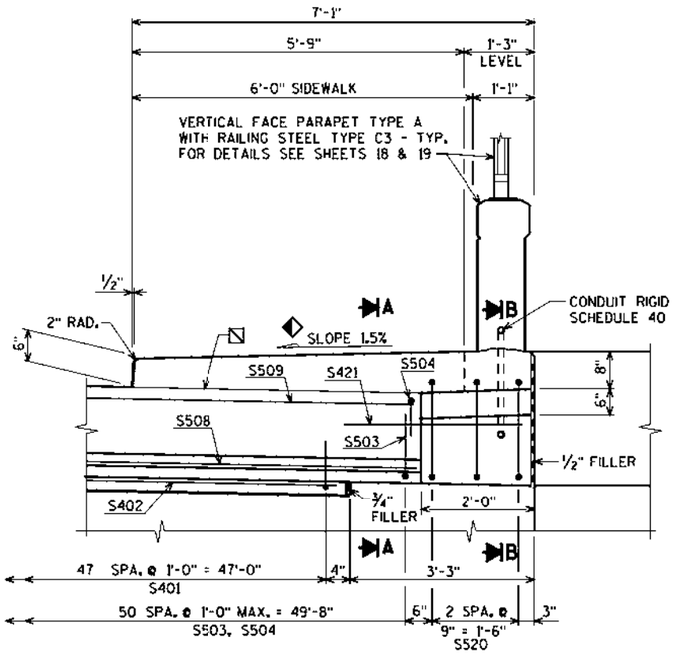
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1610-00-76

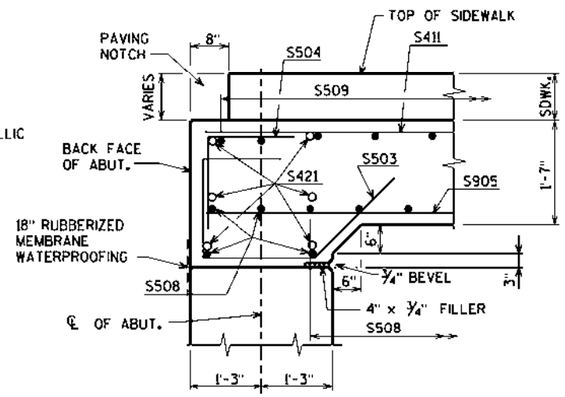


PART LONGITUDINAL SECTION

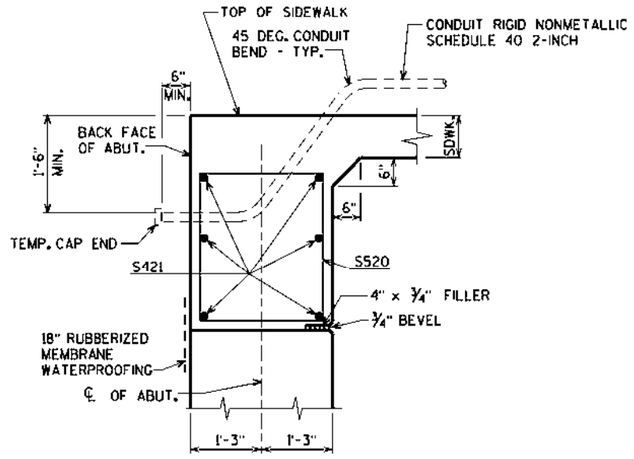


PART SECTION AT ABUTMENT

(WING 4 SHOWN, OTHER WINGS SIMILAR)



SECTION A



SECTION B

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-2-74

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SUPERSTRUCTURE DETAILS

SHEET 16 OF 19
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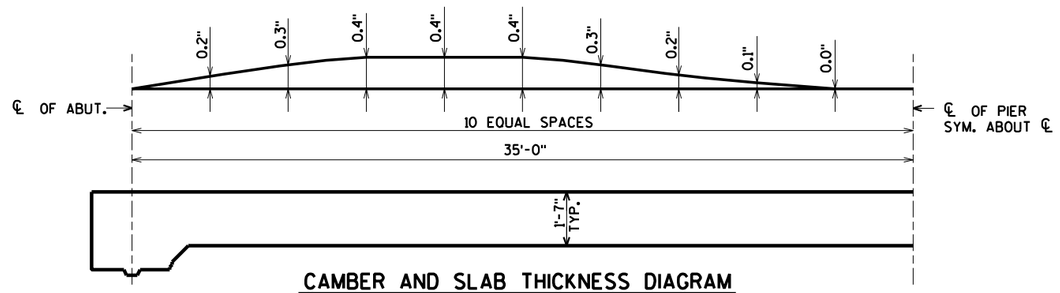
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STATE PROJECT NUMBER
1610-00-76

TOP OF DECK ELEVATIONS

ELEVATIONS SHOWN ARE FINISHED DECK AND DO NOT INCLUDE ALLOWANCES OF DEAD LOAD DEFLECTION AND FUTURE CREEP.

LOCATION	℄ OF BRG. S. ABUT.	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	℄ OF PIER	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	℄ OF BRG. N. ABUT.
WEST EDGE OF SLAB	1230.73	1230.81	1230.90	1231.00	1231.10	1231.20	1231.30	1231.41	1231.53	1231.65	1231.77	1231.89	1232.02	1232.15	1232.29	1232.43	1232.58	1232.72	1232.88	1233.03	1233.19
℄ OF STH 13	1231.23	1231.31	1231.40	1231.50	1231.60	1231.70	1231.80	1231.91	1232.03	1232.15	1232.27	1232.39	1232.52	1232.65	1232.79	1232.93	1233.08	1233.22	1233.38	1233.53	1233.69
EAST EDGE OF SLAB	1230.73	1230.81	1230.90	1231.00	1231.10	1231.20	1231.30	1231.41	1231.53	1231.65	1231.77	1231.89	1232.02	1232.15	1232.29	1232.43	1232.58	1232.72	1232.88	1233.03	1233.19



CAMBER AND SLAB THICKNESS DIAGRAM

CAMBER SHOWN IS BASED ON 3 TIMES DEAD LOAD DEFLECTION.

CAMBER SPANS AS SHOWN TO PROVIDE FOR DEAD LOAD DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT.

PARAPETS AND SIDEWALKS PLACED ON TOP OF THE SLAB SHALL BE POURED AFTER FALSEWORK HAS BEEN RELEASED.

TO DETERMINE FALSEWORK ELEVATION AT EDGE OF SLAB, CROWN OR REFERENCE LINE, FOLLOW THIS PROCEDURE:

TOP OF SLAB ELEVATION AT FINAL GRADE
MINUS.... SLAB THICKNESS
PLUS..... CAMBER
PLUS..... FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (TO BE COMPUTED BY THE CONTRACTOR)

EQUALS = TOP OF SLAB FLASEWORK ELEVATION

SURVEY TOP OF SLAB ELEVATIONS

LOCATION	℄ OF S. ABUT.	5/10 PT. SPAN 1	℄ OF PIER	5/10 PT. SPAN 2	℄ OF N. ABUT.
WEST EDGE OF SLAB					
℄ OF STRUCTURE					
EAST EDGE OF SLAB					

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF DECK ELEVATIONS AT THE ℄ OF ABUTMENTS, THE ℄ OF PIER AND AT 5/10 PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG EDGE OF SLAB AND CROWN OR ℄. RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS.

NO.	DATE	REVISION	BY

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STRUCTURE B-2-74

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SUPERSTRUCTURE DETAILS

SHEET 17 OF 19
277

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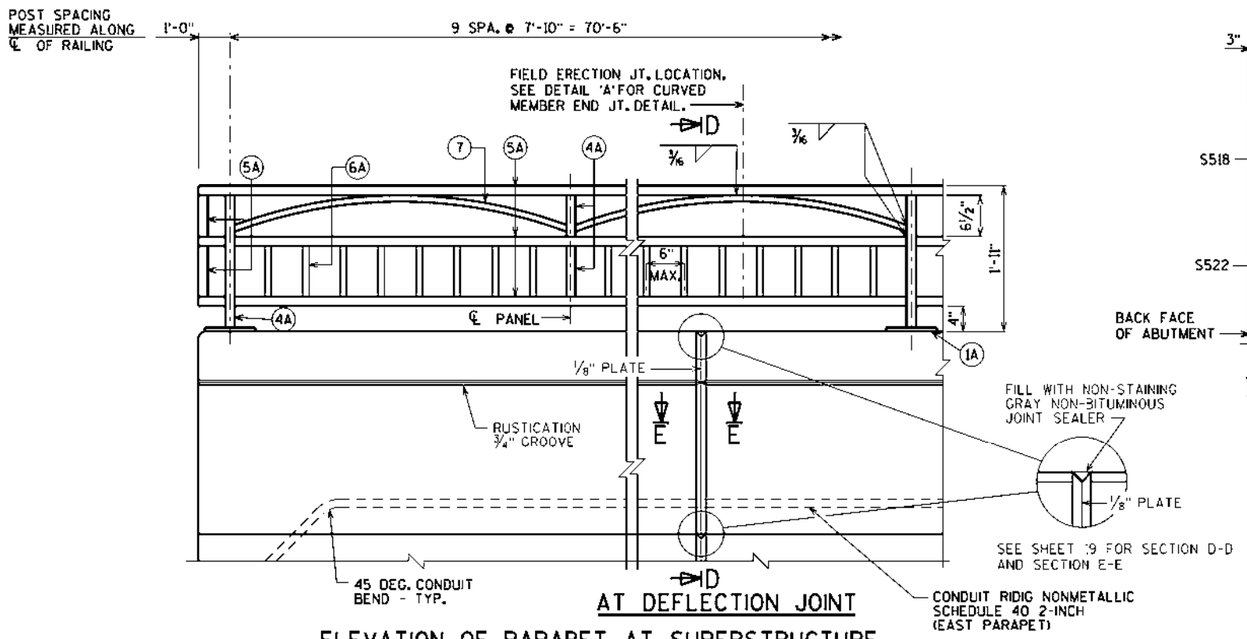
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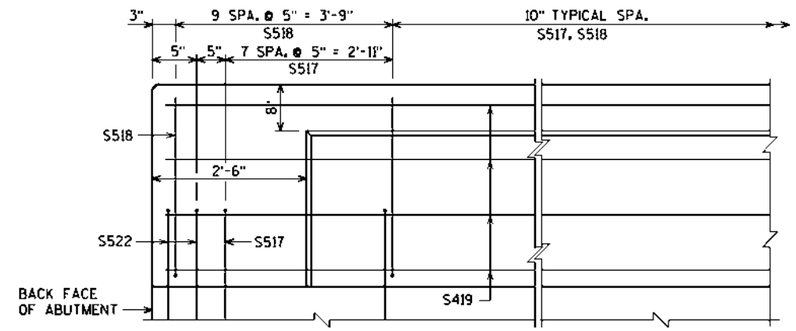
STATE PROJECT NUMBER

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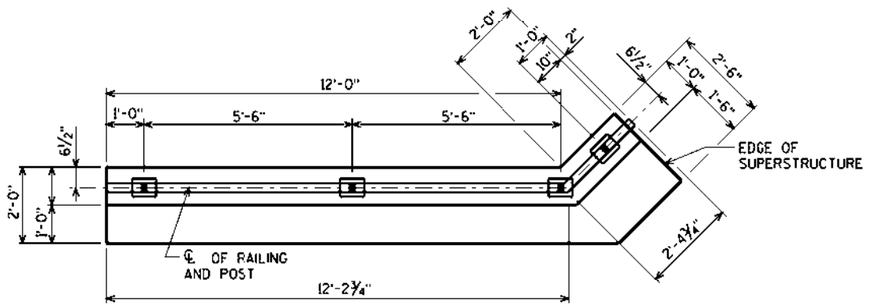


AT DEFLECTION JOINT

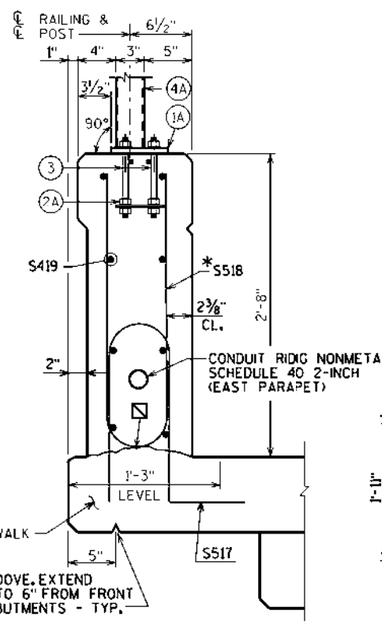
ELEVATION OF PARAPET AT SUPERSTRUCTURE



VIEW SHOWING OUTSIDE FACE OF PARAPET & REINF.

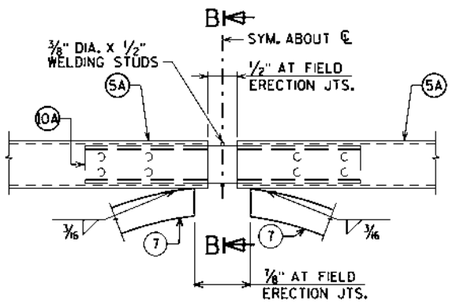


PLAN VIEW OF RAIL OVERHANG

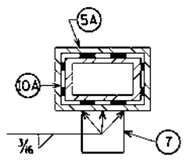


SECTION THRU PARAPET ON BRIDGE

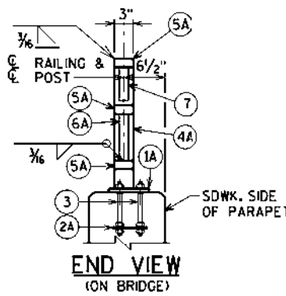
* ADJUST LOCATIONS OF BARS TO ALLOW PLACEMENT OF ANCHOR ASSEMBLY FOR RAILING AND BEAM GUARD.



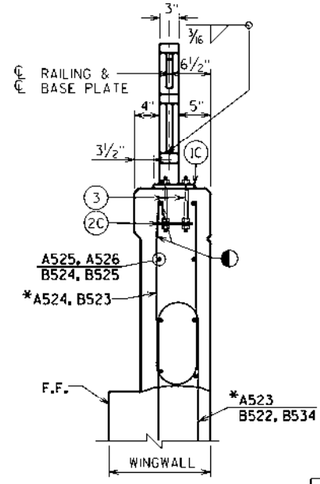
DETAIL A



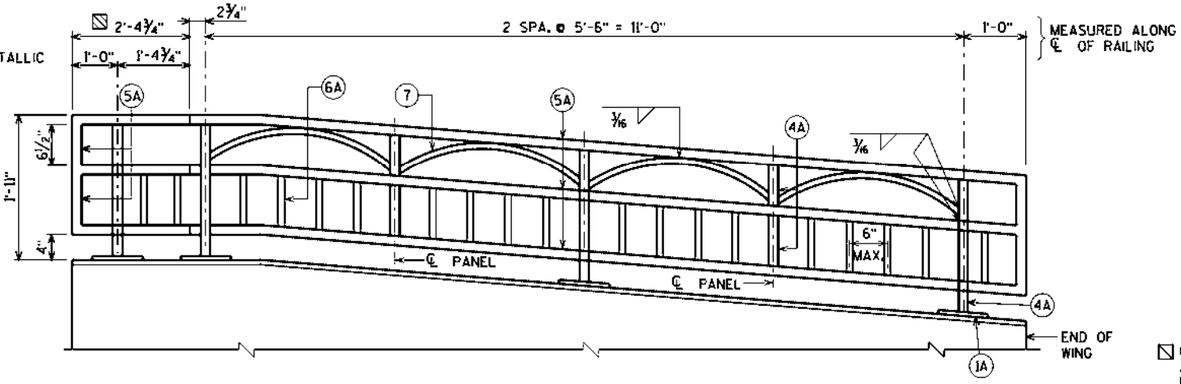
SECTION B-B



END VIEW
(ON BRIDGE)



END VIEW
(ON WINGWALL)



ELEVATION OF RAILING AT WINGS

(SEE SHEETS 6, 9 & 10 FOR WING DETAILS)

▨ OVERHANG IS BENT AT WINGS. SEE PLAN VIEW ON THIS SHEET.

▨ CONST. JOINT - STRIKE OFF AS SHOWN AND LEAVE ROUGH, FOR DECK POUR. MATCH BRIDGE X-SLOPE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-2-74

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RAILING STEEL TYPE "C3" AND PARAPET DETAILS

SHEET 18 OF 19
278

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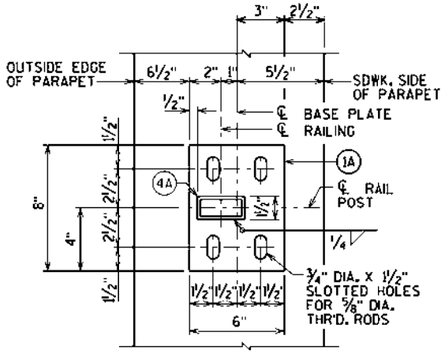
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7/26/2022

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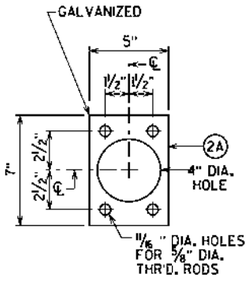
STATE PROJECT NUMBER

1610-00-76



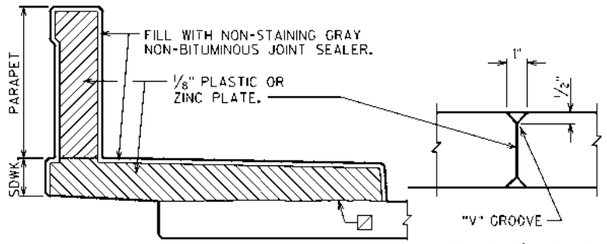
TYPICAL RAIL POST BASE PLATE

FOR 3"x1½"x⅜" POSTS (4A)



ANCHOR PLATE

FOR 3"x1½"x⅜" POSTS (4A)



SECTION D-D

SECTION E-E

(SHOWING DEFLECTION JOINT IN PARAPET AND SIDEWALK.) WHEN PARAPETS ARE POURED CONTINUOUSLY FROM END TO END, THEY SHALL BE SEPARATED AT THE DEFLECTION JOINTS BY A PIECE OF ⅛" ZINC OR PLASTIC PLATE CUT AS SHOWN IN SECTION D-D BY SHADED AREA. IF CONSTRUCTION JOINTS IN PARAPETS ARE USED AT THE DEFLECTION JOINTS, ONE SIDE OF JOINT SHALL BE COATED WITH AN APPROVED LIQUID BOND BREAKER AND PLATE SEPARATORS MAY BE OMITTED.

LEGEND

(1A) PLATE ⅝" X 6" X 8" WITH ¾" X 1½" SLOTTED HOLES.

~~(1C) PLATE ⅝" X 8" X 1'-1" WITH ¾" X 1½" SLOTTED HOLES.~~

(2A) ¼" X 5" X 7" ANCHOR PLATE WITH 11/16" DIA. HOLES FOR THR'D. RODS NO. 3.

~~(2C) ¼" X 2½" X 7¼" ANCHOR PLATE WITH 11/16" DIA. HOLES FOR THR'D. RODS NO. 3.~~

(3) ⅝" DIA. X 9" LONG, TYPE 316 STAINLESS STEEL THREADED RODS (MIN. TENSILE STRENGTH = 70 KSI) WITH NUT AND WASHERS OF SAME ALLOY GROUP. ALTERNATIVE ANCHORAGE: CONCRETE ADHESIVE ANCHORS ⅞-INCH. EMBED 7" IN CONCRETE FOR RAIL POSTS. ~~EMBED 5" IN CONCRETE FOR END RAILS.~~ ADHESIVE ANCHORS SHALL CONFORM TO SECTION 502.2.12 OF THE STANDARD SPECIFICATIONS.

(4A) STRUCTURAL TUBING 3" X 1½" X ⅜". PLACE VERTICAL. WELD TO NO. 1 & 5.

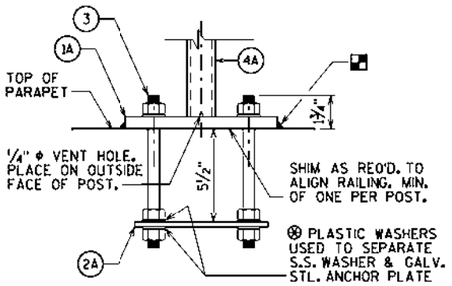
(5A) STRUCTURAL TUBING 3" X 1½" X ⅜" RAILS. WELD TO NO. 1 & NO. 4 INSIDE OF TUBE TO BE PAINTED AT ALL FIELD ERECTION ~~& EXPANSION~~ JOINTS.

(6A) BAR 1" X 1" PICKETS. WELD TO NO. 5. (SPACE AT 6" MAX. ℄ TO ℄ SPACING). PLACE VERTICAL.

(7) BAR 1" X 1". BEND TO REQUIRED RADIUS. WELD TO NO. 4 & 5.

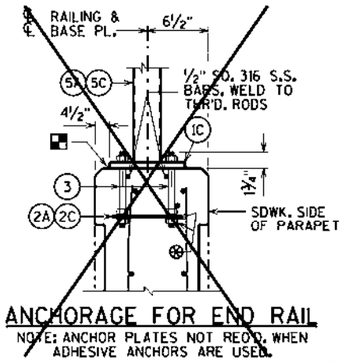
(9A) RECTANGULAR SLEEVE FABRICATED FROM ⅜" PLATES. PROVIDE "SLIDING FIT".

(10A) RECTANGULAR SLEEVE FABRICATED FROM ⅜" PLATES. (1'-4" @ FIELD ERECTION JTS.) (1'-4" @ WING 1 JT.)



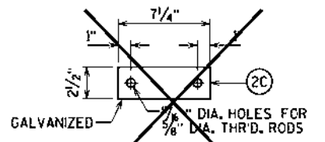
ANCHORAGE FOR RAIL POSTS

NOTE: ANCHOR PLATE NOT REQUIRED WHEN ADHESIVE ANCHORS ARE USED.



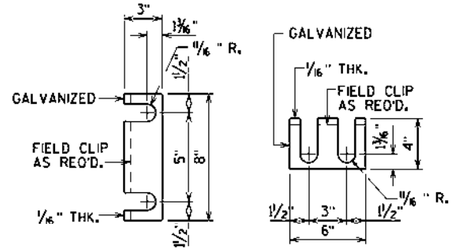
ANCHORAGE FOR END RAIL

NOTE: ANCHOR PLATES NOT REQ'D. WHEN ADHESIVE ANCHORS ARE USED.



END RAIL ANCHOR PLATE

FOR END RAIL BASE PLATES 2 REQ'D. PER END RAIL BASE PLATE



RAIL POST SHIM DETAIL

(2 SETS PER POST)

NOTES

BID ITEM SHALL BE "RAILING STEEL TYPE C3 B-2-74", WHICH SHALL INCLUDE ALL STEEL ITEMS SHOWN.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

ALL PLATES, BARS, AND RECTANGULAR SLEEVES SHALL CONFORM TO ASTM A709 GRADE 36. ALL STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B.

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET NORMAL TO GRADE.

CUT BOTTOM OF POST TO MAKE POST VERTICAL IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTION.

STEEL SHIMS SHALL BE PROVIDED & USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT, AND SHALL BE GALVANIZED.

■ CAULK AROUND PERIMETER OF BASE PLATES, NO. 1, AND FILL BOLT SLOT OPENINGS IN SHIMS AND BASE PLATES WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

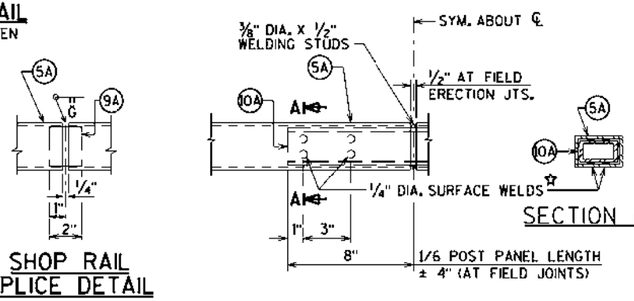
ALL JOINTS AND RECESSES IN CONCRETE PARAPET ARE TO BE VERTICAL.

ALL MATERIAL (EXCEPT NO. 3) SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, THE STEEL RAILING SHALL BE GIVEN A NO. 6 BLAST CLEANING PER SSPC SPECIFICATIONS. PAINT OVER GALVANIZING WITH AN APPROVED TIE COAT AND TOP COAT AS SPECIFIED IN THE CONTRACT DOCUMENTS. THE RAILING SHALL BE PAINTED FEDERAL COLOR NO. 27038, BLACK.

VENT HOLES SHALL BE DRILLED IN POST AND RAIL MEMBERS AS REQUIRED TO FACILITATE GALVANIZING AND DRAINAGE.

RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE 3 OR 4 POSTS.

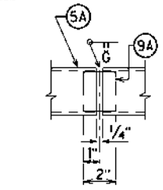
TOUCH-UP PAINTING TO BE DONE AT COMPLETION OF STEEL RAILING INSTALLATION TO THE SATISFACTION OF THE ENGINEER AT NO EXTRA COST.



SECTION A-A

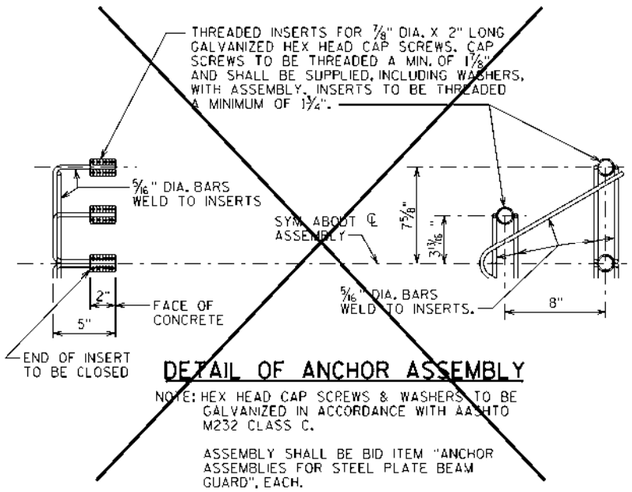
FIELD ERECTION JOINT DETAIL

☆ MIN. ⅝" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.



SHOP RAIL SPLICE DETAIL

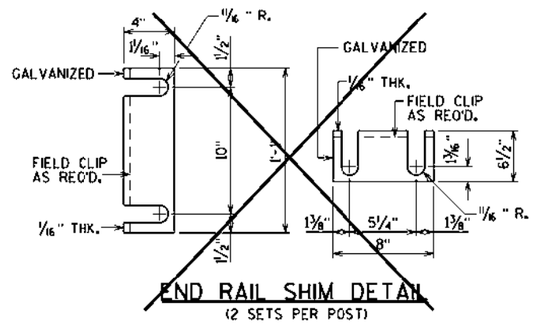
(LOCATION MUST BE SHOWN ON SHOP DRAWINGS)



DETAIL OF ANCHOR ASSEMBLY

NOTE: HEX HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.

ASSEMBLY SHALL BE BID ITEM "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD", EACH.



END RAIL SHIM DETAIL

(2 SETS PER POST)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-2-74

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RAILING STEEL TYPE "C3" DETAILS

SHEET 19 OF 19
279

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$PRFNAME$
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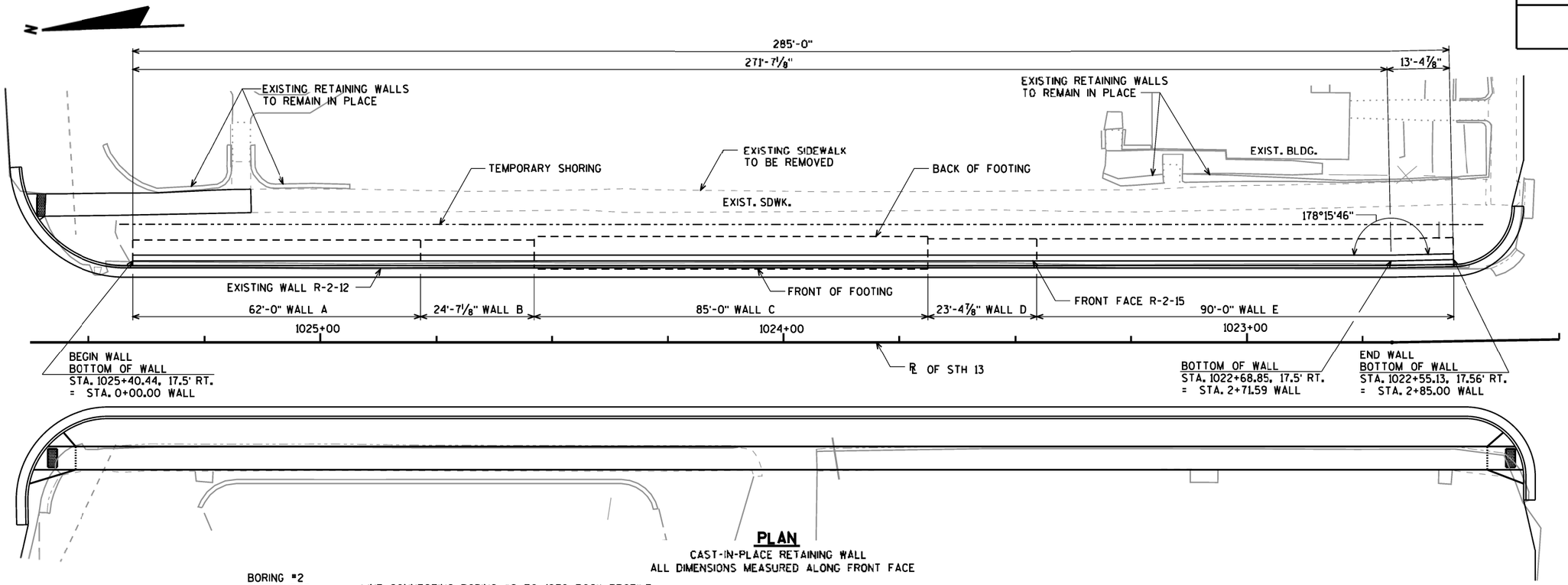
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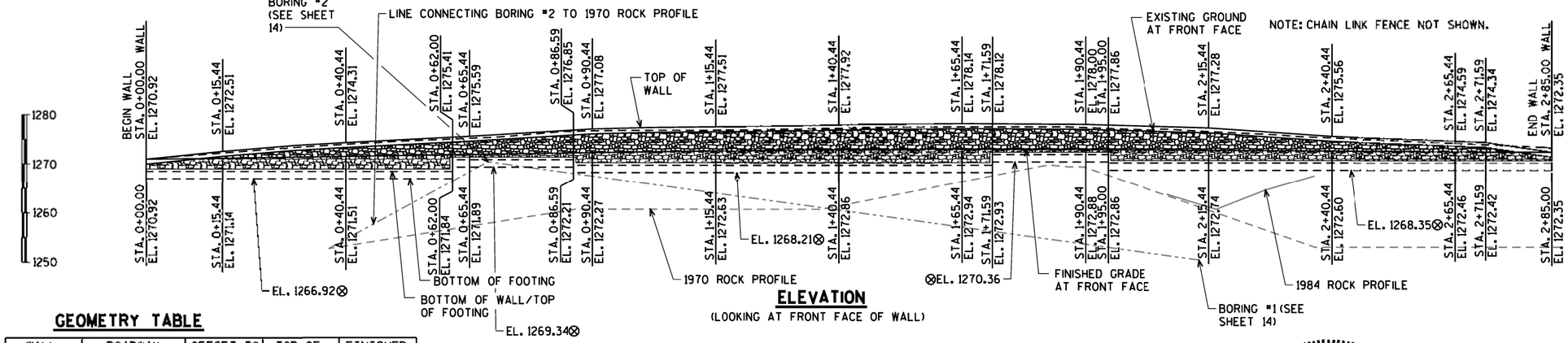
STATE PROJECT NUMBER

1610-00-76



PLAN

CAST-IN-PLACE RETAINING WALL
ALL DIMENSIONS MEASURED ALONG FRONT FACE



ELEVATION

(LOOKING AT FRONT FACE OF WALL)

FOR GENERAL NOTES, DESIGN DATA, AND TYPICAL SECTION SEE SHEET 2

LIST OF DRAWINGS

1. GENERAL PLAN AND ELEVATION
2. RETAINING WALL DETAILS
3. FORMLINER DETAILS
4. WALL A TYPICAL SECTION & FOOTING PLAN
5. WALL A ELEVATION
6. WALL B DETAILS
7. WALL C TYPICAL SECTION & FOOTING PLAN
8. WALL C ELEVATION
9. WALL D DETAILS
10. WALL E TYPICAL SECTION & FOOTING PLAN
11. WALL E ELEVATION
12. BILL OF BARS
13. CHAINLINK FENCE DETAILS
14. SUBSURFACE EXPLORATION

GEOMETRY TABLE

WALL STATION	ROADWAY STATION	OFFSET TO F.F. WALL	TOP OF WALL EL.	FINISHED GRADE EL.
0+00.00	1025+40.44	17.50'	1270.92	1270.92
0+15.44	1025+25.00	17.50'	1272.51	1271.14
0+40.44	1025+00.00	17.50'	1274.31	1271.51
0+62.00	1024+78.44	17.50'	1275.41	1271.84
0+65.44	1024+75.00	17.50'	1275.59	1271.89
0+86.59	1024+53.85	17.50'	1276.85	1272.21
0+90.44	1024+50.00	17.50'	1277.08	1272.27
1+15.44	1024+25.00	17.50'	1277.51	1272.63
1+40.44	1024+00.00	17.50'	1277.92	1272.86
1+65.44	1023+75.00	17.50'	1278.14	1272.94
1+71.59	1023+68.85	17.50'	1278.12	1272.93
1+90.44	1023+50.00	17.50'	1278.00	1272.88
1+95.00	1023+45.44	17.50'	1277.86	1272.86
2+15.44	1023+25.00	17.50'	1277.28	1272.74
2+40.44	1023+00.00	17.50'	1275.56	1272.60
2+65.44	1022+75.00	17.50'	1274.59	1272.46
2+71.59	1022+68.85	17.50'	1274.34	1272.42
2+85.00	1022+55.13	17.56'	1272.35	1272.35

⊗ THE ELEVATION OF THE BOTTOMS OF FOOTINGS IS APPROXIMATE ONLY. THE TYPICAL BOTTOM OF FOOTING SHALL BE 4'-0" MIN. BELOW FINISHED GRADE AT THE FRONT FACE OF THE WALL. AT LOCATIONS OF SHALLOW BEDROCK, PROVIDE 1'-0" MIN. FROM THE FINISHED GRADE AT THE FRONT FACE OF THE WALL TO THE TOP OF FOOTING FOR PLACEMENT OF CURB AND GUTTER.

TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEMS	UNIT
204.9090.S	REMOVING RETAINING WALL R-2-12	273 LF
206.3001	EXCAVATION FOR STRUCTURES RETAINING WALLS R-2-15	1 EACH
210.1500	BACKFILL STRUCTURE TYPE A	1,000 TON
504.0500	CONCRETE MASONRY RETAINING WALLS	182 CY
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	5,620 LB
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	7,620 LB
511.1200	TEMPORARY SHORING R-2-15	3,025 SF
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	12 SY
517.1015.S	CONCRETE STAINING MULTI-COLOR R-2-15	1,400 SF
517.1050.S	ARCHITECTURAL SURFACE TREATMENT R-2-15	1,400 SF
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	305 LF
SPV.0090.25	FENCE CHAIN LINK POLYMER-COATED 4-FT. R-2-15	284 LF

WISCONSIN
KAREN L. WALDERA
E-39158
TAYLOR
WI
PROFESSIONAL ENGINEER

10/11/2022

BRIDGE OFFICE CONTACT:
AARON BONK
(608)-261-0261

CONSULTANT CONTACT:
KAREN WALDERA
(715)-834-3161

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY
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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____ SDR 10/11/22
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE R-2-15

RETAINING WALL ALONG STH 13

COUNTY: ASHLAND — ~~TOWN/CITY/VILLAGE~~: MELLEN

DESIGN SPEC.: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	JCK	DESIGN CK'D.	ZSS	DRAWN BY	CLP/JLB	PLANS CK'D.	KLW

GENERAL PLAN AND ELEVATION

SHEET 1 OF 14
280

10/11/2022
PENTABLE:BReau_shd_util.tbl

DATE:
DATE:
DATE:

CHECKED BY:
BACK CHECKED BY:
CORRECTED BY:

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I.D.

DATE:

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SOIL PARAMETERS

SOIL DESCRIPTION	FRICTION ANGLE ϕ	MOIST UNIT WEIGHT	COHESION, c_u	FACTORED BEARING RESISTANCE
GRANULAR BACKFILL	30°	120 pcf	0 psf	5,000 psf
RETAINED SOIL	30°	120 pcf	0 psf	5,000 psf

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.H.T.O. DESIGNATION M 153, TYPE I, II OR III OR A.A.S.H.T.O. DESIGNATION M 213.

AT THE BACK FACE OF THE RETAINING WALL ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES RETAINING WALLS R-2-15" SHALL BE THE EXISTING GROUND.

THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE A" REQUIRED FOR THE ENTIRE WALL LENGTH. BACKFILL PLACED BEYOND PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES.

EXTENT OF EXISTING RETAINING WALL FOOTING IS NOT KNOWN. REMOVE EXISTING RETAINING WALL FOOTING AS NEEDED TO BUILD NEW RETAINING WALL. COST OF FOOTING REMOVAL IS CONSIDERED INCIDENTAL TO "REMOVING RETAINING WALL R-2-12" BID ITEM.

THE EXISTING RETAINING WALL, R-2-12, IS A CAST-IN-PLACE CONCRETE WALL APPROXIMATELY A MAXIMUM OF 5-FEET TALL AND 273-FEET LONG. REMOVAL OF THE WALL IS INCIDENTAL TO "REMOVING RETAINING WALL R-2-12".

DESIGN DATA

LIVE LOAD:

100 psf SURCHARGE

MATERIAL PROPERTIES:

CONCRETE MASONRY ——— f'_c = 3,500 p.s.i.

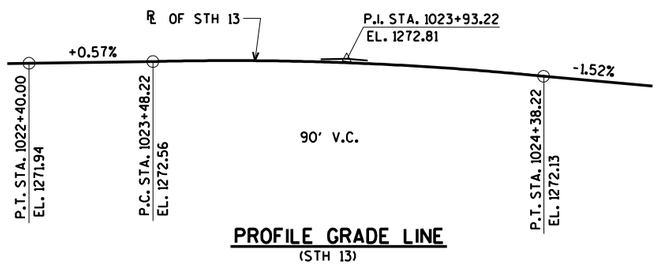
HIGH STRENGTH BAR STEEL REINFORCEMENT (GRADE 60) ——— f_y = 60,000 p.s.i.

FOUNDATION DATA:

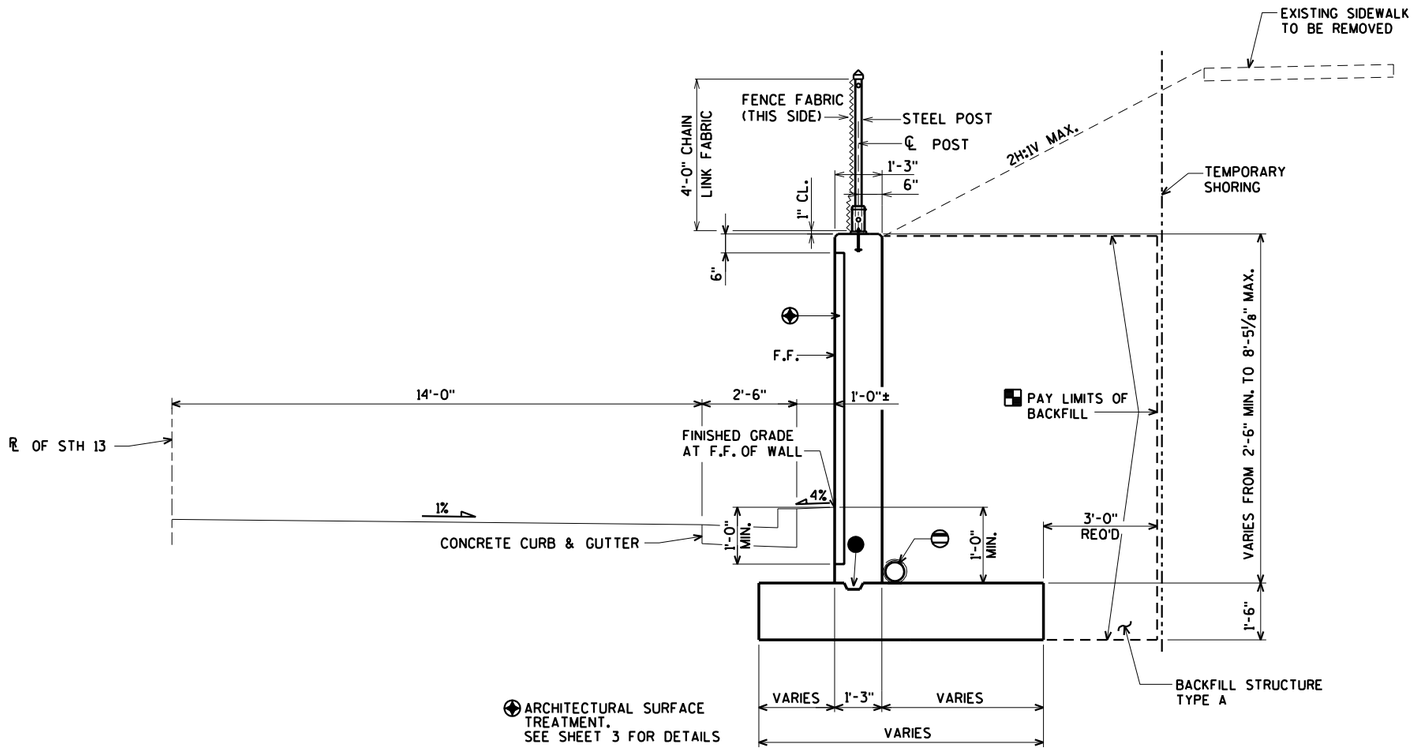
RETAINING WALL TO BE SUPPORTED ON MATERIAL WITH A MINIMUM FACTORED BEARING RESISTANCE OF 5,000 psf. A GEOTECHNICAL ENGINEER WILL DETERMINE THE FACTORED BEARING RESISTANCE BY VISUAL INSPECTION PRIOR TO CONSTRUCTION OF THE RETAINING WALL FOOTING.

TRAFFIC DATA:

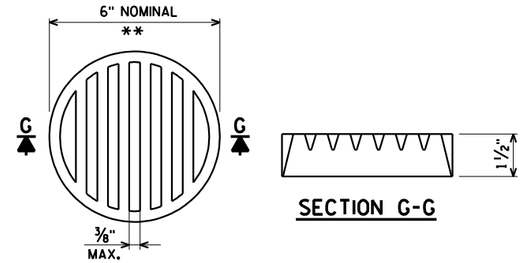
A.A.D.T. = 3,000 (2022)
A.A.D.T = 3,600 (2042)
R.D.S. = 30 MPH



PROFILE GRADE LINE
(STH 13)



TYPICAL SECTION



SECTION G-G

** DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 x 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

RODENT SHIELD DETAIL

● KEYED CONST. JOINT - FORMED BY A BEVELED 2" x 6".

▪ BACKFILL LIMITS. BACKFILL BEYOND BACKFILL LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

⊖ PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON THIS SHEET.

NO.	DATE	REVISION	BY

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STRUCTURE R-2-15

DRAWN BY CLP/JLB | PLANS CK'D. JCK

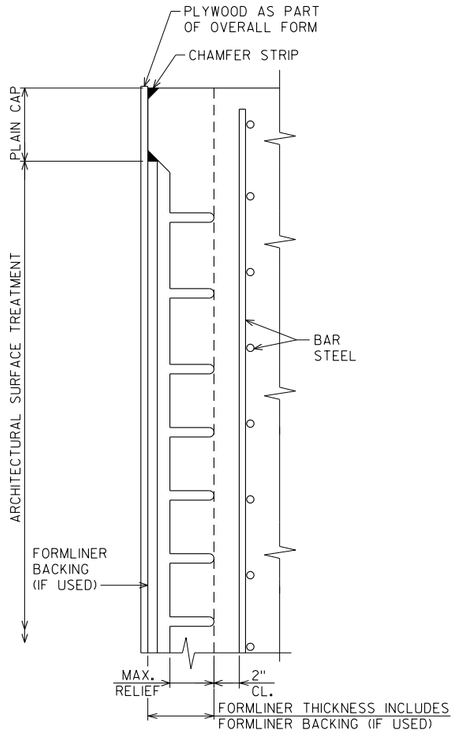
RETAINING WALL DETAILS

SHEET 2 OF 14
281

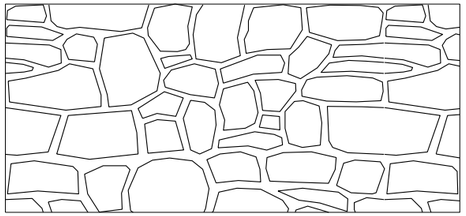
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SECTION THRU FORMLINER

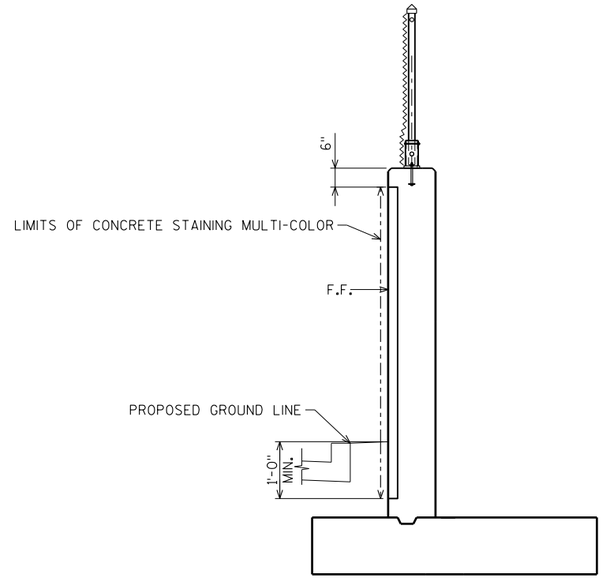


RANDOM FIELD STONE (OR EQUIV.)

FORMLINER THICKNESS = 3" MAX.
SIZED BETWEEN 8"-24" W; 4"-20" H
MAX RELIEF = 2" MAX.

NOTES

FORMLINER COURSING ON RETAINING WALL SHALL BE LEVEL.



CONCRETE STAINING MULTI-COLOR

5/17/2022
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STRUCTURE R-2-15

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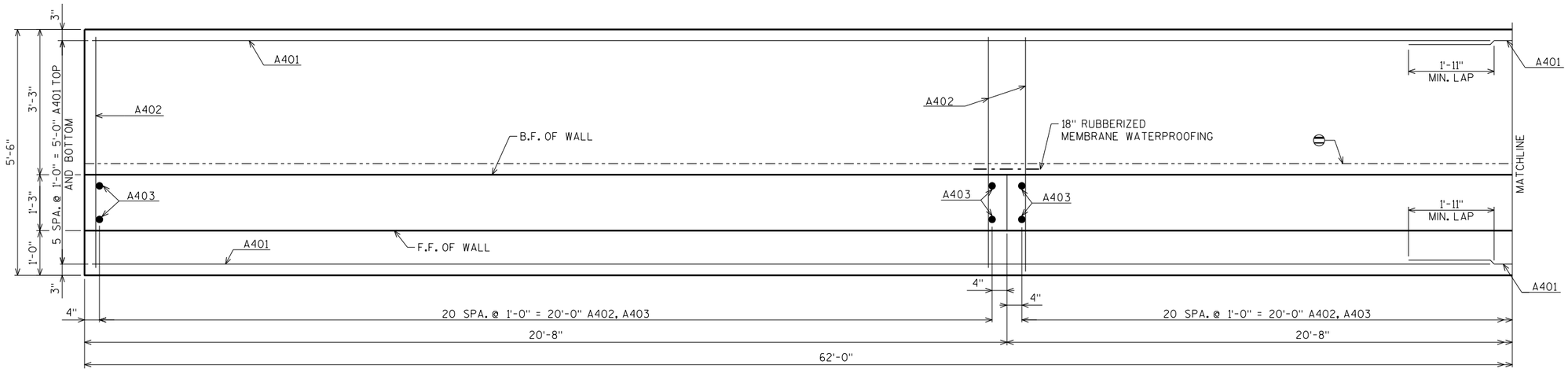
FORMLINER DETAILS

SHEET 3 OF 14
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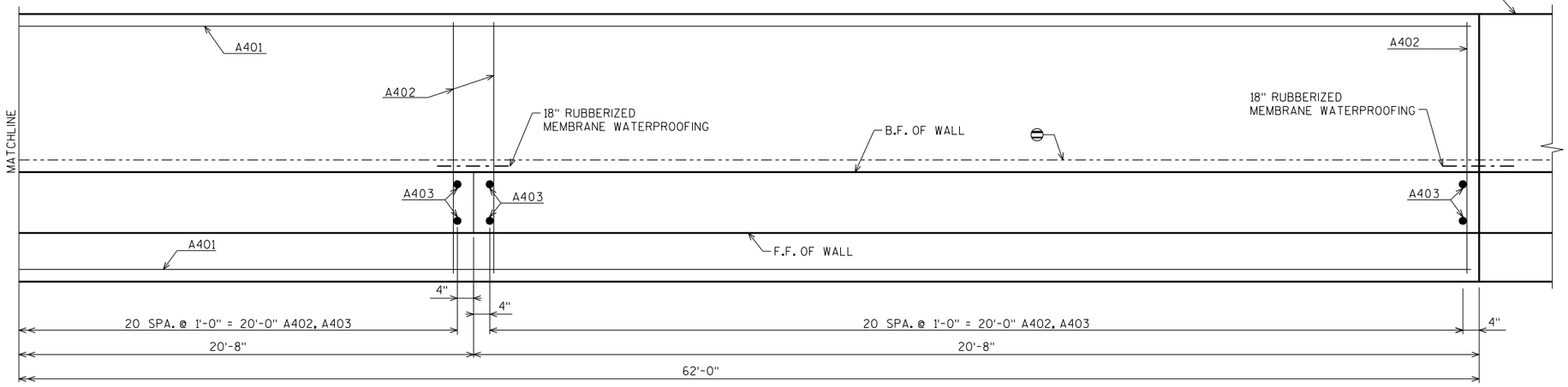
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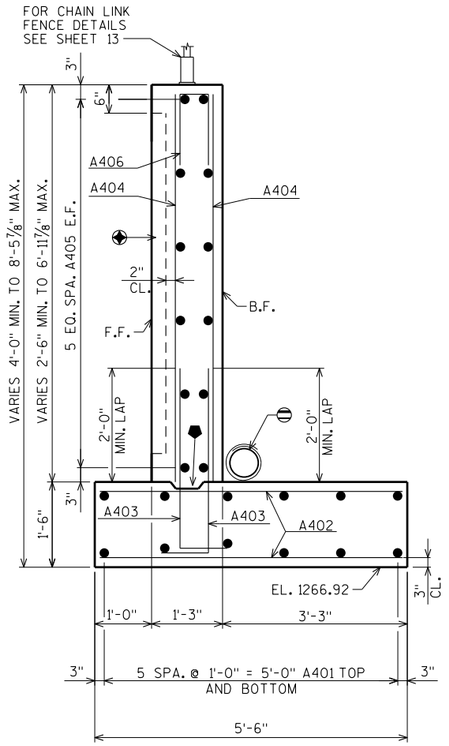
1610-00-76



FOOTING PLAN - WALL A



FOOTING PLAN - WALL A



TYPICAL SECTION THRU WALL A

- ⊖ PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN. SEE DETAIL ON SHEET 2.
- ⊕ LIMITS OF ARCHITECTURAL SURFACE TREATMENT. SEE SHEET 3 FOR DETAILS.
- ⬟ CONST. JOINT FORMED BY SURFACED BEVELED 2" x 6".

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DEPARTMENT OF TRANSPORTATION

STRUCTURE R-2-15

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WALL A TYPICAL SECTION & FOOTING PLAN

SHEET 4 OF 14
283

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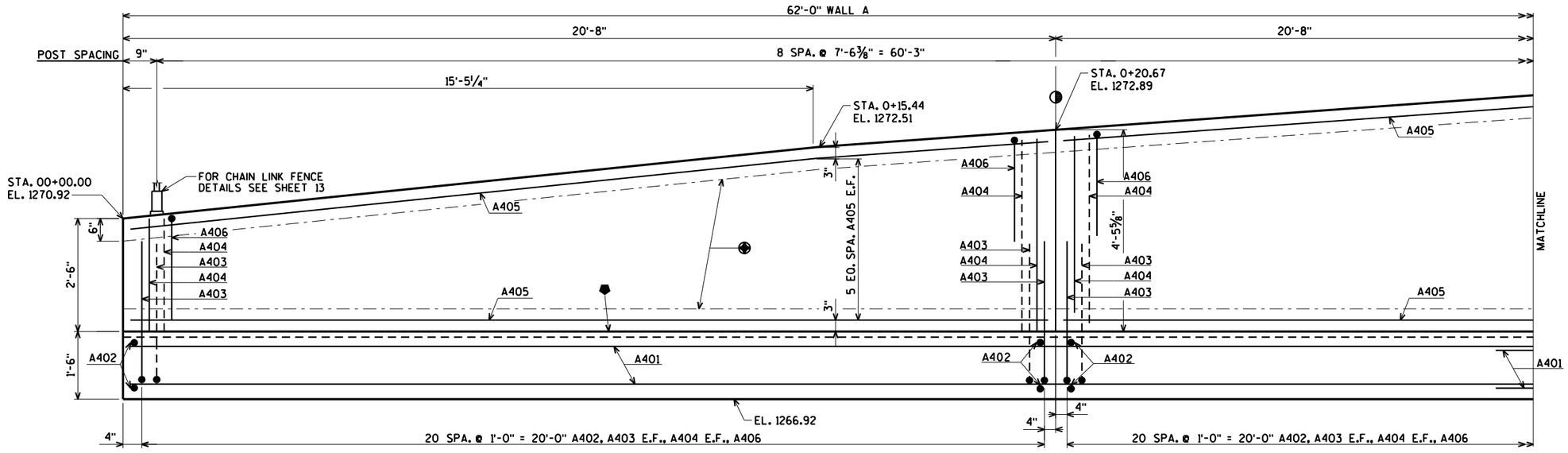
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5/17/2022
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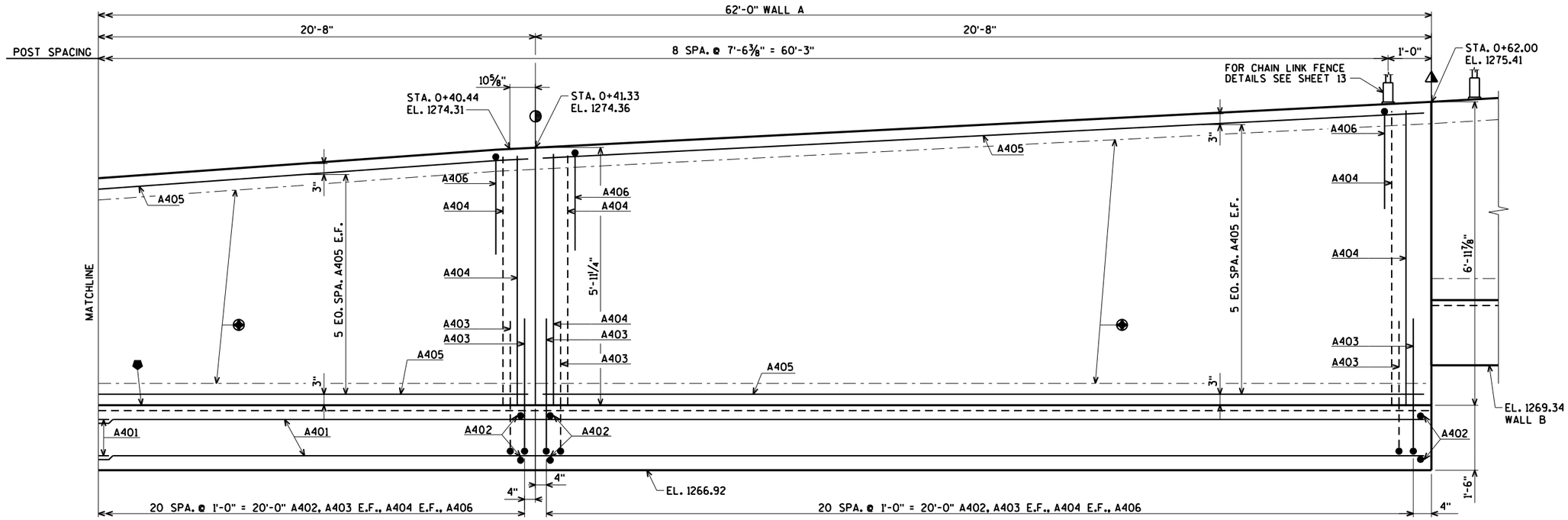
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STATE PROJECT NUMBER

1610-00-76



ELEVATION - WALL A



ELEVATION - WALL A

- LIMITS OF ARCHITECTURAL SURFACE TREATMENT. SEE SHEET 3 FOR DETAILS.
- CONST. JOINT FORMED BY SURFACED BEVELED 2" x 6".
- DENOTES VERTICAL CONTRACTION JOINT. SEE DETAIL ON SHEET 12.
- DENOTES ℄ OF VERTICAL EXPANSION JOINT. SEE DETAIL ON SHEET 12.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-2-15

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WALL A ELEVATION

SHEET 5 OF 14
284

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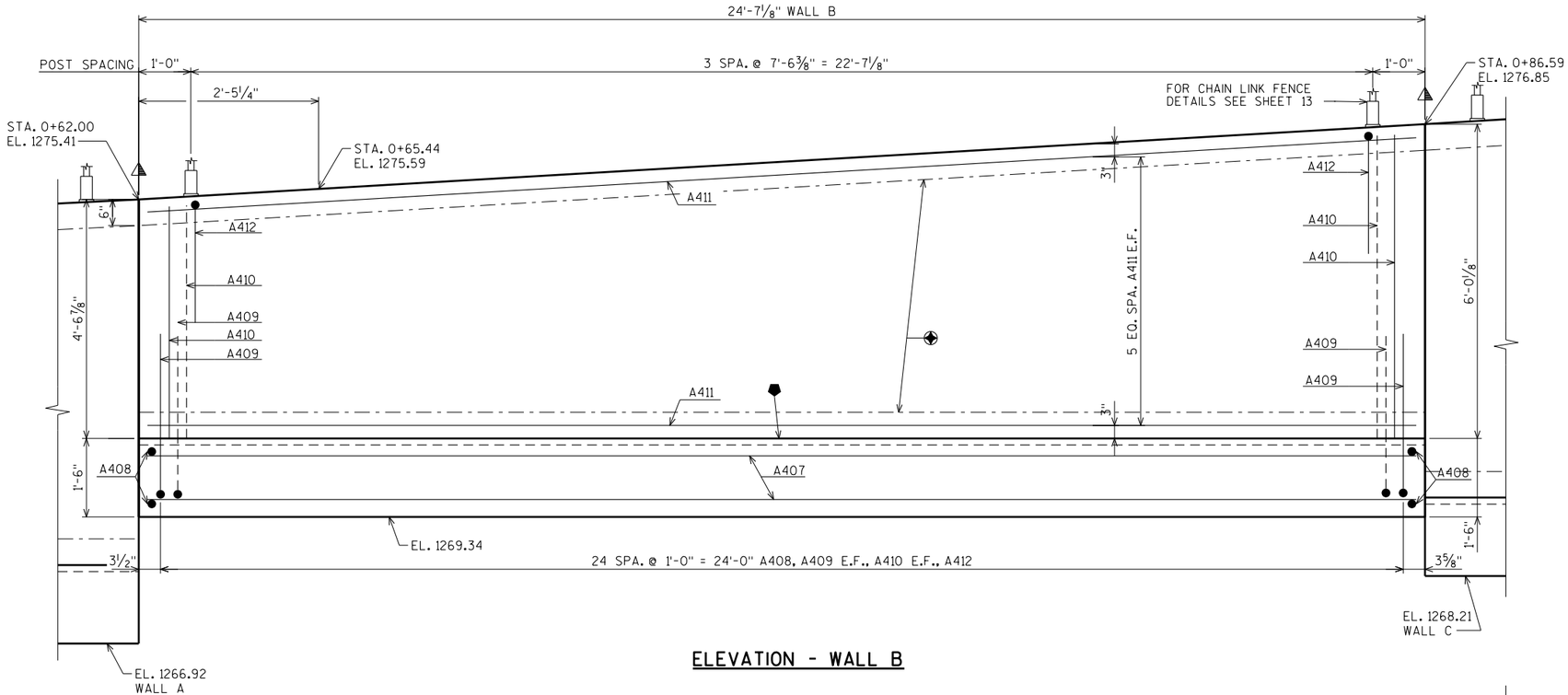
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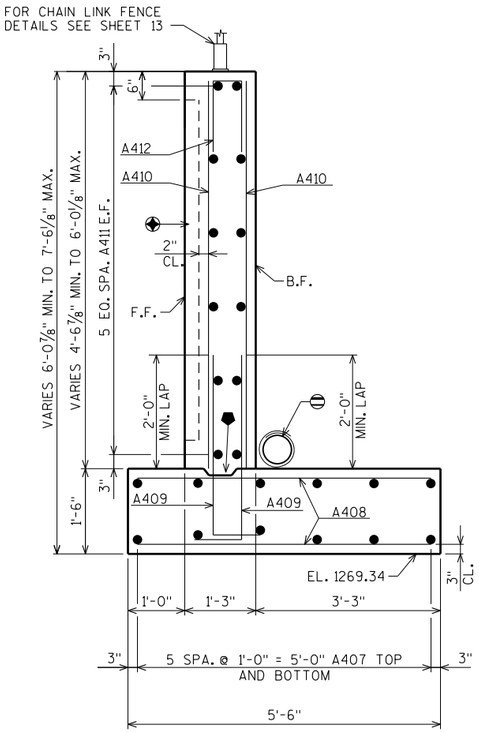
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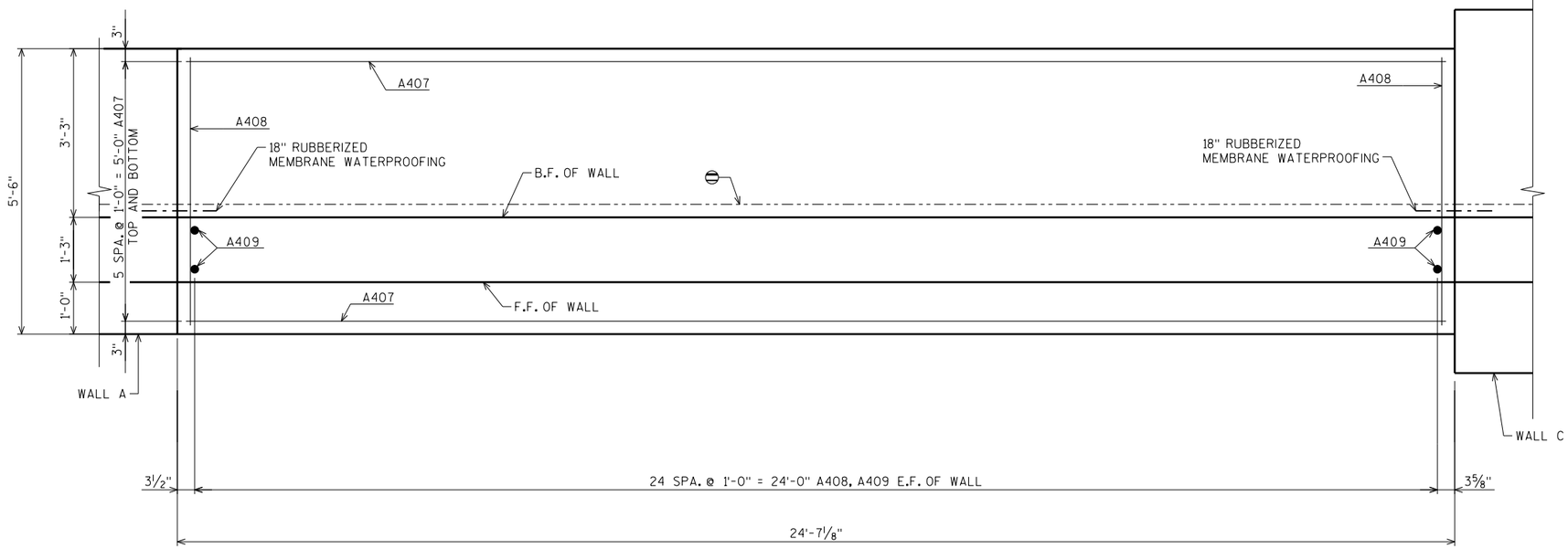
1610-00-76



ELEVATION - WALL B



TYPICAL SECTION THRU WALL B



FOOTING PLAN - WALL B

- LIMITS OF ARCHITECTURAL SURFACE TREATMENT. SEE SHEET 3 FOR DETAILS.
- PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN. SEE DETAIL ON SHEET 2.
- CONST. JOINT FORMED BY SURFACED BEVELED 2" x 6".
- ⚠ DENOTES ℄ OF VERTICAL EXPANSION JOINT. SEE DETAIL ON SHEET 14.

NO.	DATE	REVISION	BY

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STRUCTURE R-2-15

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WALL B DETAILS

SHEET 6 OF 14
285

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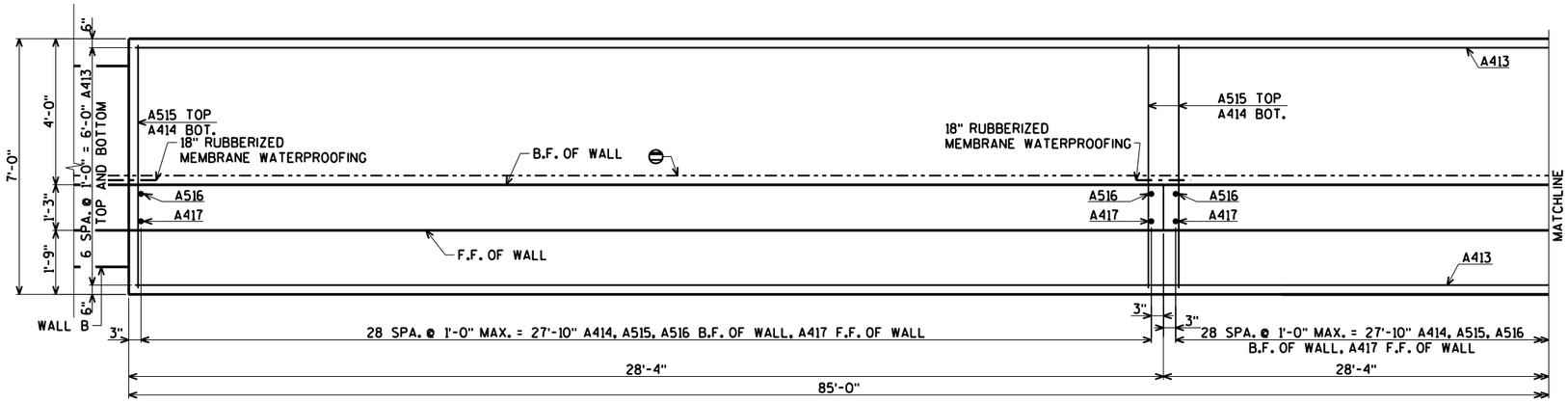
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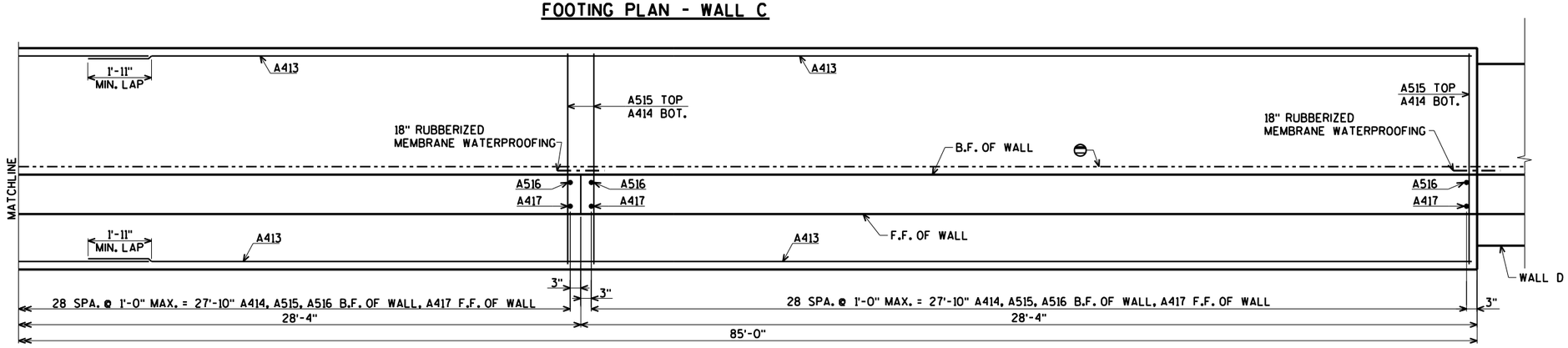
● LIMITS OF ARCHITECTURAL SURFACE TREATMENT. SEE SHEET 3 FOR DETAILS.

⊖ PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN. SEE DETAIL ON SHEET 2.

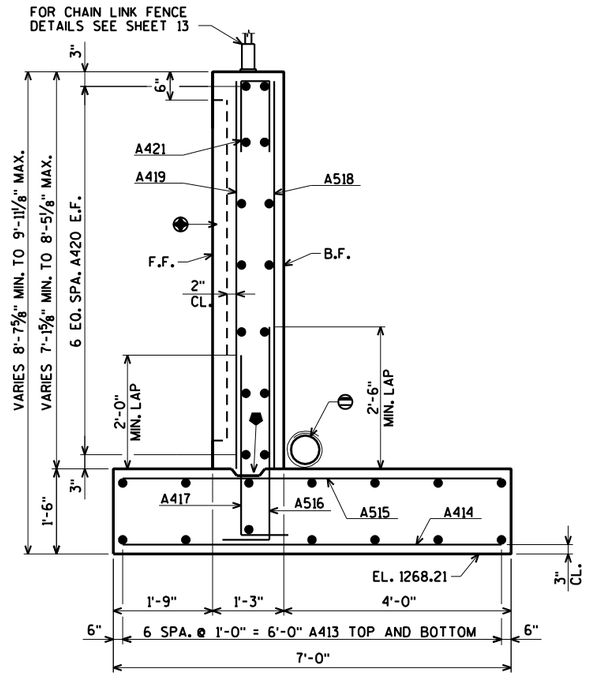
◆ CONST. JOINT FORMED BY SURFACED BEVELED 2" x 6".



FOOTING PLAN - WALL C



FOOTING PLAN - WALL C



TYPICAL SECTION THRU WALL C

NO.	DATE	REVISION	BY

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STRUCTURE R-2-15

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WALL C TYPICAL SECTION & FOOTING PLAN

SHEET 7 OF 14
286

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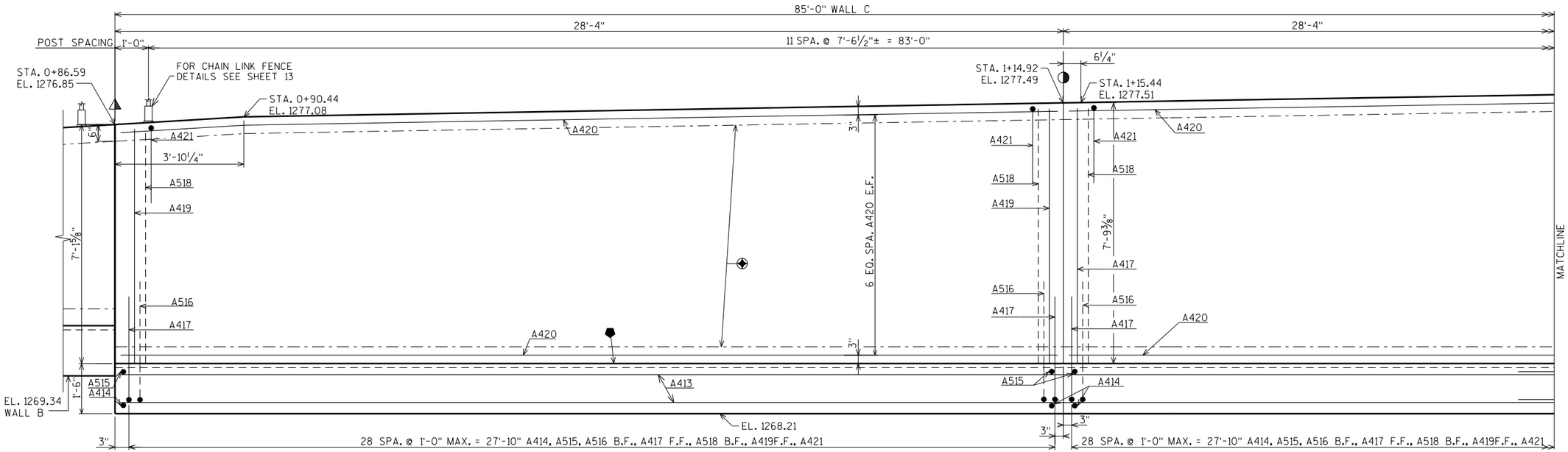
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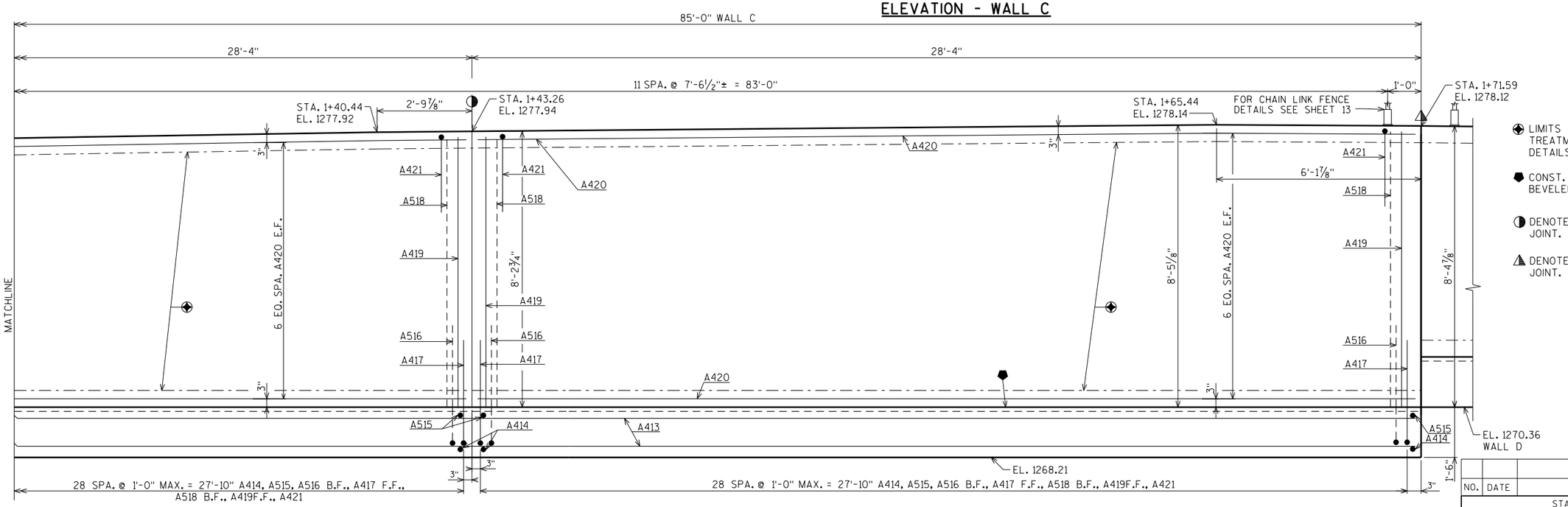
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STATE PROJECT NUMBER
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ELEVATION - WALL C



- ◈ LIMITS OF ARCHITECTURAL SURFACE TREATMENT. SEE SHEET 3 FOR DETAILS.
- ⬟ CONST. JOINT FORMED BY SURFACED BEVELED 2" × 6".
- ◑ DENOTES VERTICAL CONTRACTION JOINT. SEE DETAIL ON SHEET 12.
- ⚠ DENOTES ℄ OF VERTICAL EXPANSION JOINT. SEE DETAIL ON SHEET 12.

ELEVATION - WALL C

NO.	DATE	REVISION	BY

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DEPARTMENT OF TRANSPORTATION

STRUCTURE R-2-15

DRAWN BY JLB | PLANS CK'D. JCK

WALL C ELEVATION

SHEET 8 OF 14
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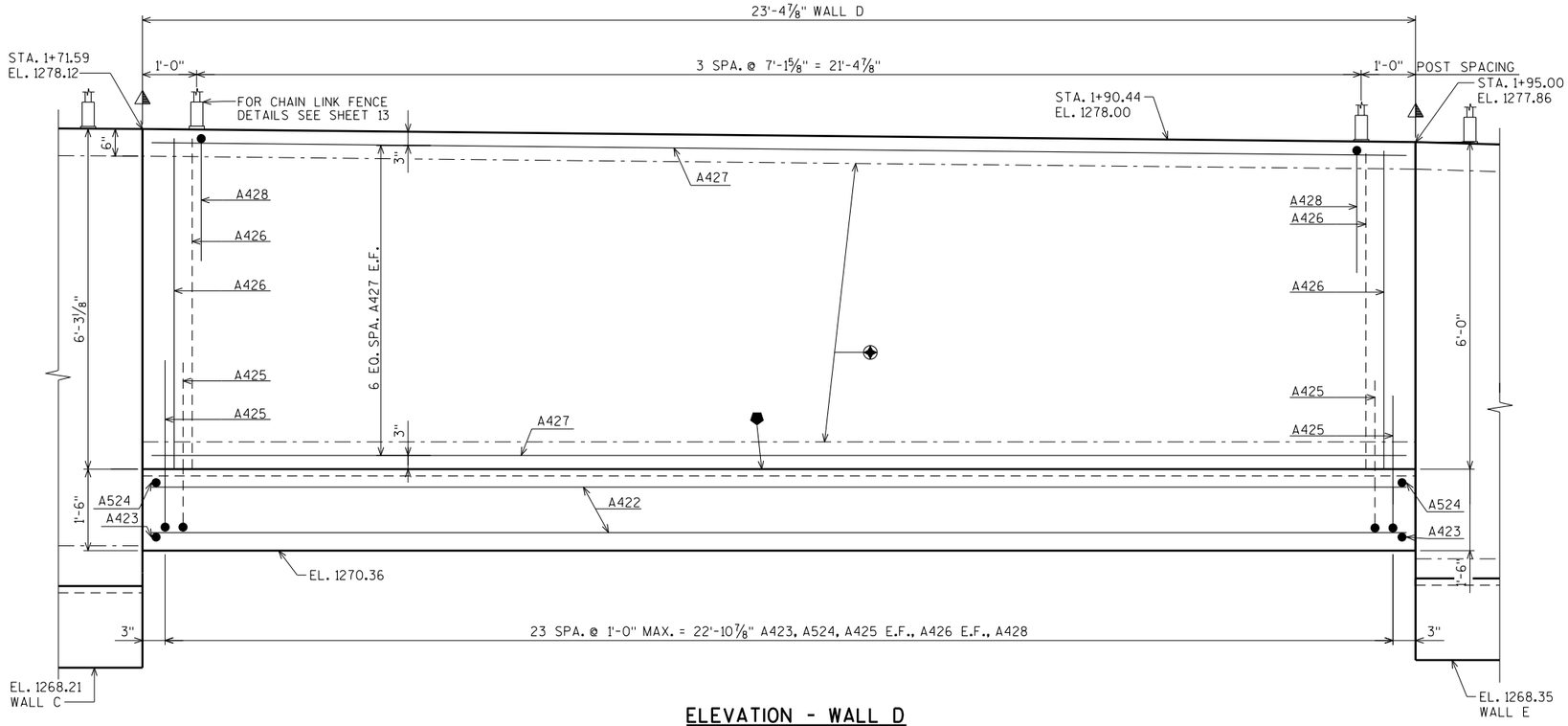
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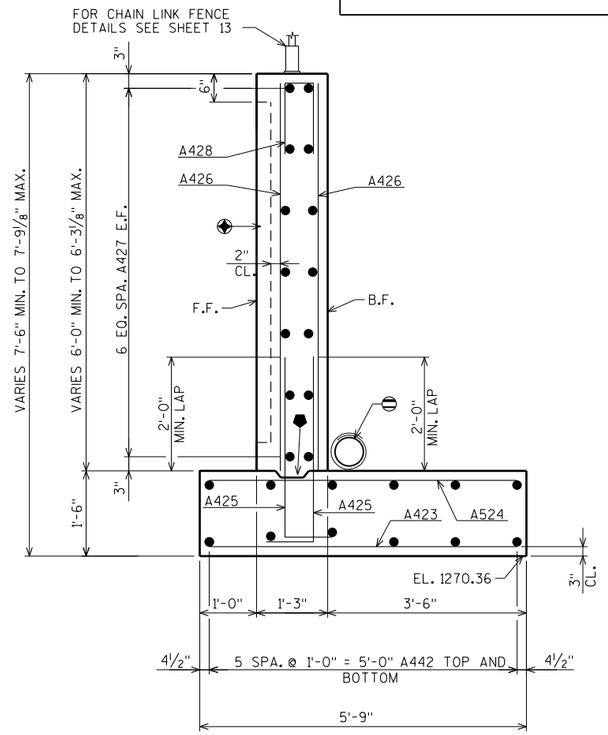
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STATE PROJECT NUMBER

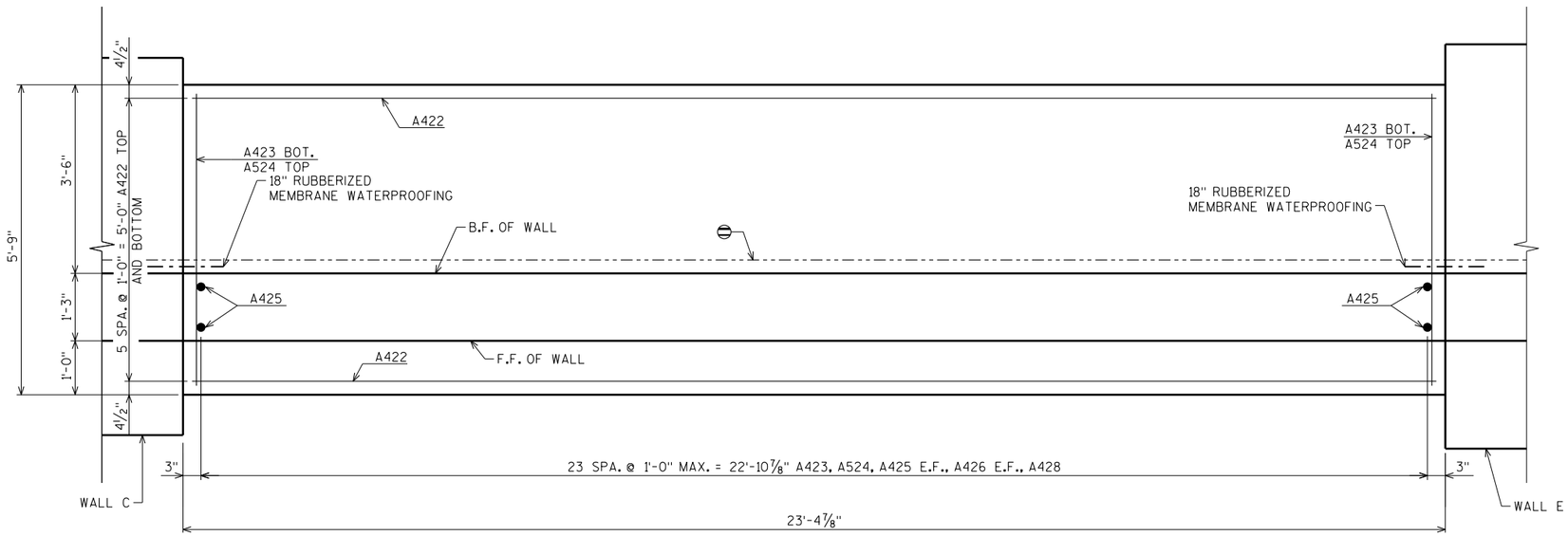
1610-00-76



ELEVATION - WALL D



TYPICAL SECTION THRU WALL D



FOOTING PLAN - WALL D

- LIMITS OF ARCHITECTURAL SURFACE TREATMENT. SEE SHEET 3 FOR DETAILS.
- PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN. SEE DETAIL ON SHEET 2.
- CONST. JOINT FORMED BY SURFACED BEVELED 2" x 6".

⚠ DENOTES ℄ OF VERTICAL EXPANSION JOINT. SEE DETAIL ON SHEET 12.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-2-15

DRAWN BY JLB | PLANS CK'D. JCK

WALL D DETAILS

SHEET 9 OF 14
288

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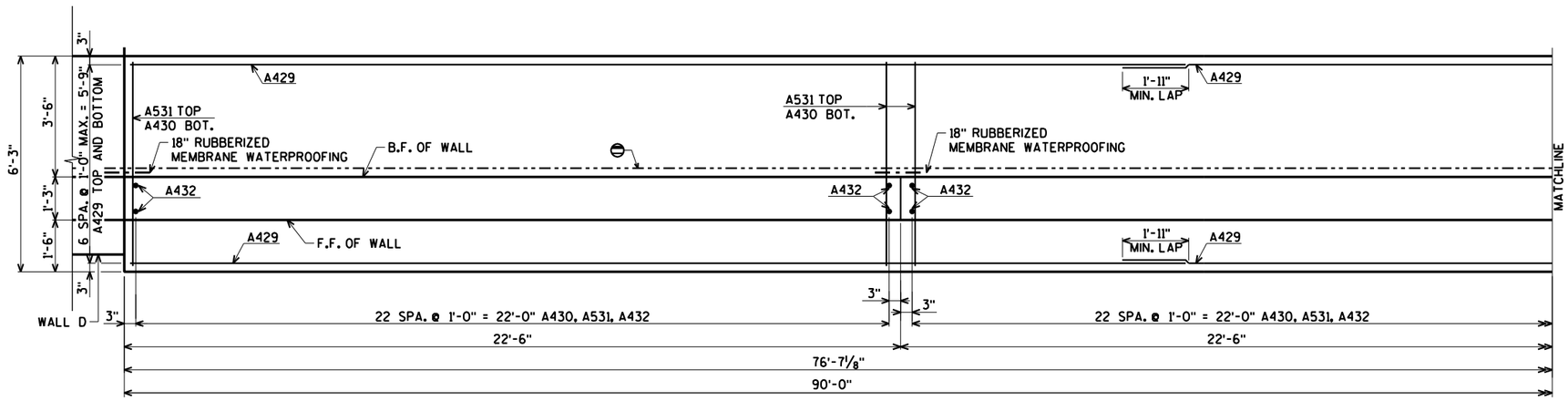
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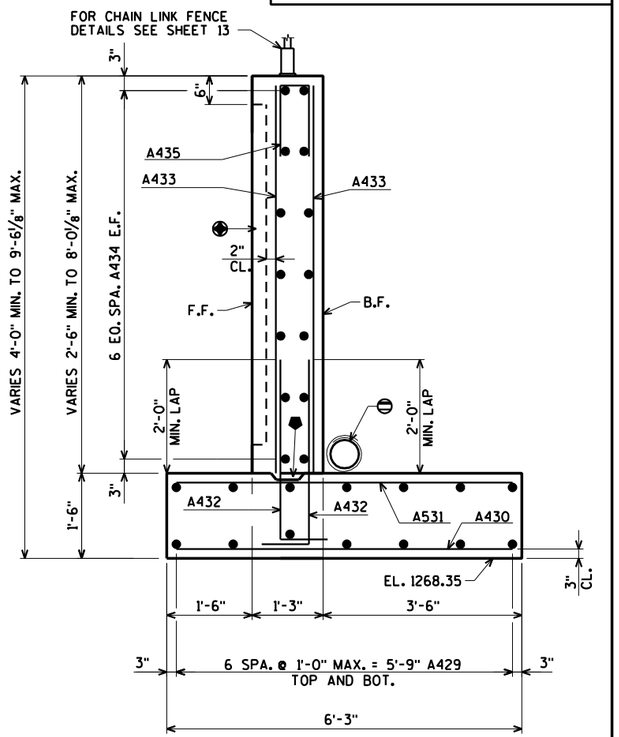
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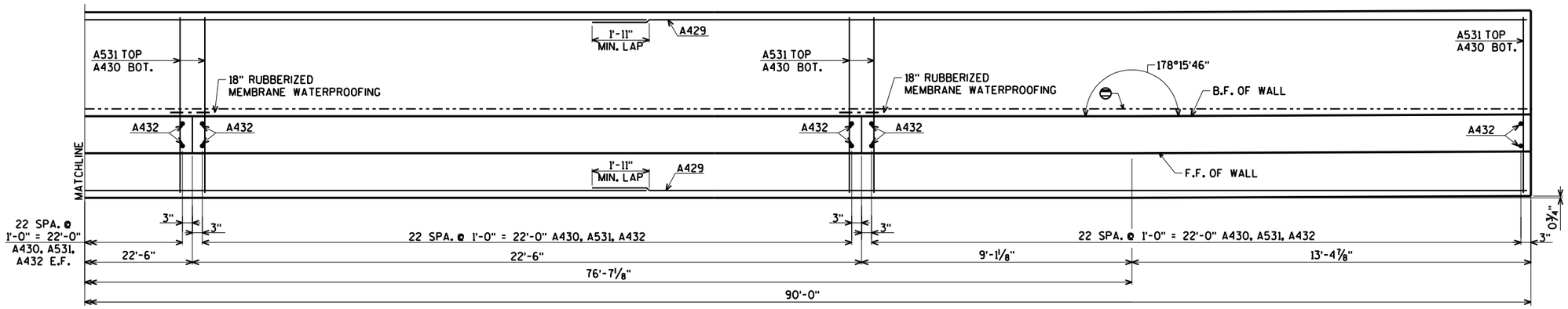
1610-00-76



FOOTING PLAN - WALL E



TYPICAL SECTION THRU WALL E



FOOTING PLAN - WALL E

LIMITS OF ARCHITECTURAL SURFACE TREATMENT. SEE SHEET 3 FOR DETAILS.

PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN. SEE DETAIL ON SHEET 2.

CONST. JOINT FORMED BY SURFACED BEVELED 2" x 6".

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-2-15

DRAWN BY JLB | PLANS CK'D. JCK

WALL E TYPICAL SECTION & FOOTING PLAN

SHEET 10 OF 14
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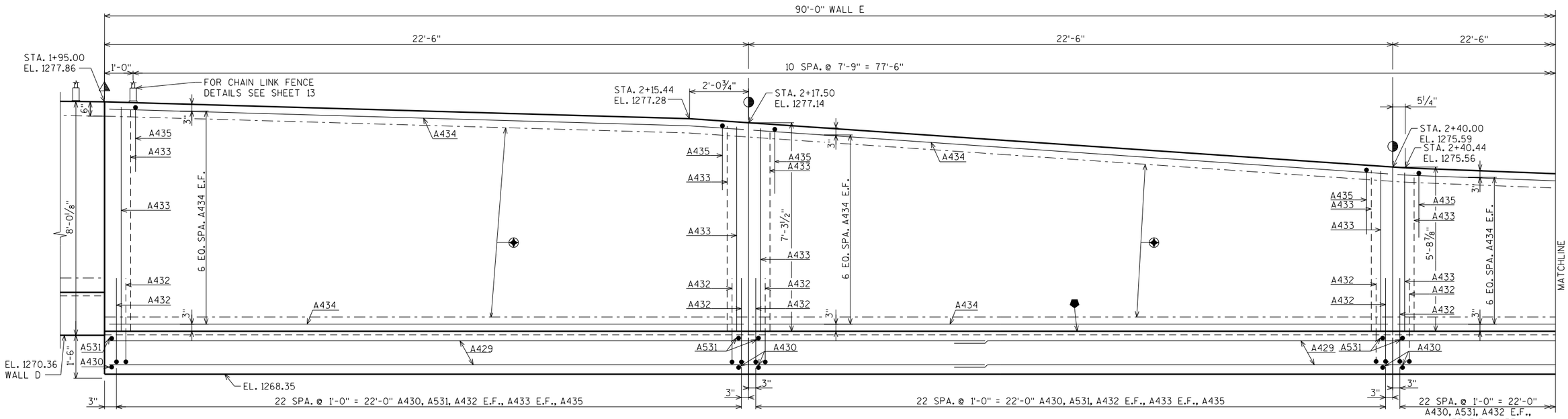
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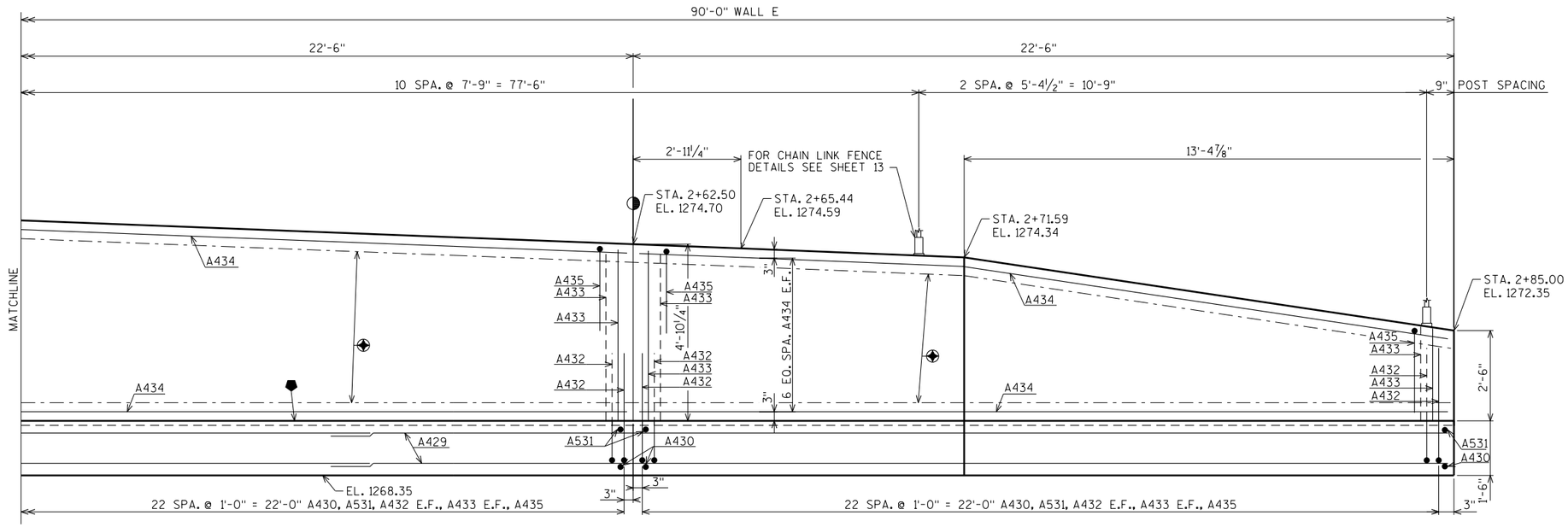
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STATE PROJECT NUMBER
1610-00-76



ELEVATION - WALL E



ELEVATION - WALL E

- ◈ LIMITS OF ARCHITECTURAL SURFACE TREATMENT. SEE SHEET 3 FOR DETAILS.
- ⬟ CONST. JOINT FORMED BY SURFACED BEVELED 2" x 6".
- ◑ DENOTES VERTICAL CONTRACTION JOINT. SEE DETAIL ON SHEET 12.
- ◭ DENOTES ℄ OF VERTICAL EXPANSION JOINT. SEE DETAIL ON SHEET 12.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-2-15

DRAWN BY JLB | PLANS CK'D. JCK

WALL E
ELEVATION

SHEET 11 OF 14
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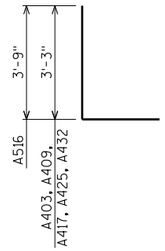
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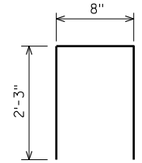
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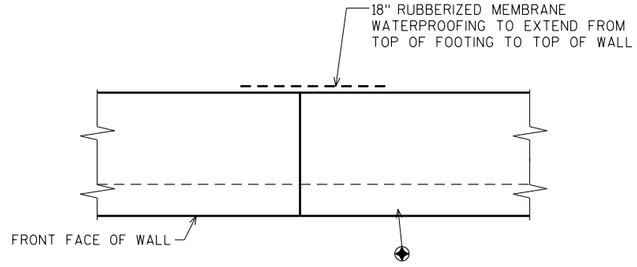
BILL OF BARS

	BAR NO.	COATED BAR	NO. REQ'D.	LENGTH	BENT BAR	BUNDLED	BAR SERIES	7,620 COATED 5,620# UNCOATED LOCATION
	A401		24	31-10				WALL A FOOTING LONGIT.
	A402		126	5-2				WALL A FOOTING TRANS.
	A403	X	126	3-10	X			WALL A STEM DOWEL
	A404	X	126	4-6			⊗	WALL A STEM VERT.
*	A405	X	36	20-4				WALL A STEM HORIZ.
	A406	X	63	5-0	X			WALL A STEM VERT. AT TOP
	A407		12	24-3				WALL B FOOTING LONGIT.
	A408		50	5-2				WALL B FOOTING TRANS.
	A409	X	50	3-10	X			WALL B STEM DOWEL
	A410	X	50	5-0			⊗	WALL B STEM VERT.
	A411	X	12	24-3				WALL B STEM HORIZ.
	A412	X	25	5-0	X			WALL B STEM VERT. AT TOP
	A413		28	43-4				WALL C FOOTING LONGIT.
	A414		87	6-8				WALL C FOOTING TRANS. BOT.
	A515		87	6-8				WALL C FOOTING TRANS. TOP
	A516	X	87	4-6	X			WALL C STEM DOWEL B.F.
	A417	X	87	3-10	X			WALL C STEM DOWEL F.F.
	A518	X	87	7-6			⊗	WALL C STEM VERT. B.F.
	A419	X	87	7-6			⊗	WALL C STEM VERT. F.F.
*	A420	X	42	28-0				WALL C STEM HORIZ.
	A421	X	87	5-0	X			WALL C STEM VERT. AT TOP
	A422		12	23-0				WALL D FOOTING LONGIT.
	A423		24	5-5				WALL D FOOTING TRANS. BOT.
	A524		24	5-5				WALL D FOOTING TRANS. TOP
	A425	X	48	3-10	X			WALL D STEM DOWEL
	A426	X	48	5-10				WALL D STEM VERT.
	A427	X	14	23-0				WALL D STEM HORIZ.
	A428	X	24	5-0	X			WALL D STEM VERT. AT TOP
	A429		56	31-2				WALL E FOOTING LONGIT.
	A430		92	5-11				WALL E FOOTING TRANS. BOT.
	A531		92	5-11				WALL E FOOTING TRANS. TOP
	A432	X	184	3-10	X			WALL E STEM DOWEL
	A433	X	184	5-0			⊗	WALL E STEM VERT.
*	A434	X	56	22-2				WALL E STEM HORIZ.
	A435	X	92	5-0	X			WALL E STEM VERT. AT TOP

* FIELD BEND AS REQUIRED

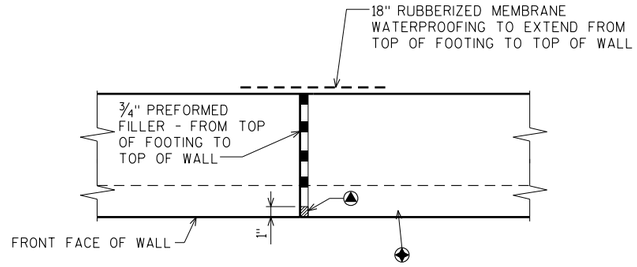






VERTICAL CONTRACTION JOINT DETAIL

DO NOT RUN ANY BAR STEEL THRU JOINT



VERTICAL EXPANSION JOINT DETAIL

DO NOT RUN ANY BAR STEEL THRU JOINT

▲ FILL WITH NON-STAINING GRAY SINGLE COMPONENT NON-BITUMINOUS JOINT SEALER. FROM 1'-0" BELOW GROUND LINE TO TOP OF WALL.

◆ LIMITS OF ARCHITECTURAL SURFACE TREATMENT. SEE SHEET 3 FOR DETAILS.

BAR SERIES TABLE

BAR MARK	NO REQ'D.	LENGTH
A404	2 SERIES OF 63	2'-3" TO 6'-9"
A410	2 SERIES OF 25	4'-3" TO 5'-9"
A518	1 SERIES OF 87	6'-10" TO 8'-2"
A419	1 SERIES OF 87	6'-10" TO 8'-2"
A433	2 SERIES OF 92	2'-3" TO 7'-9"

BUNDLE AND TAG EACH SERIES SEPARATELY.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-2-15

DRAWN BY JLB | PLANS CK'D. JCK

BILL OF BARS

SHEET 12 OF 14
291

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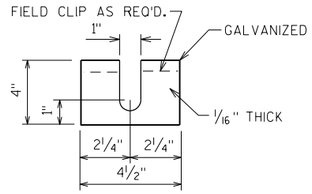
5/17/2022
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STATE PROJECT NUMBER

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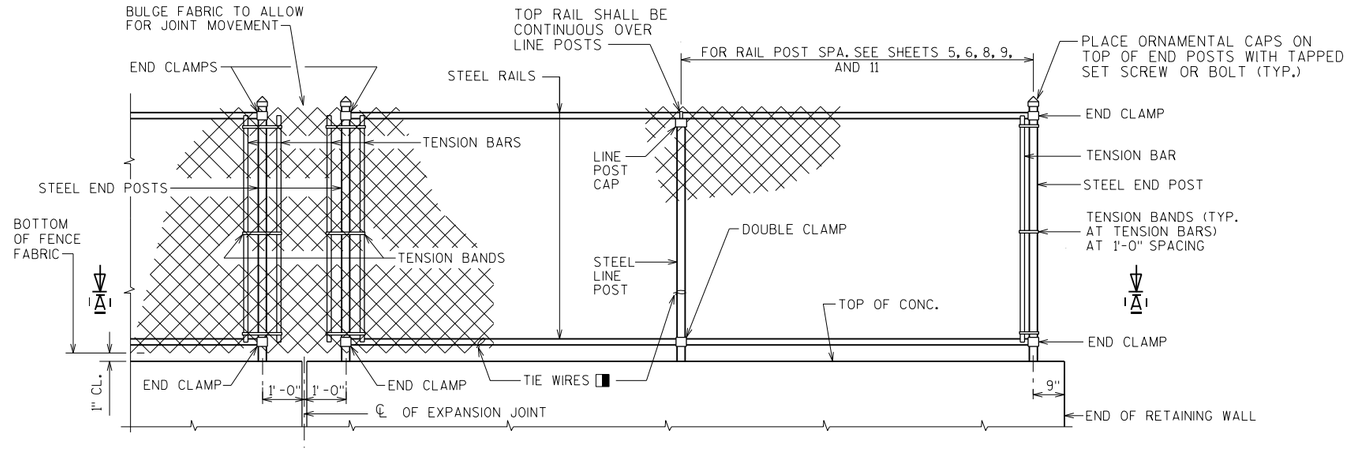
FENCE MEMBER SIZE & WEIGHT

STEEL FENCE MEMBER	OUTSIDE DIAMETER (INCHES)	WEIGHT (LB/FT)
RAILS	1.660	2.27
END POST	2.875	5.80
LINE POST	2.375	3.65
POST SLEEVE	4.000	9.12



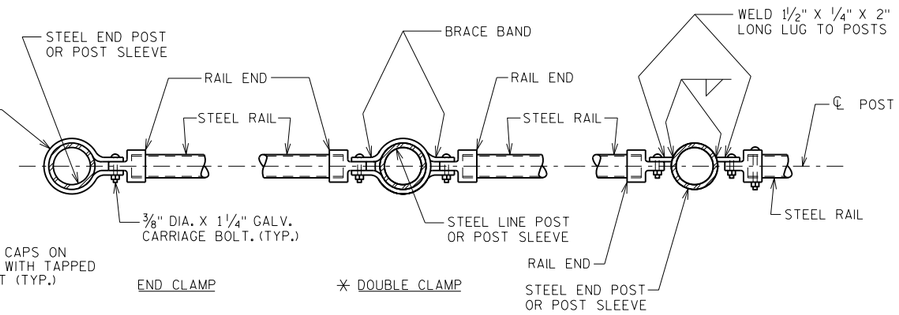
POST SHIM DETAILS

SHIMS REQUIRED ONLY WHEN END POSTS AND LINE POSTS ARE WELDED TO BASE PLATES. PROVIDE 4 SHIMS PER POST. USE WHERE REQUIRED FOR ALIGNMENT.



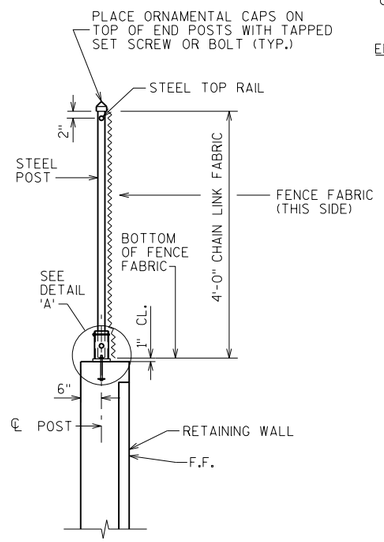
FENCE PART ELEVATION

VIEWING FABRIC SIDE

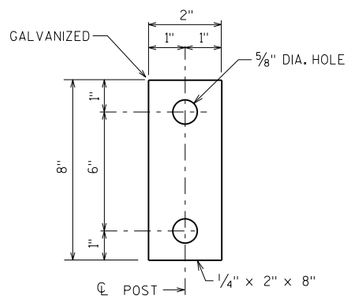


SECTION A-A

NOTE: PLACE ALL BOLT HEADS ON SIDE OF FENCE ADJACENT TO PEDESTRIANS

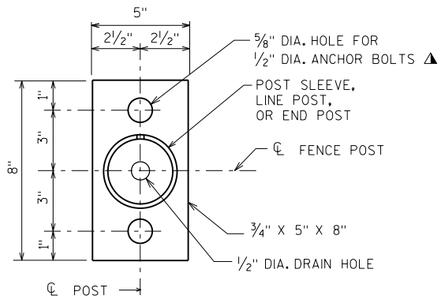


SECTION THRU FENCE

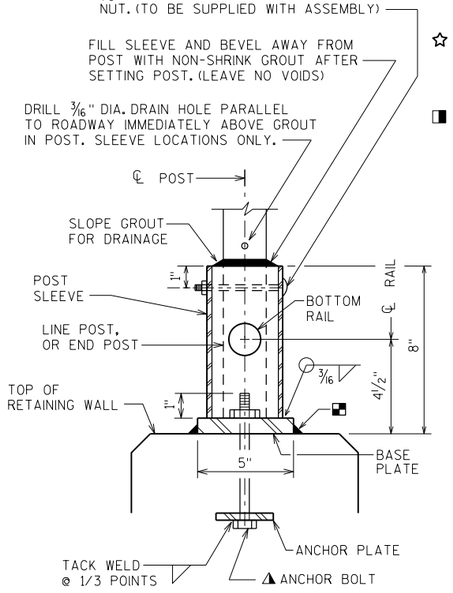


ANCHOR PLATE

☆NOTE: ANCHOR PLATE NOT REQUIRED WHEN ADHESIVE ANCHORS ARE USED.



BASE PLATE



DETAIL 'A'

UNIT SHALL BE GALVANIZED AFTER FABRICATION

NOTE: IN LIEU OF USING THE POST SLEEVE, THE FENCE POST MAY BE WELDED TO THE BASE PLATE.

NOTES

POSTS ARE TO BE SET VERTICAL.

ALL FENCE COMPONENTS SHALL BE GALVANIZED STEEL WITH A COLORED POLYMER COATING ON THE OUTSIDE.

FABRIC SHALL CONFORM TO ASTM F668, CLASS 2B. STEEL RAILS, POSTS AND POST SLEEVES SHALL CONFORM TO ASTM F1083, STANDARD WEIGHT PIPE (SCHEDULE 40). FITTINGS SHALL CONFORM TO ASTM F626. SEE THE "BRIDGE SPECIAL PROVISIONS" FOR ADDITIONAL DETAILS.

THE COLOR OF POLYMER-COATING FOR THIS STRUCTURE SHALL BE BLACK IN ACCORDANCE WITH ASTM F934.

THE BID ITEM SHALL BE "FENCE CHAIN LINK POLYMER-COATED 4-FT. R-2-15"

COMPLETE ANY REQUIRED WELDING OF COMPONENTS BEFORE GALVANIZING.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

BASE PLATES, ANCHOR PLATES AND SHIMS SHALL BE ASTM A709, GRADE 36.

ALL POST SPACINGS ARE MEASURED HORIZONTALLY ALONG THE C/L OF THE POST.

◪ CAULK AROUND PERIMETER OF BASE PLATE AND FILL PORTION OF SLOTTED HOLE AROUND ANCHOR BOLT IN SHIM WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

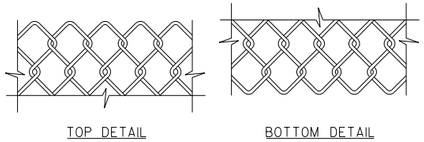
✳ ALTERNATE TO DOUBLE CLAMP: USE LINE RAIL CLAMP (BOULEVARD) OR 180° BRACE BAND, WHICH MAY BE USED WHEN THE POSTS ARE EITHER BOLTED TO THE POST SLEEVES OR DIRECTLY WELDED TO THE BASE PLATE.

◭ ANCHOR BOLTS, NUTS AND WASHERS SHALL BE EITHER STAINLESS STEEL OR ASTM 307. IF 307 IS USED, ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED.

☆ ALTERNATIVE ANCHORAGE: CONCRETE ADHESIVE ANCHORS 1/2-INCH. EMBED 7" IN CONCRETE. ADHESIVE ANCHORS SHALL CONFORM TO SECTIONS 502.2.12 AND 502.3.14 OF THE STANDARD SPECIFICATIONS.

◨ ATTACH FABRIC TO RAILS, AND TO POSTS WITHOUT TENSION BANDS, WITH TIE WIRES (ROUND, 9-GAGE) SPACED AT 1'-0".

MINIMUM LENGTH OF TOP RAIL BETWEEN SPLICES SHALL BE 20'-0". LOCATE SPLICES NEAR 1/4 POINT OF POST SPACING.



TOP DETAIL BOTTOM DETAIL

FENCE FABRIC

FENCE FABRIC WOVEN OF 9-GAGE WIRE IN 2" DIAMOND PATTERN MESH WITH BOTH THE TOP AND BOTTOM SELVAGES KNUCKLED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-2-15

DRAWN BY JLB | PLANS CK'D. JCK

CHAINLINK FENCE DETAILS

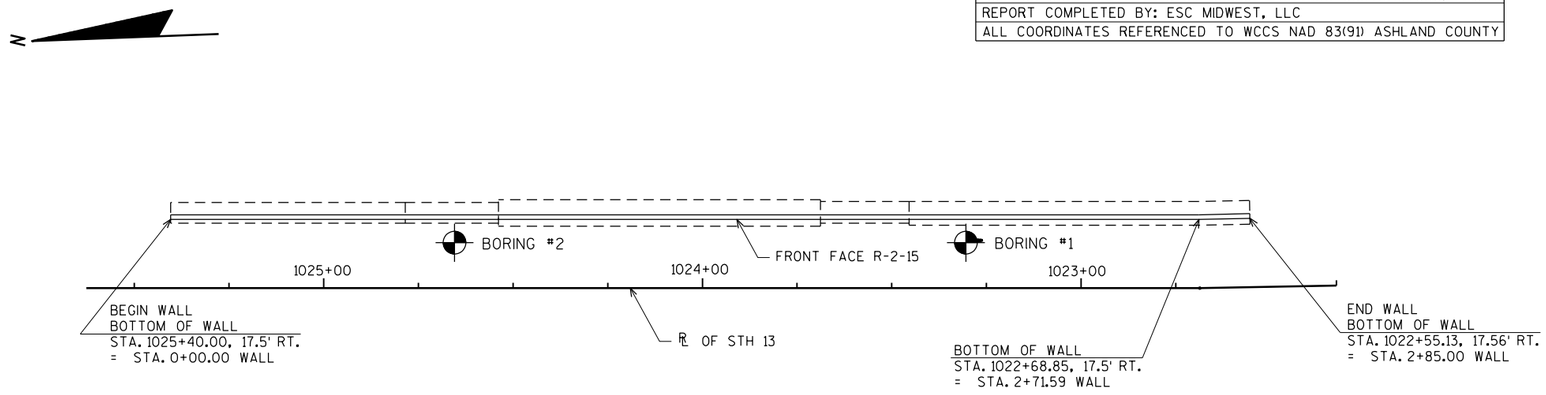
SHEET 13 OF 14
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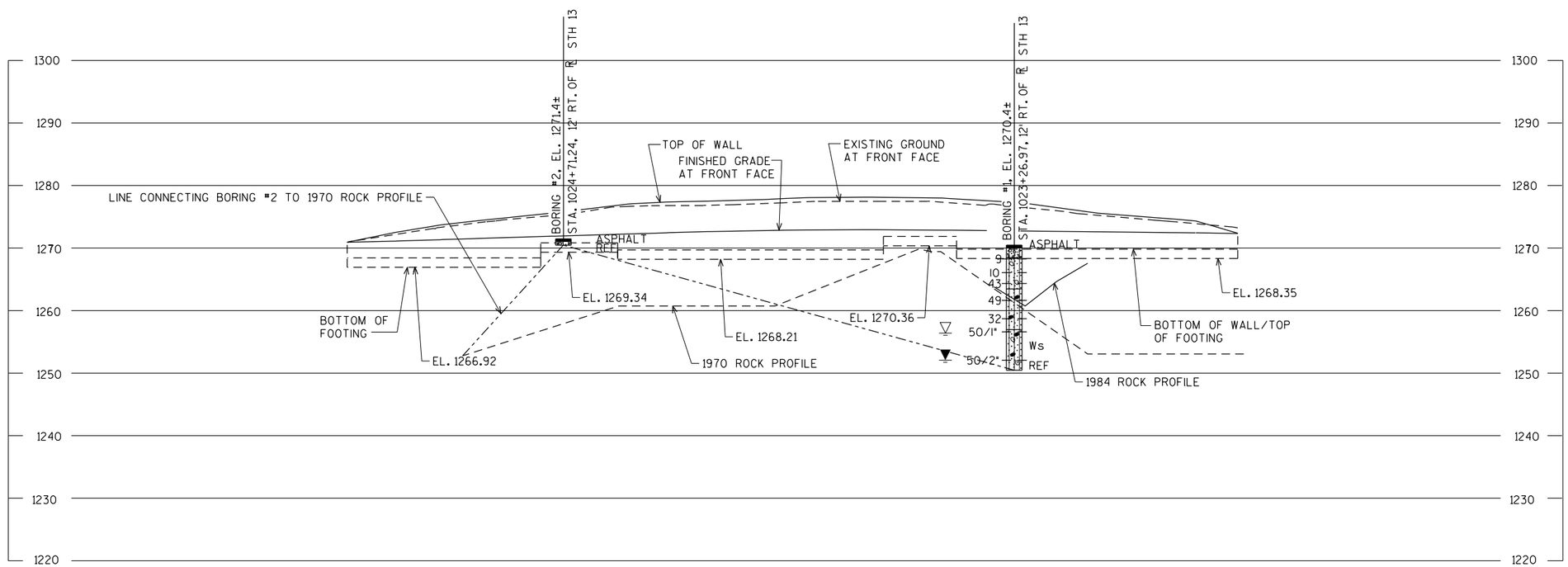
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BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
1	SEPTEMBER 8, 2020	226930.15	557373.12
2	SEPTEMBER 8, 2020	226785.95	557368.53
BORINGS COMPLETED BY: GEOTECHNICAL DRILLING CONTRACTORS, LLC			
REPORT COMPLETED BY: ESC MIDWEST, LLC			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) ASHLAND COUNTY			





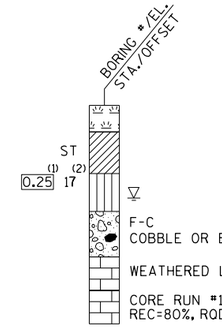
STATE PROJECT NUMBER

1610-00-76

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- AT TIME OF DRILLING
- END OF DRILLING
- AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-2-15

DRAWN BY CLP | PLANS CK'D. JCK

SUBSURFACE EXPLORATION

SHEET 14 OF 14
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2/21/2022
PENTABLE:BReau_shd_util.tbl

±±gyres±_Active±41±410835 STH 13 Mellen±Structures±CADD±Retaining Wall±final±410835 soils.dgn

EARTHWORK DATA - JEFFERSON AVE TO BAD RIVER BRIDGE

STATION	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
							1.00	1.30	
				NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
998+00	97.72	45.00	0.01	0	0	0	0	0	0
998+25	95.75	45.00	0.00	90	42	0	90	0	48
998+50	96.74	45.00	0.34	89	42	0	179	0	95
998+75	104.34	45.00	0.21	93	42	0	272	0	146
998+86	105.64	45.00	0.14	44	19	0	316	0	171
999+00	126.99	45.00	0.10	58	23	0	374	0	206
999+25	130.51	45.00	0.04	119	42	0	493	0	283
999+50	131.33	45.00	0.44	121	42	0	614	0	362
999+75	139.81	45.00	0.00	126	42	0	740	0	446
999+79	138.64	45.00	0.51	20	6	0	760	0	460
1000+00	140.05	45.00	0.00	109	35	0	869	0	534
1000+05	140.46	45.00	0.00	25	8	0	894	0	551
1000+25	143.84	45.00	0.00	106	34	0	1,000	0	623
1000+50	128.97	45.00	0.07	126	42	0	1,126	0	707
1000+75	121.35	45.00	0.57	116	42	0	1,242	0	781
1000+89	120.33	45.00	0.00	64	24	0	1,306	0	821
1001+00	120.71	45.00	0.00	48	18	0	1,354	0	851
1001+25	113.28	45.00	0.00	108	42	0	1,462	0	917
1001+50	111.18	45.00	1.29	104	42	1	1,566	1	978
1001+75	110.69	45.00	0.46	103	42	1	1,669	3	1,037
1002+00	90.20	45.00	0.00	93	42	0	1,762	3	1,088
1002+25	91.00	45.00	0.00	84	42	0	1,846	3	1,130
1002+50	84.49	45.00	0.00	81	42	0	1,927	3	1,169
1002+75	97.45	45.00	3.25	84	42	2	2,011	5	1,209
1003+00	113.35	45.00	4.49	98	42	4	2,109	10	1,260
1003+25	113.49	45.00	4.34	105	42	4	2,214	16	1,317
1003+50	139.83	45.00	3.25	117	42	4	2,331	21	1,387
1003+60	164.96	45.00	2.32	54	16	1	2,385	22	1,424
1003+75	158.75	45.00	0.00	93	26	1	2,478	23	1,490
1003+83	165.79	45.00	0.00	51	14	0	2,529	23	1,527
1004+00	163.16	45.00	0.00	101	28	0	2,630	23	1,600
1004+25	167.88	45.00	0.00	153	42	0	2,783	23	1,711
1004+37	177.34	45.00	0.00	76	20	0	2,859	23	1,767
1004+50	176.12	45.00	0.00	86	22	0	2,945	23	1,831
1004+75	161.98	45.00	0.00	157	42	0	3,102	23	1,946
1005+00	161.72	45.00	0.08	150	42	0	3,252	23	2,054
1005+25	157.50	45.00	0.10	148	42	0	3,400	23	2,160
1005+39	157.62	45.00	0.24	79	22	0	3,479	23	2,217
1005+50	155.53	45.00	0.06	67	19	0	3,546	23	2,265
1005+75	117.18	45.00	3.52	126	42	2	3,672	26	2,346
1006+00	117.46	45.00	4.35	109	42	4	3,781	31	2,408
1006+25	143.33	45.00	0.31	121	42	2	3,902	34	2,484
1006+30	141.65	45.00	0.53	26	8	0	3,928	34	2,502
1006+50	135.39	45.00	1.76	103	33	1	4,031	35	2,571
1006+75	119.31	45.00	0.24	118	42	1	4,149	36	2,646
1007+00	124.03	45.00	0.20	113	42	0	4,262	36	2,717
1007+25	134.46	45.00	0.19	120	42	0	4,382	36	2,795
1007+50	147.37	45.00	0.11	130	42	0	4,512	36	2,883
1007+75	160.56	45.00	0.02	143	42	0	4,655	36	2,984
1008+00	167.98	45.00	0.00	152	42	0	4,807	36	3,094
1008+25	181.88	45.00	0.00	162	42	0	4,969	36	3,214
1008+50	181.71	45.00	0.00	168	42	0	5,137	36	3,340
1008+75	156.88	45.00	0.63	157	42	0	5,294	36	3,455
1009+00	144.01	45.00	0.00	139	42	0	5,433	36	3,552
1009+13	133.04	45.00	0.00	65	21	0	5,498	36	3,596
1009+20	129.11	45.00	0.00	33	11	0	5,531	36	3,618
1009+25	123.61	45.00	0.00	26	9	0	5,557	36	3,635
1009+32	118.65	45.00	0.00	30	11	0	5,587	36	3,654
1009+50	82.11	45.00	4.42	68	31	2	5,655	39	3,688
1009+65	61.14	45.00	12.88	39	24	5	5,694	46	3,697

EARTHWORK DATA - BAD RIVER BRDIGE TO LAYMAN DR

STATION	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
							1.00	1.30	
				NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
1010+37	0.00	45.00	179.02	0	0	0	0	0	0
1010+50	0.00	45.00	158.74	0	21	81	0	105	-126
1010+75	0.00	45.00	236.81	0	42	183	0	343	-406
1011+00	0.00	45.00	296.37	0	42	247	0	664	-769
1011+25	0.00	45.00	244.27	0	42	250	0	989	-1,136
1011+50	0.00	45.00	253.04	0	42	230	0	1,288	-1,477
1011+75	0.00	45.00	216.53	0	42	217	0	1,570	-1,801
1012+00	0.00	45.00	130.32	0	42	161	0	1,780	-2,053
1012+25	9.08	45.00	18.66	4	42	69	4	1,869	-2,180
1012+50	52.54	45.00	0.46	29	42	9	33	1,881	-2,205
1012+75	99.84	45.00	0.02	71	42	0	104	1,881	-2,176
1013+00	132.44	45.00	15.10	108	42	7	212	1,890	-2,119
1013+25	146.33	45.00	0.07	129	42	7	341	1,899	-2,041
1013+50	170.49	45.00	1.76	147	42	1	488	1,901	-1,938
1013+75	208.35	45.00	0.00	175	42	1	663	1,902	-1,806
1014+00	224.90	45.00	0.00	201	42	0	864	1,902	-1,647
1014+25	188.15	45.00	0.00	191	42	0	1,055	1,902	-1,498
1014+50	174.03	45.00	0.00	168	42	0	1,223	1,902	-1,372
1014+75	159.52	45.00	0.03	154	42	0	1,377	1,902	-1,260
1014+94	157.18	45.00	0.00	108	31	0	1,485	1,902	-1,183
1014+97	156.74	45.00	0.00	19	6	0	1,504	1,902	-1,170
1015+00	156.71	45.00	0.00	19	5	0	1,523	1,902	-1,156
1015+25	159.24	45.00	0.00	146	42	0	1,669	1,902	-1,052
1015+50	159.61	45.00	0.42	148	42	0	1,817	1,902	-946
1015+75	155.77	45.00	0.97	146	42	1	1,963	1,903	-843
1016+00	169.86	45.00	0.00	151	42	0	2,114	1,903	-734
1016+17	181.82	45.00	0.00	112	29	0	2,226	1,903	-651
1016+25	183.35	45.00	0.00	53	13	0	2,279	1,903	-611
1016+50	161.16	45.00	0.00	159	42	0	2,438	1,903	-494
1016+62	160.49	45.00	0.00	73	20	0	2,511	1,903	-441
1016+75	163.95	45.00	0.00	77	21	0	2,588	1,903	-385
1017+00	158.28	45.00	0.00	149	42	0	2,737	1,903	-278
1017+25	159.81	45.00	0.00	147	42	0	2,884	1,903	-173
1017+50	167.12	45.00	0.00	151	42	0	3,035	1,903	-64
1017+75	156.96	45.00	0.00	150	42	0	3,185	1,903	44
1018+00	153.69	45.00	0.00	144	42	0	3,329	1,903	146
1018+25	133.17	45.00	1.90	133	42	1	3,462	1,905	236
1018+50	88.15	45.00	0.00	102	42	1	3,564	1,906	294
1018+75	89.05	45.00	0.00	82	42	0	3,646	1,906	334
1019+00	89.48	45.00	0.00	83	42	0	3,729	1,906	375
1019+25	149.26	45.00	0.00	111	42	0	3,840	1,906	444
1019+50	151.85	45.00	0.11	139	42	0	3,979	1,906	541
1019+75	163.36	45.00	0.00	146	42	0	4,125	1,906	645
1019+85	158.06	45.00	0.00	58	16	0	4,183	1,906	687
1020+00	146.86	45.00	0.00	86	25	0	4,269	1,906	748
1020+25	152.30	45.00	0.00	139	42	0	4,408	1,906	845
1020+35	153.80	45.00	0.00	57	17	0	4,465	1,906	885
1020+50	153.21	45.00	0.02	85	25	0	4,550	1,906	945
1020+75	150.96	45.00	0.11	141	42	0	4,691	1,906	1,044
1021+00	146.32	45.00	0.09	138	42	0	4,829	1,906	1,140
1021+25	145.82	45.00	0.20	135	42	0	4,964	1,906	1,233
1021+50	139.83	45.00	0.33	132	42	0	5,096	1,906	1,323
1021+75	132.19	45.00	1.25	126	42	1	5,222	1,907	1,406
1022+00	75.13	45.00	0.00	96	42	1	5,318	1,908	1,459
1022+25	76.69	45.00	0.00	70	42	0	5,388	1,908	1,487
1022+50	70.05	45.00	0.00	68	42	0	5,456	1,908	1,513
1022+69	133.72	45.00	6.37	70	31	2	5,526	1,911	1,549
1022+75	136.69	45.00	5.51	32	11	1	5,558	1,912	1,569
1023+00	145.69	45.00	3.48	131	42	4	5,689	1,918	1,653
1023+25	158.83	45.00	4.46	141	42	4	5,830	1,923	1,746

CONTINUED

EARTHWORK DATA - BAD RIVER BRDIGE TO LAYMAN DR

STATION	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
							1.00	1.30	
				NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
1023+50	161.24	45.00	4.39	148	42	4	5,978	1,928	1,847
1023+75	159.01	45.00	10.88	148	42	7	6,126	1,937	1,944
1024+00	169.39	45.00	0.00	152	42	5	6,278	1,944	2,048
1024+25	158.56	45.00	3.54	152	42	2	6,430	1,946	2,155
1024+50	156.42	45.00	3.90	146	42	3	6,576	1,950	2,255
1024+75	149.33	45.00	4.17	142	42	4	6,718	1,955	2,350
1025+00	137.51	45.00	4.11	133	42	4	6,851	1,960	2,436
1025+25	122.76	45.00	5.74	120	42	5	6,971	1,967	2,507
1025+50	66.70	45.00	0.00	88	42	3	7,059	1,971	2,549
1025+75	76.06	45.00	0.00	66	42	0	7,125	1,971	2,573
1025+83	75.56	45.00	0.00	21	13	0	7,146	1,971	2,581
1026+19	81.38	45.00	0.00	105	60	0	7,251	1,971	2,626

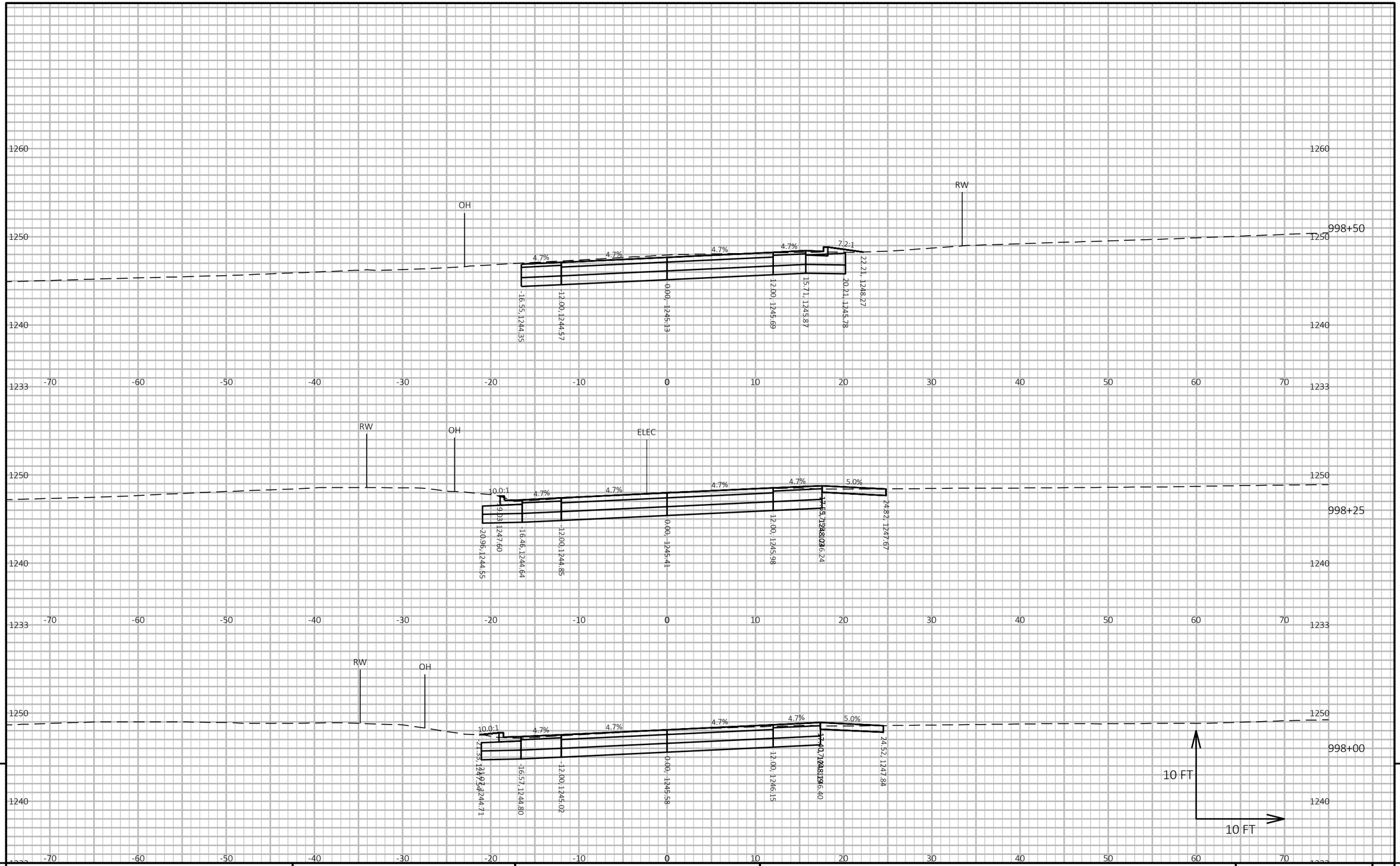
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PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	EARTHWORK DATA	SHEET 295	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\SHEETSPLAN\090101-EW.DWG
LAYOUT NAME - 02

PLOT DATE : 7/27/2022 12:56 PM PLOT BY : WOOLEVER, NATHAN PLOT NAME : PLOT SCALE : 1" = 1'



PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 296	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_JEFFERSON TO BRIDGE.DWG
LAYOUT NAME - 1

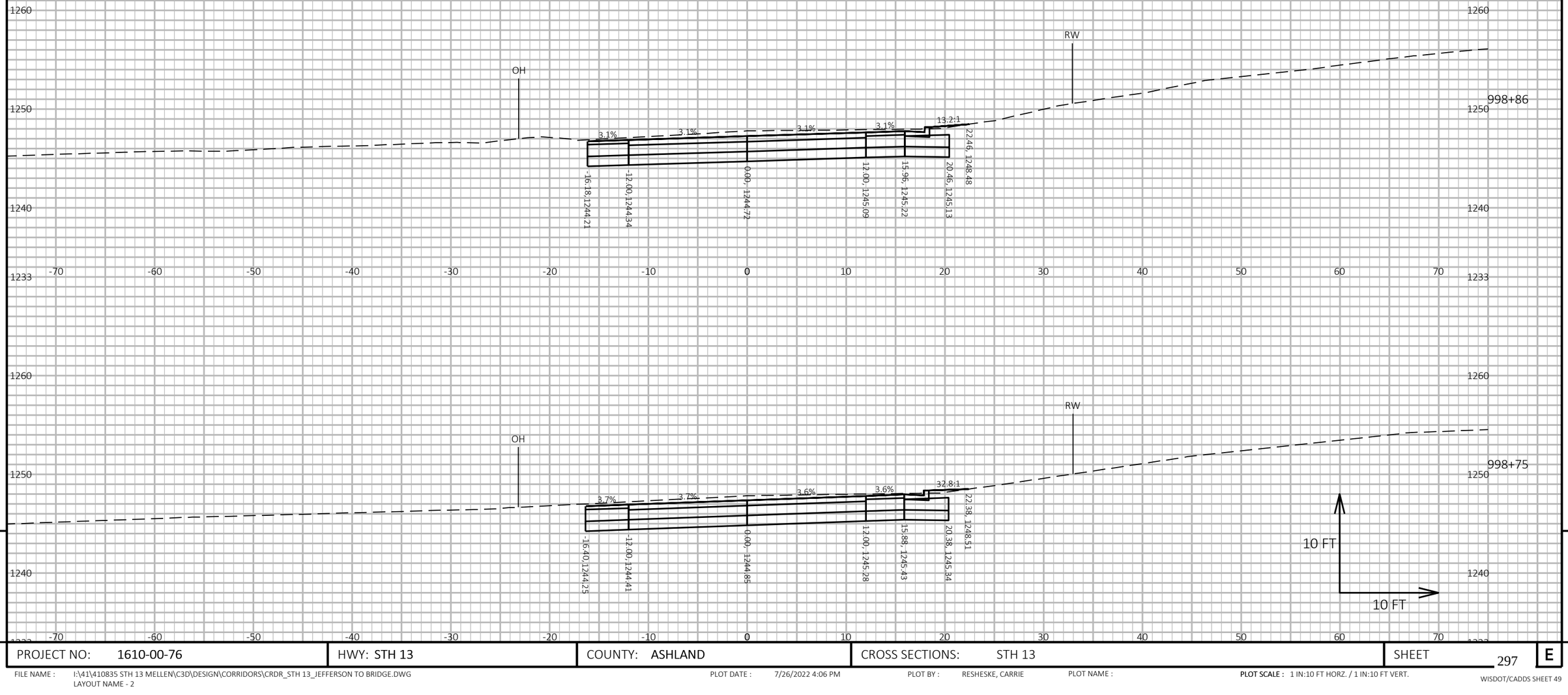
PLOT DATE : 7/26/2022 4:06 PM

PLOT BY : RESHESKE, CARRIE

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 297	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_JEFFERSON TO BRIDGE.DWG
LAYOUT NAME - 2

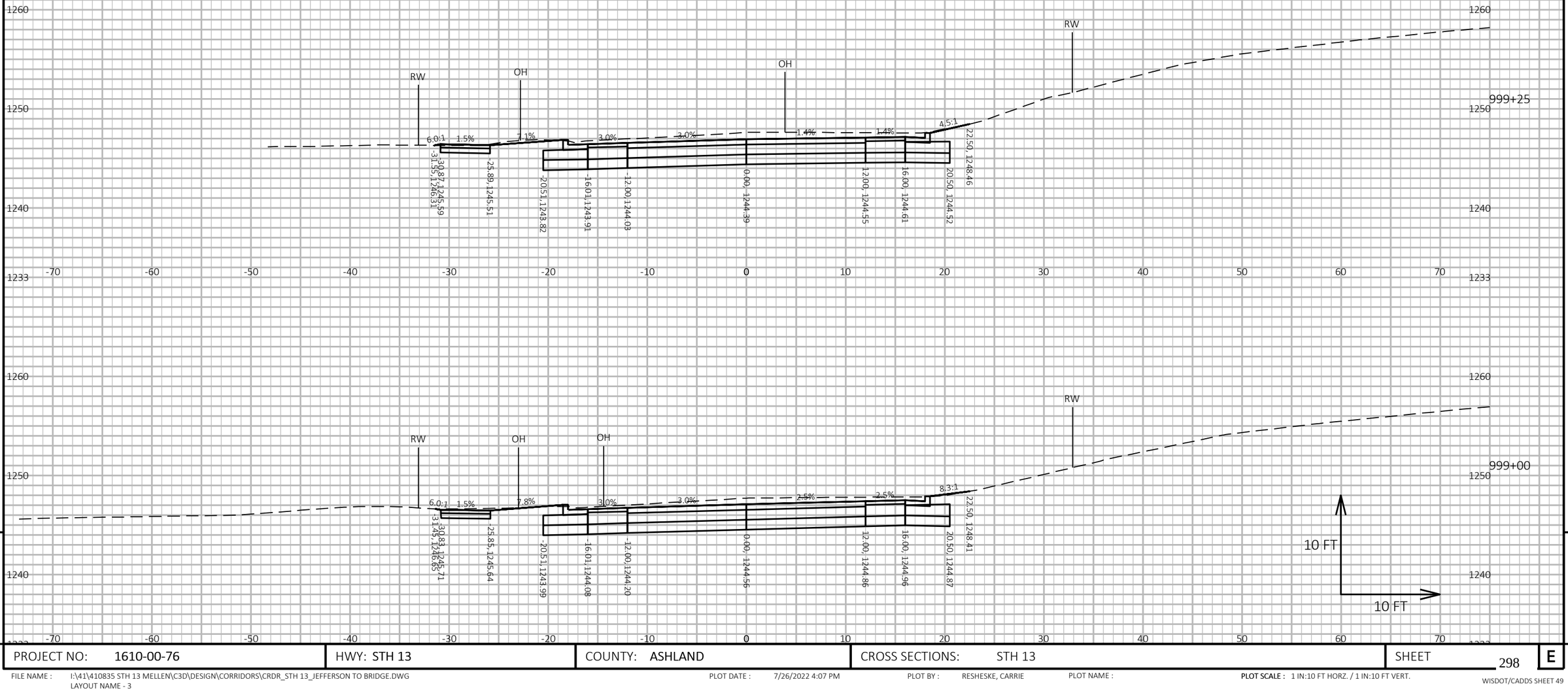
PLOT DATE : 7/26/2022 4:06 PM

PLOT BY : RESHESKE, CARRIE

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 298	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_JEFFERSON TO BRIDGE.DWG
LAYOUT NAME - 3

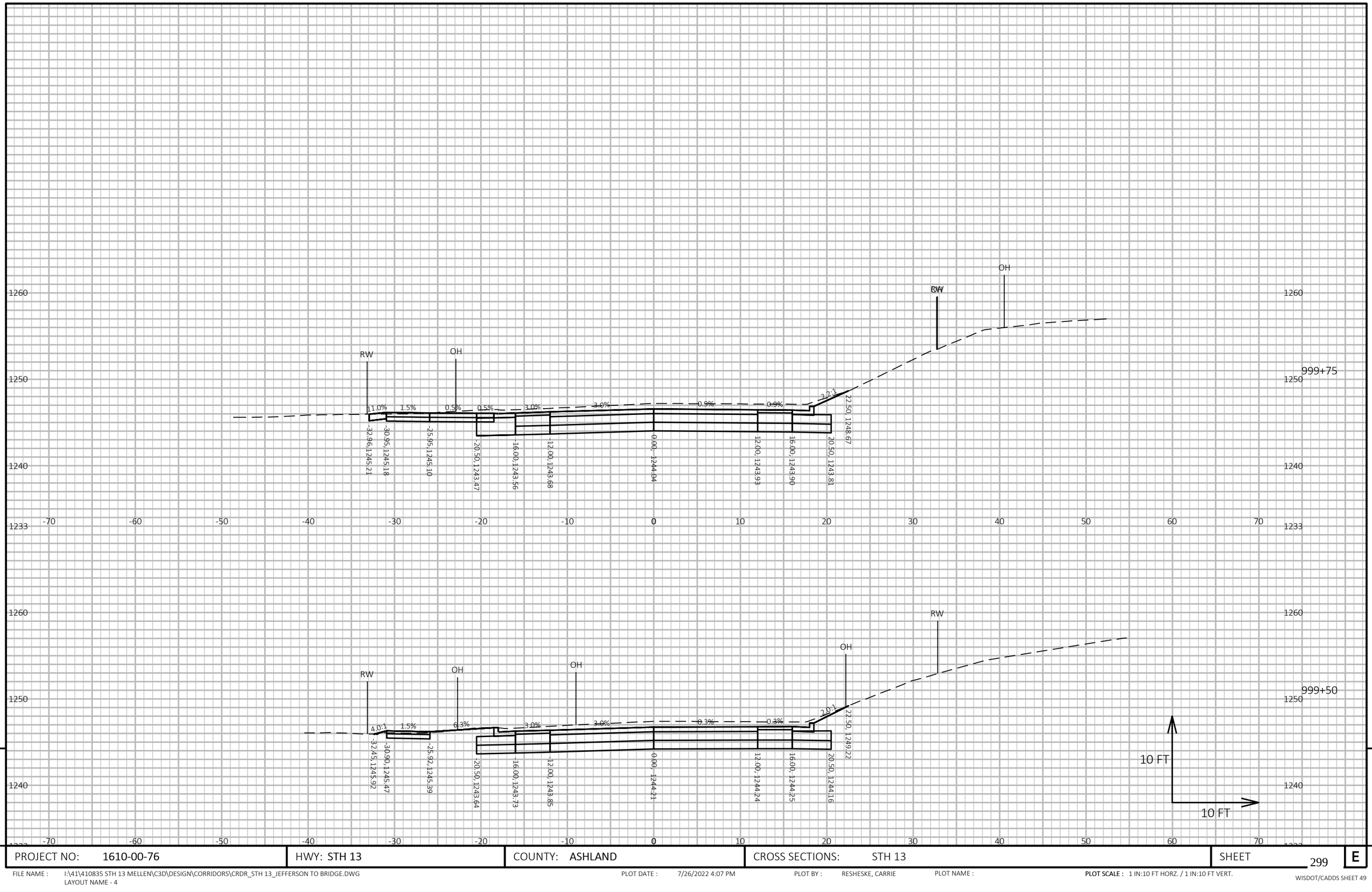
PLOT DATE : 7/26/2022 4:07 PM

PLOT BY : RESHESKE, CARRIE

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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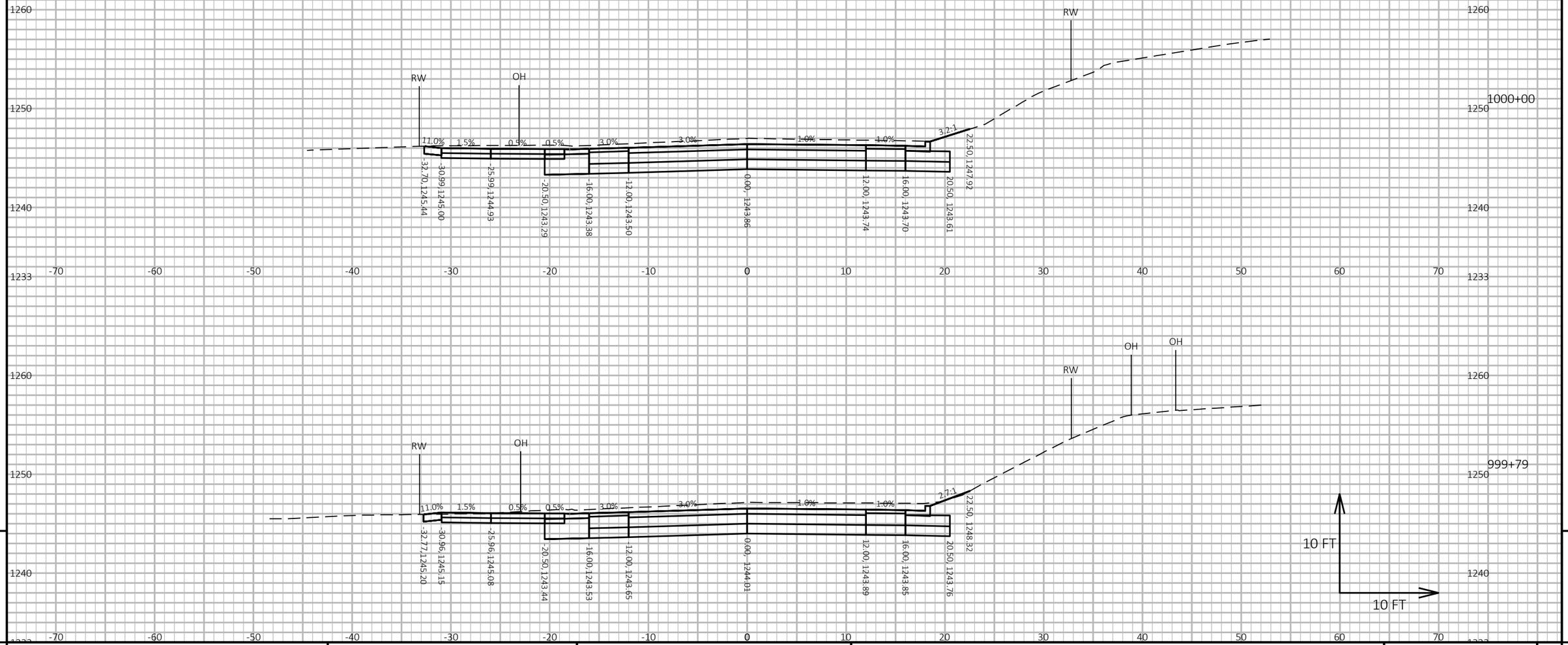
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PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 299	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_JEFFERSON TO BRIDGE.DWG
LAYOUT NAME - 4

PLOT DATE : 7/26/2022 4:07 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

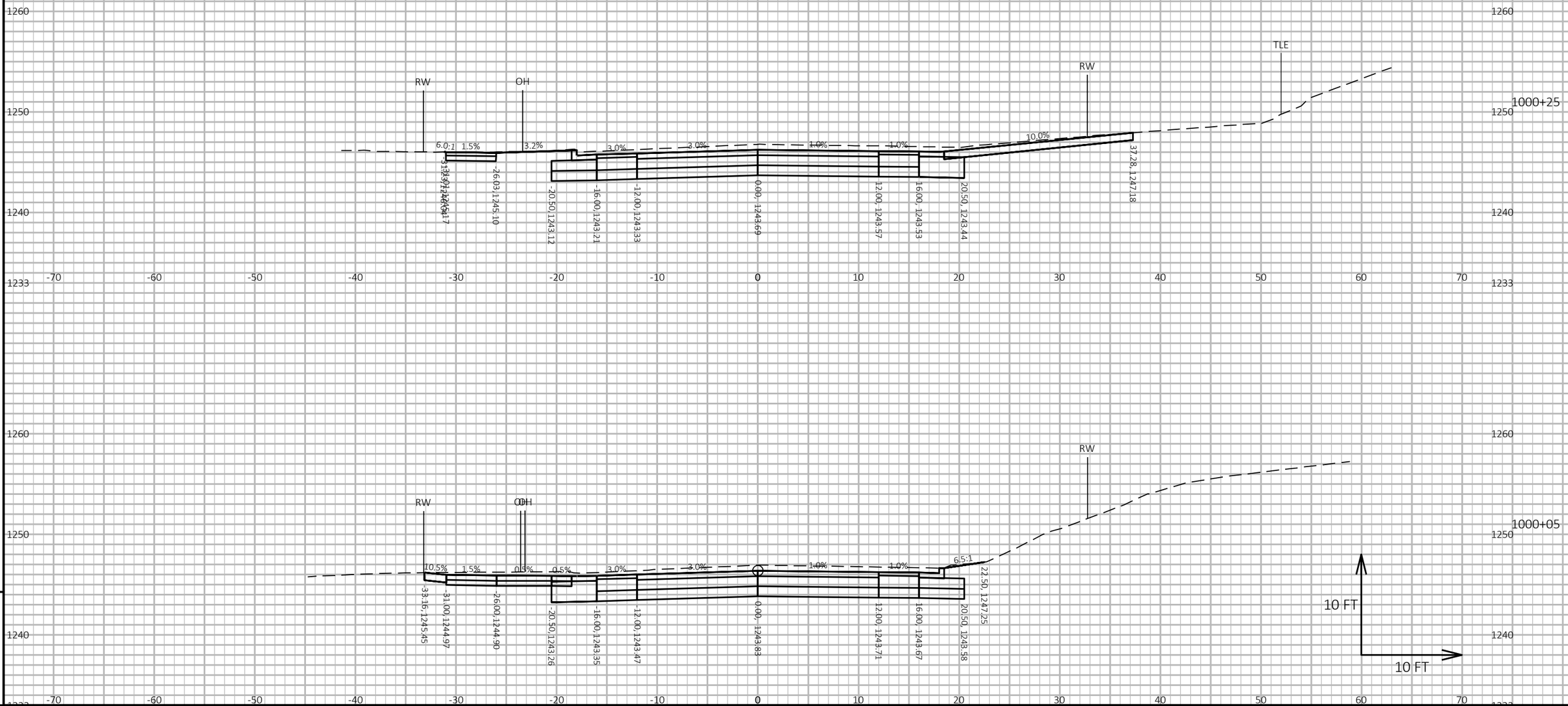


PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 300 E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_JEFFERSON TO BRIDGE.DWG
LAYOUT NAME - 5

PLOT DATE : 7/26/2022 4:07 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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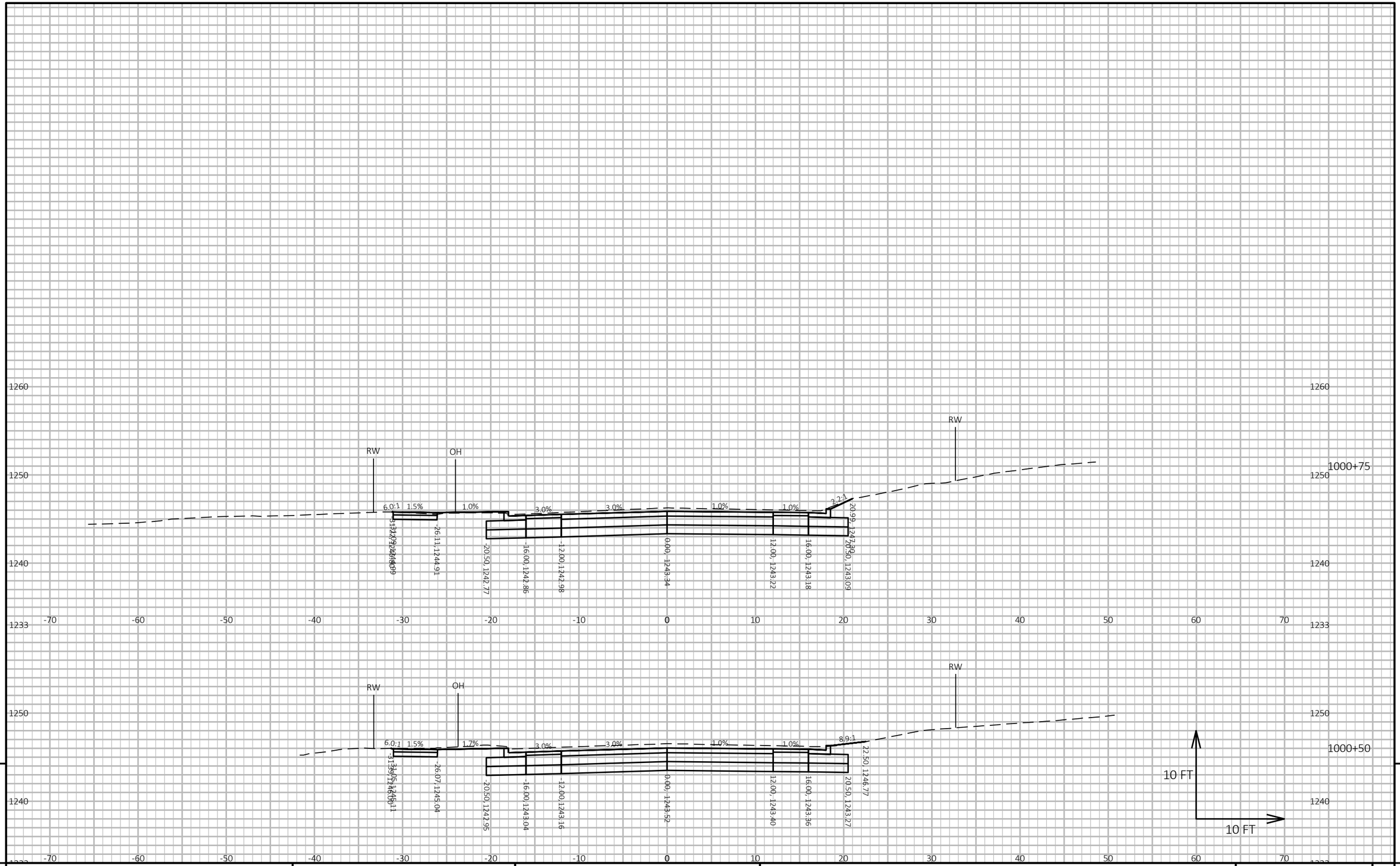
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PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 301	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_JEFFERSON TO BRIDGE.DWG
LAYOUT NAME - 6

PLOT DATE : 7/26/2022 4:07 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 302	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_JEFFERSON TO BRIDGE.DWG
LAYOUT NAME - 7

PLOT DATE : 7/26/2022 4:07 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



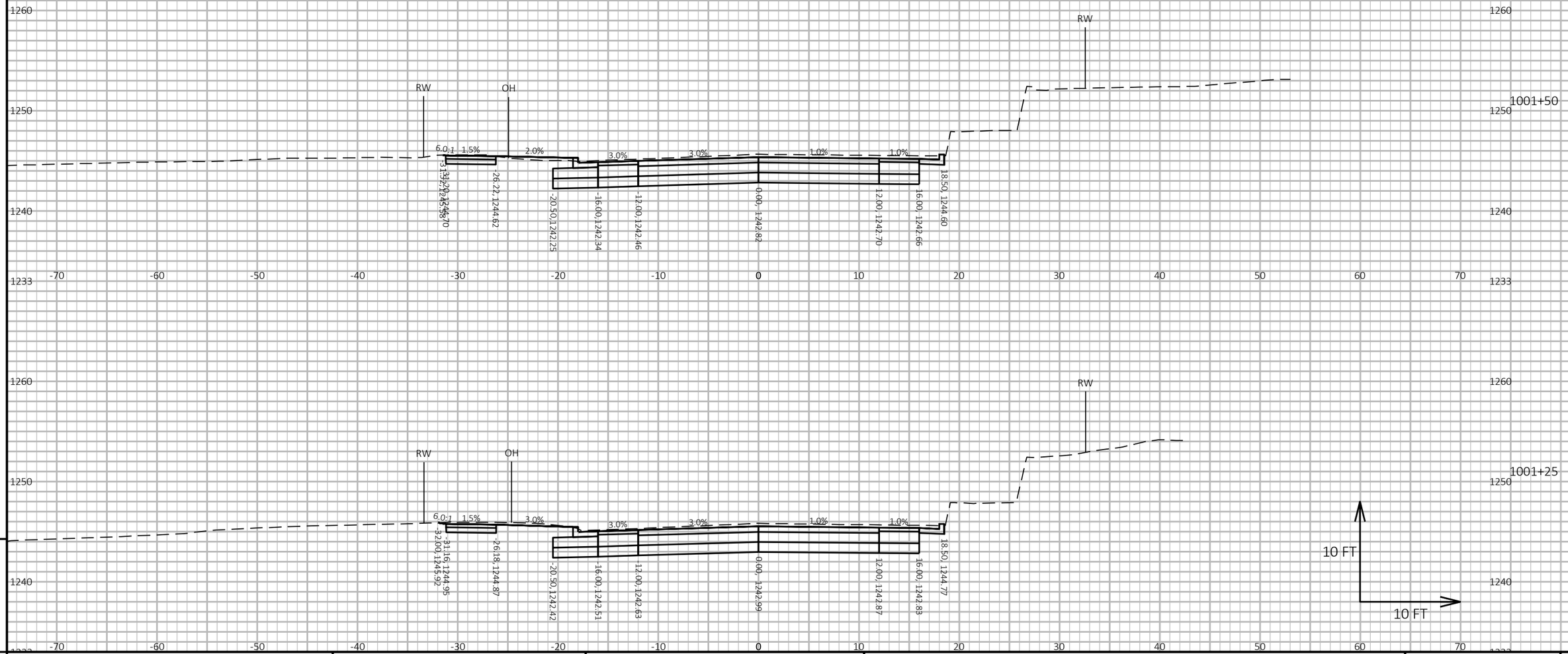
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PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 303	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_JEFFERSON TO BRIDGE.DWG
LAYOUT NAME - 8

PLOT DATE : 7/26/2022 4:07 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 304	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_JEFFERSON TO BRIDGE.DWG
LAYOUT NAME - 9

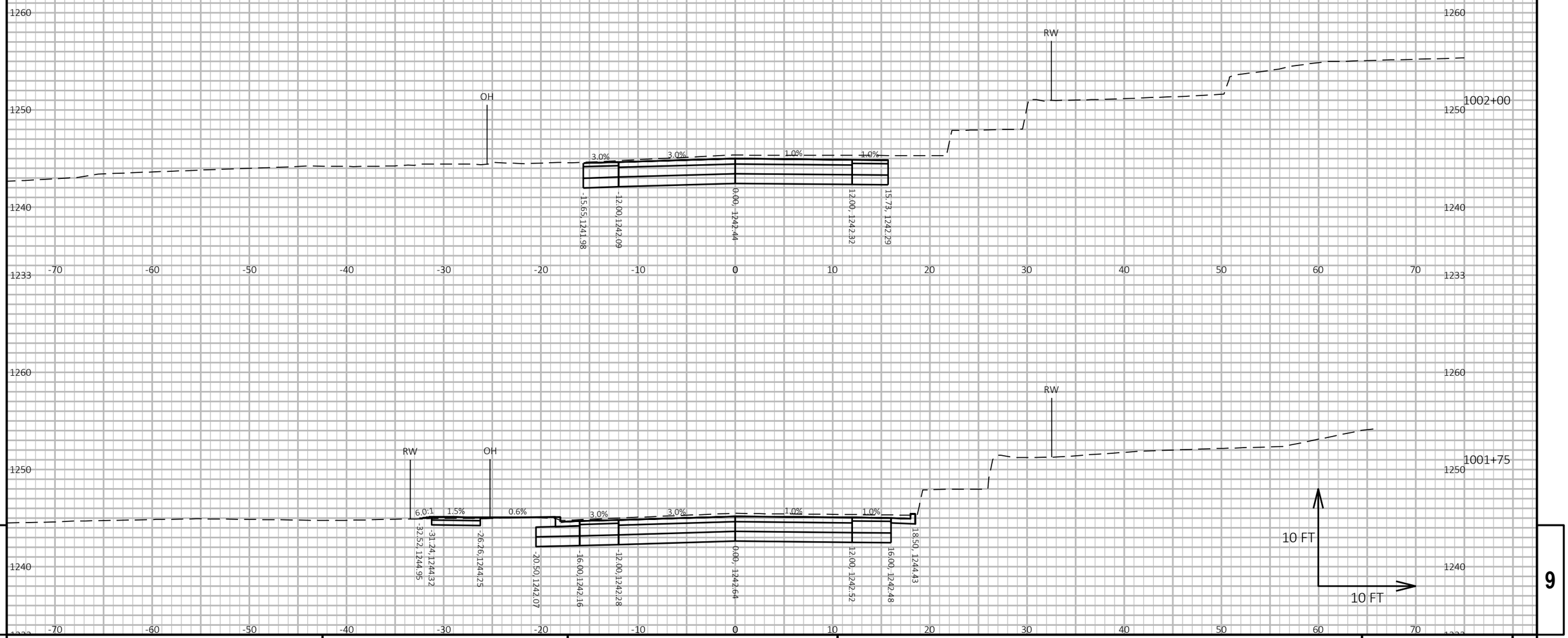
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PLOT BY : RESHESKE, CARRIE

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 305	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_JEFFERSON TO BRIDGE.DWG
LAYOUT NAME - 10

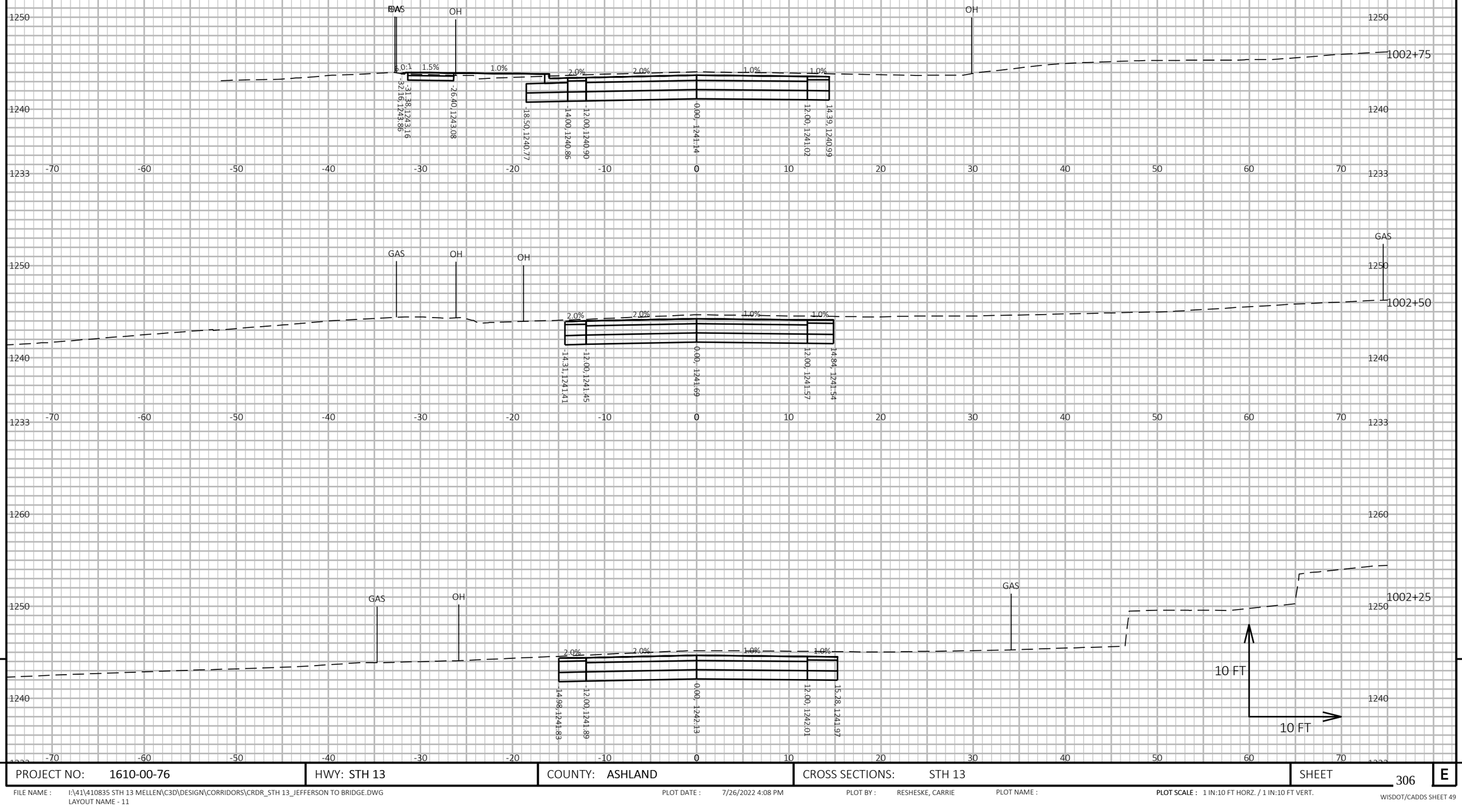
PLOT DATE : 7/26/2022 4:07 PM

PLOT BY : RESHESKE, CARRIE

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

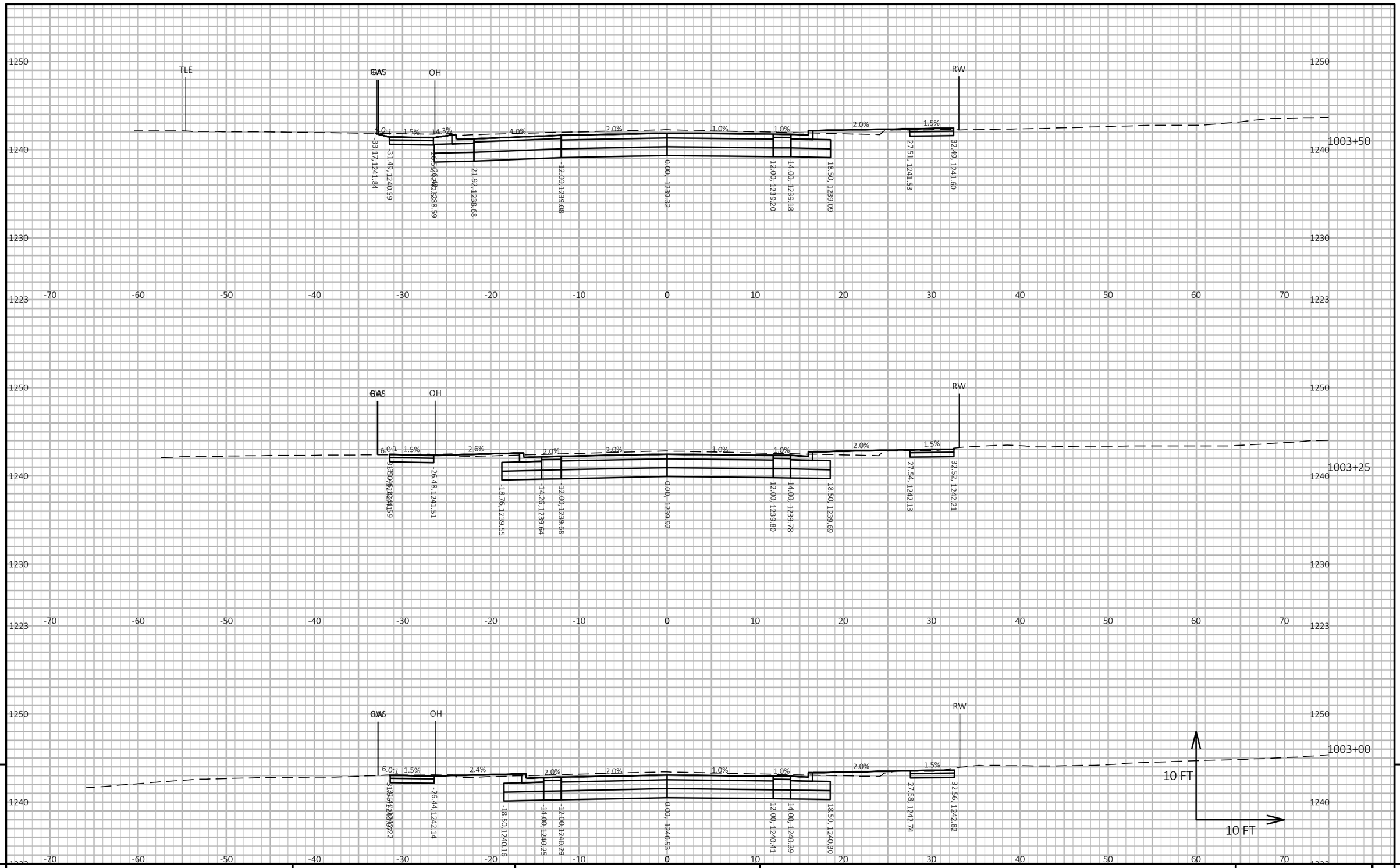
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PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 306	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_JEFFERSON TO BRIDGE.DWG
LAYOUT NAME - 11

PLOT DATE : 7/26/2022 4:08 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 307	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_JEFFERSON TO BRIDGE.DWG
LAYOUT NAME - 12

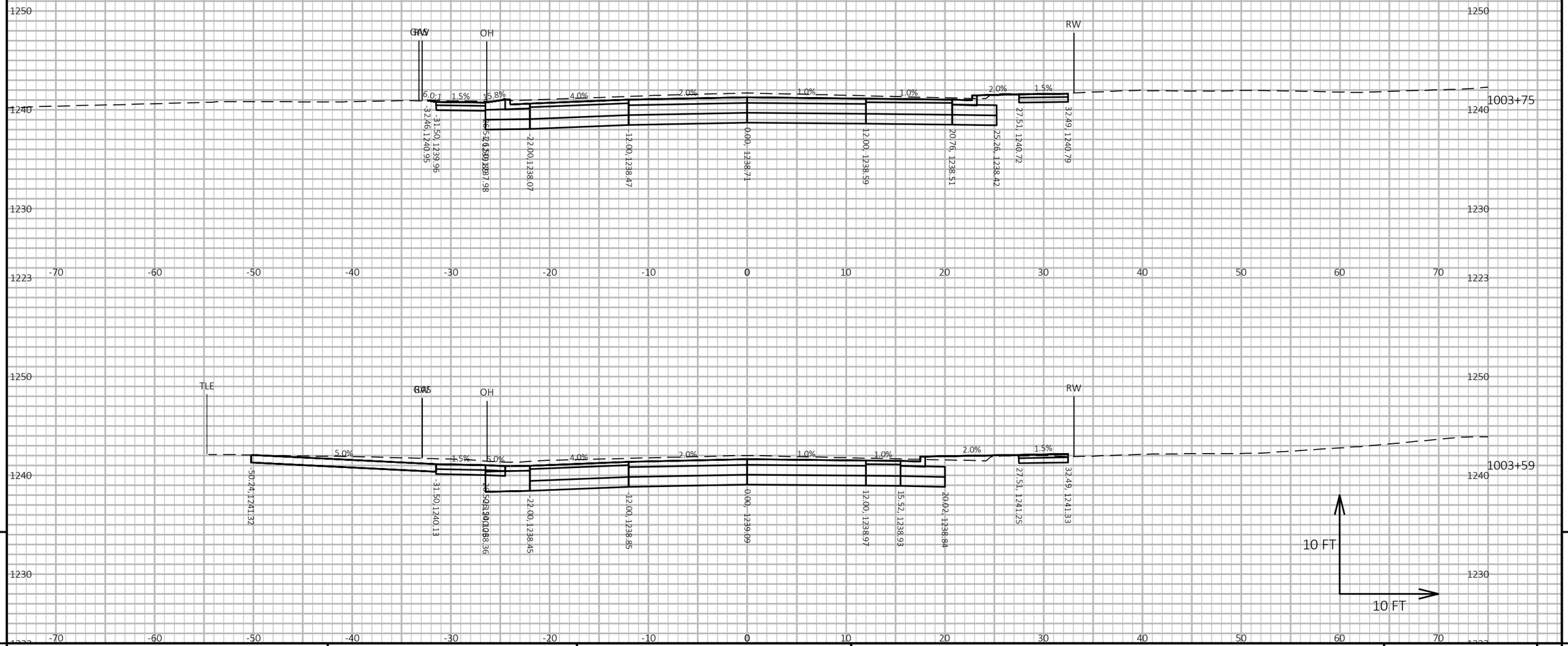
PLOT DATE : 7/26/2022 4:08 PM

PLOT BY : RESHESKE, CARRIE

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 308	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_JEFFERSON TO BRIDGE.DWG
LAYOUT NAME - 13

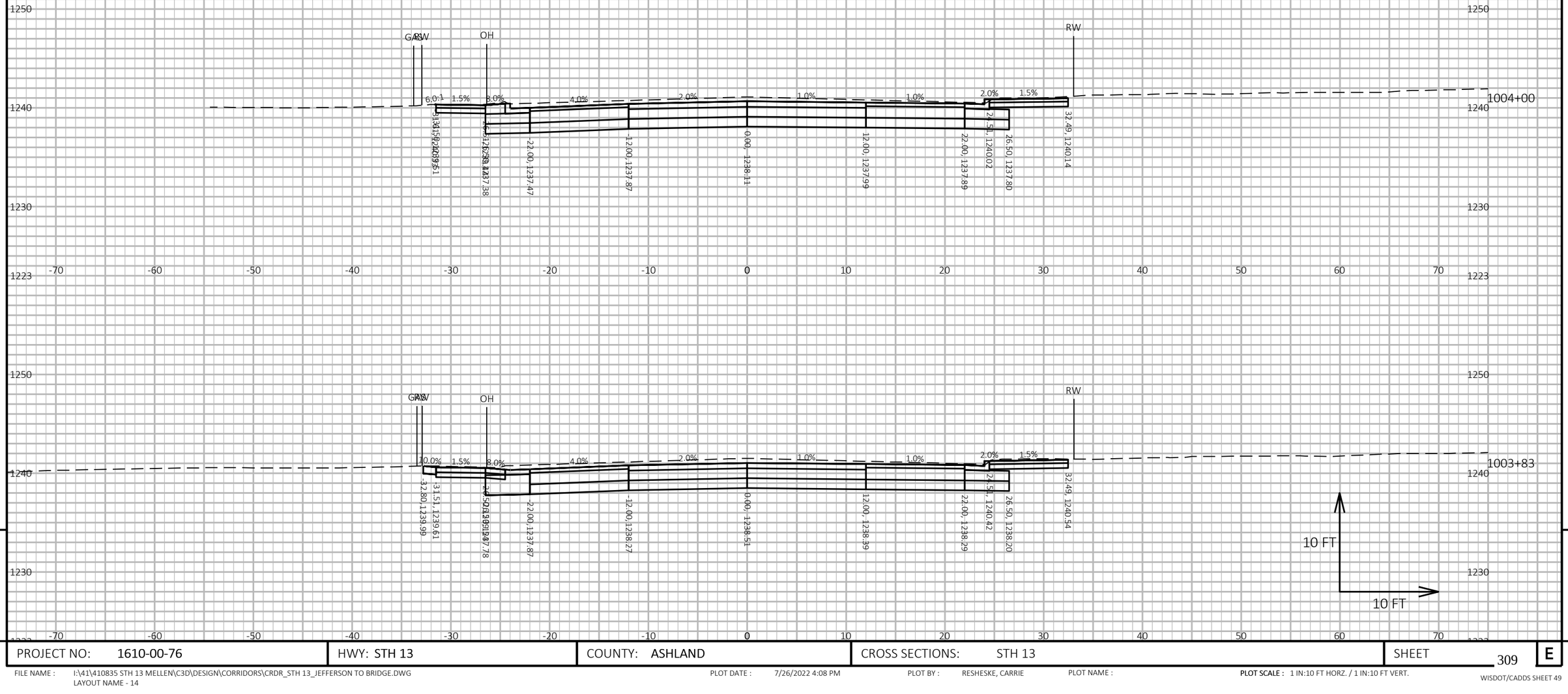
PLOT DATE : 7/26/2022 4:08 PM

PLOT BY : RESHESKE, CARRIE

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

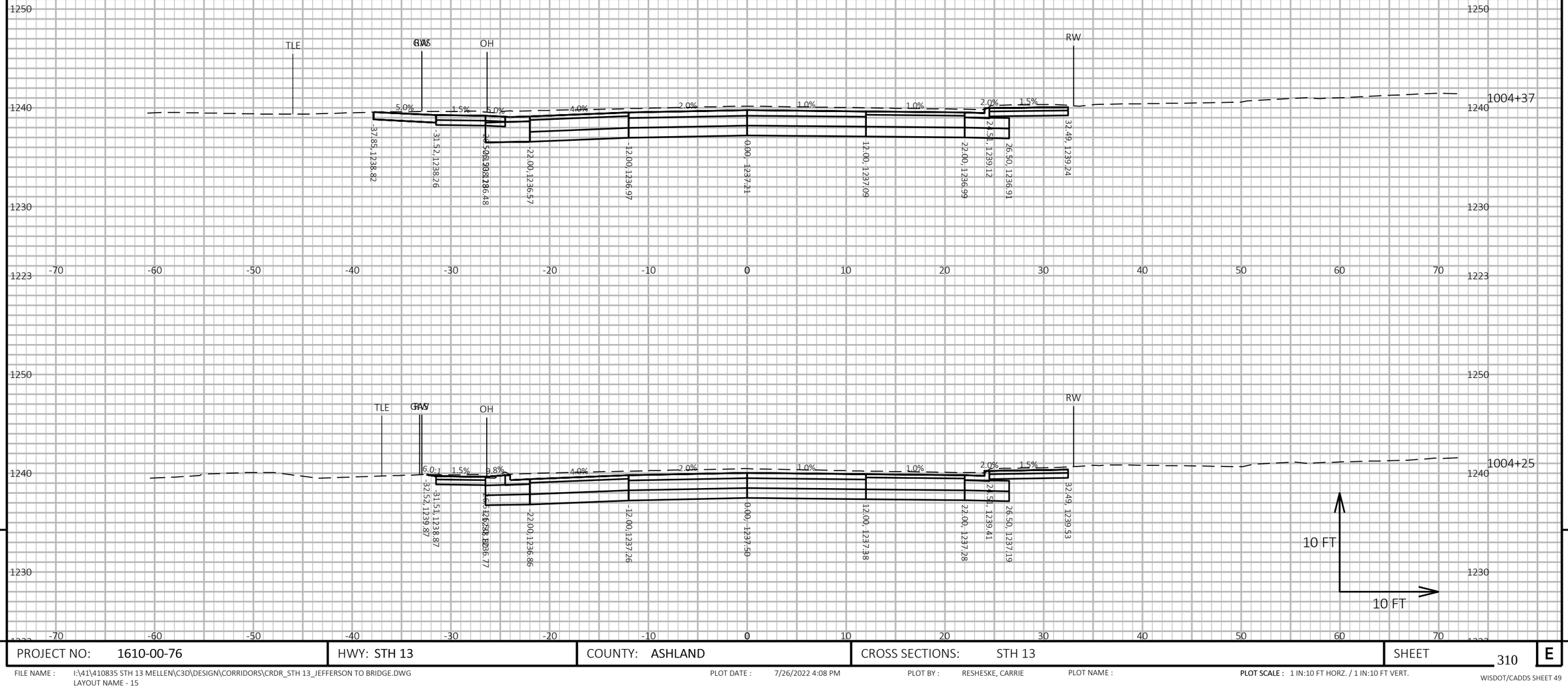
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PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 309	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_JEFFERSON TO BRIDGE.DWG
LAYOUT NAME - 14

PLOT DATE : 7/26/2022 4:08 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

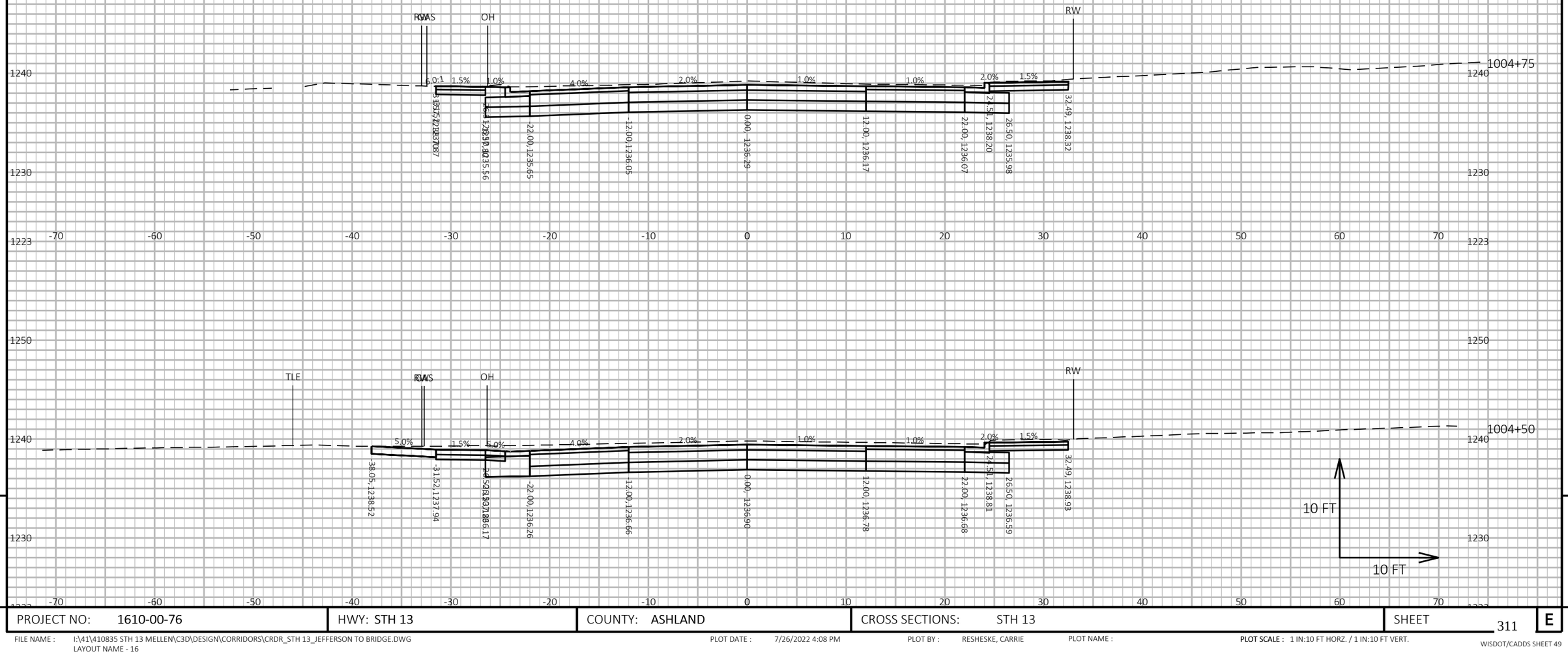
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PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 310	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_JEFFERSON TO BRIDGE.DWG
LAYOUT NAME - 15

PLOT DATE : 7/26/2022 4:08 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 311	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_JEFFERSON TO BRIDGE.DWG
LAYOUT NAME - 16

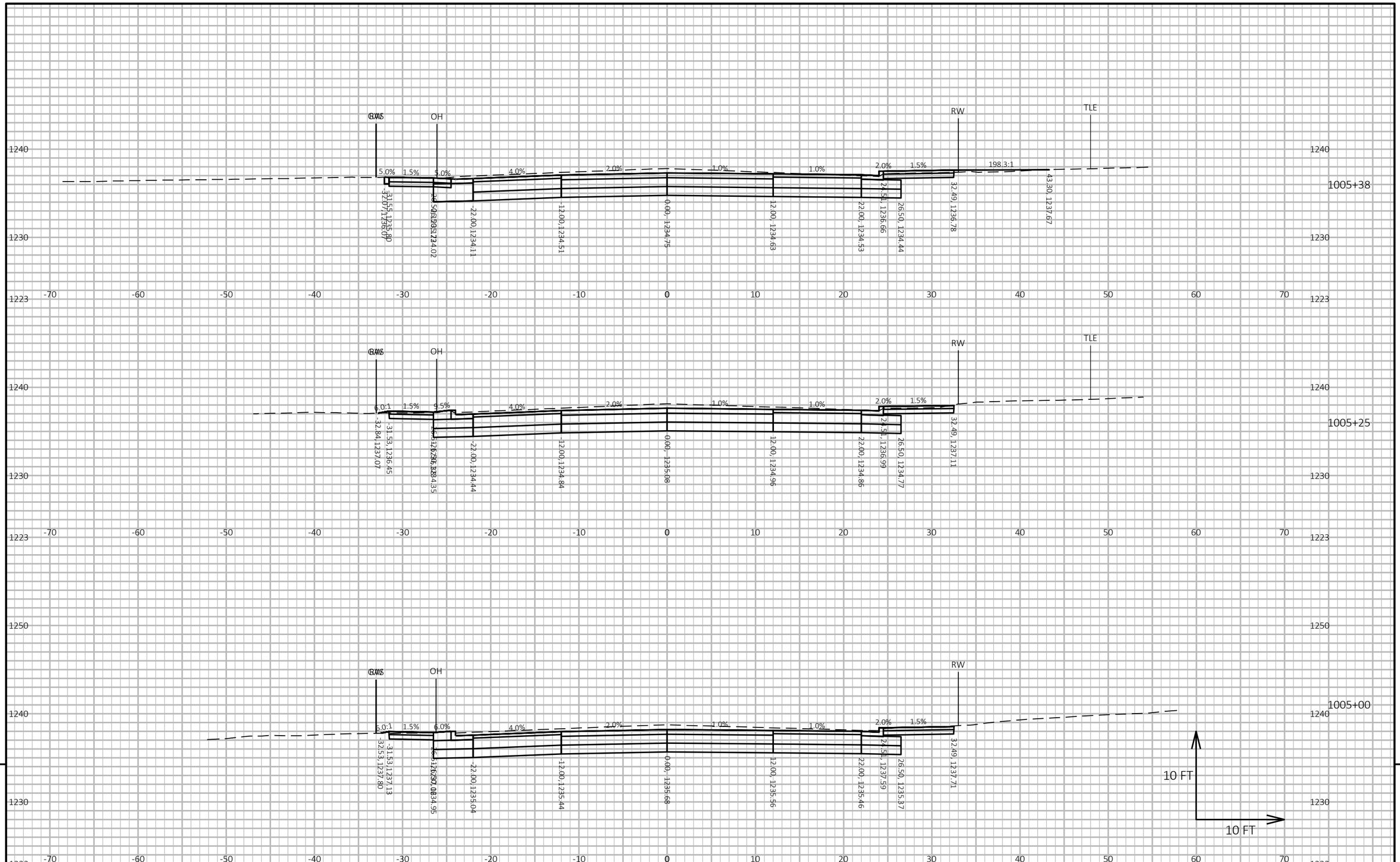
PLOT DATE : 7/26/2022 4:08 PM

PLOT BY : RESHESKE, CARRIE

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

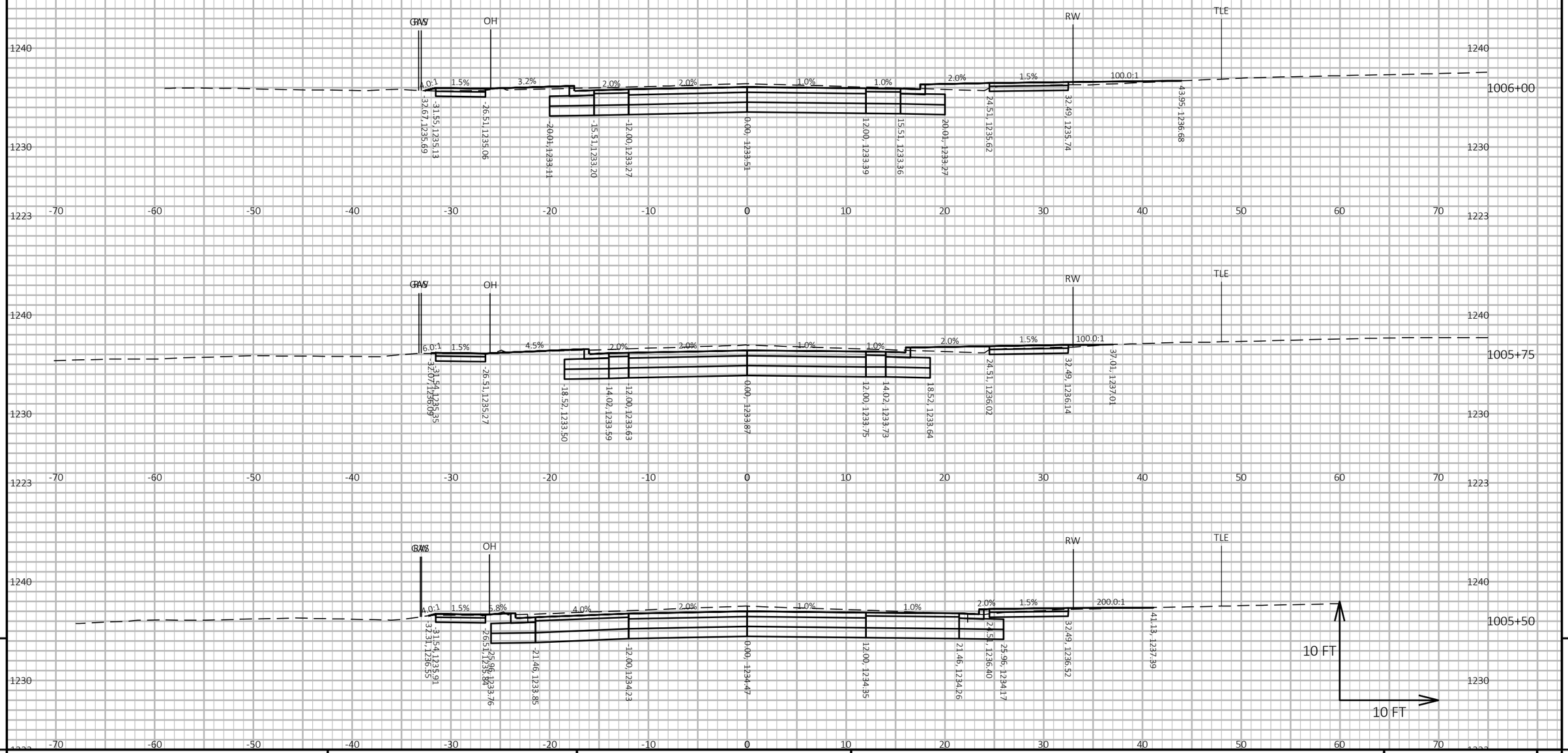


PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 312	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_JEFFERSON TO BRIDGE.DWG
LAYOUT NAME - 17

PLOT DATE : 7/26/2022 4:08 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 313	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_JEFFERSON TO BRIDGE.DWG
LAYOUT NAME - 18

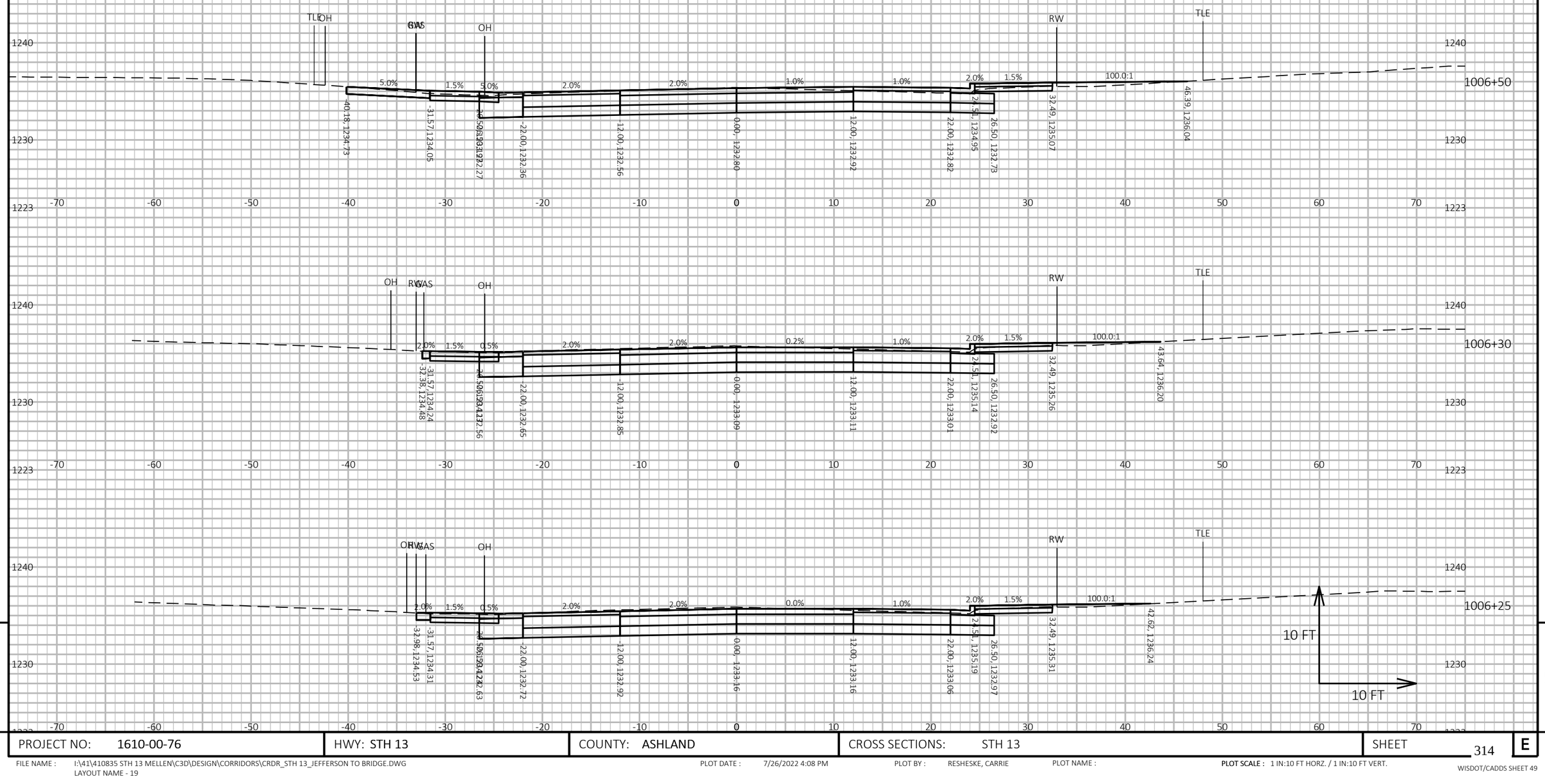
PLOT DATE : 7/26/2022 4:08 PM

PLOT BY : RESHESKE, CARRIE

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

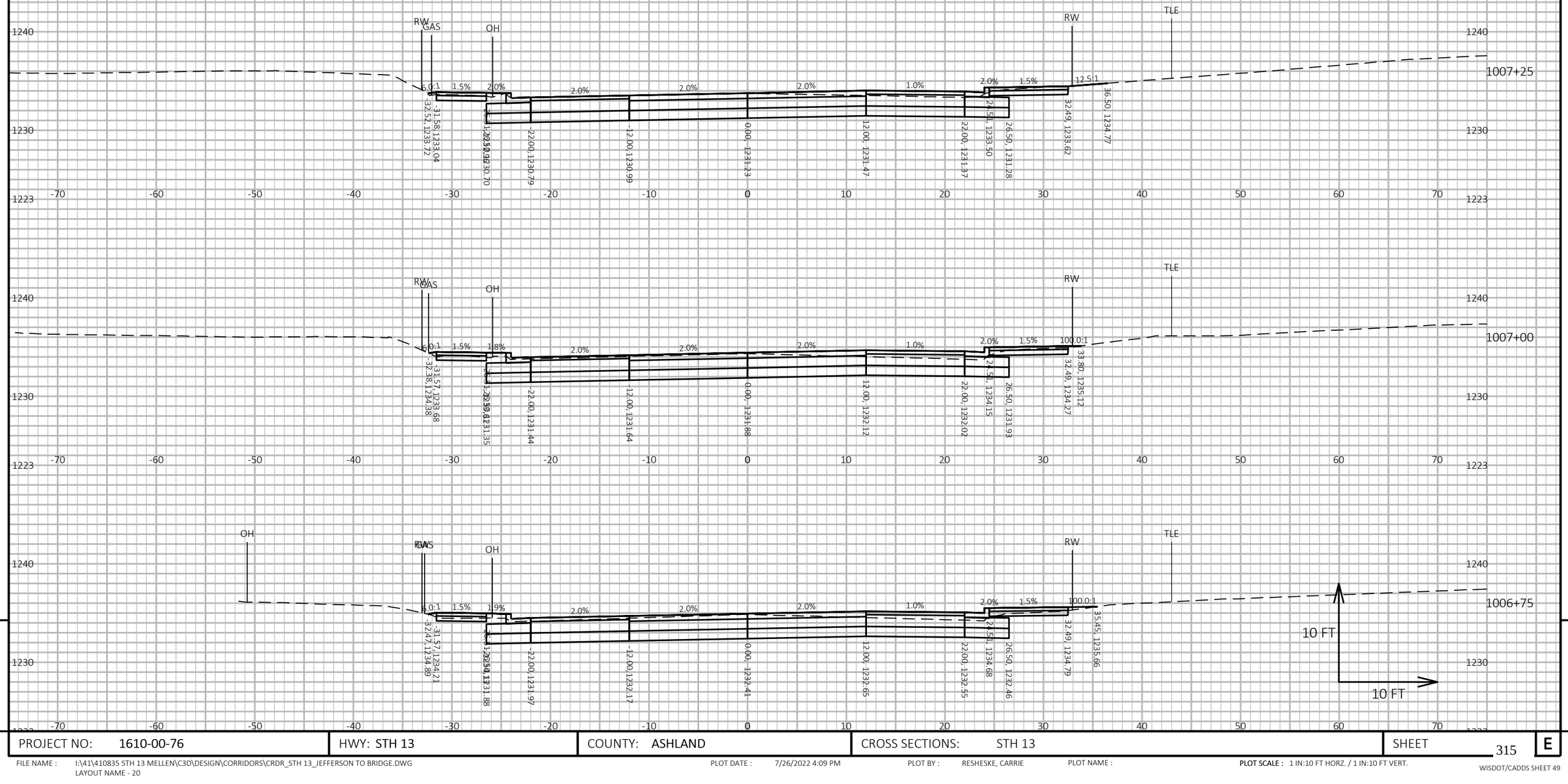
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PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 314	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_JEFFERSON TO BRIDGE.DWG
LAYOUT NAME - 19

PLOT DATE : 7/26/2022 4:08 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

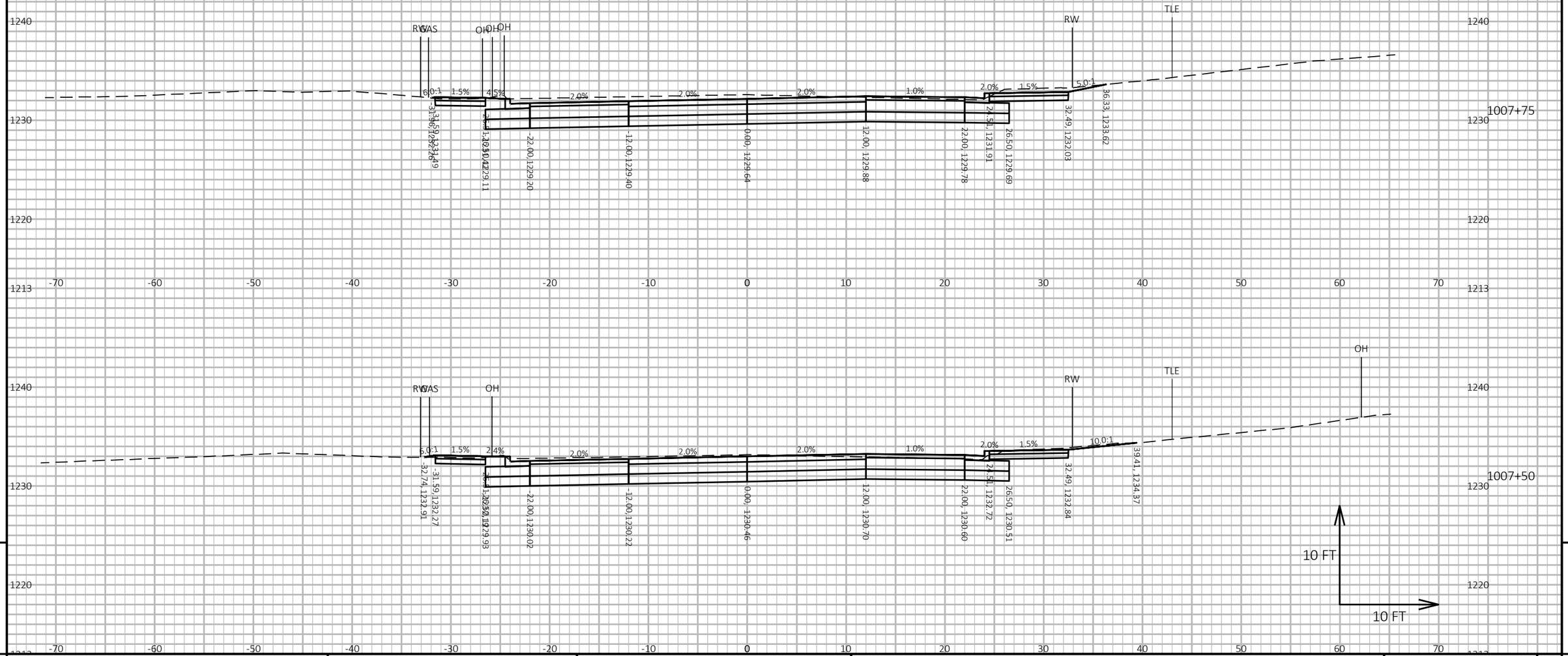


PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 315 E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_JEFFERSON TO BRIDGE.DWG
LAYOUT NAME - 20

PLOT DATE : 7/26/2022 4:09 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

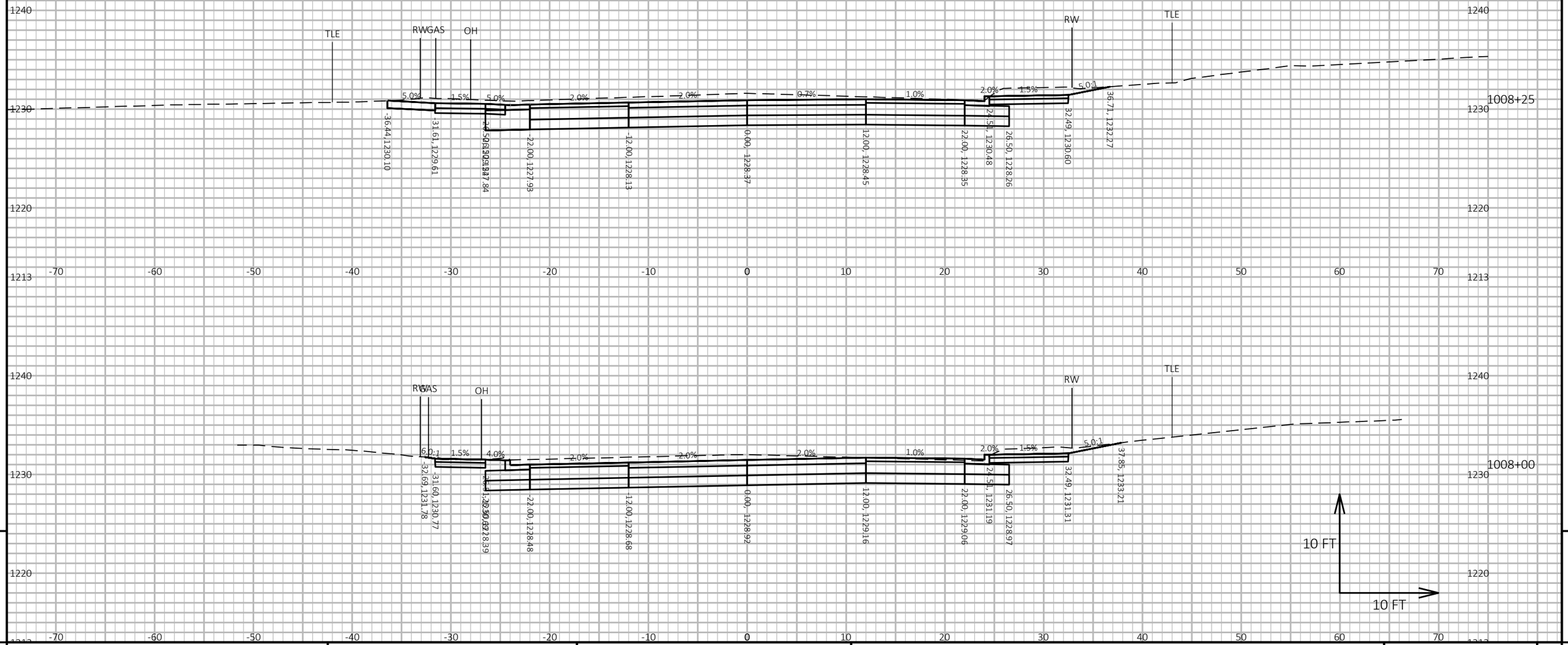


PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 316	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_JEFFERSON TO BRIDGE.DWG
LAYOUT NAME - 21

PLOT DATE : 7/26/2022 4:09 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

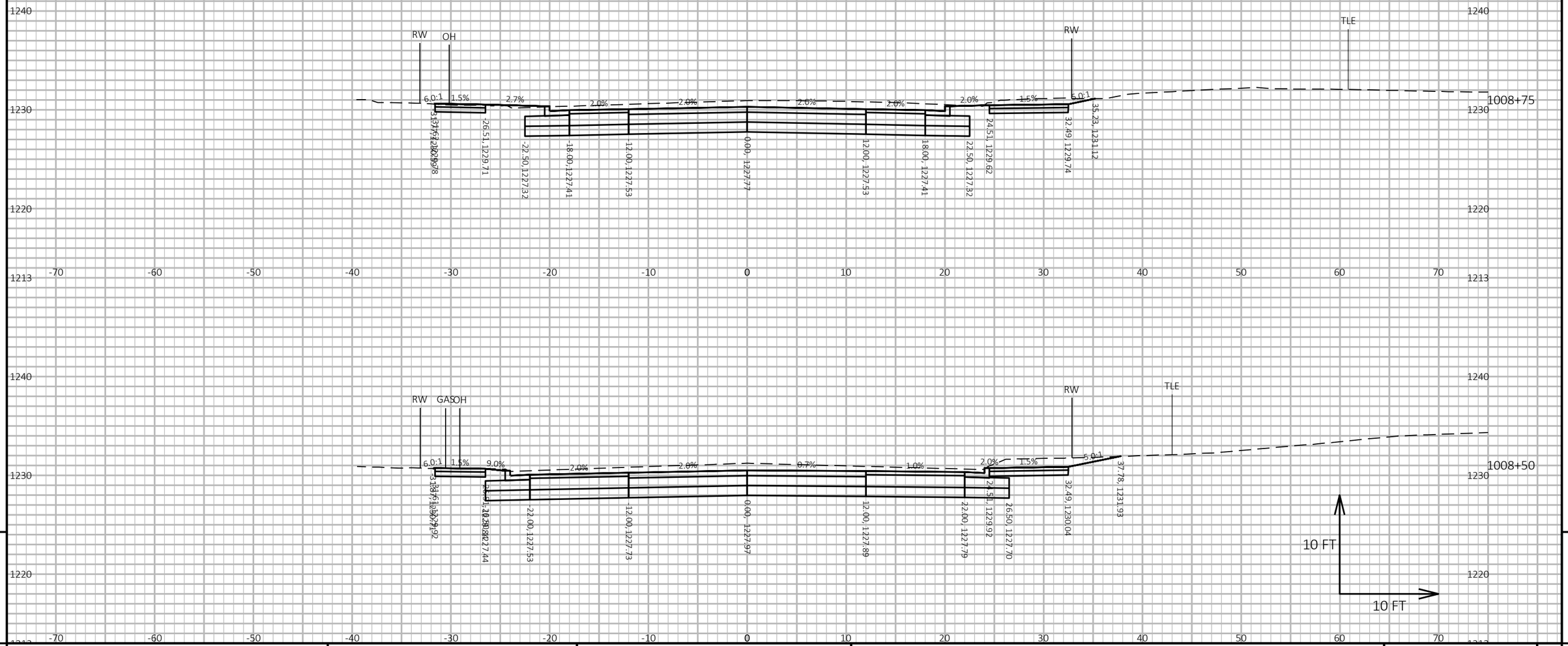
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PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 317	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_JEFFERSON TO BRIDGE.DWG
LAYOUT NAME - 22

PLOT DATE : 7/26/2022 4:09 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

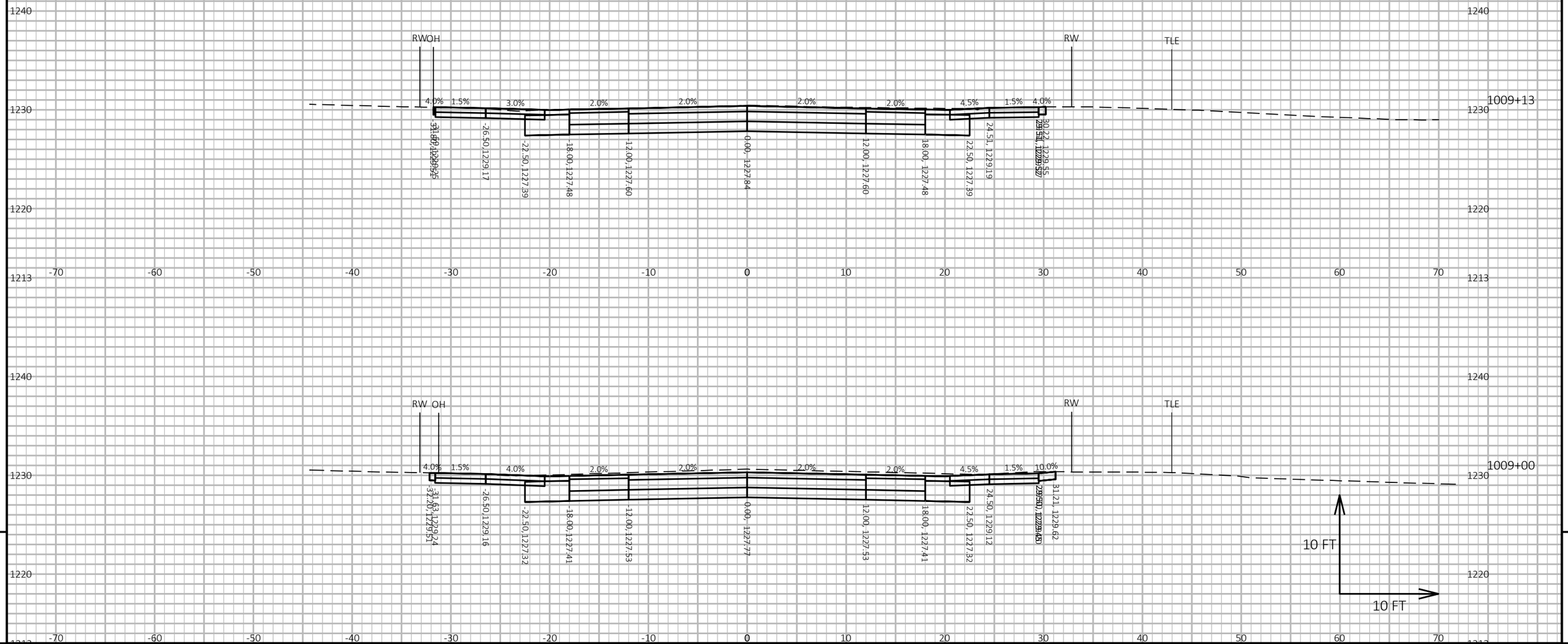
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PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 318	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_JEFFERSON TO BRIDGE.DWG
LAYOUT NAME - 23

PLOT DATE : 7/26/2022 4:09 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

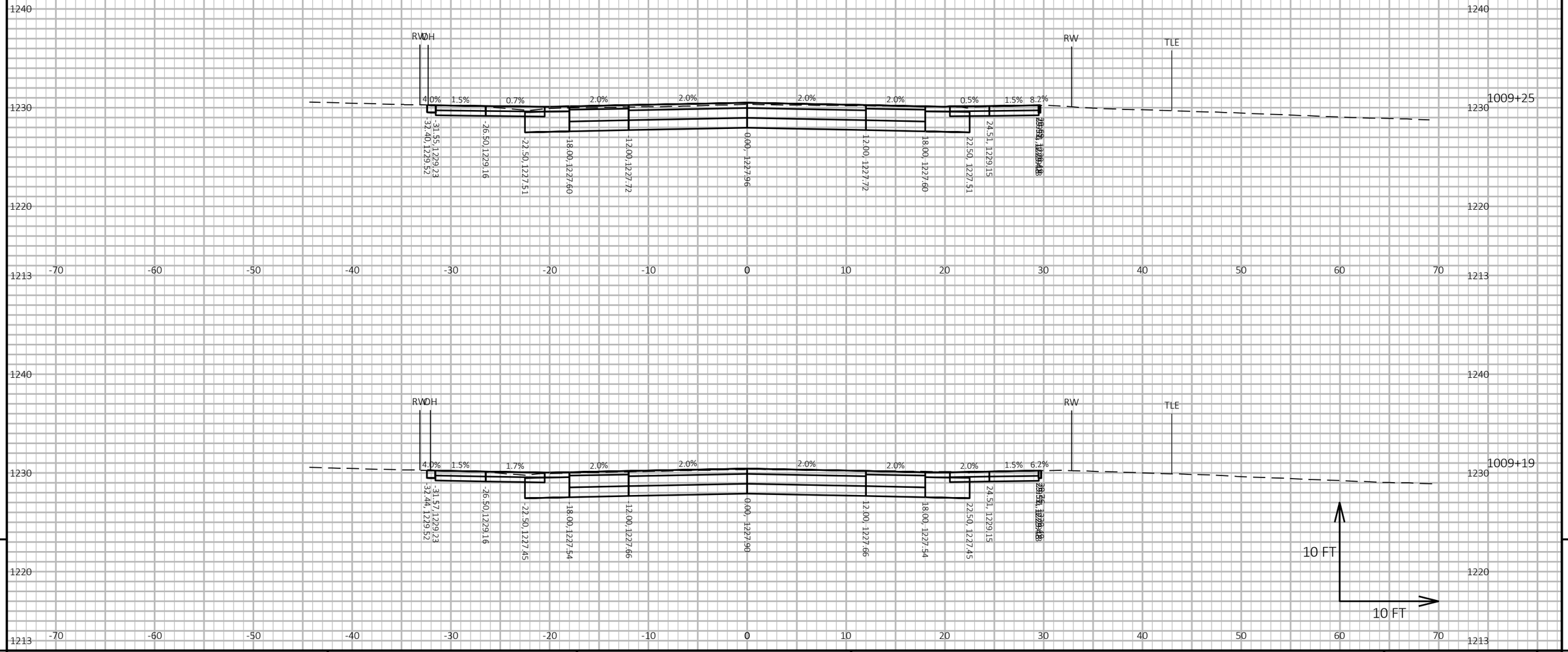
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PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 319	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_JEFFERSON TO BRIDGE.DWG
LAYOUT NAME - 24

PLOT DATE : 7/26/2022 4:09 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 320	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_JEFFERSON TO BRIDGE.DWG
LAYOUT NAME - 25

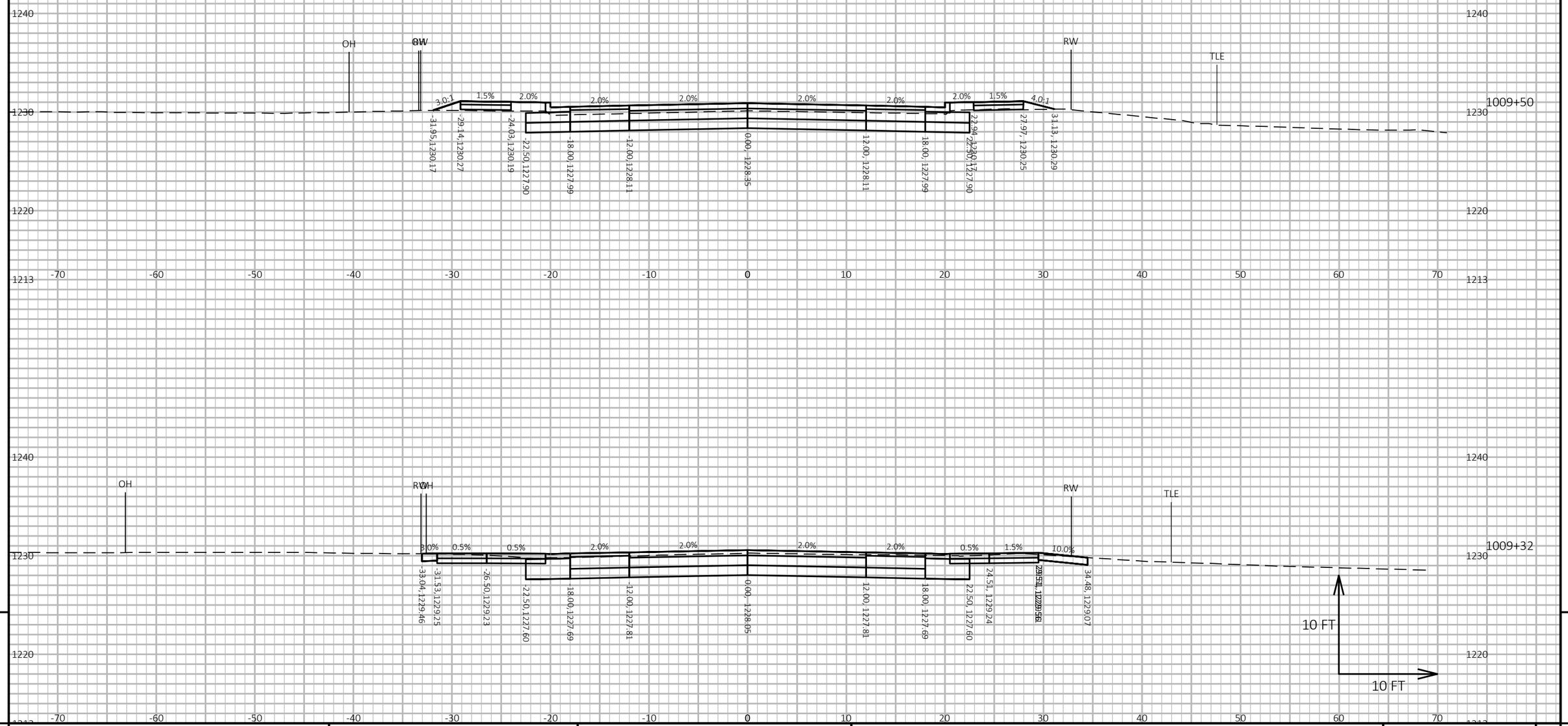
PLOT DATE : 7/26/2022 4:09 PM

PLOT BY : RESHESKE, CARRIE

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

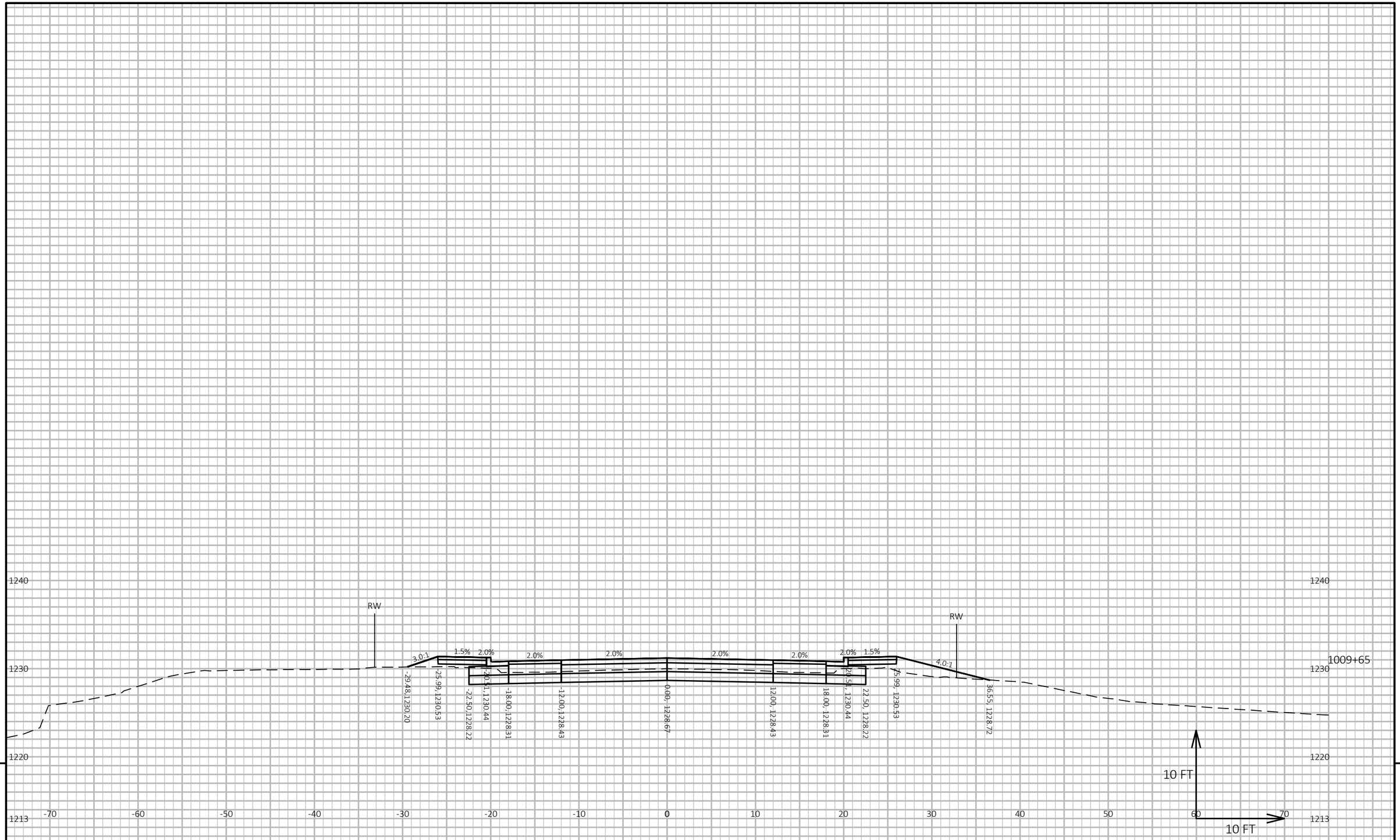
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PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 321	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_JEFFERSON TO BRIDGE.DWG
LAYOUT NAME - 26

PLOT DATE : 7/26/2022 4:09 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

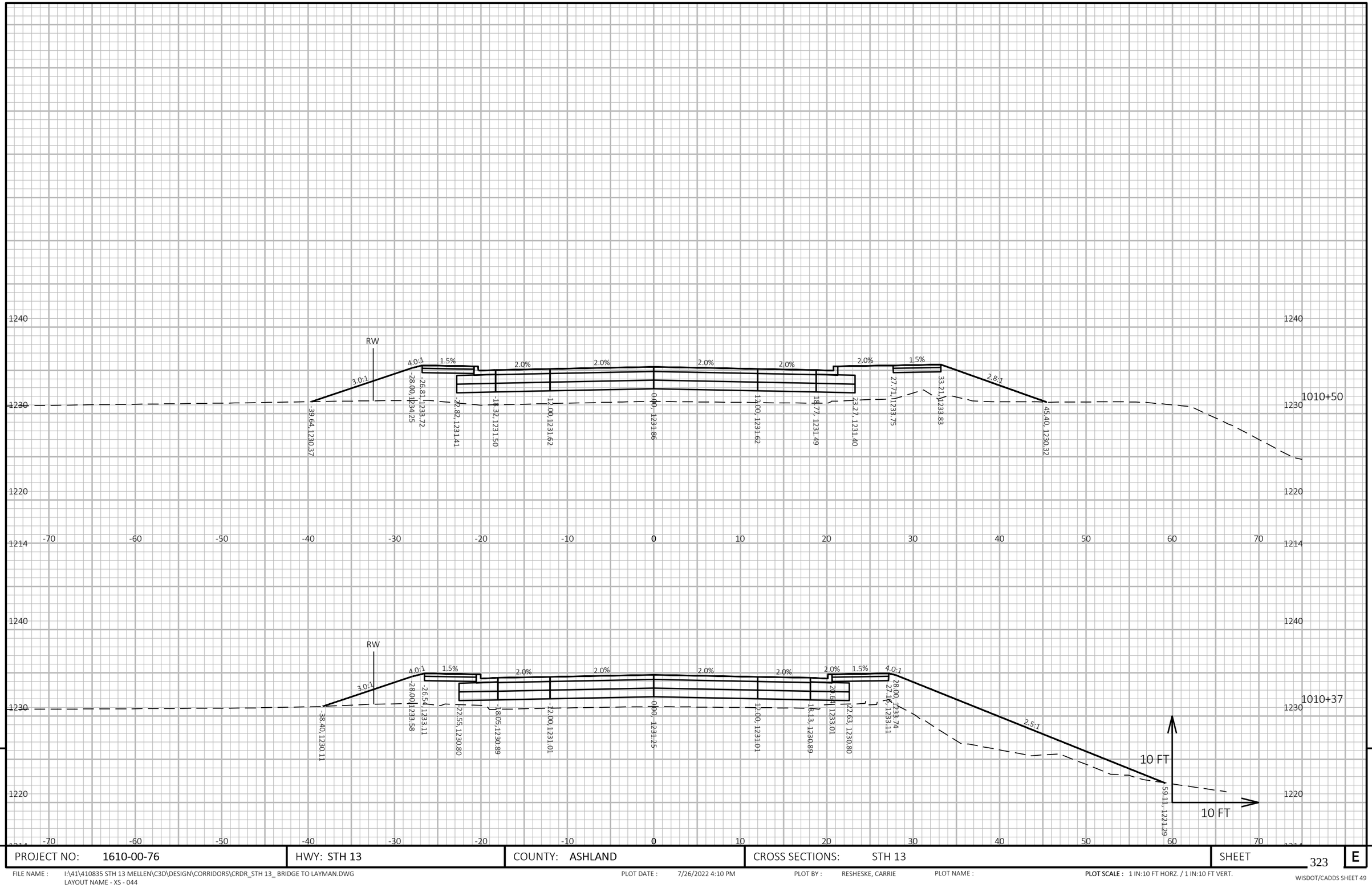
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PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 322	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_JEFFERSON TO BRIDGE.DWG
LAYOUT NAME - 27

PLOT DATE : 7/26/2022 4:09 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

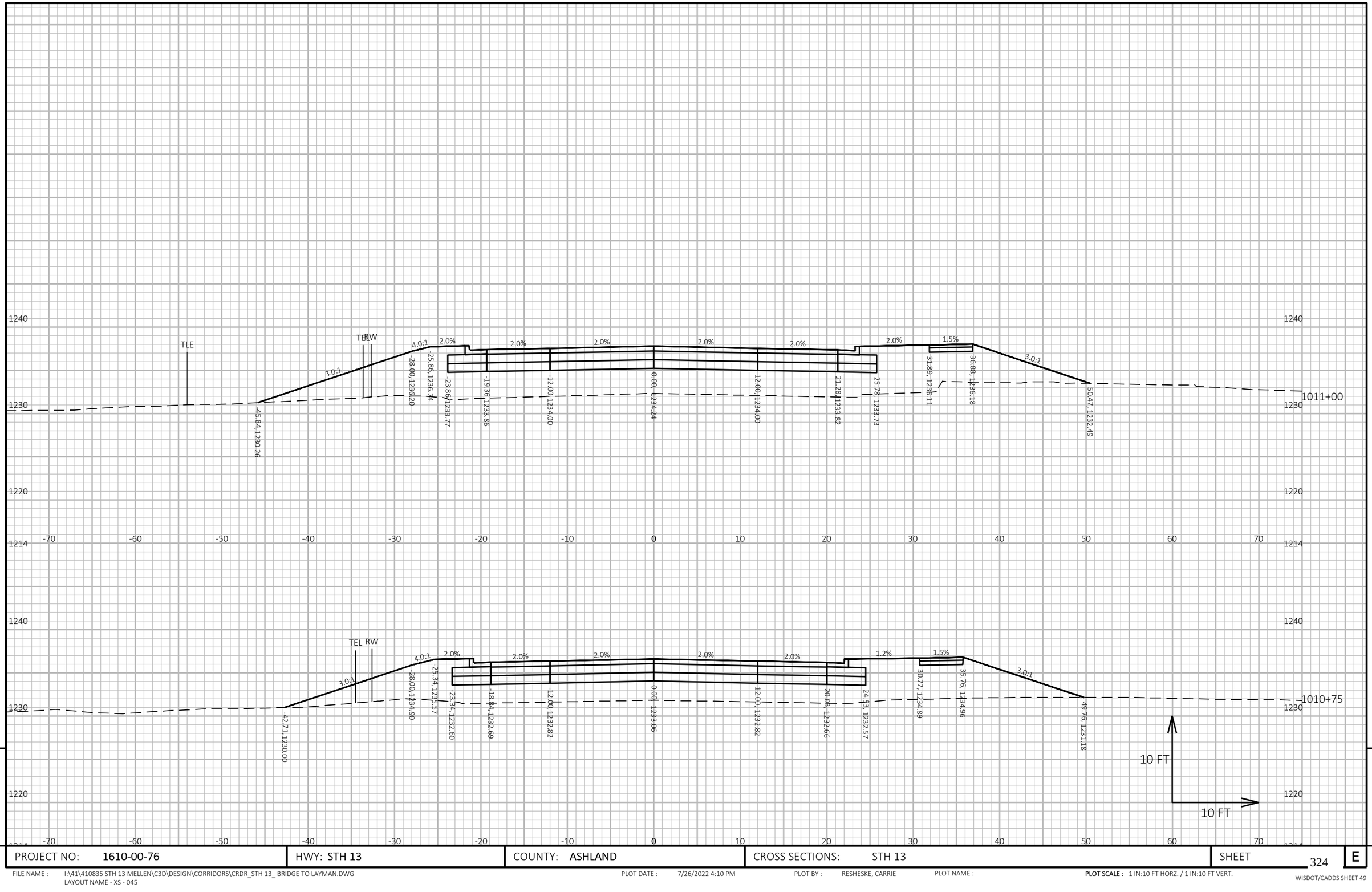


PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 323	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_ BRIDGE TO LAYMAN.DWG
LAYOUT NAME - XS - 044

PLOT DATE : 7/26/2022 4:10 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

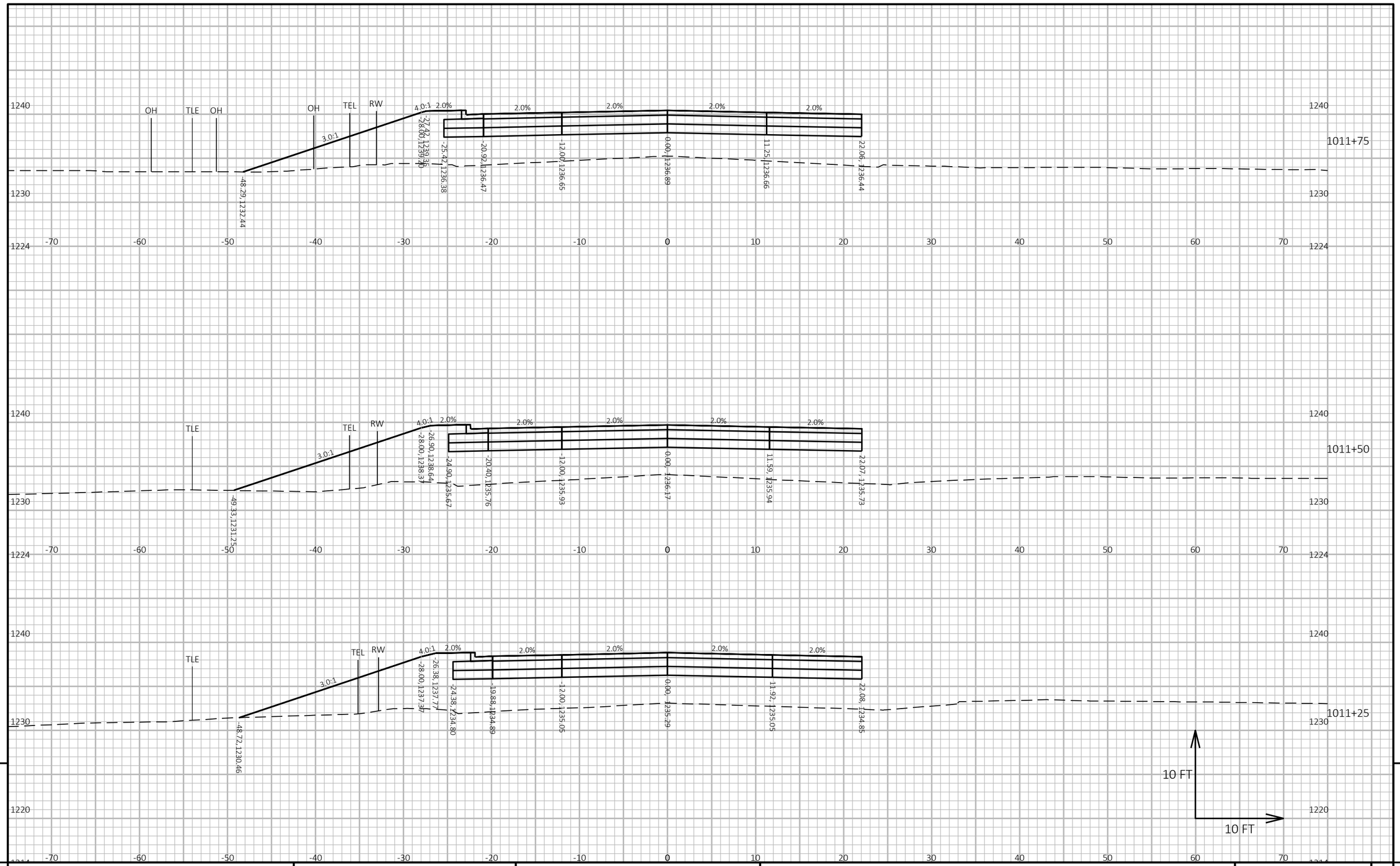
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PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 324	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_ BRIDGE TO LAYMAN.DWG
LAYOUT NAME - XS - 045

PLOT DATE : 7/26/2022 4:10 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 325	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_ BRIDGE TO LAYMAN.DWG
LAYOUT NAME - XS - 046

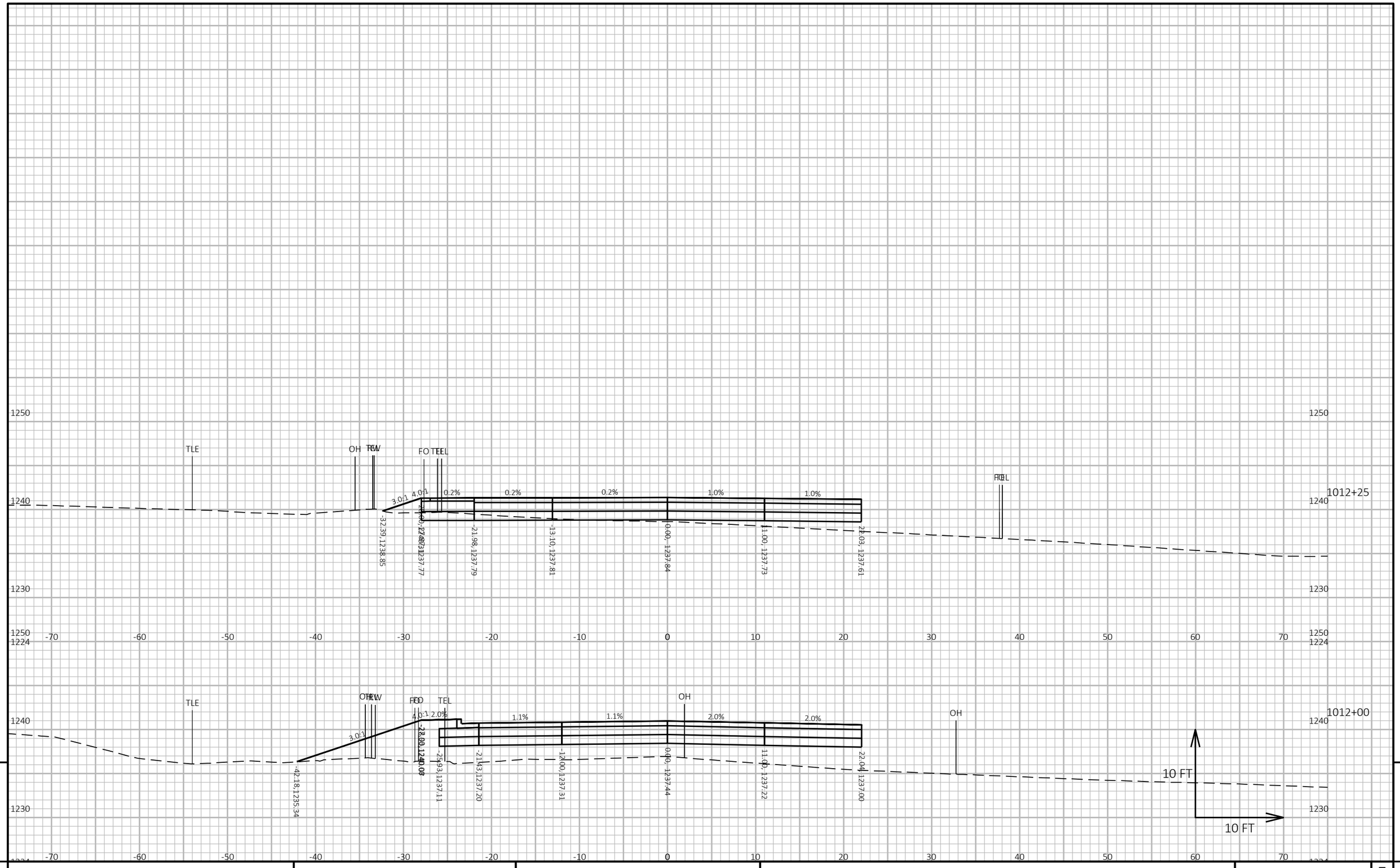
PLOT DATE : 7/26/2022 4:10 PM

PLOT BY : RESHESKE, CARRIE

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 326	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_ BRIDGE TO LAYMAN.DWG
LAYOUT NAME - XS - 047

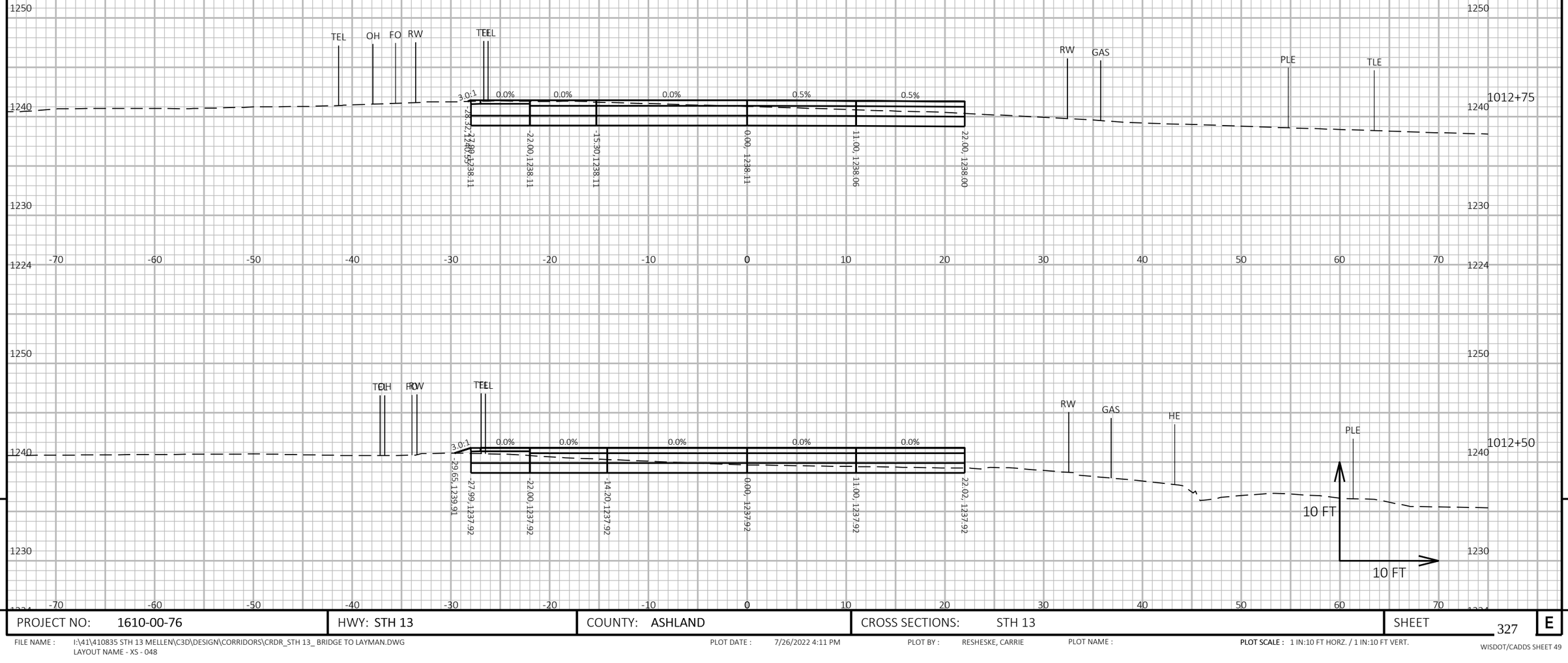
PLOT DATE : 7/26/2022 4:10 PM

PLOT BY : RESHESKE, CARRIE

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

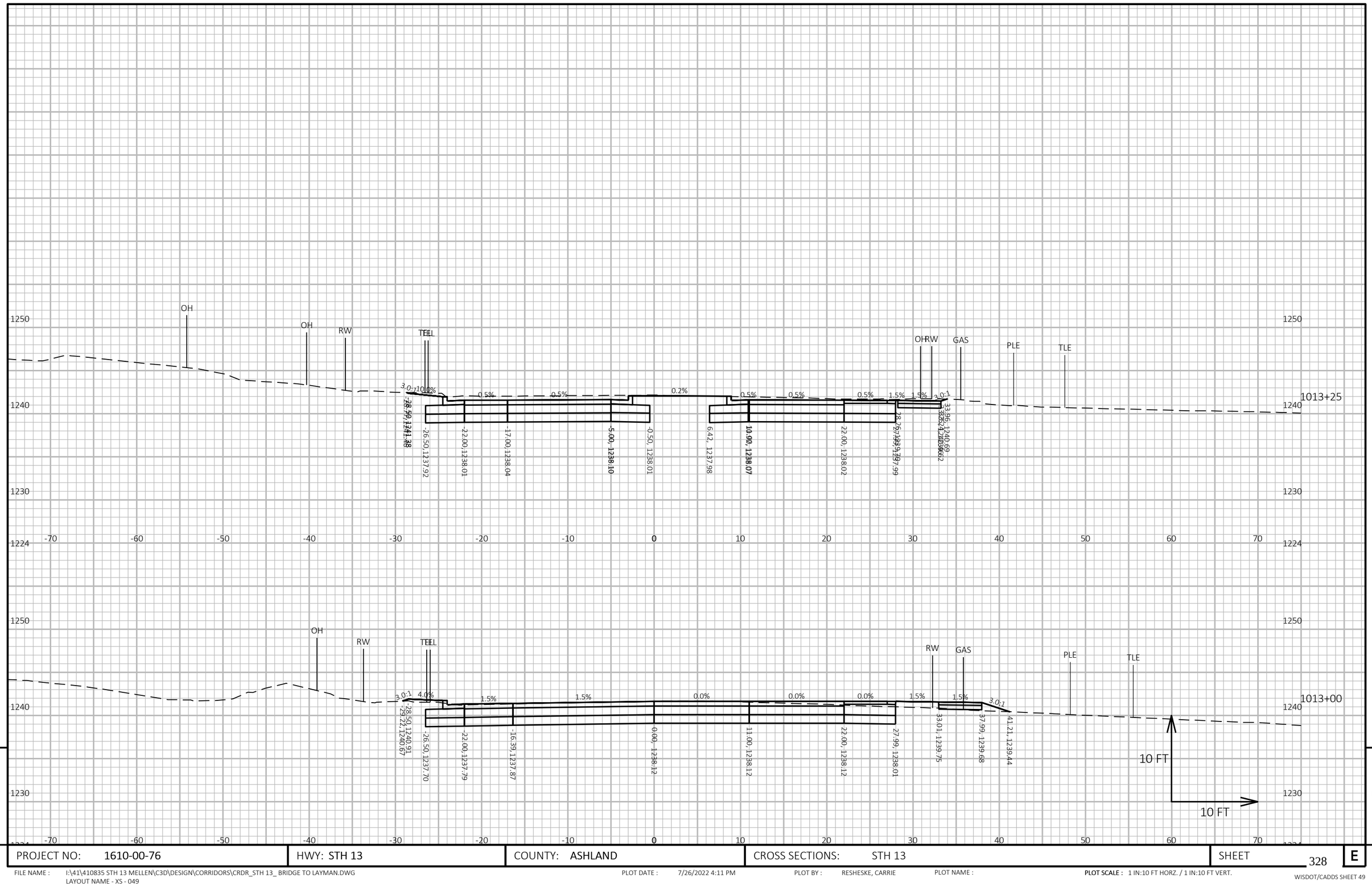
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PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 327	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_ BRIDGE TO LAYMAN.DWG
LAYOUT NAME - XS - 048

PLOT DATE : 7/26/2022 4:11 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

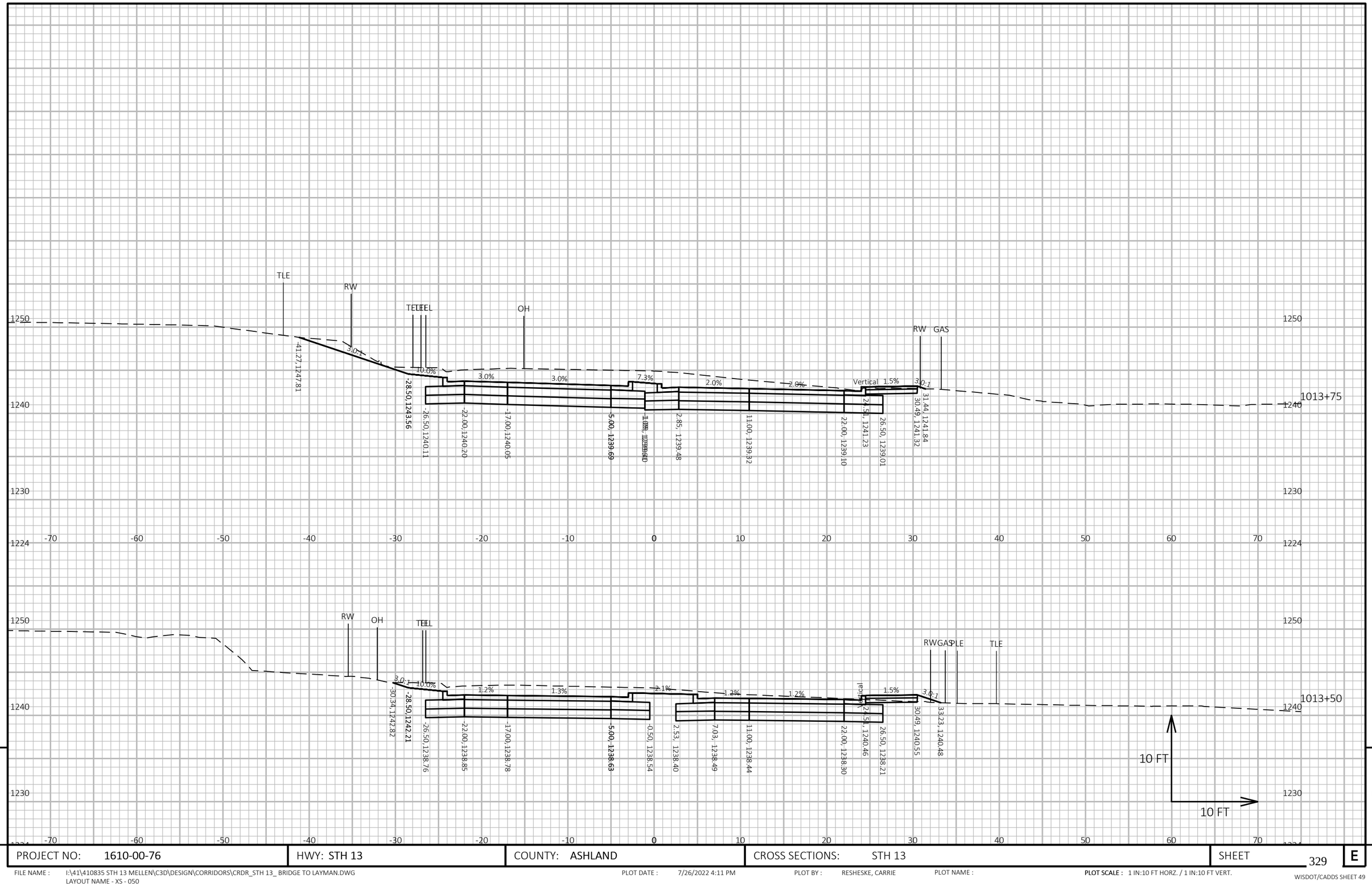
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PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 328	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_ BRIDGE TO LAYMAN.DWG
LAYOUT NAME - XS - 049

PLOT DATE : 7/26/2022 4:11 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

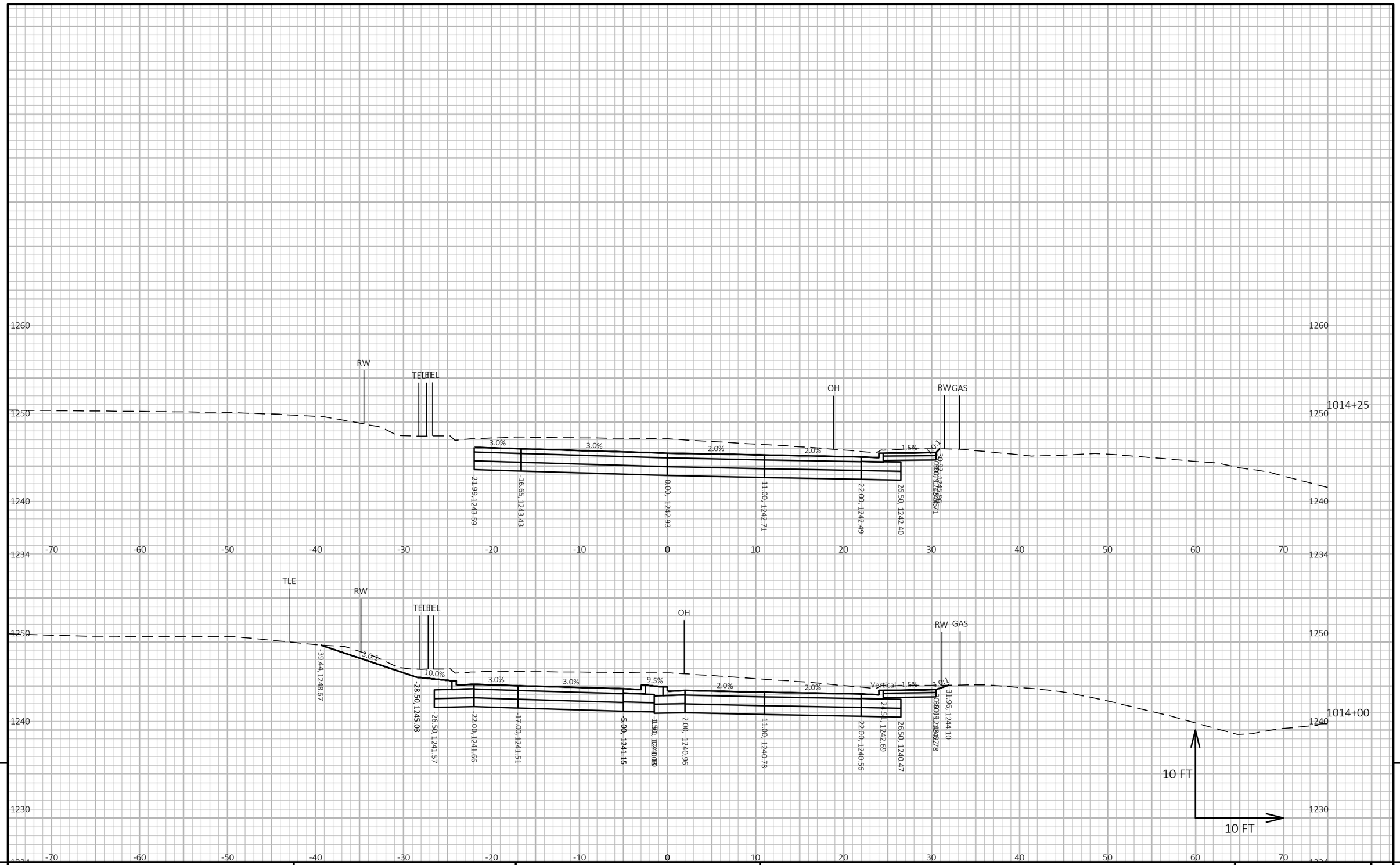
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PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 329	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_ BRIDGE TO LAYMAN.DWG
LAYOUT NAME - XS - 050

PLOT DATE : 7/26/2022 4:11 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 330	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_ BRIDGE TO LAYMAN.DWG
LAYOUT NAME - XS - 051

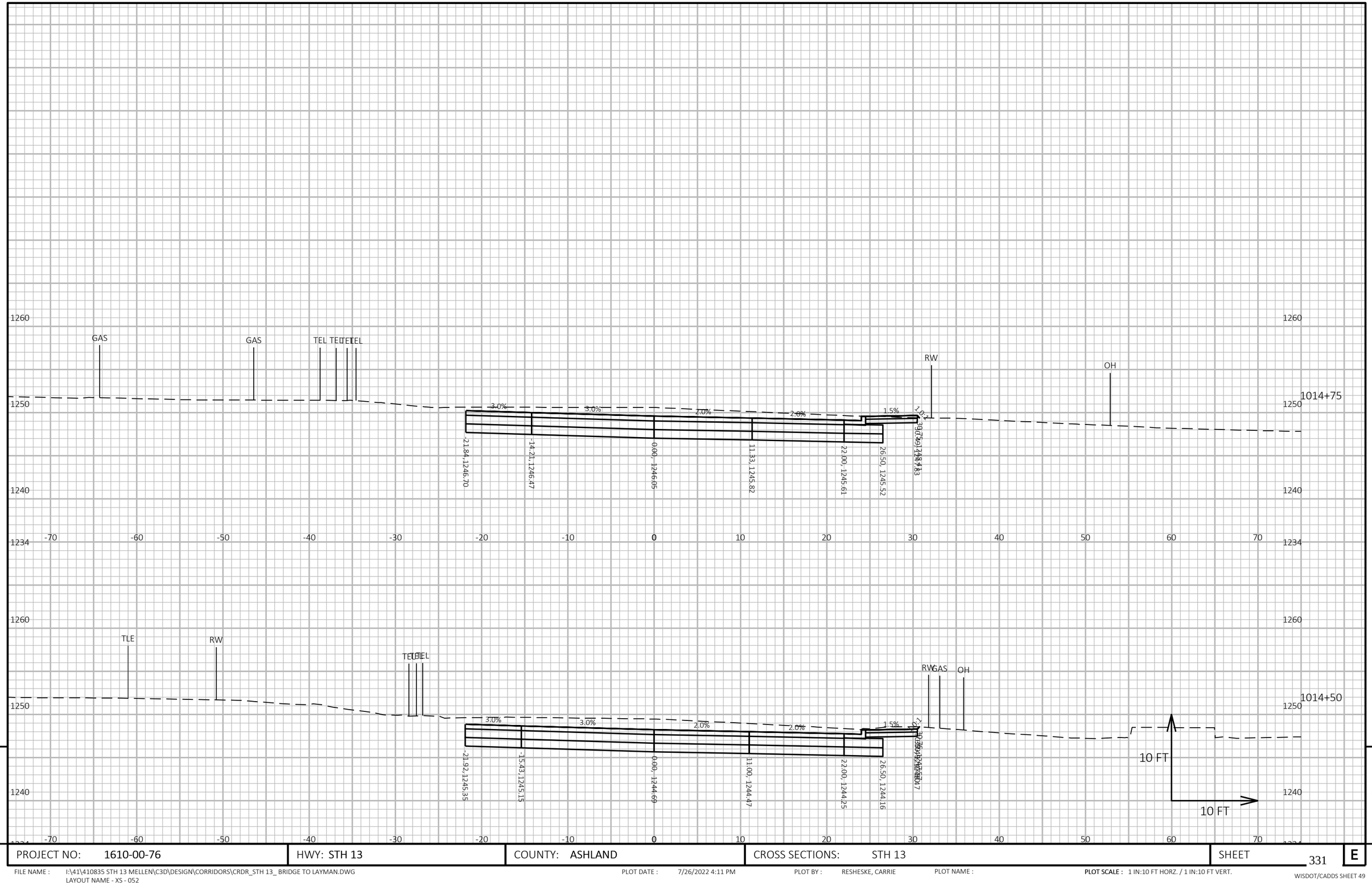
PLOT DATE : 7/26/2022 4:11 PM

PLOT BY : RESHESKE, CARRIE

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

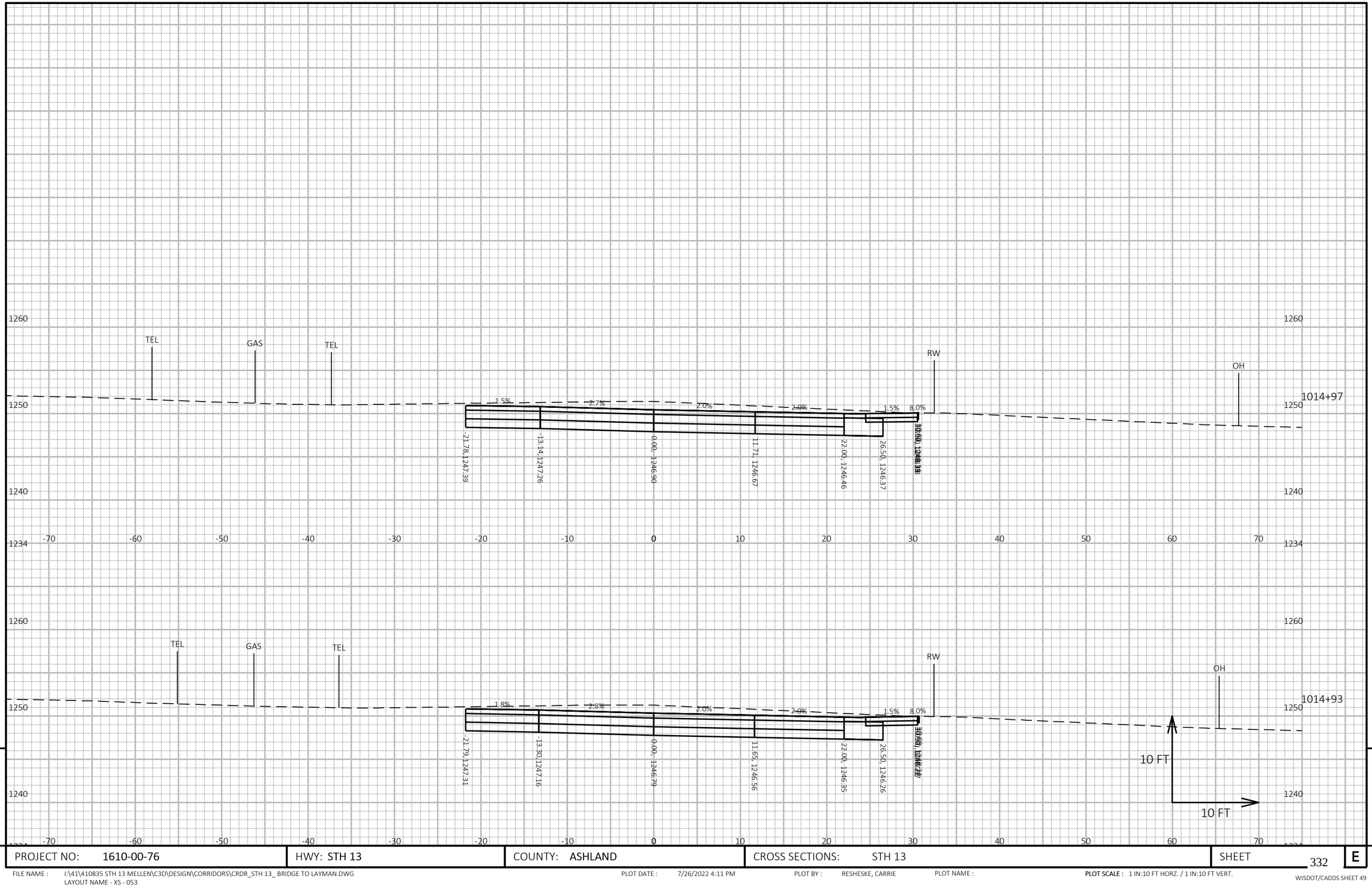
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PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 331	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_ BRIDGE TO LAYMAN.DWG
LAYOUT NAME - XS - 052

PLOT DATE : 7/26/2022 4:11 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

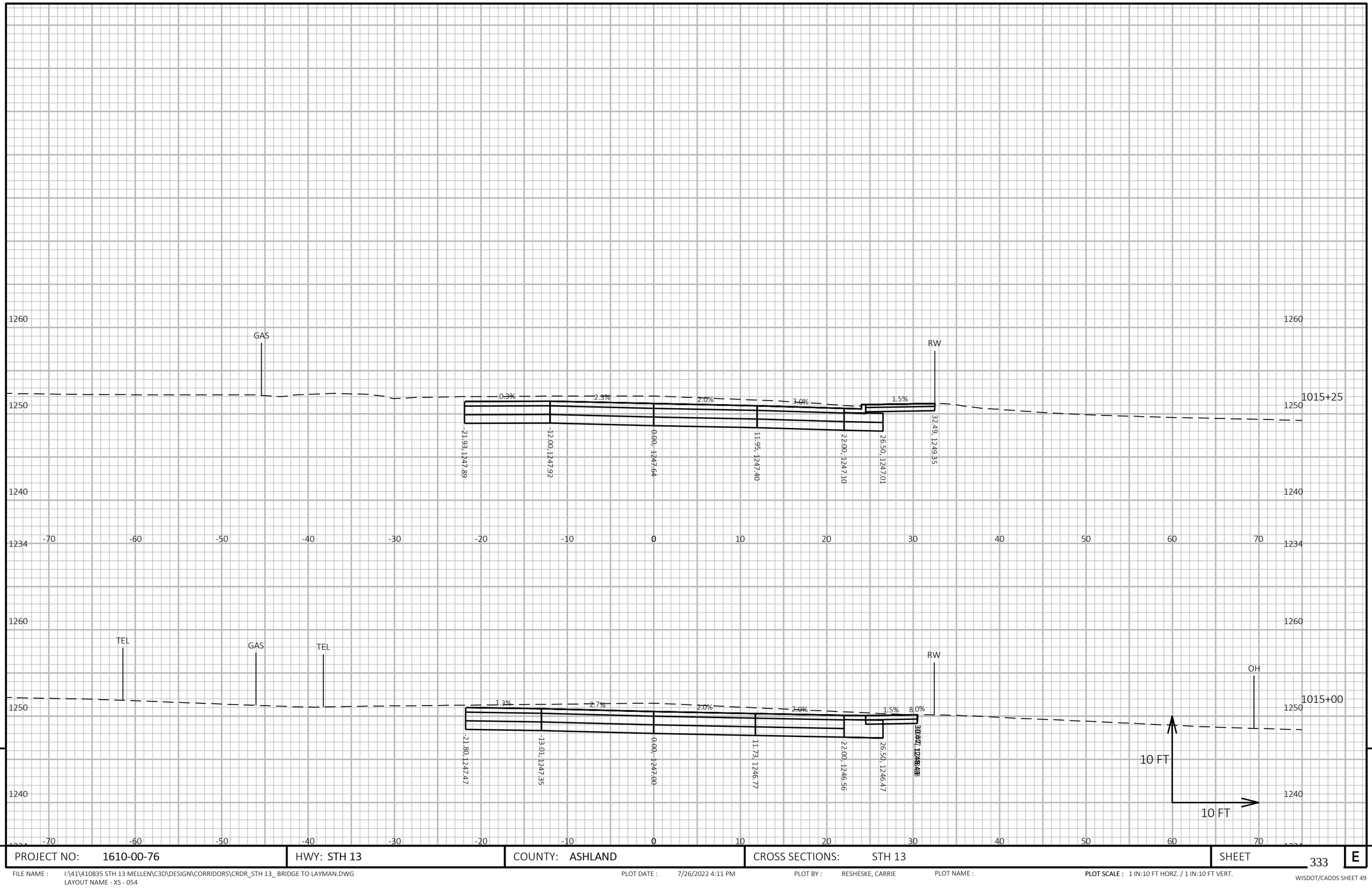
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PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 332	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_ BRIDGE TO LAYMAN.DWG
LAYOUT NAME - XS - 053

PLOT DATE : 7/26/2022 4:11 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



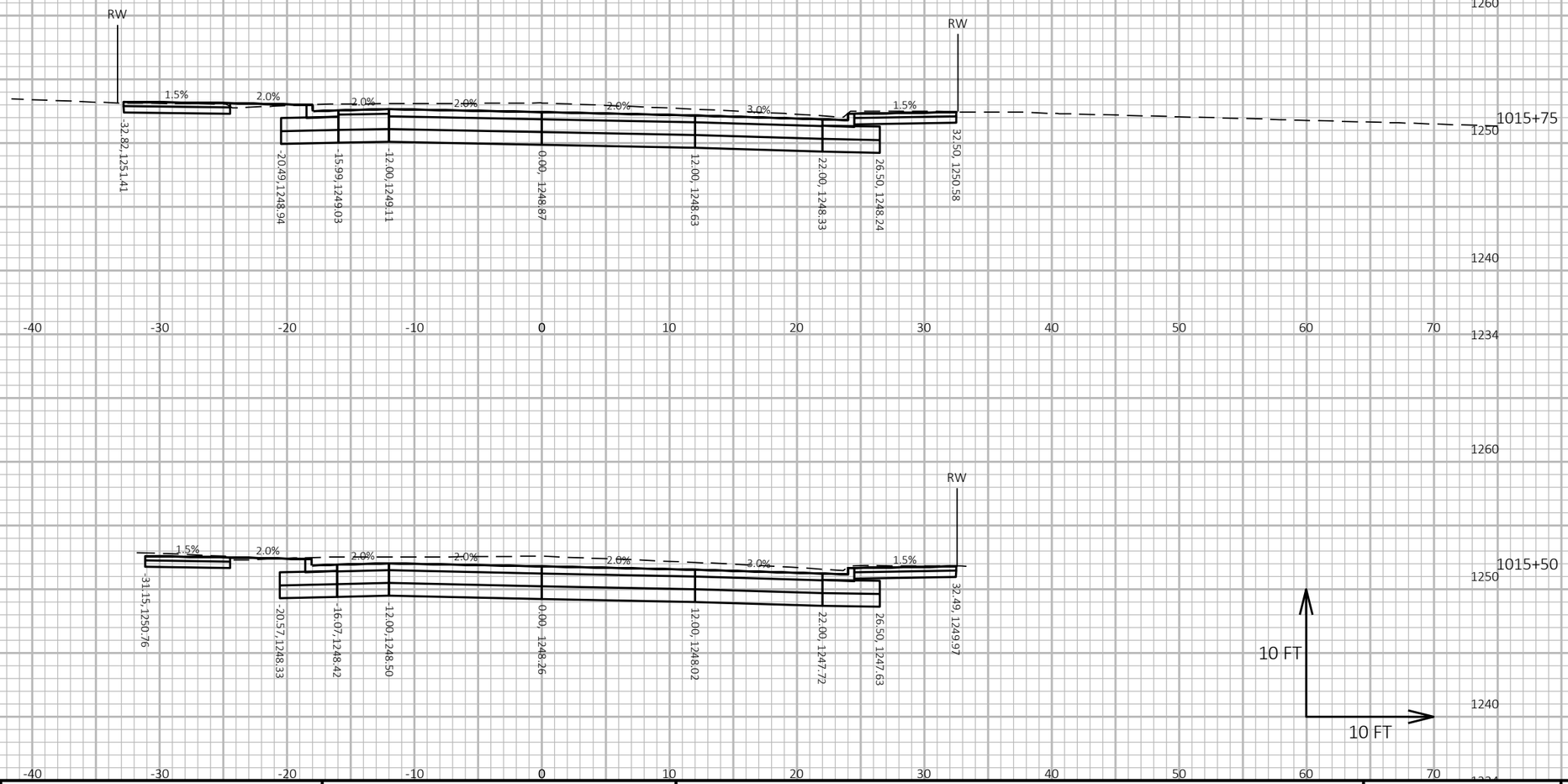
9

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 333	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_ BRIDGE TO LAYMAN.DWG
LAYOUT NAME - XS - 054

PLOT DATE : 7/26/2022 4:11 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



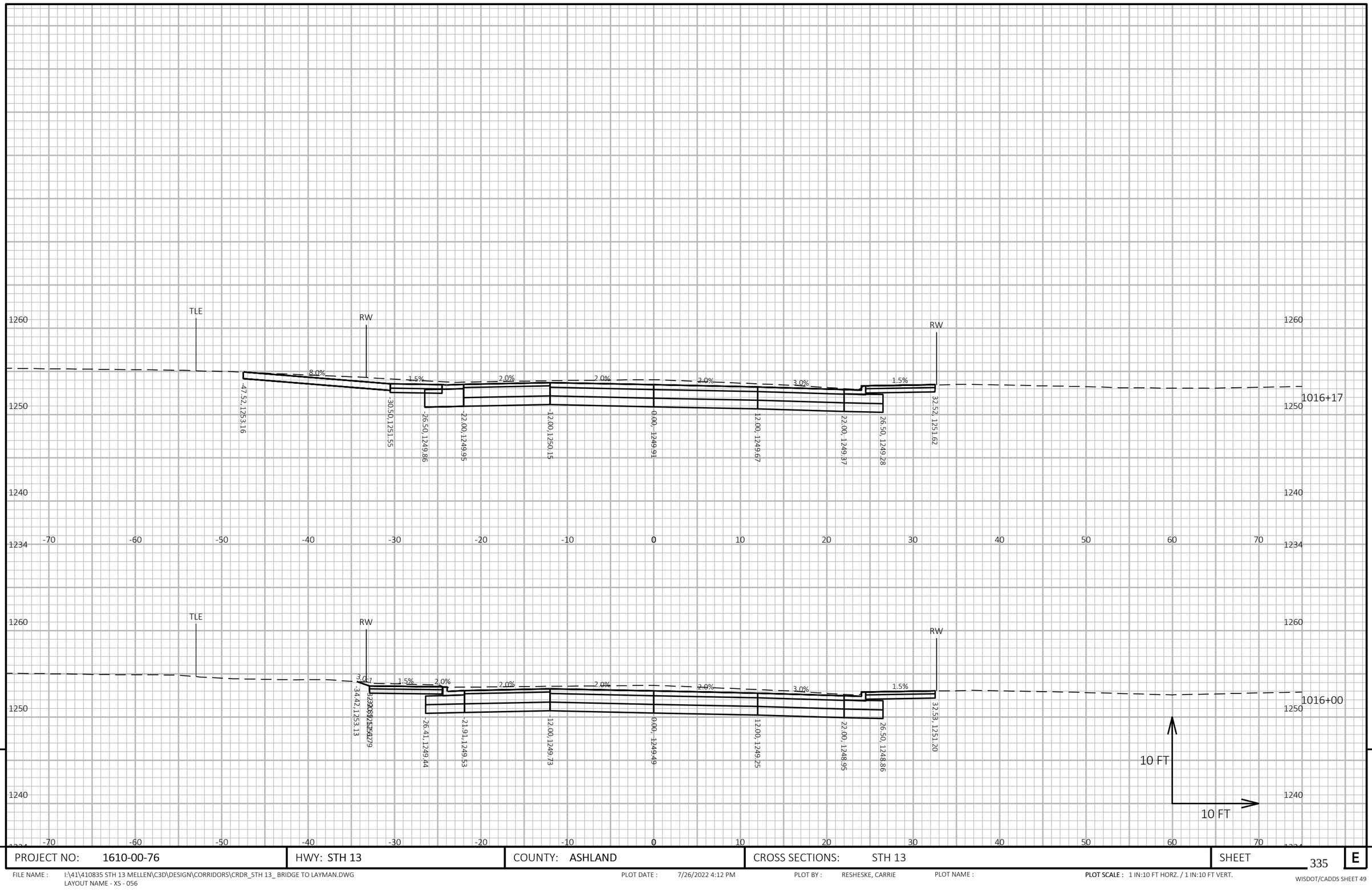
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9

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 334	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_ BRIDGE TO LAYMAN.DWG
LAYOUT NAME - XS - 055

PLOT DATE : 7/26/2022 4:12 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

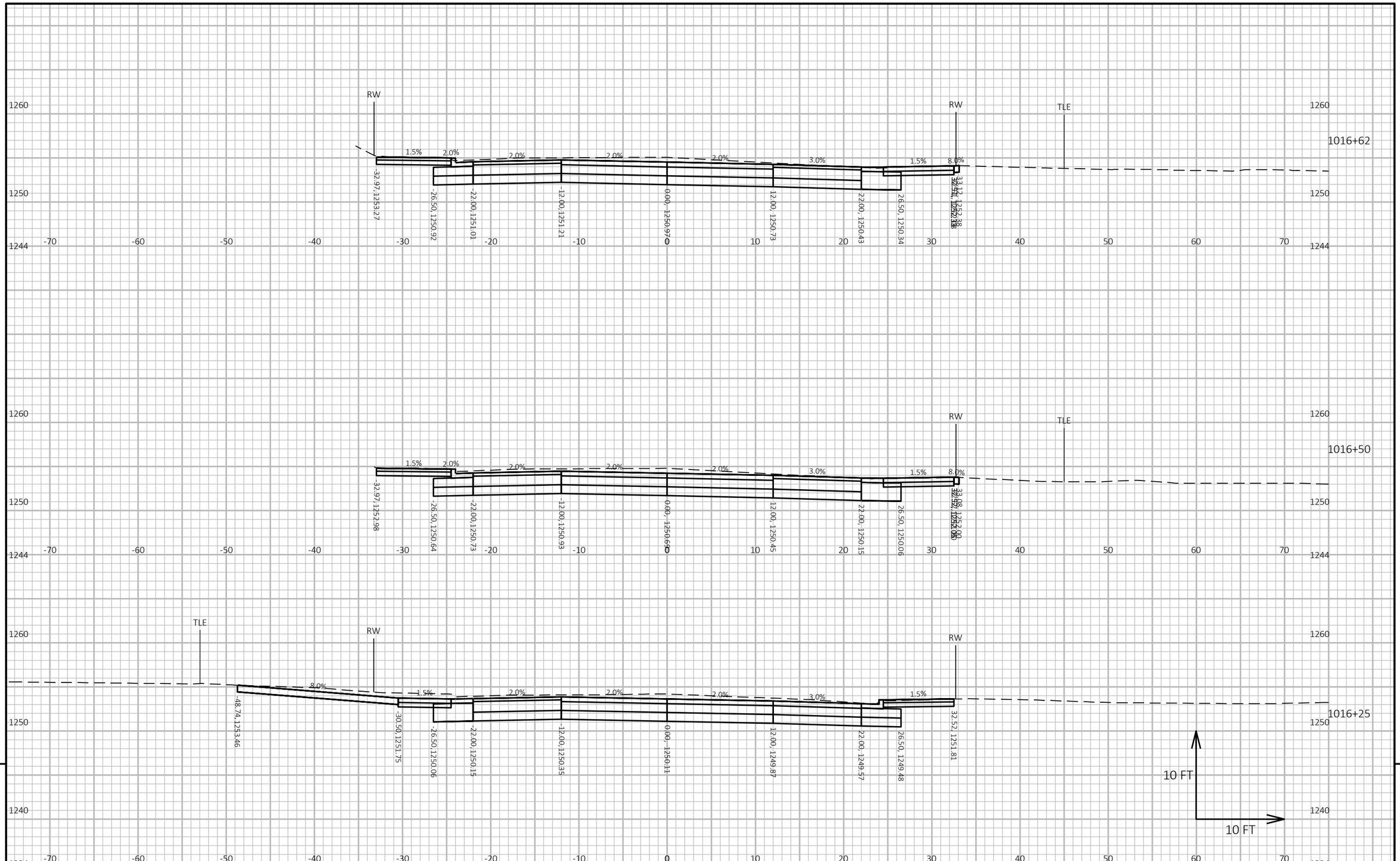


PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 335	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_ BRIDGE TO LAYMAN.DWG
LAYOUT NAME - XS - 056

PLOT DATE : 7/26/2022 4:12 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



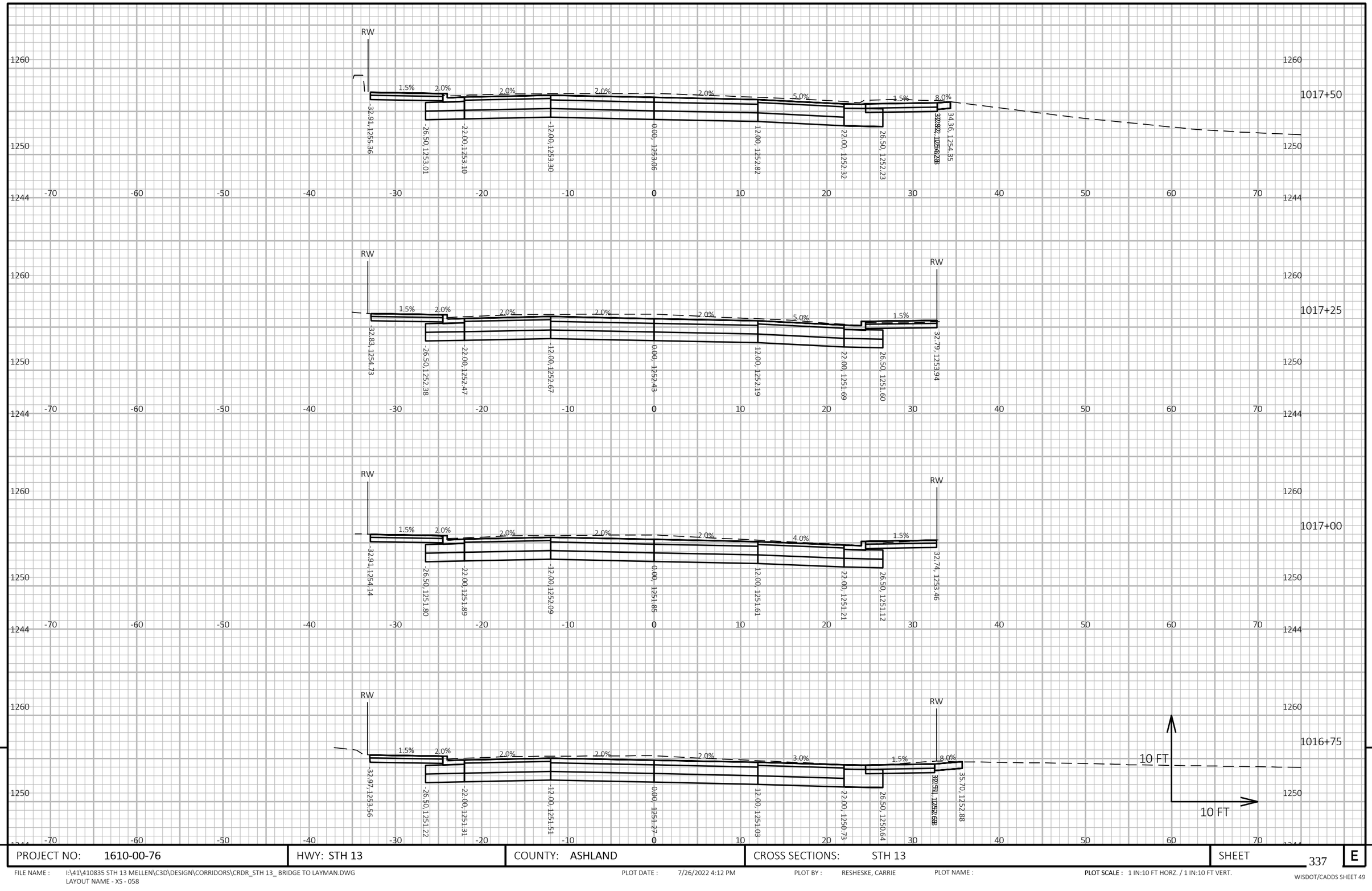
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PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 336	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_ BRIDGE TO LAYMAN.DWG
LAYOUT NAME - XS - 057

PLOT DATE : 7/26/2022 4:12 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 337	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_ BRIDGE TO LAYMAN.DWG
LAYOUT NAME - XS - 058

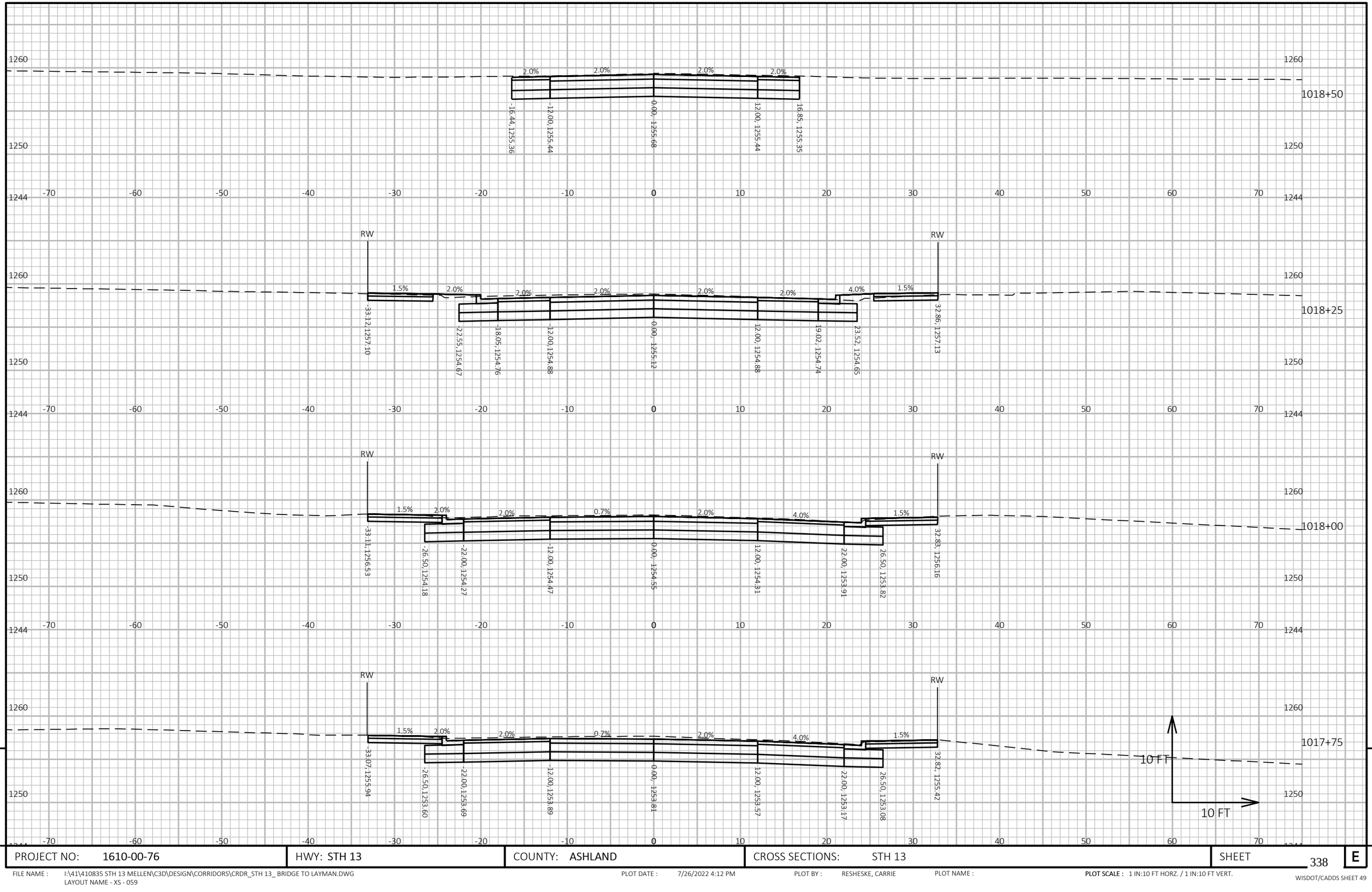
PLOT DATE : 7/26/2022 4:12 PM

PLOT BY : RESHESKE, CARRIE

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

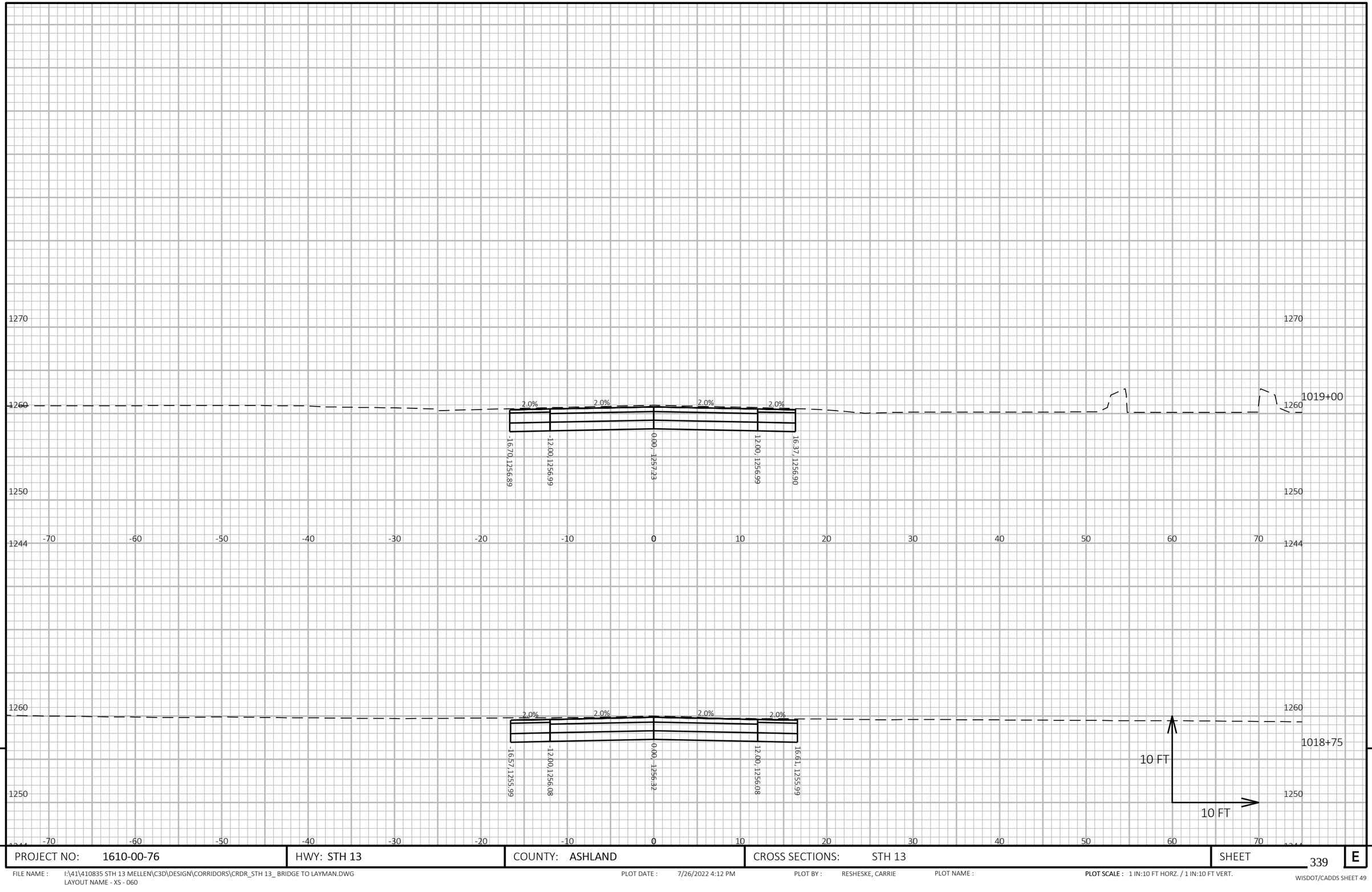
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PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 338	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_ BRIDGE TO LAYMAN.DWG
LAYOUT NAME - XS - 059

PLOT DATE : 7/26/2022 4:12 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

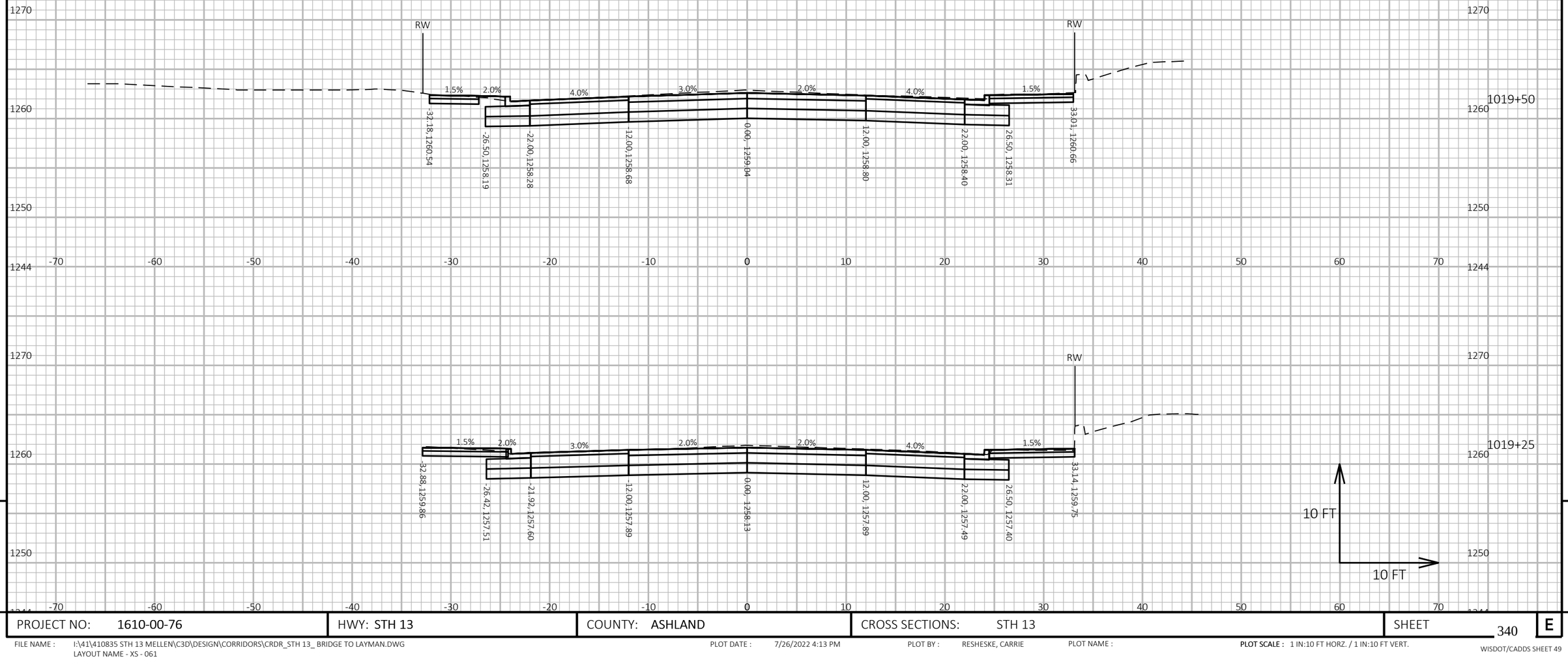
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PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 339	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_ BRIDGE TO LAYMAN.DWG
LAYOUT NAME - XS - 060

PLOT DATE : 7/26/2022 4:12 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

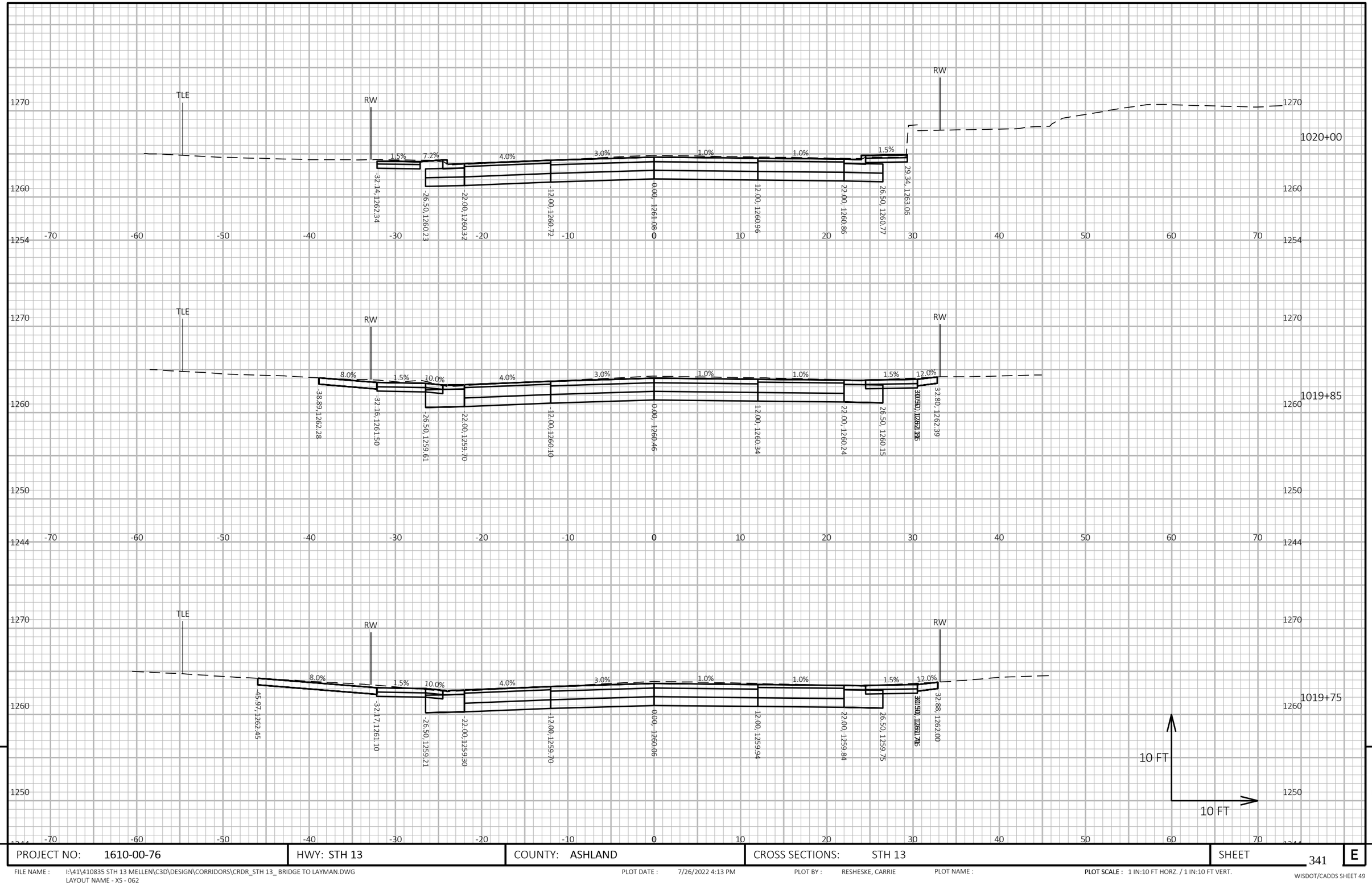
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PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 340	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_ BRIDGE TO LAYMAN.DWG
LAYOUT NAME - XS - 061

PLOT DATE : 7/26/2022 4:13 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

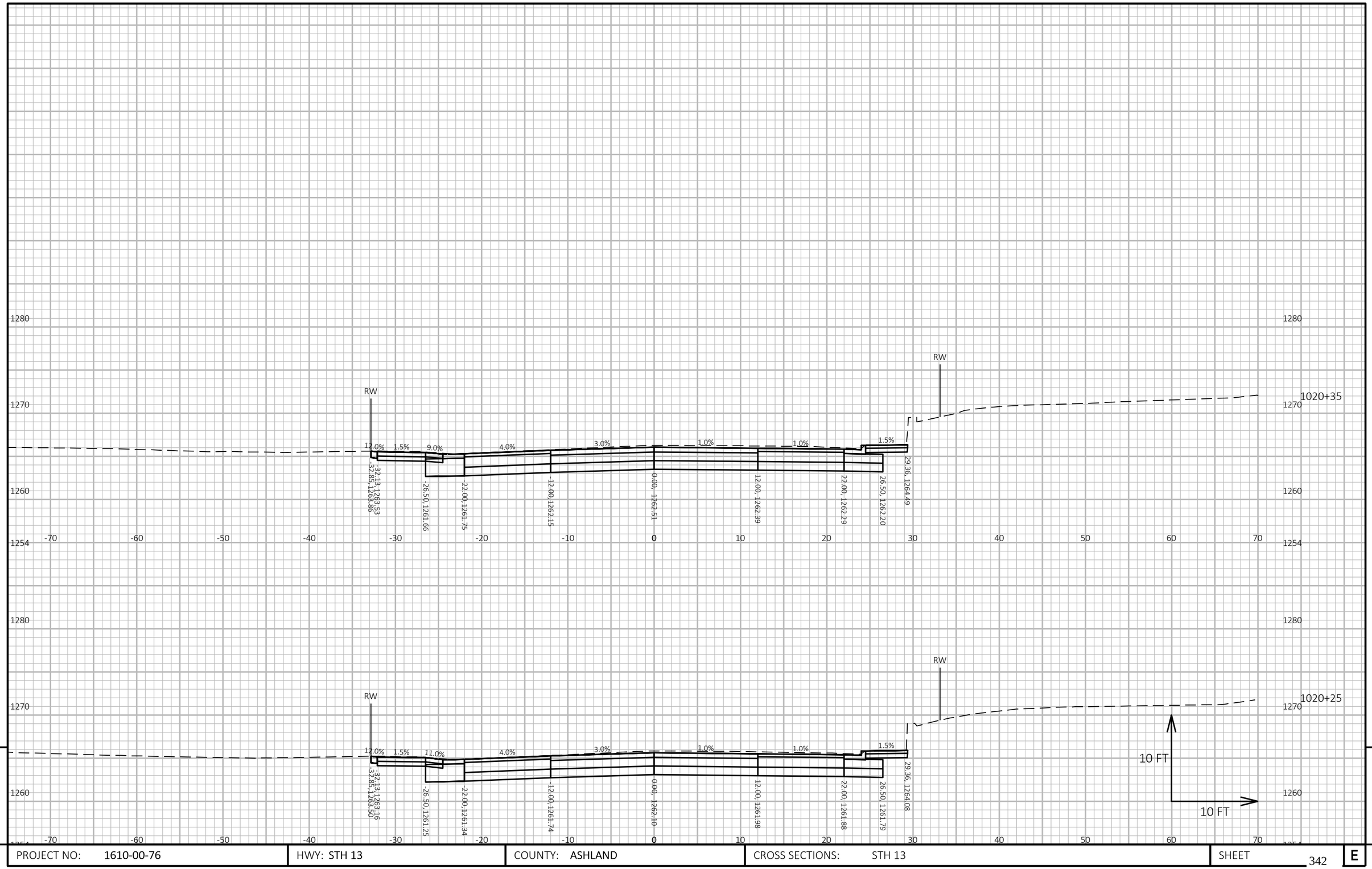
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PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 341	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_ BRIDGE TO LAYMAN.DWG
LAYOUT NAME - XS - 062

PLOT DATE : 7/26/2022 4:13 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 342	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_ BRIDGE TO LAYMAN.DWG
LAYOUT NAME - XS - 063

PLOT DATE : 7/26/2022 4:13 PM

PLOT BY : RESHESKE, CARRIE

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

9

9

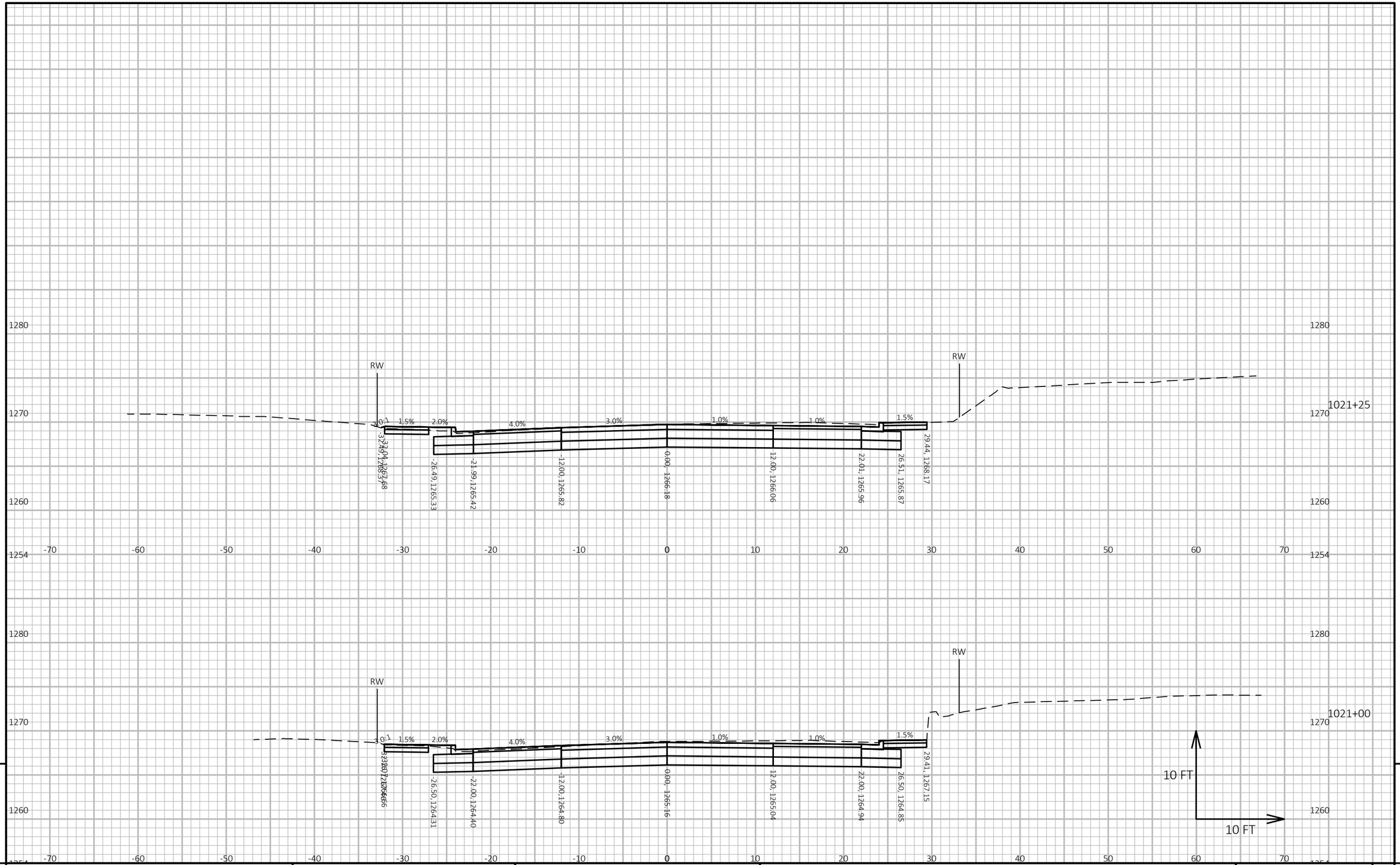
PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 343	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_ BRIDGE TO LAYMAN.DWG
LAYOUT NAME - XS - 064

PLOT DATE : 7/26/2022 4:13 PM PLOT BY : RESHESKE, CARRIE PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

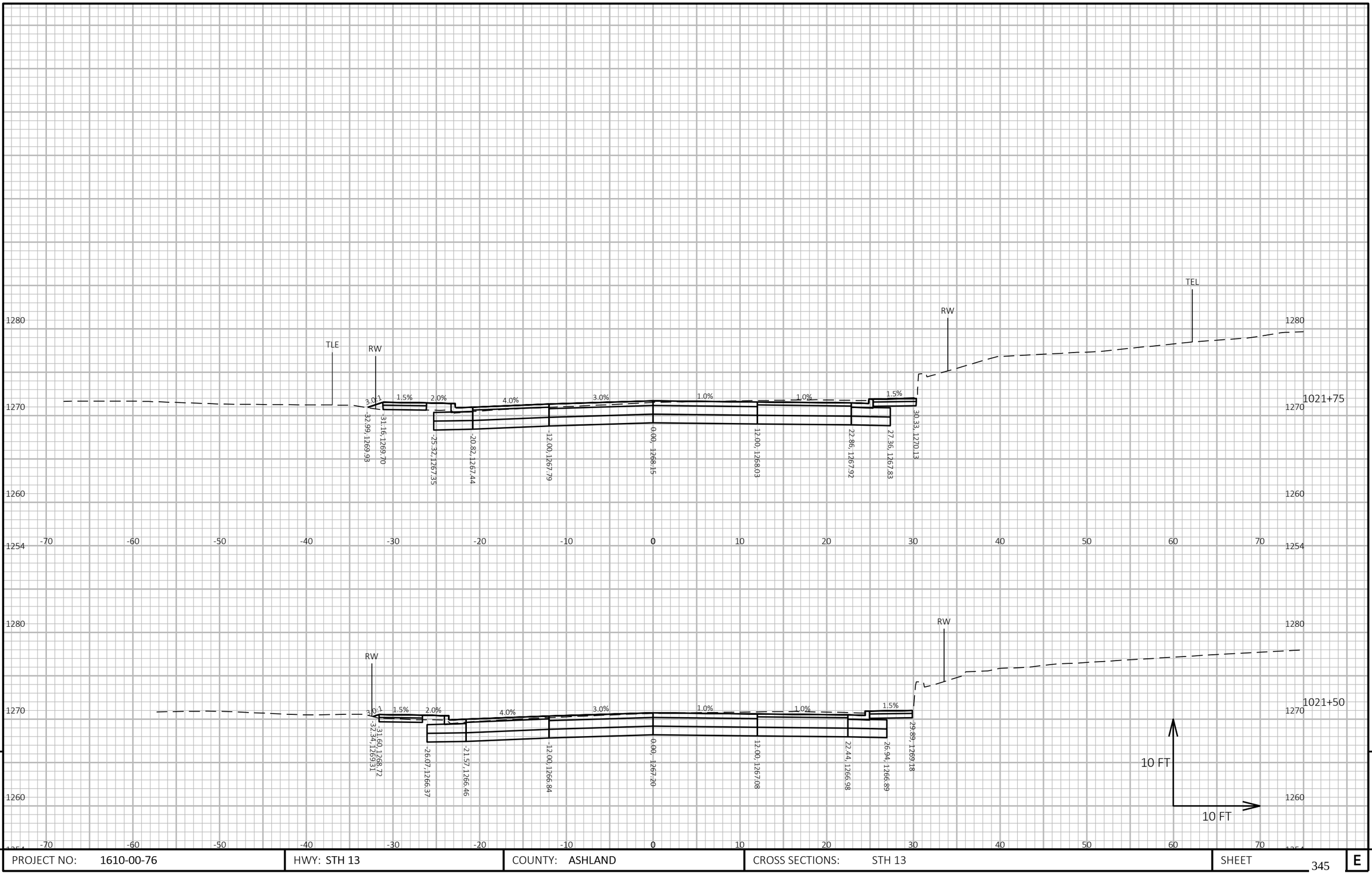


PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 344	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_ BRIDGE TO LAYMAN.DWG
LAYOUT NAME - XS - 065

PLOT DATE : 7/26/2022 4:13 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

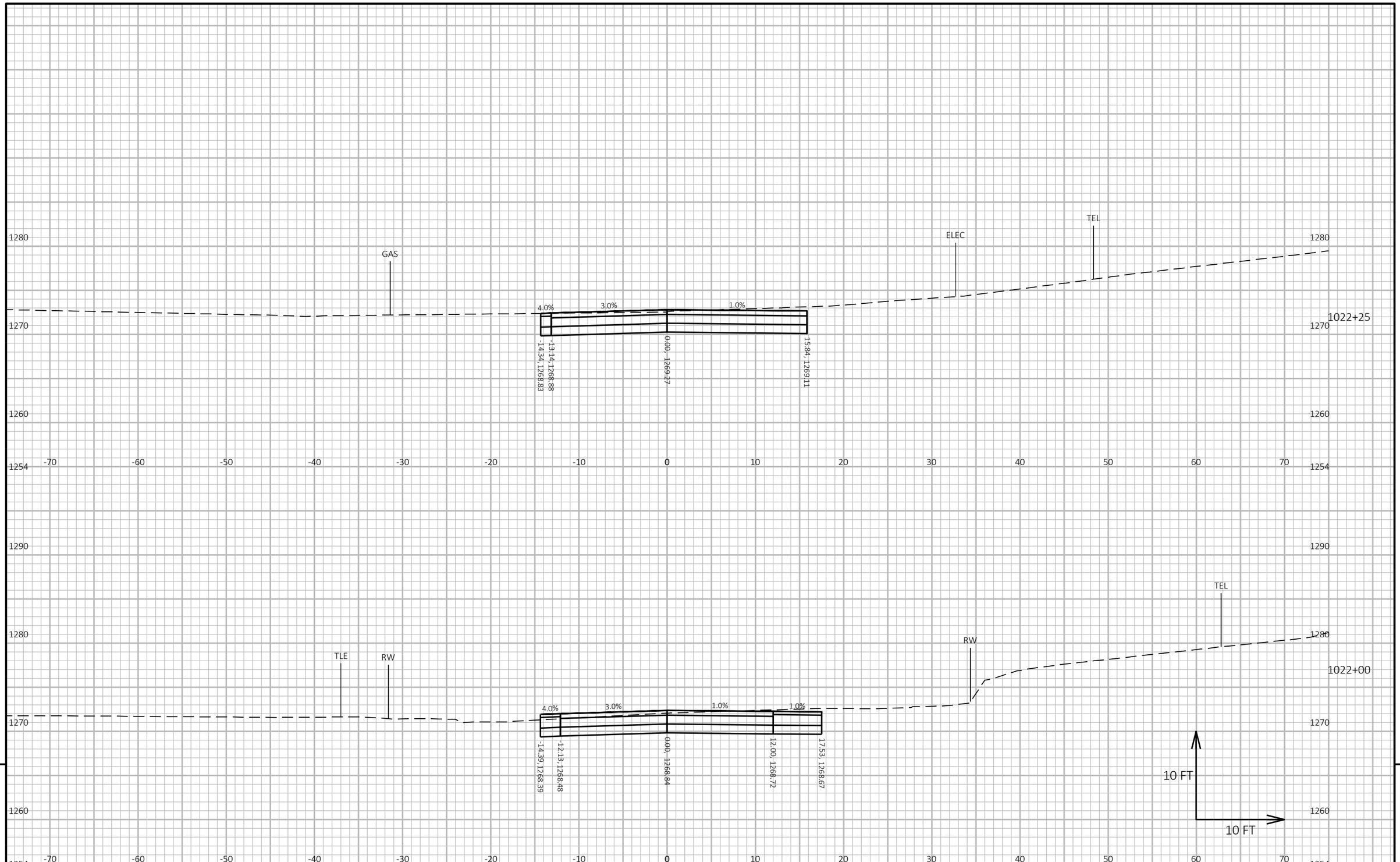
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PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 345	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_ BRIDGE TO LAYMAN.DWG
LAYOUT NAME - XS - 066

PLOT DATE : 7/26/2022 4:13 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 346	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_ BRIDGE TO LAYMAN.DWG
LAYOUT NAME - XS - 067

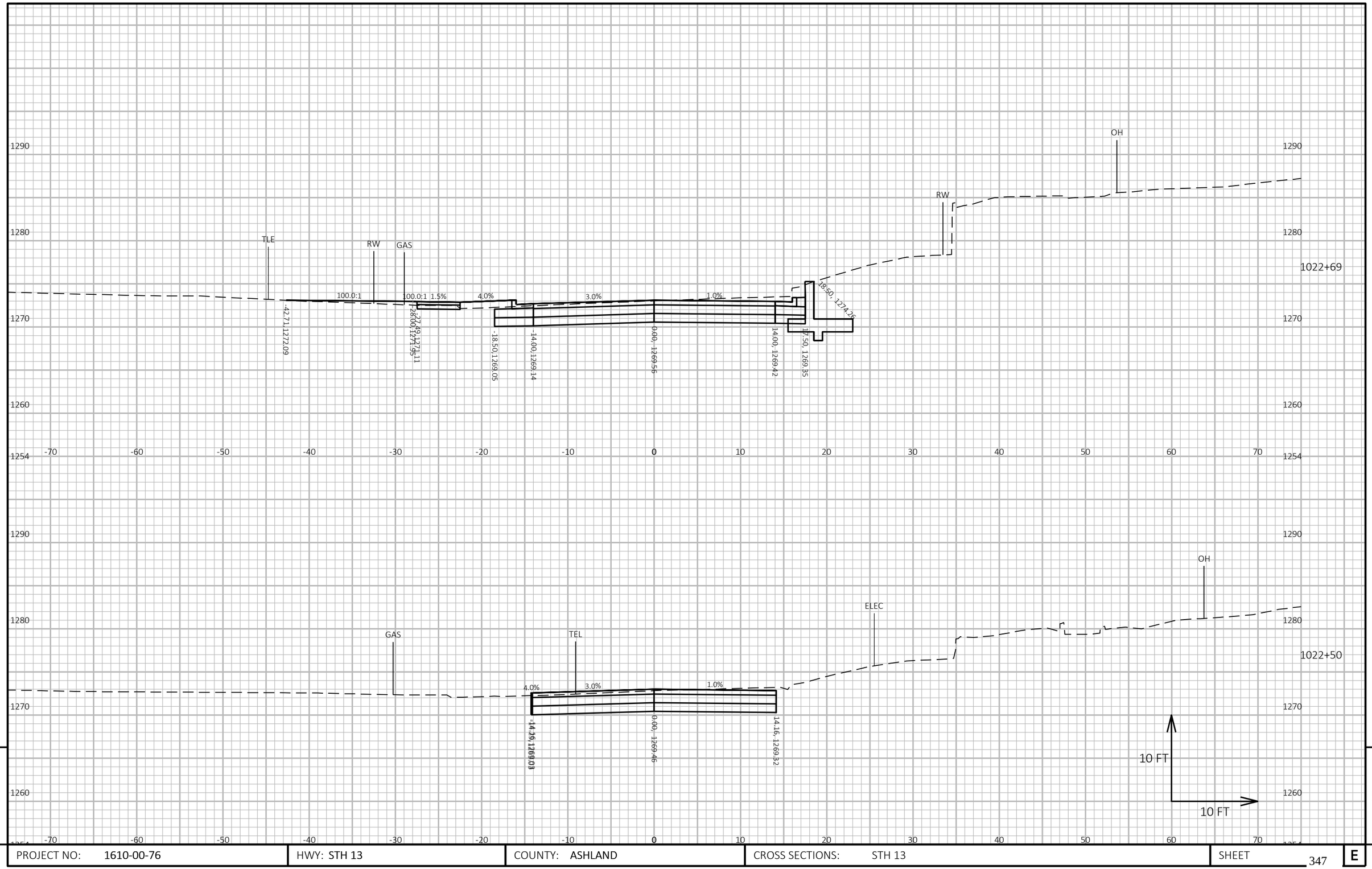
PLOT DATE : 7/26/2022 4:14 PM

PLOT BY : RESHESKE, CARRIE

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

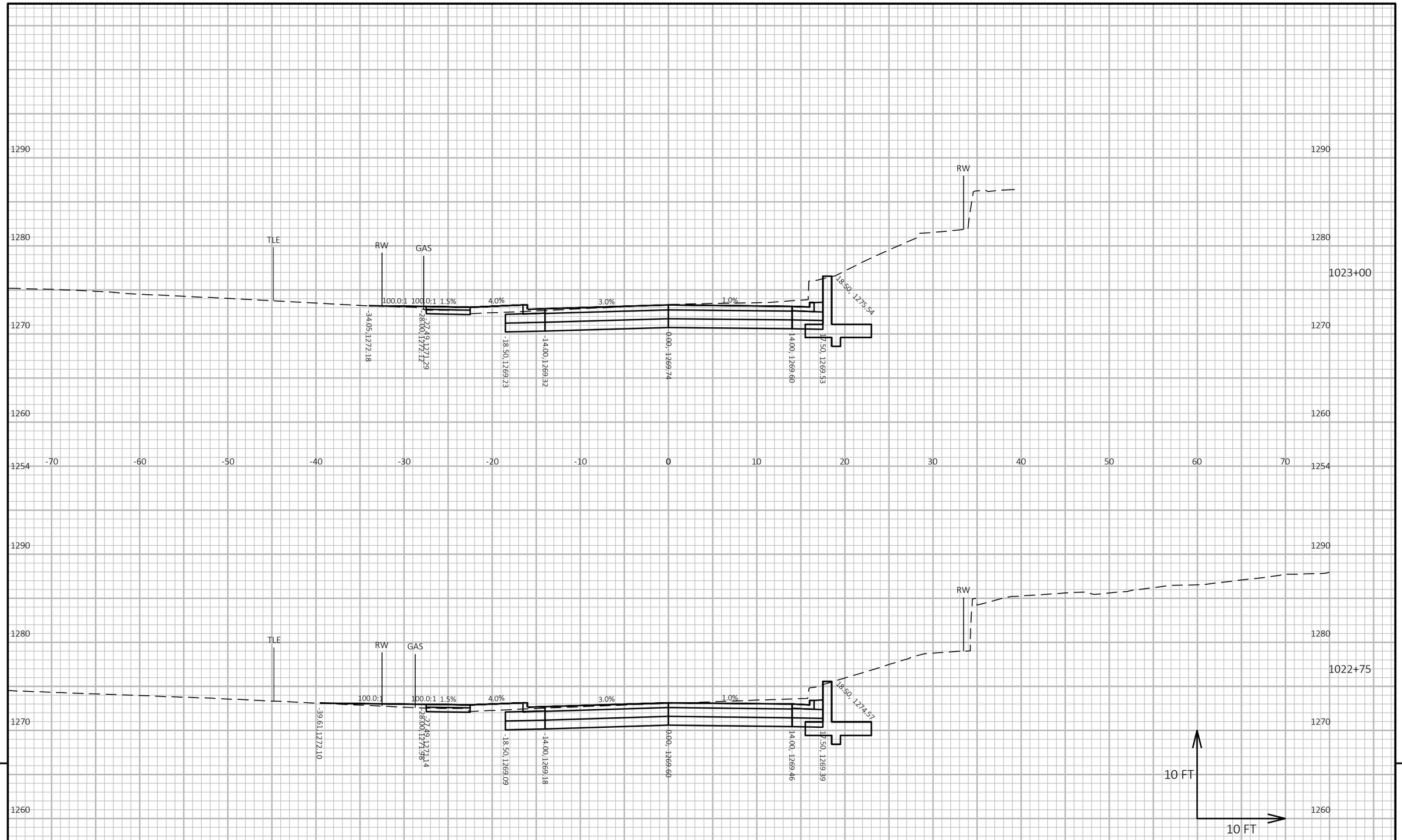


PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 347	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_ BRIDGE TO LAYMAN.DWG
LAYOUT NAME - XS - 068

PLOT DATE : 7/26/2022 4:14 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 348	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_ BRIDGE TO LAYMAN.DWG
LAYOUT NAME - XS - 069

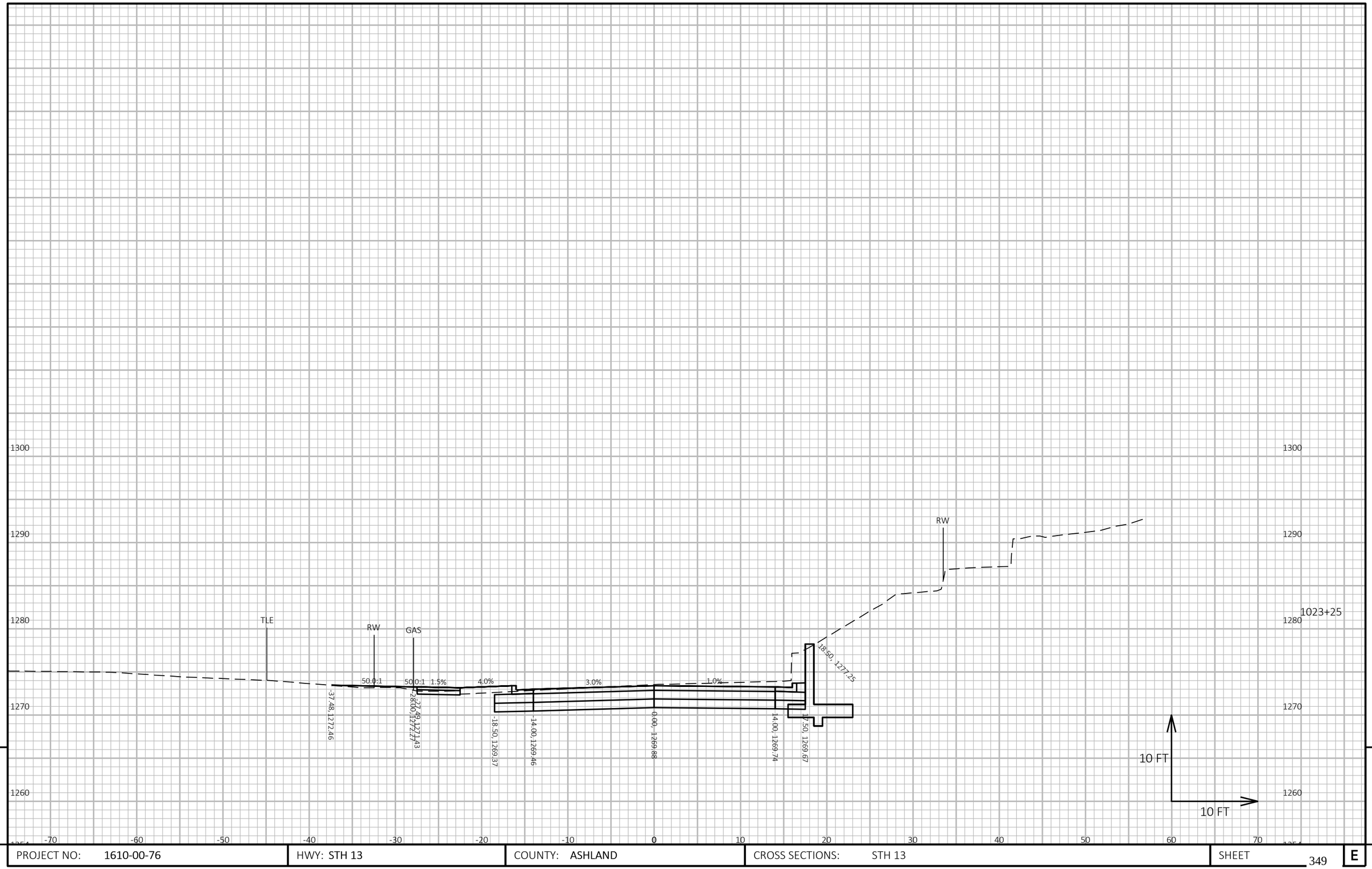
PLOT DATE : 7/26/2022 4:14 PM

PLOT BY : RESHESKE, CARRIE

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

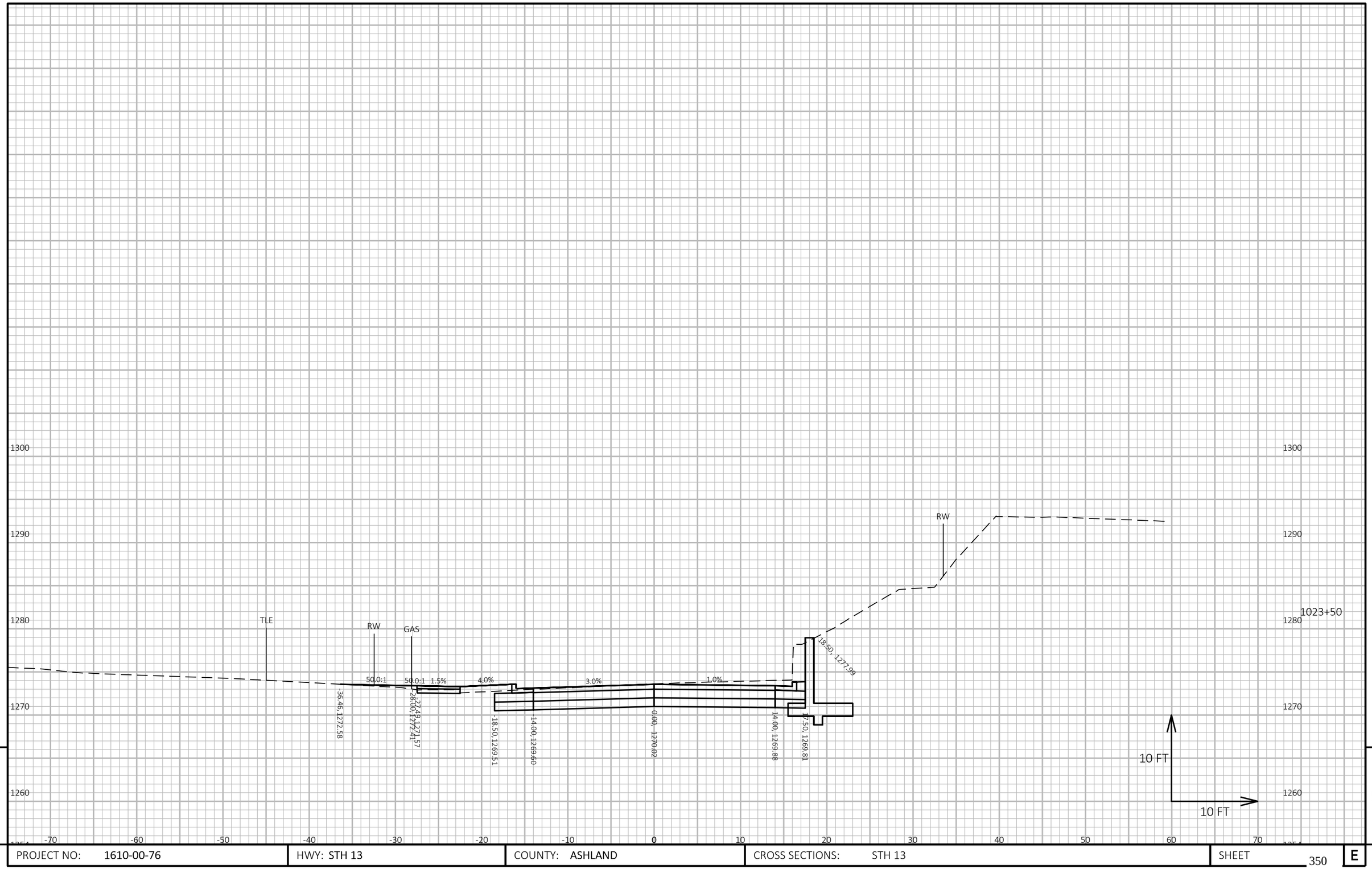


PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 349	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_ BRIDGE TO LAYMAN.DWG
LAYOUT NAME - XS - 070

PLOT DATE : 7/26/2022 4:14 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

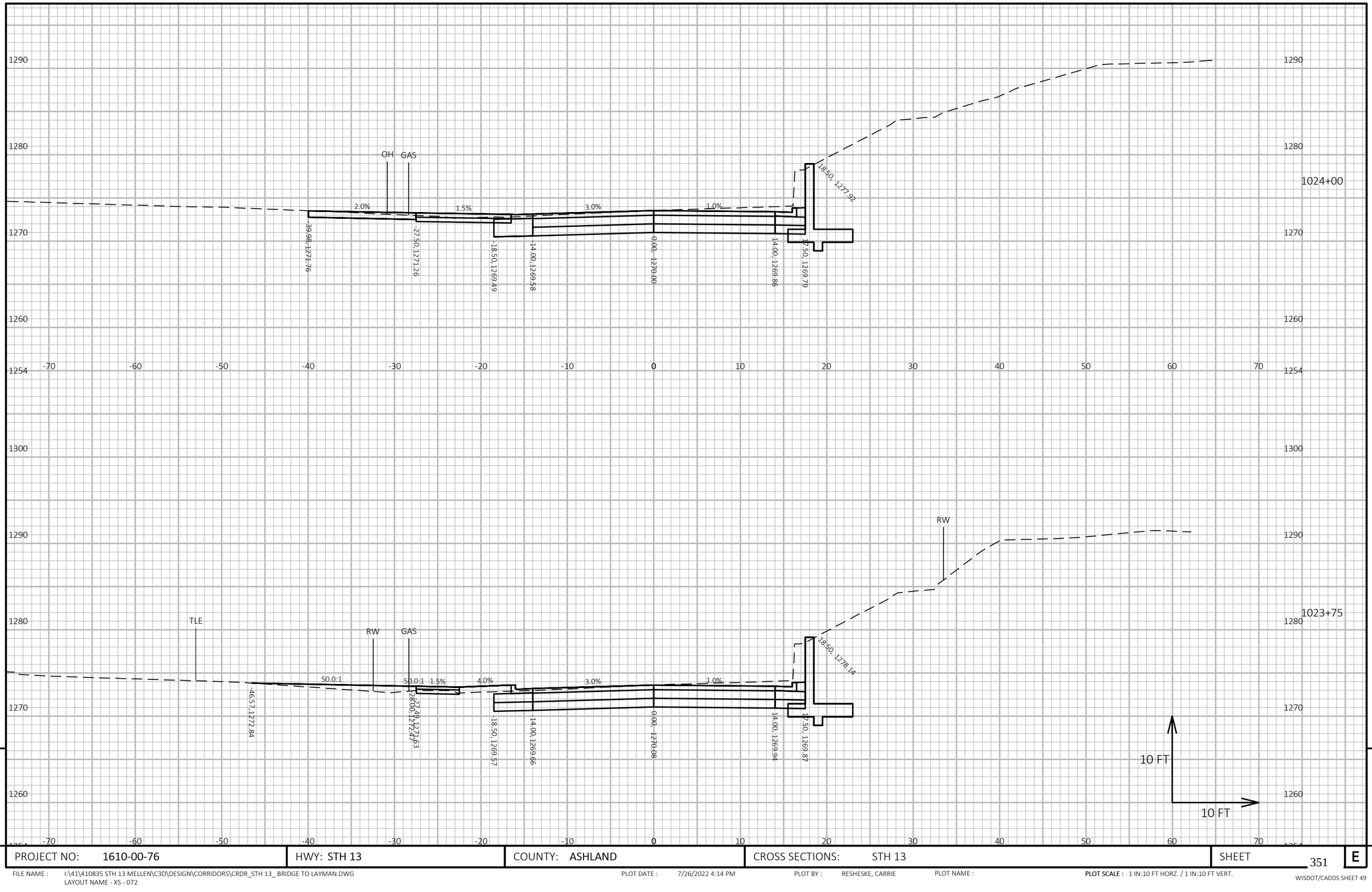
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PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 350	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_ BRIDGE TO LAYMAN.DWG
LAYOUT NAME - XS - 071

PLOT DATE : 7/26/2022 4:14 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 351	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_ BRIDGE TO LAYMAN.DWG
LAYOUT NAME - XS - 072

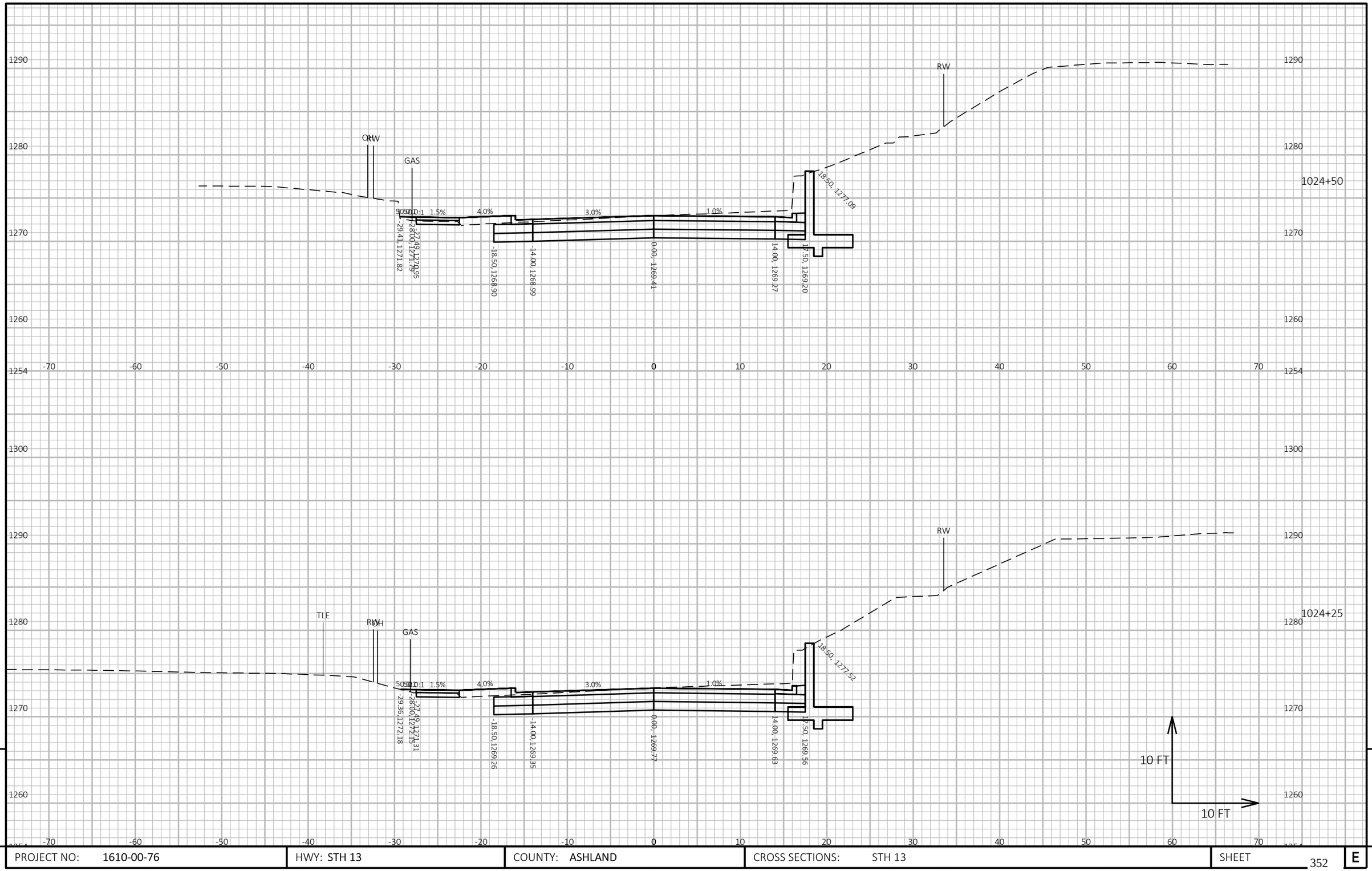
PLOT DATE : 7/26/2022 4:14 PM

PLOT BY : RESHESKE, CARRIE

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

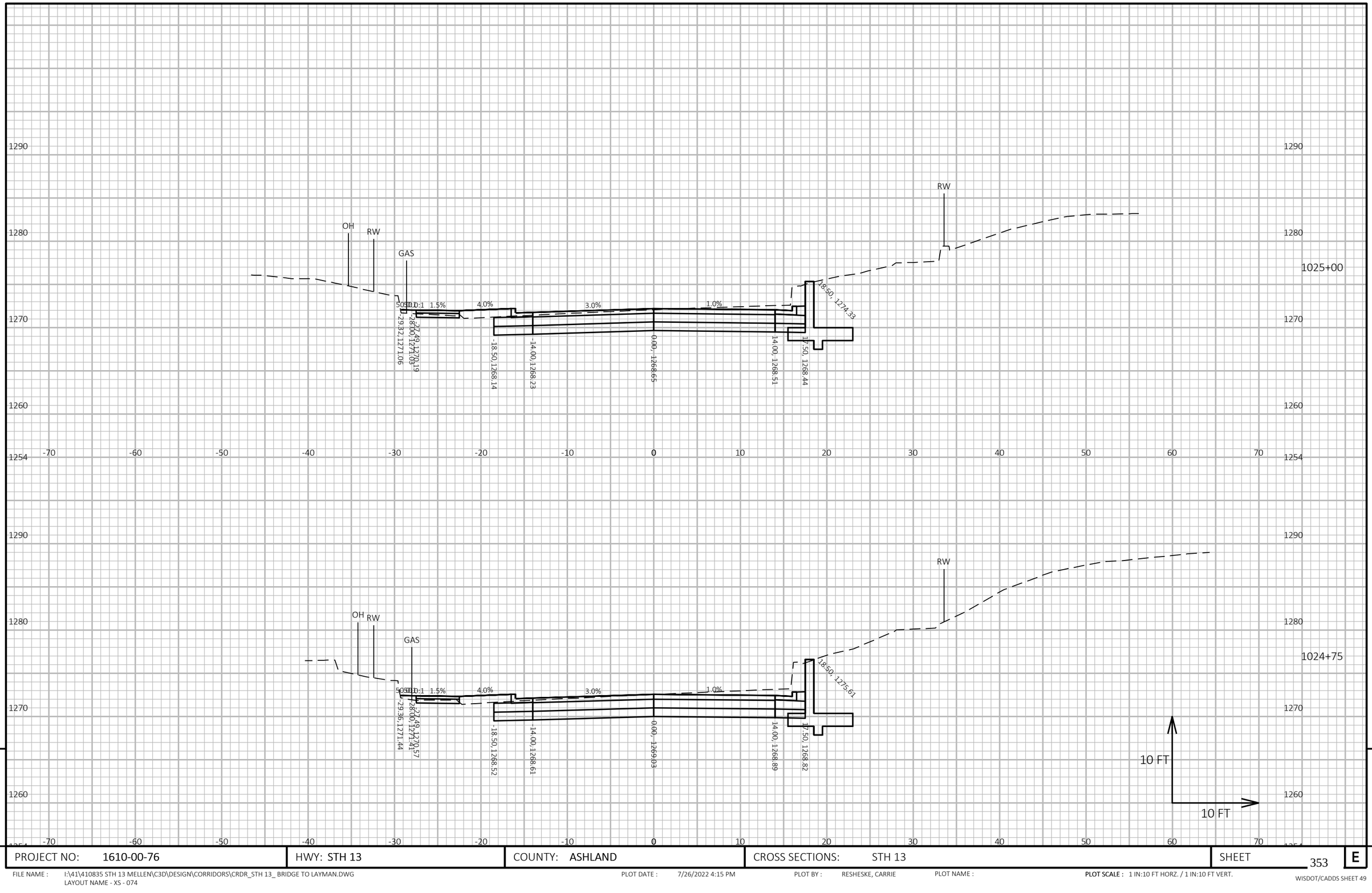


PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 352	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_ BRIDGE TO LAYMAN.DWG
LAYOUT NAME - XS - 073

PLOT DATE : 7/26/2022 4:15 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

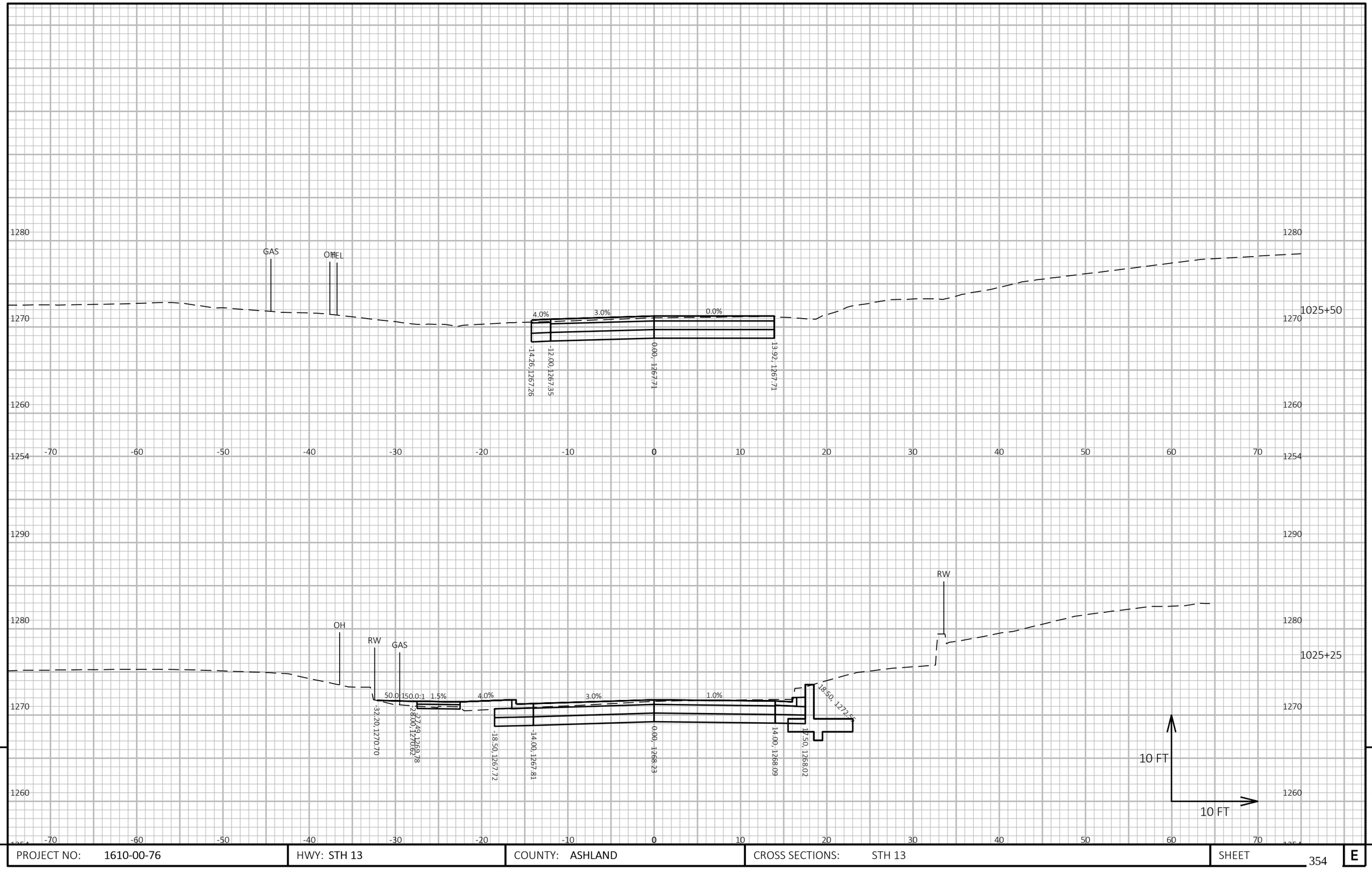
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PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 353	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_ BRIDGE TO LAYMAN.DWG
LAYOUT NAME - XS - 074

PLOT DATE : 7/26/2022 4:15 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

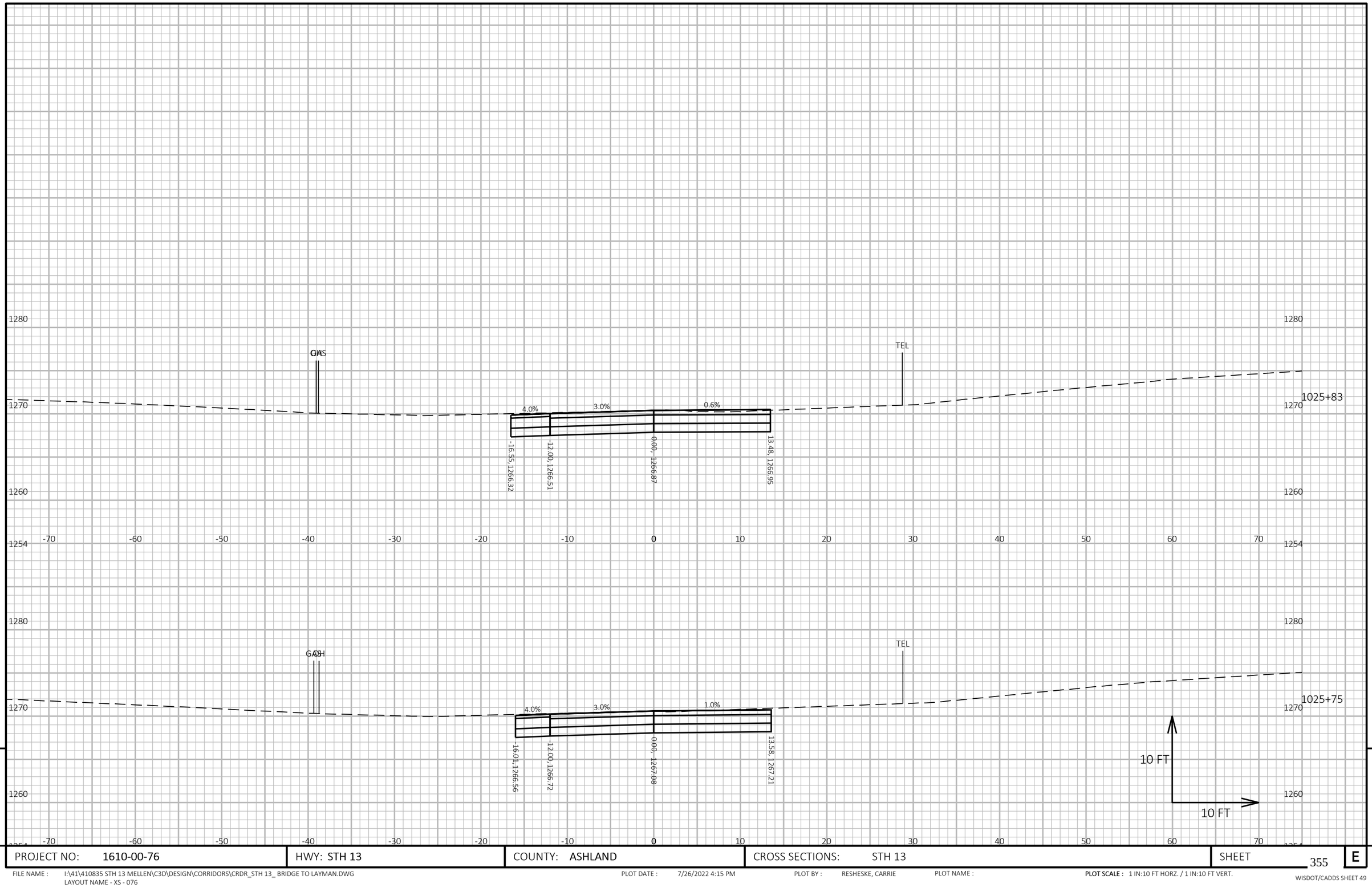


PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 354	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_ BRIDGE TO LAYMAN.DWG
LAYOUT NAME - XS - 075

PLOT DATE : 7/26/2022 4:15 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

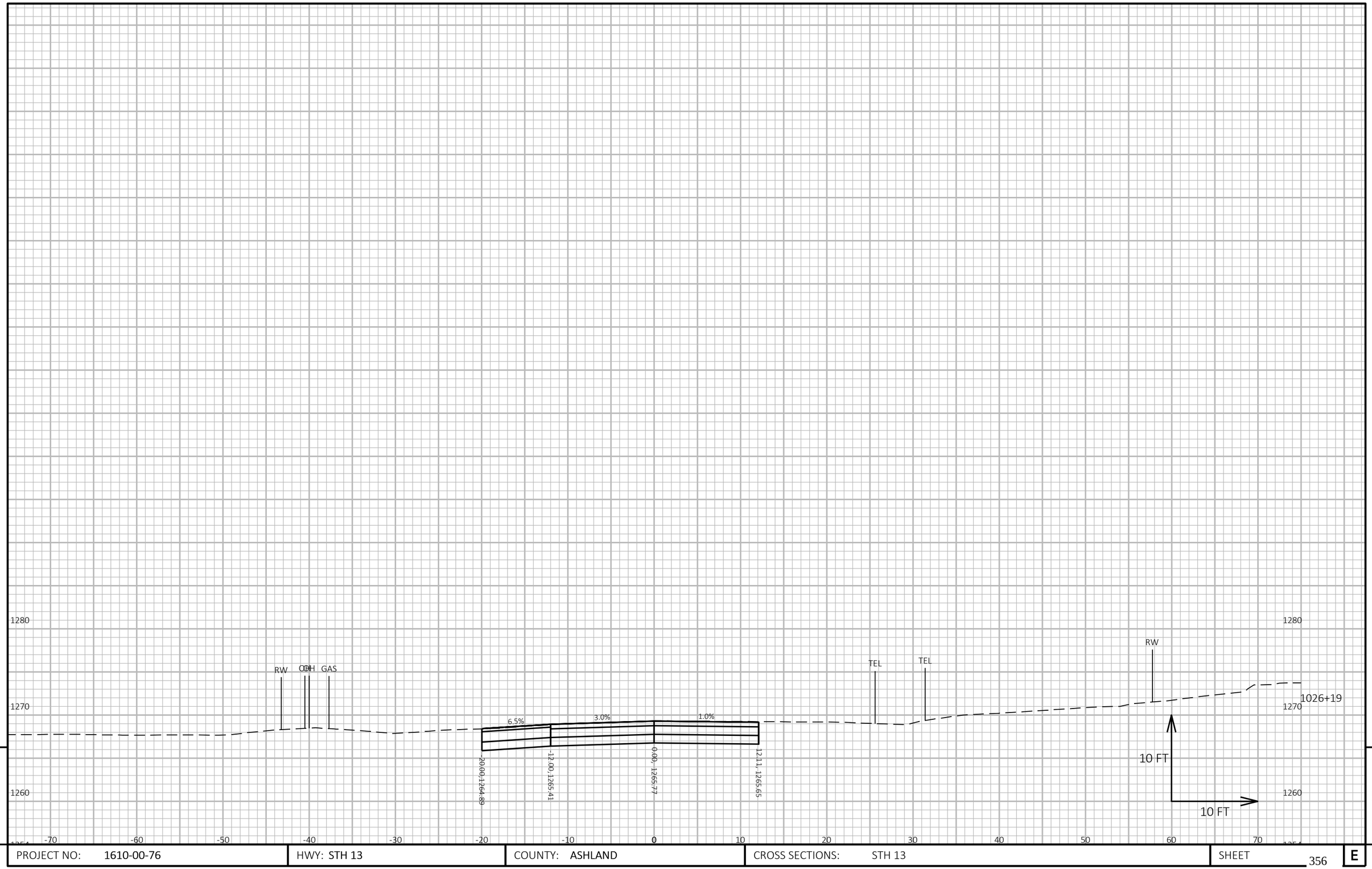
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PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 355	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_ BRIDGE TO LAYMAN.DWG
LAYOUT NAME - XS - 076

PLOT DATE : 7/26/2022 4:15 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



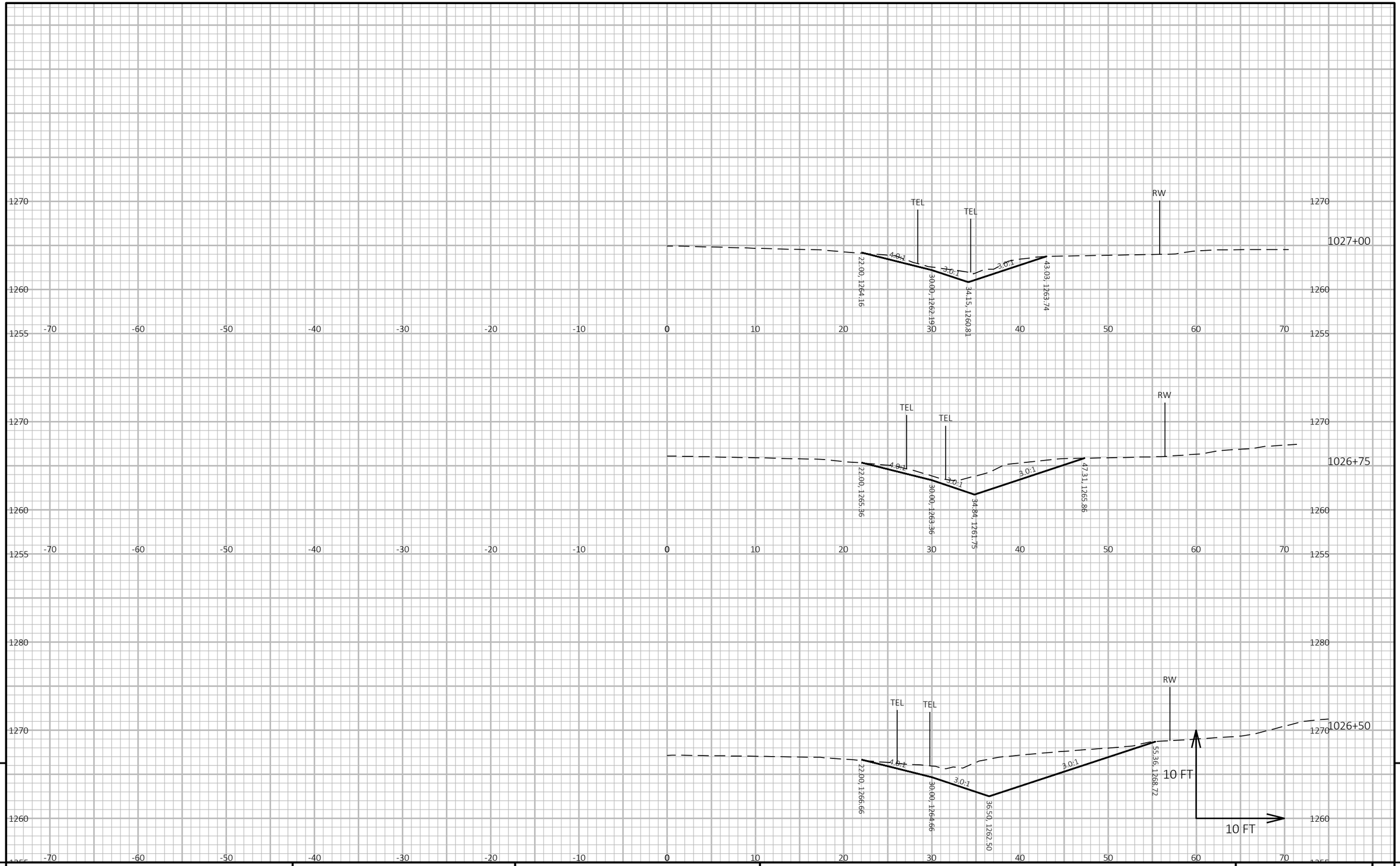
9 9

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13	SHEET 356	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13_ BRIDGE TO LAYMAN.DWG
LAYOUT NAME - XS - 077

PLOT DATE : 7/26/2022 4:15 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

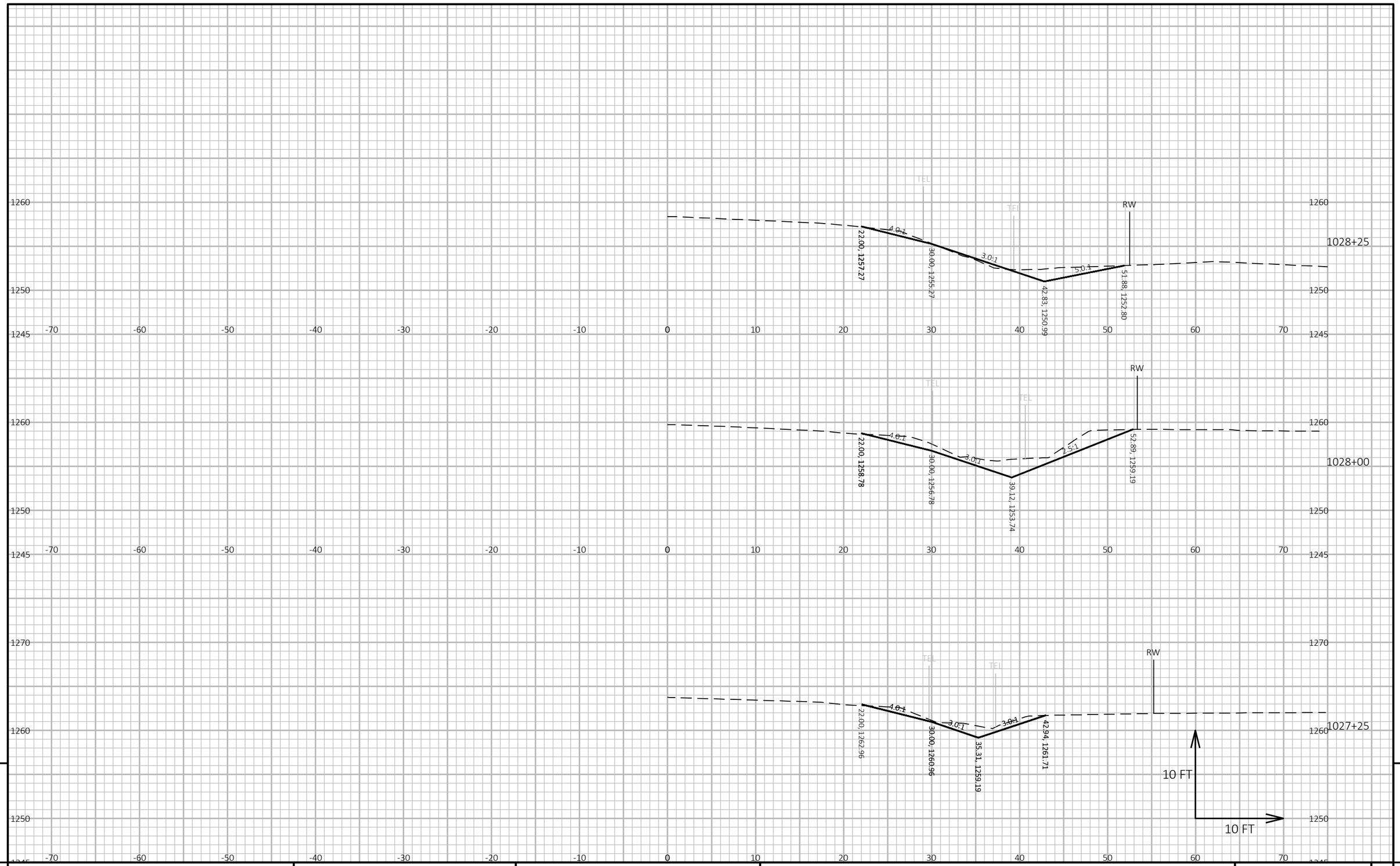
9

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 - DITCHING	SHEET 357	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13 LAYMAN TO NORTH_DITCHING.DWG
LAYOUT NAME - XS-1

PLOT DATE : 7/26/2022 4:18 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

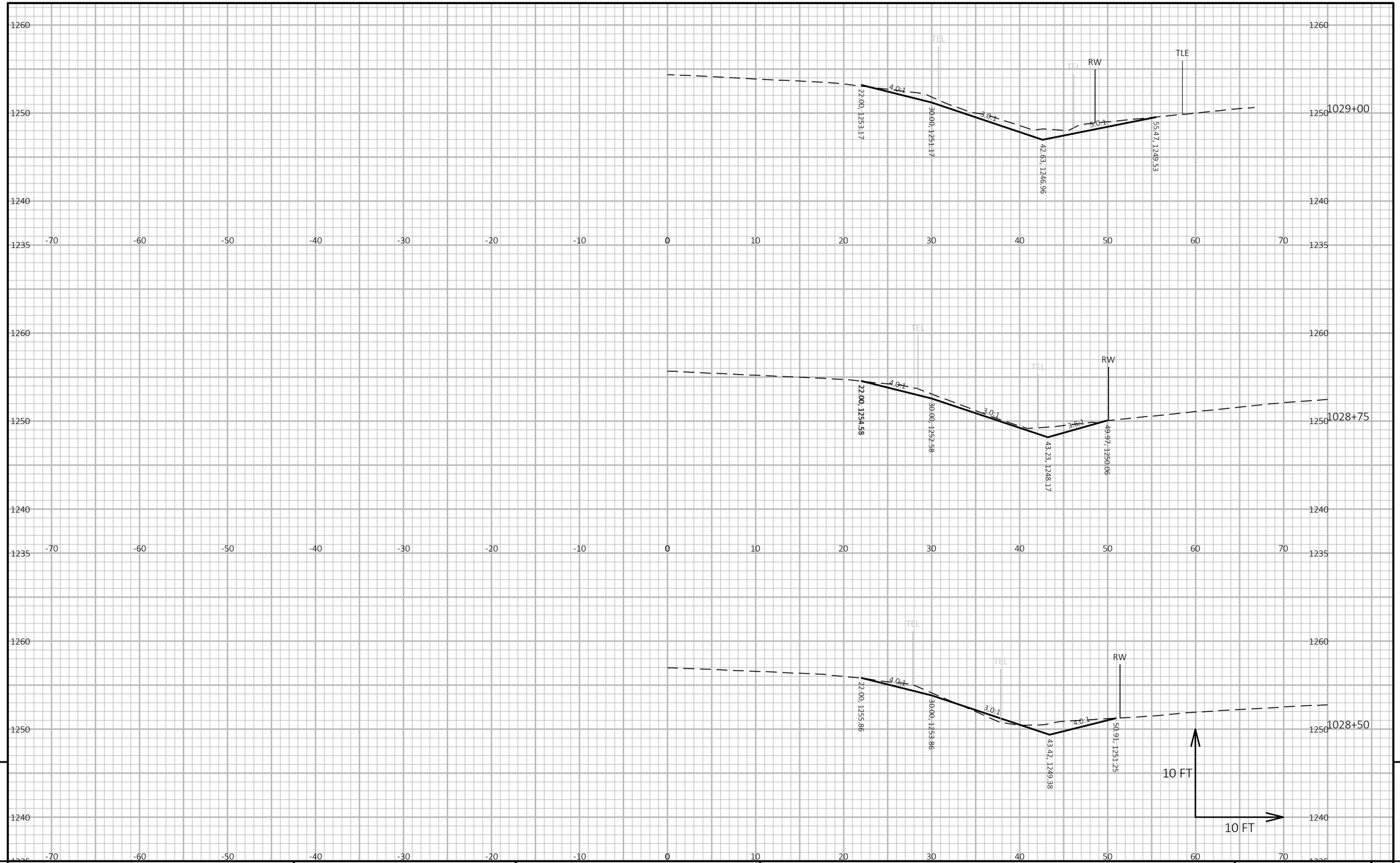
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PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 - DITCHING	SHEET 358	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13 LAYMAN TO NORTH_DITCHING.DWG
LAYOUT NAME - XS-2

PLOT DATE : 7/26/2022 4:18 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

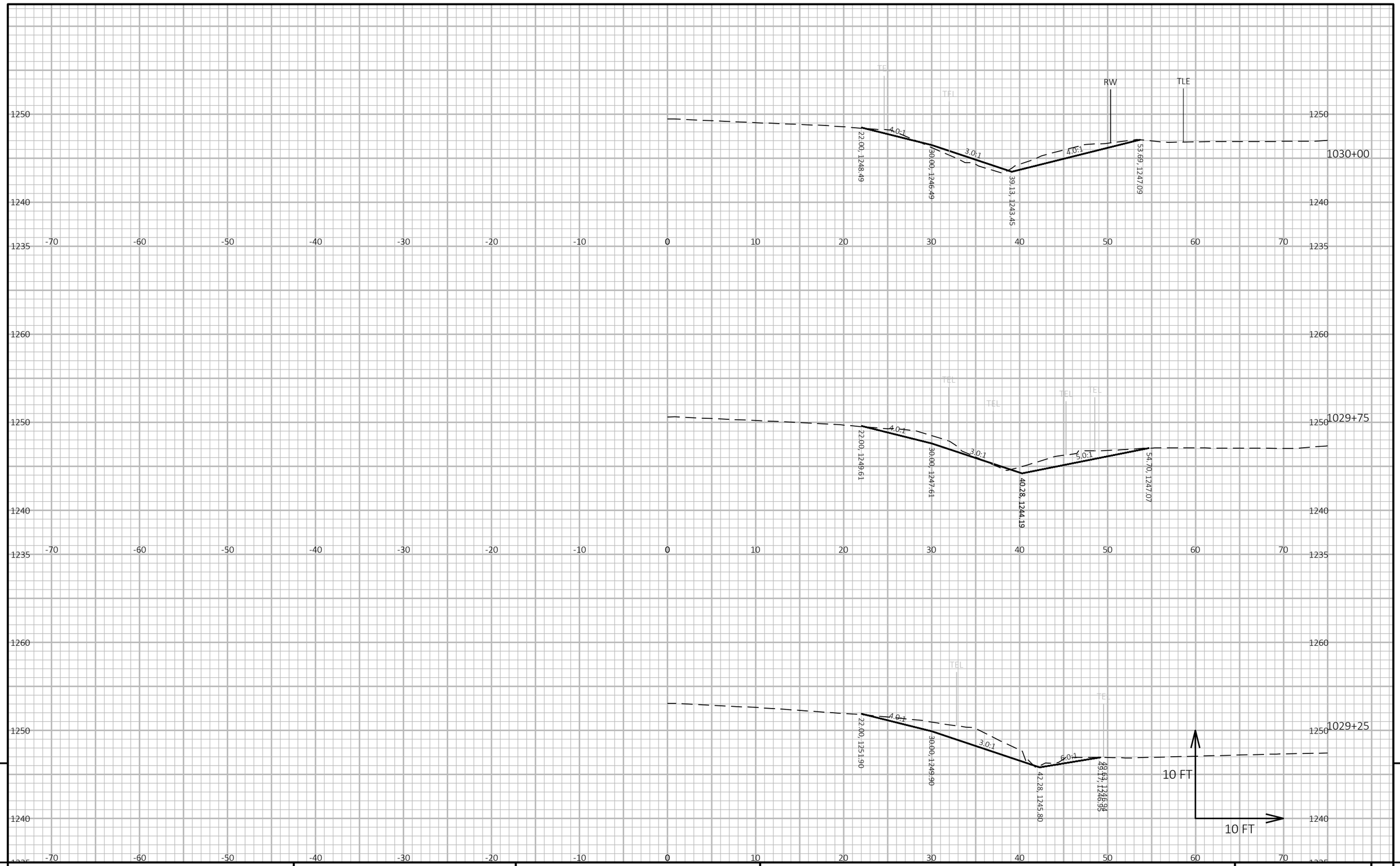
9

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 - DITCHING	SHEET 359	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13 LAYMAN TO NORTH_DITCHING.DWG
LAYOUT NAME - XS-3

PLOT DATE : 7/26/2022 4:18 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

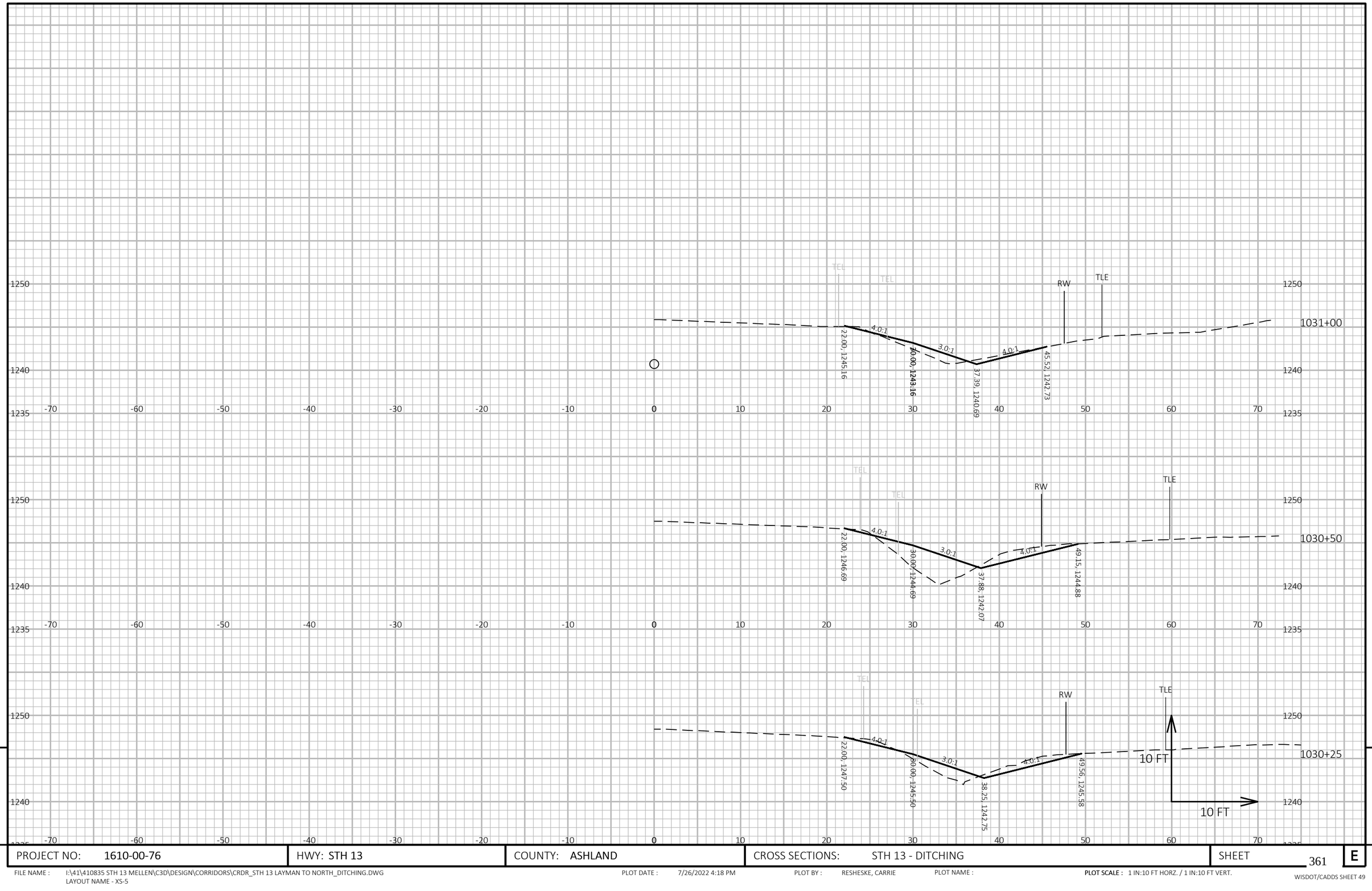
9

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 - DITCHING	SHEET 360	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13 LAYMAN TO NORTH_DITCHING.DWG
LAYOUT NAME - XS-4

PLOT DATE : 7/26/2022 4:18 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

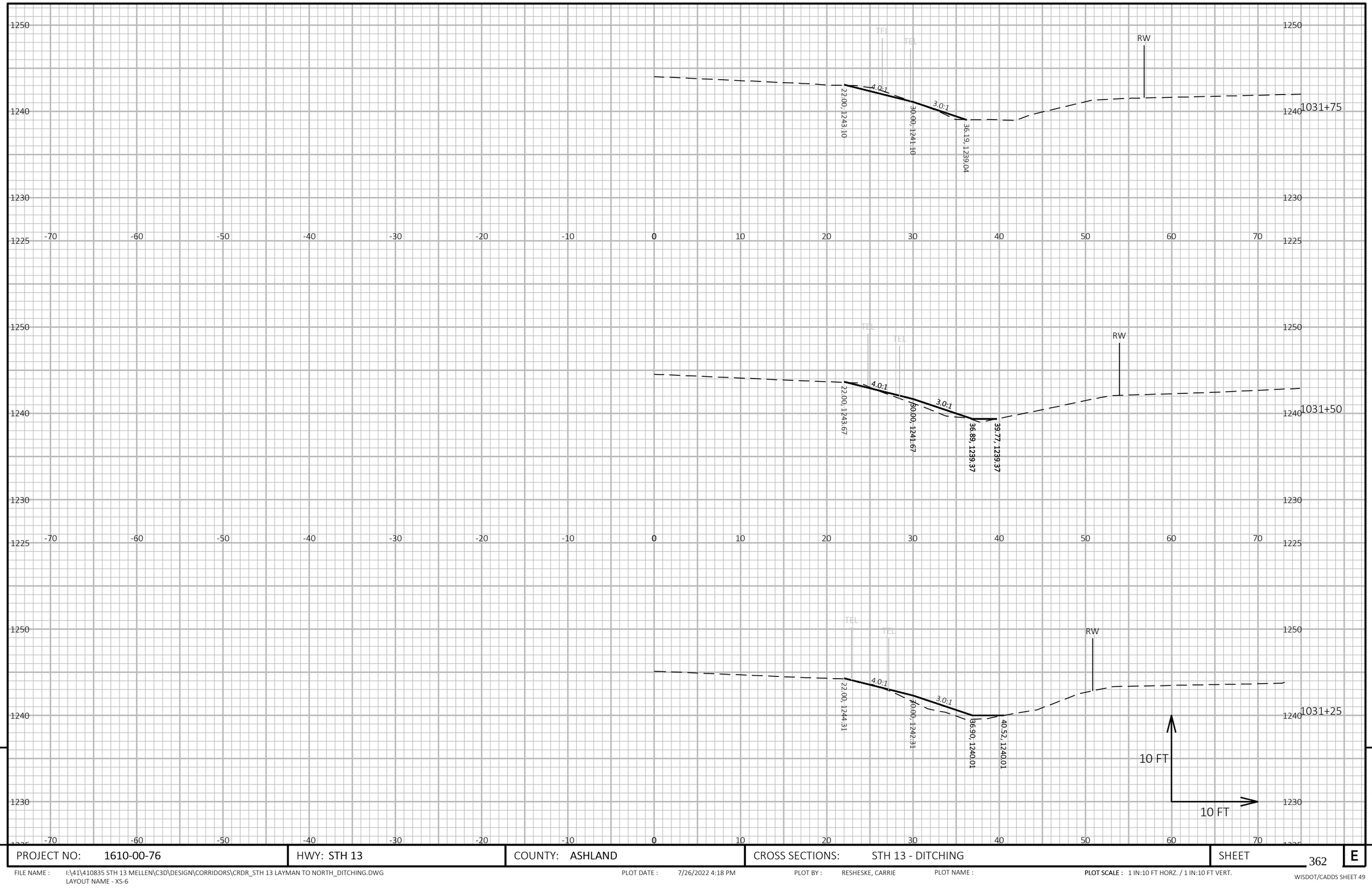
PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 - DITCHING	SHEET 361	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13 LAYMAN TO NORTH_DITCHING.DWG
LAYOUT NAME - XS-5

PLOT DATE : 7/26/2022 4:18 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

9



9

9

PROJECT NO: 1610-00-76	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 - DITCHING	SHEET 362	E

FILE NAME : I:\41\410835 STH 13 MELLEN\C3D\DESIGN\CORRIDORS\CRDR_STH 13 LAYMAN TO NORTH_DITCHING.DWG
LAYOUT NAME - XS-6

PLOT DATE : 7/26/2022 4:18 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

Notes

Wisconsin Department of Transportation

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