RHI JULY 2020

PROJECT ID: 9650-17-61, 9650-17-70

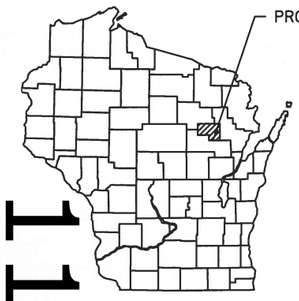
WITH: N/A

COUNTY: MENOMINEE

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 = 638



DESIGN DESIGNATION

A.A.D.T.	2019	= 6,660
A.A.D.T.	2039	= 7,860
D.H.V.		= 4.8
D.D.		= 60/40
T.		= 5.7%
DESIGN SPEED		= 35-45
ESALS		= 590,000

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
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE

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

UTILITIES

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
9650-17-61	WISC 2020351	1
9650-17-70	WISC 2020356	1

SHAWANO - NEOPIT
WOLF RIVER BRIDGE B-73-0004

STH 47
MENOMINEE COUNTY

STATE PROJECT NUMBER
9650-17-61

SHAWANO - NEOPIT
DUQUAINE ROAD TO N JCT COUNTY VV

STH 47
MENOMINEE COUNTY

STATE PROJECT NUMBER
9650-17-70

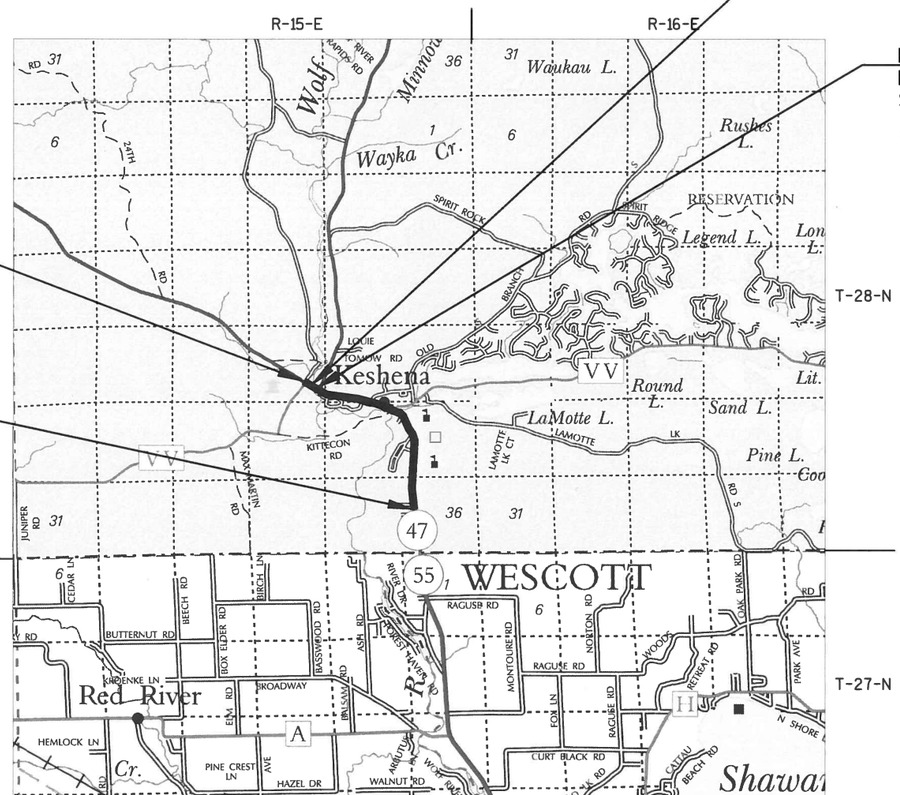
END PROJECT 9650-17-61
BEGIN CONSTRUCTION 9650-17-70
STA 215+66.41

END CONSTRUCTION 9650-17-70
BEGIN PROJECT 9650-17-61
STA 212+12.34
Y = 62,513.537
X = 284,269.878

END PROJECT 9650-17-70
STA 221+50.00

BEGIN PROJECT 9650-17-70
STA 82+45.00
Y = 54,257.932
X = 291,002.644

MENOMINEE CO
SHAWANO CO



LAYOUT
SCALE 0 1 MI

TOTAL NET LENGTH OF CENTERLINE (9650-17-61) = 0.000 MI
TOTAL NET LENGTH OF CENTERLINE (9650-17-70) = 2.566 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES MENOMINEE 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. ELEVATIONS ON THE PLAN ARE REFERENCED TO NAVD 88.

ORIGINAL PLANS PREPARED BY

AECOM

WISCONSIN
RYAN N. BARZ
E-37634
AMHERST
WI
PROFESSIONAL ENGINEER

1/21/20 (Date) (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	WisDOT
Designer	AECOM
Project Manager	DAN ERVA
Regional Examiner	CHERYL SIMON
Regional Supervisor	JED PETERS
C.O. Examiner	

APPROVED FOR THE DEPARTMENT
DATE: 1/22/2020 (Signature)

E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0101_TI.DWG PLOT DATE : 1/20/2020 4:16 PM PLOT BY : DOLAN, ISAAC PLOT NAME :

GENERAL NOTES

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

NO TREES OR SHRUBS ARE TO BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE FIRST BEEN INDICATED FOR REMOVAL BY THE ENGINEER IN THE FIELD AND BY THE TRIBAL HISTORIC PRESERVATION OFFICE, DAVID GRIGNON.

CURVE DATA IS BASED ON THE ARC DEFINITION.

ALL RADIUS DIMENSIONS ON THE PLAN FOR CURB AND GUTTER ARE TO THE FLANGE LINE, UNLESS OTHERWISE NOTED.

ALL ELEVATIONS ON THE PLAN FOR CURB AND GUTTER ARE TO THE FLANGE LINE, UNLESS OTHERWISE NOTED.

THE ENTIRE STH 47 ROADWAY IS WITHIN TRIBAL LAND EASEMENT. THERE IS TO BE NO WORK OUTSIDE OF THE SLOPE INTERCEPTS WITHOUT APPROVAL OF THE ENGINEER IN THE FIELD AND THE TRIBAL HISTORIC PRESERVATION OFFICER.

FOR TOPSOIL PLACEMENT PURPOSES, RURAL AREAS ARE IDENTIFIED AS NORTH OF BLACKSMITH ROAD AND URBAN AREAS ARE IDENTIFIED AS SOUTH OF BLACKSMITH ROAD.

DISTURBED AREAS WITHIN THE RIGHT OF WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE RESTORED AS SHOWN IN THE PLAN.

STORM SEWER GENERAL NOTES

OFFSETS TO INLETS AND MANHOLES SHOWN ON THE STORM SEWER DETAILS ARE TO THE CENTER OF THE STRUCTURE OPENING UNLESS NOTED OTHERWISE.

OFFSETS TO APRON ENDWALLS SHOWN ON THE STORM SEWER DETAILS ARE AT THE END OF STORM SEWER PIPE.

ELEVATIONS FOR MANHOLES SHOWN ON STORM SEWER DETAILS ARE FINISHED ROADWAY ELEVATION. ELEVATIONS FOR INLETS ARE FLANGE ELEVATION (SEE DETAILS).

STORM SEWER PIPE SLOPES ARE CALCULATED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.

INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD AND MODIFIED IF NECESSARY TO MEET EXISTING CONDITIONS.

UTILITY CONTACTS

ELECTRIC:

BILL BASTIAN
WISCONSIN POWER AND LIGHT COMPANY (ALLIANT ENERGY)
883 W. SCOTT STREET
FOND DU LAC, WI 54937
OFFICE: 920-322-6716
EMAIL: WILLIAMBASTIAN@ALLIANTENERGY.COM

COMMUNICATION:

RUDI RUDIGER
CHARTER COMMUNICATIONS
5024 HEFFRON STREET
STEVENS POINT, WI 54481
MOBILE: 715-204-5339
EMAIL: RUDI.RUDIGER@CHARTER.COM

COMMUNICATION:

CALVIN KLADE
FRONTIER COMMUNICATIONS OF WISCONSIN LLC
1851 N. 14TH AVENUE
WAUSAU, WI 54401
OFFICE: 715-847-1525
MOBILE: 715-573-2110
EMAIL: CALVIN.KLADE@FTR.COM

WATER & SANITARY:

MARLIN WAUPOOSE
MENOMINEE INDIAN TRIBE OF WISCONSIN UTILITIES
PO BOX 250
KESHENA, WI 54135
OFFICE: 715-799-3587
EMAIL: MWAUPOOSE@MITW.ORG

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

RUNOFF COEFFICIENT TABLE

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

TOTAL PROJECT AREA = 37.583 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 25.964 ACRES

ORDER OF SECTION 2 SHEETS

PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
- DRAINAGE DITCHES
- SURFACE DRAINS
- GUARDRAIL LAYOUT
- PAVEMENT TRANSITION
- CONCRETE STEPS

REMOVALS
LAYOUT
CURB RAMPS
PAVING GRADES
EROSION CONTROL
STORM SEWER
UTILITY IMPROVEMENTS
LIGHTING REMOVAL
LIGHTING
PERMANENT SIGNING AND PAVEMENT MARKING
TRAFFIC CONTROL AND CONSTRUCTION STAGING
DETOUR
ALIGNMENT DIAGRAM

MENOMINEE TRIBAL CONTACTS

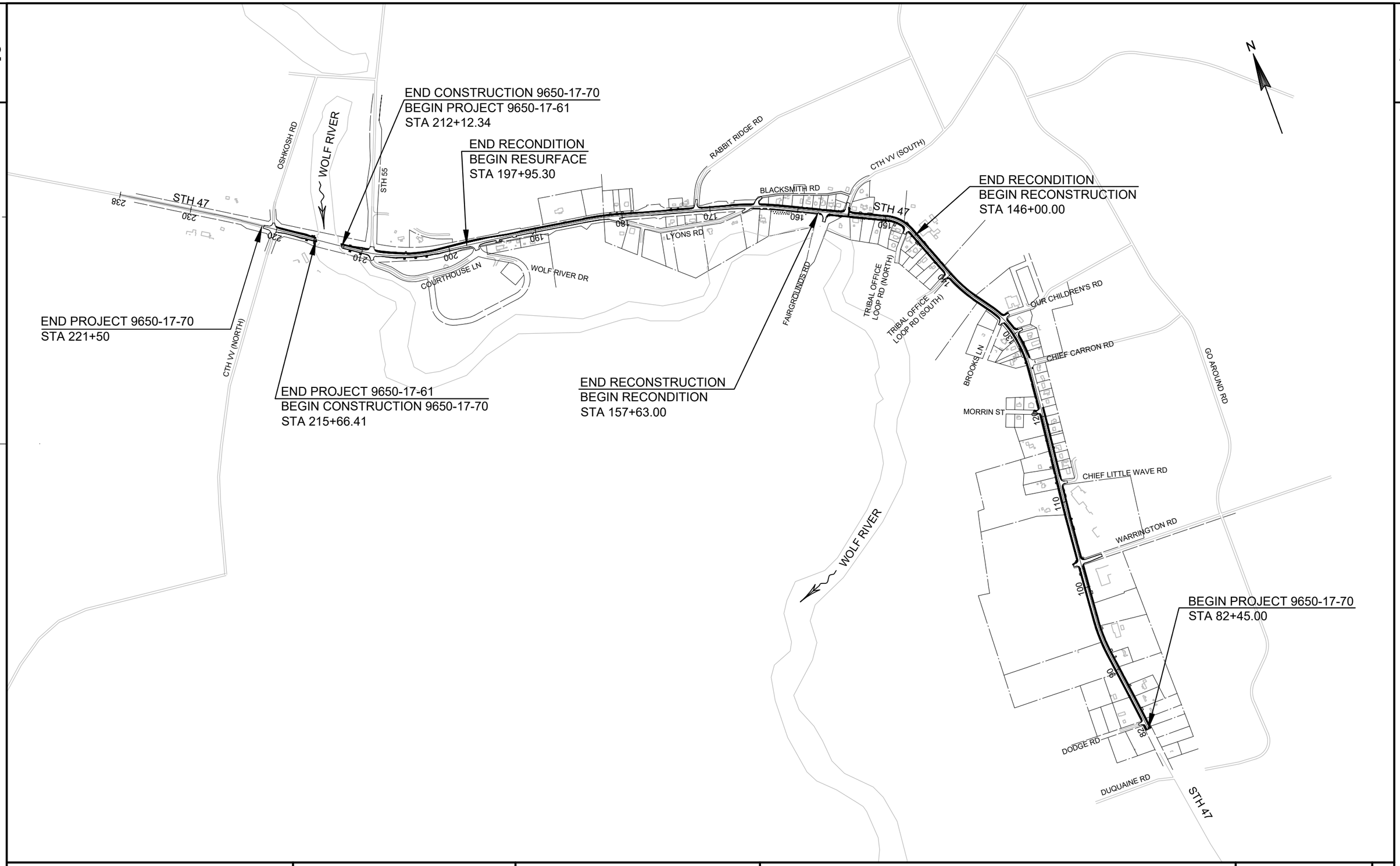
MENOMINEE INDIAN TRIBE OF WISCONSIN
COMMUNITY DEVELOPMENT OFFICE
PO BOX 910
KESHENA, WI 54135
OFFICE: 715-799-5155
FAX: 715-799-5183
EMAIL: CCCHAPMAN@MITW.ORG

MENOMINEE INDIAN TRIBE OF WISCONSIN
TRIBAL ENVIRONMENTAL CONTACT
ATTN: DOUG COX
PO BOX 910
KESHENA, WI 54135
OFFICE: 715-799-4937
EMAIL: DGCOX@MITW.ORG

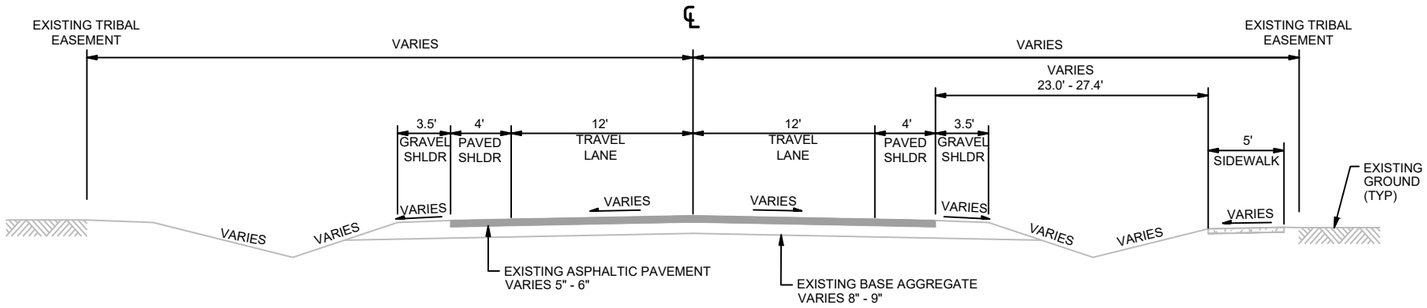
MENOMINEE INDIAN TRIBE OF WISCONSIN
TRIBAL HISTORICAL PRESERVATION OFFICER
ATTN: DAVE GRIGNON
PO BOX 910
KESHENA, WI 54135
OFFICE: 715-799-5258
EMAIL: DGRIGNON@MITW.ORG

DNR LIAISON

WISCONSIN DEPARTMENT OF NATURAL RESOURCES (DNR)
ATTN: JIM DOPERALSKI JR.
2984 SHAWANO AVENUE
GREEN BAY, WI 54313-6727
OFFICE: 920-412-0165
EMAIL: JAMES.DOPERALSKI@WISCONSIN.GOV

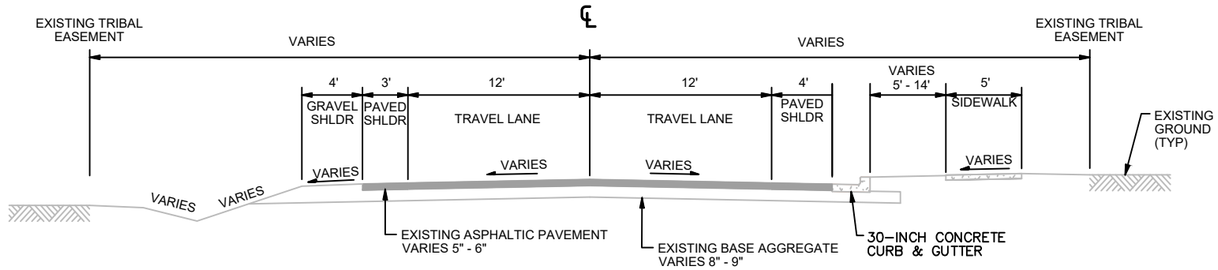


PROJECT NO: 9650-17-61/70	HWY: STH 47	COUNTY: MENOMINEE	PROJECT OVERVIEW	SHEET 3	E



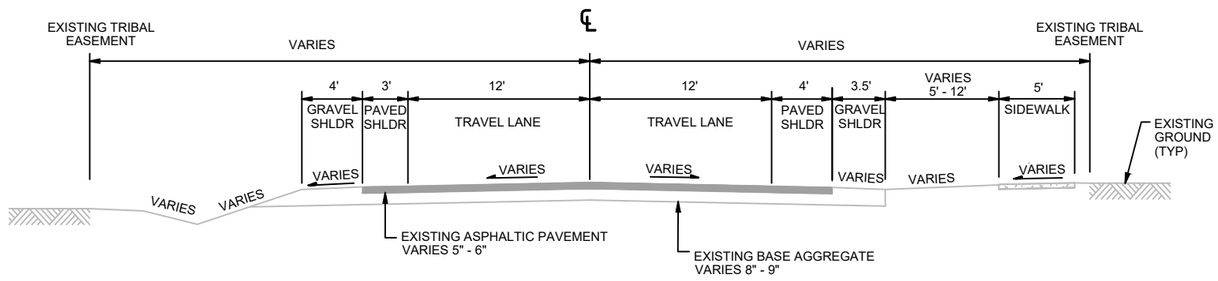
TYPICAL EXISTING SECTION - STH 47

STA 82+45 - STA 109+75



TYPICAL EXISTING SECTION - STH 47

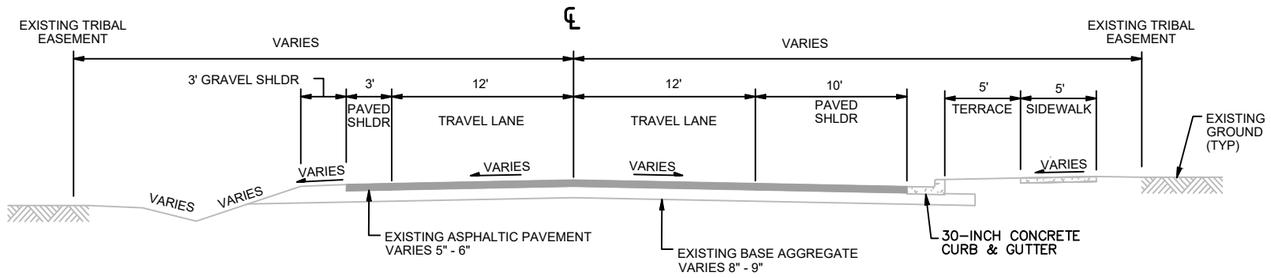
STA 109+75 - STA 126+75



TYPICAL EXISTING SECTION - STH 47

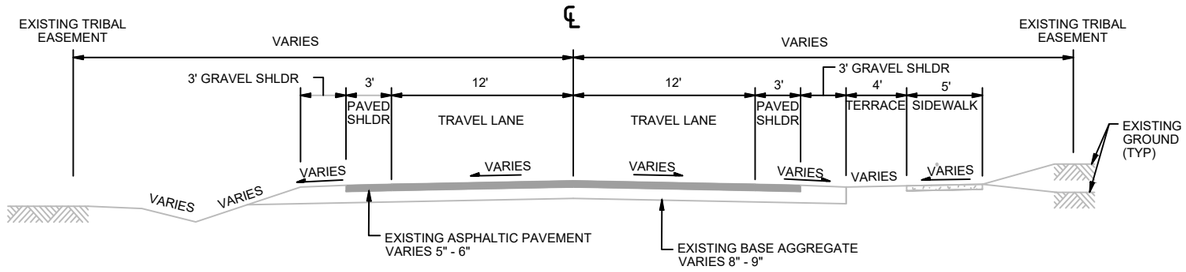
STA 126+75 - STA 130+50

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	TYPICAL SECTIONS	SHEET 4	E



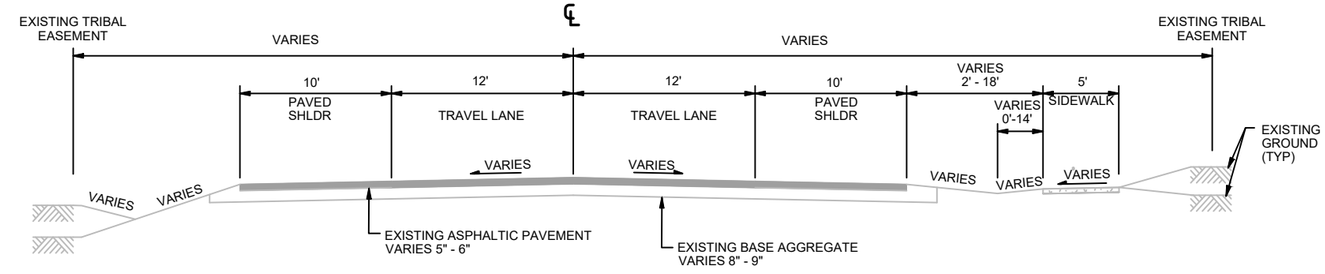
TYPICAL EXISTING SECTION - STH 47

STA 130+50 - STA 135+75



TYPICAL EXISTING SECTION - STH 47

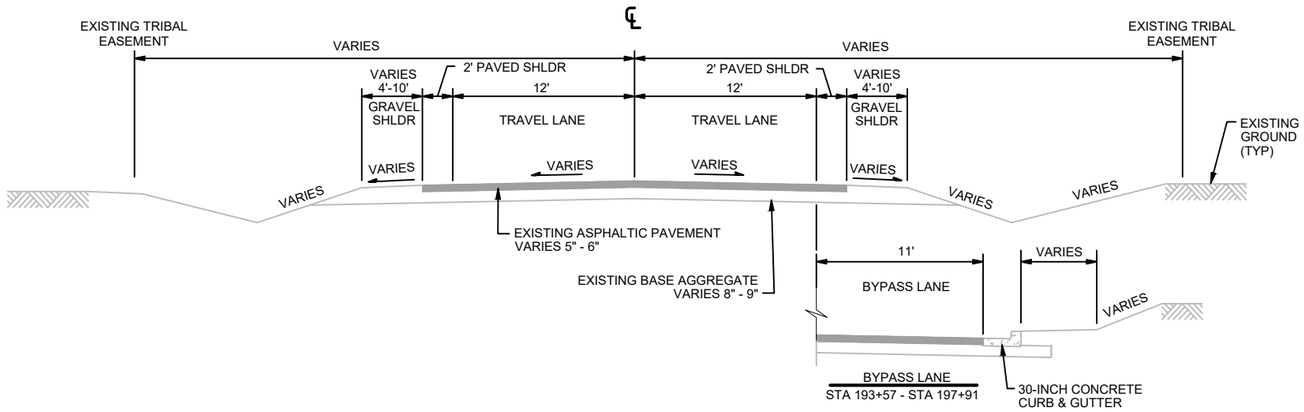
STA 135+75 - STA 147+40



TYPICAL EXISTING SECTION - STH 47

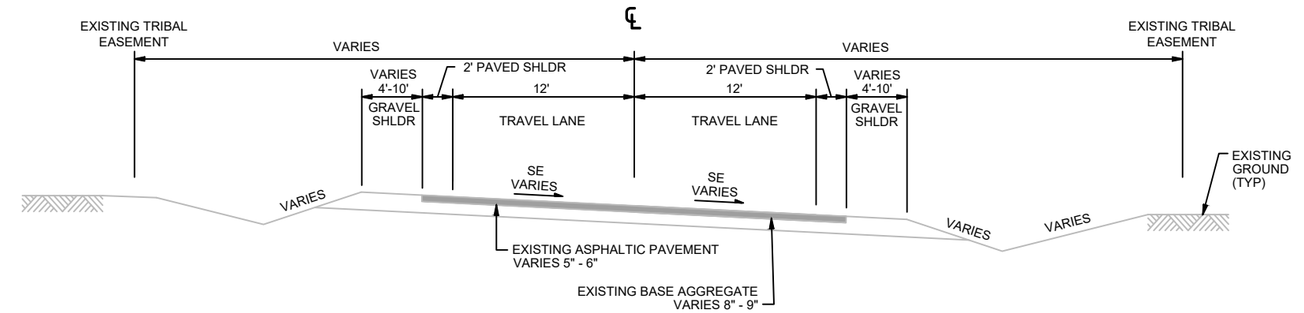
STA 147+40 - STA 165+50

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	TYPICAL SECTIONS	SHEET 5	E



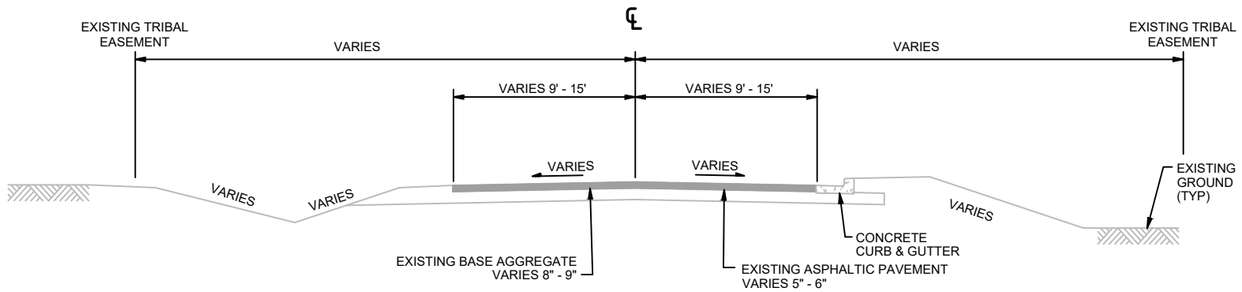
TYPICAL EXISTING SECTION - STH 47

STA 165+50 - STA 179+30
STA 185+17 - STA 221+50



TYPICAL SUPERELEVATED EXISTING SECTION - STH 47

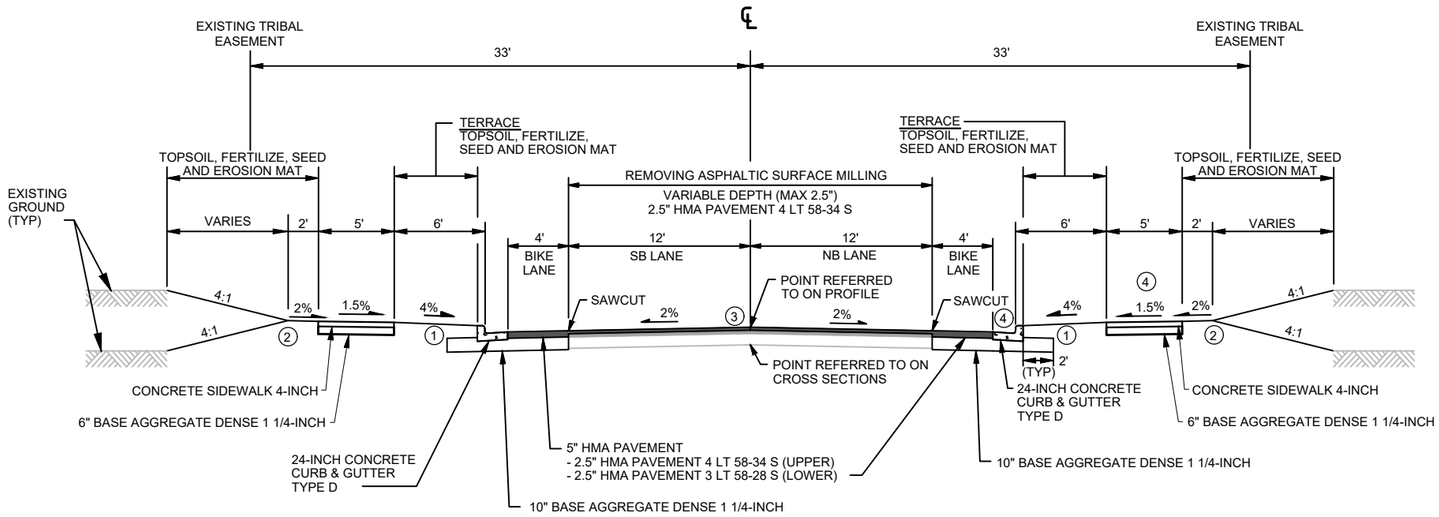
STA 179+30 - STA 185+17



TYPICAL EXISTING SECTION - SIDE ROADS

DODGE RD
WARRINGTON RD
CHIEF LITTLE WAVE RD
MORRIN ST
CHIEF CARRON RD
WOLF CT
OUR CHILDREN'S RD
BROOKS LN
TRIBAL OFFICE LOOP RD (SOUTH)
TRIBAL OFFICE LOOP RD (NORTH)
CTH VV (SOUTH)
FAIRGROUNDS RD
BLACKSMITH RD
LYONS RD (SOUTH)
RABBIT RIDGE RD
LYONS RD (NORTH)
WOLF RIVER DR
COURTHOUSE LN
STH 55
CTH VV (NORTH)
OSHKOSH RD

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	TYPICAL SECTIONS	SHEET 6	E



TYPICAL FINISHED SECTION - STH 47

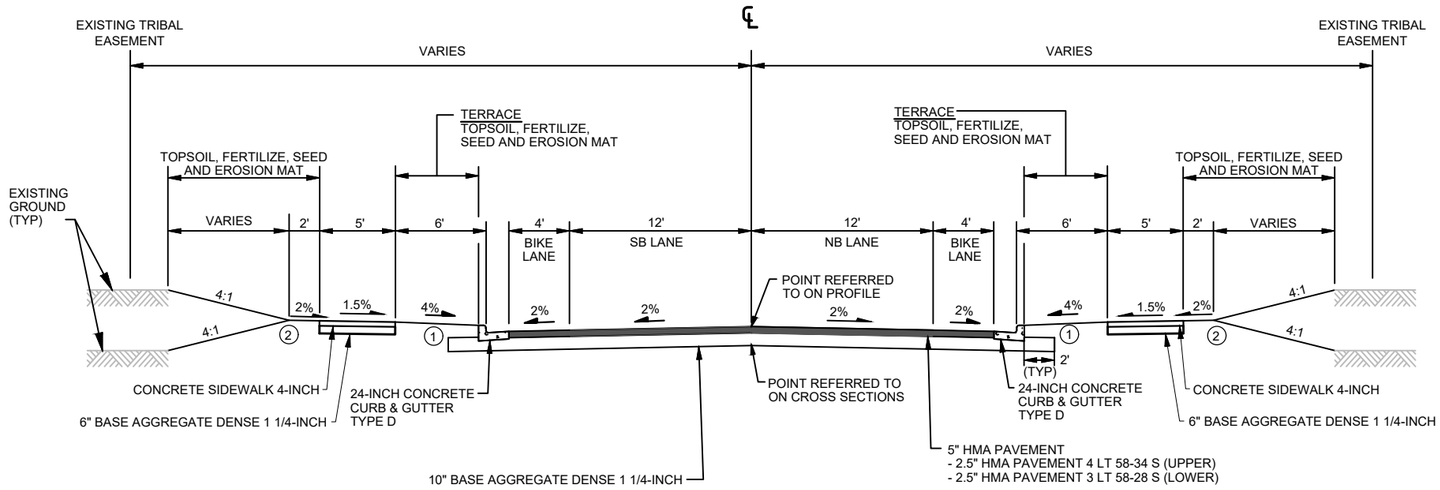
STA 82+45.0 - STA 146+00.0

(1) STA 82+45 - STA 165+00
USE SEED NO. 30 WITH EROSION MAT URBAN CLASS I TYPE A IN TERRACE ON DISTURBED AREAS RECEIVING TOPSOIL. USE SPECIAL PROVISION "PREPARING TOPSOIL FOR LAWN TYPE TURF".

(2) STA 82+45 - STA 165+00
USE SEED NO. 40 WITH EROSION MAT URBAN CLASS I TYPE A BEHIND THE SIDEWALK ON ALL DISTURBED AREAS RECEIVING TOPSOIL. USE SPECIAL PROVISION "PREPARING TOPSOIL FOR LAWN TYPE TURF".

(3) STA 82+45 - STA 197+95.30
2.5" MILLING DEPTH TO BE MEASURED OFF OF CURB AND GUTTER.

(4) STA 121+00 - STA 126+85 RT
EXISTING 24-INCH CURB & GUTTER AND SIDEWALK TO REMAIN.

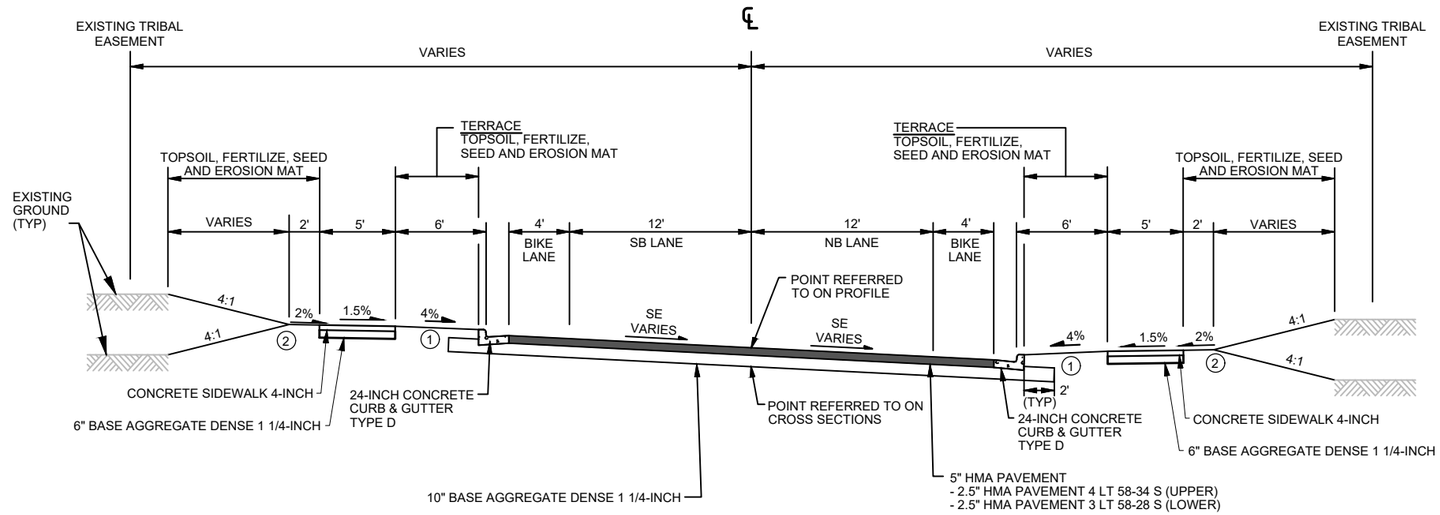


TYPICAL FINISHED SECTION - STH 47

STA 146+00 - STA 146+10
STA 150+51 - STA 157+63

(1) STA 82+45 - STA 165+00
USE SEED NO. 30 WITH EROSION MAT URBAN CLASS I TYPE A IN TERRACE ON DISTURBED AREAS RECEIVING TOPSOIL. USE SPECIAL PROVISION "PREPARING TOPSOIL FOR LAWN TYPE TURF".

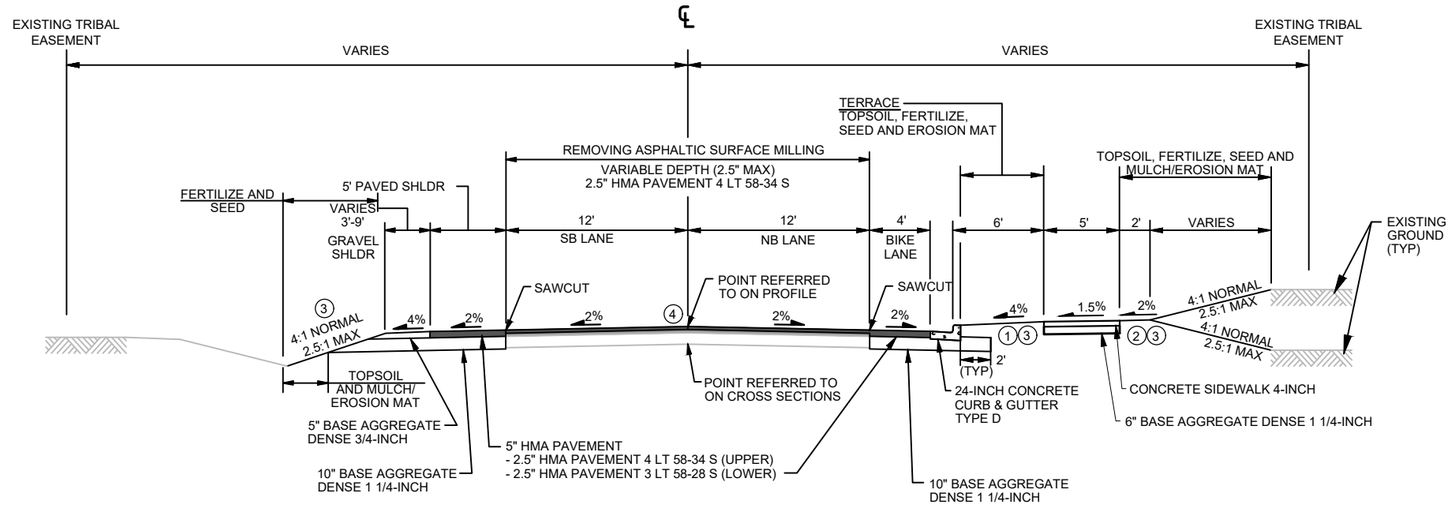
(2) STA 82+45 - STA 165+00
USE SEED NO. 40 WITH EROSION MAT URBAN CLASS I TYPE A BEHIND THE SIDEWALK ON ALL DISTURBED AREAS RECEIVING TOPSOIL. USE SPECIAL PROVISION "PREPARING TOPSOIL FOR LAWN TYPE TURF".



TYPICAL SUPERELEVATED FINISHED SECTION - STH 47

STA 146+10 - STA 150+51

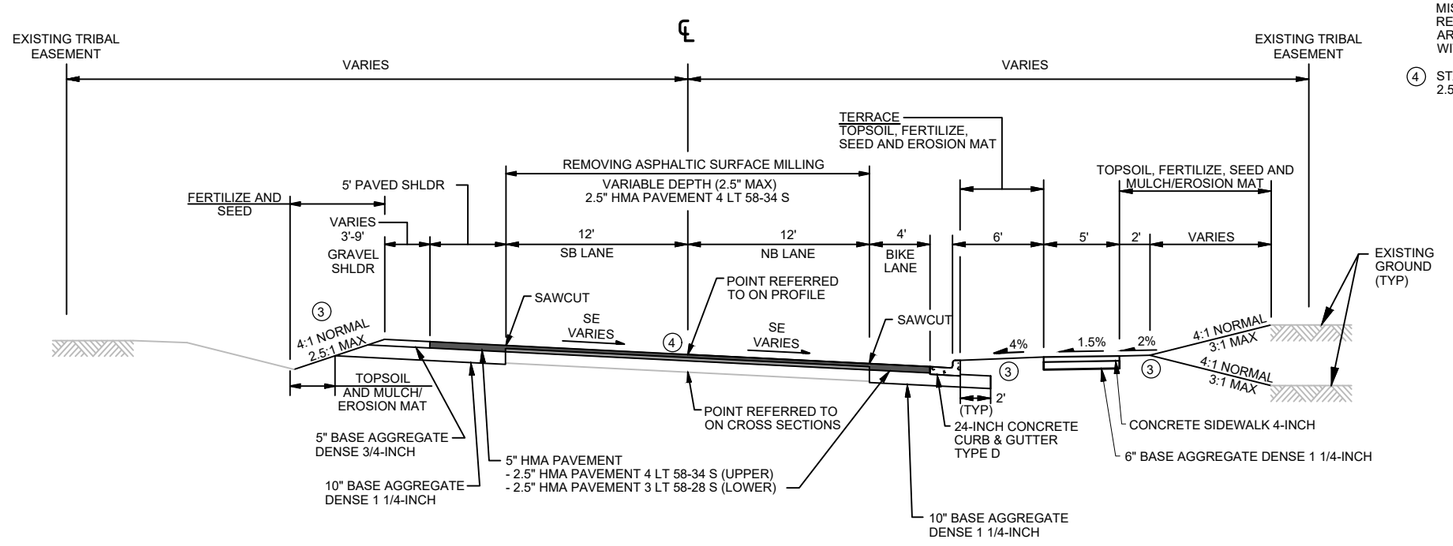
SUPERELEVATION TABLE		
	CROSS SLOPE (%)	
STATION	LT LANE	RT LANE
146+10	-2.0	-2.0
146+49	-2.0	0.0
146+88	-2.0	2.0
149+73	-2.0	2.0
150+12	-2.0	0.0
150+51	-2.0	-2.0



TYPICAL FINISHED SECTION - STH 47

STA 157+63 - STA 179+30
STA 185+17 - STA 197+95

1. STA 82+45 - STA 165+00
   USE SEED NO. 30 WITH EROSION MAT URBAN CLASS I TYPE A IN TERRACE ON DISTURBED AREAS RECEIVING TOPSOIL. USE SPECIAL PROVISION "PREPARING TOPSOIL FOR LAWN TYPE TURF".
2. STA 82+45 - STA 165+00
   USE SEED NO. 40 WITH EROSION MAT URBAN CLASS I TYPE A BEHIND THE SIDEWALK ON ALL DISTURBED AREAS RECEIVING TOPSOIL. USE SPECIAL PROVISION "PREPARING TOPSOIL FOR LAWN TYPE TURF".
3. STA 165+00 - STA 221+50
   USE SEED NO. 20 WITH EITHER MULCH OR EROSION MAT CLASS I TYPE A (AS SHOWN IN THE EROSION CONTROL AND MISCELLANEOUS QUANTITY SHEETS) ON ALL DISTURBED AREAS RECEIVING TOPSOIL. EROSION MAT CLASS I TYPE A IN TERRACE AREAS AND ON SLOPES 3:1 OR STEEPER AND MULCH IN AREAS WITH SLOPES FLATTER THAN 3:1 OUTSIDE THE TERRACE.
4. STA 82+45 - STA 197+95.30
   2.5" MILLING DEPTH TO BE MEASURED OFF OF CURB AND GUTTER.



TYPICAL SUPERELEVATED FINISHED SECTION - STH 47

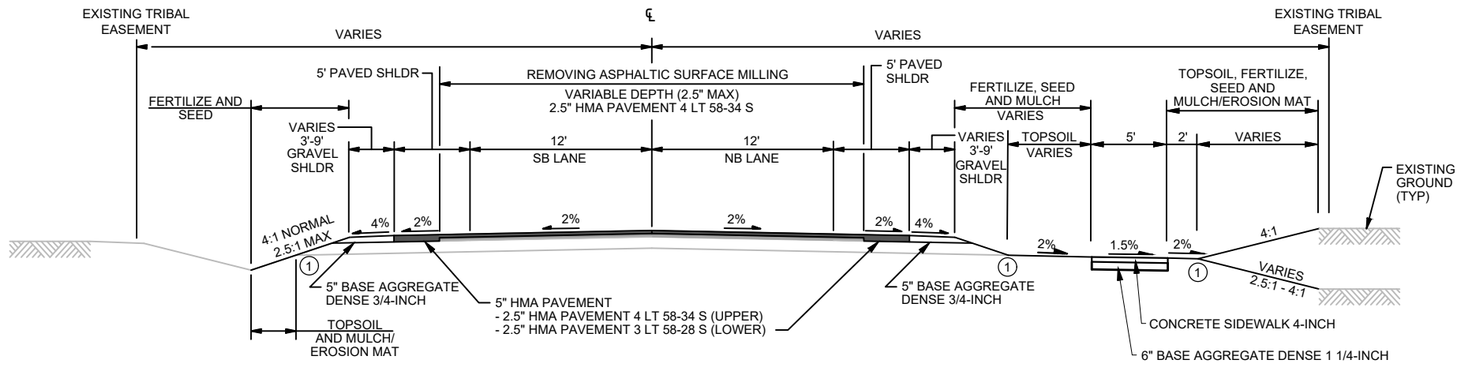
STA 179+30 - STA 185+17

SUPERELEVATION TABLE		
	CROSS SLOPE (%)	
STATION	LT LANE	RT LANE
179+30	-2.0	-2.0
179+75	-2.0	0.0
180+20	-2.0	2.0
180+31	-2.5	2.5
184+16	-2.5	2.5
184+27	-2.0	2.0
184+72	-2.0	0.0
185+17	-2.0	-2.0

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	TYPICAL SECTIONS	SHEET 9	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0203_TS.DWG PLOT DATE : 1/20/2020 4:46 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1 IN:10 FT

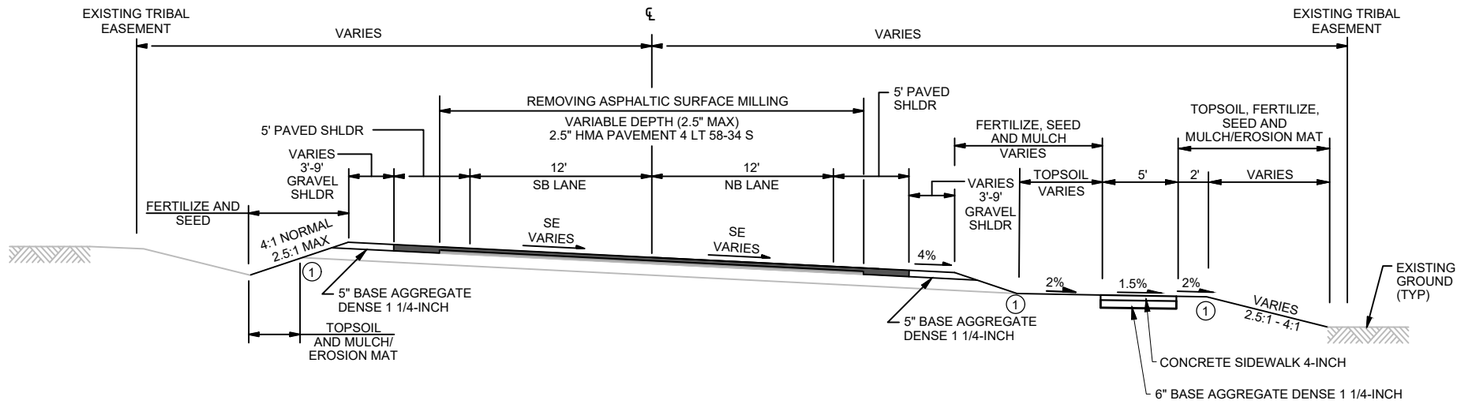
WISDOT/CADDS SHEET 42



TYPICAL FINISHED SECTION - STH 47

STA 197+95 - STA 200+14
STA 211+96 - STA 212+27
STA 215+51 - STA 221+50

(1) STA 165+00 - STA 221+50
USE SEED NO. 20 WITH EITHER MULCH OR EROSION MAT CLASS I TYPE A (AS SHOWN IN THE EROSION CONTROL AND MISCELLANEOUS QUANTITY SHEETS) ON ALL DISTURBED AREAS RECEIVING TOPSOIL. EROSION MAT CLASS I TYPE A IN TERRACE AREAS AND ON SLOPES 3:1 OR STEEPER AND MULCH IN AREAS WITH SLOPES FLATTER THAN 3:1 OUTSIDE THE TERRACE.



TYPICAL SUPERELEVATED FINISHED SECTION - STH 47

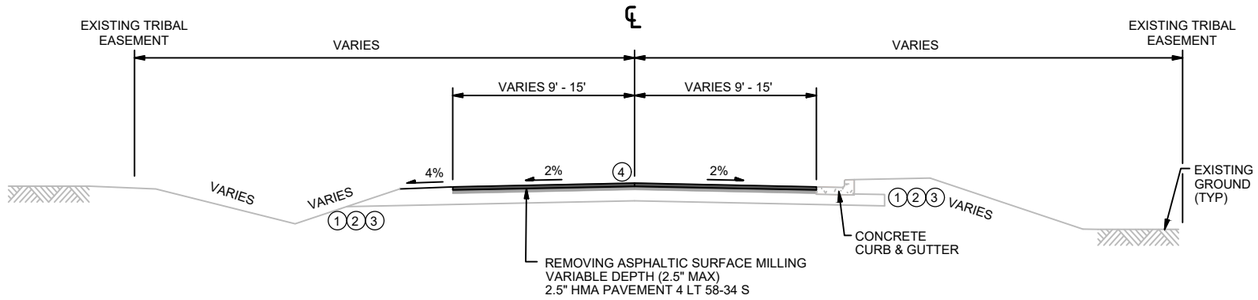
STA 200+14 - STA 211+96

SUPERELEVATION TABLE		
	CROSS SLOPE (%)	
STATION	LT LANE	RT LANE
200+14	-2.0	-2.0
200+65	0.0	-2.0
201+16	2.0	-2.0
201+95	5.1	-5.1
208+19	5.1	-5.1
209+44	4.9	-4.9
210+20	4.9	-4.9
210+94	2.0	-2.0
211+45	0.0	-2.0
211+96	-2.0	-2.0

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	TYPICAL SECTIONS	SHEET 10	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0203_TS.DWG PLOT DATE : 1/20/2020 4:46 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42



TYPICAL FINISHED SECTION - SIDE ROADS

DODGE RD
WARRINGTON RD
CHIEF LITTLE WAVE RD
MORRIN ST
CHIEF CARRON RD
WOLF CT
OUR CHILDREN'S RD
BROOKS LN
TRIBAL OFFICE LOOP RD (SOUTH)

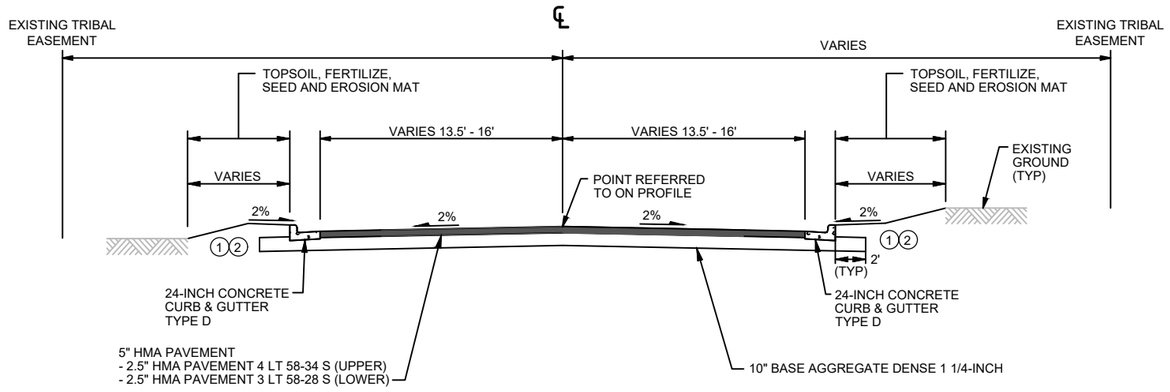
BLACKSMITH RD
LYONS RD (SOUTH)
RABBIT RIDGE RD
LYONS RD (NORTH)
WOLF RIVER DR
COURTHOUSE LN
STH 55
CTH VV (NORTH)
OSHKOSH RD

(1) STA 82+45 - STA 165+00
USE SEED NO. 30 WITH EROSION MAT URBAN CLASS I TYPE A IN TERRACE ON DISTURBED AREAS RECEIVING TOPSOIL. USE SPECIAL PROVISION "PREPARING TOPSOIL FOR LAWN TYPE TURF".

(2) STA 82+45 - STA 165+00
USE SEED NO. 40 WITH EROSION MAT URBAN CLASS I TYPE A BEHIND THE SIDEWALK ON ALL DISTURBED AREAS RECEIVING TOPSOIL. USE SPECIAL PROVISION "PREPARING TOPSOIL FOR LAWN TYPE TURF".

(3) STA 165+00 - STA 221+50
USE SEED NO. 20 WITH EITHER MULCH OR EROSION MAT CLASS I TYPE A (AS SHOWN IN THE EROSION CONTROL AND MISCELLANEOUS QUANTITY SHEETS) ON ALL DISTURBED AREAS RECEIVING TOPSOIL. EROSION MAT CLASS I TYPE A IN TERRACE AREAS AND ON SLOPES 3:1 OR STEEPER AND MULCH IN AREAS WITH SLOPES FLATTER THAN 3:1 OUTSIDE THE TERRACE.

(4) STA 82+45 - STA 197+95.30
2.5" MILLING DEPTH TO BE MEASURED OFF OF CURB AND GUTTER.

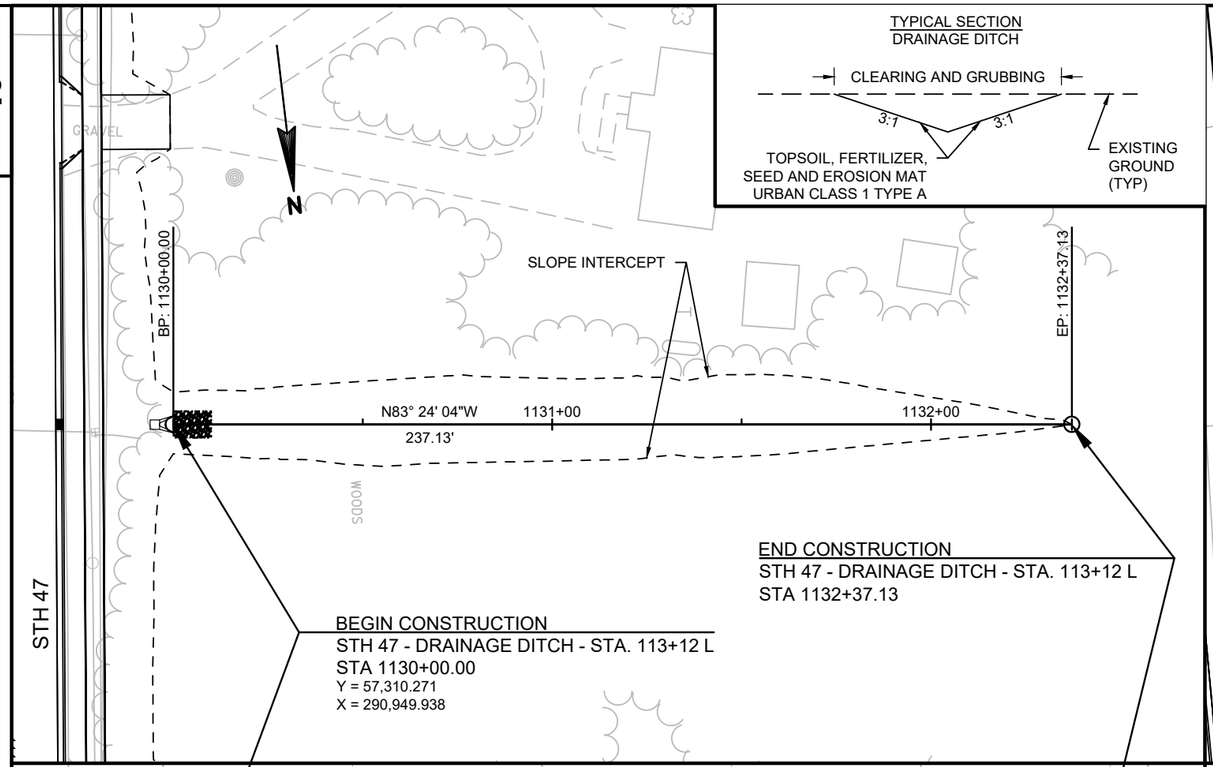


TYPICAL FINISHED SECTION - SIDE ROADS

TRIBAL OFFICE LOOP RD (NORTH)
CTH VV (SOUTH)
FAIRGROUNDS RD

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	TYPICAL SECTIONS	SHEET 11	E

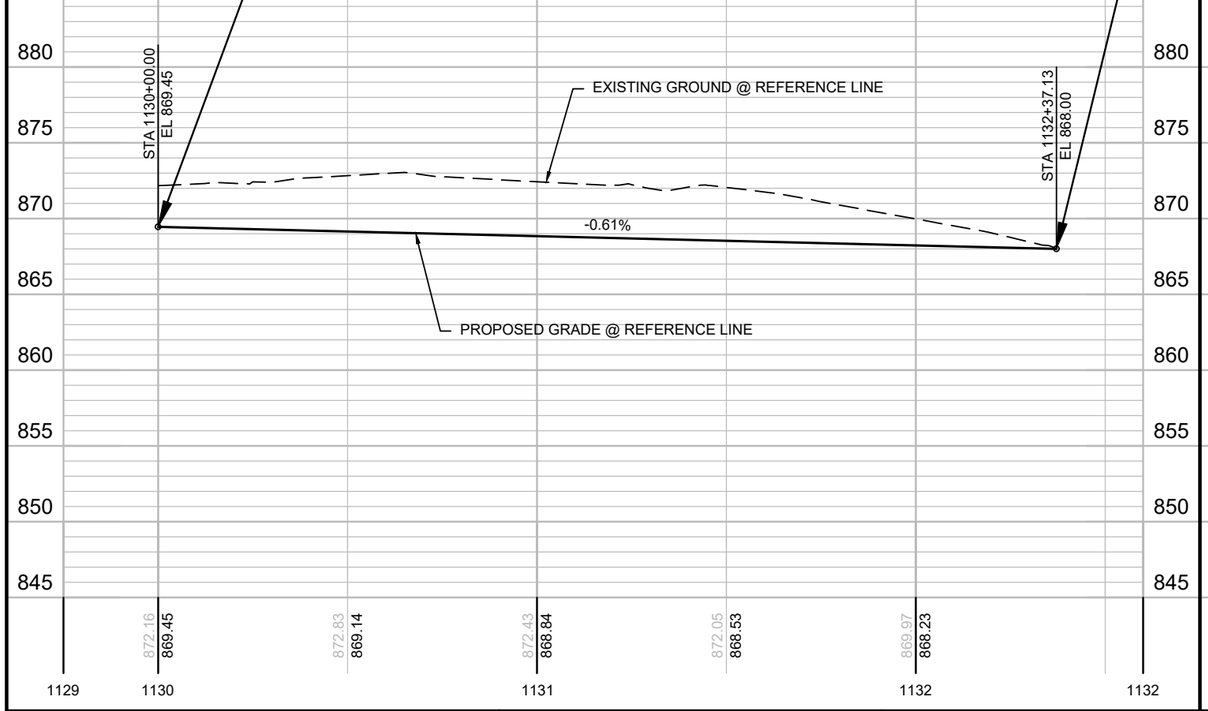
2



TYPICAL SECTION
DRAINAGE DITCH

END CONSTRUCTION
STH 47 - DRAINAGE DITCH - STA. 113+12 L
STA 1132+37.13

BEGIN CONSTRUCTION
STH 47 - DRAINAGE DITCH - STA. 113+12 L
STA 1130+00.00
Y = 57,310.271
X = 290,949.938



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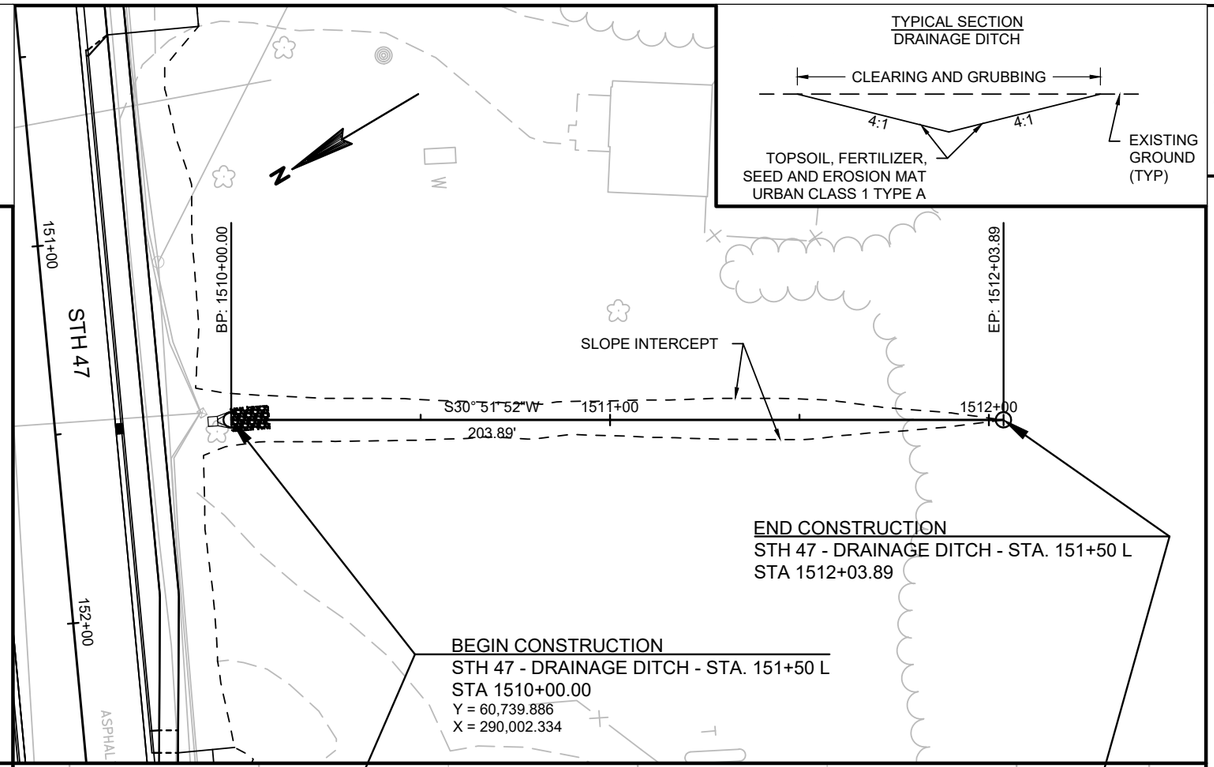
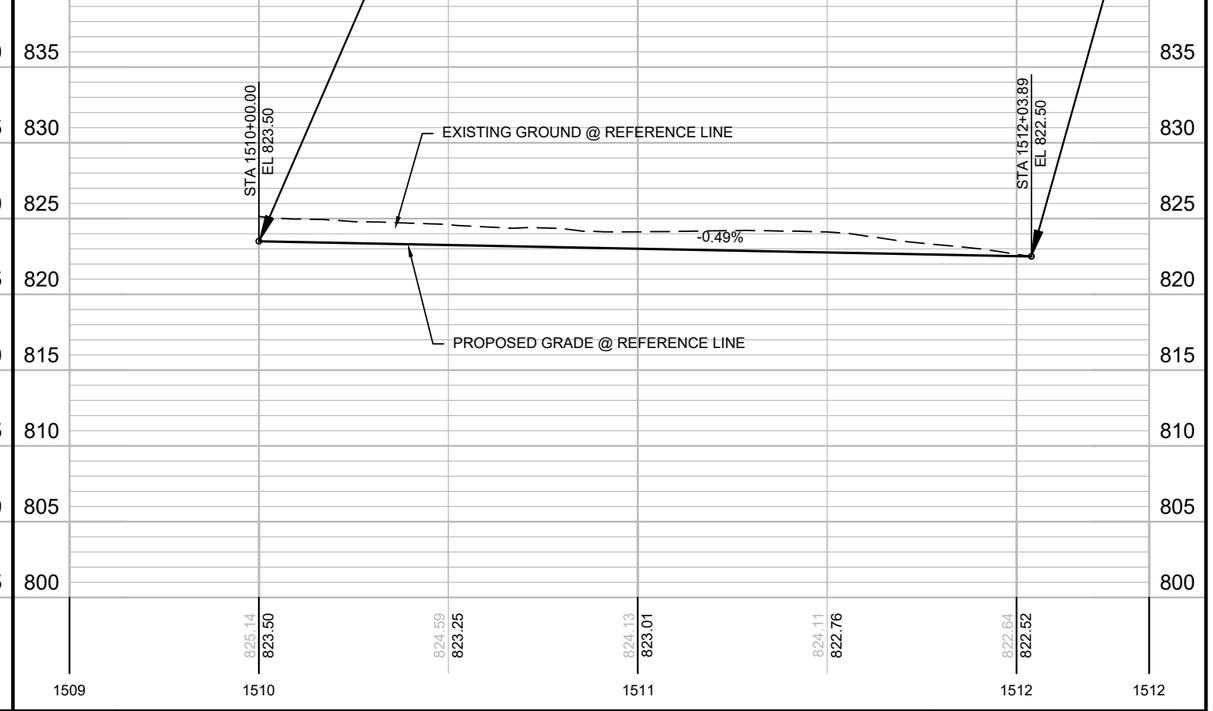


TYPICAL SECTION
DRAINAGE DITCH

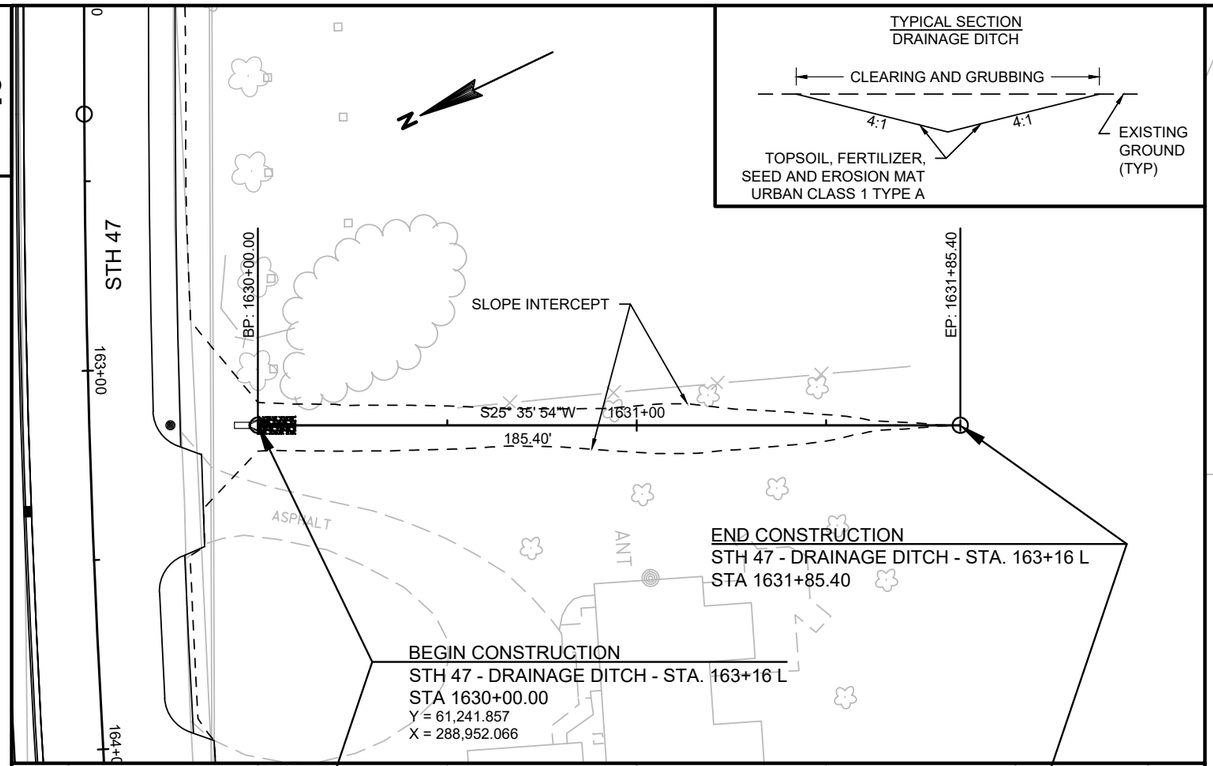
END CONSTRUCTION
STH 47 - DRAINAGE DITCH - STA. 151+50 L
STA 1512+03.89

BEGIN CONSTRUCTION
STH 47 - DRAINAGE DITCH - STA. 151+50 L
STA 1510+00.00
Y = 60,739.886
X = 290,002.334

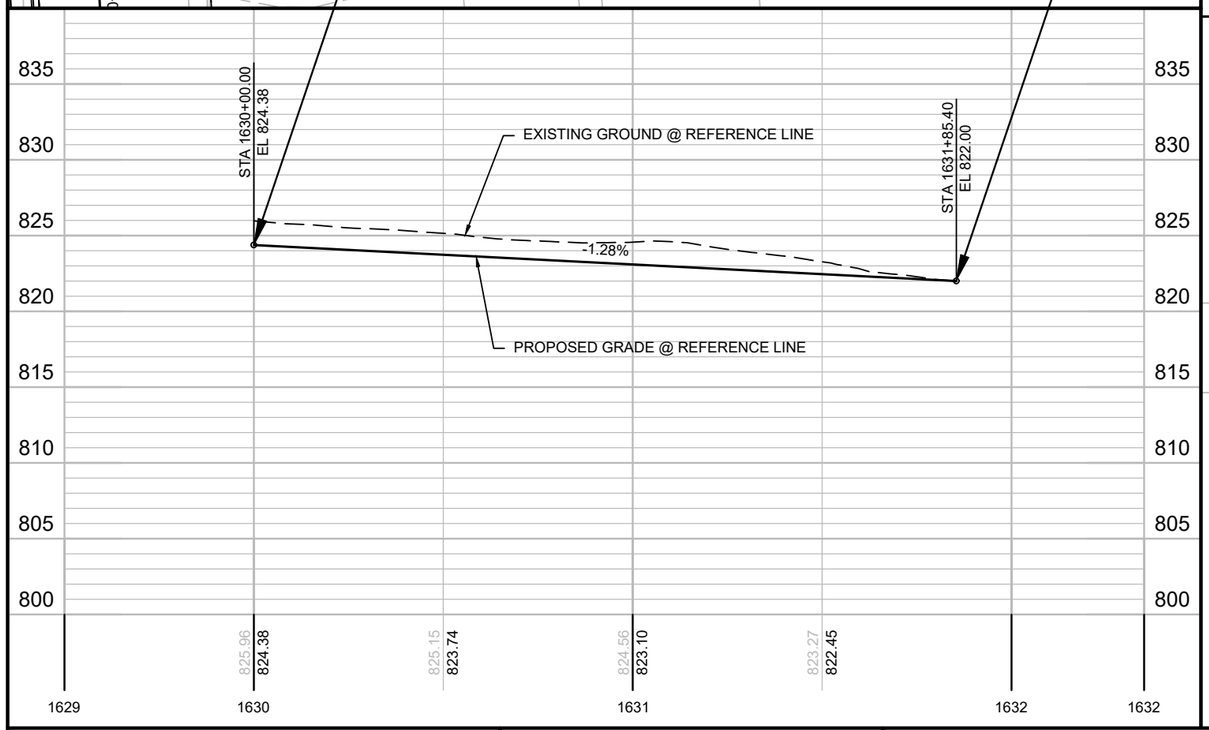


PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CONSTRUCTION DETAILS - DRAINAGE DITCHES	SHEET 12	E

2

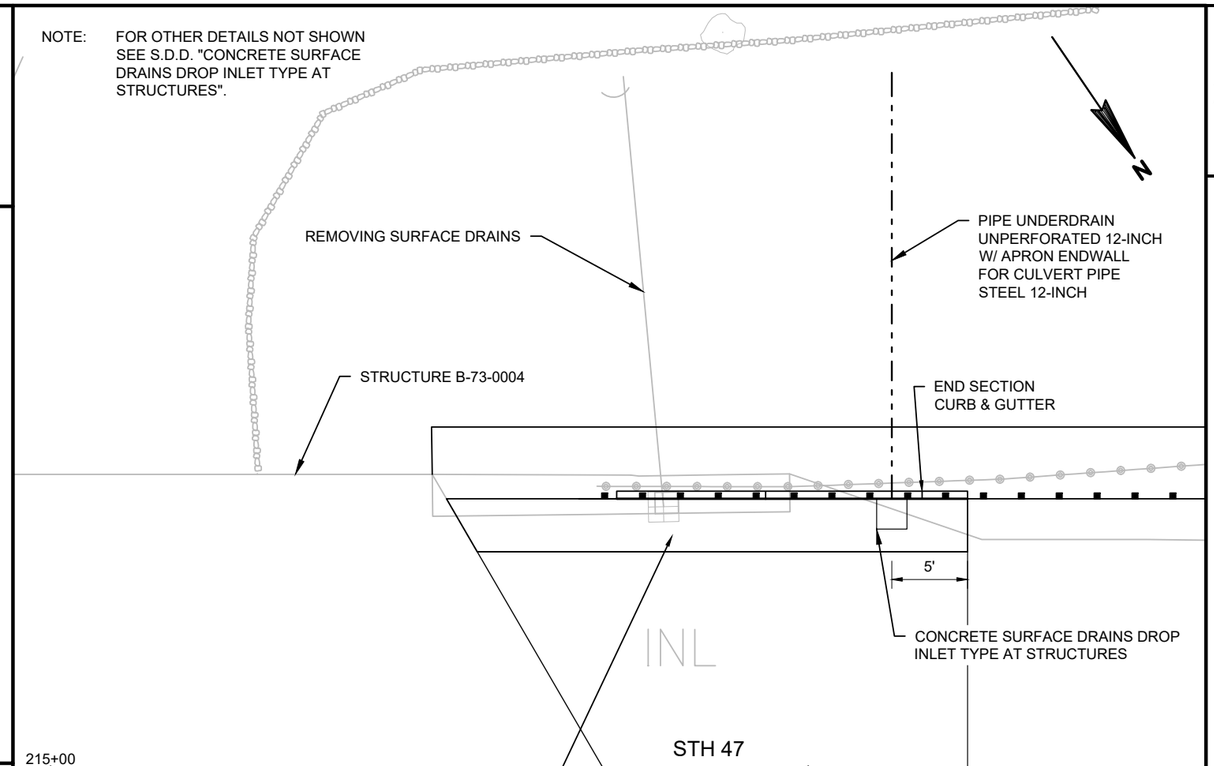


TYPICAL SECTION
DRAINAGE DITCH



NOTE: FOR OTHER DETAILS NOT SHOWN SEE S.D.D. "CONCRETE SURFACE DRAINS DROP INLET TYPE AT STRUCTURES".

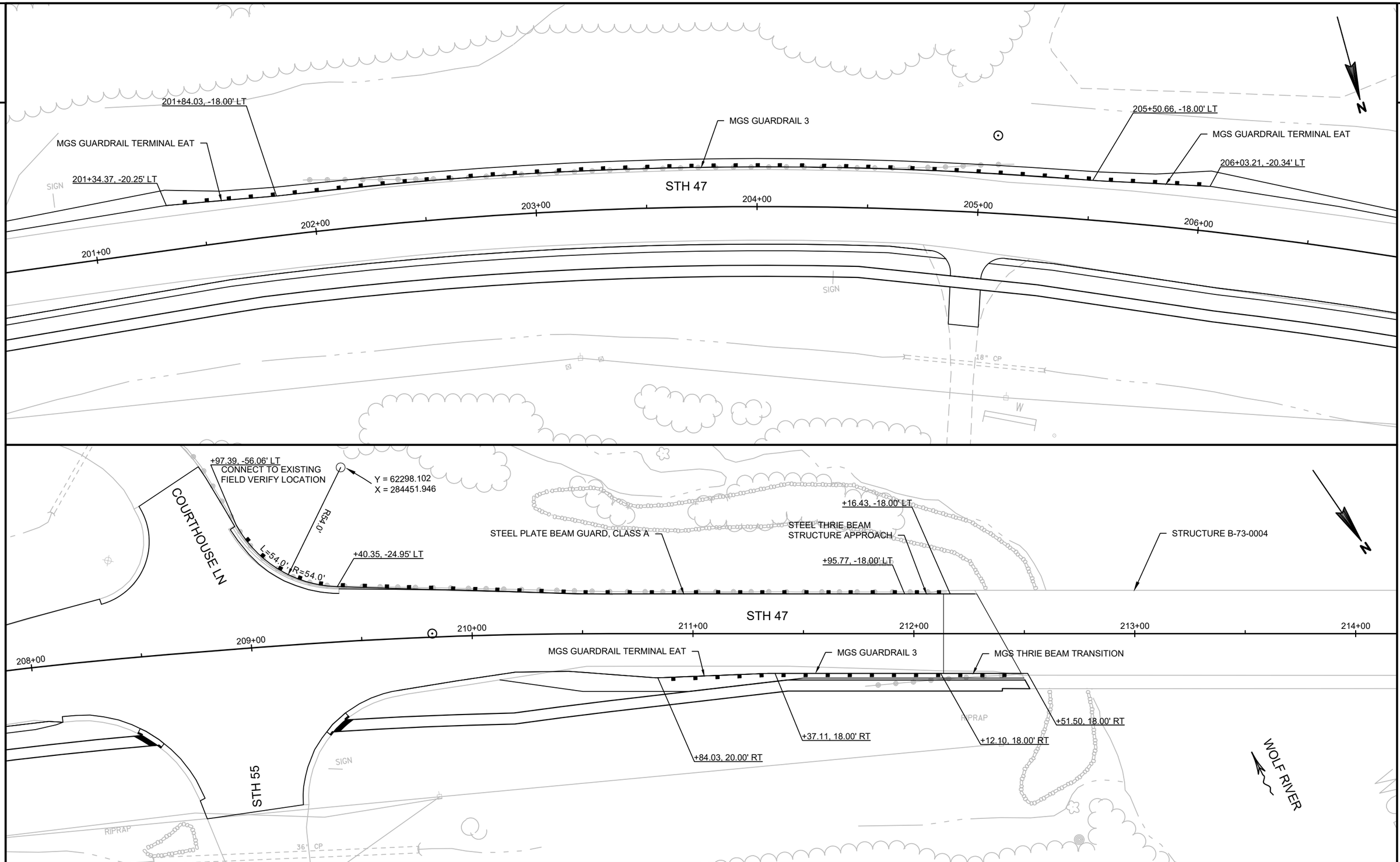
2



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CONSTRUCTION DETAILS - DRAINAGE DITCH / SURFACE DRAINS	SHEET 13	E

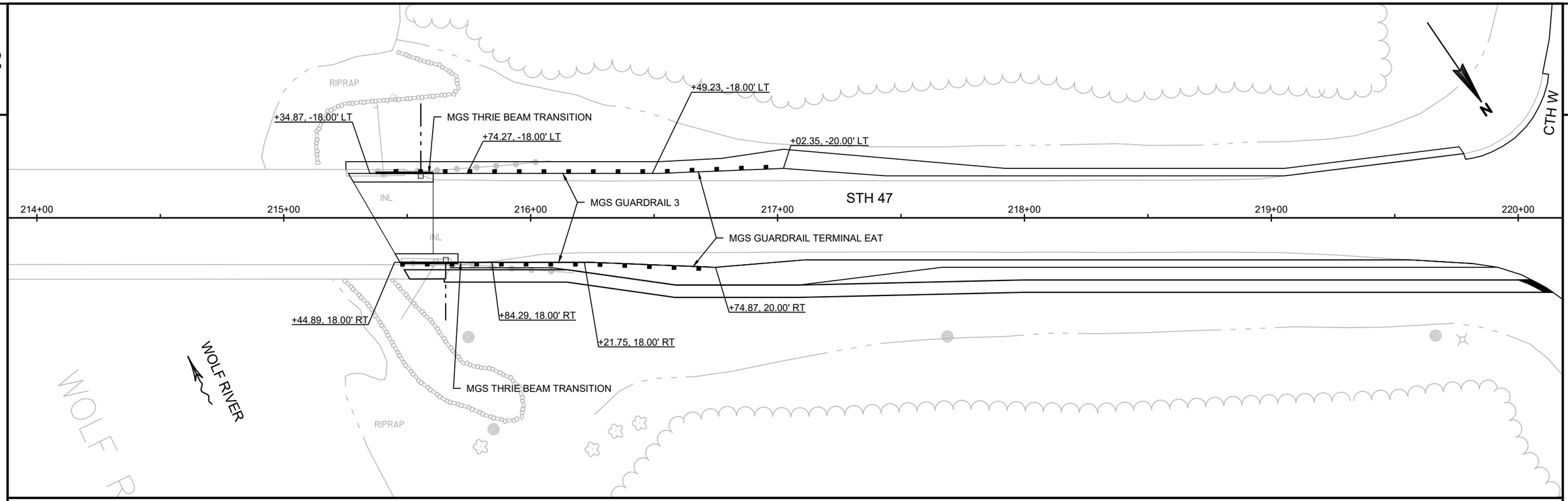
FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0210_CD.DWG
LAYOUT NAME - 0210_CD - 021002_CD
PLOT DATE : 1/30/2020 10:46 AM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CONSTRUCTION DETAILS - GUARDRAIL LAYOUT	SHEET 14	E

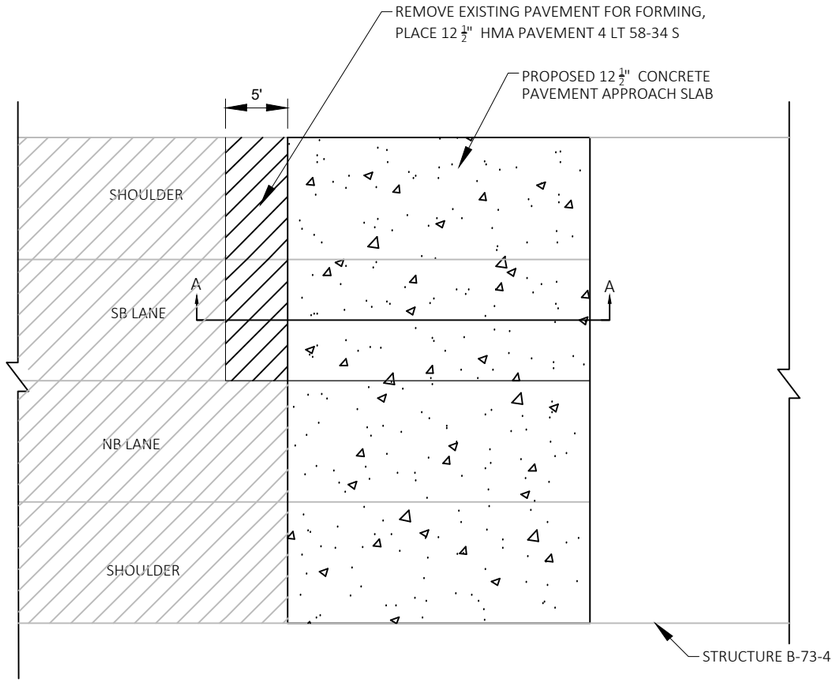
FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0210_CD.DWG
LAYOUT NAME - 0210_CD - 021003_CD
PLOT DATE : 1/30/2020 10:46 AM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



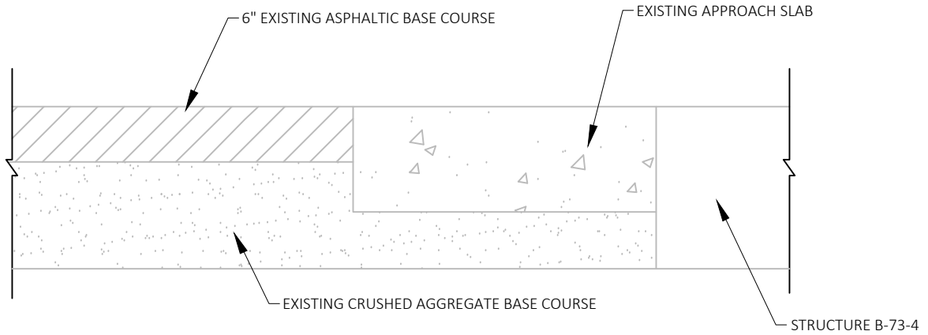
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CONSTRUCTION DETAILS - GUARDRAIL LAYOUT (CONT.)	SHEET 15	E

NOTE:
STAGE 1A SOUTHBOUND APPROACH SHOWN. MIRROR DETAIL FOR NORTHBOUND APPROACH AND STAGE 1B.

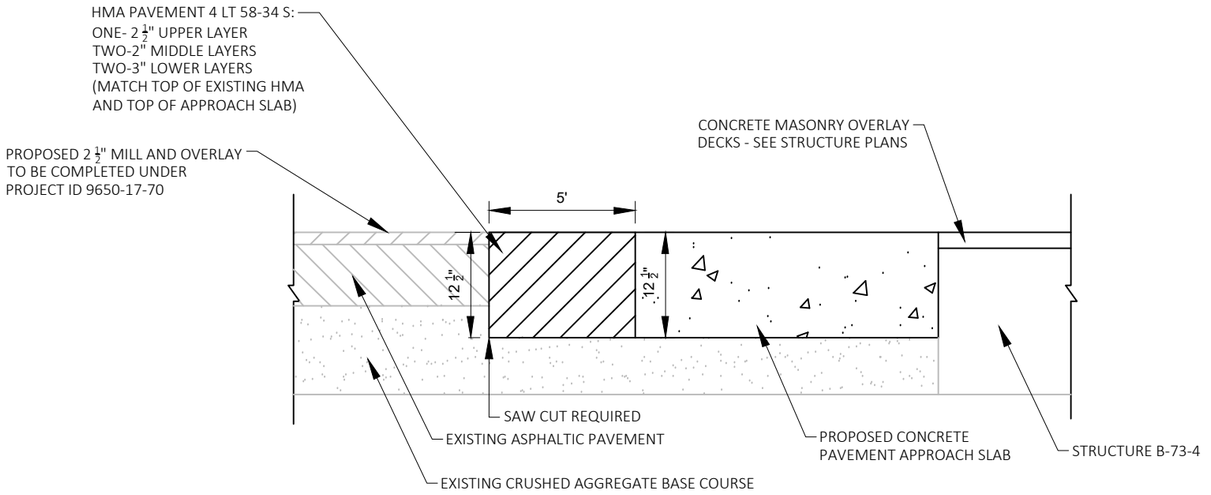
2



PLAN VIEW
NOT TO SCALE



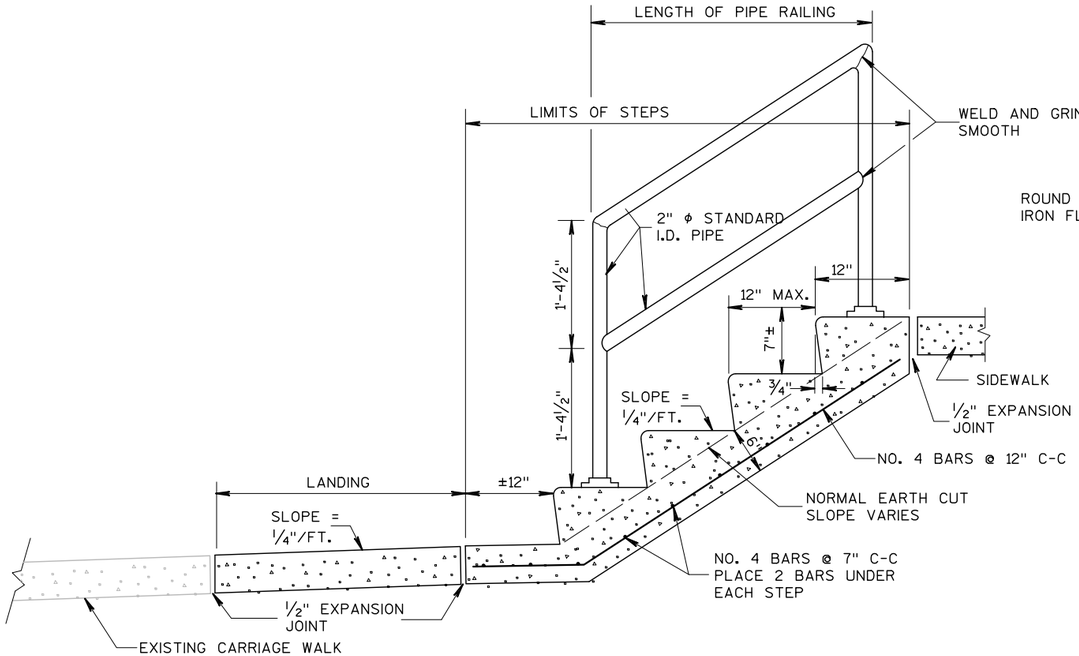
EXISTING SECTION A-A
NOT TO SCALE



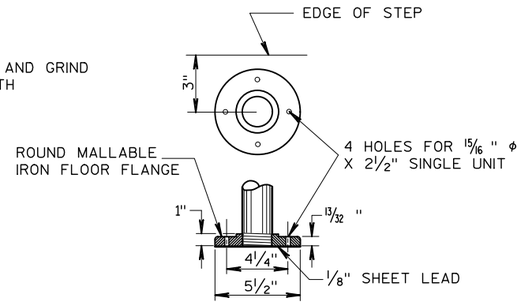
PROPOSED SECTION A-A
NOT TO SCALE

PAVEMENT TRANSITION DETAIL
STA 212+07.34 TO STA 212+38.42
STA 215+36.71 TO 215+71.41 (MIRROR)

2



CONCRETE STEPS DETAIL



FLANGE DETAIL

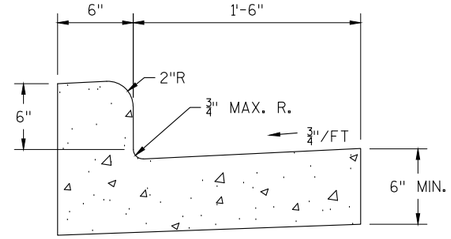
NOTE:

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.



CONCRETE CURB AND GUTTER 24" TYPE D

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CONSTRUCTION DETAILS - CONCRETE STEPS	SHEET 17	E

2

SANITARY
(MITW UTILITIES)

HIGHWAY EASEMENT

SLOPE INTERCEPT

TLE

DODGE RD

FIBER OPTIC
(FRONTIER
COMMUNICATIONS)

HIGHWAY
EASEMENT
TLE

CONCRETE

ASPHALT

STH 47

82

83

REMOVING SMALL
PIPE CULVERTS

MATCHLINE STA. 84+00

HIGHWAY EASEMENT

HIGHWAY EASEMENT

TLE

BEGIN PROJECT 9650-17-70
STA 82+45.00
MATCH EXISTING - SAWCUT REQUIRED

SLOPE INTERCEPT

WATER
(MITW UTILITIES)

REMOVING CONCRETE SIDEWALK

REMOVING SMALL PIPE CULVERTS

EXISTING TRIBAL SIDEWALK
AND UTILITY EASEMENT

LEGEND

CLEARING AND GRUBBING

REMOVING CONCRETE SIDEWALK

REMOVING ASPHALTIC PAVEMENT
(EXCAVATION COMMON)

SAWCUT

FIBER OPTIC
(FRONTIER COMMUNICATIONS)

OVERHEAD ELECTRIC
(WISCONSIN POWER AND
LIGHT COMPANY)

REMOVING SMALL PIPE CULVERTS

TELEPHONE
(FRONTIER COMMUNICATIONS)

SLOPE INTERCEPT

HIGHWAY EASEMENT

STH 47

MATCHLINE STA. 84+00

84

85

86

87

88

89

MATCHLINE STA. 90+00

HIGHWAY EASEMENT

TLE

CLEARING AND GRUBBING
(TYP)

SANITARY
(MITW UTILITIES)

WATER
(MITW UTILITIES)

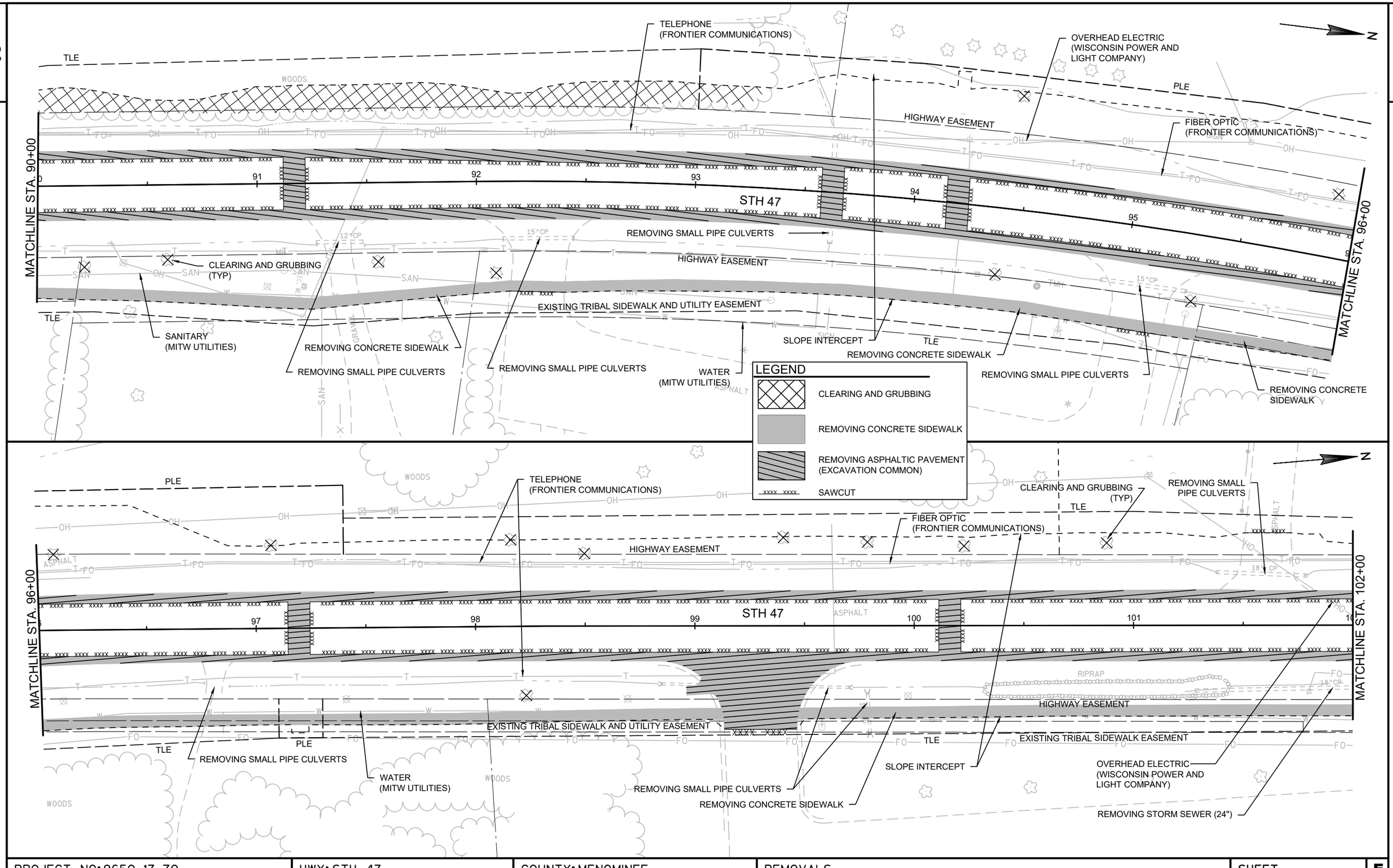
REMOVING SMALL PIPE CULVERTS

REMOVING CONCRETE SIDEWALK

EXISTING TRIBAL SIDEWALK AND UTILITY EASEMENT

REMOVING
CONCRETE
SIDEWALK

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	REMOVALS	SHEET 18	E



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	REMOVALS	SHEET 19	E

2

MATCHLINE STA. 102+00

MATCHLINE STA. 108+00

REMOVING SMALL PIPE CULVERTS

SANITARY
(MITW UTILITIES)

CLEARING AND GRUBBING
(TYP)

FIBER OPTIC
(FRONTIER COMMUNICATIONS)

HIGHWAY EASEMENT

STH 47

REMOVING INLETS

WARRINGTON RD

REMOVING STORM SEWER (18")

REMOVING STORM SEWER (18")

WATER
(MITW UTILITIES)

TELEPHONE
(FRONTIER COMMUNICATIONS)

REMOVING CONCRETE SIDEWALK

OVERHEAD ELECTRIC
(WISCONSIN POWER AND
LIGHT COMPANY)

HIGHWAY EASEMENT

SLOPE INTERCEPT

REMOVING SMALL PIPE CULVERTS

REMOVING CONCRETE SIDEWALK

REMOVING CONCRETE
SIDEWALK

LEGEND

- CLEARING AND GRUBBING
- REMOVING CONCRETE SIDEWALK
- REMOVING ASPHALTIC PAVEMENT (EXCAVATION COMMON)
- SAWCUT

MATCHLINE STA. 108+00

MATCHLINE STA. 114+00

SANITARY
(MITW UTILITIES)

FIBER OPTIC
(FRONTIER COMMUNICATIONS)

HIGHWAY EASEMENT

STH 47

REMOVING CURB & GUTTER

REMOVING STORM SEWER (18")

REMOVING CURB & GUTTER

REMOVING INLETS

HIGHWAY EASEMENT

REMOVING CONCRETE SIDEWALK

SLOPE INTERCEPT

TELEPHONE
(FRONTIER COMMUNICATIONS)

WATER
(MITW UTILITIES)

REMOVING CONCRETE SIDEWALK

OVERHEAD ELECTRIC
(WISCONSIN POWER AND
LIGHT COMPANY)

REMOVING SMALL PIPE CULVERTS

CHIEF LITTLE WAVE RD

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	REMOVALS	SHEET 20	E

2

MATCHLINE STA. 114+00

MATCHLINE STA. 119+50

HIGHWAY EASEMENT

TLE

WOODS

GRAVEL

SANITARY
(MITW UTILITIES)

FIBER OPTIC
(FRONTIER COMMUNICATIONS)

4 115 116 117 118 119

STH 47

ASPHALT

REMOVING CURB & GUTER

REMOVING CONCRETE SIDEWALK

TELEPHONE
(FRONTIER COMMUNICATIONS)

OVERHEAD ELECTRIC
(WISCONSIN POWER AND
LIGHT COMPANY)

SLOPE INTERCEPT

WATER
(MITW UTILITIES)

CONC

A/C

N

LEGEND

CLEARING AND GRUBBING

REMOVING CONCRETE SIDEWALK

REMOVING ASPHALTIC PAVEMENT
(EXCAVATION COMMON)

SAWCUT

MORRIN ST

PP W/ LIGHT

END CURB & GUTTER REMOVAL

120 121 122 123 124

MATCHLINE STA. 119+50

MATCHLINE STA. 125+00

HIGHWAY EASEMENT

INL

SS

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	REMOVALS	SHEET 21	E

2

2

MATCHLINE STA. 125+00

MATCHLINE STA. 131+00

MATCHLINE STA. 137+00

CLEARING AND GRUBBING (TYP)

FIBER OPTIC (FRONTIER COMMUNICATIONS)

HIGHWAY EASEMENT

SANITARY (MITW UTILITIES)

REMOVING SMALL PIPE CULVERTS

STH 47

REMOVING CURB & GUTTER

REMOVING CONCRETE SIDEWALK

WATER (MITW UTILITIES)

SLOPE INTERCEPT

OVERHEAD ELECTRIC (WISCONSIN POWER AND LIGHT COMPANY)

TELEPHONE (FRONTIER COMMUNICATIONS)

CHIEF CARRON RD

WOLF CT

BROOKS LN

OUR CHILDREN'S RD

REMOVING INLETS

REMOVING STORM SEWER (12")

REMOVING STORM SEWER (15")

WETLAND BOUNDARY

LEGEND

- CLEARING AND GRUBBING
- REMOVING CONCRETE SIDEWALK
- REMOVING ASPHALTIC PAVEMENT (EXCAVATION COMMON)
- SAWCUT

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	REMOVALS	SHEET 22	E

2

SANITARY
(MITW UTILITIES)

WETLAND BOUNDARY

SLOPE INTERCEPT

REMOVING SMALL PIPE CULVERTS

PLE

TRIBAL OFFICE LOOP RD

FIBER OPTIC
(FRONTIER COMMUNICATIONS)

TLE

HIGHWAY EASEMENT

SANITARY
(MITW UTILITIES)

STH 47

ASPHALT

MATCHLINE STA. 137+00

MATCHLINE STA. 143+00

HIGHWAY EASEMENT

OVERHEAD ELECTRIC
(WISCONSIN POWER AND
LIGHT COMPANY)

TELEPHONE
(FRONTIER COMMUNICATIONS)

REMOVING CONCRETE SIDEWALK

WETLAND BOUNDARY

WATER
(MITW UTILITIES)

LEGEND

- CLEARING AND GRUBBING
- REMOVING CONCRETE SIDEWALK
- REMOVING ASPHALTIC PAVEMENT (EXCAVATION COMMON)
- SAWCUT

CLEARING AND GRUBBING
(TYP)

OVERHEAD ELECTRIC
(WISCONSIN POWER AND
LIGHT COMPANY)

REMOVING INLET

REMOVING CURB & GUTTER

REMOVING STORM SEWER (18")

MATCHLINE STA. 149+00

SLOPE INTERCEPT

FIBER OPTIC
(FRONTIER COMMUNICATIONS)

HIGHWAY EASEMENT

SANITARY
(MITW UTILITIES)

STH 47

REMOVING SMALL PIPE CULVERTS

TELEPHONE
(FRONTIER COMMUNICATIONS)

REMOVING CONCRETE SIDEWALK

WATER
(MITW UTILITIES)

END RECONDITION
BEGIN RECONSTRUCTION
STA. 146+00

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	REMOVALS	SHEET 23	E

2

2

MATCHLINE STA. 149+00

MATCHLINE STA. 155+00

MATCHLINE STA. 155+00

MATCHLINE STA. 161+00

STH 47

FIBER OPTIC
(FRONTIER COMMUNICATIONS)

SLOPE INTERCEPT

TELEVISION
(CHARTER COMMUNICATIONS)

SANITARY
(MITW UTILITIES)

STA 154+20
REMOVE EXISTING
STRUCTURE C-73-2
6'WX1.5'H SINGLE CELL
REINFORCED CONCRETE
BOX CULVET
50' BARREL LENGTH

WETLAND BOUNDARY

HIGHWAY EASEMENT

TLE

PLE

REMOVING CURB & GUTTER

REMOVING INLETS

OVERHEAD ELECTRIC
(WISCONSIN POWER AND
LIGHT COMPANY)

TELEPHONE
(FRONTIER COMMUNICATIONS)

WATER
(MITW UTILITIES)

REMOVING CONCRETE SIDEWALK

FIBER OPTIC
(FRONTIER COMMUNICATIONS)

REMOVING STORM
SEWER (18")

WETLAND AREA 2

C.T.H. VV

LEGEND

CLEARING AND GRUBBING

REMOVING CONCRETE SIDEWALK

REMOVING ASPHALTIC PAVEMENT
(EXCAVATION COMMON)

SAWCUT

END RECONSTRUCTION
BEGIN RECONDITION
STA. 157+63

FAIRGROUNDS RD

STATUE

N

HIGHWAY EASEMENT

REMOVING CURB & GUTTER

WATER
(MITW UTILITIES)

SANITARY
(MITW UTILITIES)

SLOPE INTERCEPT

SANITARY
(MITW UTILITIES)

TELEVISION
(CHARTER COMMUNICATIONS)

CLEARING AND GRUBBING
(TYP)

FIBER OPTIC
(FRONTIER COMMUNICATIONS)

TELEPHONE
(FRONTIER COMMUNICATIONS)

REMOVING CONCRETE SIDEWALK

OVERHEAD ELECTRIC
(WISCONSIN POWER AND
LIGHT COMPANY)

WATER
(MITW UTILITIES)

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	REMOVALS	SHEET	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0210_PD.DWG PLOT DATE : 1/30/2020 11:08 AM PLOT BY : DOLAN, ISAAC PLOT NAME :

WISDOT/CADDS SHEET 41

2

2

MATCHLINE STA. 161+00

MATCHLINE STA. 167+00

MATCHLINE STA. 173+00

TELEPHONE
(FRONTIER COMMUNICATIONS)

TELEVISION
(CHARTER COMMUNICATIONS)

SANITARY
(MITW UTILITIES)

LYONS RD

HIGHWAY EASEMENT

STH 47

TLE

PLE

ASPHALT

WOODS

GRAVEL

162

163

164

165

166

168

169

170

171

172

OVERHEAD ELECTRIC
(WISCONSIN POWER AND
LIGHT COMPANY)

REMOVING CONCRETE
SIDEWALK

SLOPE INTERCEPT

CLEARING AND GRUBBING
(TYP)

WATER
(MITW UTILITIES)

BLACKSMITH RD

RABBIT RIDGE RD

WETLAND BOUNDARY

SIGN

LEGEND

CLEARING AND GRUBBING

REMOVING CONCRETE SIDEWALK

REMOVING ASPHALTIC PAVEMENT
(EXCAVATION COMMON)

SAWCUT

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	REMOVALS	SHEET 25	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0210_PD.DWG PLOT DATE : 1/30/2020 11:09 AM PLOT BY : DOLAN, ISAAC PLOT NAME :

WISDOT/CADDS SHEET 41

2

PLE

SLOPE INTERCEPT

TELEPHONE
(FRONTIER COMMUNICATIONS)

HIGHWAY EASEMENT

REMOVING SMALL PIPE CULVERTS

N

MATCHLINE STA. 173+00

MATCHLINE STA. 179+00

STH 47

REMOVING
CURB & GUTTER

TELEVISION
(CHARTER COMMUNICATIONS)

CLEARING AND GRUBBING
(TYP)

OVERHEAD ELECTRIC
(WISCONSIN POWER AND
LIGHT COMPANY)

SLOPE INTERCEPT

REMOVING SMALL PIPE CULVERTS

TLE

LEGEND

- CLEARING AND GRUBBING
- REMOVING CONCRETE SIDEWALK
- REMOVING ASPHALTIC PAVEMENT (EXCAVATION COMMON)
- SAWCUT

LYONS RD

WATER
(MITW UTILITIES)

SANITARY
(MITW UTILITIES)

REMOVING
CURB & GUTTER

REMOVING SMALL PIPE CULVERTS

REMOVING SMALL PIPE CULVERTS

HIGHWAY EASEMENT

TELEPHONE
(FRONTIER COMMUNICATIONS)

OVERHEAD ELECTRIC
(WISCONSIN POWER AND
LIGHT COMPANY)

TELEVISION
(CHARTER COMMUNICATIONS)

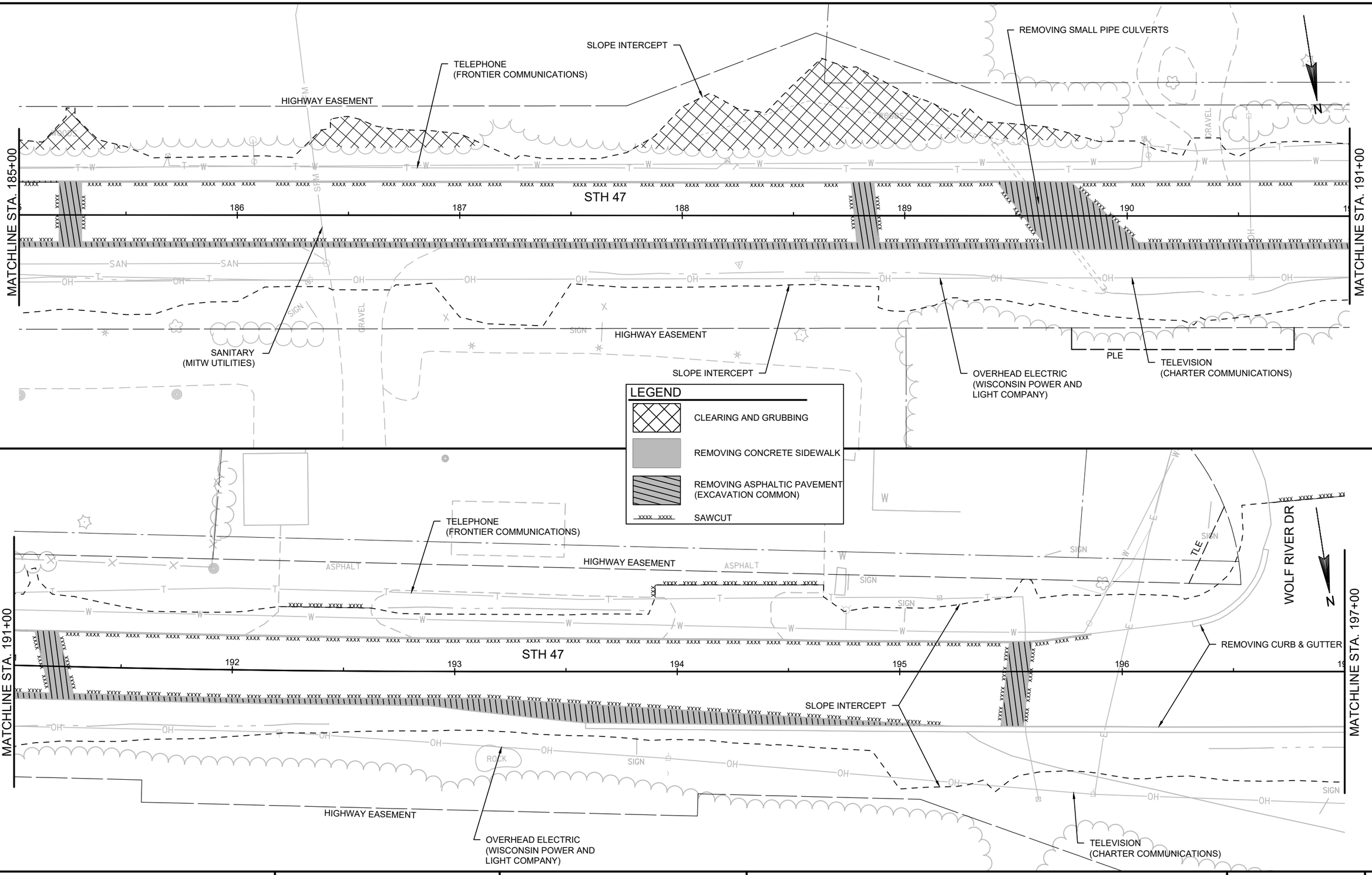
MATCHLINE STA. 179+00

MATCHLINE STA. 185+00

STH 47

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	REMOVALS	SHEET 26	E

2



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	REMOVALS	SHEET 27	E

2

WOLF RIVER DR

MATCHLINE STA. 197+00

TLE

HIGHWAY EASEMENT

REMOVING SMALL PIPE CULVERTS

REMOVING CURB & GUTTER

REMOVING GUARDRAIL

198 199 200 201 202

STH 47

SLOPE INTERCEPT

REMOVING SURFACE DRAINS

TELEVISION
(CHARTER COMMUNICATIONS)

HIGHWAY EASEMENT

TLE

OVERHEAD ELECTRIC
(WISCONSIN POWER AND
LIGHT COMPANY)

STA 197+95.3
END RECONDITION
BEGIN RESURFACE

MATCHLINE STA. 203+00

N

LEGEND

- CLEARING AND GRUBBING
- REMOVING CONCRETE SIDEWALK
- REMOVING ASPHALTIC PAVEMENT (EXCAVATION COMMON)
- SAWCUT

HIGHWAY EASEMENT

REMOVING GUARDRAIL

MATCHLINE STA. 203+00

204 205 206 207

STH 47

SLOPE INTERCEPT

18" CP

HIGHWAY EASEMENT

MATCHLINE STA. 208+00

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	REMOVALS	SHEET 28	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0210_PD.DWG PLOT DATE : 1/30/2020 11:10 AM PLOT BY : DOLAN, ISAAC PLOT NAME :

2

2

HIGHWAY EASEMENT

+97.39, -56.06' LT
REMOVE TO NEAREST SPLICE LOCATION
FIELD VERIFY LOCATION

COURTHOUSE LN

REMOVING GUARDRAIL

RIPRAP

REMOVING CONCRETE PAVEMENT

STH 47

MATCHLINE STA. 208+00

MATCHLINE STA. 214+00

208 209 210 211 212 213

REMOVING CURB & GUTTER

SLOPE INTERCEPT

REMOVING GUARDRAIL

RIPRAP

STH 55

SIGN

OH

FO

36" CP

WOLF RIVER

N

HIGHWAY EASEMENT

RIPRAP

REMOVING GUARDRAIL

INL

REMOVING CONCRETE PAVEMENT

STH 47

MATCHLINE STA. 214+00

214 215 216 217 218 219 220

INL

REMOVING SURFACE DRAINS

SLOPE INTERCEPT

WOLF RIVER

REMOVING GUARDRAIL

RIPRAP

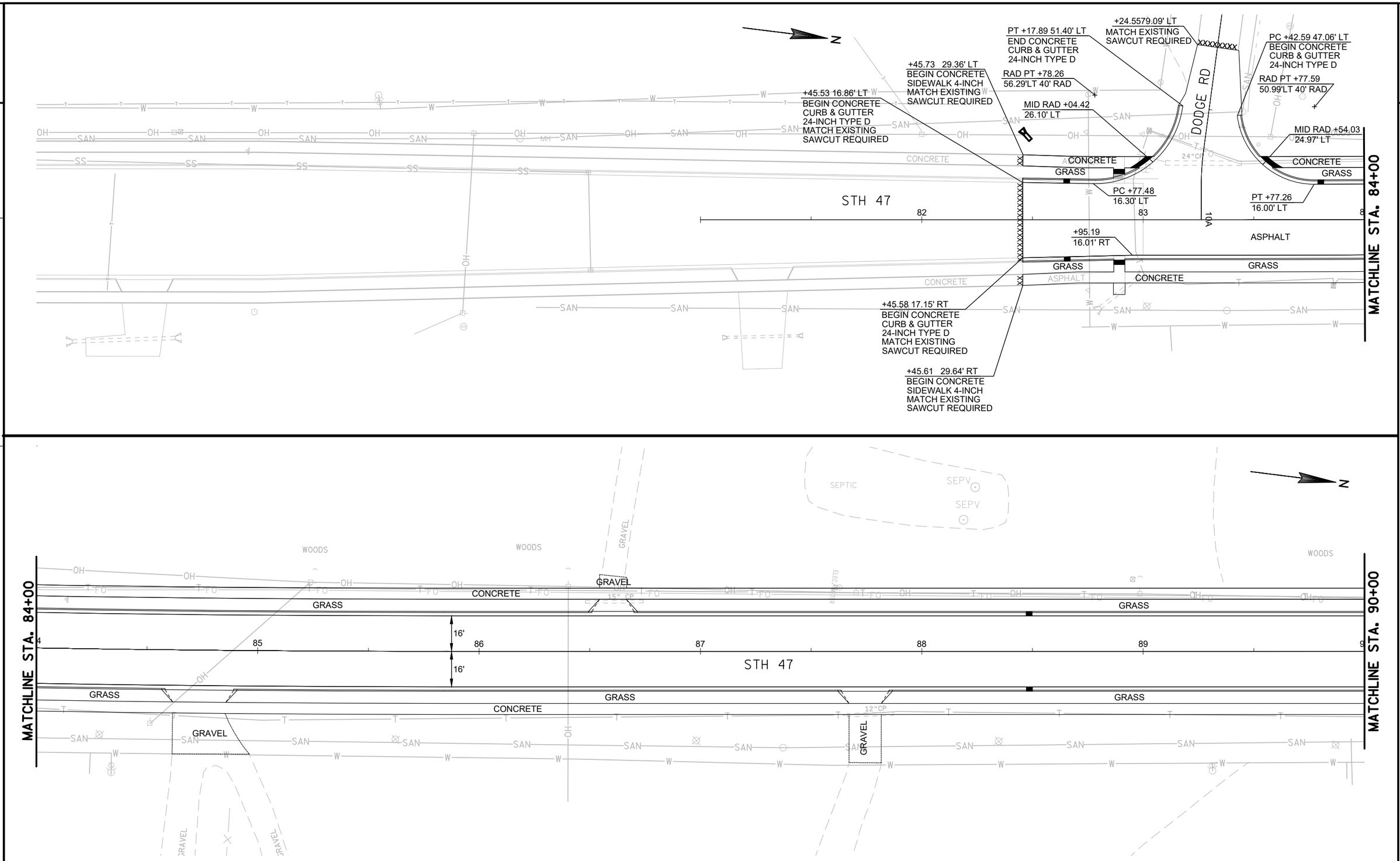
HIGHWAY EASEMENT

N

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	REMOVALS	SHEET 29	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0210_PD.DWG PLOT DATE : 1/30/2020 11:10 AM PLOT BY : DOLAN, ISAAC PLOT NAME :

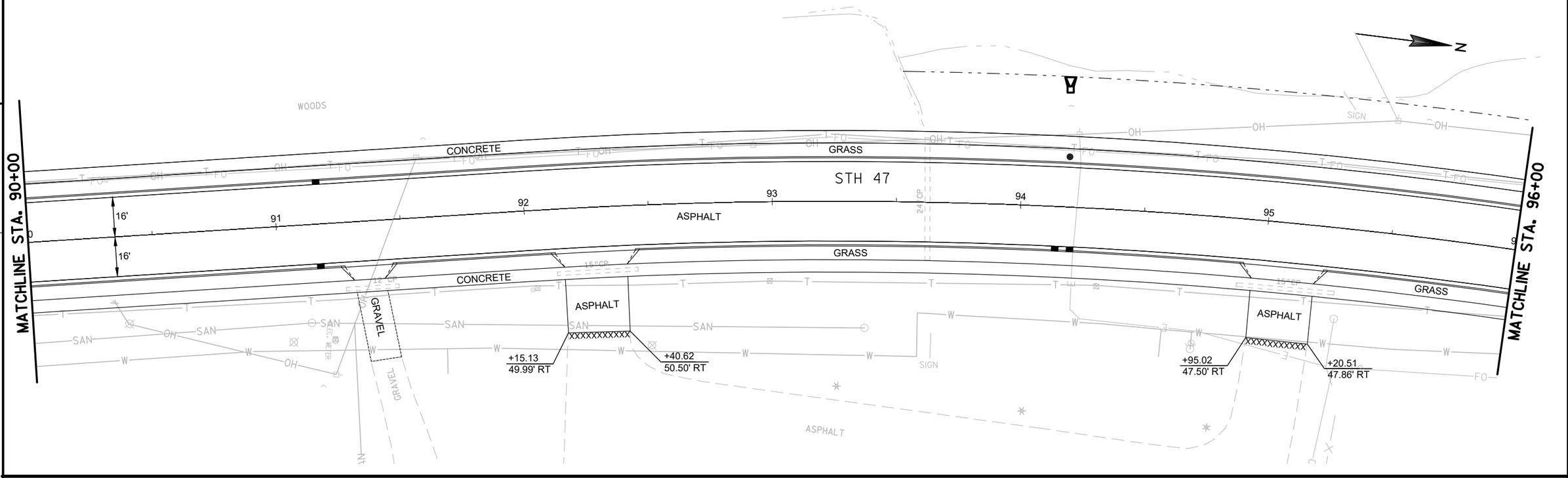
WISDOT/CADDS SHEET 41

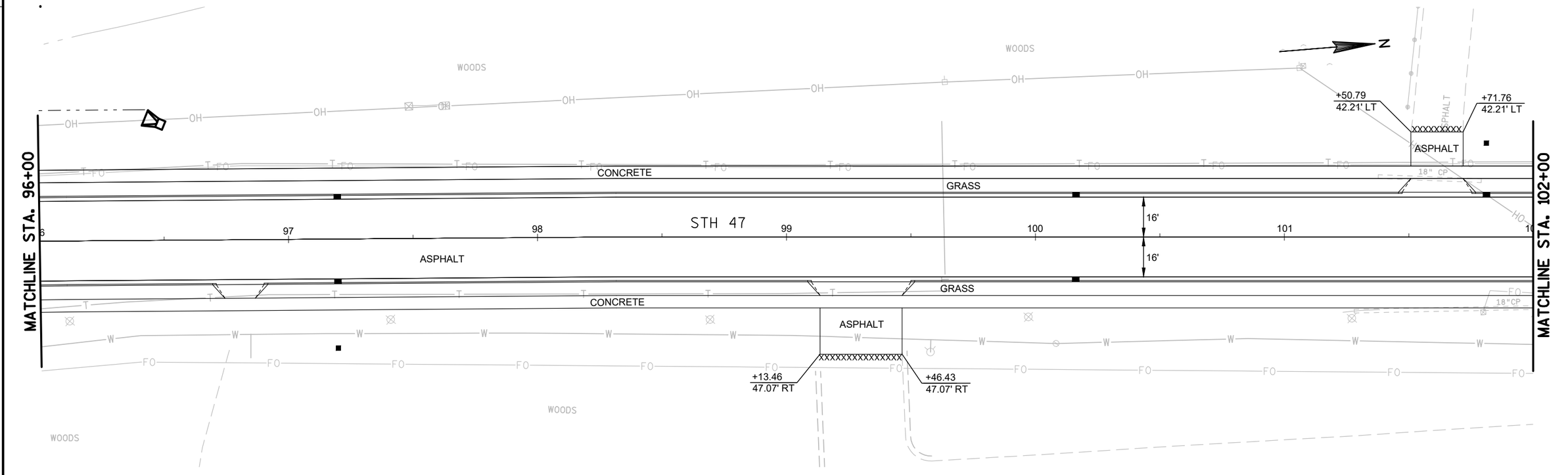


PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	LAYOUT	SHEET 30	E

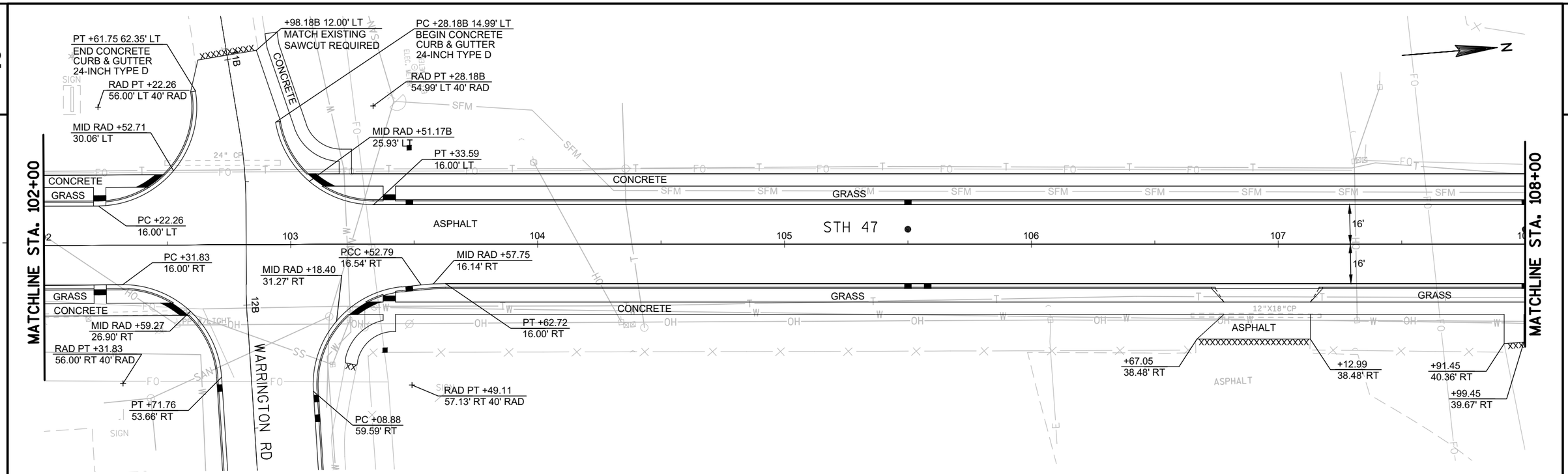
FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0211_ID.DWG PLOT DATE : 1/30/2020 4:13 PM PLOT BY : DOLAN, ISAAC PLOT NAME :

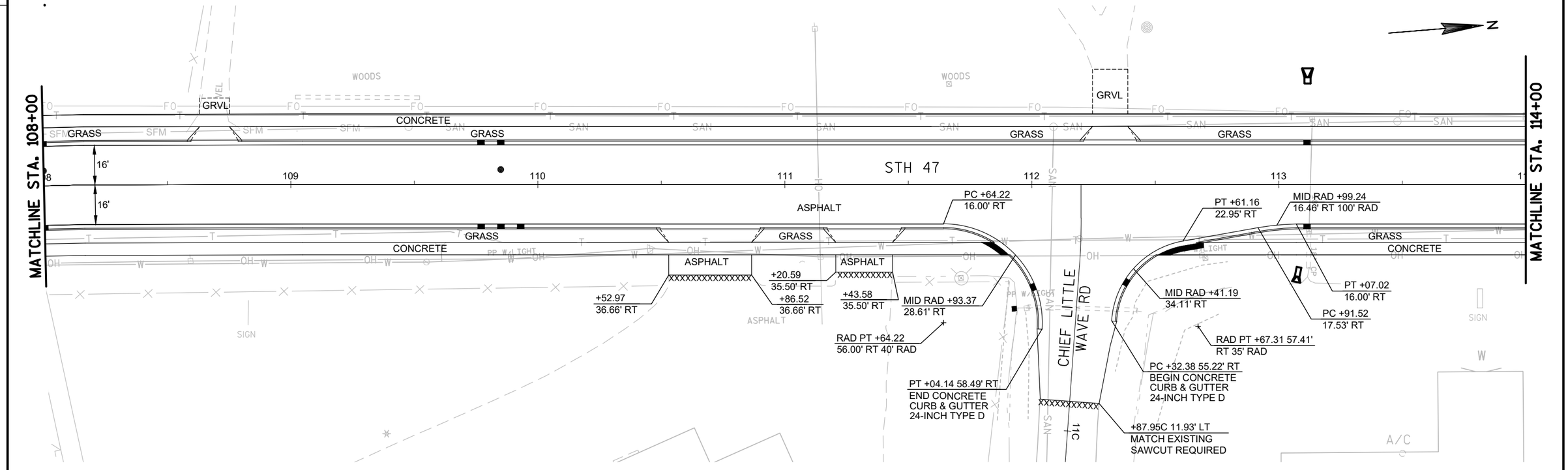
WISDOT/CADDS SHEET 42





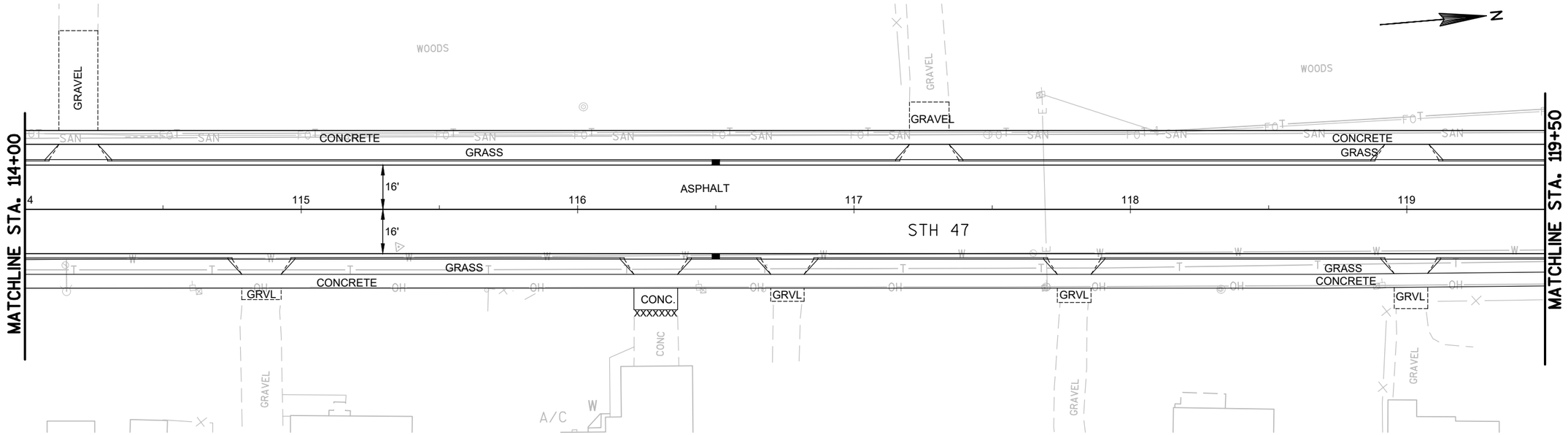
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	LAYOUT	SHEET 31	E

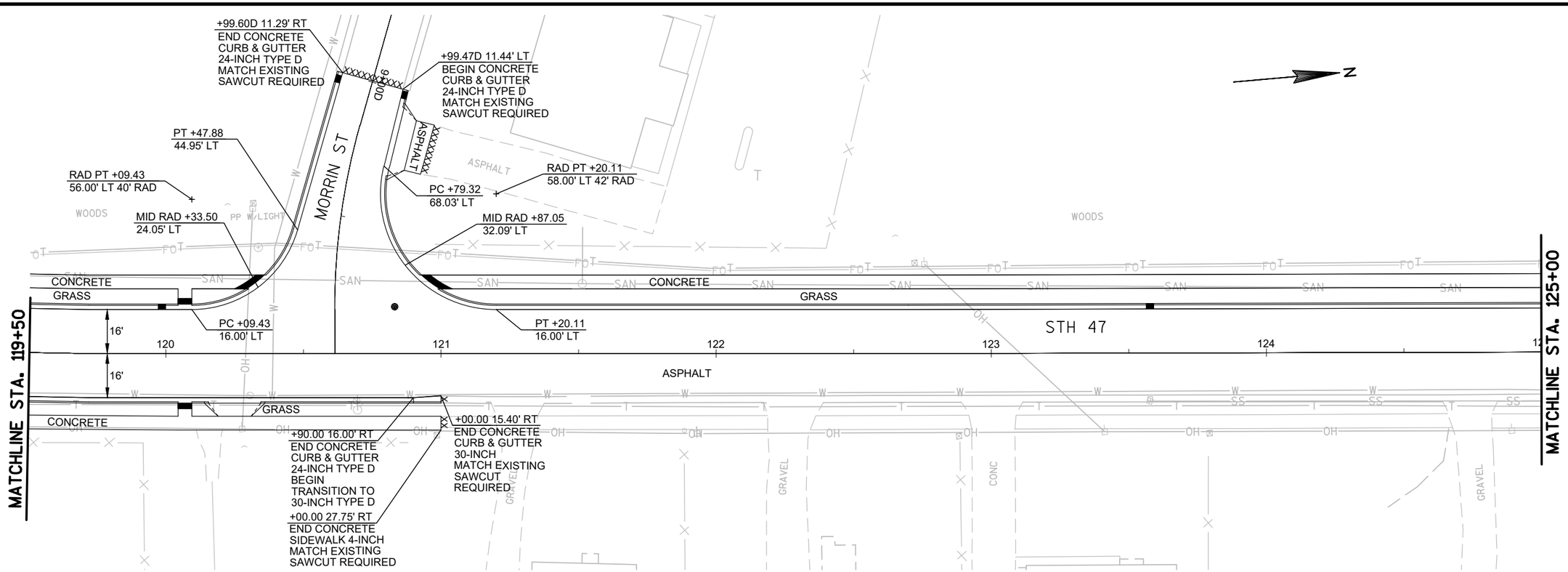




PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	LAYOUT	SHEET 32	E

2





PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	LAYOUT	SHEET 33	E

MATCHLINE STA. 125+00

+58.40 15.25' RT
BEGIN CONCRETE
CURB & GUTTER
30-INCH
MATCH EXISTING
SAWCUT REQUIRED

+67.30 15.53' RT
END CONCRETE
CURB & GUTTER
30-INCH
MATCH EXISTING
SAWCUT REQUIRED

CONCRETE

GRVL

GRAVEL

GRAVEL

CHIEF CARRON RD

+37.76 69.55' RT
MATCH EXISTING
SAWCUT REQUIRED

+84.91 19.09' RT
BEGIN CONCRETE
CURB & GUTTER
30-INCH BEGIN
TRANSITION TO
24-INCH TYPE D
MATCH EXISTING
SAWCUT REQUIRED

+94.78 18.54' RT
BEGIN CONCRETE
CURB & GUTTER
24-INCH TYPE D

PC +22.15
16.00' RT

16'

16'

STH 47

GRASS

CONCRETE

ASPHALT

ASPHALT

+74.77
39.49' RT

PRC +47.80
16.00' RT

RAD PT +47.80
61.00' RT 45' RAD

PT +90.97 61.75' RT
END CONCRETE
CURB & GUTTER
24-INCH TYPE D

MID RAD +79.02
29.55' RT

GRAVEL

WOLF CT

MID RAD +29.37
28.52' RT

MID RAD +32.54
39.29' RT

PRC +60.76
16.00' RT

GRASS

PT +42.10
35.64' RT

RAD PT +41.92
50.65' RT 15' RAD BOW

ASPHALT

RAD PT +59.30
61.00' RT 45' RAD

PC +27.23 50.53' RT
BEGIN CONCRETE
SIDEWALK 4-INCH
MATCH EXISTING
SAWCUT REQUIRED

PC +15.94 58.82' RT
BEGIN CONCRETE
CURB & GUTTER
24-INCH TYPE D

+09.02 98.39' RT
MATH EXISTING
SAWCUT REQUIRED

+43.47
33.21' LT

XXXXXXX
ASPHALT

MATCHLINE STA. 131+00

2

+19.25G 11.00' RT
END CONCRETE
CURB & GUTTER
24-INCH TYPE D
MATCH EXISTING
SAWCUT
REQUIRED

PT +84.54
69.03' LT

RAD PT +44.20
56.00' LT 40' RAD

MID RAD +78.13
32.58' LT

CONCRETE

GRASS

PC+44.28
16.00' LT

MATCHLINE STA. 131+00

PRC +60.74
16.00' RT

GRASS

CONCRETE

RAD PT +55.68 59.37' RT
43.7' RAD

PT +96.01
68.09' RT

MID RAD +68.06G
12.62' LT

PC +82.07G 13.00' LT
BEGIN CONCRETE
CURB & GUTTER
24-INCH TYPE D
MATCH EXISTING
SAWCUT REQUIRED

OUR CHILDREN'S RD

MID RAD +87.75
31.36' RT

PRC +23.64
54.62' RT

+19.27G 11.18' LT
BEGIN CONCRETE
CURB & GUTTER
24-INCH TYPE D
MATCH EXISTING
SAWCUT REQUIRED

BROOKS LN

RAD PT +76.60 76.00' LT
60' RAD

PC +15.83
56.46' LT

MID RAD +40.02
27.04' LT

PT +76.60
16.00' LT

MID RAD +37.40
27.10' RT

PT +65.76
15.99' RT

PT +56.90
35.55' RT

MID RAD +43.08
38.92' RT

PC +34.22
48.58' RT

RAD PT +65.76 60.99' RT
45' RAD

RAD PT +55.05 60.53' RT
25' RAD BOW

PC +33.92 50.14' RT
BEGIN CONCRETE
SIDEWALK 4-INCH
MATCH EXISTING
SAWCUT REQUIRED

CONCRETE

GRASS

16'

16'

STH 47

GRASS

CONCRETE

+17.29
28.50' LT

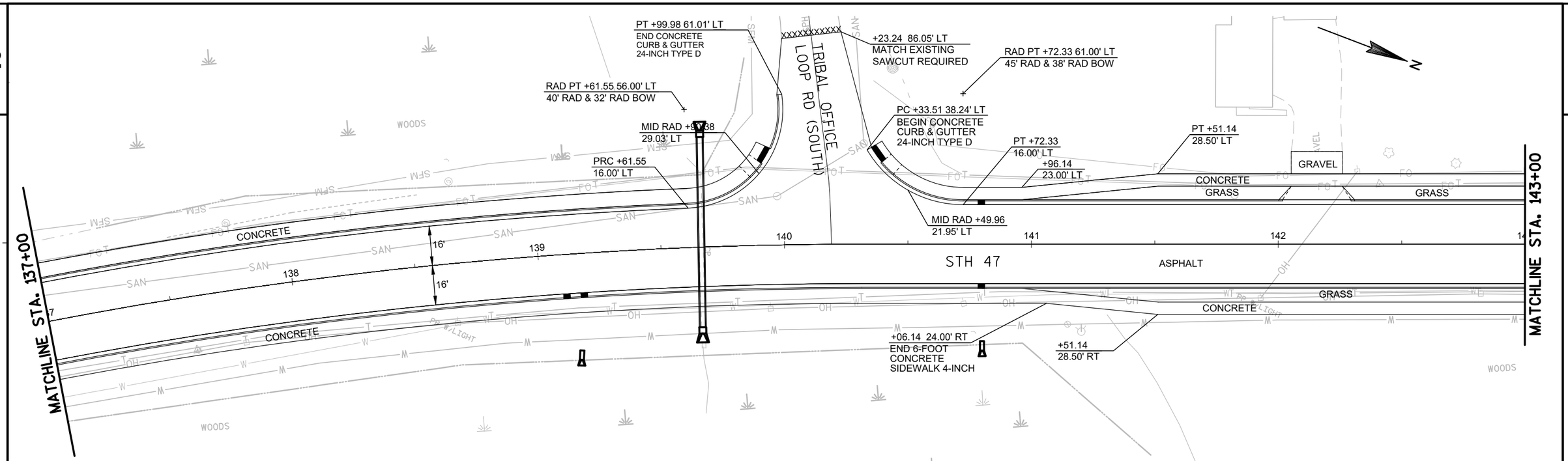
+61.73 24.00' LT
BEGIN 6-FOOT
CONCRETE
SIDEWALK 4-INCH

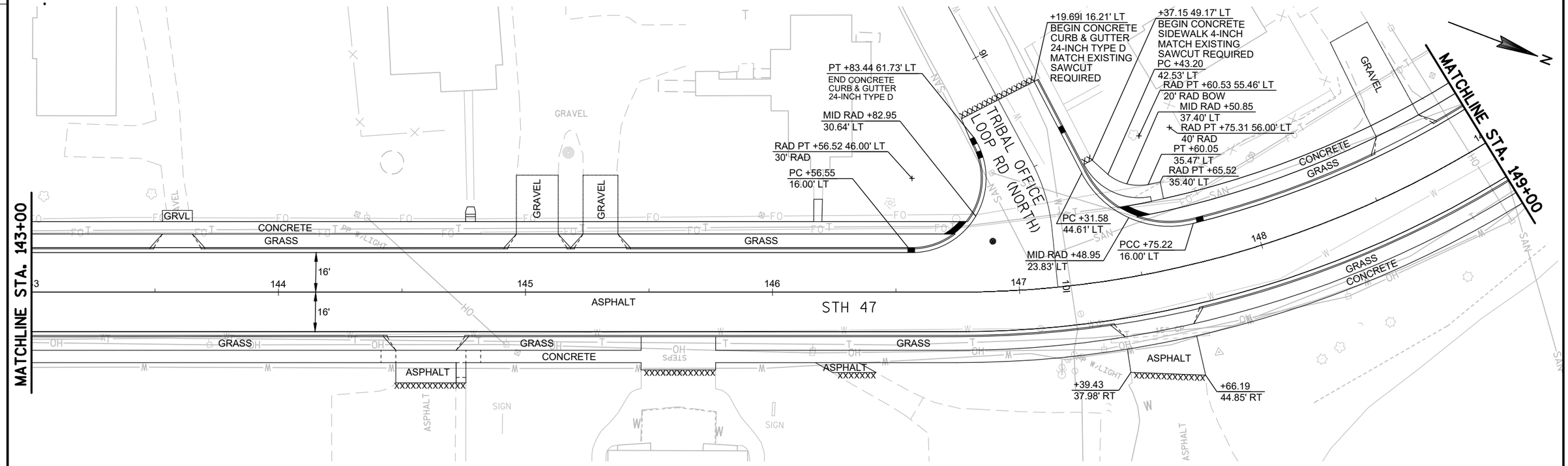
+17.27
28.50' RT

+62.77 24.00' RT
BEGIN 6-FOOT
CONCRETE
SIDEWALK 4-INCH

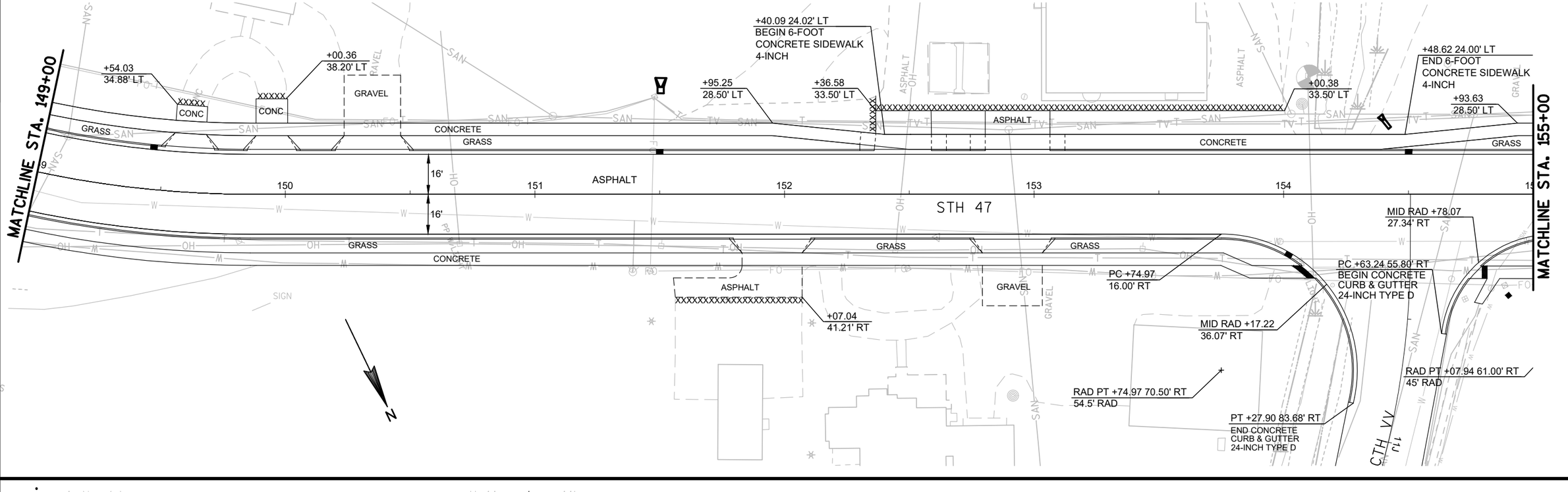
MATCHLINE STA. 137+00

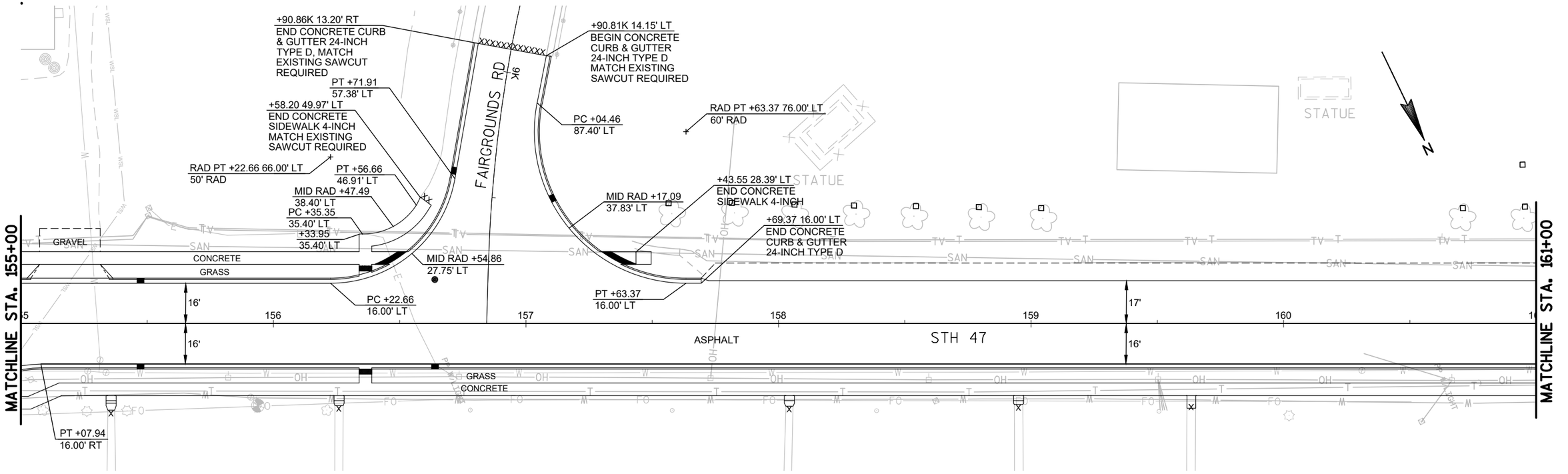
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	LAYOUT	SHEET 34	E





PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	LAYOUT	SHEET 35	E





PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	LAYOUT	SHEET 36	E

MATCHLINE STA. 161+00

17'
16'

1 162 163 164 165 166

STH 47

ASPHALT

WOODS

RAD PT +05.31
87.00' LT 70' RAD

+47.61
29.37' LT

+23.81
29.37' LT

PT +50.61 32.87' LT

PC +00.90
31.26' LT

LYONS RD

W6

+05.73M 10.29' LT
MATCH EXISTING
SAWCUT REQUIRED

RAD PT +03.37
26.90' LT 5' RAD

MID RAD +98.47
25.75' LT

PT +03.13
21.91' LT

ASPHALT

PC +04.56
17.00' LT

MID RAD +28.95
20.96' LT

PRC +19.10
16.00' RT

PT +27.93
16.00' RT

GRASS
CONCRETE

GRASS
CONCRETE

MID RAD +47.06
35.61' RT

RAD PT +18.48
47.20' RT 31.2' RAD

PT +40.16 69.23' RT
END CONCRETE
CURB & GUTTER
24-INCH TYPE D

MID RAD +03.78
24.53' RT

RAD PT +28.15
56.03' RT 40' RAD

PC +91.91 46.68' RT
BEGIN CONCRETE
CURB & GUTTER
24-INCH TYPE D

+30.37L 8.34' RT
MATCH EXISTING
SAWCUT REQUIRED

BLACKSMITH RD

MATCHLINE STA. 167+00

MATCHLINE STA. 167+00

17'
16'

7 168 169 170 171 172 17

STH 47

WOODS

GRAVEL

PC +96.24
16.00' RT

CONCRETE

PT +14.47
16.00' RT

GRASS
CONCRETE

+56.70
28.50' RT

+92.36 24.04' RT
BEGIN 6-FOOT
CONCRETE
SIDEWALK 4-INCH

+76.31 24.04' RT
END 6-FOOT
CONCRETE
SIDEWALK 4-INCH

+11.97
28.50' RT
MID RAD +31.00
32.42' RT

MID RAD +85.90
26.24' RT

RAD PT +14.47
61.00' RT 45' RAD

RAD PT +96.24
61.00' RT 45' RAD

PT +40.24 70.46' RT
END CONCRETE
CURB & GUTTER
24-INCH TYPE D

PT +70.15 53.20' RT
BEGIN CONCRETE
CURB & GUTTER
24-INCH TYPE D

RABBIT RIDGE RD

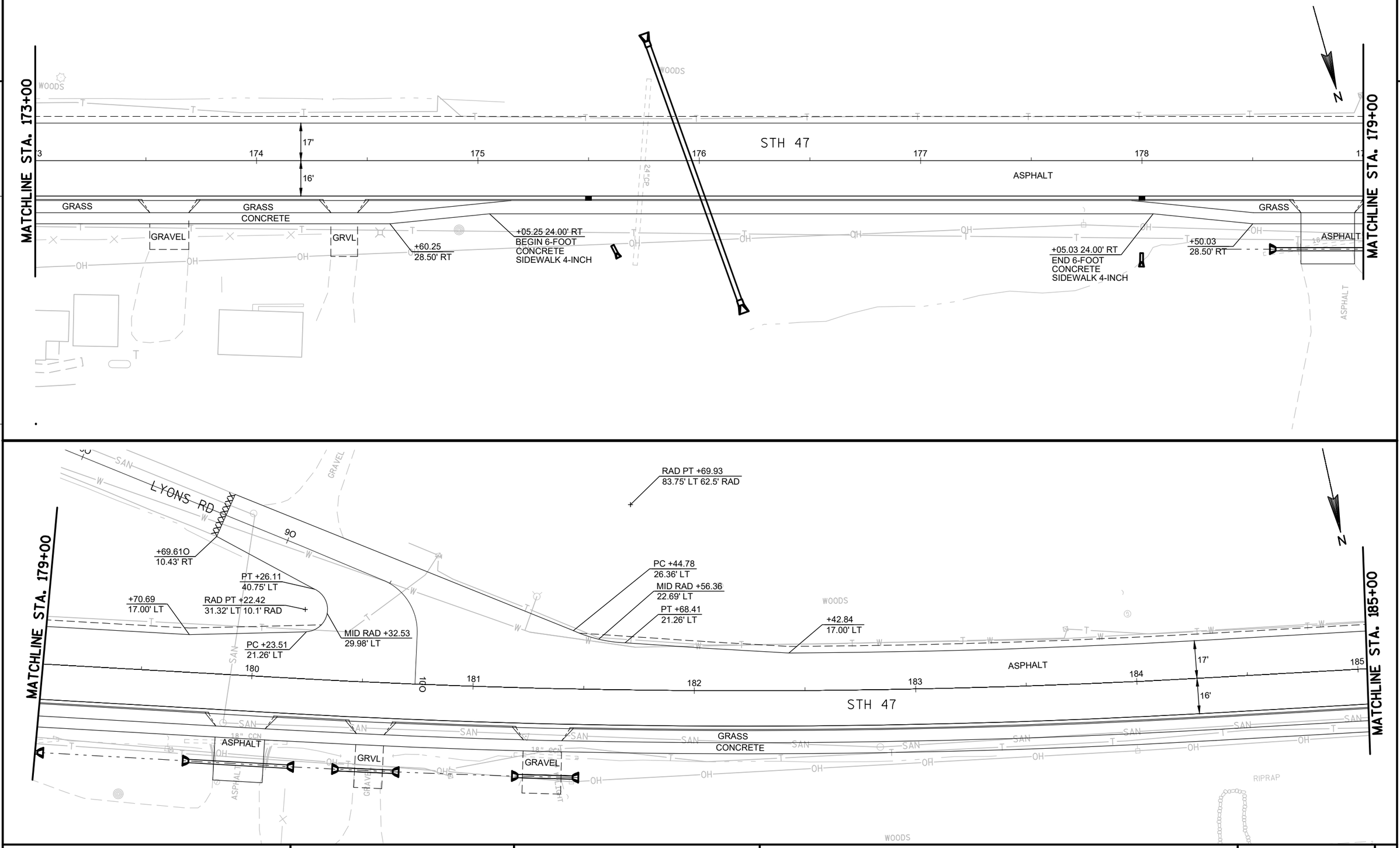
+20.08N 10.33' RT
MATCH EXISTING
SAWCUT REQUIRED

MATCHLINE STA. 173+00

SIGN

ANT

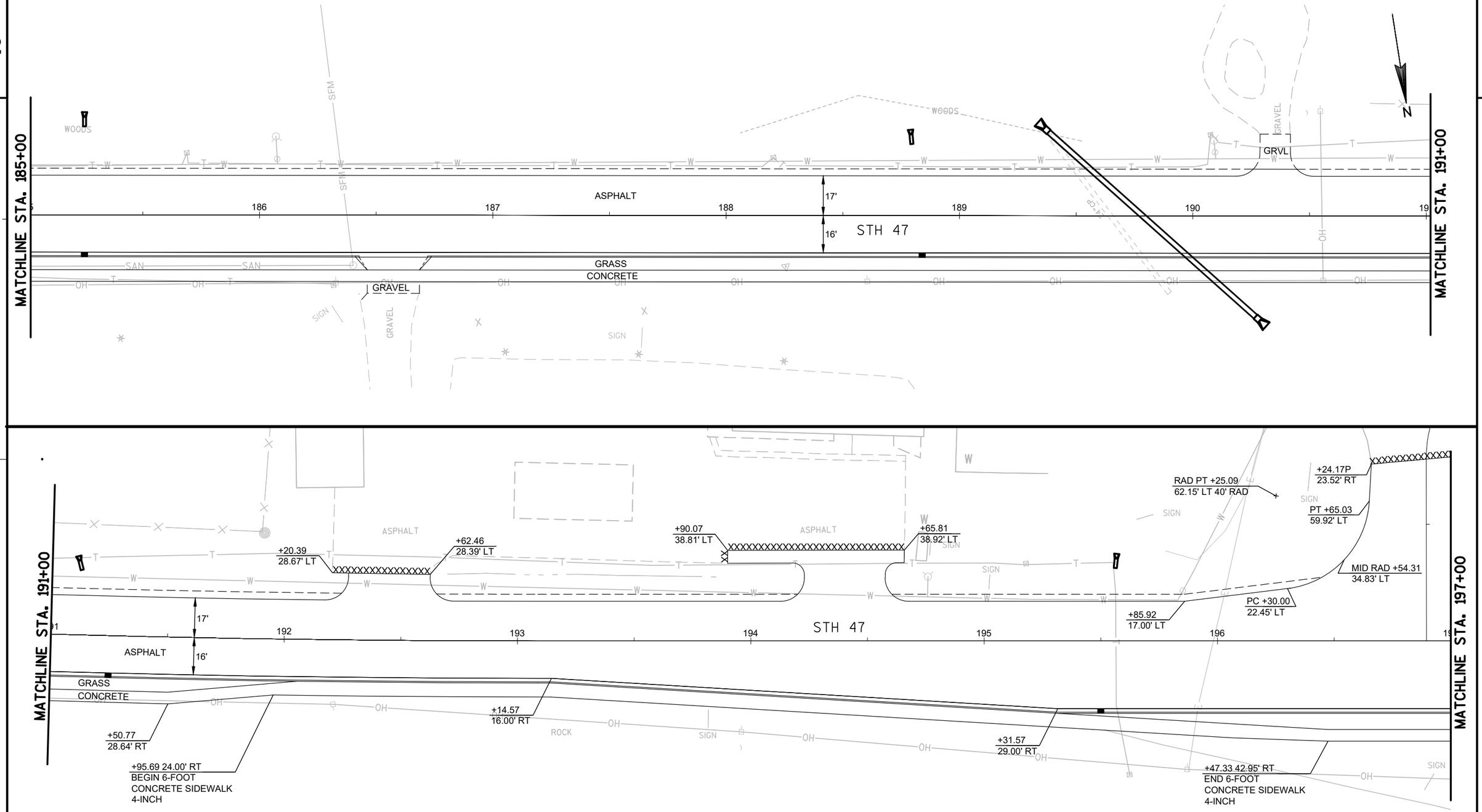
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	LAYOUT	SHEET 37	E



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	LAYOUT	SHEET 38	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0211_ID.DWG PLOT DATE : 1/30/2020 4:17 PM PLOT BY : DOLAN, ISAAC PLOT NAME :

2



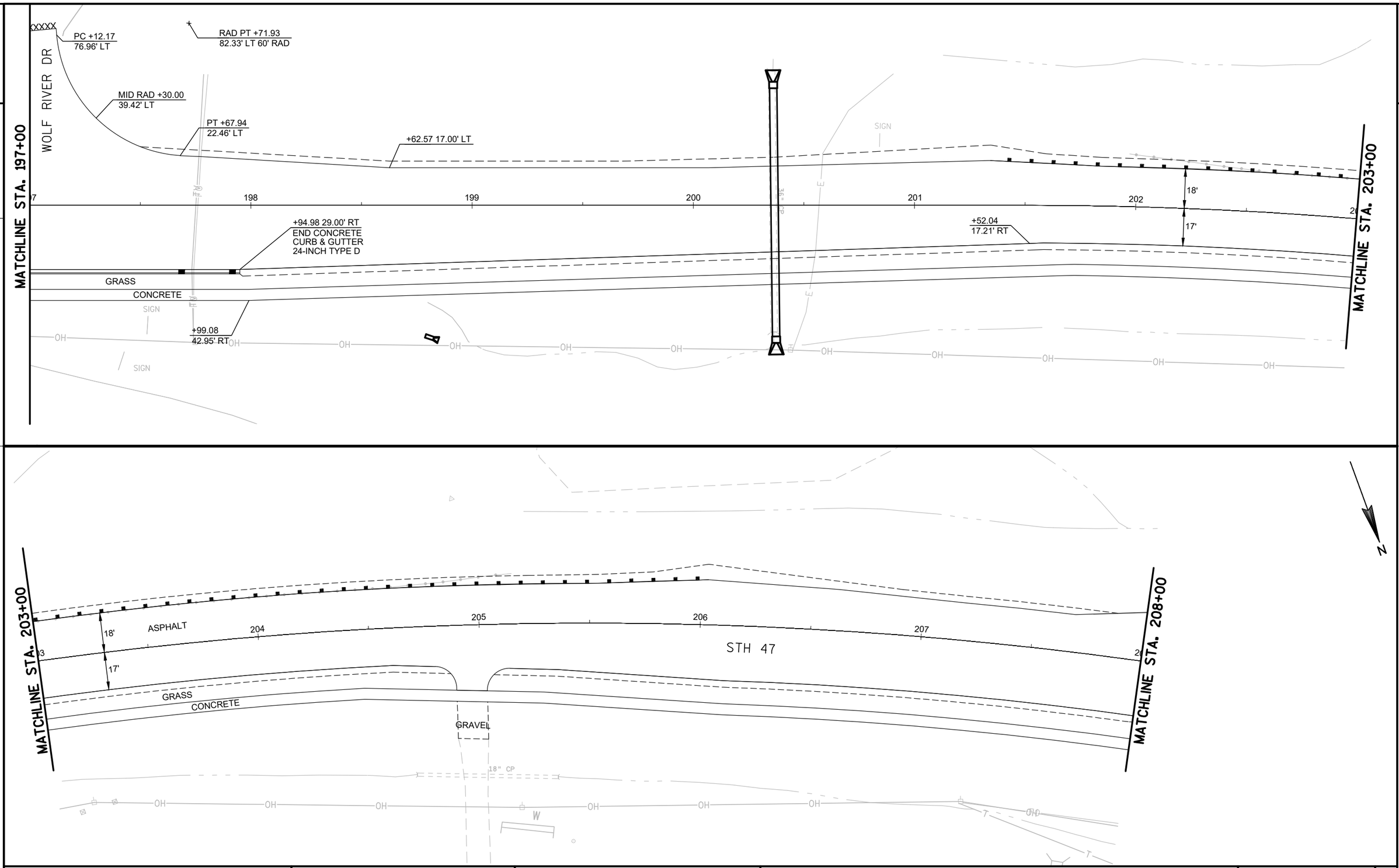
2

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	LAYOUT	SHEET 39	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0211_ID.DWG PLOT DATE : 1/30/2020 4:18 PM PLOT BY : DOLAN, ISAAC PLOT NAME :

WISDOT/CADDS SHEET 42

2



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	LAYOUT	SHEET 40	E

2

MATCHLINE STA. 208+00

MATCHLINE STA. 214+00

+21.71Q
15.51' RT

COURTHOUSE LN

STH 55

STH 47

STH 47

10+00Q

208 209 210 211 212 213 214

+47.75
18.00' LT

18'

18'

ASPHALT

CONCRETE

+42.97
26.00' RT

+18.40
40.50' RT

+52.59 25.15' RT
END CONCRETE
SIDEWALK 4-INCH
MATCH EXISTING

+73.82Q 22.48' RT
MATCH EXISTING
SAWCUT REQUIRED

RIPRAP

RIPRAP

SIGN

OH

FO

36" CP

WOLF RIVER

N

MATCHLINE STA. 214+00

214 215 216 217 218 219 220

18'

18'

17'

17'

INL

INL

STH 47

CONCRETE

+51.2525.15' RT
BEGIN CONCRETE
SIDEWALK 4-INCH
MATCH EXISTING

+14.60
26.00' RT

+58.44
32.15' RT

+14.0130.09' RT
END CONCRETE
SIDEWALK 4-INCH

RIPRAP

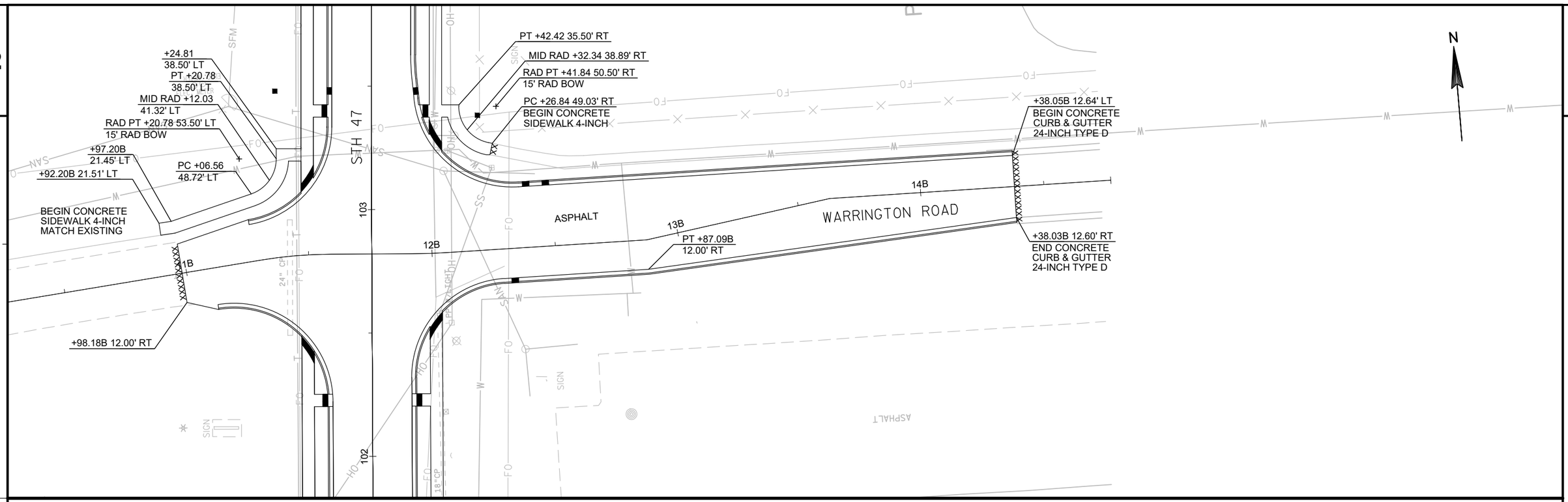
RIPRAP

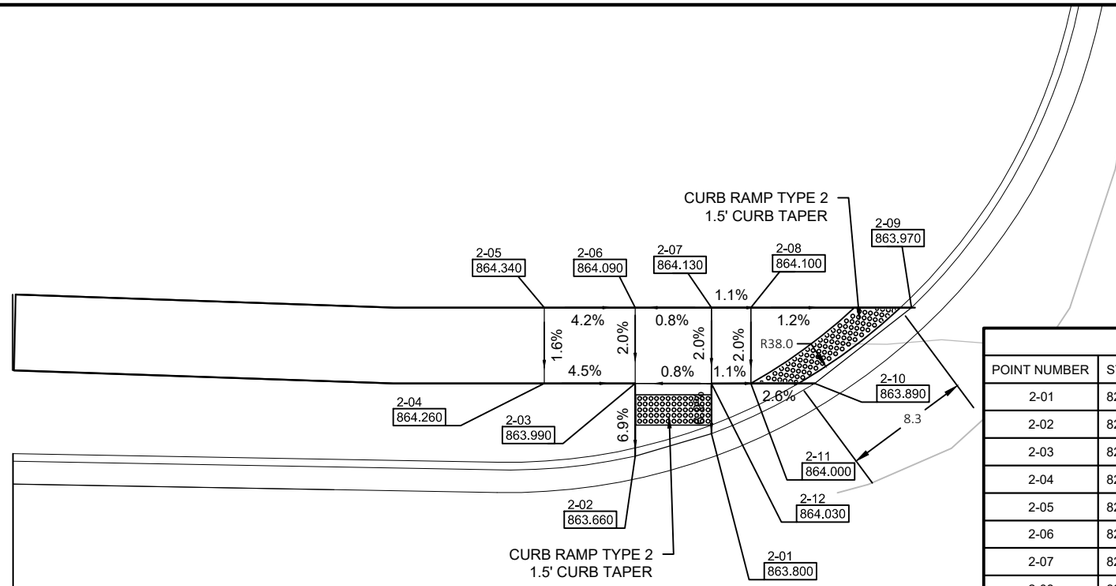
WOLF RIVER

WOLF

N

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	LAYOUT	SHEET 41	E


+24.81
38.50' LT
PT +20.78
38.50' LT
MID RAD +12.03
41.32' LT
RAD PT +20.78 53.50' LT
15' RAD BOW
+97.20B
21.45' LT
+92.20B 21.51' LT
PC +06.56
48.72' LT
BEGIN CONCRETE
SIDEWALK 4-INCH
MATCH EXISTING
STH 47
103
102
1B
12B
13B
14B
ASPHALT
WARRINGTON ROAD
PT +87.09B
12.00' RT
+98.18B 12.00' RT
PT +42.42 35.50' RT
MID RAD +32.34 38.89' RT
RAD PT +41.84 50.50' RT
15' RAD BOW
PC +26.84 49.03' RT
BEGIN CONCRETE
SIDEWALK 4-INCH
+38.05B 12.64' LT
BEGIN CONCRETE
CURB & GUTTER
24-INCH TYPE D
+38.03B 12.60' RT
END CONCRETE
CURB & GUTTER
24-INCH TYPE D
N

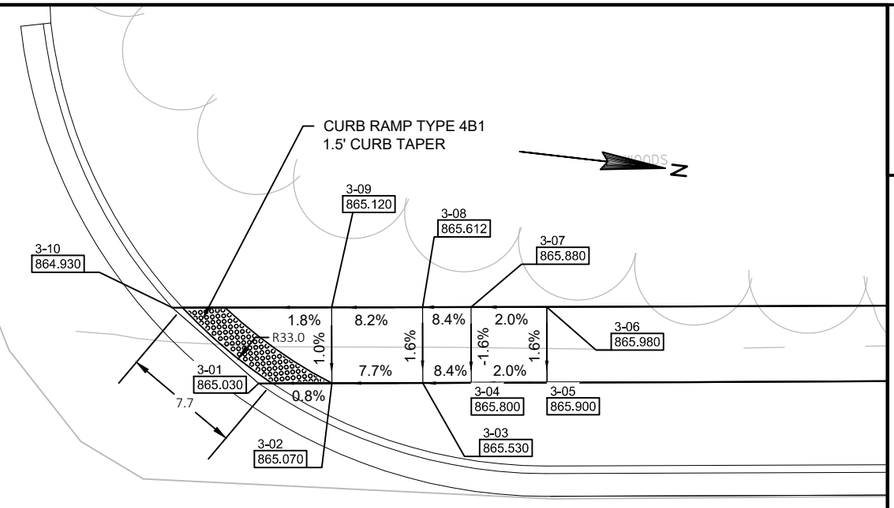


2			
POINT NUMBER	STATION	OFFSET	ELEVATION
2-01	82+91.63	-20.181	863.800
2-02	82+86.61	-18.701	863.660
2-03	82+86.61	-23.500	863.990
2-04	82+80.61	-23.500	864.260
2-05	82+80.61	-28.500	864.340
2-06	82+86.61	-28.500	864.090
2-07	82+91.63	-28.500	864.130
2-08	82+94.24	-28.500	864.100
2-09	83+04.83	-28.500	863.970
2-10	82+98.44	-23.500	863.890
2-11	82+94.24	-23.495	864.000
2-12	82+91.63	-23.492	864.030

DODGE RD

83+00

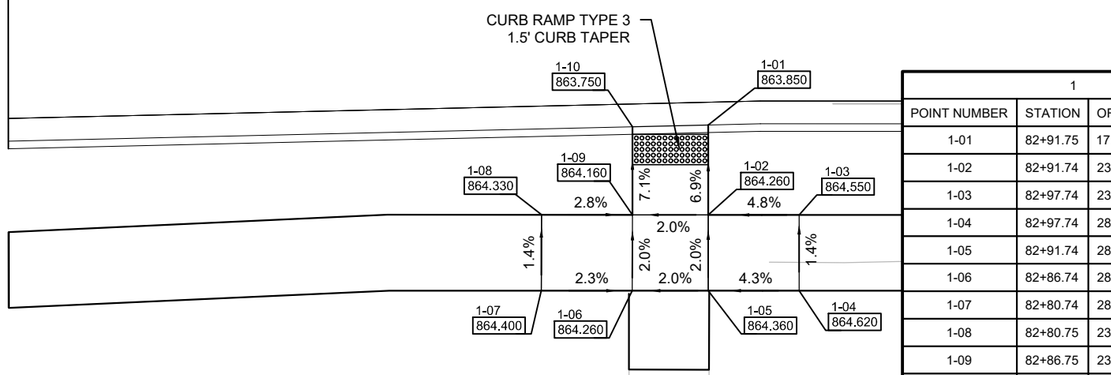
STH 47



3			
POINT NUMBER	STATION	OFFSET	ELEVATION
3-01	83+58.32	-23.500	865.030
3-02	83+63.16	-23.500	865.070
3-03	83+69.17	-23.498	865.530
3-04	83+72.38	-23.496	865.800
3-05	83+77.39	-23.500	865.900
3-06	83+77.39	-28.495	865.980
3-07	83+72.38	-28.497	865.880
3-08	83+69.17	-28.498	865.612
3-09	83+63.16	-28.500	865.120
3-10	83+52.61	-28.500	864.930

84

ASPHALT



1			
POINT NUMBER	STATION	OFFSET	ELEVATION
1-01	82+91.75	17.580	863.850
1-02	82+91.74	23.500	864.260
1-03	82+97.74	23.500	864.550
1-04	82+97.74	28.500	864.620
1-05	82+91.74	28.500	864.360
1-06	82+86.74	28.500	864.260
1-07	82+80.74	28.498	864.400
1-08	82+80.75	23.498	864.330
1-09	82+86.75	23.500	864.160
1-10	82+86.75	17.695	863.750

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CURB RAMP DETAILS	SHEET	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0211_ID_CR.DWG PLOT DATE : 1/27/2020 2:57 PM PLOT BY : DAY, JOHN PLOT NAME :
WISDOT/CADDS SHEET 42

CURB RAMP TYPE 3
1.5' CURB TAPER

4-01 868.730
4-02 868.790
4-03 868.850
4-04 869.220
4-05 869.140
4-06 869.060
4-07 869.110
4-08 869.230
4-09 869.300
4-10 868.930
4-11 868.870
4-12 869.010
4-13 868.930
4-14 868.790

8.2
R38.0

1.0% 1.0% 1.8% 1.2% -2.3% 1.3% 1.8% -1.0%
1.6% 1.6% 1.6% 1.6%
1.2% 2.3% -1.2%
1.8%

CURB RAMP TYPE 4B1
1.5' CURB TAPER

4			
POINT NUMBER	STATION	OFFSET	ELEVATION
4-01	102+20.26	17.500	868.730
4-02	102+25.26	17.500	868.790
4-03	102+25.26	23.500	868.850
4-04	102+41.31	23.500	869.220
4-05	102+47.31	23.500	869.140
4-06	102+52.47	23.500	869.060
4-07	102+58.77	28.500	869.110
4-08	102+47.31	28.500	869.230
4-09	102+41.31	28.500	869.300
4-10	102+25.26	28.500	868.930
4-11	102+20.26	28.500	868.870
4-12	102+12.27	28.500	869.010
4-13	102+12.27	23.500	868.930
4-14	102+20.27	23.500	868.790

CURB RAMP TYPE 2
1.5' CURB TAPER

7-01 869.710
7-02 869.770
7-03 869.780
7-04 869.990
7-05 870.180
7-06 869.880
7-07 870.380
7-08 870.480
7-09 870.380
7-10 870.280
7-11 869.780
7-12 869.830
7-13 869.920
7-14 869.830
7-15 870.120
7-16 870.040
7-17 869.730
7-18 869.680
7-19 869.660
7-20 869.400

8.8
R38.0

4.2% TO STA. 103+75
5.0% TO STA. 103+75

6.0% 7.0% 1.0% 2.0% 8.3% 2.0% 2.2% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 1.9% 1.6%

CURB RAMP
TYPE 2
1.5' CURB TAPER

7			
POINT NUMBER	STATION	OFFSET	ELEVATION
7-01	103+30.37	23.500	869.710
7-02	103+36.27	23.500	869.770
7-03	103+37.42	23.500	869.780
7-04	103+37.42	20.450	869.990
7-05	103+42.42	19.219	870.180
7-06	103+42.42	23.500	869.880
7-07	103+48.42	23.500	870.380
7-08	103+53.42	23.500	870.480
7-09	103+53.42	28.500	870.380
7-10	103+48.42	28.500	870.280
7-11	103+42.42	28.500	869.780
7-12	103+42.42	30.994	869.830
7-13	103+42.42	35.500	869.920
7-14	103+37.42	36.165	869.830
7-15	103+29.98	41.323	870.120
7-16	103+25.82	38.263	870.040
7-17	103+37.42	30.994	869.730
7-18	103+37.42	28.500	869.680
7-19	103+36.27	28.500	869.660
7-20	103+23.23	28.484	869.400

WARRINGTON RD

SIGN

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CURB RAMP DETAILS	SHEET 44	E

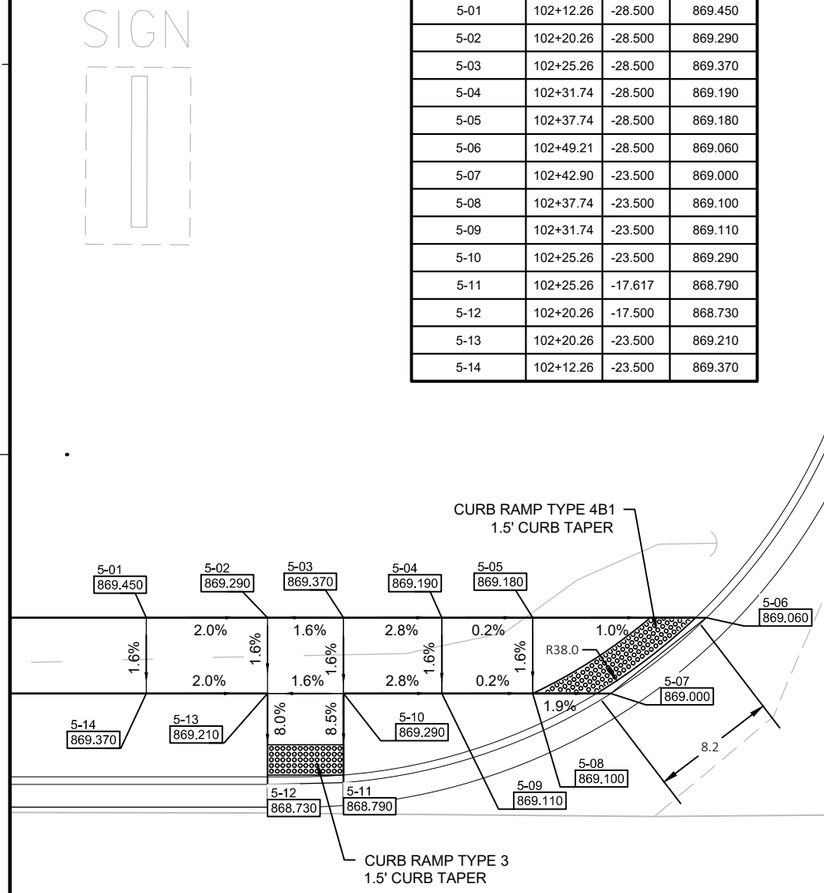
2

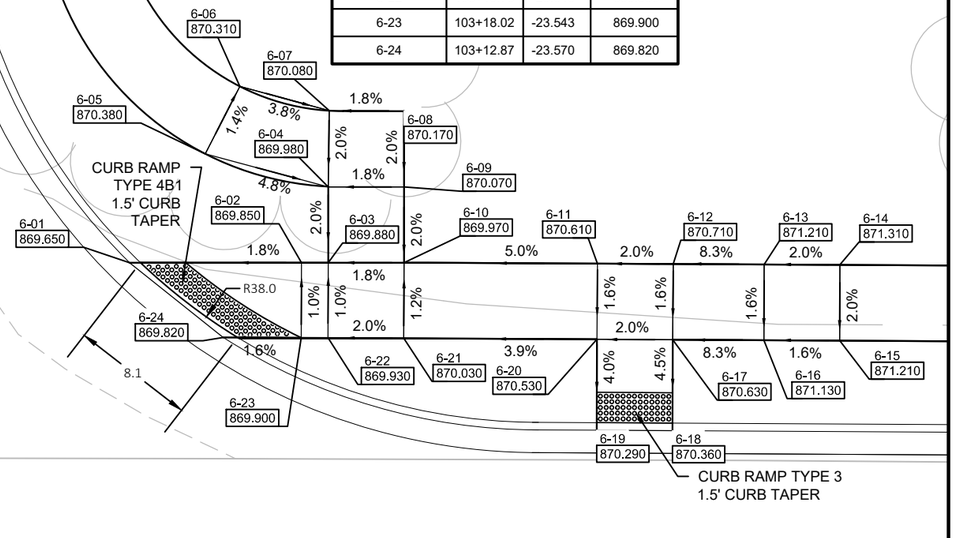
SIGN

5			
POINT NUMBER	STATION	OFFSET	ELEVATION
5-01	102+12.26	-28.500	869.450
5-02	102+20.26	-28.500	869.290
5-03	102+25.26	-28.500	869.370
5-04	102+31.74	-28.500	869.190
5-05	102+37.74	-28.500	869.180
5-06	102+49.21	-28.500	869.060
5-07	102+42.90	-23.500	869.000
5-08	102+37.74	-23.500	869.100
5-09	102+31.74	-23.500	869.110
5-10	102+25.26	-23.500	869.290
5-11	102+25.26	-17.617	868.790
5-12	102+20.26	-17.500	868.730
5-13	102+20.26	-23.500	869.210
5-14	102+12.26	-23.500	869.370

6			
POINT NUMBER	STATION	OFFSET	ELEVATION
6-01	103+06.69	-28.500	869.650
6-02	103+18.05	-28.500	869.850
6-03	103+19.81	-28.500	869.880
6-04	103+19.81	-33.500	869.980
6-05	103+11.70	-35.682	870.380
6-06	103+13.97	-40.136	870.310
6-07	103+19.87	-38.528	870.080
6-08	103+24.81	-38.500	870.170
6-09	103+24.81	-33.500	870.070
6-10	103+24.81	-28.500	869.970
6-11	103+37.42	-28.492	870.610
6-12	103+42.42	-28.492	870.710
6-13	103+48.42	-28.500	871.210
6-14	103+53.42	-28.500	871.310
6-15	103+53.42	-23.500	871.210
6-16	103+48.42	-23.500	871.130
6-17	103+42.42	-23.500	870.630
6-18	103+42.42	-17.500	870.360
6-19	103+37.42	-17.500	870.290
6-20	103+37.42	-23.500	870.530
6-21	103+24.79	-23.508	870.030
6-22	103+19.79	-23.543	869.930
6-23	103+18.02	-23.543	869.900
6-24	103+12.87	-23.570	869.820

N





STH 47

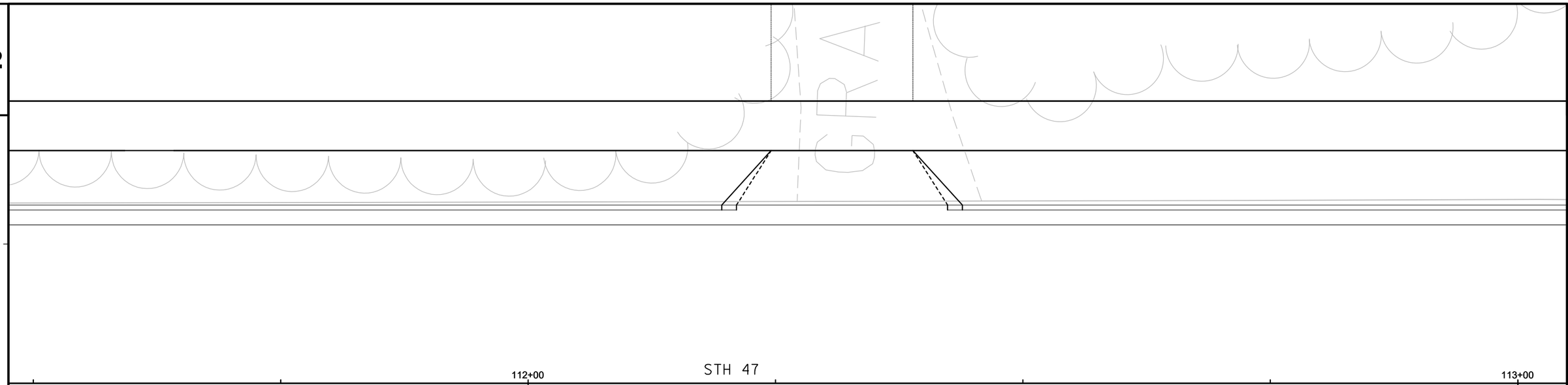
103+00

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CURB RAMP DETAILS	SHEET 45	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0211_ID_CR.DWG PLOT DATE : 1/27/2020 2:57 PM PLOT BY : DAY, JOHN PLOT NAME :

WISDOT/CADDS SHEET 42

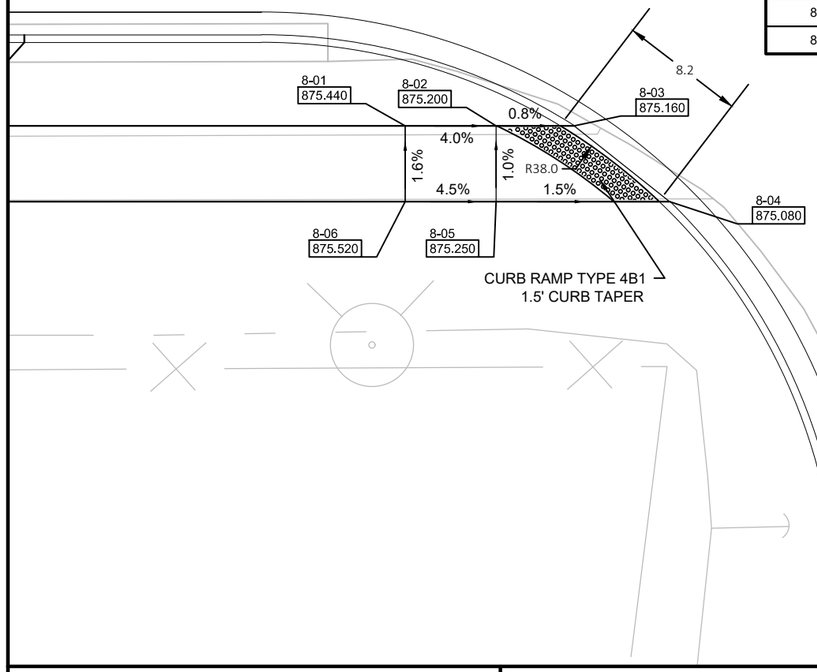
2



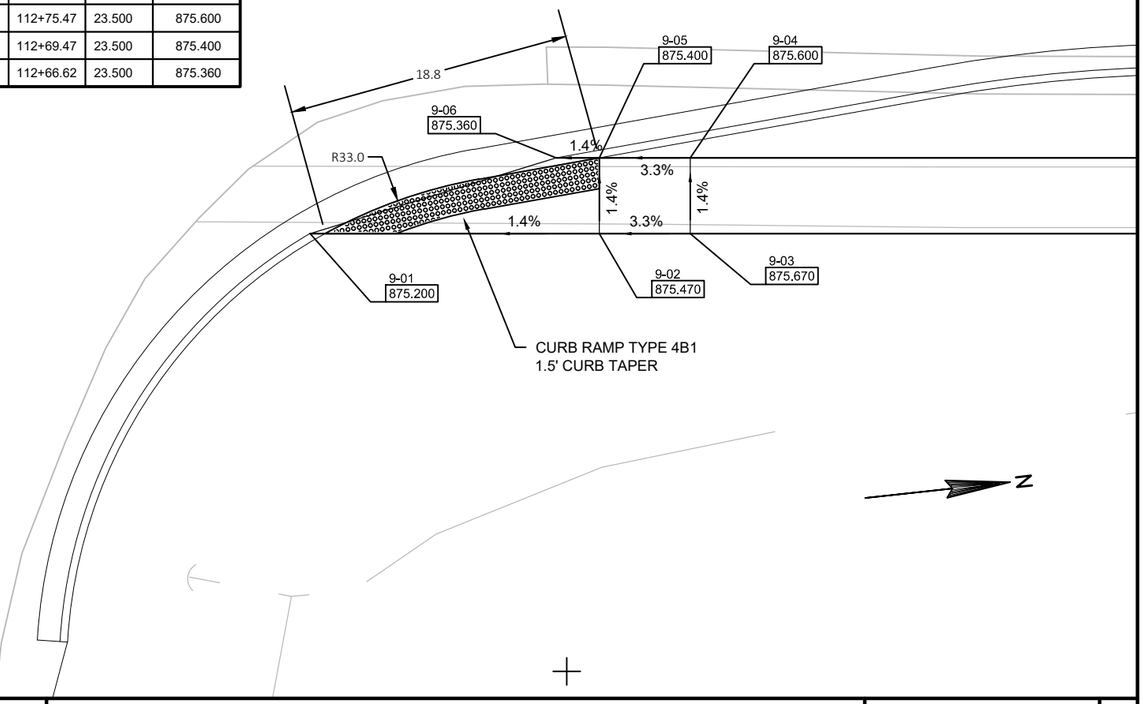
2

8			
POINT NUMBER	STATION	OFFSET	ELEVATION
8-01	111+73.70	23.500	875.440
8-02	111+79.70	23.500	875.200
8-03	111+84.86	23.500	875.160
8-04	111+91.16	28.500	875.080
8-05	111+79.70	28.500	875.250
8-06	111+73.70	28.500	875.520

9			
POINT NUMBER	STATION	OFFSET	ELEVATION
9-01	112+50.38	28.500	875.200
9-02	112+69.47	28.500	875.470
9-03	112+75.47	28.500	875.670
9-04	112+75.47	23.500	875.600
9-05	112+69.47	23.500	875.400
9-06	112+66.62	23.500	875.360

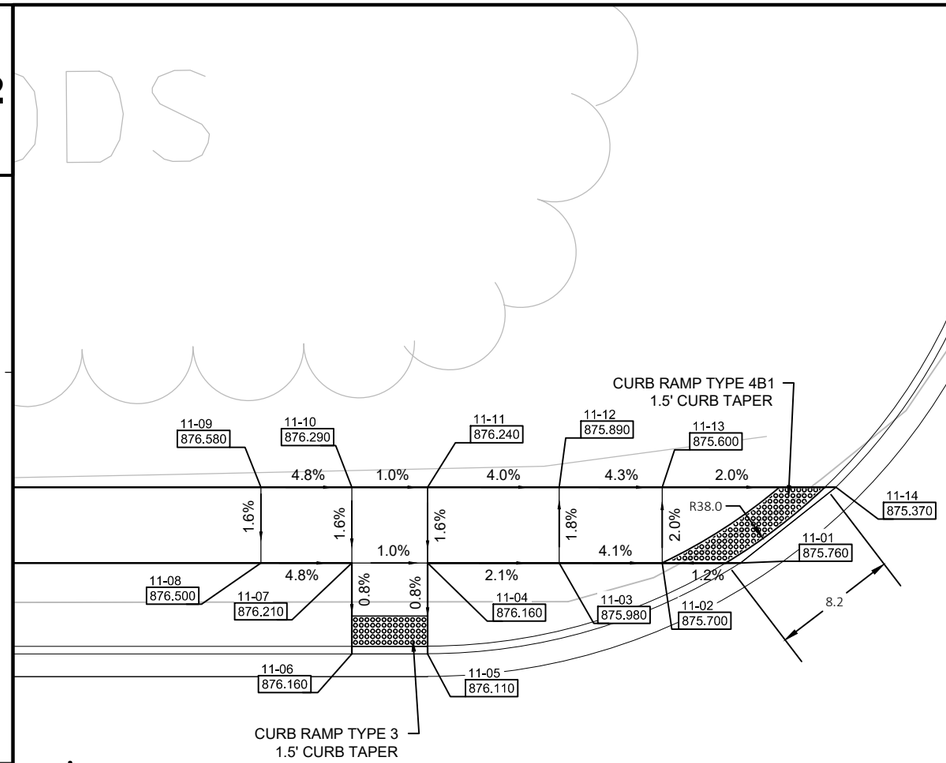


CHIEF LITTLE WAVE RD



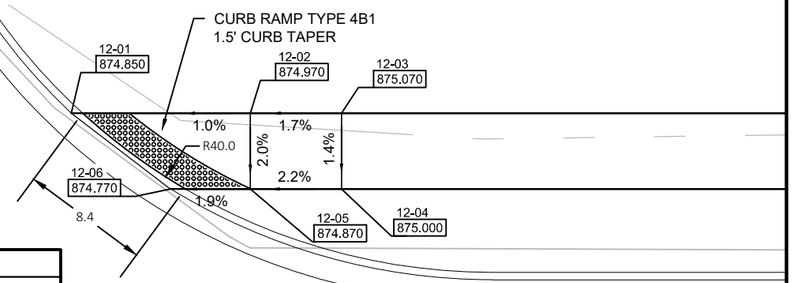
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CURB RAMP DETAILS	SHEET	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0211_ID_CR.DWG PLOT DATE : 1/27/2020 2:57 PM PLOT BY : DAY, JOHN PLOT NAME :



11			
POINT NUMBER	STATION	OFFSET	ELEVATION
11-01	120+30.07	-23.500	875.760
11-02	120+24.92	-23.500	875.700
11-03	120+18.11	-23.500	875.980
11-04	120+09.43	-23.500	876.160
11-05	120+09.43	-17.500	876.110
11-06	120+04.43	-17.500	876.160
11-07	120+04.43	-23.500	876.210
11-08	119+98.43	-23.500	876.500
11-09	119+98.43	-28.500	876.580
11-10	120+04.43	-28.501	876.290
11-11	120+09.43	-28.501	876.240
11-12	120+18.11	-28.500	875.890
11-13	120+24.92	-28.500	875.600
11-14	120+36.38	-28.500	875.370

MORRIN ST

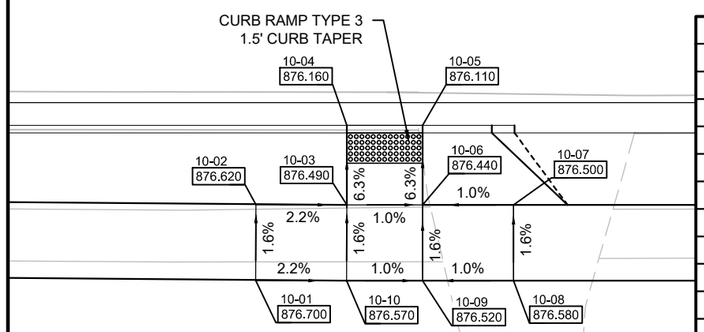


12			
POINT NUMBER	STATION	OFFSET	ELEVATION
12-01	120+92.36	-28.500	874.850
12-02	121+04.18	-28.500	874.970
12-03	121+10.18	-28.500	875.070
12-04	121+10.18	-23.500	875.000
12-05	121+04.18	-23.500	874.870
12-06	120+98.90	-23.500	874.770

STH 47

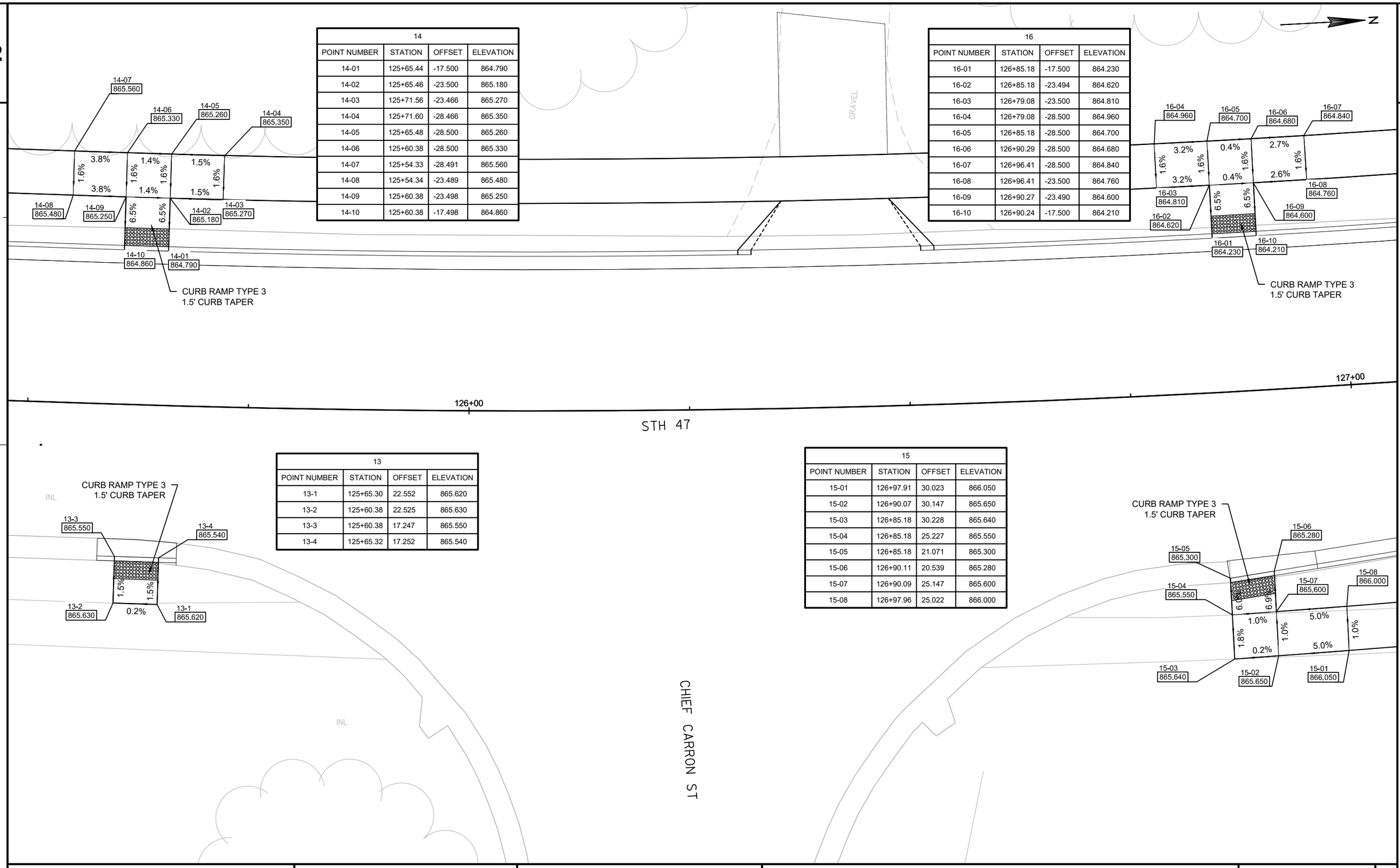
120+00

121+00



10			
POINT NUMBER	STATION	OFFSET	ELEVATION
10-01	119+98.41	27.725	876.700
10-02	119+98.43	22.725	876.620
10-03	120+04.43	22.750	876.490
10-04	120+04.43	17.500	876.160
10-05	120+09.43	17.500	876.110
10-06	120+09.43	22.750	876.440
10-07	120+15.43	22.750	876.500
10-08	120+15.43	27.750	876.580
10-09	120+09.43	27.750	876.520
10-10	120+04.41	27.750	876.570

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CURB RAMP DETAILS	SHEET 47	E



14			
POINT NUMBER	STATION	OFFSET	ELEVATION
14-01	125+65.44	-17.500	864.790
14-02	125+65.46	-23.500	865.180
14-03	125+71.56	-23.466	865.270
14-04	125+71.60	-28.466	865.350
14-05	125+65.48	-28.500	865.260
14-06	125+60.38	-28.500	865.330
14-07	125+54.33	-28.491	865.560
14-08	125+54.34	-23.489	865.480
14-09	125+60.38	-23.498	865.250
14-10	125+60.38	-17.498	864.860

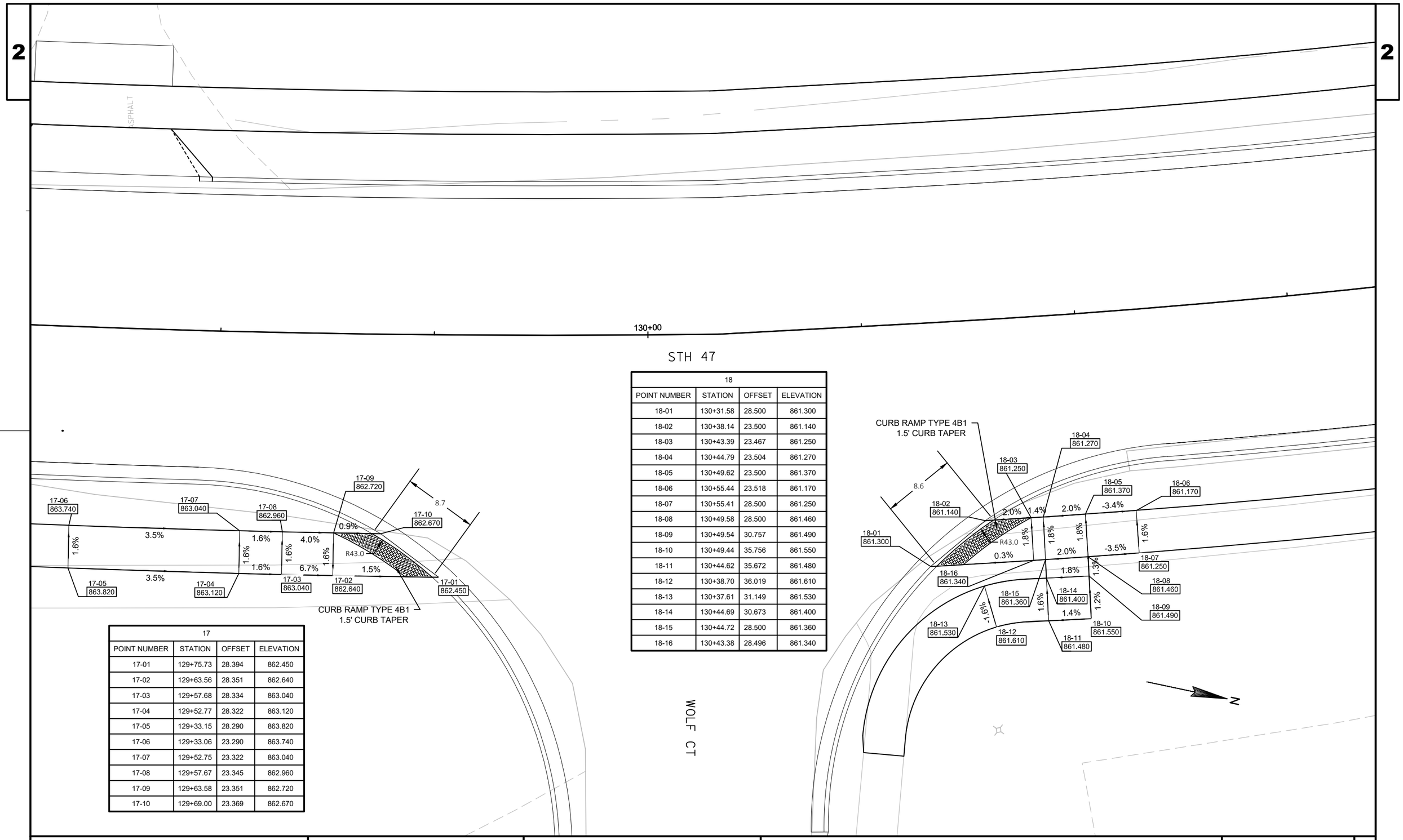
16			
POINT NUMBER	STATION	OFFSET	ELEVATION
16-01	126+85.18	-17.500	864.230
16-02	126+85.18	-23.494	864.620
16-03	126+79.08	-23.500	864.810
16-04	126+79.08	-28.500	864.960
16-05	126+85.18	-28.500	864.700
16-06	126+90.29	-28.500	864.680
16-07	126+96.41	-28.500	864.840
16-08	126+96.41	-23.500	864.760
16-09	126+90.27	-23.490	864.600
16-10	126+90.24	-17.500	864.210

13			
POINT NUMBER	STATION	OFFSET	ELEVATION
13-1	125+65.30	22.552	865.620
13-2	125+60.38	22.525	865.630
13-3	125+60.38	17.247	865.550
13-4	125+65.32	17.252	865.540

15			
POINT NUMBER	STATION	OFFSET	ELEVATION
15-01	126+97.91	30.023	866.050
15-02	126+90.07	30.147	865.650
15-03	126+85.18	30.228	865.640
15-04	126+85.18	25.227	865.550
15-05	126+85.18	21.071	865.300
15-06	126+90.11	20.539	865.280
15-07	126+90.09	25.147	865.600
15-08	126+97.96	25.022	866.000

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CURB RAMP DETAILS	SHEET	E

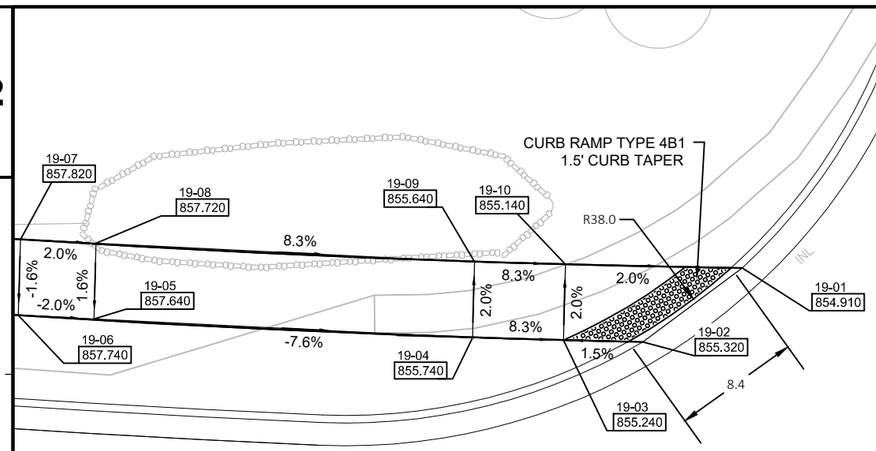
FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0211_ID_CR.DWG PLOT DATE : 1/27/2020 2:57 PM PLOT BY : DAY, JOHN PLOT NAME :
WISDOT/CADDS SHEET 42



17			
POINT NUMBER	STATION	OFFSET	ELEVATION
17-01	129+75.73	28.394	862.450
17-02	129+63.56	28.351	862.640
17-03	129+57.68	28.334	863.040
17-04	129+52.77	28.322	863.120
17-05	129+33.15	28.290	863.820
17-06	129+33.06	23.290	863.740
17-07	129+52.75	23.322	863.040
17-08	129+57.67	23.345	862.960
17-09	129+63.58	23.351	862.720
17-10	129+69.00	23.369	862.670

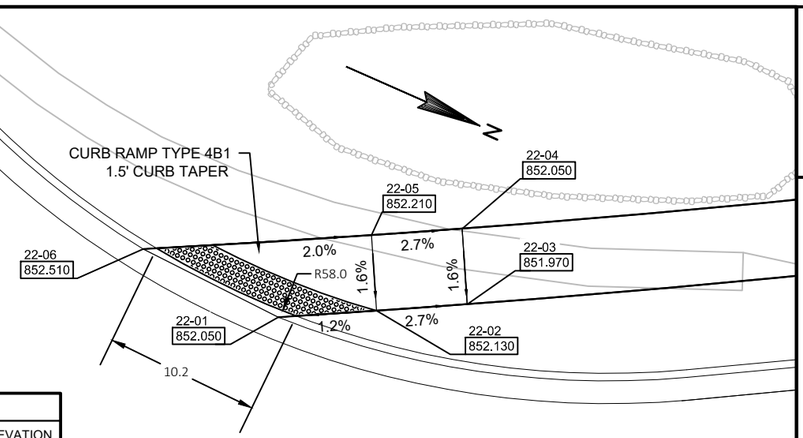
18			
POINT NUMBER	STATION	OFFSET	ELEVATION
18-01	130+31.58	28.500	861.300
18-02	130+38.14	23.500	861.140
18-03	130+43.39	23.467	861.250
18-04	130+44.79	23.504	861.270
18-05	130+49.62	23.500	861.370
18-06	130+55.44	23.518	861.170
18-07	130+55.41	28.500	861.250
18-08	130+49.58	28.500	861.460
18-09	130+49.54	30.757	861.490
18-10	130+49.44	35.756	861.550
18-11	130+44.62	35.672	861.480
18-12	130+38.70	36.019	861.610
18-13	130+37.61	31.149	861.530
18-14	130+44.69	30.673	861.400
18-15	130+44.72	28.500	861.360
18-16	130+43.38	28.496	861.340

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CURB RAMP DETAILS	SHEET	E



19			
POINT NUMBER	STATION	OFFSET	ELEVATION
19-01	131+72.34	-28.500	854.910
19-02	131+65.70	-23.500	855.320
19-03	131+60.33	-23.500	855.240
19-04	131+54.18	-23.482	855.740
19-05	131+28.58	-23.561	857.640
19-06	131+23.45	-23.500	857.740
19-07	131+23.27	-28.500	857.820
19-08	131+28.41	-28.561	857.720
19-09	131+54.15	-28.481	855.640
19-10	131+60.33	-28.500	855.140

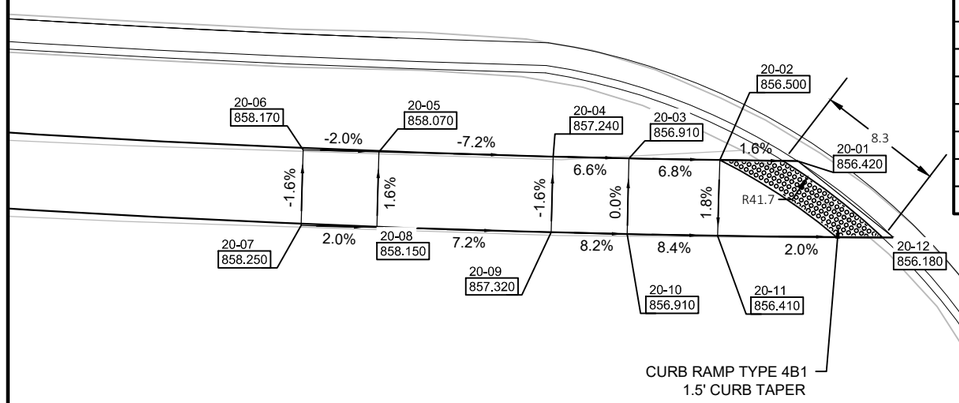
BROOKS LN



22			
POINT NUMBER	STATION	OFFSET	ELEVATION
22-01	132+49.43	-23.500	852.050
22-02	132+56.09	-23.500	852.130
22-03	132+62.23	-23.500	851.970
22-04	132+62.26	-28.481	852.050
22-05	132+56.09	-28.500	852.210
22-06	132+40.56	-28.500	852.510

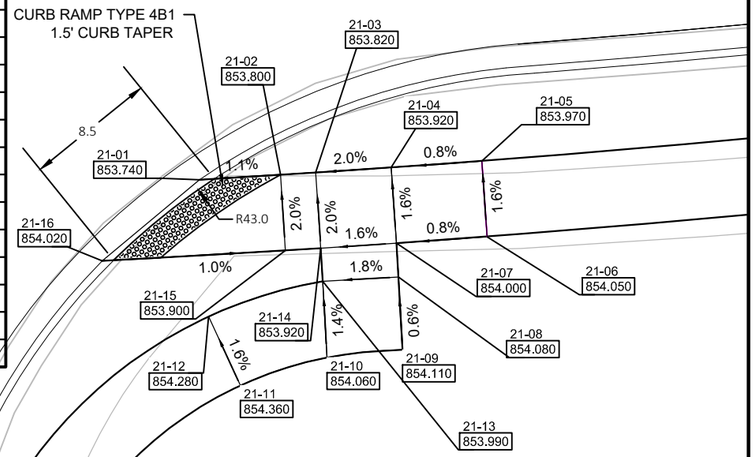
STH 47

132+00



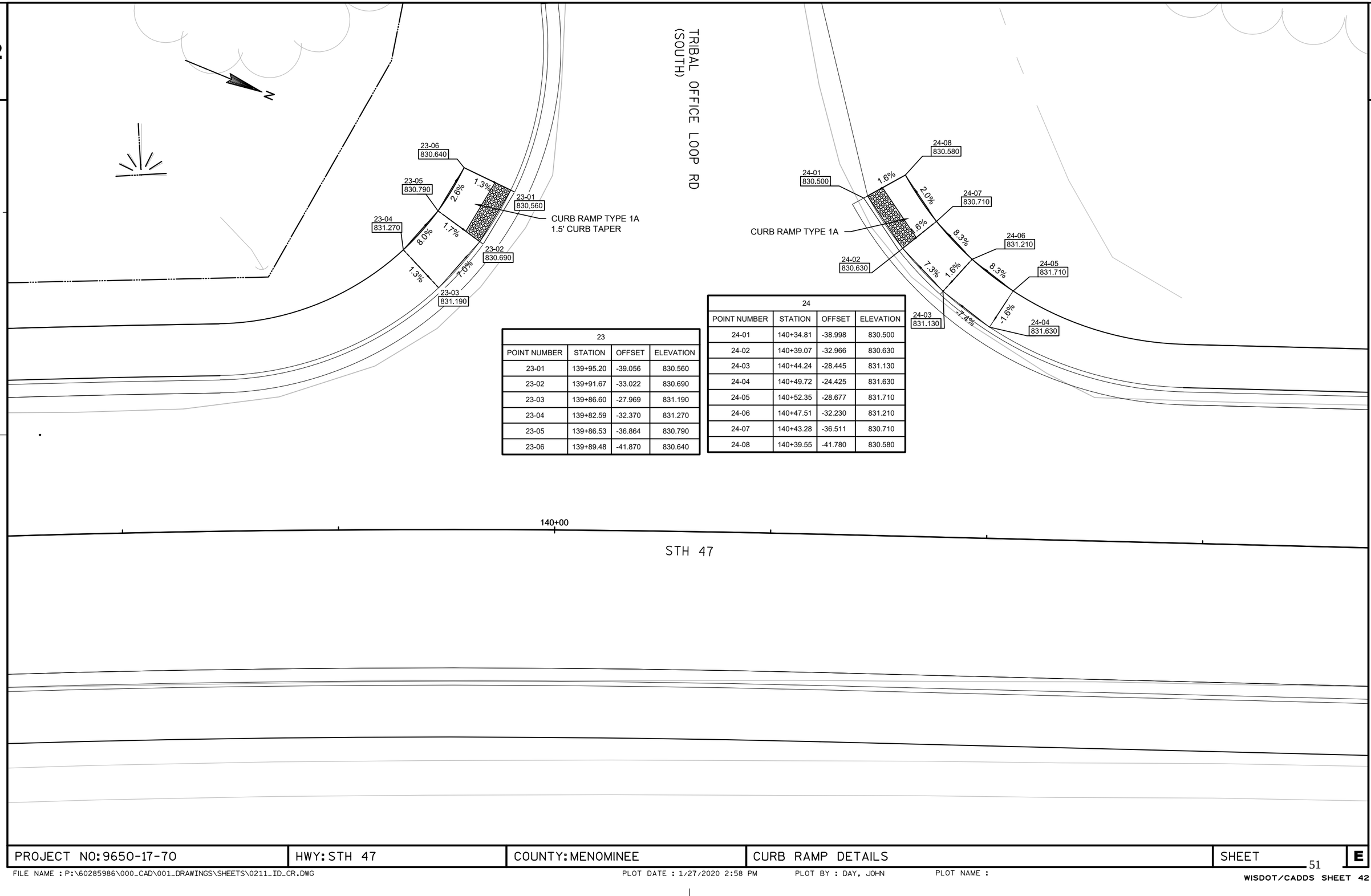
20			
POINT NUMBER	STATION	OFFSET	ELEVATION
20-01	131+77.00	23.500	856.420
20-02	131+71.98	23.500	856.500
20-03	131+66.12	23.500	856.910
20-04	131+61.24	23.486	857.240
20-05	131+50.00	23.554	858.070
20-06	131+45.12	23.618	858.170
20-07	131+45.19	28.617	858.250
20-08	131+50.05	28.547	858.150
20-09	131+61.23	28.486	857.320
20-10	131+66.12	28.500	856.910
20-11	131+71.93	28.500	856.410
20-12	131+83.22	28.500	856.180

OUR CHILDREN'S RD



21			
POINT NUMBER	STATION	OFFSET	ELEVATION
21-01	132+44.59	23.500	853.740
21-02	132+49.83	23.500	853.800
21-03	132+52.10	23.500	853.820
21-04	132+56.98	23.500	853.920
21-05	132+62.84	23.518	853.970
21-06	132+62.81	28.518	854.050
21-07	132+56.98	28.500	854.000
21-08	132+56.95	30.733	854.080
21-09	132+56.90	35.549	854.110
21-10	132+52.07	35.724	854.060
21-11	132+46.45	37.211	854.360
21-12	132+44.68	32.550	854.280
21-13	132+52.10	30.686	853.990
21-14	132+52.11	28.500	853.920
21-15	132+49.83	28.500	853.900
21-16	132+38.07	28.500	854.020

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CURB RAMP DETAILS	SHEET 50	E



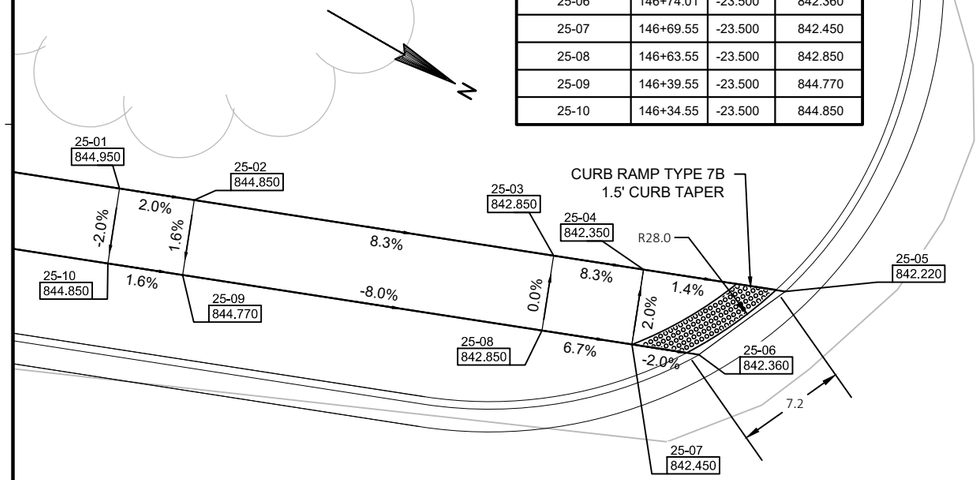
23			
POINT NUMBER	STATION	OFFSET	ELEVATION
23-01	139+95.20	-39.056	830.560
23-02	139+91.67	-33.022	830.690
23-03	139+86.60	-27.969	831.190
23-04	139+82.59	-32.370	831.270
23-05	139+86.53	-36.864	830.790
23-06	139+89.48	-41.870	830.640

24			
POINT NUMBER	STATION	OFFSET	ELEVATION
24-01	140+34.81	-38.998	830.500
24-02	140+39.07	-32.966	830.630
24-03	140+44.24	-28.445	831.130
24-04	140+49.72	-24.425	831.630
24-05	140+52.35	-28.677	831.710
24-06	140+47.51	-32.230	831.210
24-07	140+43.28	-36.511	830.710
24-08	140+39.55	-41.780	830.580

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CURB RAMP DETAILS	SHEET	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0211_ID_CR.DWG PLOT DATE : 1/27/2020 2:58 PM PLOT BY : DAY, JOHN PLOT NAME :
WISDOT/CADDS SHEET 42

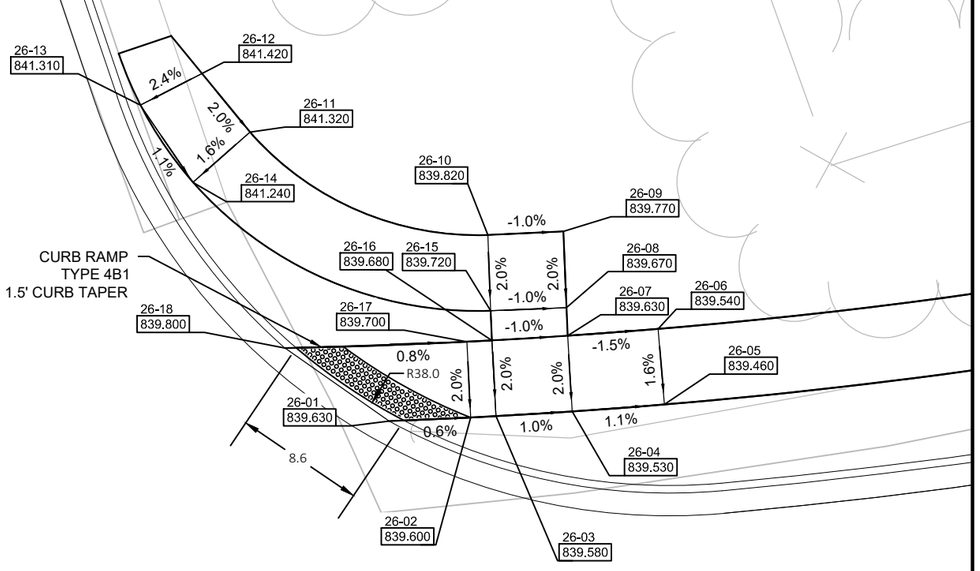
25			
POINT NUMBER	STATION	OFFSET	ELEVATION
25-01	146+34.55	-28.500	844.950
25-02	146+39.55	-28.500	844.850
25-03	146+63.55	-28.500	842.850
25-04	146+69.55	-28.500	842.350
25-05	146+79.34	-28.475	842.220
25-06	146+74.01	-23.500	842.360
25-07	146+69.55	-23.500	842.450
25-08	146+63.55	-23.500	842.850
25-09	146+39.55	-23.500	844.770
25-10	146+34.55	-23.500	844.850

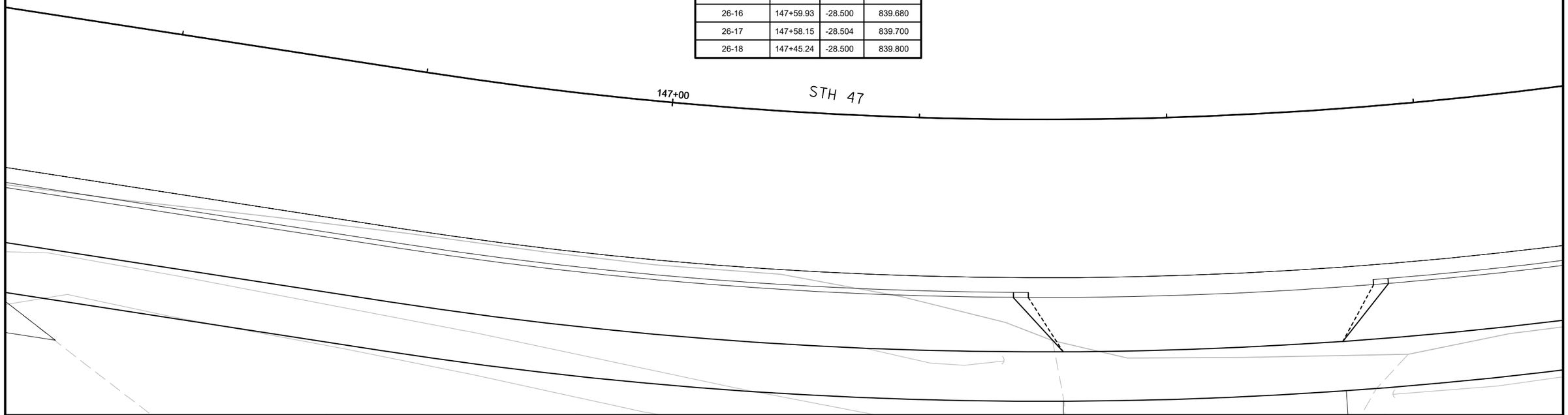


TRIBAL OFFICE LOOP RD (NORTH)

ASPHALT

26			
POINT NUMBER	STATION	OFFSET	ELEVATION
26-01	147+52.43	-23.500	839.630
26-02	147+58.15	-23.500	839.600
26-03	147+59.93	-23.500	839.580
26-04	147+65.27	-23.500	839.530
26-05	147+71.75	-23.500	839.460
26-06	147+71.75	-28.500	839.540
26-07	147+65.31	-28.500	839.630
26-08	147+65.36	-30.355	839.670
26-09	147+65.52	-35.400	839.770
26-10	147+60.05	-35.467	839.820
26-11	147+42.97	-42.784	841.320
26-12	147+39.45	-46.679	841.420
26-13	147+34.88	-44.588	841.310
26-14	147+38.76	-39.502	841.240
26-15	147+59.96	-30.467	839.720
26-16	147+59.93	-28.500	839.680
26-17	147+58.15	-28.504	839.700
26-18	147+45.24	-28.500	839.800

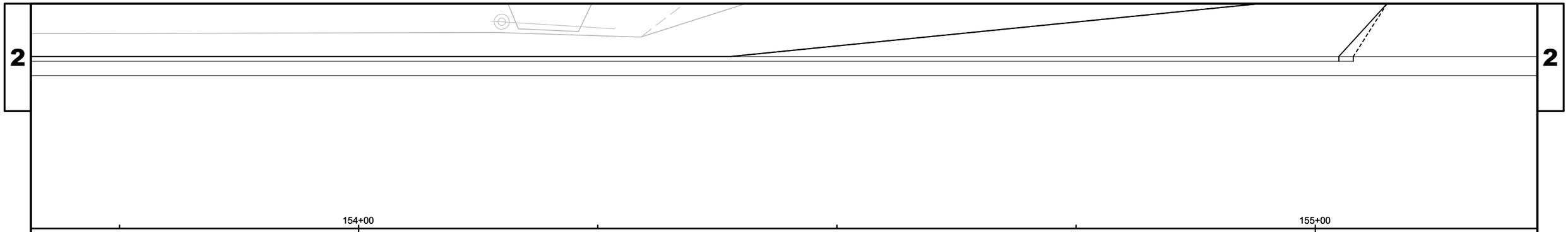




PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CURB RAMP DETAILS	SHEET	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0211_ID_CR.DWG PLOT DATE : 1/27/2020 2:58 PM PLOT BY : DAY, JOHN PLOT NAME :

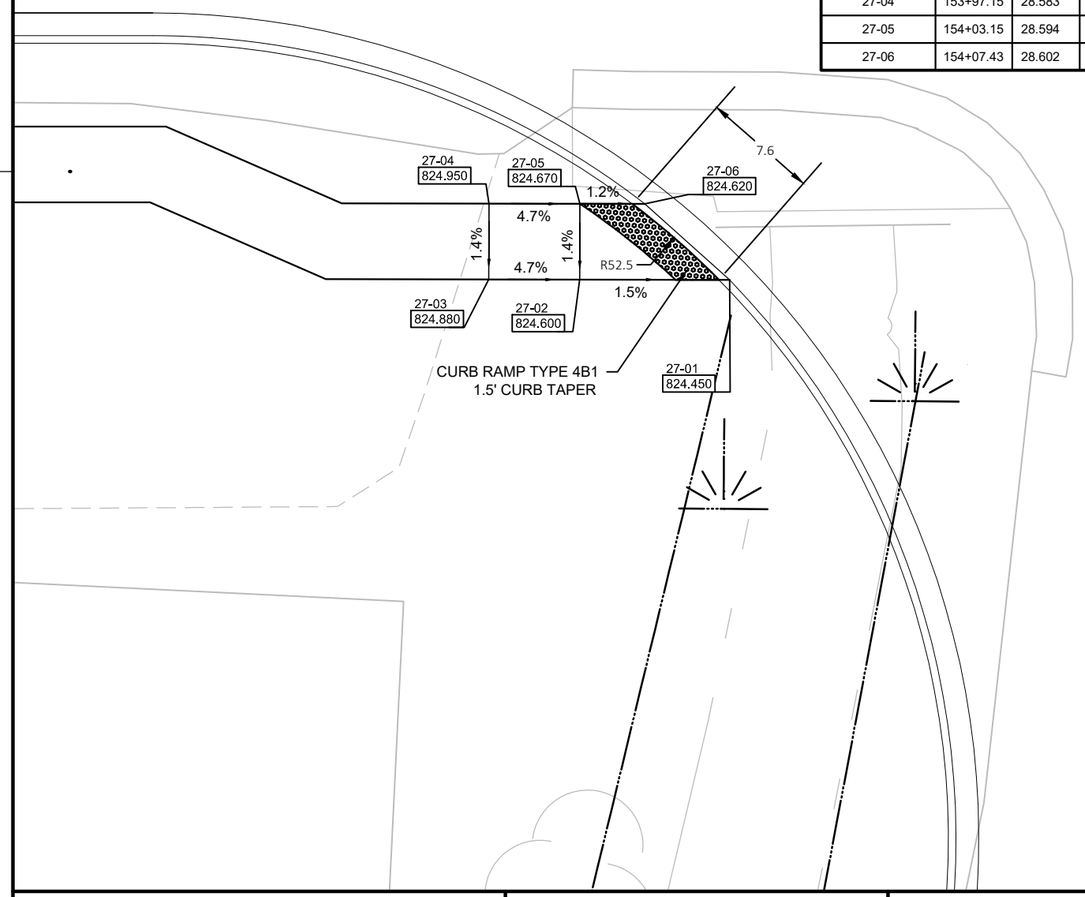
WISDOT/CADDS SHEET 42

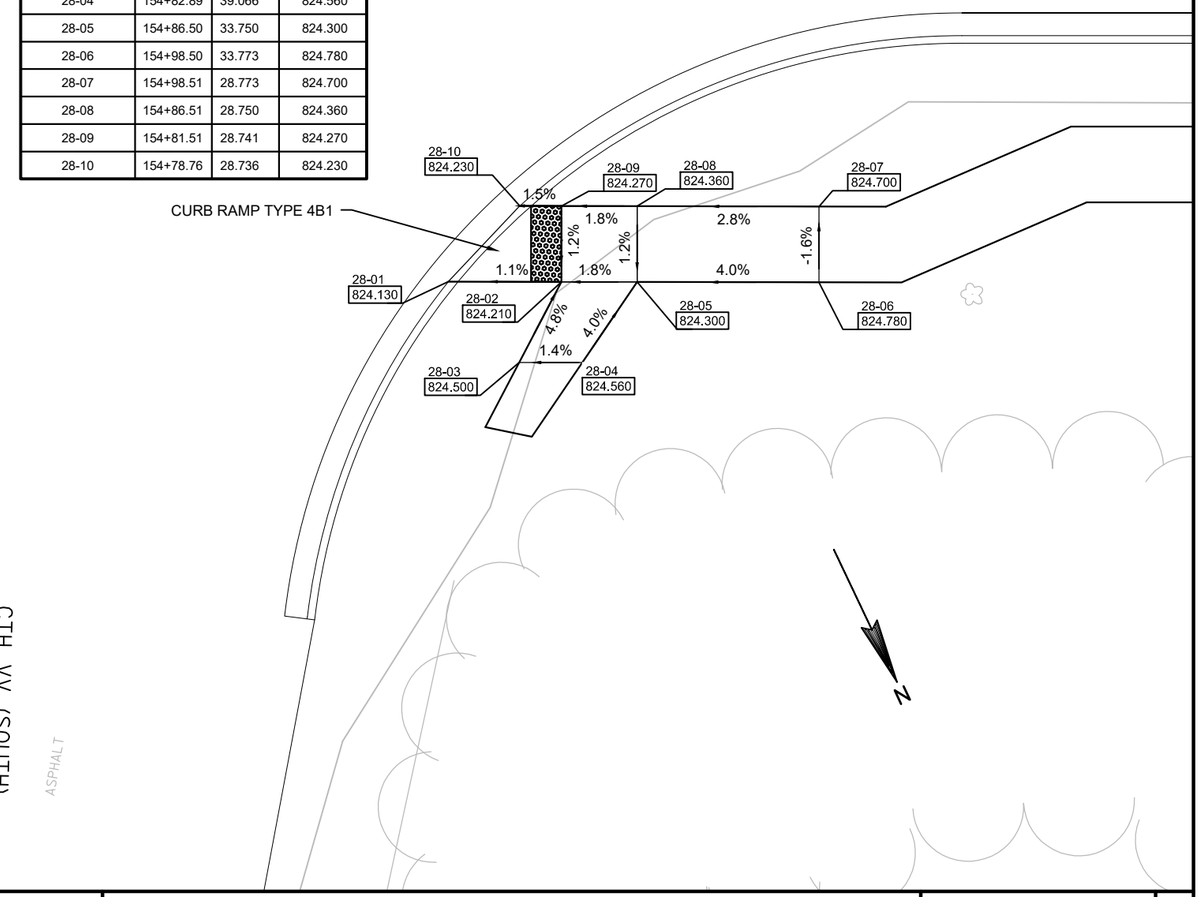


STH 47

27			
POINT NUMBER	STATION	OFFSET	ELEVATION
27-01	154+13.03	33.613	824.450
27-02	154+03.14	33.594	824.600
27-03	153+97.14	33.583	824.880
27-04	153+97.15	28.583	824.950
27-05	154+03.15	28.594	824.670
27-06	154+07.43	28.602	824.620

28			
POINT NUMBER	STATION	OFFSET	ELEVATION
28-01	154+74.05	33.727	824.130
28-02	154+81.50	33.741	824.210
28-03	154+78.72	39.058	824.500
28-04	154+82.89	39.066	824.560
28-05	154+86.50	33.750	824.300
28-06	154+98.50	33.773	824.780
28-07	154+98.51	28.773	824.700
28-08	154+86.51	28.750	824.360
28-09	154+81.51	28.741	824.270
28-10	154+78.76	28.736	824.230





CTH VV (SOUTH)

ASPHALT

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CURB RAMP DETAILS	SHEET	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0211_ID_CR.DWG PLOT DATE : 1/27/2020 2:58 PM PLOT BY : DAY, JOHN PLOT NAME :

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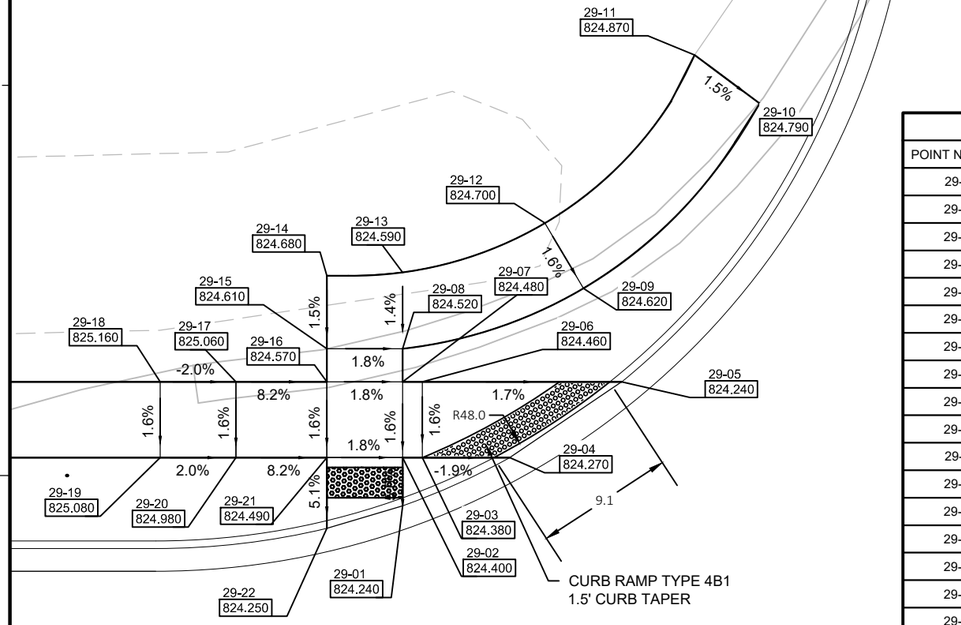
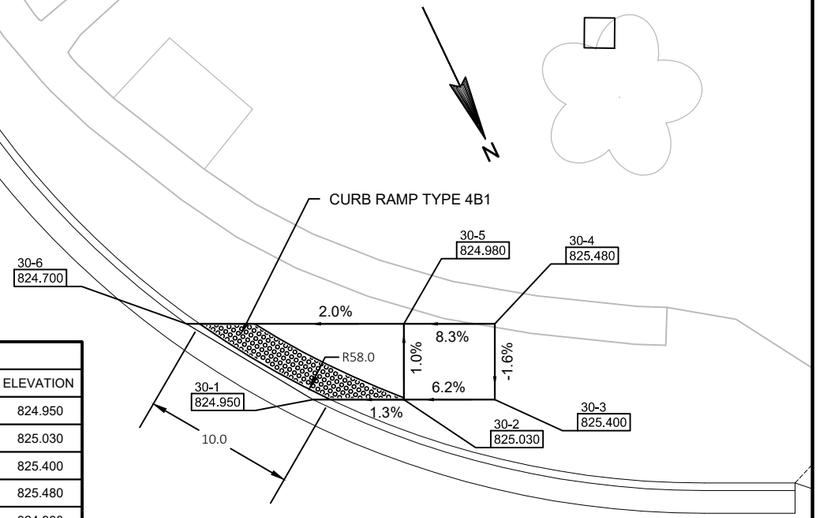




FAIRGROUNDS RD

ASPHALT

29			
POINT NUMBER	STATION	OFFSET	ELEVATION
29-01	156+38.97	-20.325	824.240
29-02	156+38.97	-23.500	824.400
29-03	156+40.26	-23.500	824.380
29-04	156+46.02	-23.500	824.270
29-05	156+53.41	-28.500	824.240
29-06	156+40.26	-28.500	824.460
29-07	156+38.97	-28.500	824.480
29-08	156+38.97	-30.686	824.520
29-09	156+50.89	-34.671	824.620
29-10	156+62.52	-46.860	824.790
29-11	156+58.22	-50.072	824.870
29-12	156+48.35	-38.976	824.700
29-13	156+38.97	-35.723	824.590
29-14	156+33.97	-35.501	824.680
29-15	156+33.97	-30.686	824.610
29-16	156+33.97	-28.500	824.570
29-17	156+27.97	-28.500	825.060
29-18	156+22.97	-28.500	825.160
29-19	156+22.97	-23.500	825.080
29-20	156+27.97	-23.500	824.980
29-21	156+33.97	-23.500	824.490
29-22	156+33.97	-18.837	824.250

30			
POINT NUMBER	STATION	OFFSET	ELEVATION
30-1	157+37.56	-23.500	824.950
30-2	157+43.56	-23.500	825.030
30-3	157+49.56	-23.500	825.400
30-4	157+49.56	-28.500	825.480
30-5	157+43.56	-28.500	824.980
30-6	157+29.22	-28.500	824.700

157+00

STH 47

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CURB RAMP DETAILS	SHEET	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0211_ID_CR.DWG PLOT DATE : 1/27/2020 2:58 PM PLOT BY : DAY, JOHN PLOT NAME :

WISDOT/CADDS SHEET 42

2

LYONS RD

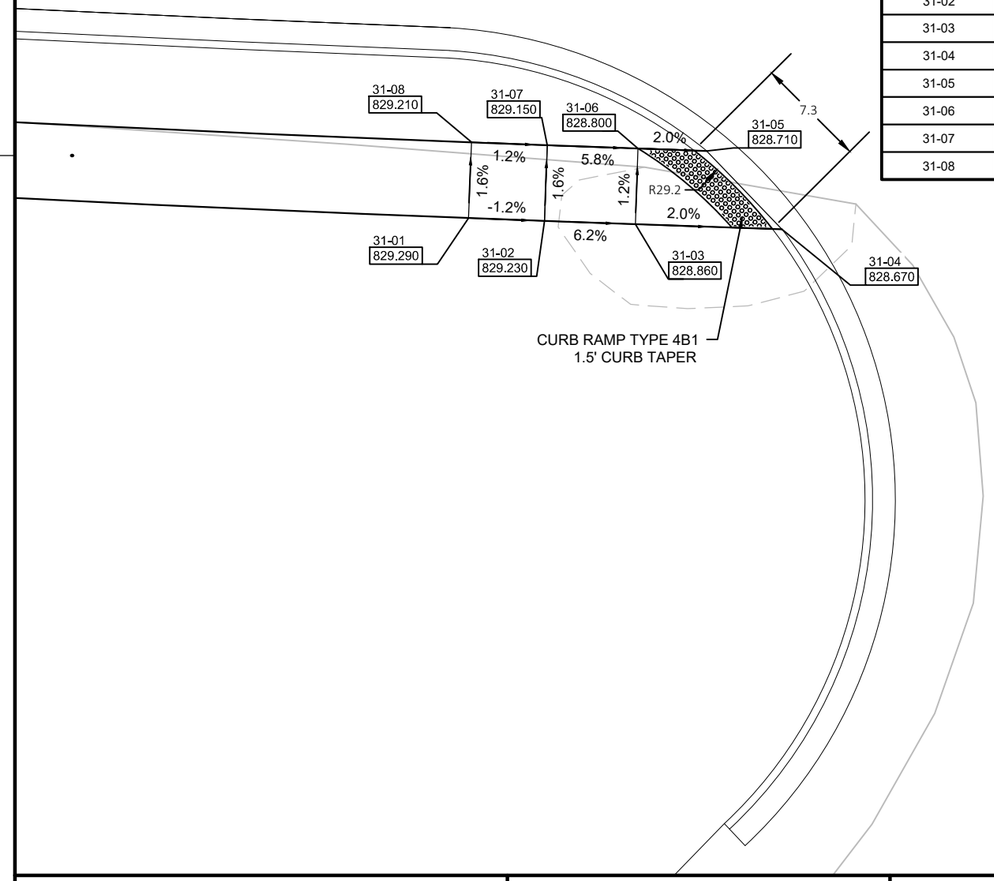
164+00

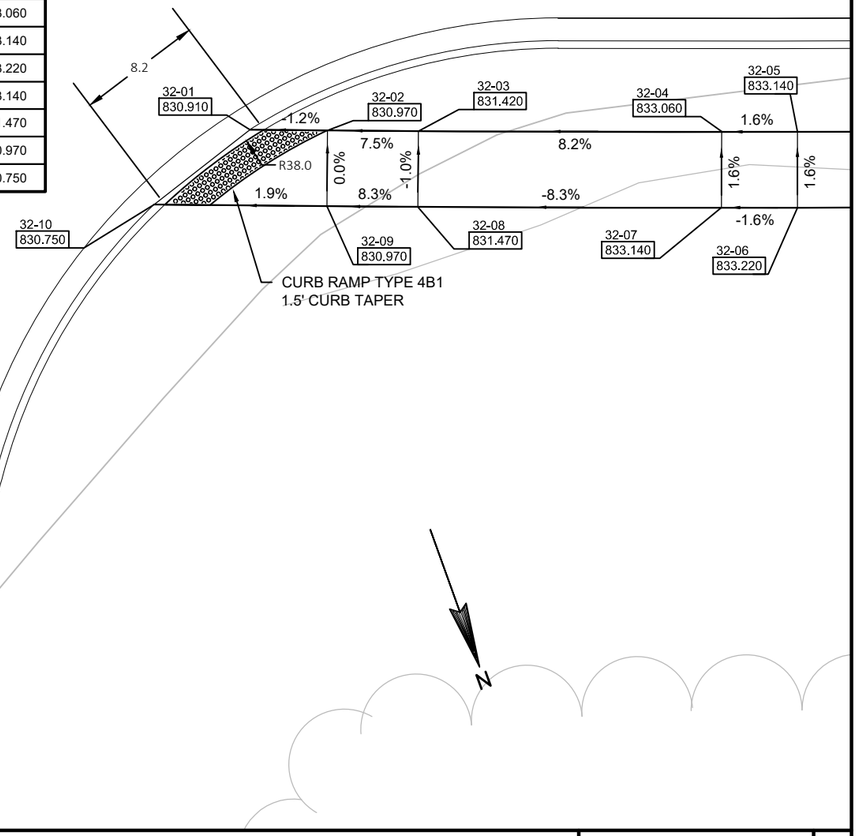
165+00

STH 47

31			
POINT NUMBER	STATION	OFFSET	ELEVATION
31-01	164+20.77	28.500	829.290
31-02	164+25.74	28.500	829.230
31-03	164+31.68	28.500	828.860
31-04	164+41.28	28.500	828.670
31-05	164+36.18	23.500	828.710
31-06	164+31.69	23.500	828.800
31-07	164+25.73	23.506	829.150
31-08	164+20.77	23.480	829.210

32			
POINT NUMBER	STATION	OFFSET	ELEVATION
32-01	165+07.77	23.500	830.910
32-02	165+12.86	23.500	830.970
32-03	165+18.82	23.506	831.420
32-04	165+38.66	23.473	833.060
32-05	165+43.62	23.486	833.140
32-06	165+43.62	28.500	833.220
32-07	165+38.65	28.485	833.140
32-08	165+18.81	28.506	831.470
32-09	165+12.86	28.500	830.970
32-10	165+01.57	28.500	830.750





BLACKSMITH RD

ASPHALT

N

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CURB RAMP DETAILS	SHEET	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0211_ID_CR.DWG PLOT DATE : 1/27/2020 2:58 PM PLOT BY : DAY, JOHN PLOT NAME :

2

2

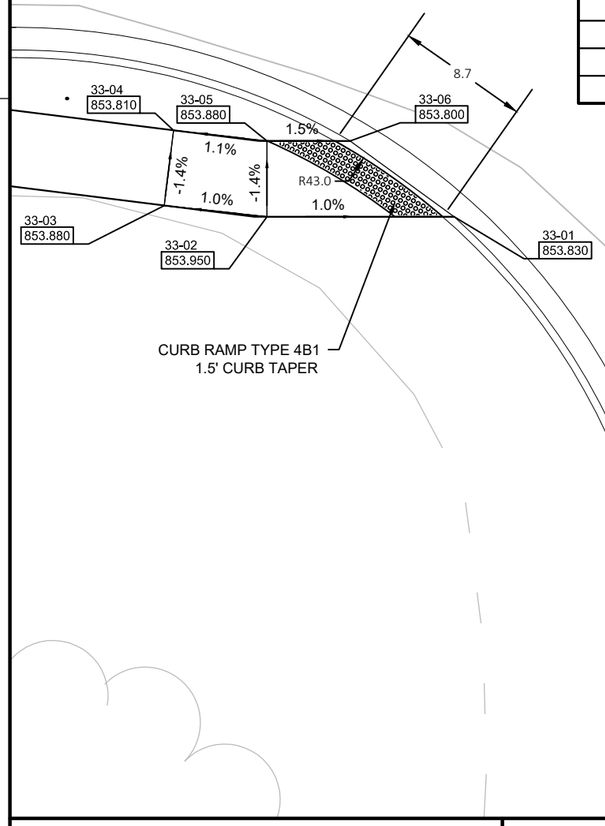
171+00

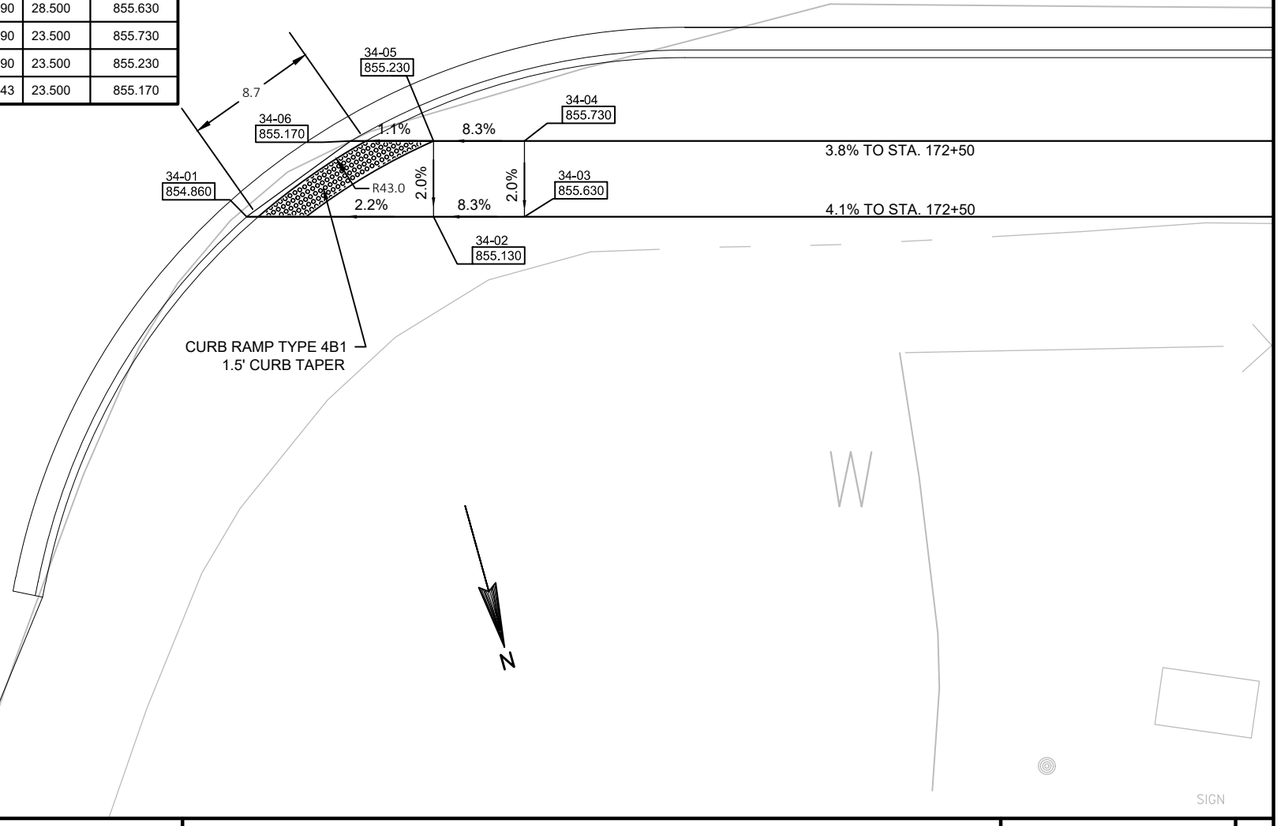
172+00

STH 47

33			
POINT NUMBER	STATION	OFFSET	ELEVATION
33-01	171+25.15	28.500	853.830
33-02	171+12.81	28.500	853.950
33-03	171+06.02	27.756	853.880
33-04	171+06.64	22.794	853.810
33-05	171+12.81	23.500	853.880
33-06	171+18.28	23.500	853.800

34			
POINT NUMBER	STATION	OFFSET	ELEVATION
34-01	171+85.56	28.500	854.860
34-02	171+97.90	28.500	855.130
34-03	172+03.90	28.500	855.630
34-04	172+03.90	23.500	855.730
34-05	171+97.90	23.500	855.230
34-06	171+92.43	23.500	855.170

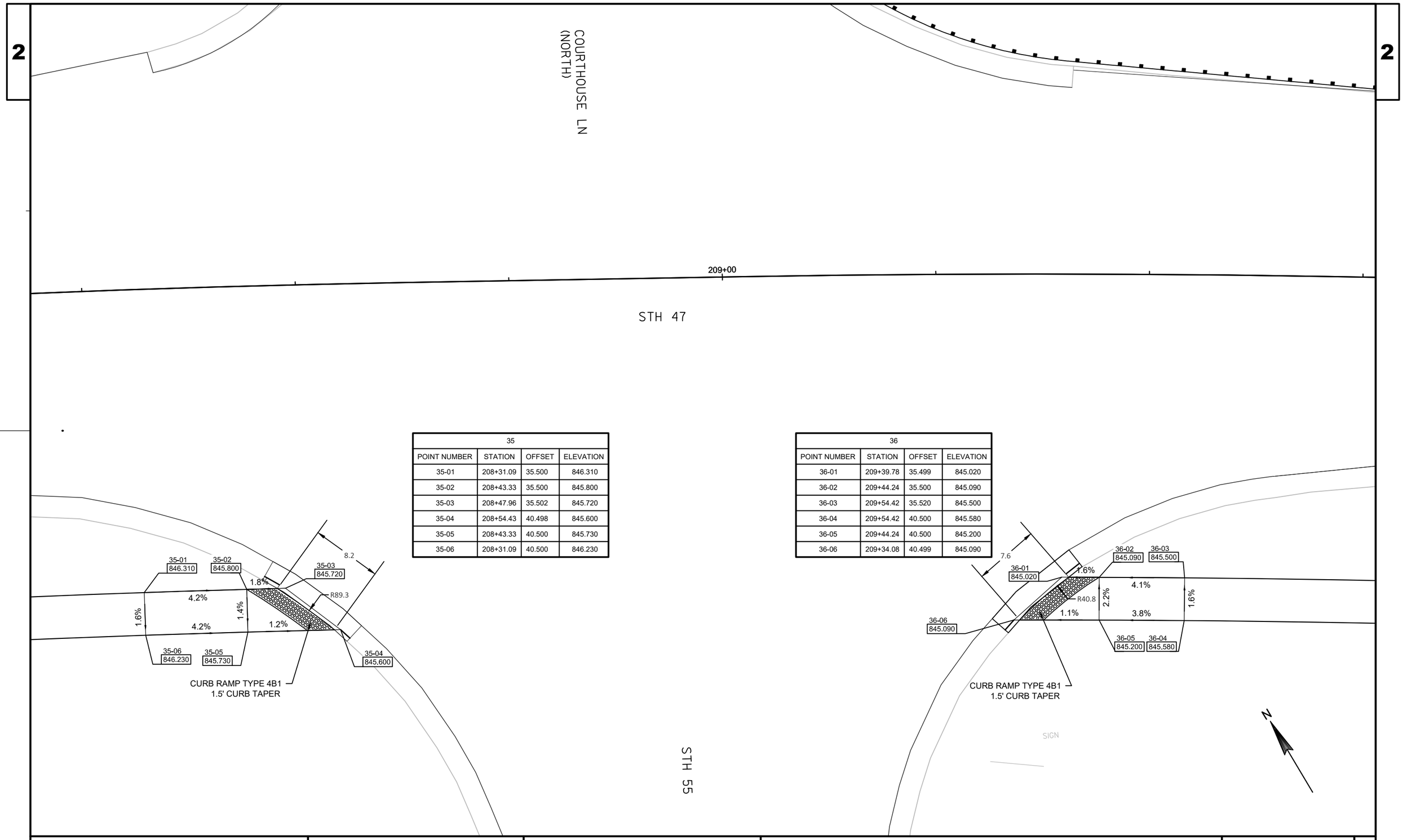




PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CURB RAMP DETAILS	SHEET	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0211_ID_CR.DWG PLOT DATE : 1/27/2020 2:58 PM PLOT BY : DAY, JOHN PLOT NAME :

WISDOT/CADDS SHEET 42



35			
POINT NUMBER	STATION	OFFSET	ELEVATION
35-01	208+31.09	35.500	846.310
35-02	208+43.33	35.500	845.800
35-03	208+47.96	35.502	845.720
35-04	208+54.43	40.498	845.600
35-05	208+43.33	40.500	845.730
35-06	208+31.09	40.500	846.230

36			
POINT NUMBER	STATION	OFFSET	ELEVATION
36-01	209+39.78	35.499	845.020
36-02	209+44.24	35.500	845.090
36-03	209+54.42	35.520	845.500
36-04	209+54.42	40.500	845.580
36-05	209+44.24	40.500	845.200
36-06	209+34.08	40.499	845.090

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CURB RAMP DETAILS	SHEET	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0211_ID_CR.DWG PLOT DATE : 1/27/2020 2:59 PM PLOT BY : DAY, JOHN PLOT NAME :
WISDOT/CADDS SHEET 42

2

2

N

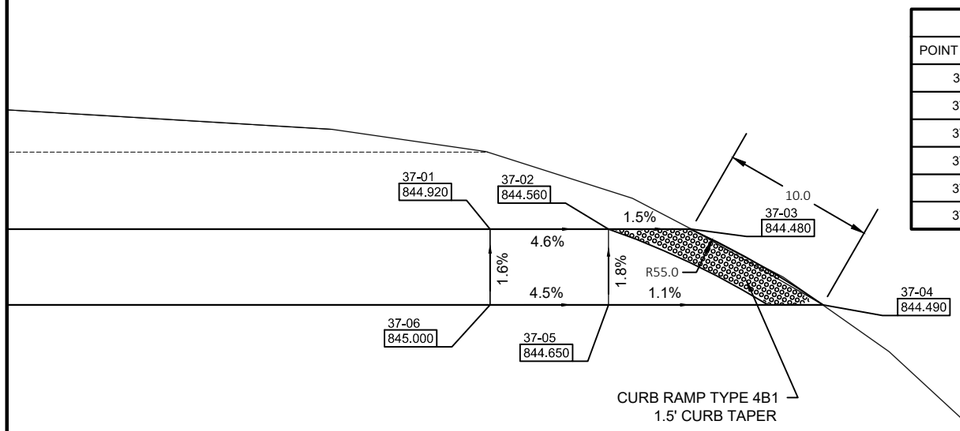
CTH VV

STH 47

220+00

221+00

37			
POINT NUMBER	STATION	OFFSET	ELEVATION
37-01	219+92.06	25.087	844.920
37-02	219+99.87	25.087	844.560
37-03	220+05.34	25.087	844.480
37-04	220+14.03	30.087	844.490
37-05	219+99.87	30.087	844.650
37-06	219+92.06	30.087	845.000

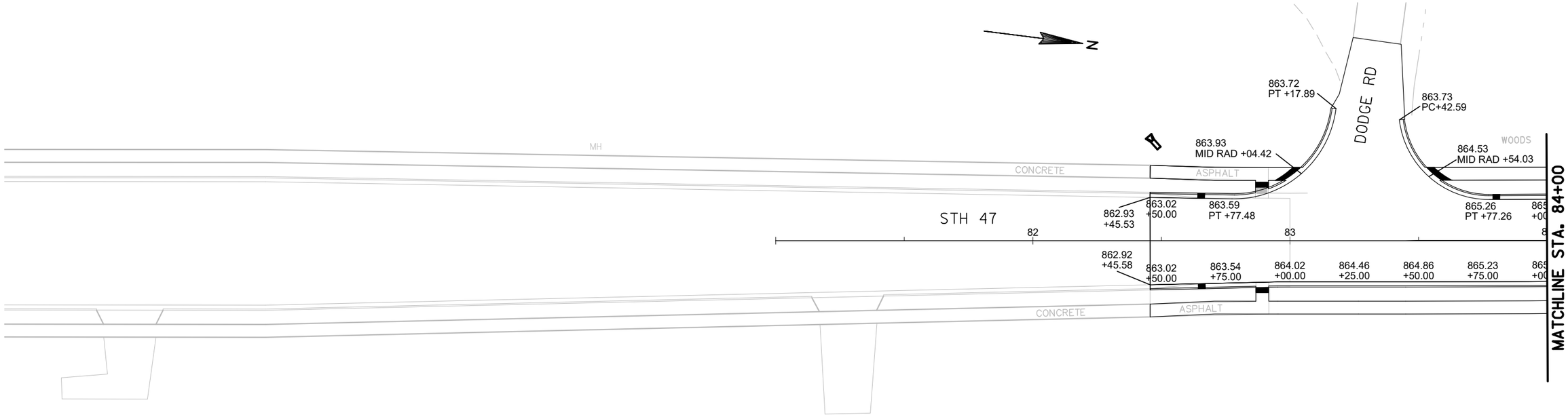


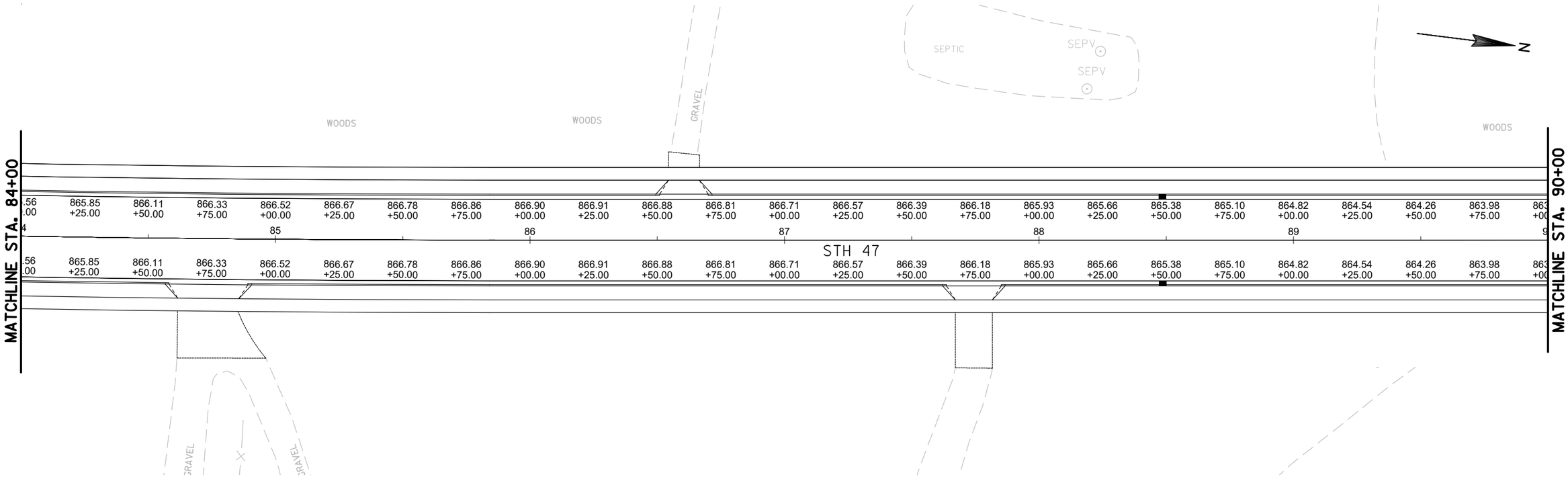
OSHKOSH RD

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CURB RAMP DETAILS	SHEET	E

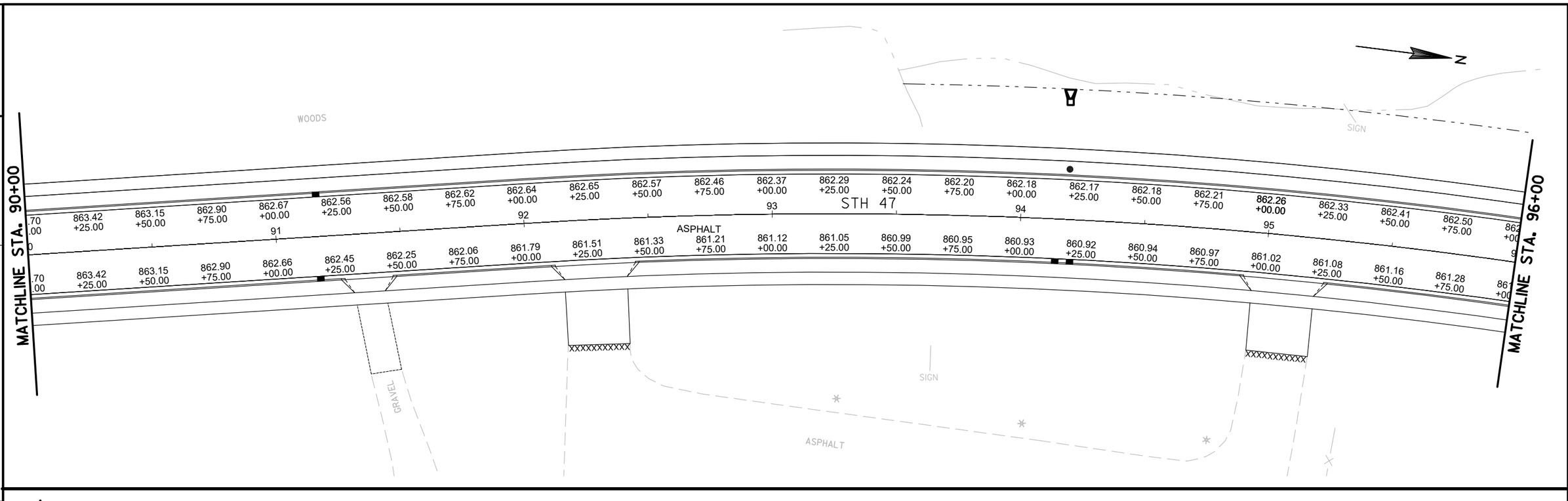
FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0211_ID_CR.DWG PLOT DATE : 1/27/2020 2:59 PM PLOT BY : DAY, JOHN PLOT NAME :

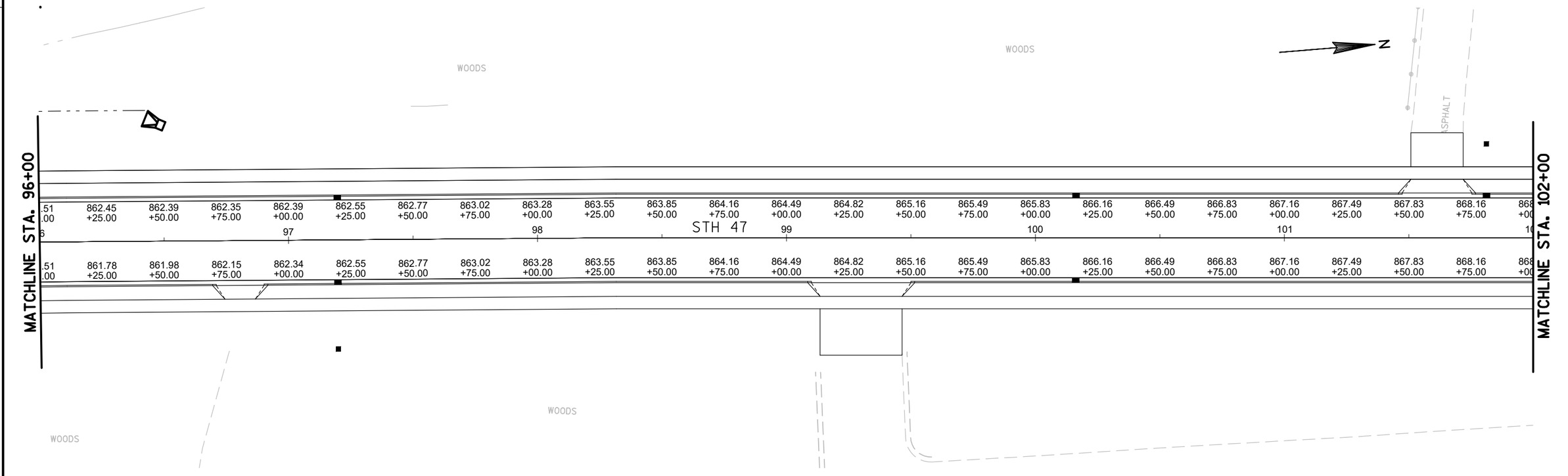
WISDOT/CADDS SHEET 42



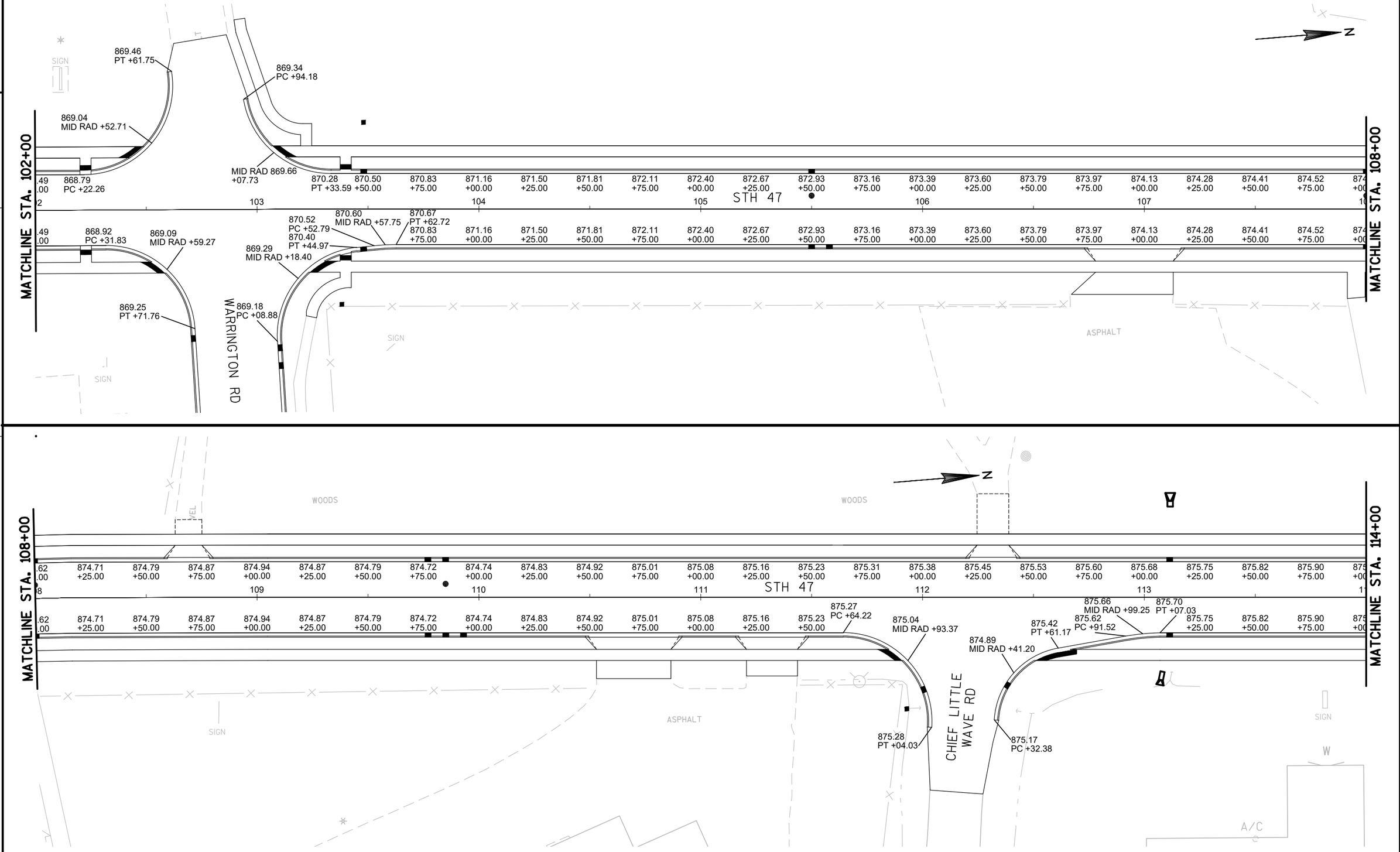


PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PAVING GRADES	SHEET 59	E

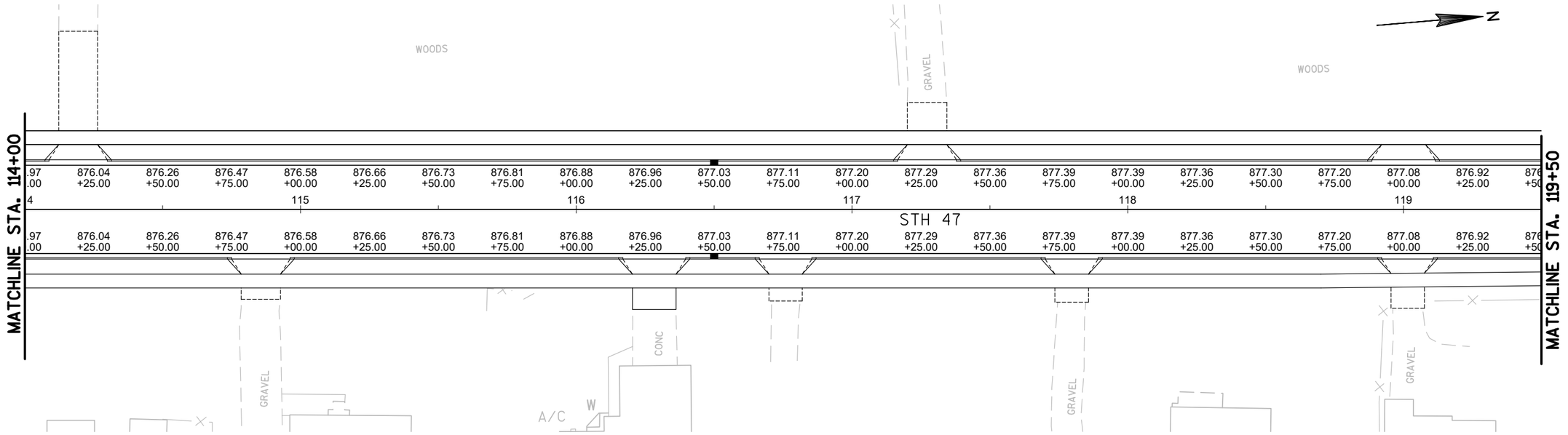


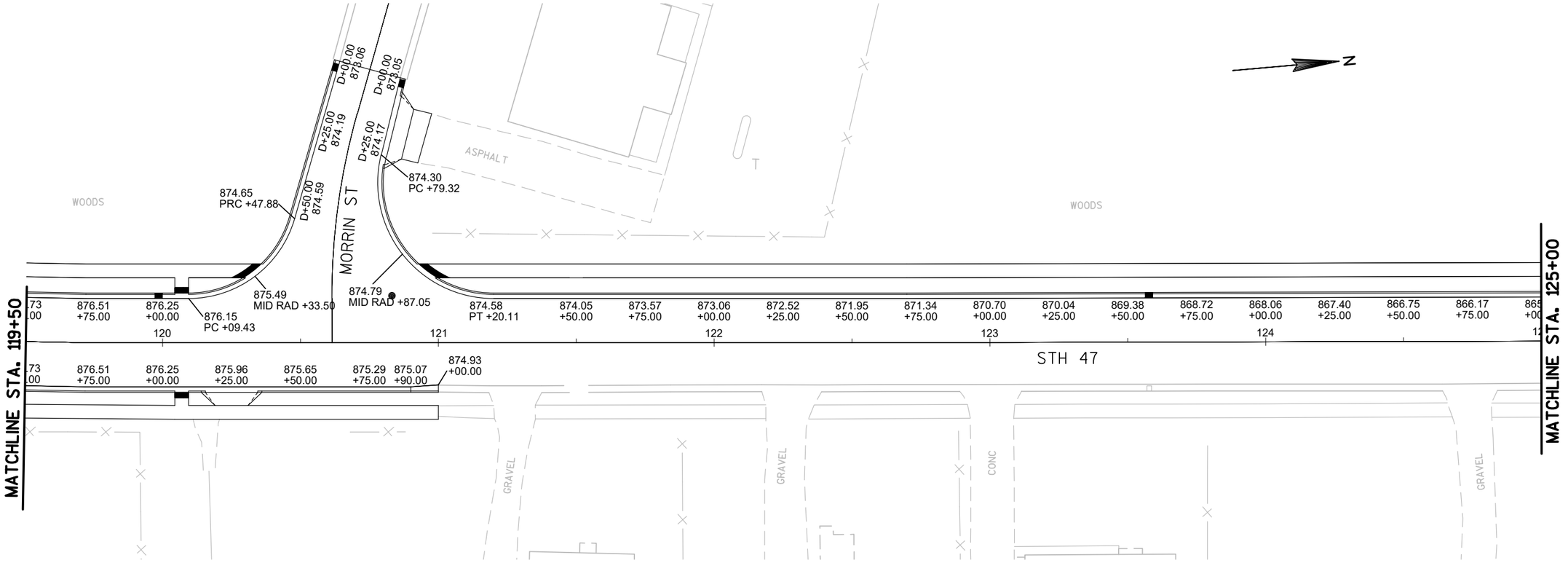


PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PAVING GRADES	SHEET 60	E



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PAVING GRADES	SHEET 61	E





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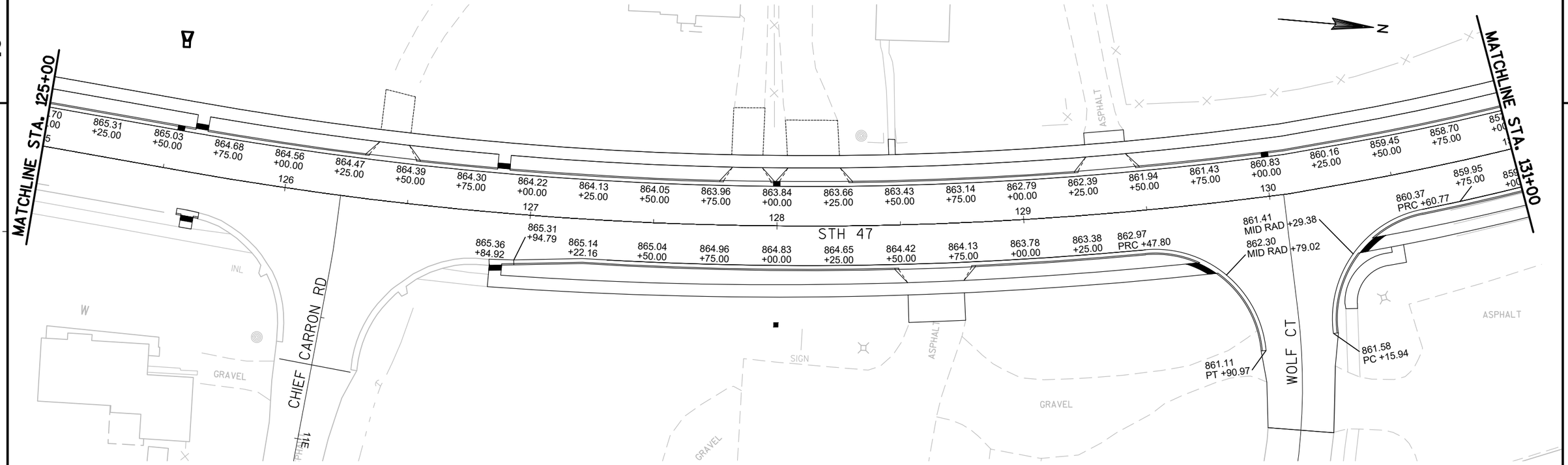
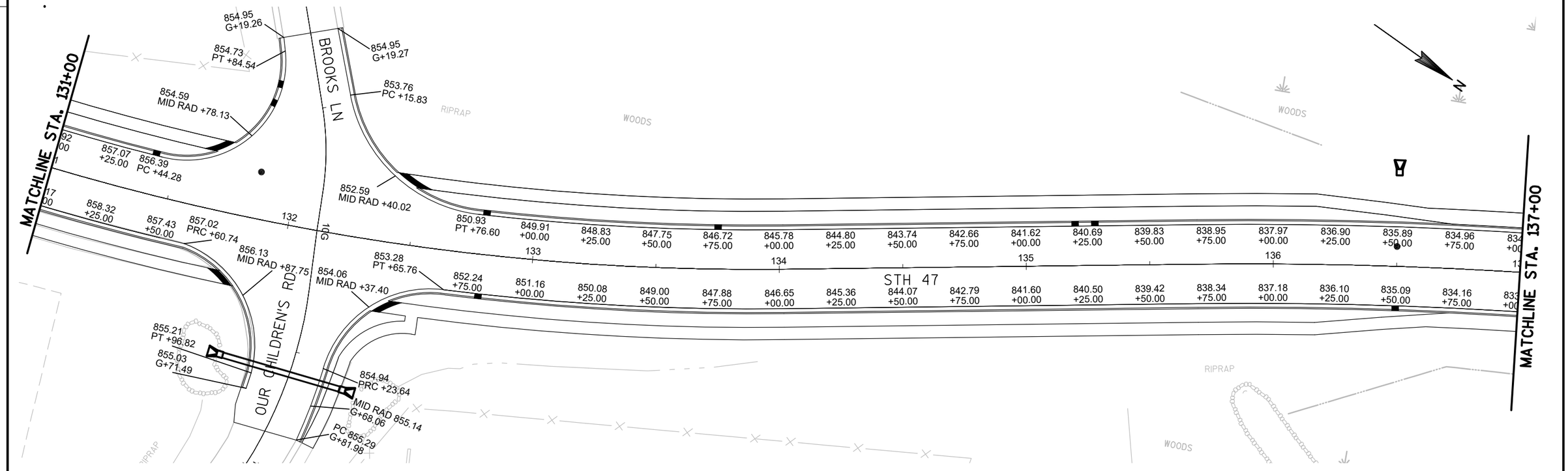
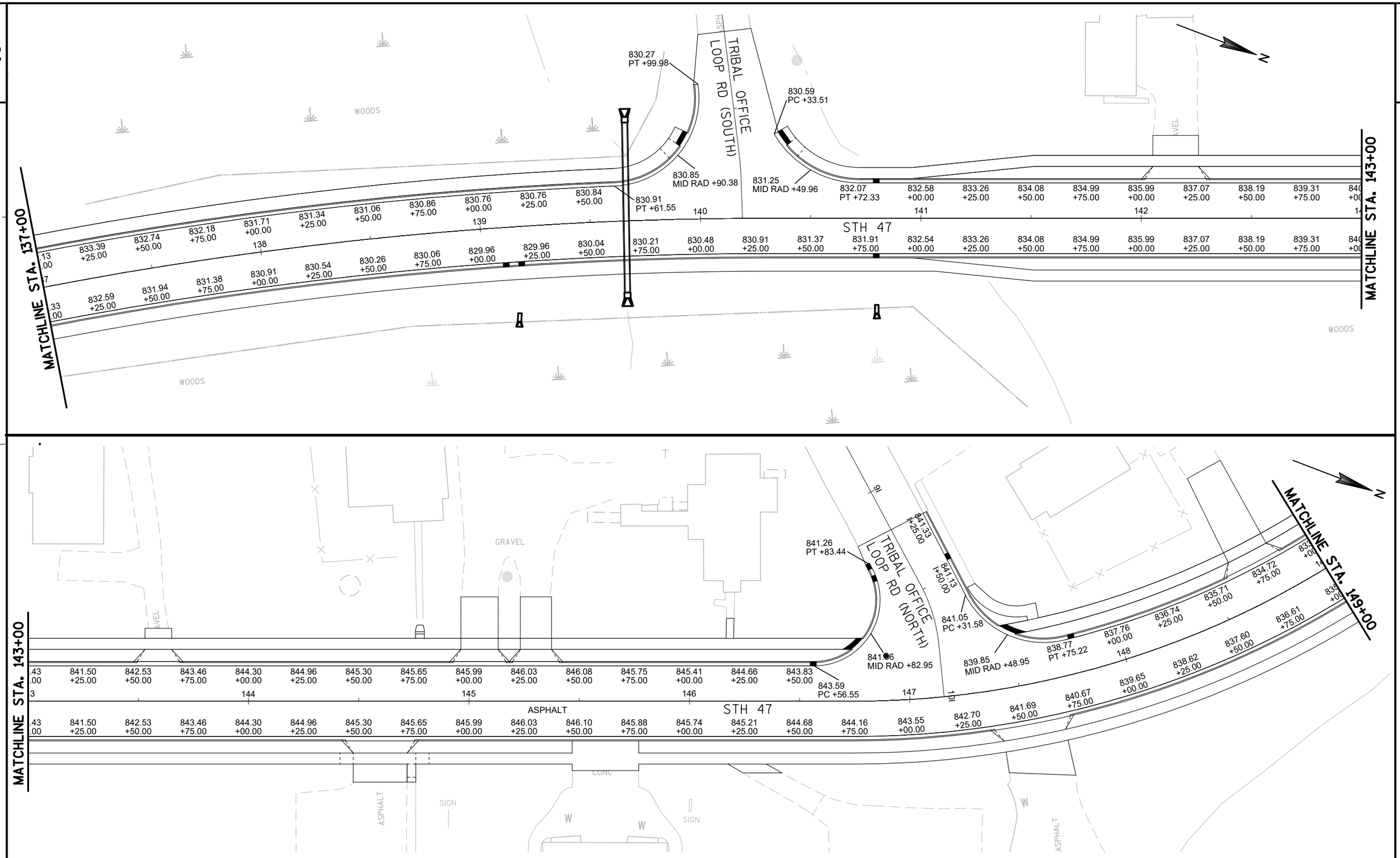


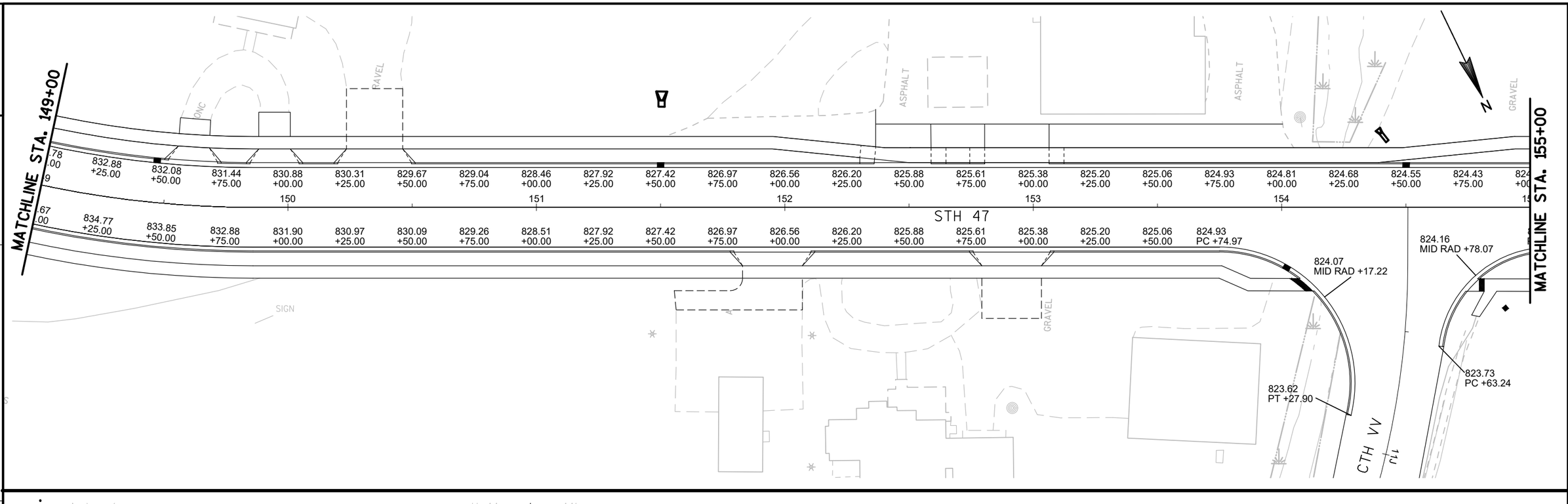


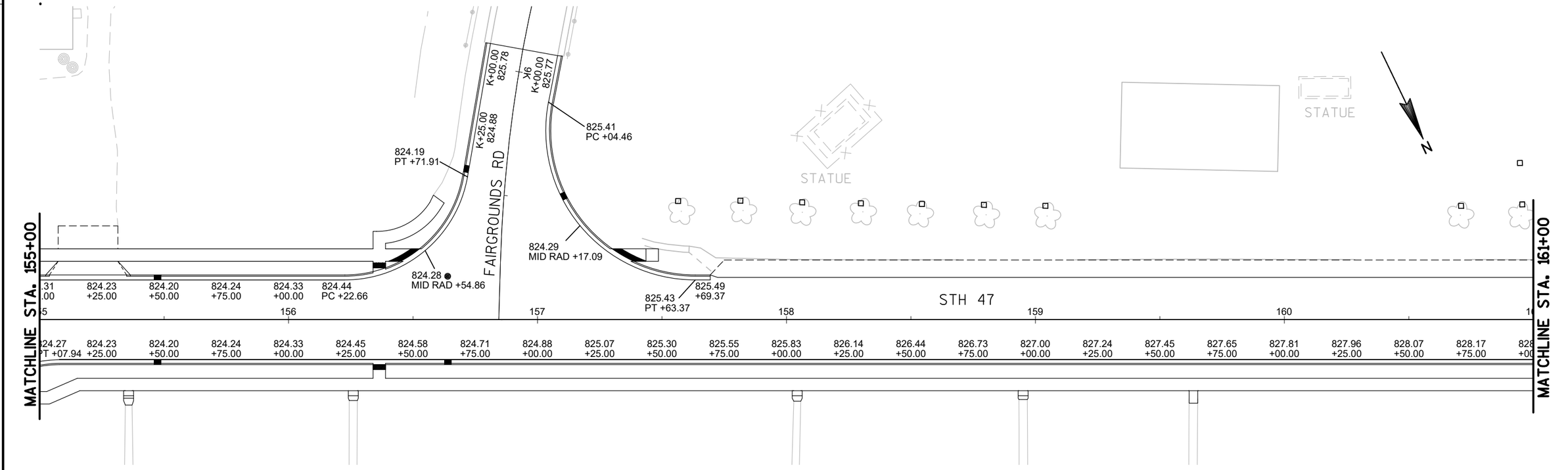
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PAVING GRADES	SHEET 63	E



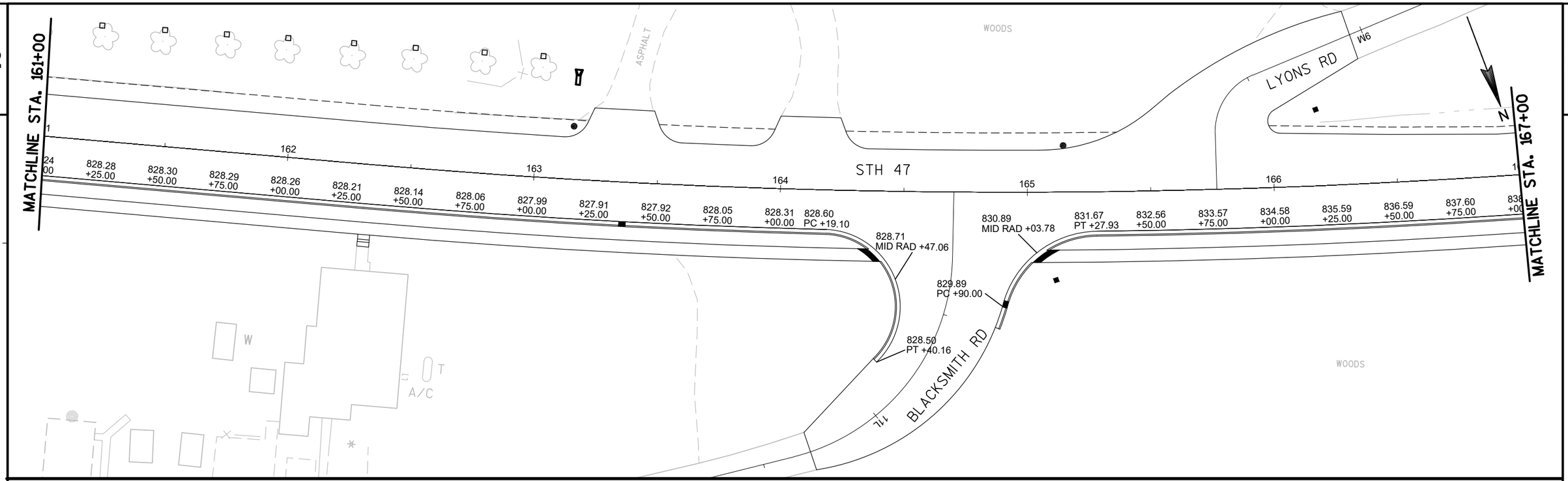
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PAVING GRADES	SHEET 64 E

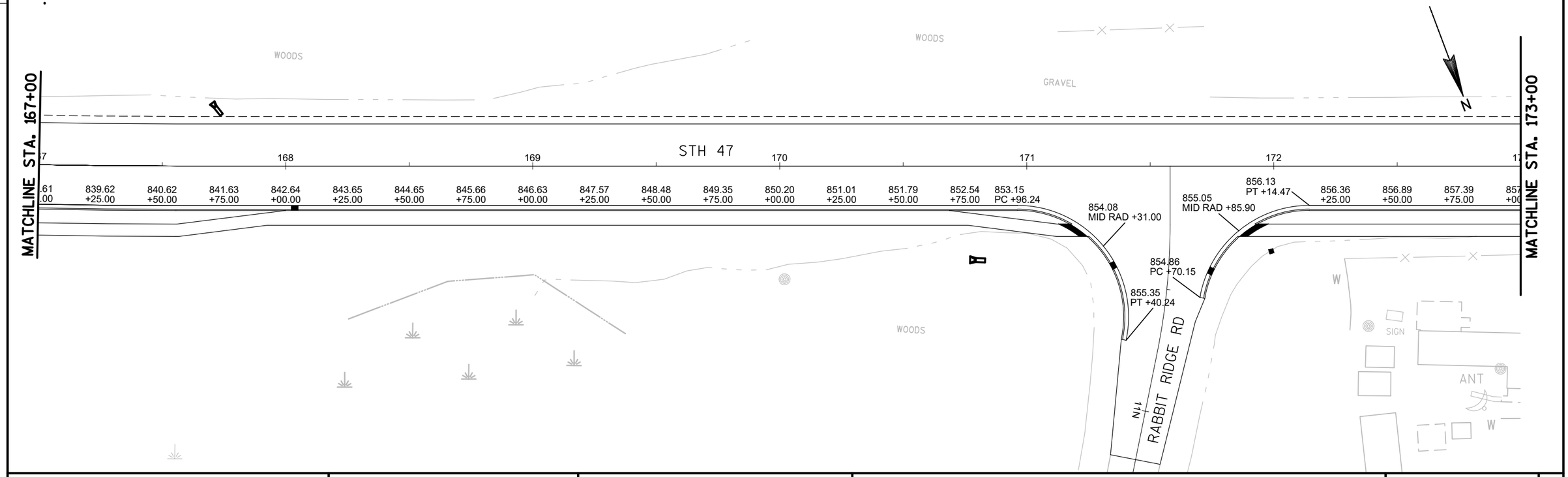
FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0212_PG.DWG PLOT DATE : 1/22/2020 4:38 PM PLOT BY : DOLAN, ISAAC PLOT NAME :





PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PAVING GRADES	SHEET 65	E

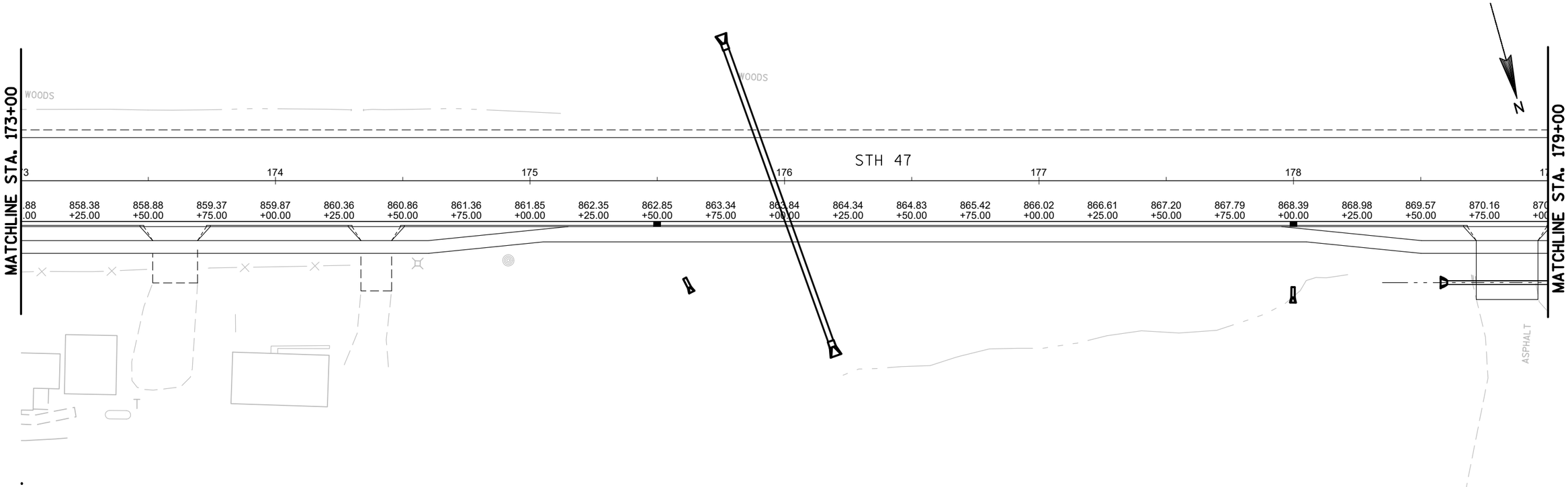


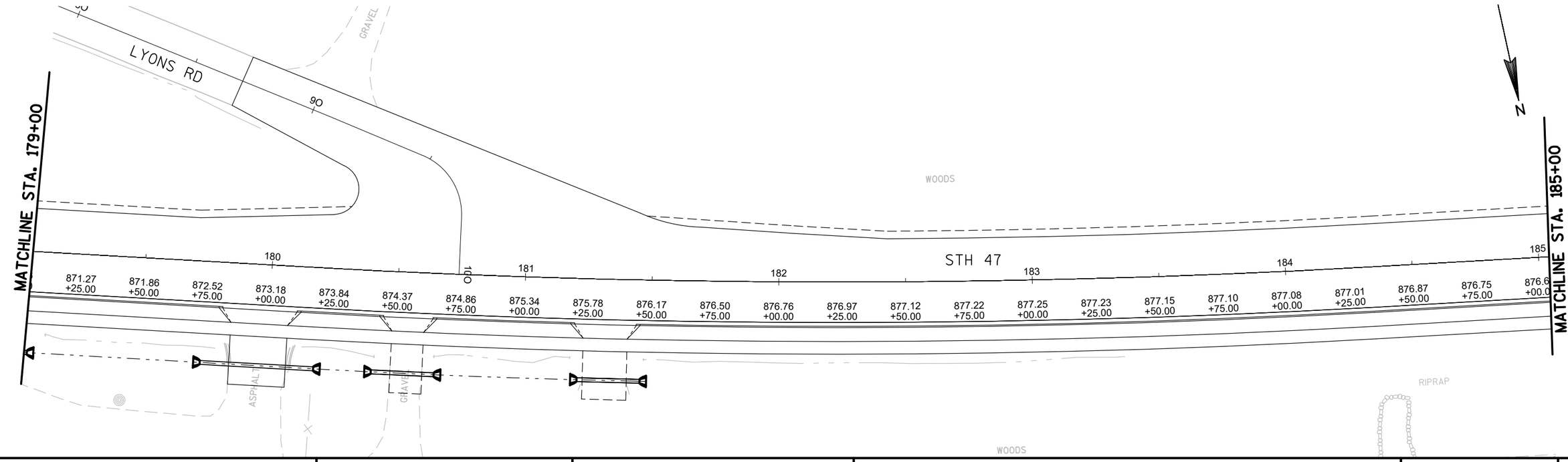


PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PAVING GRADES	SHEET	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0212_PG.DWG PLOT DATE : 1/22/2020 4:39 PM PLOT BY : DOLAN, ISAAC PLOT NAME :

2



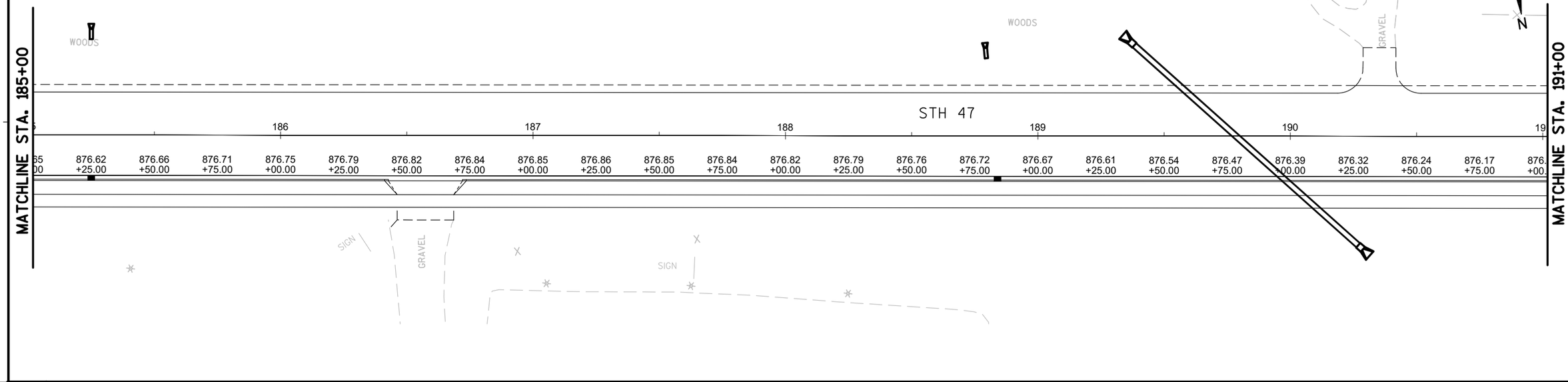


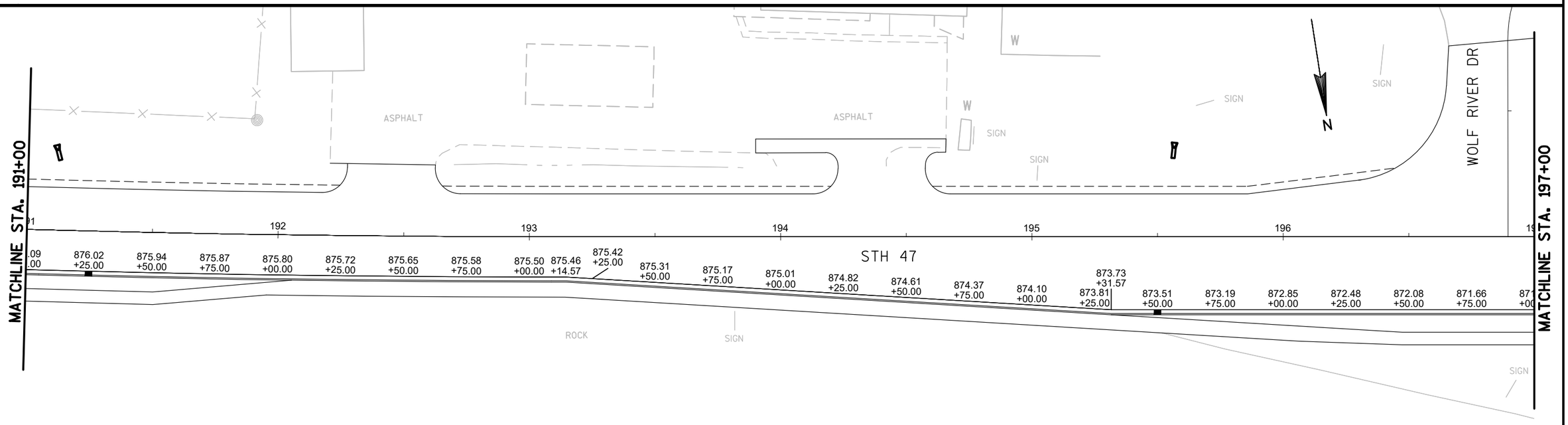
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PAVING GRADES	SHEET 67	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0212_PG.DWG PLOT DATE : 1/22/2020 4:40 PM PLOT BY : DOLAN, ISAAC PLOT NAME :

WISDOT/CADDS SHEET 42

2





2

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PAVING GRADES	SHEET 68	E

2

2

WOLF RIVER DR

MATCHLINE STA. 197+00

SIGN

N

197 198 199 200 201 202 203

STH 47

.21 870.74 +25.00 870.24 +50.00 869.71 +75.00 869.26 +94.98
.00

SIGN

SIGN

A

N

SIGN

871.17 B+63.04

869.38 B+50.00 869.74 B+75.00 870.13 B+00.00 870.56 B+25.00 870.96 B+50.00 871.33 B+75.00 871.66 B+00.00 14B 871.98 B+25.00

869.91 B+90.99

WARRINGTON ROAD

12B 13B

870.16 B+87.09

871.07 B+65.91

869.64 B+50.00 869.99 B+75.00 870.33 B+00.00 870.64 B+25.00 870.92 B+50.00 871.24 B+75.00 871.60 B+00.00 871.96 B+25.00

11B

STH 47

SIGN

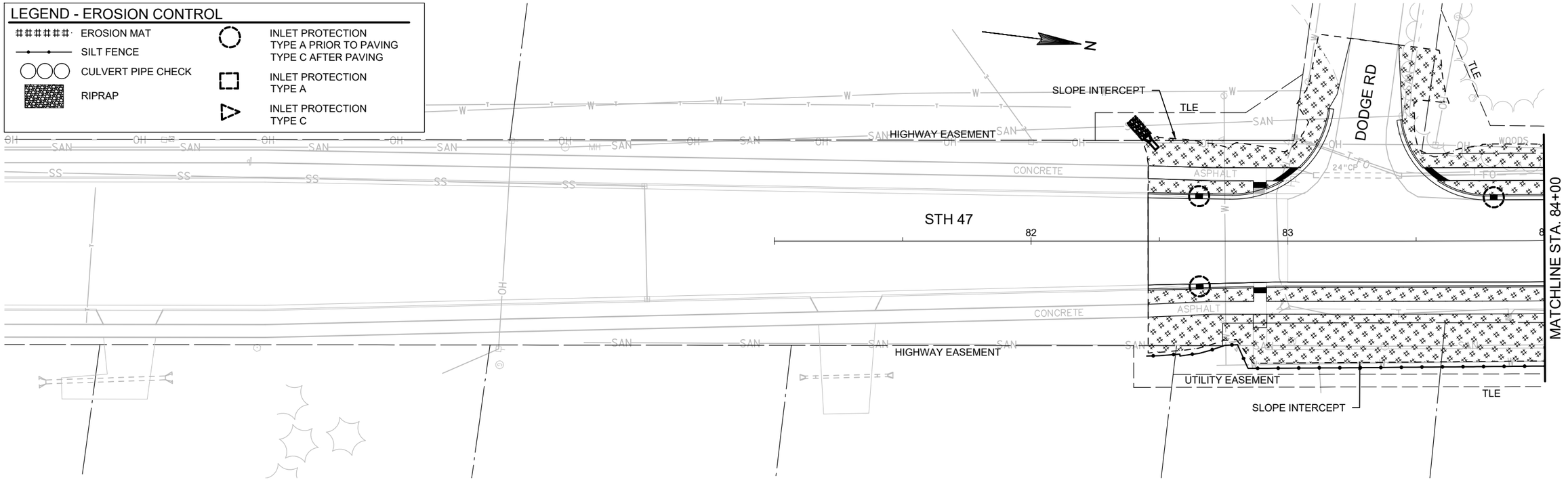
SIGN

ASPHALT

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PAVING GRADES	SHEET 69	E

LEGEND - EROSION CONTROL

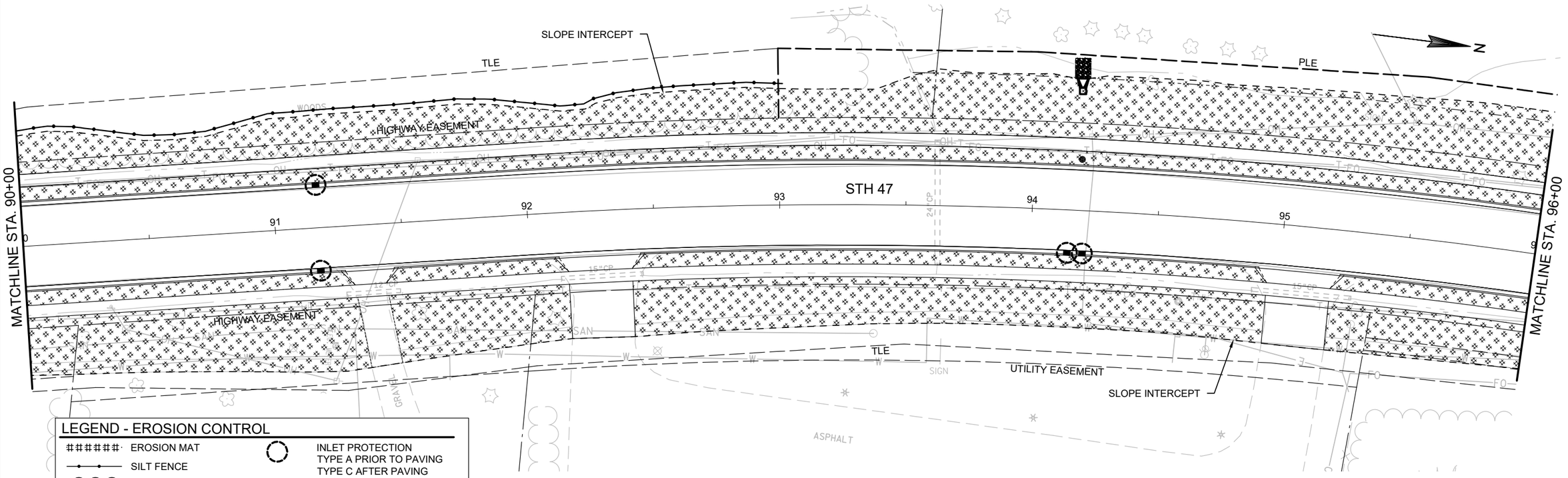
- EROSION MAT
- SILT FENCE
- CULVERT PIPE CHECK
- RIPRAP
- INLET PROTECTION TYPE A PRIOR TO PAVING TYPE C AFTER PAVING
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE C



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	EROSION CONTROL	SHEET 70	E

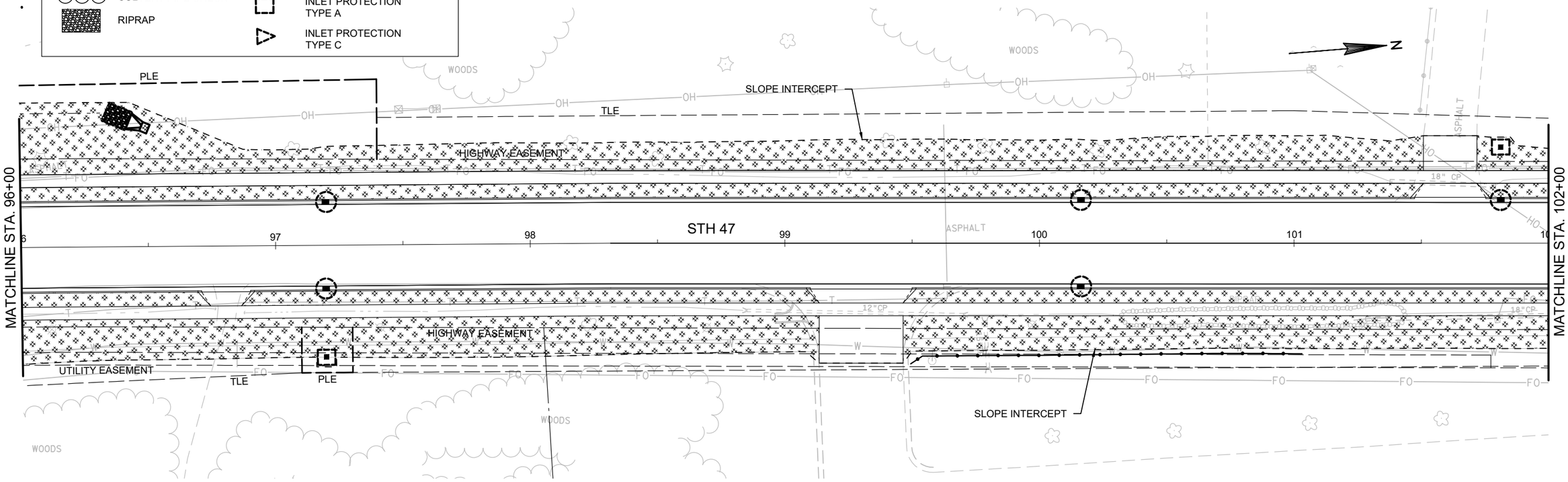
FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0220_EC.DWG PLOT DATE : 1/27/2020 5:36 PM PLOT BY : DOLAN, ISAAC PLOT NAME :

WISDOT/CADDS SHEET 42

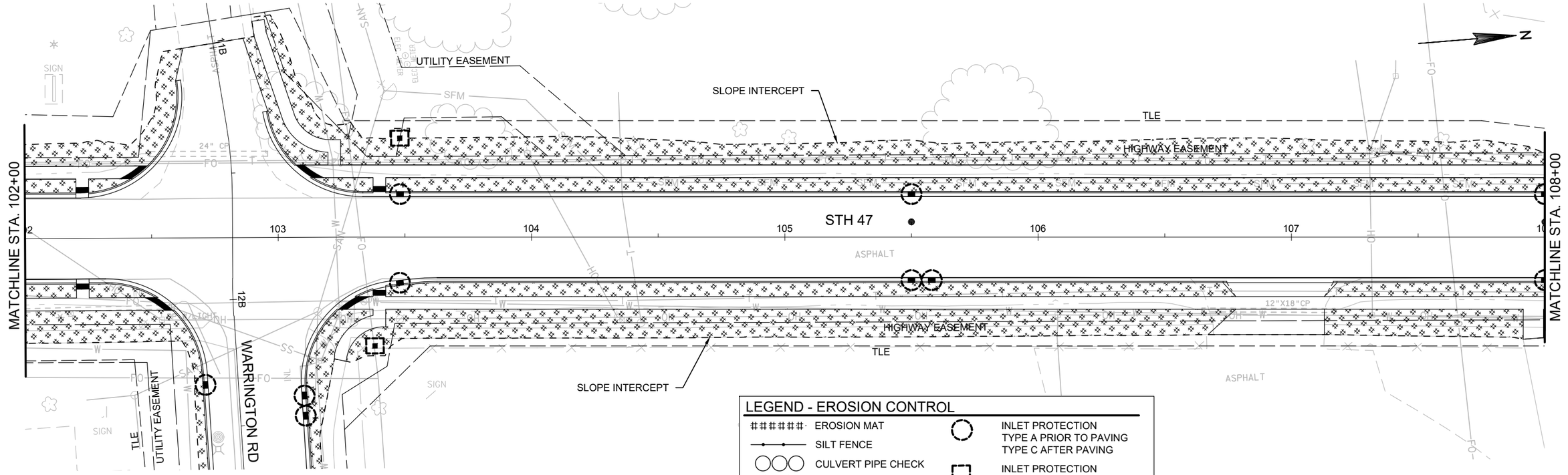


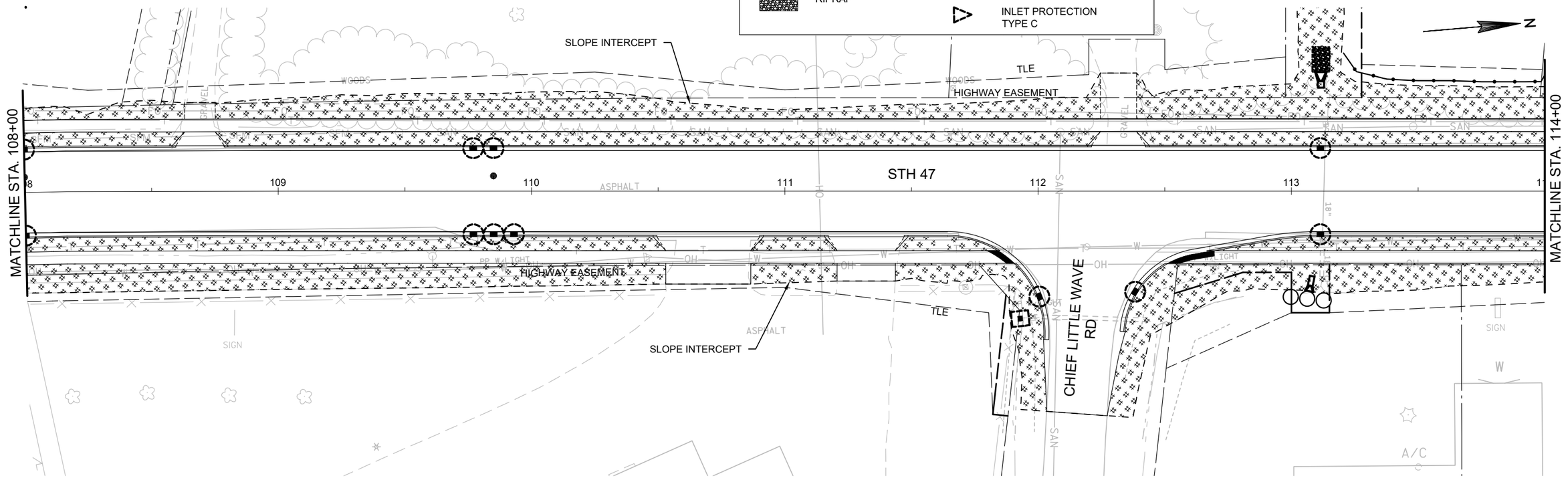
LEGEND - EROSION CONTROL

- EROSION MAT
- SILT FENCE
- CULVERT PIPE CHECK
- RIPRAP
- INLET PROTECTION TYPE A PRIOR TO PAVING TYPE C AFTER PAVING
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE C

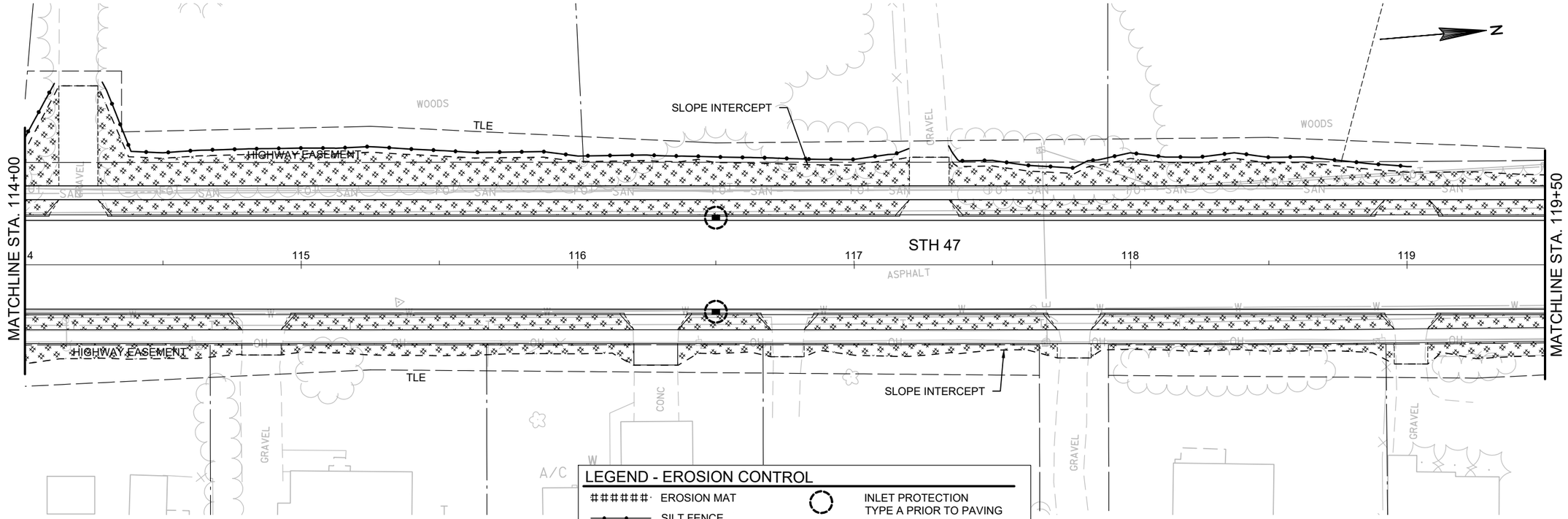


PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	EROSION CONTROL	SHEET 71	E



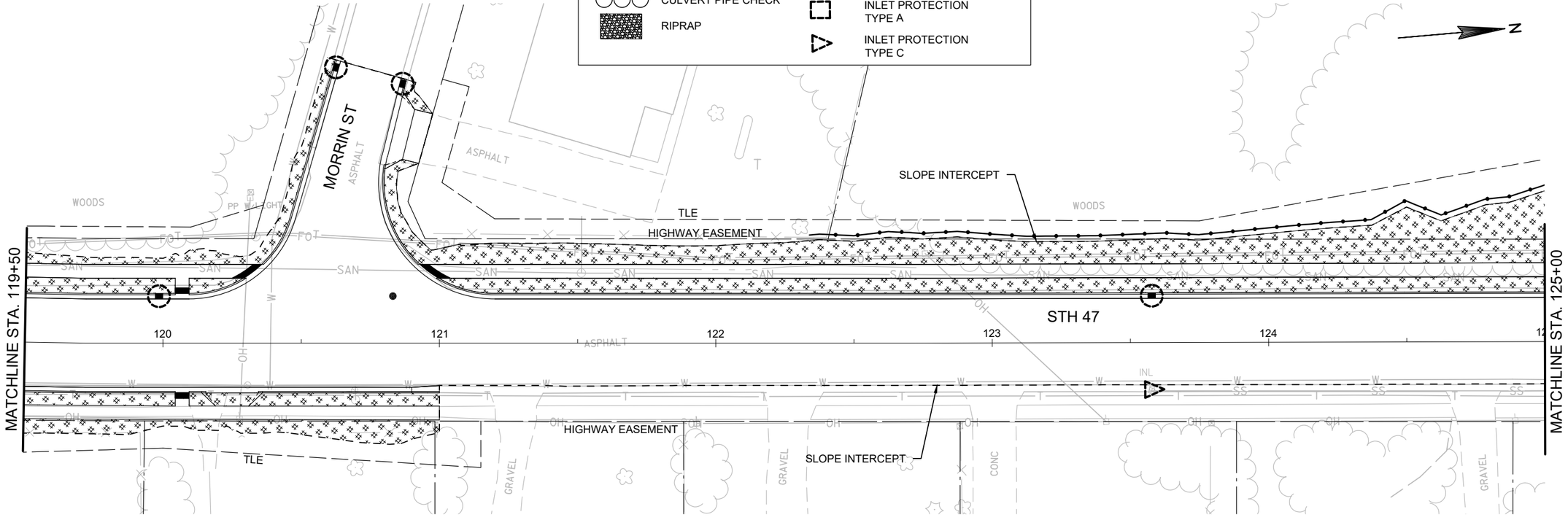


PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	EROSION CONTROL	SHEET 72	E



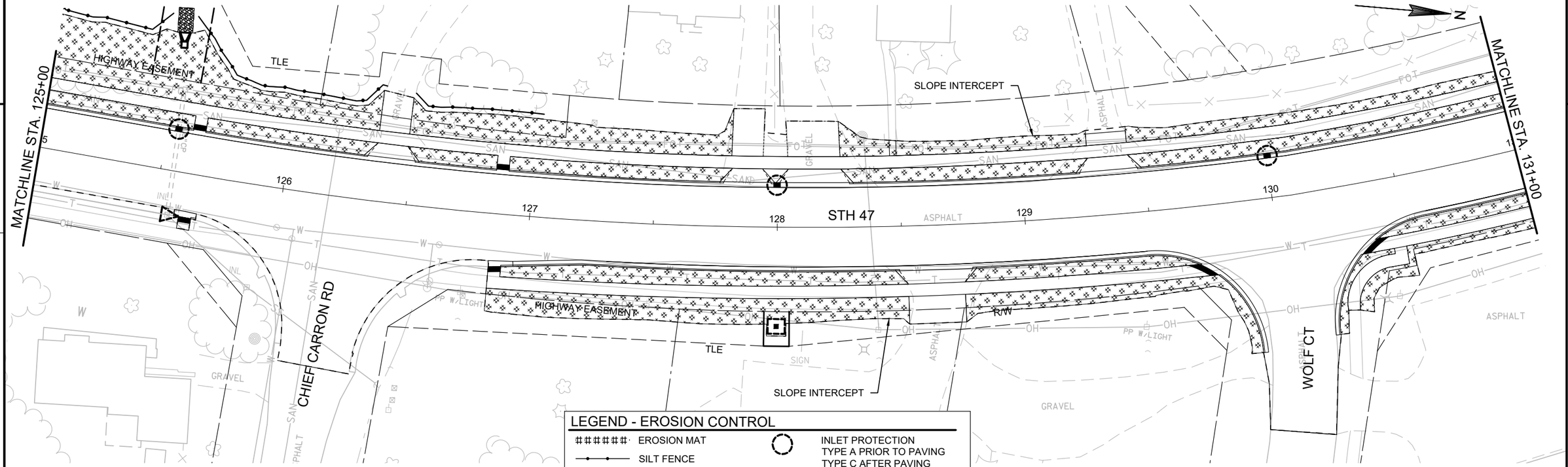
LEGEND - EROSION CONTROL

- EROSION MAT
- SILT FENCE
- CULVERT PIPE CHECK
- RIPRAP
- INLET PROTECTION TYPE A PRIOR TO PAVING TYPE C AFTER PAVING
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE C



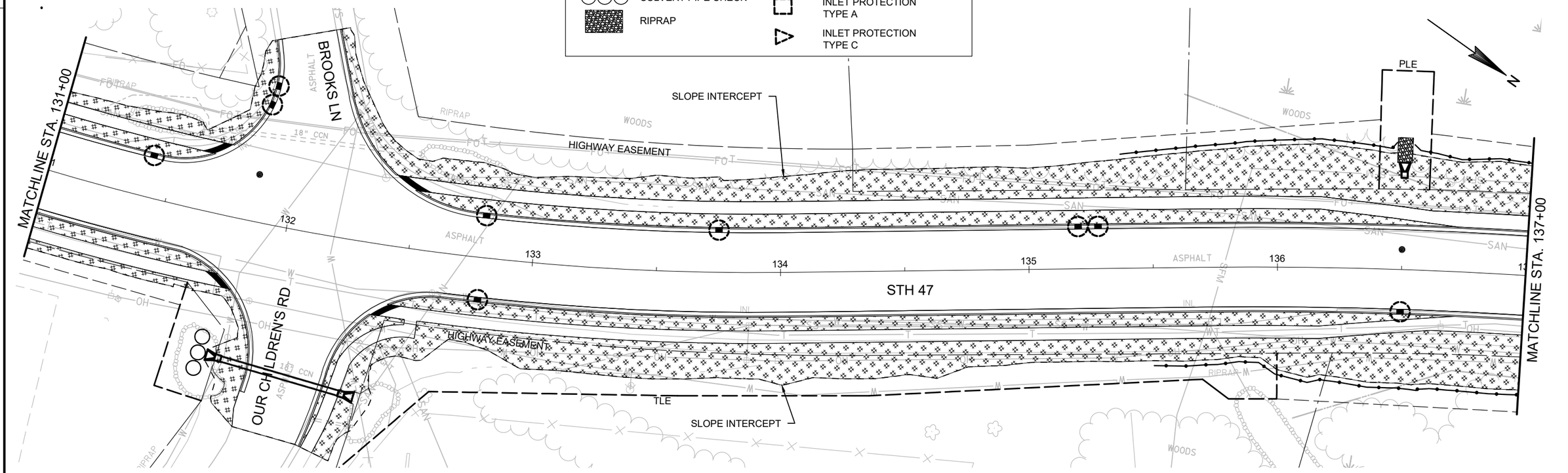
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	EROSION CONTROL	SHEET 73	E

2

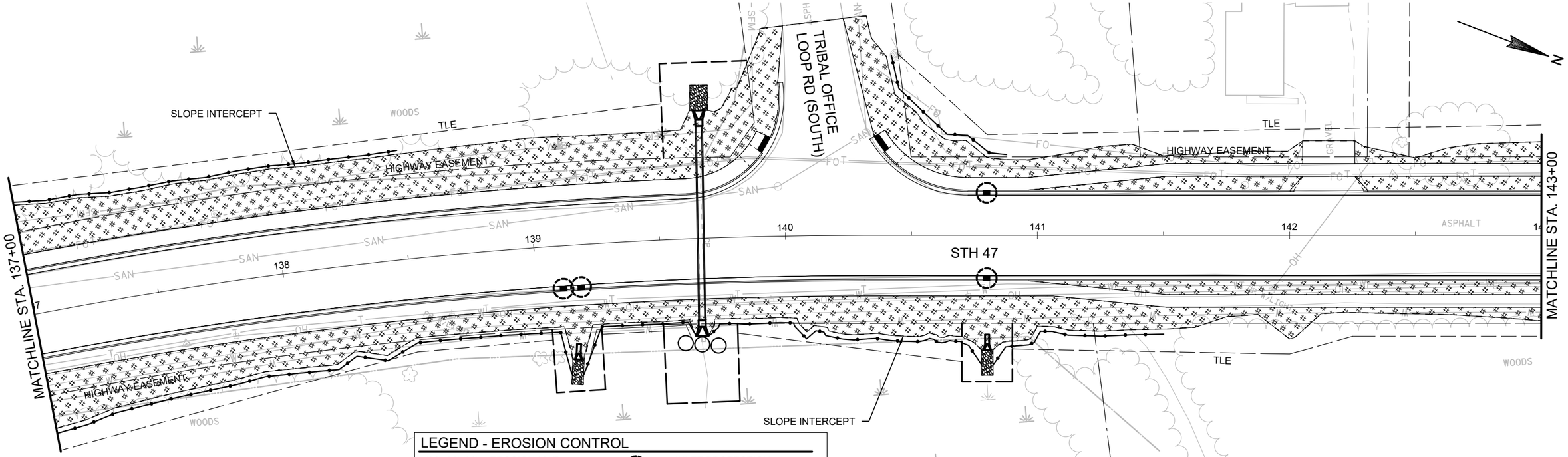


LEGEND - EROSION CONTROL

- EROSION MAT
- SILT FENCE
- CULVERT PIPE CHECK
- RIPRAP
- INLET PROTECTION TYPE A PRIOR TO PAVING TYPE C AFTER PAVING
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE C

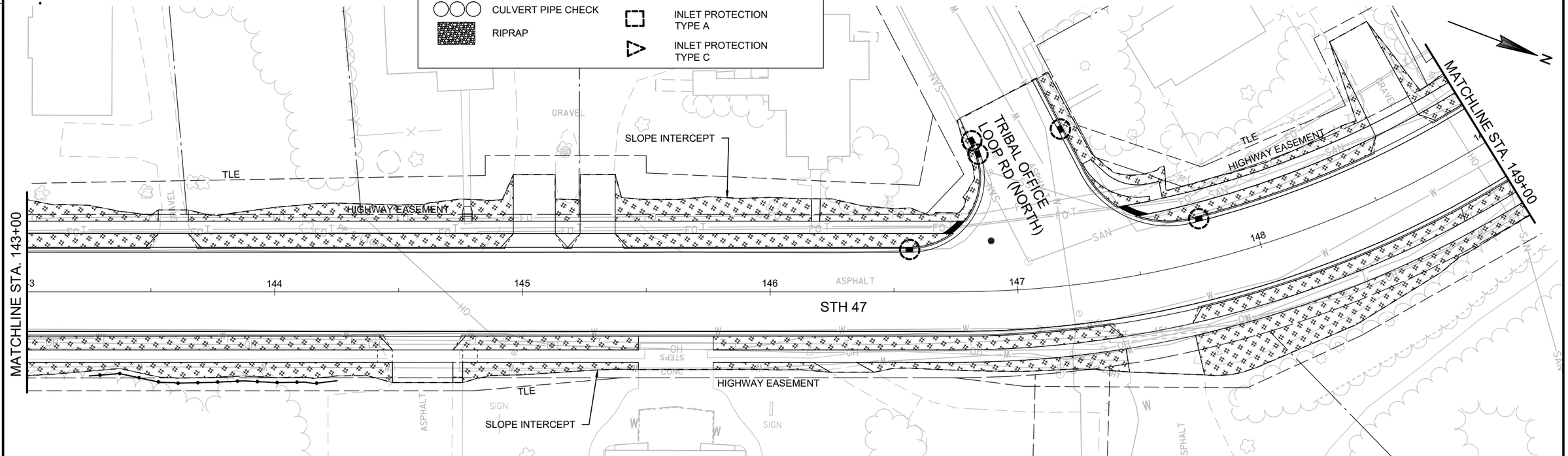


PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	EROSION CONTROL	SHEET 74	E

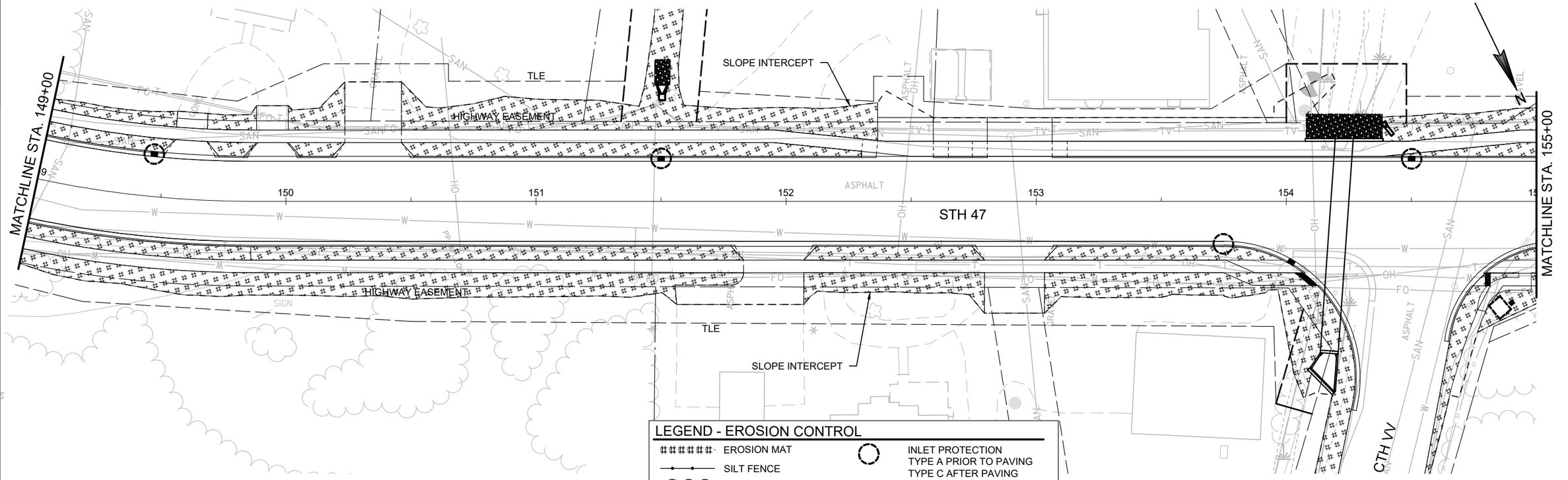


LEGEND - EROSION CONTROL

- EROSION MAT
- SILT FENCE
- CULVERT PIPE CHECK
- RIPRAP
- INLET PROTECTION TYPE A PRIOR TO PAVING TYPE C AFTER PAVING
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE C



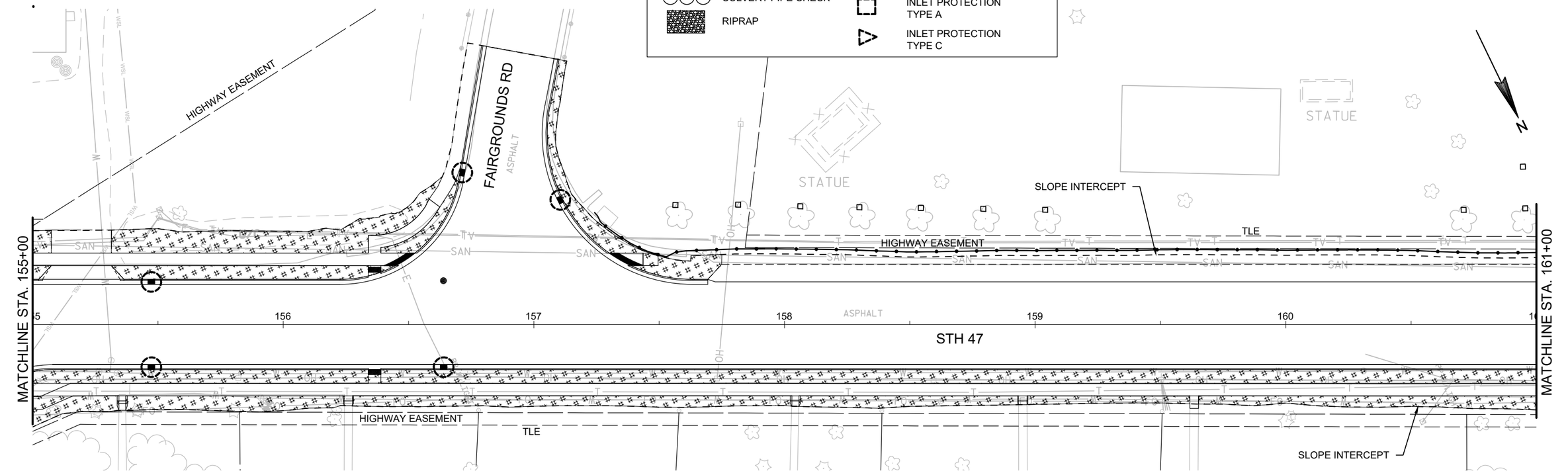
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	EROSION CONTROL	SHEET 75	E



2

LEGEND - EROSION CONTROL

- EROSION MAT
- SILT FENCE
- CULVERT PIPE CHECK
- RIPRAP
- INLET PROTECTION TYPE A PRIOR TO PAVING TYPE C AFTER PAVING
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE C



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	EROSION CONTROL	SHEET 76	E

2

MATCHLINE STA. 161+00

MATCHLINE STA. 167+00

MATCHLINE STA. 173+00

STH 47

LYONS RD

BLACKSMITH RD

RABBIT RIDGE RD

TLE HIGHWAY EASEMENT

SLOPE INTERCEPT

HIGHWAY EASEMENT

WOODS

ASPHALT

LEGEND - EROSION CONTROL

- EROSION MAT
- SILT FENCE
- CULVERT PIPE CHECK
- RIPRAP
- INLET PROTECTION TYPE A PRIOR TO PAVING TYPE C AFTER PAVING
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE C

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	EROSION CONTROL	SHEET 77	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0220_EC.DWG PLOT DATE : 1/27/2020 5:39 PM PLOT BY : DOLAN, ISAAC PLOT NAME :

WISDOT/CADDS SHEET 42

2

PLE

HIGHWAY EASEMENT

WOODS

MATCHLINE STA. 173+00

173 174 175 176 177 178 179

ASPHALT

STH 47

SLOPE INTERCEPT

24" CCP

GRAVEL

OH

18" CCN

HIGHWAY EASEMENT

TLE

MATCHLINE STA. 179+00

LEGEND - EROSION CONTROL

- EROSION MAT
- SILT FENCE
- CULVERT PIPE CHECK
- RIPRAP
- INLET PROTECTION TYPE A PRIOR TO PAVING TYPE C AFTER PAVING
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE C

LYONS RD

HIGHWAY EASEMENT

SLOPE INTERCEPT

ASPHALT

WOODS

MATCHLINE STA. 179+00

180 181 182 183 184 185

SLOPE INTERCEPT

STH 47

SAN

18" CCN

HIGHWAY EASEMENT

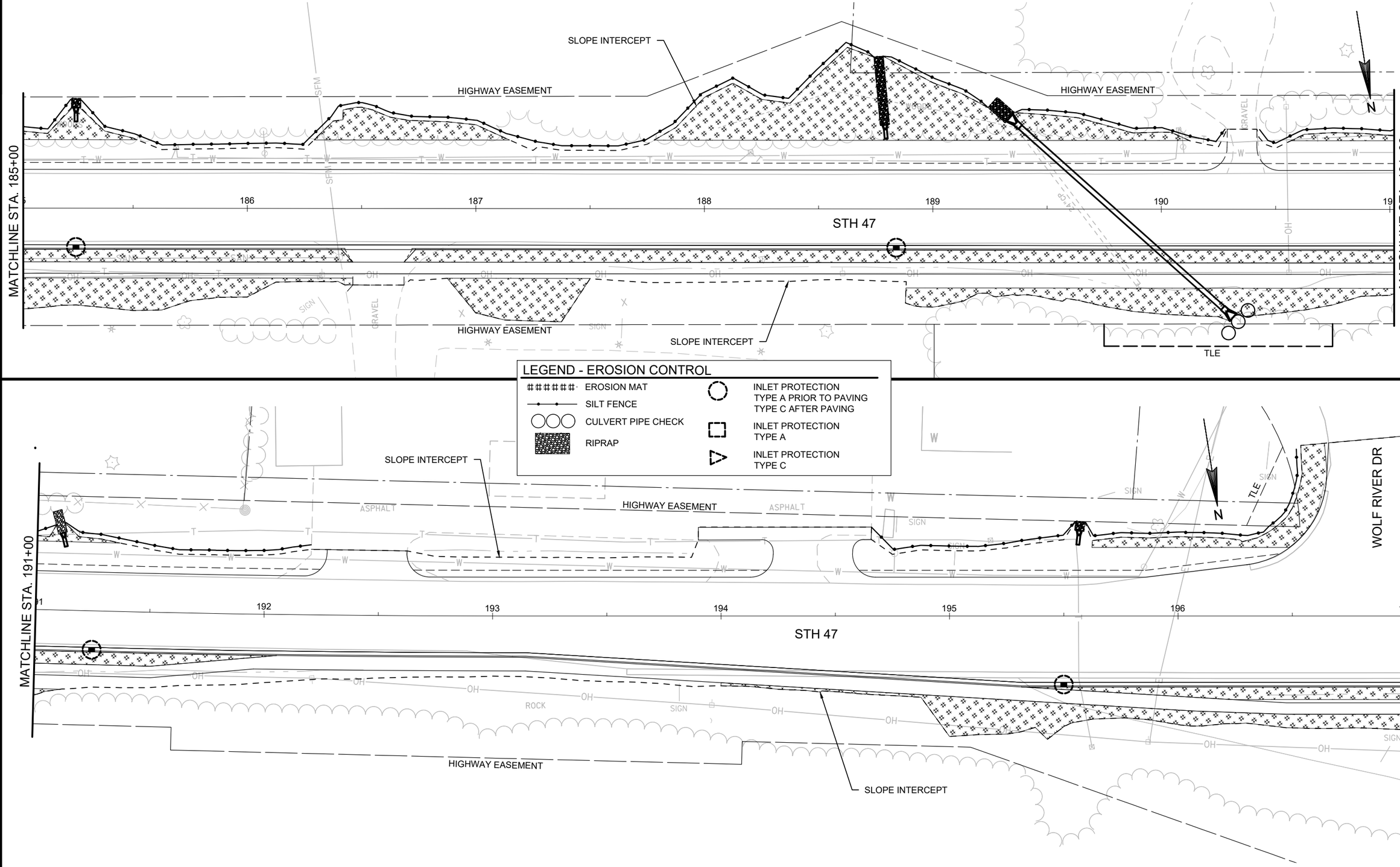
MATCHLINE STA. 185+00

RIPRAP

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	EROSION CONTROL	SHEET 78	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0220_EC.DWG PLOT DATE : 1/27/2020 5:40 PM PLOT BY : DOLAN, ISAAC PLOT NAME :

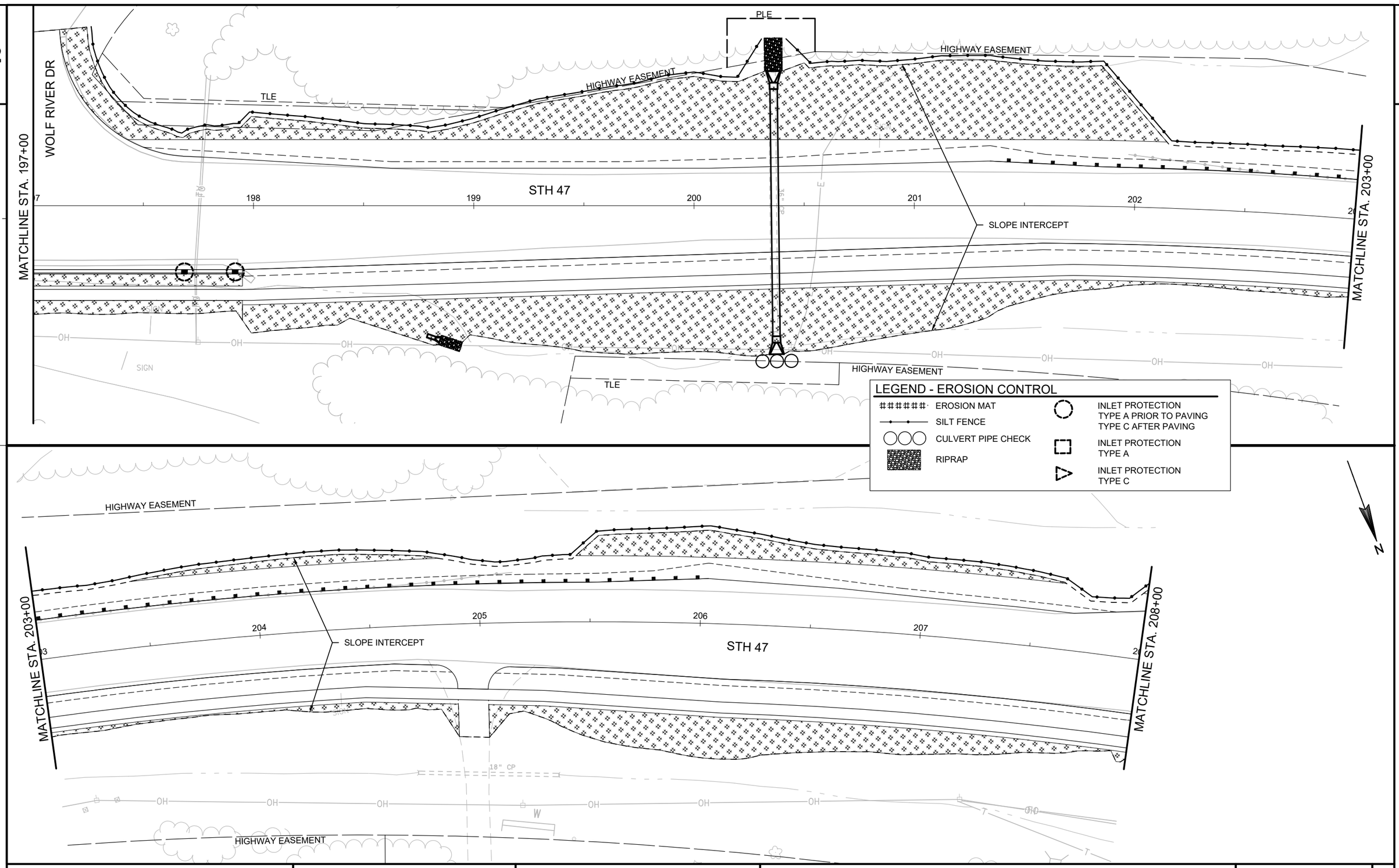
2



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	EROSION CONTROL	SHEET 79	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0220_EC.DWG PLOT DATE : 1/27/2020 5:40 PM PLOT BY : DOLAN, ISAAC PLOT NAME :

WISDOT/CADDS SHEET 42



LEGEND - EROSION CONTROL

- EROSION MAT
- SILT FENCE
- CULVERT PIPE CHECK
- RIPRAP
- INLET PROTECTION TYPE A PRIOR TO PAVING TYPE C AFTER PAVING
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE C

2

HIGHWAY EASEMENT

PLACE RIPRAP DIRECTLY ON EXISTING ESTABLISHED, VEGETATED SLOPE. DO NOT DISTURB SOIL OR PLACE GEOTEXTILE FABRIC DOWN PRIOR TO PLACEMENT OF RIPRAP.

COURTHOUSE LN

SLOPE INTERCEPT

MATCHLINE STA. 208+00

209 210 211 212 213

STH 47

MATCHLINE STA. 214+00

RIPRAP

WOLF RIVER

STH 55

SIGN

OH

FO

36" CP

SLOPE INTERCEPT

N

LEGEND - EROSION CONTROL

- EROSION MAT
- SILT FENCE
- CULVERT PIPE CHECK
- RIPRAP
- INLET PROTECTION TYPE A PRIOR TO PAVING TYPE C AFTER PAVING
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE C

MATCHLINE STA. 214+00

215 216 217 218 219 220

STH 47

INL

RIPRAP

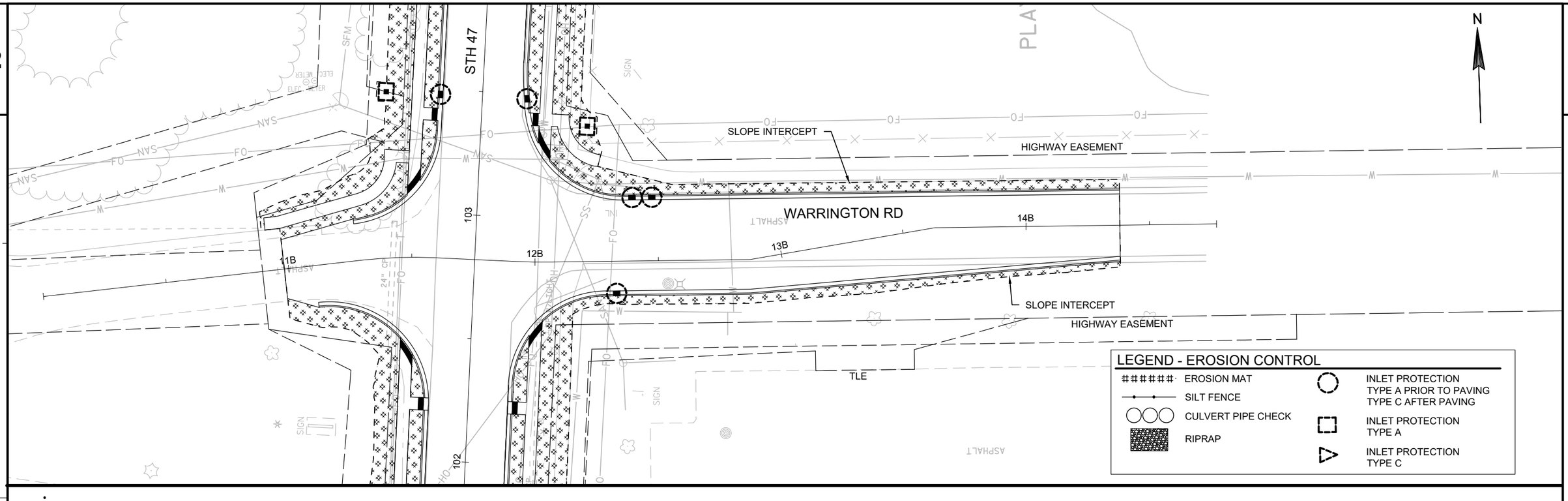
WOLF RIVER

CTH VV

N

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	EROSION CONTROL	SHEET	E

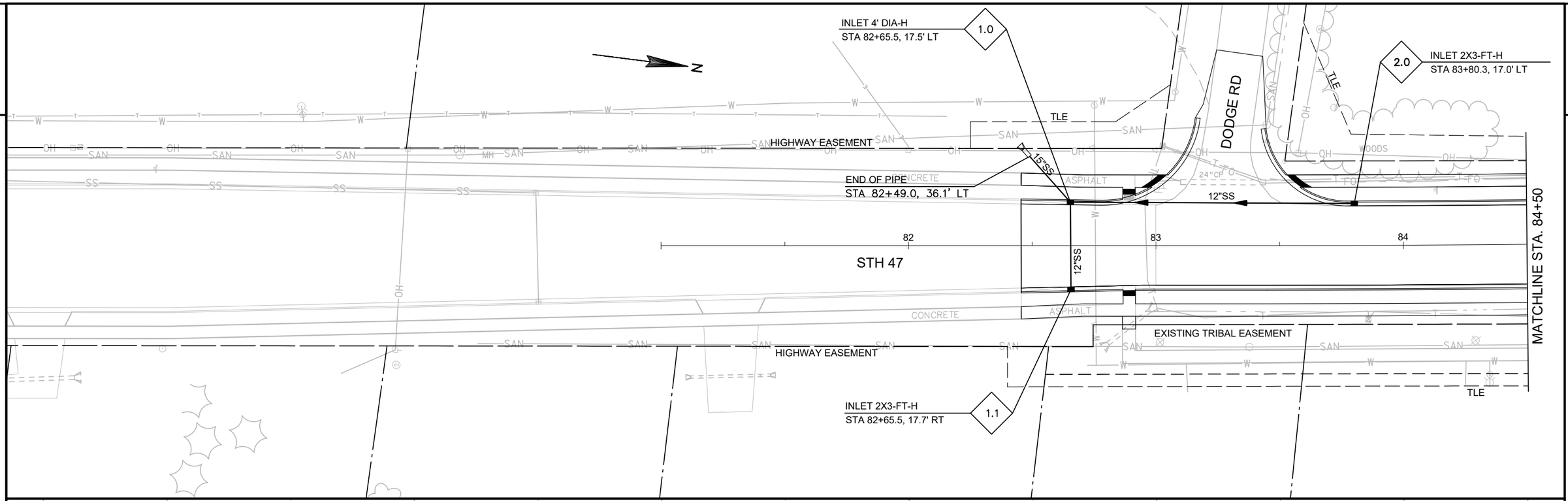
FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0220_EC.DWG PLOT DATE : 1/27/2020 5:41 PM PLOT BY : DOLAN, ISAAC PLOT NAME :



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	EROSION CONTROL	SHEET 82	E

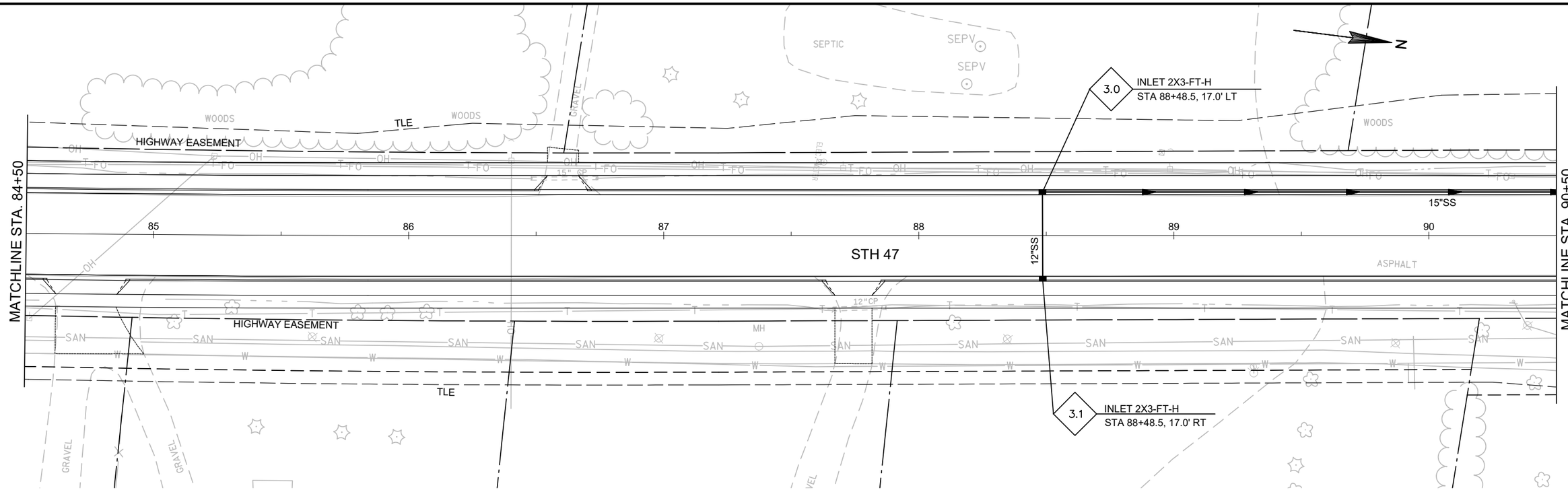
FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0220_EC.DWG PLOT DATE : 1/27/2020 5:41 PM PLOT BY : DOLAN, ISAAC PLOT NAME :

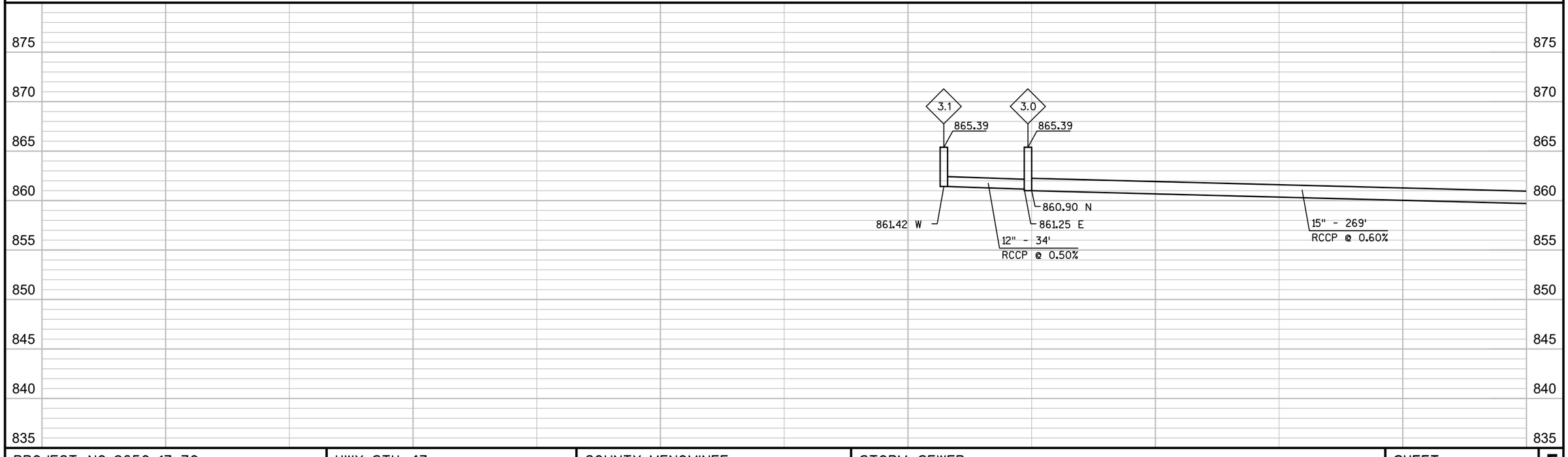
WISDOT/CADDS SHEET 42



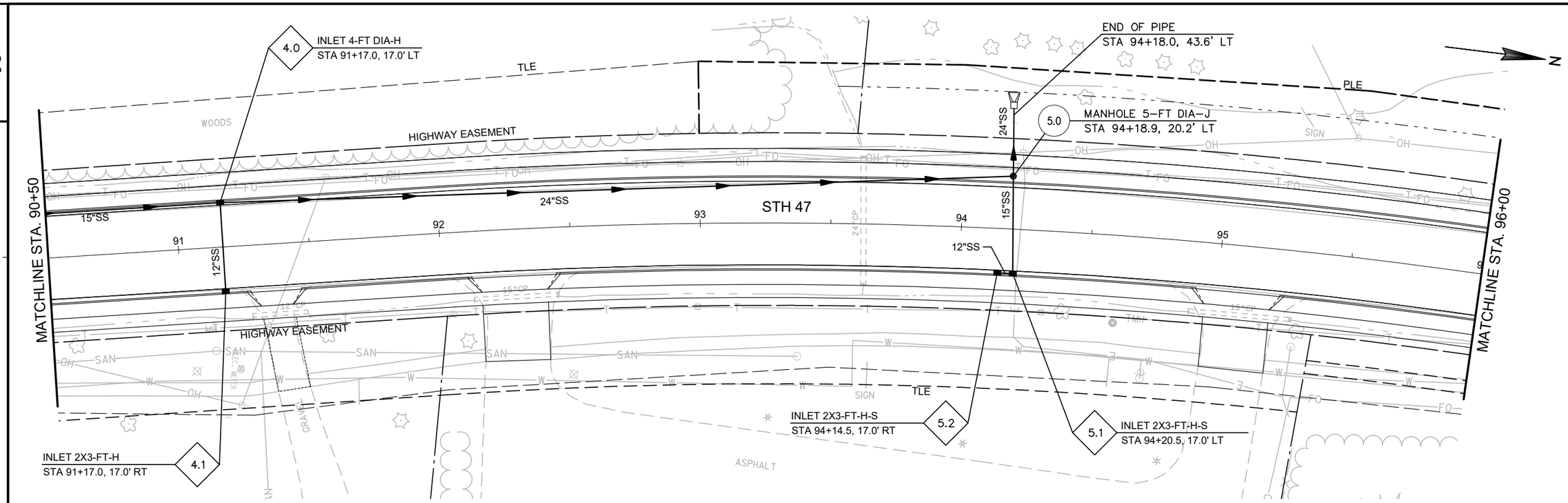
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	STORM SEWER	SHEET 83	E

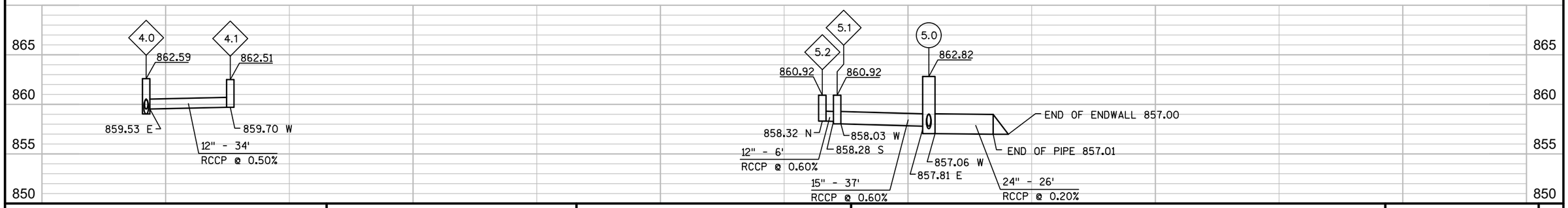
FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0225_SS.DWG
LAYOUT NAME - 0225_SS - 022501_SS
PLOT DATE : 1/28/2020 3:01 PM
PLOT BY : DOLAN, ISAAC
PLOT NAME :
PLOT SCALE : **********
WISDOT/CADDS SHEET 41



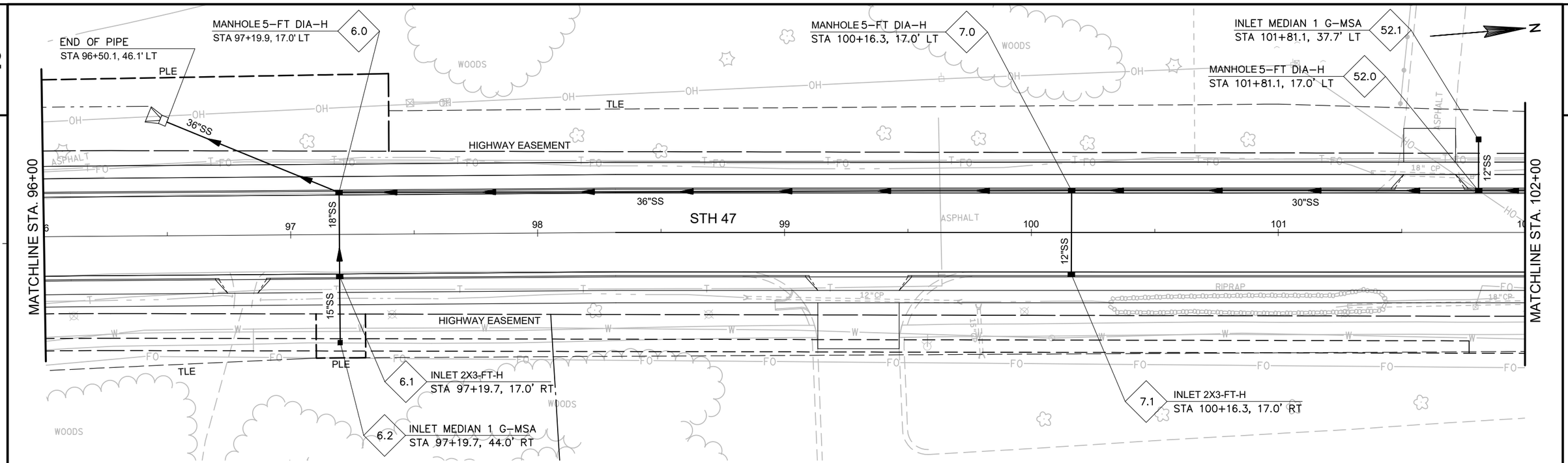


PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	STORM SEWER	SHEET 84	E

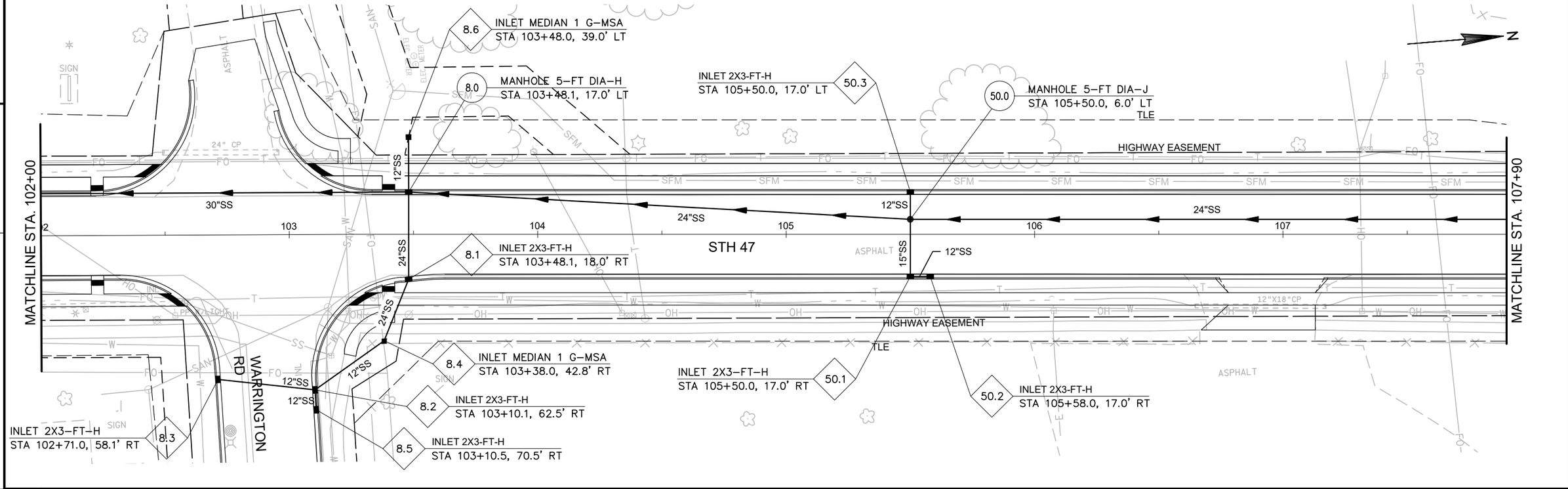


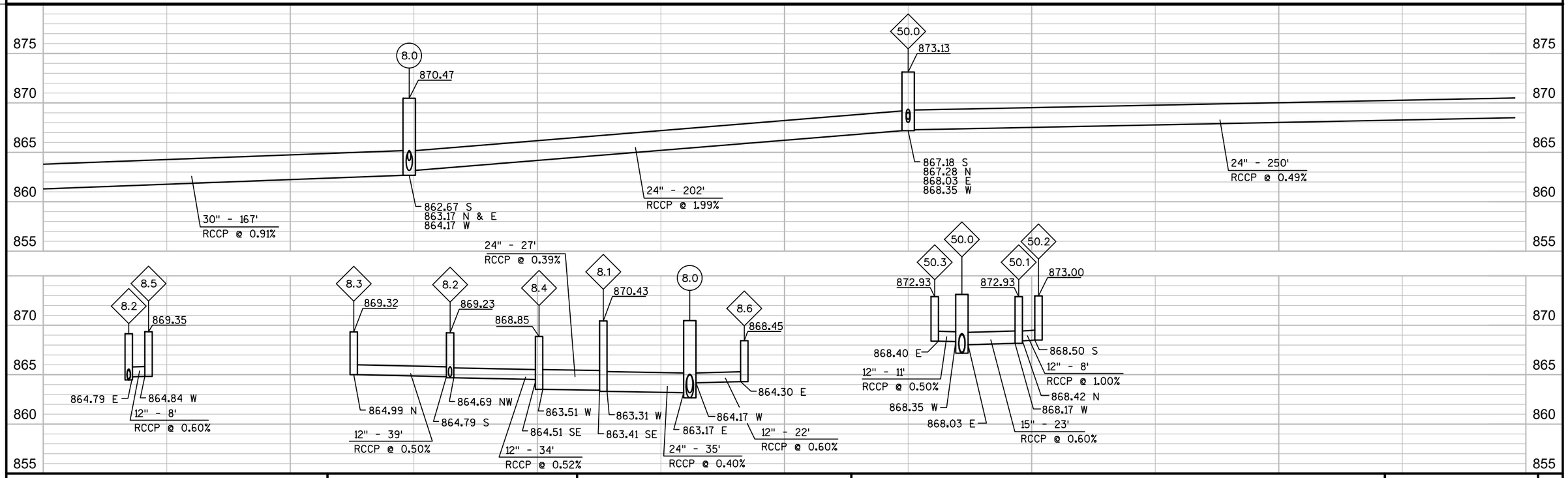


PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	STORM SEWER	SHEET 85	E

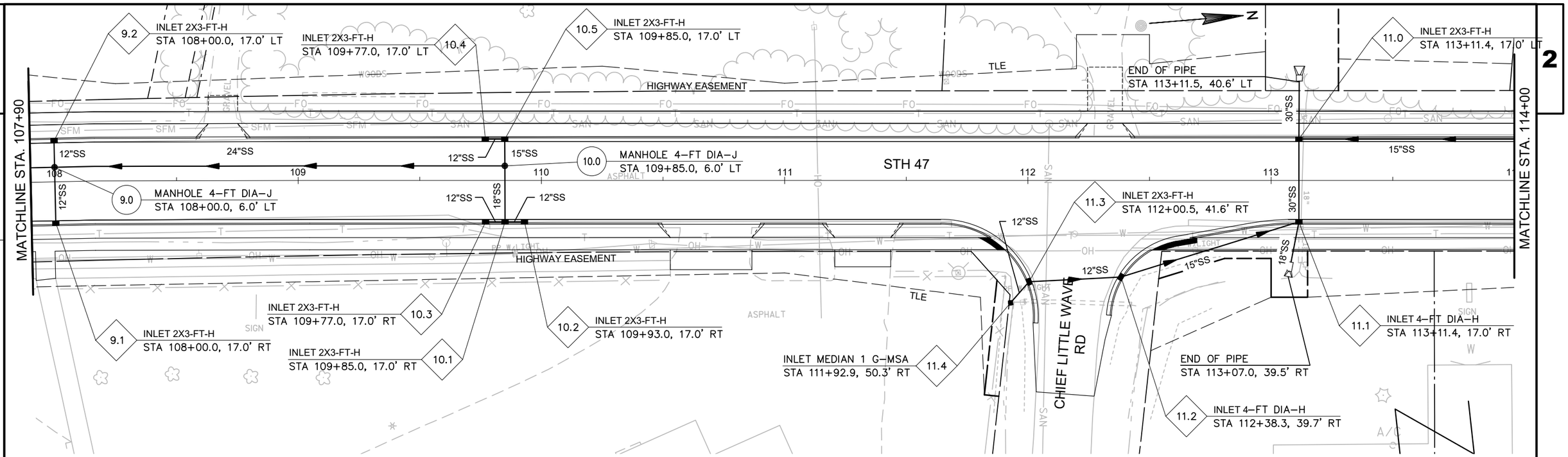


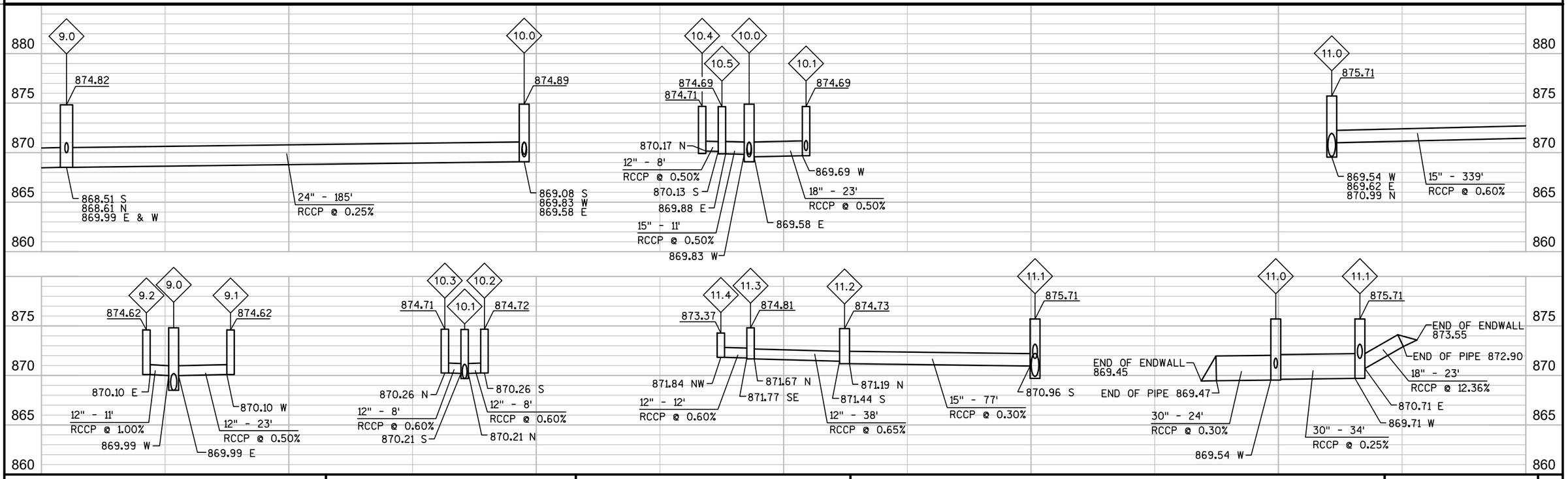
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	STORM SEWER	SHEET 86	E



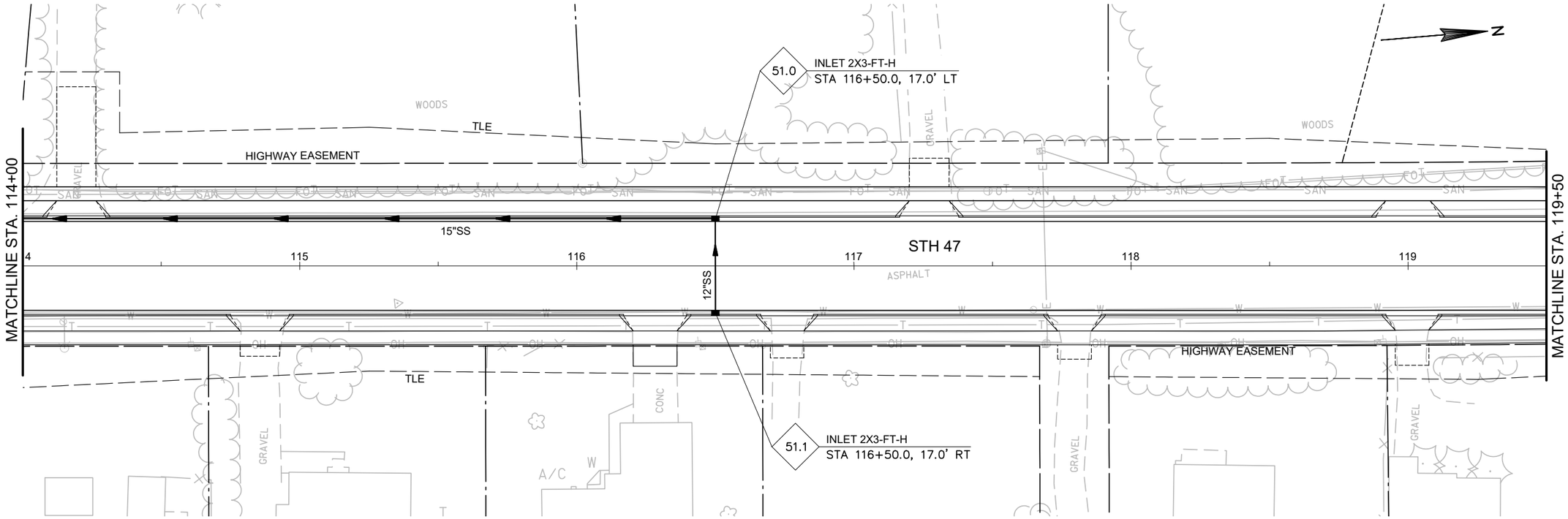


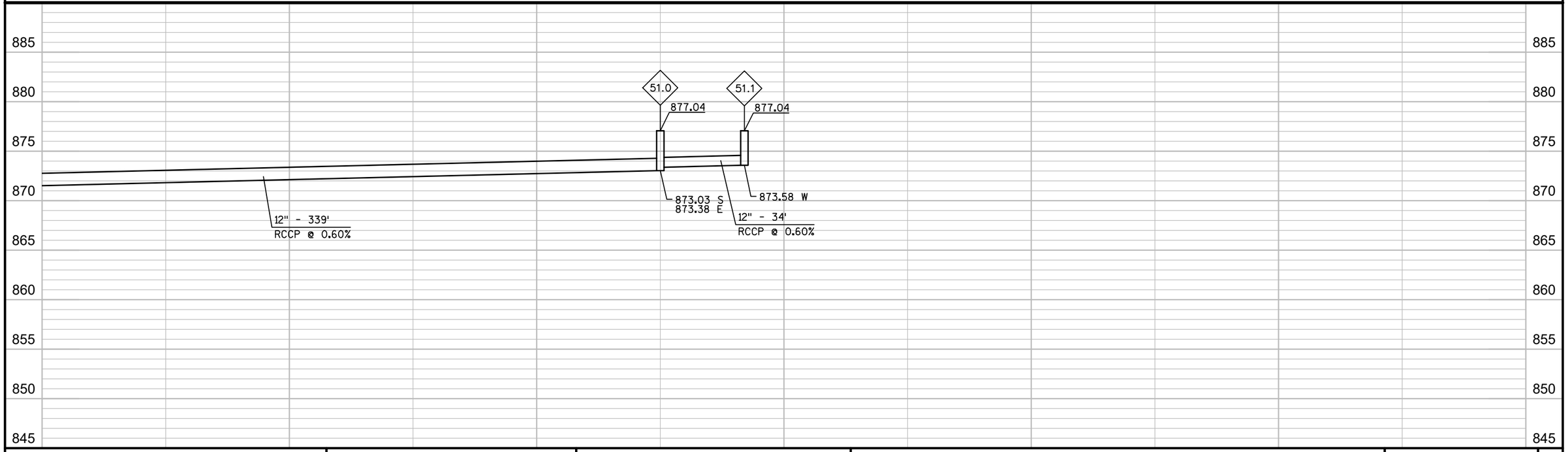
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	STORM SEWER	SHEET 87	E



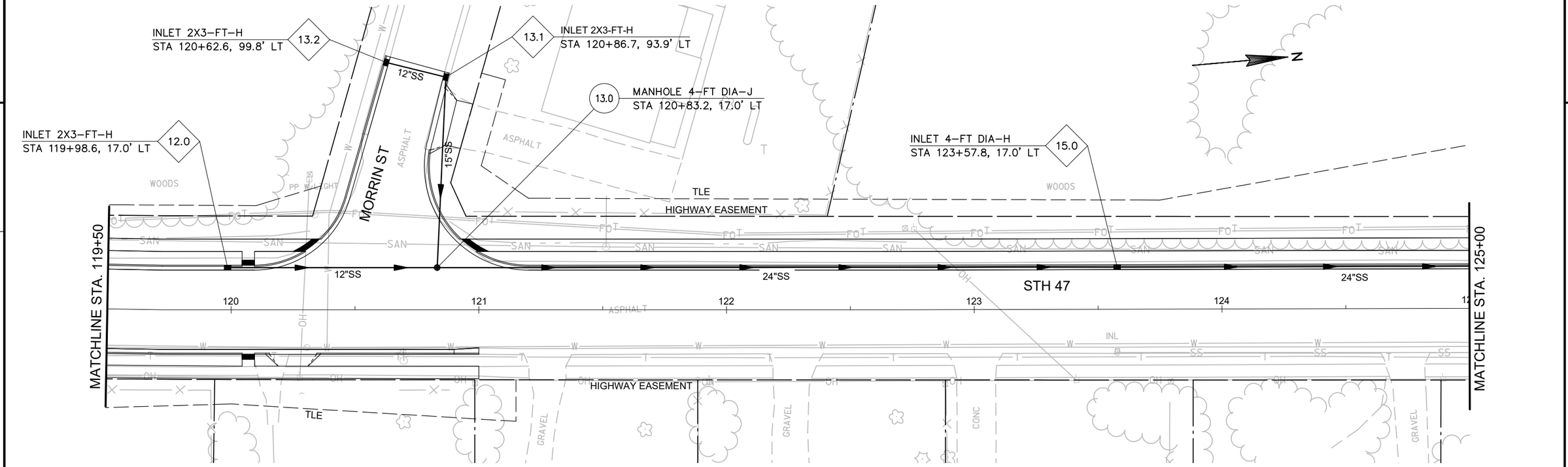


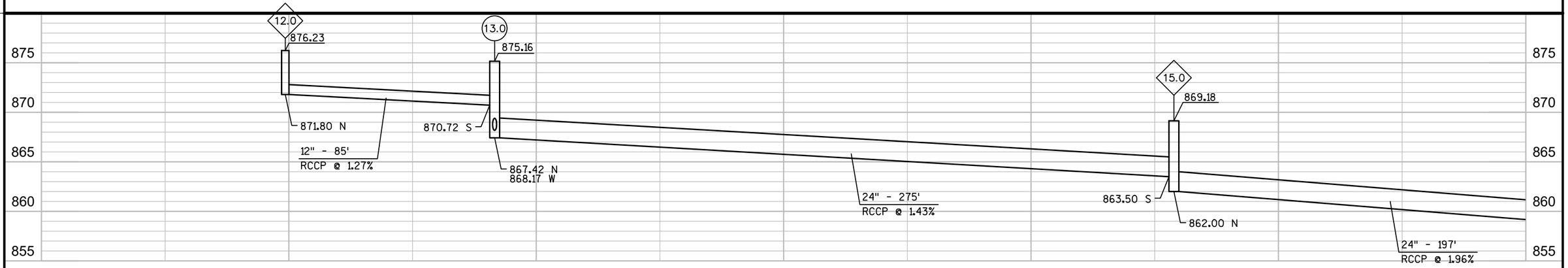
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	STORM SEWER	SHEET 88	E

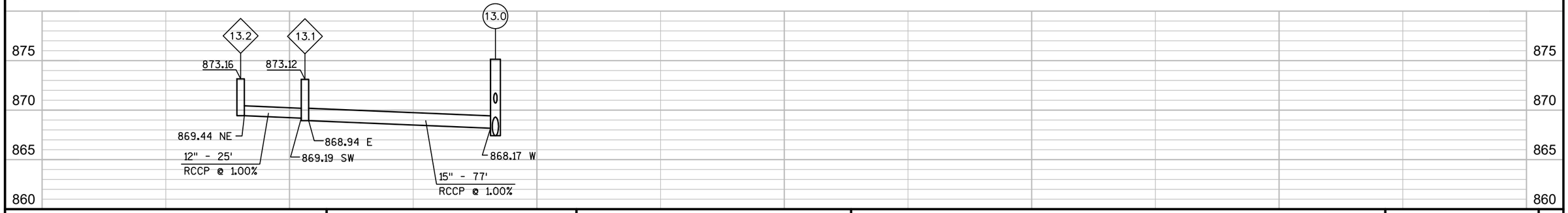




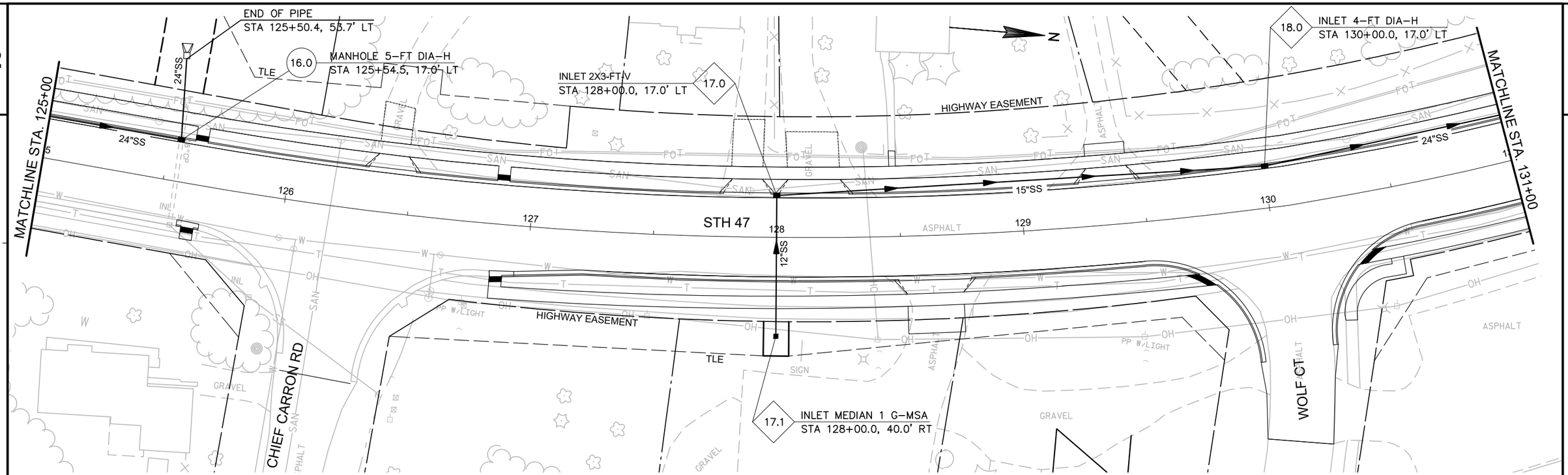
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	STORM SEWER	SHEET 89	E

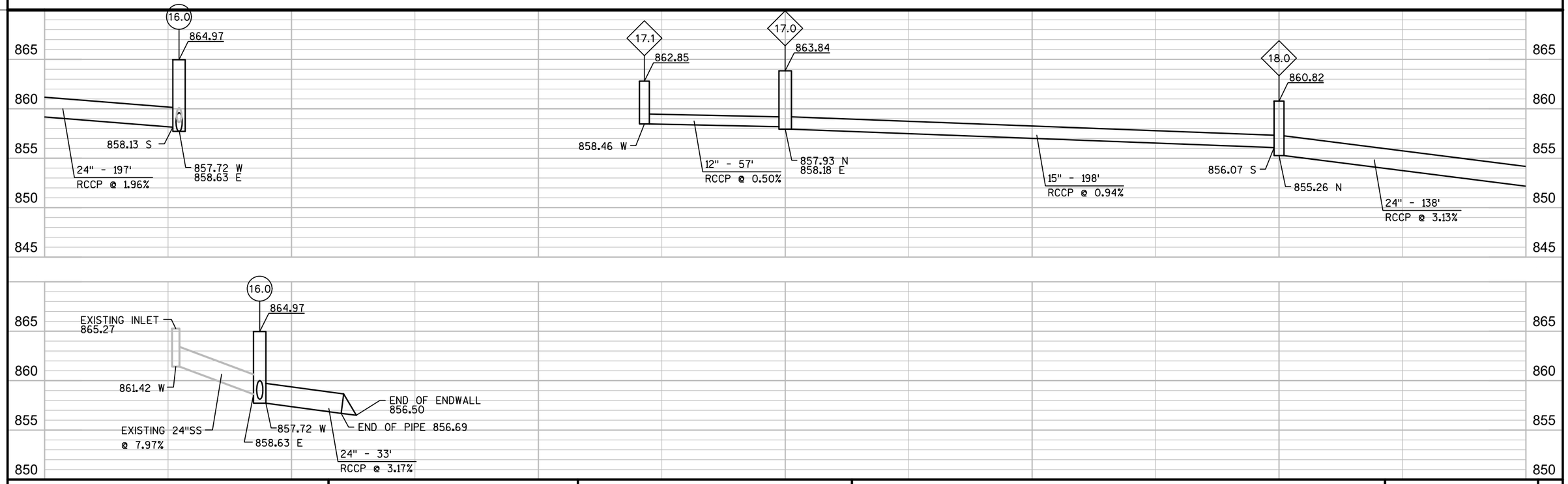




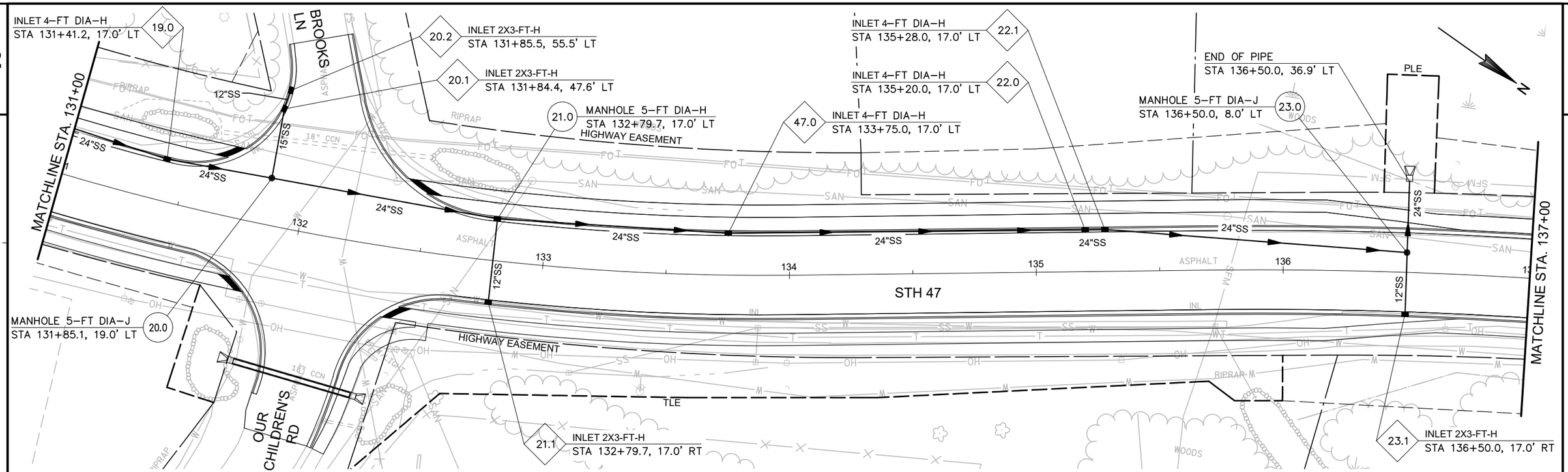


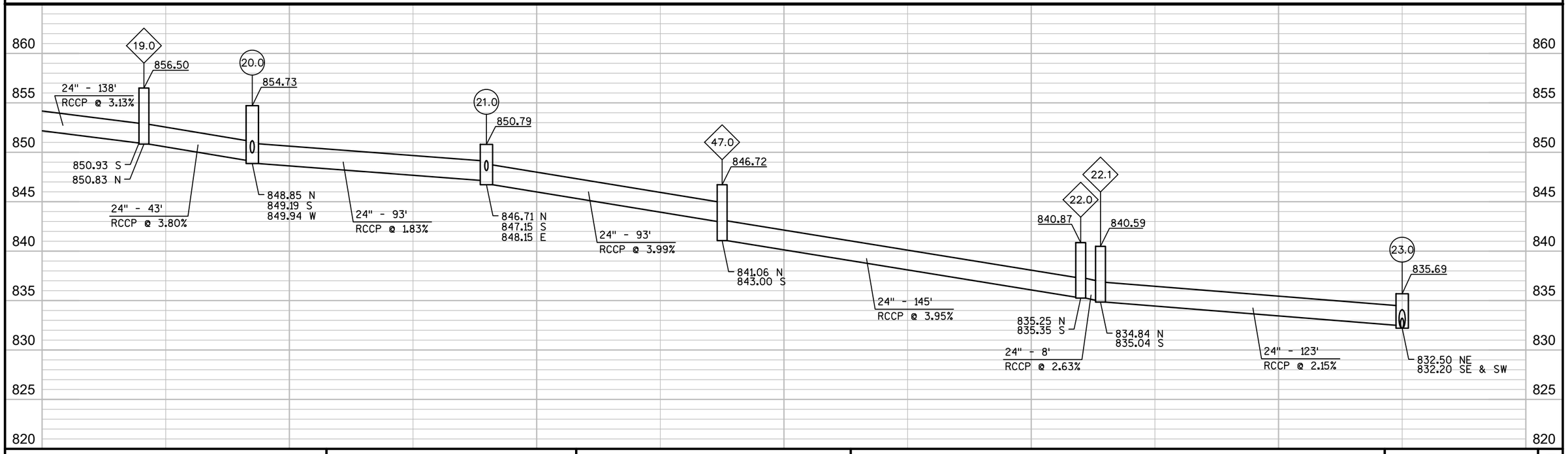
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	STORM SEWER	SHEET 90	E



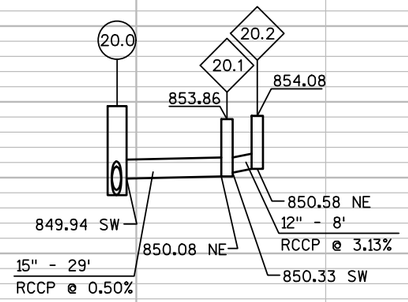


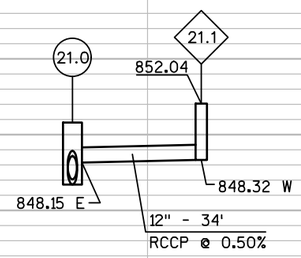
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	STORM SEWER	SHEET 91	E

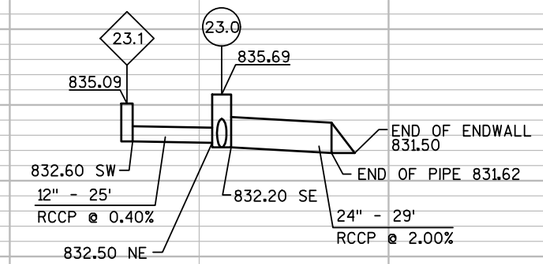




PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	STORM SEWER	SHEET 92	E

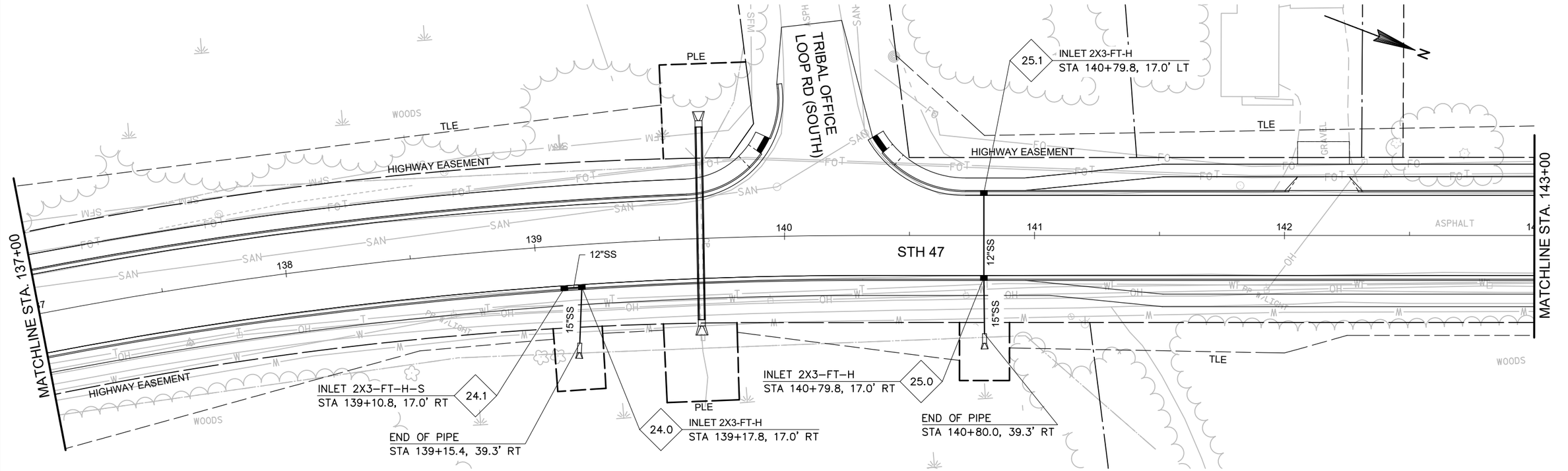


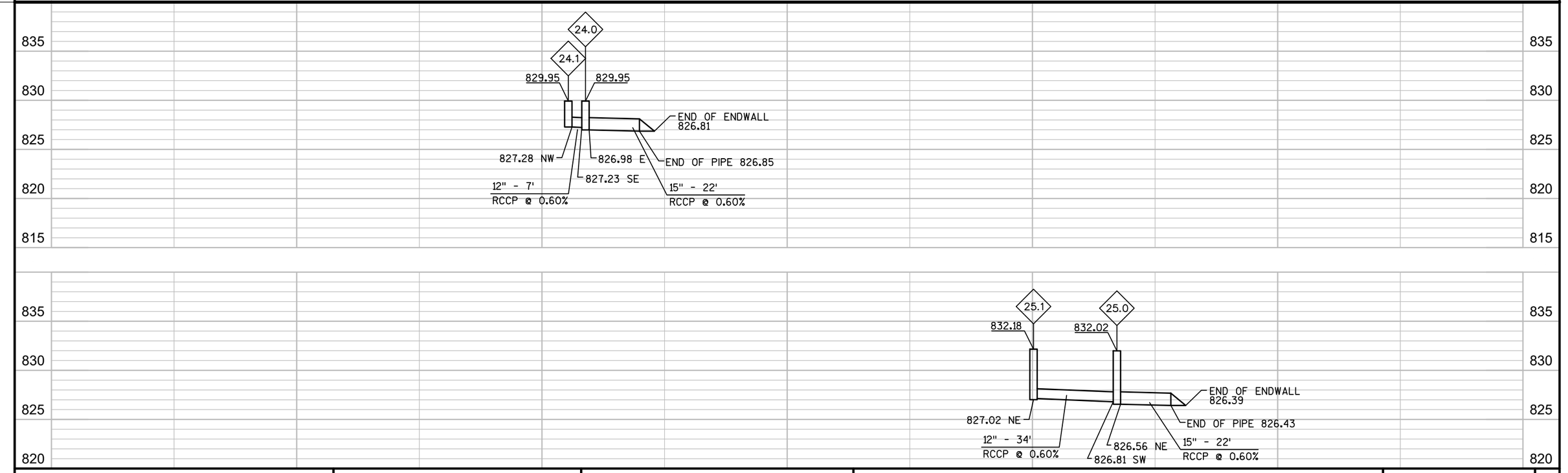




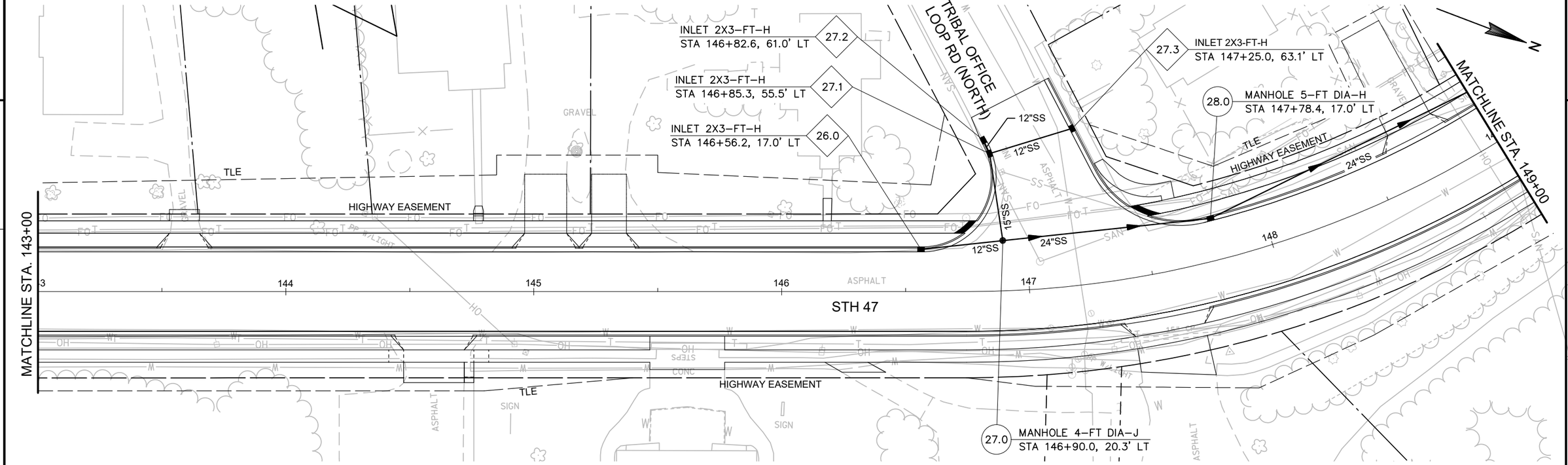
865 860 855 850 845 840 835 830 825 820

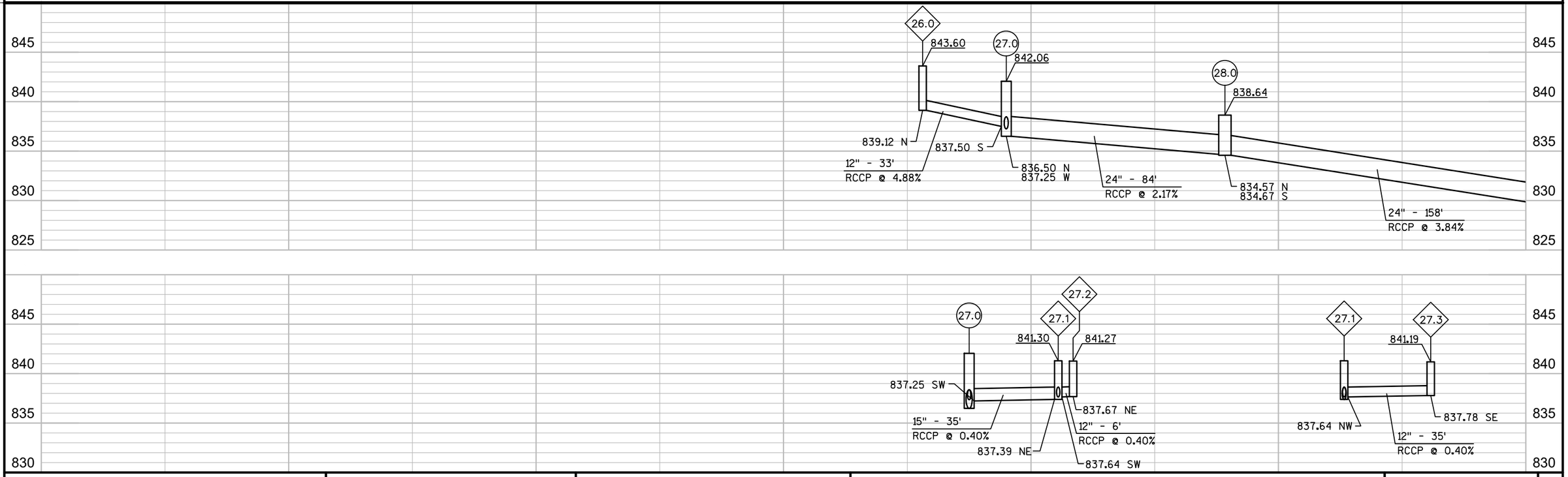
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	STORM SEWER	SHEET 93	E



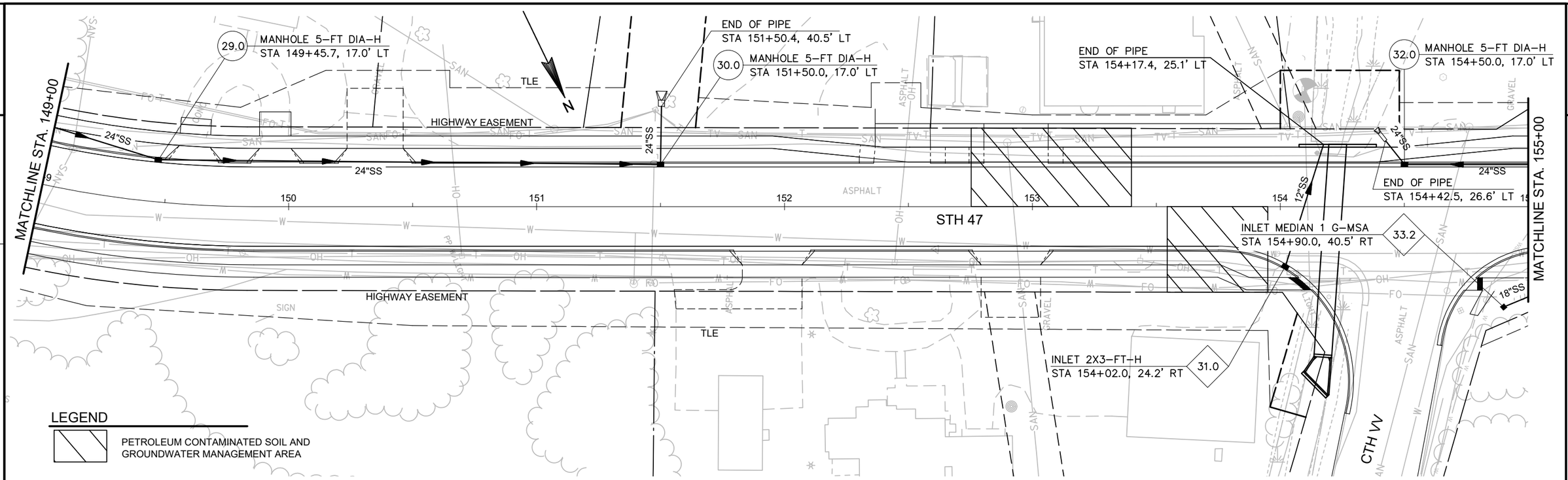


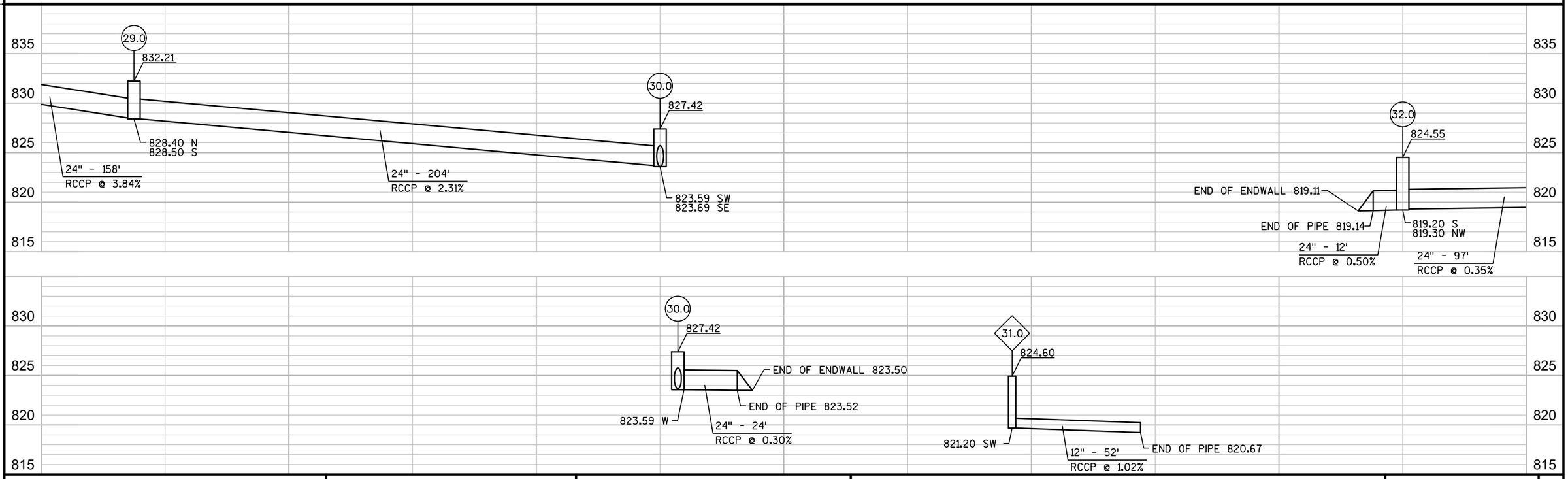
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	STORM SEWER	SHEET 94	E





PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	STORM SEWER	SHEET 95	E

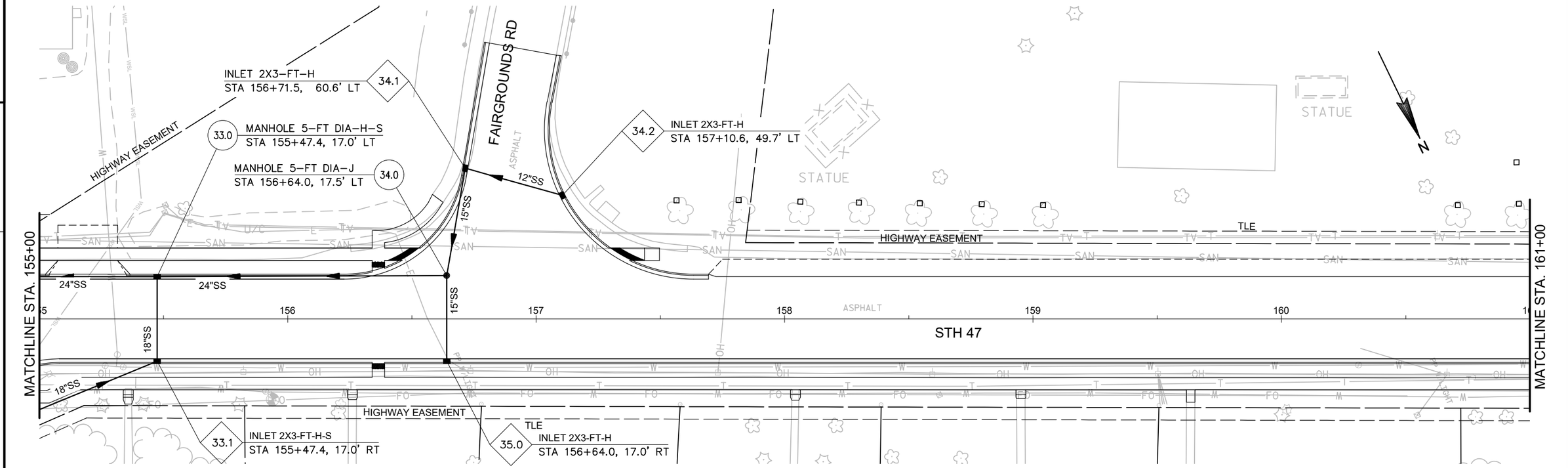


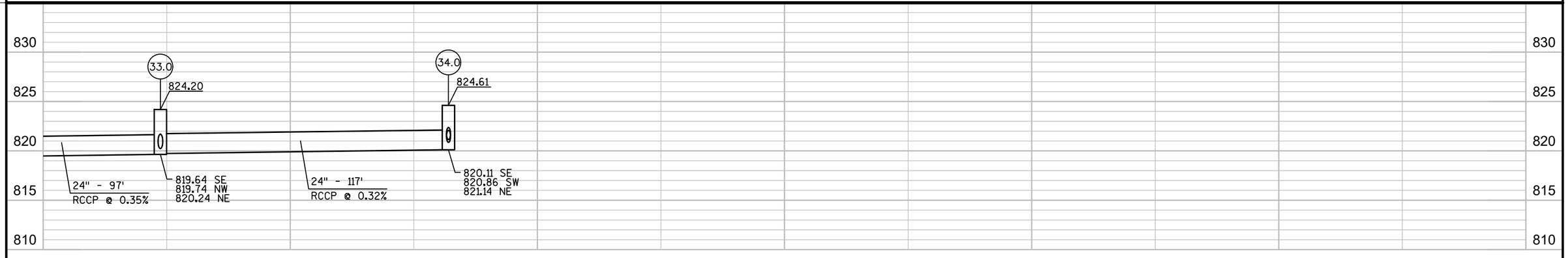


PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	STORM SEWER	SHEET	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0225_SS.DWG PLOT DATE : 1/28/2020 3:05 PM PLOT BY : DOLAN, ISAAC PLOT NAME :

WISDOT/CADDS SHEET 42





PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	STORM SEWER	SHEET 97	E

MATCHLINE STA. 161+00

MANHOLE 5–FT DIA–J
STA 163+15.1, 21.4' LT
36.0

END OF PIPE
STA 163+15.6, 38.4' LT

MANHOLE 4–FT DIA–J
STA 165+14.7, 18.8' LT
37.0

38.0 INLET MEDIAN 1 G–MSA
STA 166+18.0, 30.8' LT

LYONS RD

MATCHLINE STA. 167+00

TLE
HIGHWAY EASEMENT

STH 47

INLET 2X3-FT-H
STA 163+36.6, 17.0' RT
36.1

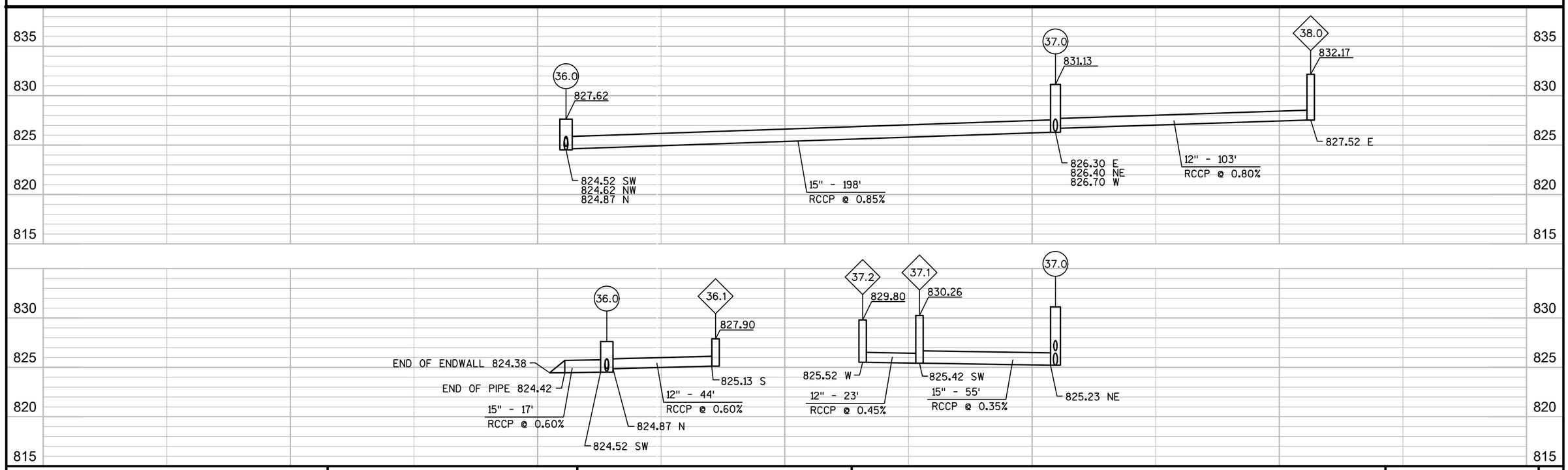
BLACKSMITH RD

37.1 INLET MEDIAN 1 G–MSA
STA 165+11.0, 35.7' RT

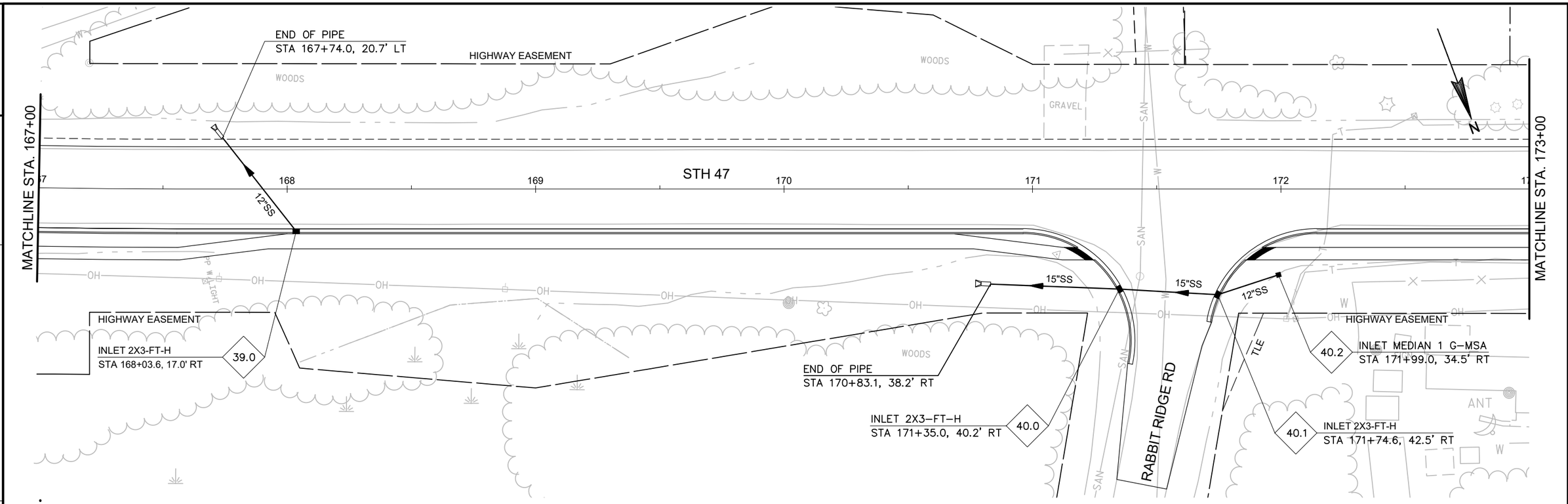
37.2 HIGHWAY EASEMENT
INLET 2X3-FT-H
STA 164+91.2, 45.4' RT

15"SS
12"SS

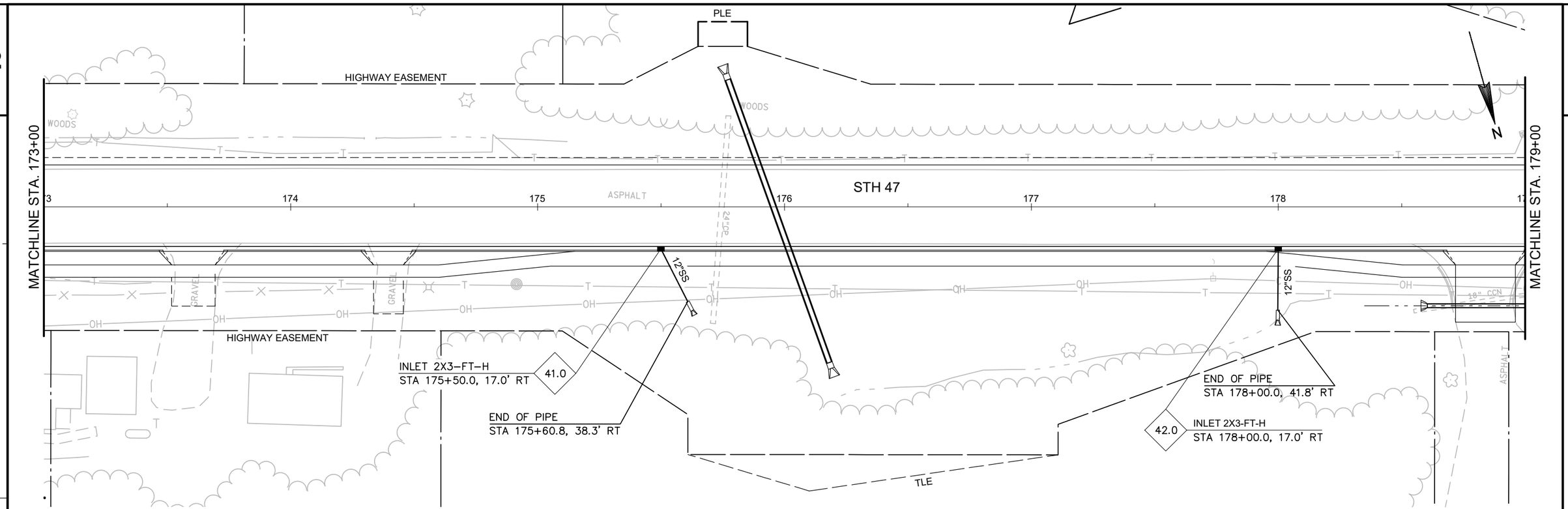
2

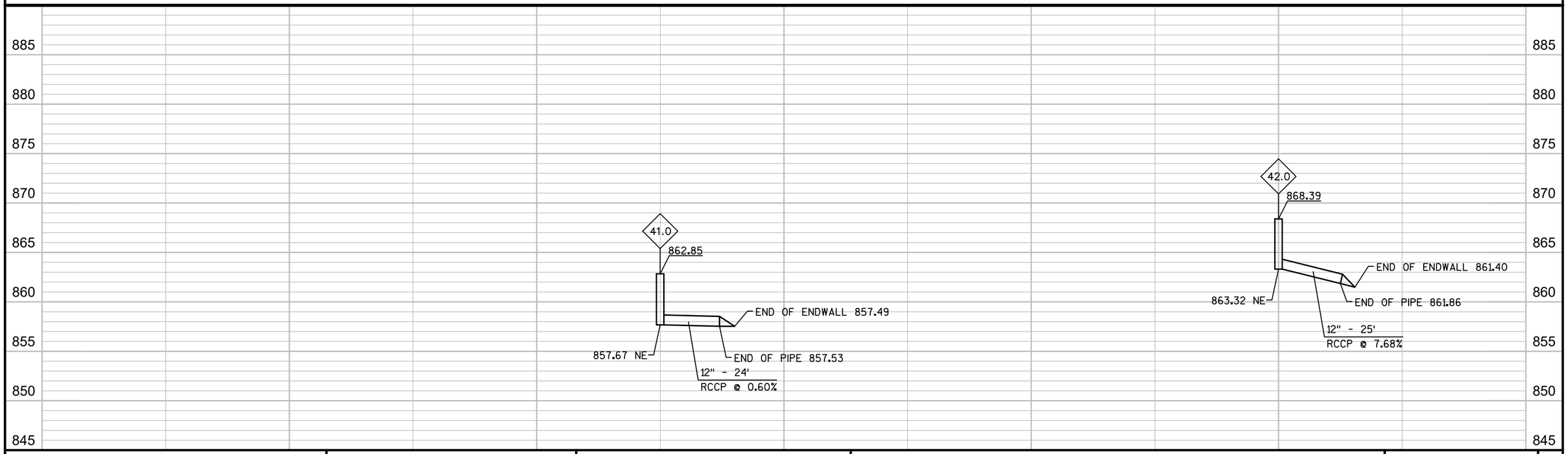


PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	STORM SEWER	SHEET 98	E



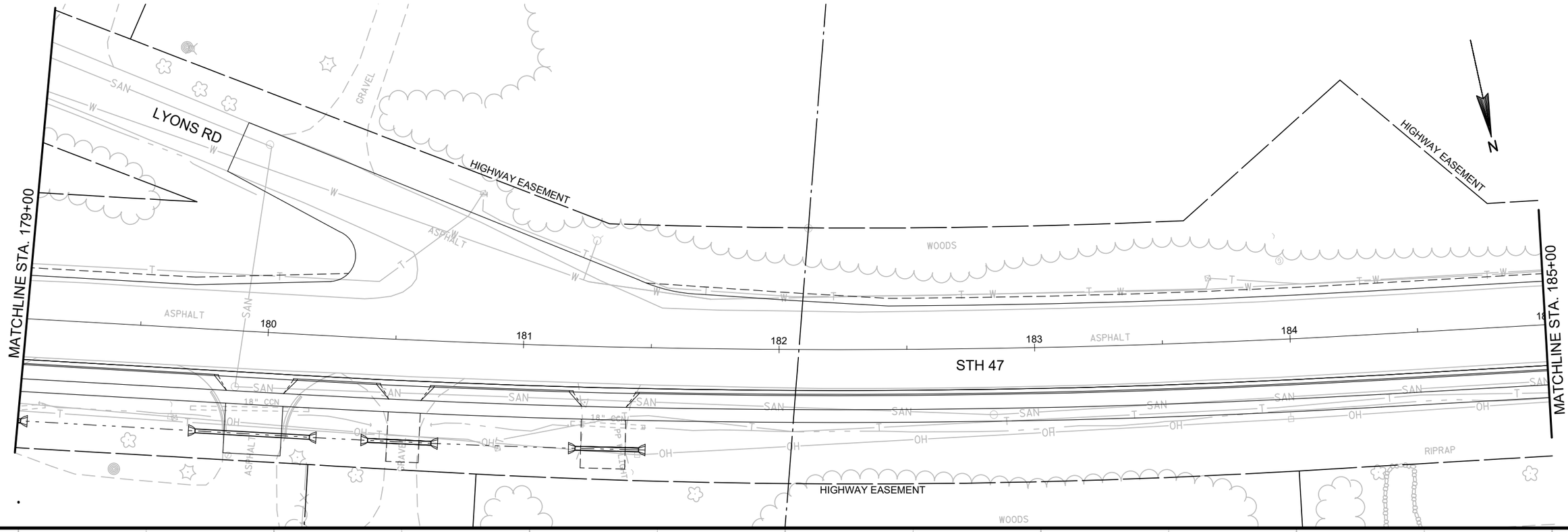
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	STORM SEWER	SHEET 99	E





PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	STORM SEWER	SHEET 100	E

2



890
885
880
875
870
865
860
855
850

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	STORM SEWER	SHEET 101	E

END OF PIPE
STA 185+25.0, 37.9' LT

END OF PIPE
STA 188+79.5, 30.7' LT

HIGHWAY EASEMENT

HIGHWAY EASEMENT

MATCHLINE STA. 185+00

MATCHLINE STA. 191+00

12"SS

12"SS

186 187 188 189 190

STH 47

WOODS

WOODS

SFM

SFM

GRAVEL

LARGE

SAN SAN

OH OH OH OH OH OH OH OH OH OH

SIGN

SIGN

CRAVEL

HIGHWAY EASEMENT

43.0

INLET 2X3-FT-H
STA 185+25.0, 17.0' RT

INLET 2X3-FT-H
STA 188+84.0, 17.0' RT

44.0

TLE

N

2

890 885 880 875 870 865 860 855 850

43.0

876.62

END OF ENDWALL 871.00

871.36 S

12" - 55'
RCCP @ 0.60%

END OF PIPE 871.03

44.0

876.70

END OF ENDWALL
871.50

END OF PIPE 871.53

871.82 S

12" - 48'
RCCP @ 0.60%

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	STORM SEWER	SHEET 102	E

END OF PIPE
STA 191+12.7, 27.9' LT

END OF PIPE
STA 195+56.2, 31.3' LT

HIGHWAY EASEMENT

ASPHALT

WOLF RIVER DR

MATCHLINE STA. 191+00

MATCHLINE STA. 197+00

12"SS

STH 47

ROCK

SIGN

TILE

OH

HIGHWAY EASEMENT

45.0 INLET 2X3-FT-H
STA 191+25.0, 17.0' RT

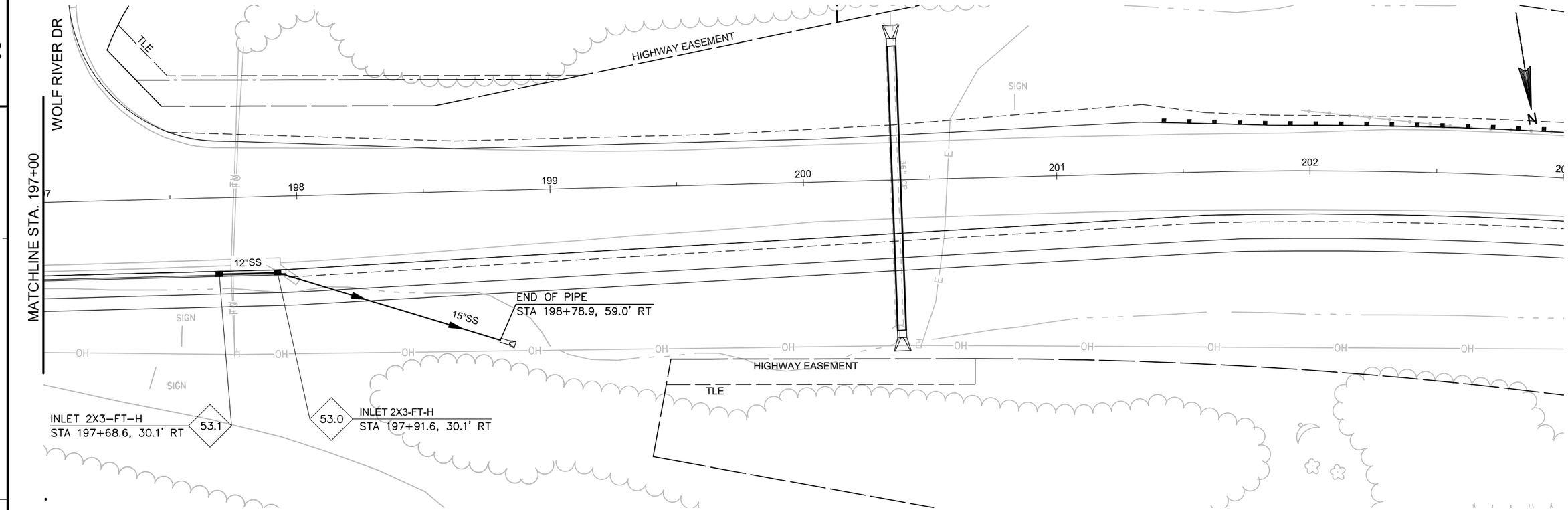
INLET 2X3-FT-H
STA 195+50.0, 30.0' RT 46.0

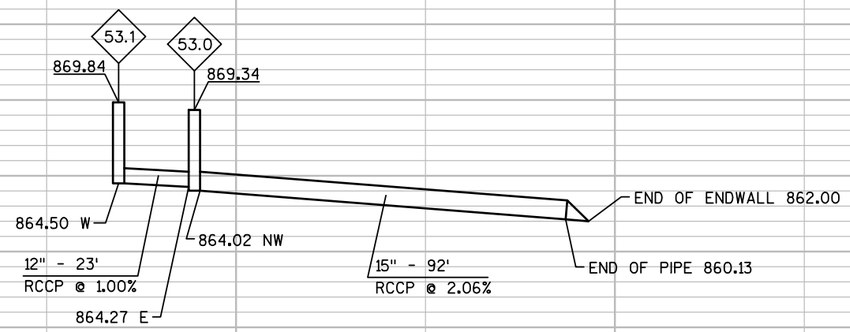
45.0
876.02
872.27 SE
END OF ENDWALL
872.03
END OF PIPE 872.06
12" - 47'
RCCP @ 0.45%

46.0
873.51
869.32 SW
END OF ENDWALL
869.01
END OF PIPE 869.04
12" - 62'
RCCP @ 0.45%

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	STORM SEWER	SHEET 103 E

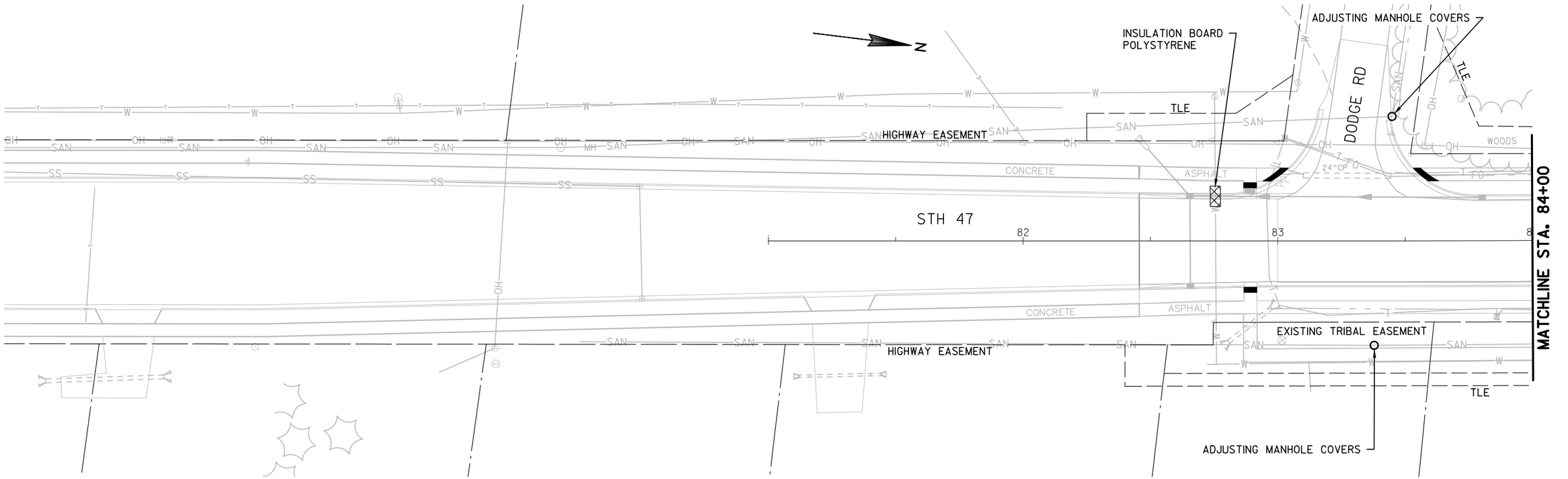
2

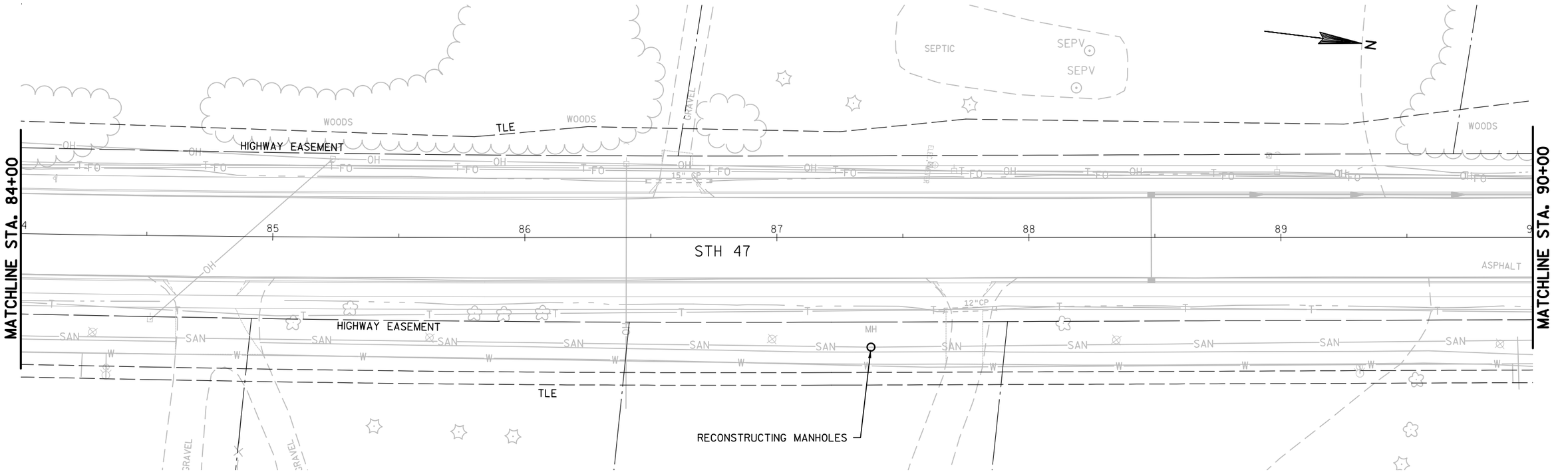




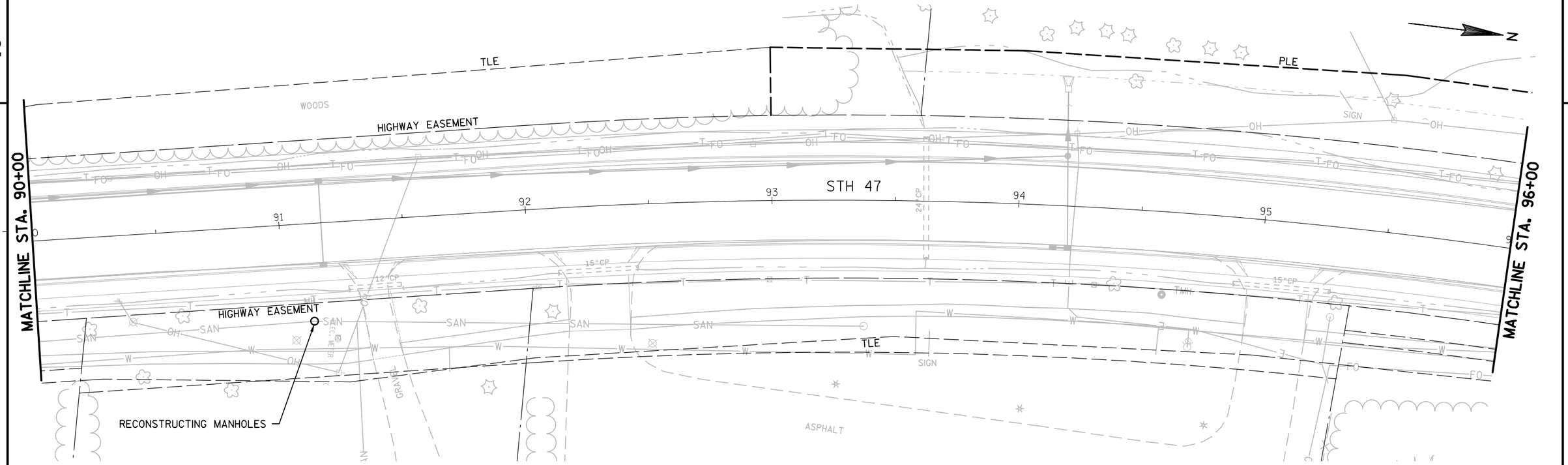
890 885 880 875 870 865 860 855 850

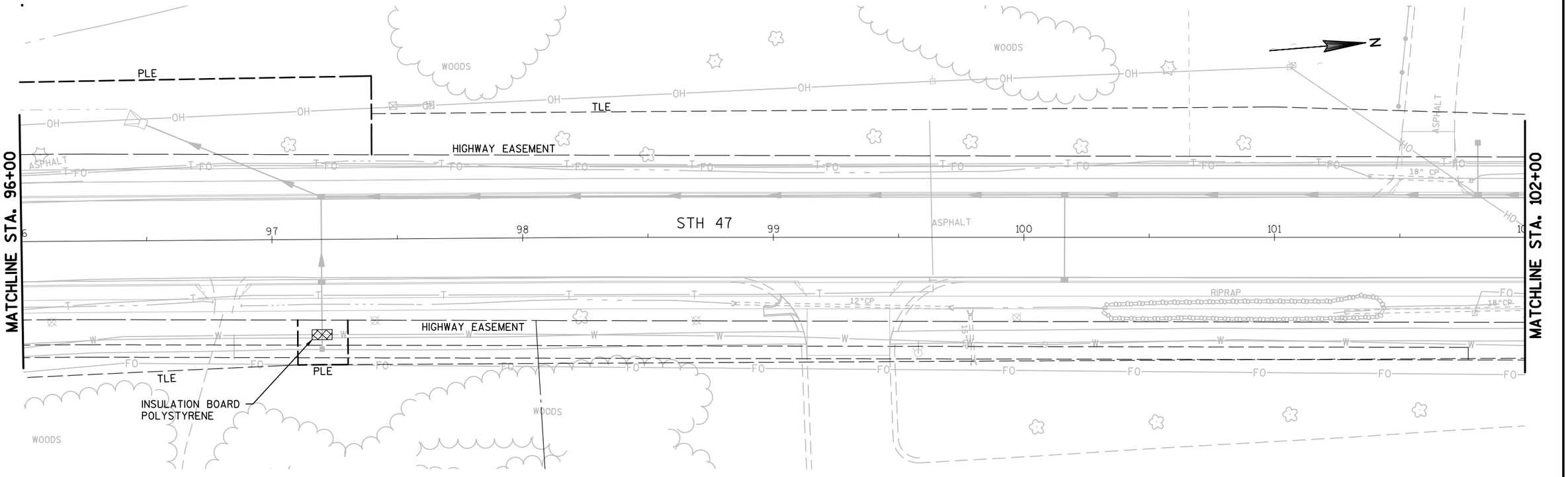
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	STORM SEWER	SHEET 104	E





PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	UTILITY IMPROVEMENTS	SHEET 105	E


TLE
PLE
WOODS
HIGHWAY EASEMENT
STH 47
MATCHLINE STA. 90+00
MATCHLINE STA. 96+00
91
92
93
94
95
24"CP
15"CP
12"CP
HIGHWAY EASEMENT
RECONSTRUCTING MANHOLES
SAN
TLE
SIGN
TMH
ASPHALT
GRAVEL
N


PLE
TLE
WOODS
HIGHWAY EASEMENT
STH 47
MATCHLINE STA. 96+00
MATCHLINE STA. 102+00
97
98
99
100
101
ASPHALT
RIPRAP
18" CP
12"CP
HIGHWAY EASEMENT
PLE
TLE
INSULATION BOARD
POLYSTYRENE
N

2

MATCHLINE STA. 102+00

MATCHLINE STA. 108+00

REMOVING WATER MAIN VALVE BOX

ADJUSTING WATER MAIN VALVE BOX

INSULATION BOARD POLYSTYRENE

INSULATION BOARD POLYSTYRENE

ADJUSTING MANHOLE COVERS

INSULATION BOARD POLYSTYRENE

INSULATION BOARD POLYSTYRENE

103+38.9, 25.8' RT
6" VALVE & VALVE BOX

103+48.9, 25.9' RT
6" X 45° BEND (VERT)

103+47.4, 25.9' RT
6" X 45° BEND (VERT)

103+42.4, 25.9' RT
6" X 45° BEND (VERT)

103+40.9, 25.8' RT
6" X 45° BEND (VERT)

103+29.2, 31.3' RT
SALVAGED HYDRANT
TRACER WIRE ACCESS BOX
6" VALVE & VALVE BOX
5' - 6" WM
6" X 6" TAPPING SLEEVE

SALVAGE HYDRANT
CAP WATER MAIN TO REMAIN IN SERVICE

INSULATION BOARD POLYSTYRENE

TLE

HIGHWAY EASEMENT

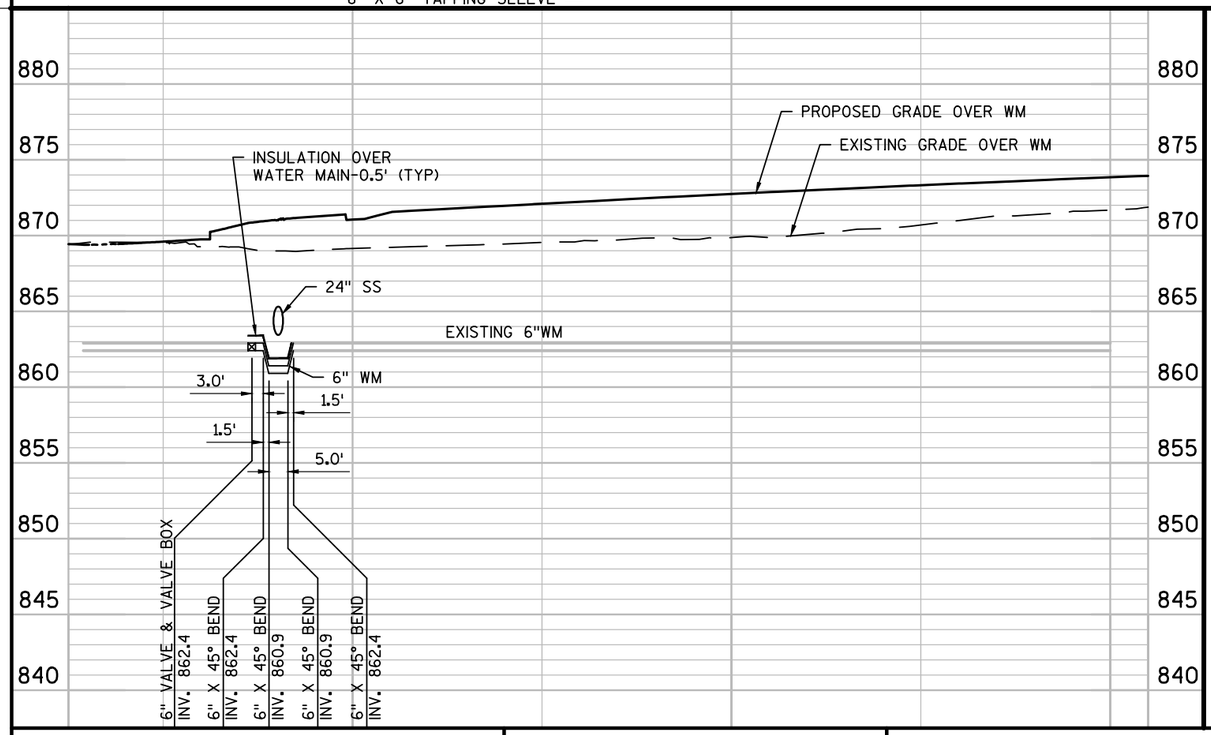
STH 47

ASPHALT

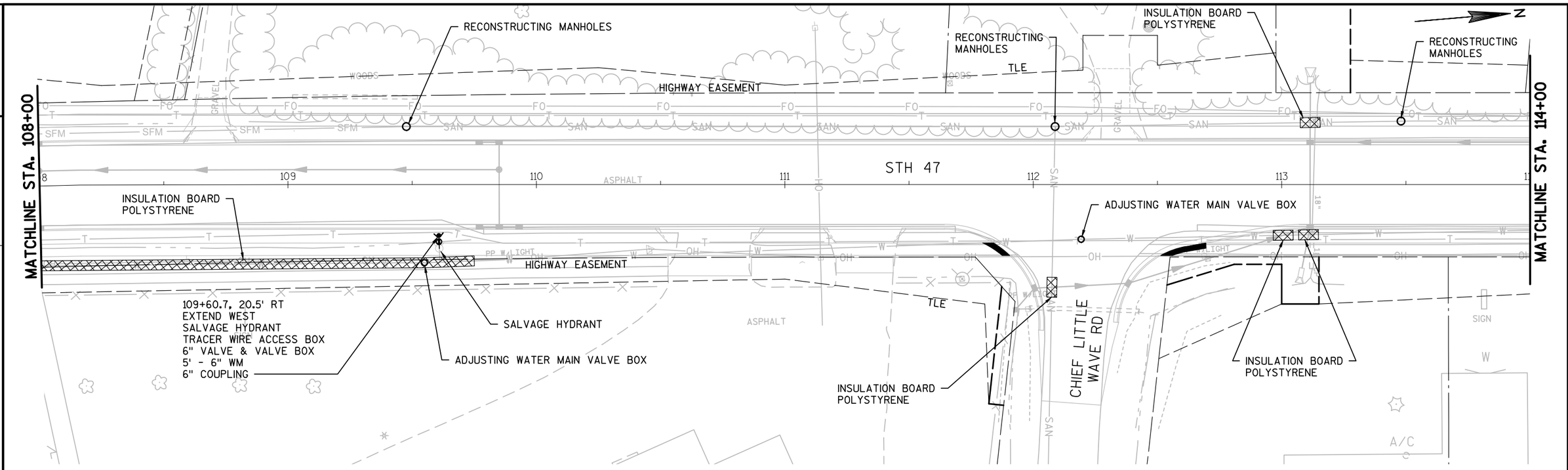
WARRINGTON RD

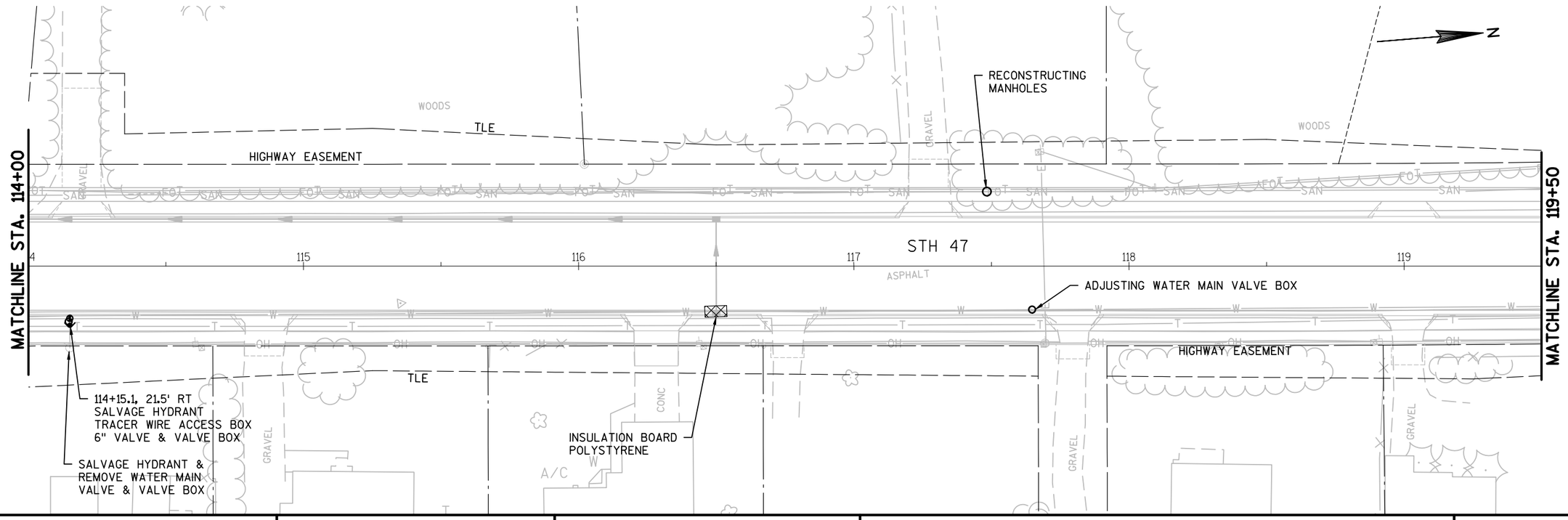
12"X18"CP

24" CP



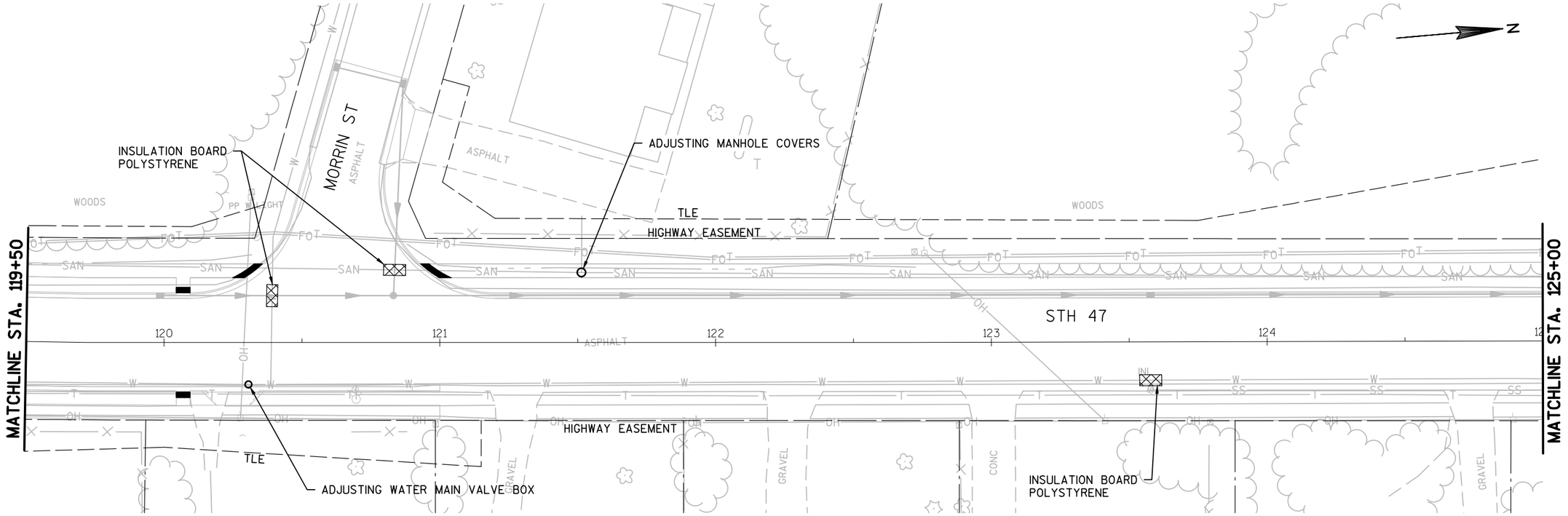
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	UTILITY IMPROVEMENTS	SHEET 107	E



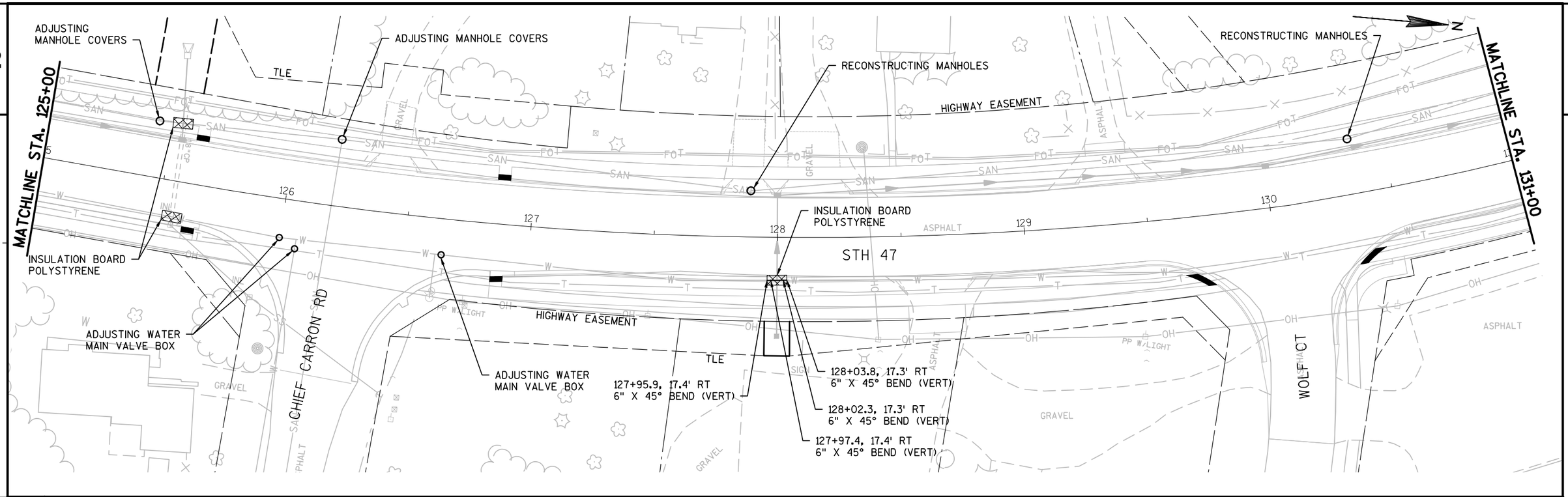


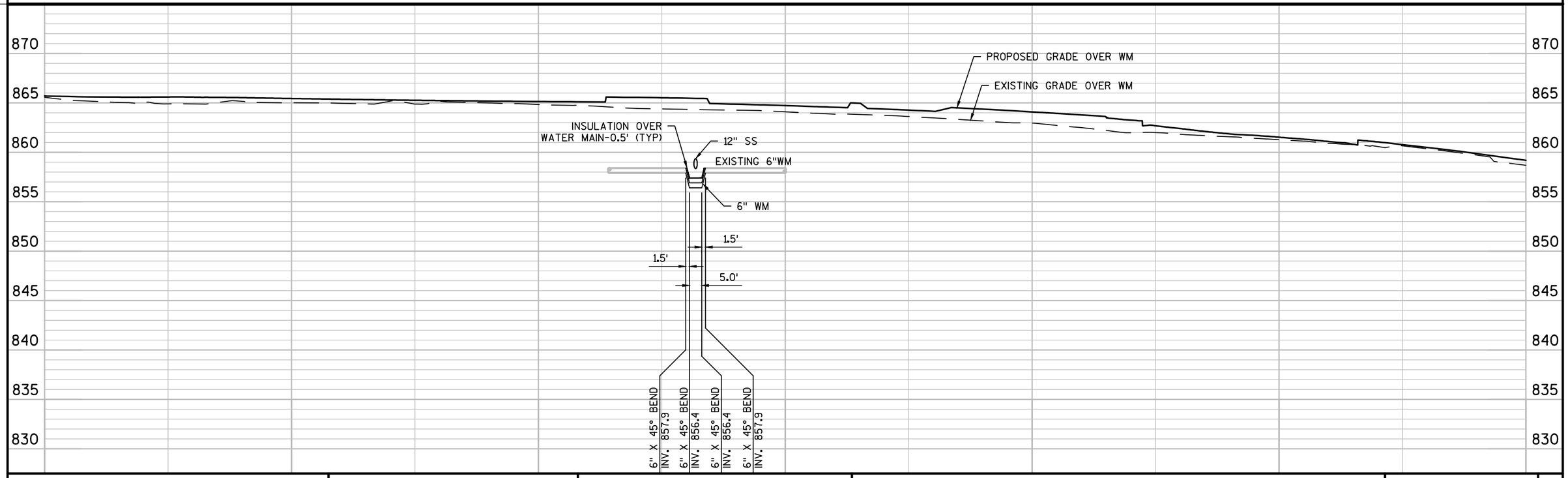
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	UTILITY IMPROVEMENTS	SHEET 108	E

2



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	UTILITY IMPROVEMENTS	SHEET 109	E





PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	UTILITY IMPROVEMENTS	SHEET 110	E

2

2

INSULATION BOARD POLYSTYRENE

MATCHLINE STA. 131+00

BROOKS LN

ADJUSTING MANHOLE COVERS

HIGHWAY EASEMENT

RECONSTRUCTING MANHOLES

PLE

ABANDONED WATER MAIN

ABANDONING WATER MAIN VALVE BOX

STH 47

INSULATION BOARD POLYSTYRENE

MATCHLINE STA. 137+00

ADJUSTING WATER MAIN VALVE BOX

OUR CHILDREN'S RD

HIGHWAY EASEMENT

TLE

MATCHLINE STA. 137+00

TRIBAL OFFICE LOOP RD (SOUTH)

PLE

INSULATION BOARD POLYSTYRENE

TLE

HIGHWAY EASEMENT

ADJUSTING MANHOLE COVERS

STH 47

ABANDONED WATER MAIN

TLE

HIGHWAY EASEMENT

PLE

INSULATION BOARD POLYSTYRENE

INSULATION BOARD POLYSTYRENE

ADJUSTING HYDRANT

ADJUSTING WATER MAIN VALVE BOX

MATCHLINE STA. 143+00

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	UTILITY IMPROVEMENTS	SHEET 111	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0230_UP.DWG PLOT DATE : 1/28/2020 3:18 PM PLOT BY : DOLAN, ISAAC PLOT NAME :

WISDOT/CADDS SHEET 42

2

MATCHLINE STA. 143+00

TLE

HIGHWAY EASEMENT

ADJUSTING MANHOLE COVERS

TRIBAL OFFICE LOOP RD (NORTH)

ABANDONED WATER MAIN

INSULATION BOARD POLYSTYRENE

INSULATION BOARD POLYSTYRENE

TLE

HIGHWAY EASEMENT

MATCHLINE STA. 149+00

ABANDONED WATER MAIN

STH 47

ABANDONING WATER MAIN VALVE BOX

HIGHWAY EASEMENT

TLE

ABANDONING WATER MAIN VALVE BOX

ADJUSTING WATER MAIN VALVE BOX

MATCHLINE STA. 149+00

INSULATION BOARD POLYSTYRENE

RECONSTRUCTING MANHOLES

TLE

INSULATION BOARD POLYSTYRENE

HIGHWAY EASEMENT

ADJUSTING MANHOLE COVERS

ABANDONED WATER MAIN

ADJUSTING MANHOLE COVERS

ADJUSTING MANHOLE COVERS

STH 47

INSULATION BOARD POLYSTYRENE

HIGHWAY EASEMENT

TLE

ADJUSTING WATER MAIN VALVE BOX
VALVE BOX EXTENSION REQUIRED

ADJUST HYDRANT
HYDRANT EXTENSION REQUIRED

ABANDONING WATER MAIN VALVE BOX

CTH VV

ABANDONED WATER MAIN

ADJUSTING WATER MAIN VALVE BOX
VALVE BOX EXTENSION REQUIRED

MATCHLINE STA. 155+00

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	UTILITY IMPROVEMENTS	SHEET	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0230_UP.DWG PLOT DATE : 1/30/2020 9:20 AM PLOT BY : DAY, JOHN PLOT NAME :

WISDOT/CADDS SHEET 42

2

ABANDONED WATER MAIN

HIGHWAY EASEMENT

INSULATION BOARD POLYSTYRENE

FAIRGROUNDS RD

ASPHALT

STATUE

STATUE

N

TLE

HIGHWAY EASEMENT

MATCHLINE STA. 155+00

ABANDONING WATER MAIN VALVE BOX

155

156

157

158

ASPHALT

159

160

161

STH 47

ABANDONED WATER MAIN

MATCHLINE STA. 161+00

HIGHWAY EASEMENT

TLE

ADJUSTING WATER MAIN VALVE BOX

ADJUSTING HYDRANT

INSULATION BOARD POLYSTYRENE

ADJUSTING MANHOLE COVERS

INSULATION BOARD POLYSTYRENE

WOODS

RECONSTRUCTING MANHOLES

LYONS RD

ASPHALT

N

MATCHLINE STA. 161+00

TLE

HIGHWAY EASEMENT

ASPHALT

161

162

163

164

165

166

STH 47

ABANDONED WATER MAIN

ADJUSTING WATER MAIN VALVE BOX

ADJUSTING HYDRANT

ABANDONING WATER MAIN VALVE BOX

INSULATION BOARD POLYSTYRENE

BLACKSMITH RD

ASPHALT

WOODS

HIGHWAY EASEMENT

TLE

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	UTILITY IMPROVEMENTS	SHEET 113	E

2

HIGHWAY EASEMENT

ABANDONED WATER MAIN

WOODS

WOODS

GRAVEL

SAN

W

MATCHLINE STA. 167+00

MATCHLINE STA. 173+00

N

7

168

169

STH 47

170

171

172

OH

PP W/ LIGHT

HIGHWAY EASEMENT

HIGHWAY EASEMENT

ADJUSTING MANHOLE COVERS

INSULATION BOARD
POLYSTYRENE

RABBIT RIDGE RD

TLE

SIGN

ANT

2

PLE

HIGHWAY EASEMENT

WOODS

WOODS

MATCHLINE STA. 173+00

MATCHLINE STA. 179+00

N

3

174

175

ASPHALT

176

STH 47

177

178

24" CP

GRAVEL

GRAVEL

OH

HIGHWAY EASEMENT

18" CCN

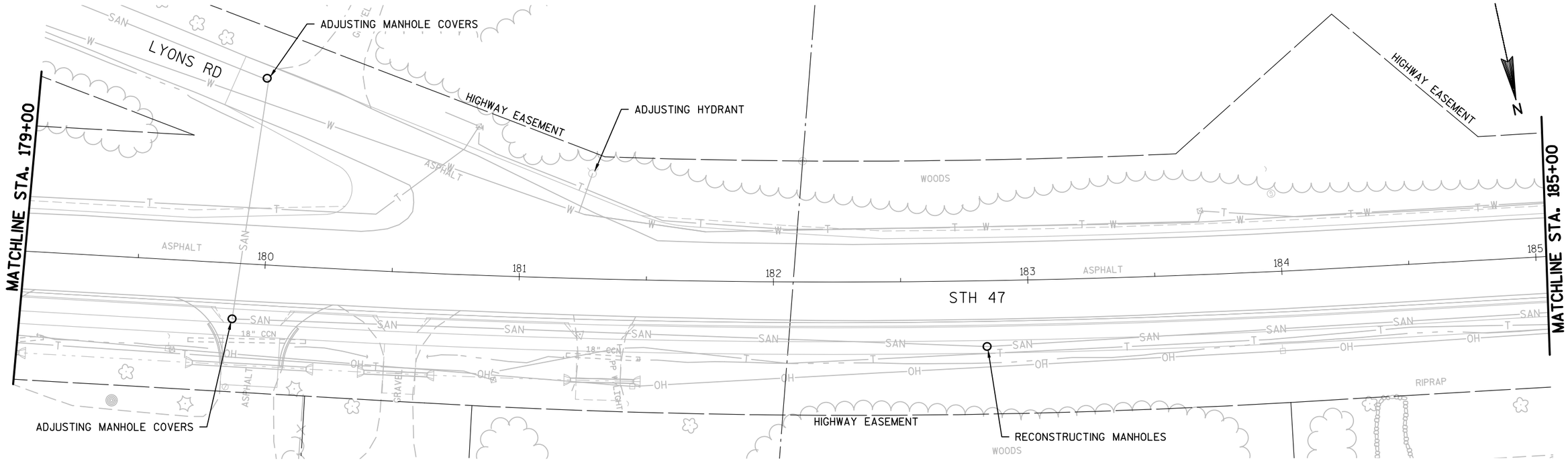
ASPHALT

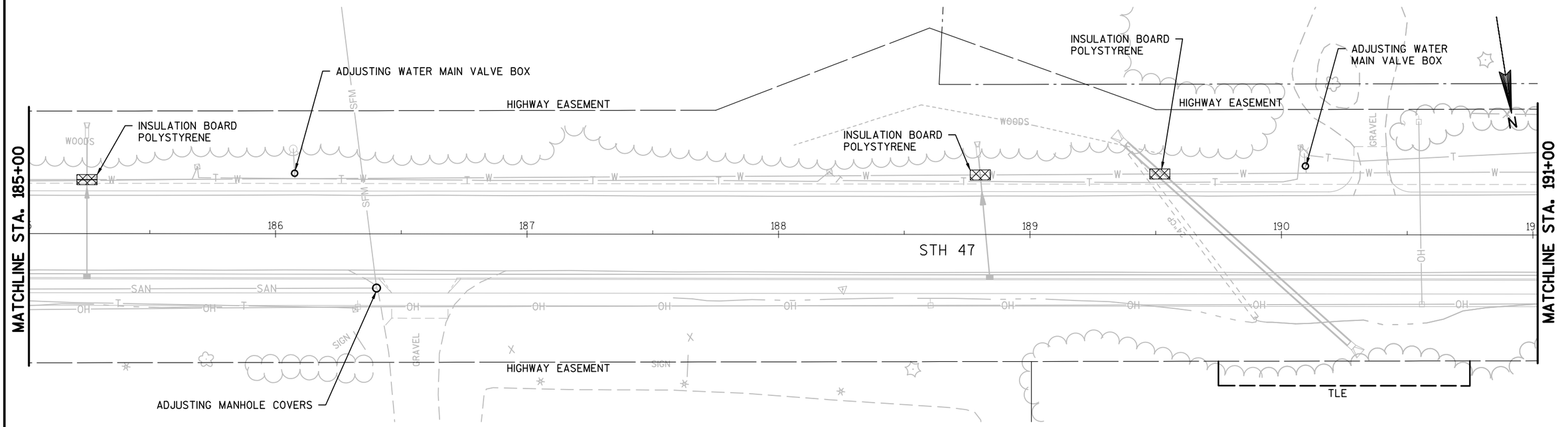
TLE

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	UTILITY IMPROVEMENTS	SHEET 114	E

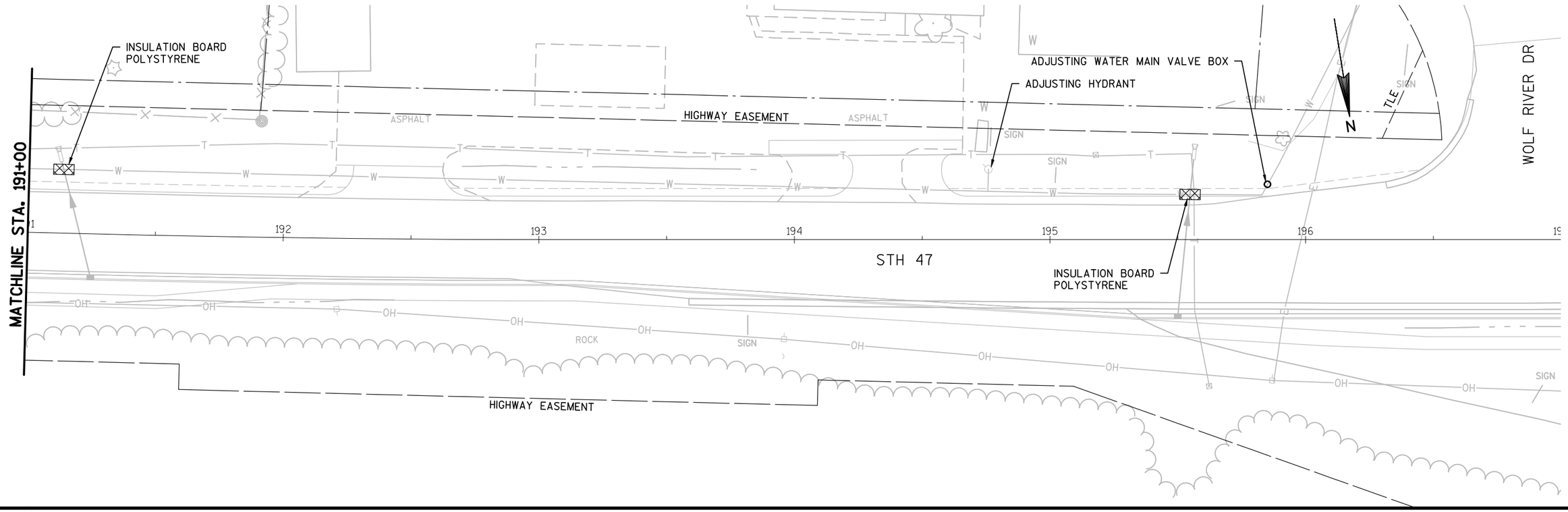
FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0230_UP.DWG PLOT DATE : 1/28/2020 3:19 PM PLOT BY : DOLAN, ISAAC PLOT NAME :

WISDOT/CADDS SHEET 42





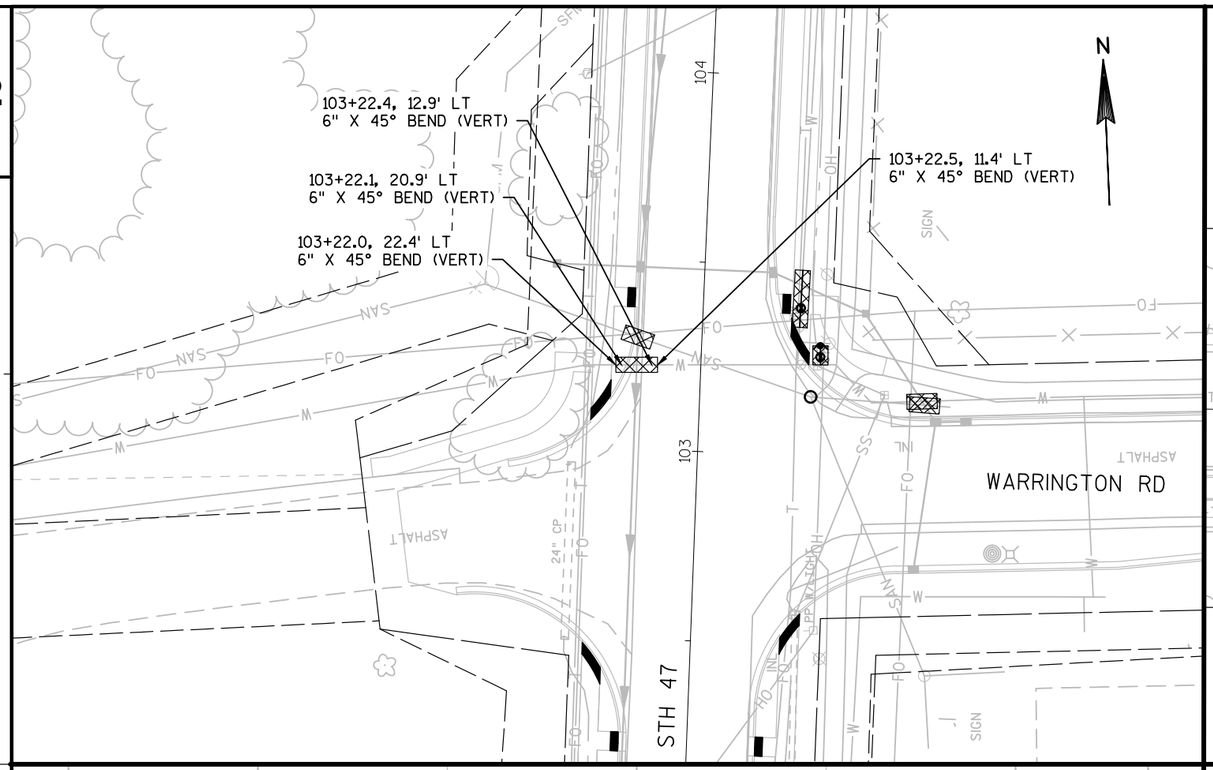
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	UTILITY IMPROVEMENTS	SHEET 115	E

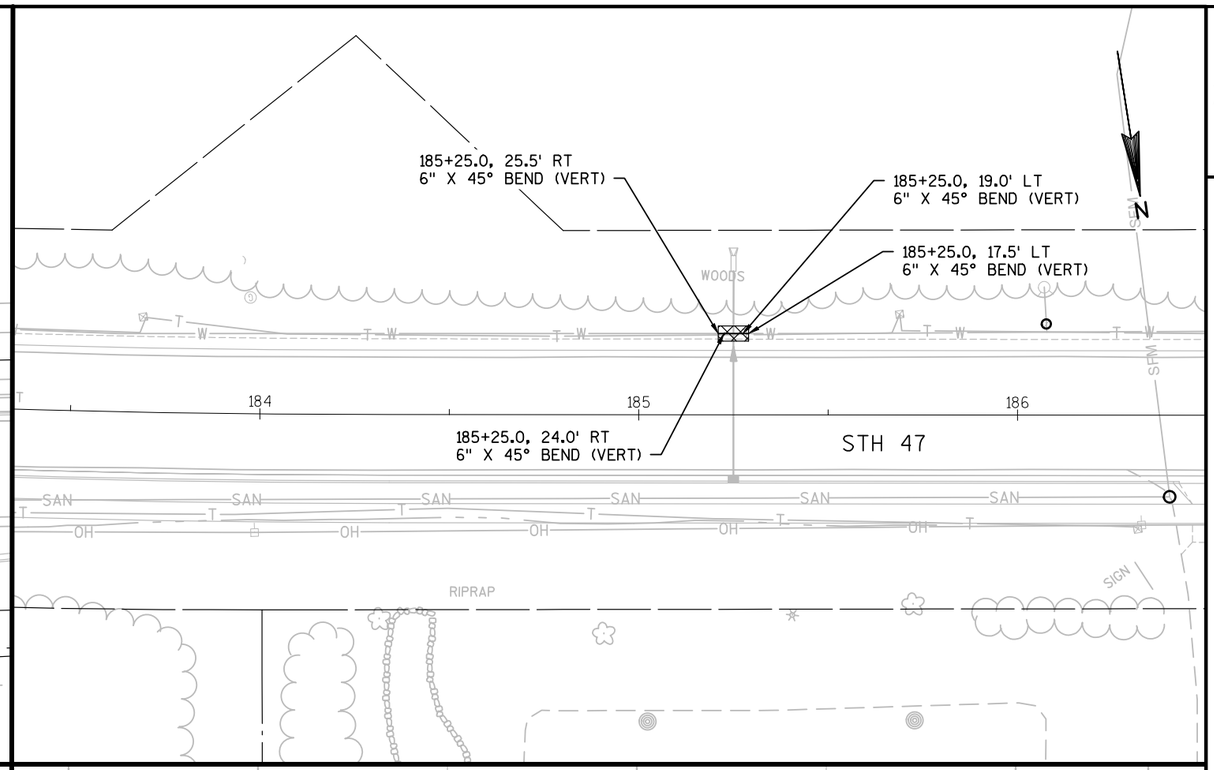


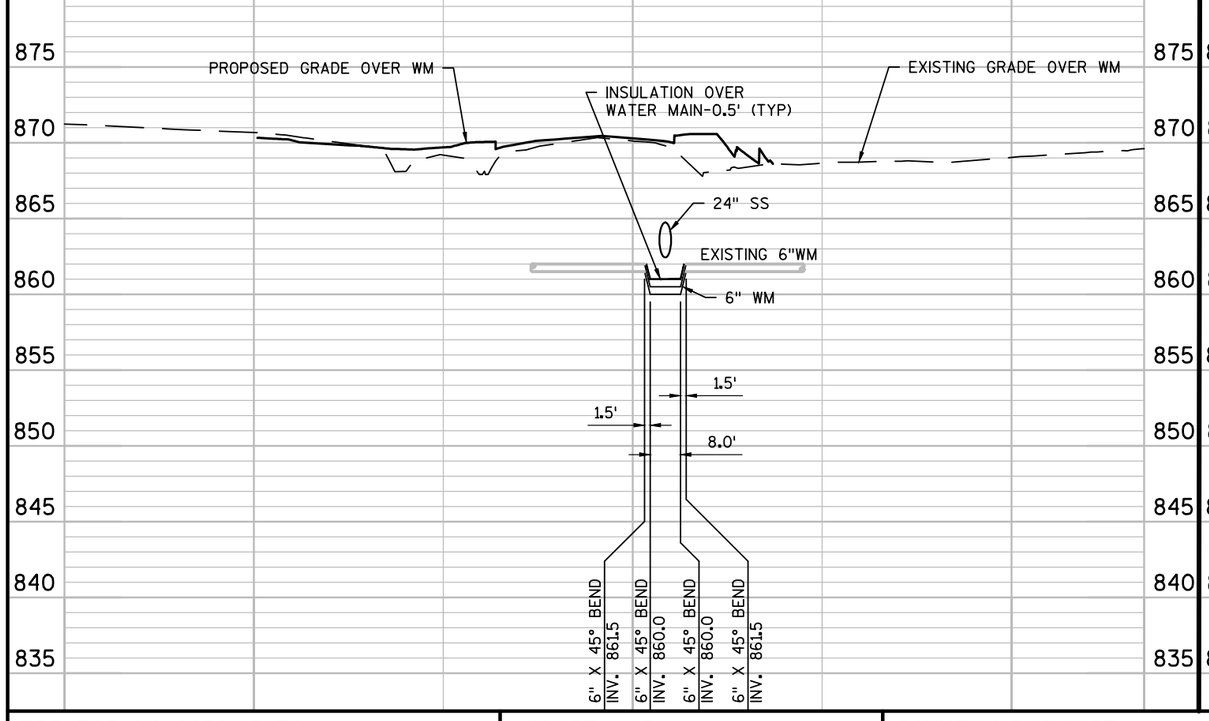
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	UTILITY IMPROVEMENTS	SHEET 116	E

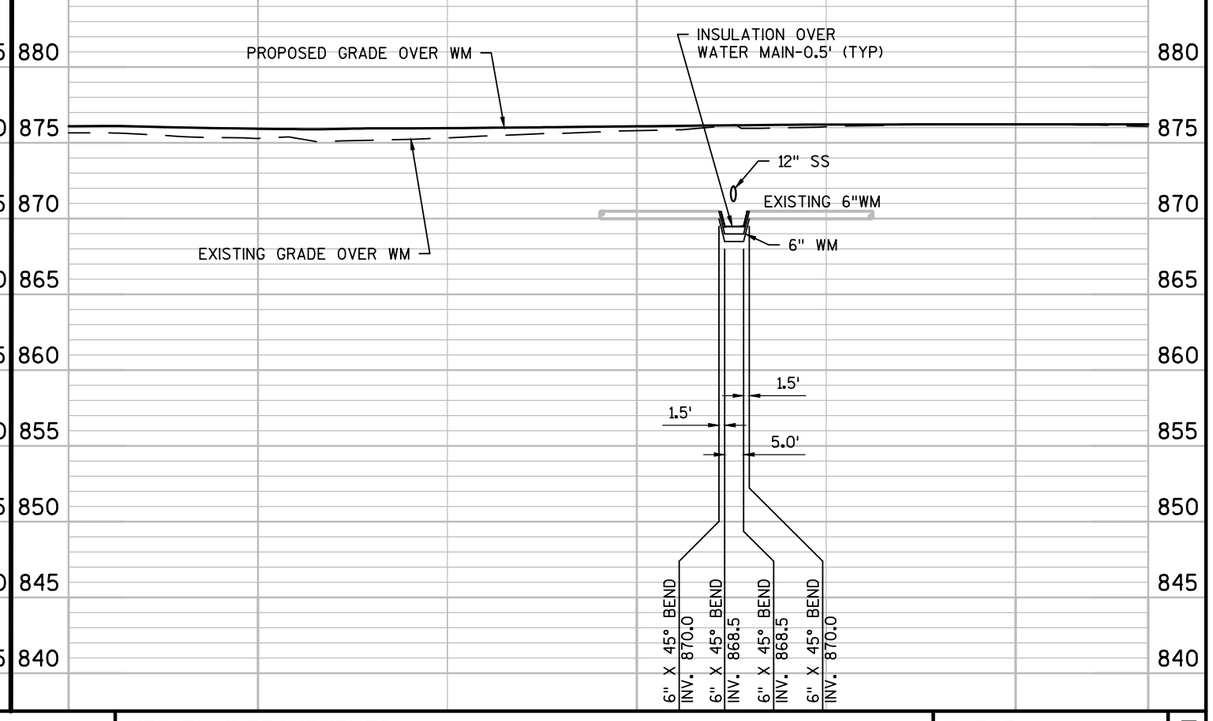
FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0230_UP.DWG PLOT DATE : 1/28/2020 3:20 PM PLOT BY : DOLAN, ISAAC PLOT NAME :

WISDOT/CADDS SHEET 42

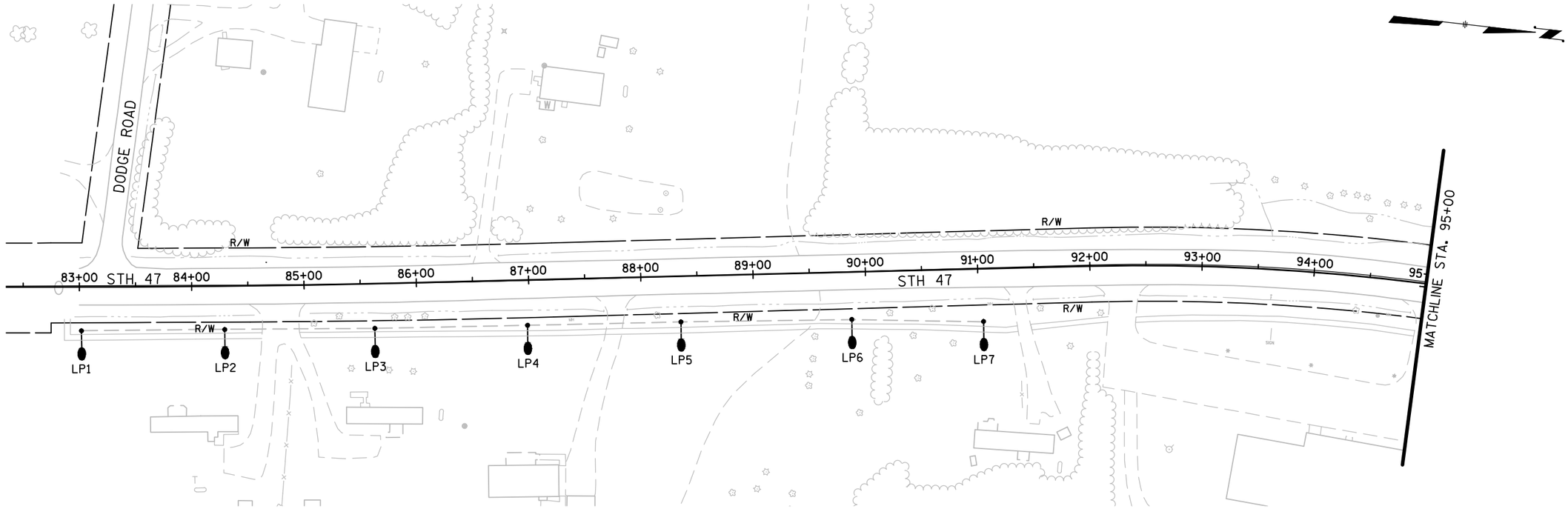


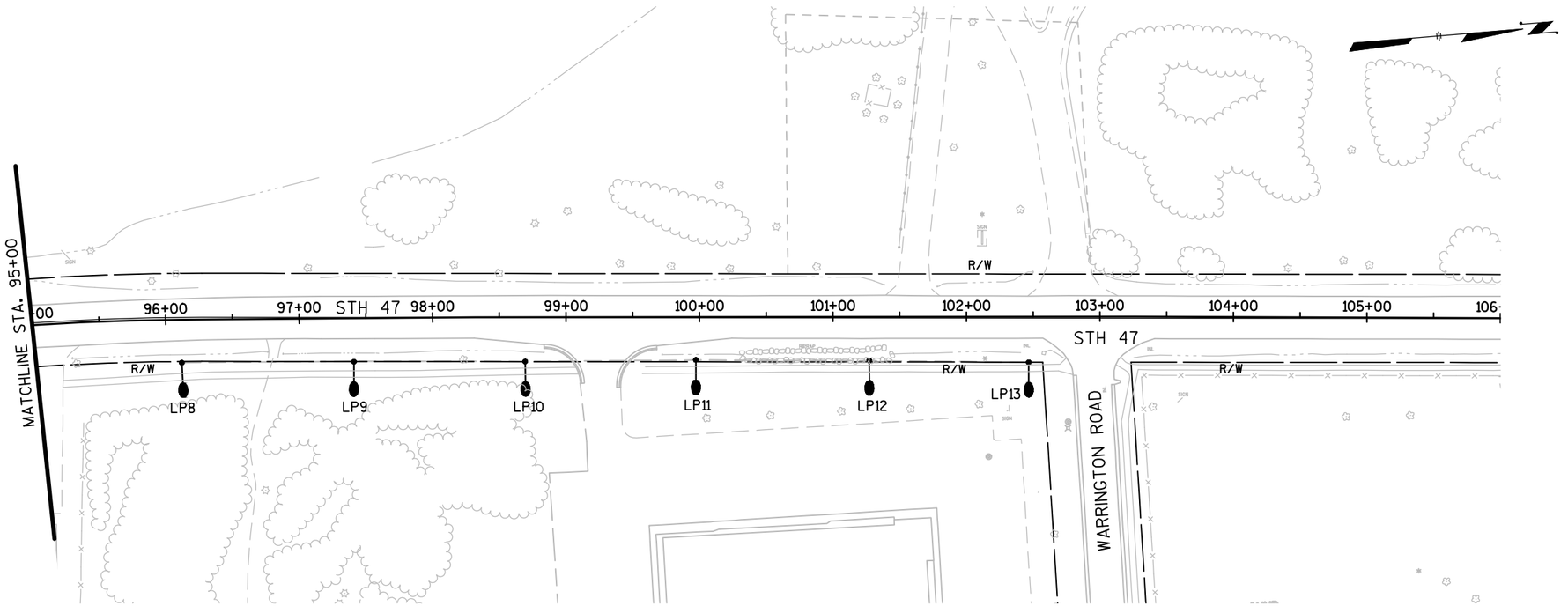






PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	UTILITY IMPROVEMENTS	SHEET 117 E





LEGEND

- NONMETALLIC CONDUIT 2-INCH UNLESS OTHERWISE NOTED
- CITY STANDARD LIGHTING ASSEMBLY LED REMOVE AND SALVAGE. SEE SPECIFICATIONS FOR DETAILS.

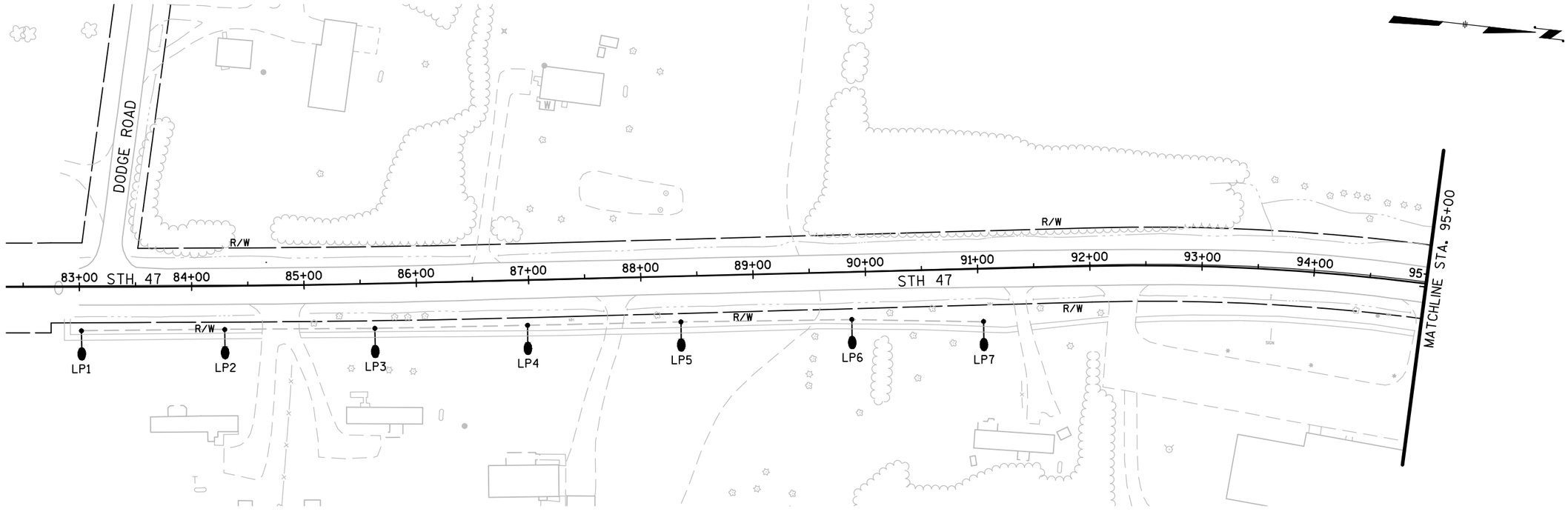
NOTES:

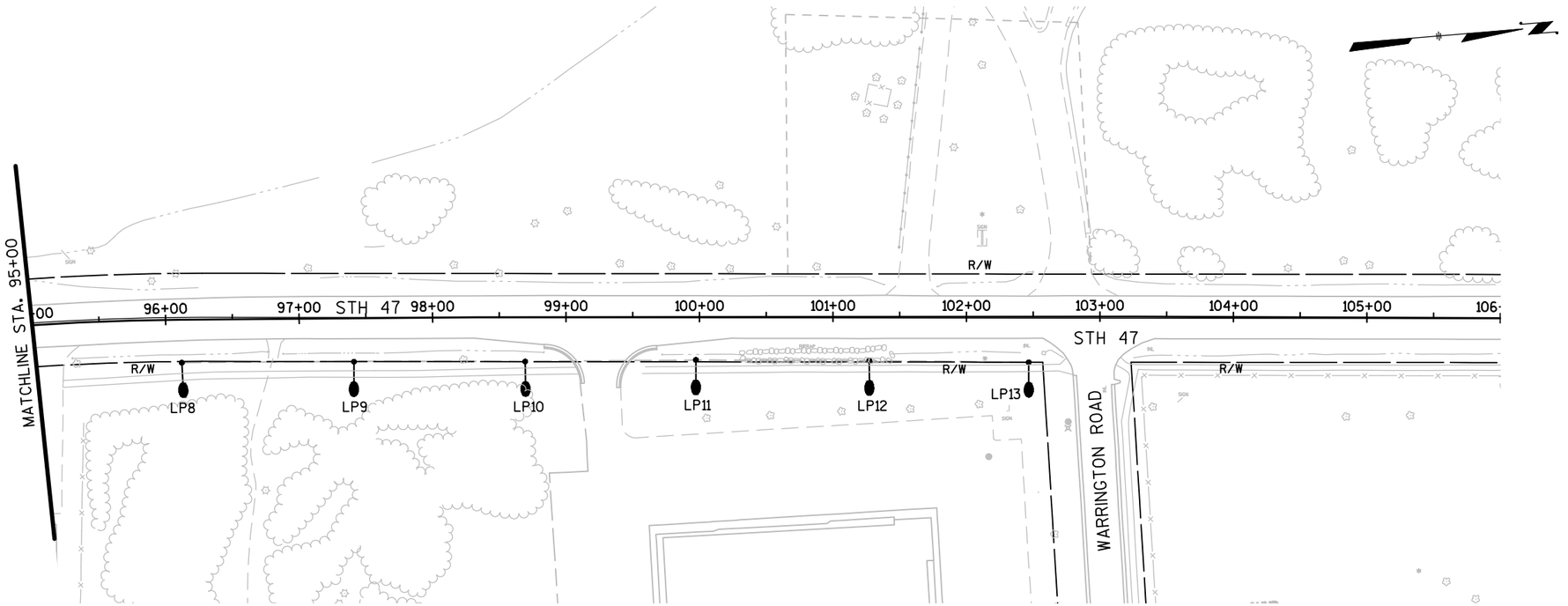
1. GRAYSHADE REPRESENTS EXISTING ROADWAY, CONDUIT TO BE ABANDONED, AND UTILITIES.
2. BOLD REPRESENTS LIGHTING UNITS TO BE SALVAGED.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE, THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. EXISTING LIGHTING CONDUIT TO BE ABANDONED IN PLACE. REMOVE AND DISPOSE OF ALL WIRE IN CONDUIT SYSTEM.

HIGHWAY LIGHTING
STH 47
VILLAGE OF KESHENA
DODGE ROAD TO WOLF RIVER DRIVE
MENOMINEE COUNTY

FEBRUARY 2019 PAGE 1 OF 1

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	LIGHTING REMOVAL PLAN	SHEET 118 E





LEGEND

- NONMETALLIC CONDUIT 2-INCH UNLESS OTHERWISE NOTED
- CITY STANDARD LIGHTING ASSEMBLY LED REMOVE AND SALVAGE. SEE SPECIFICATIONS FOR DETAILS.

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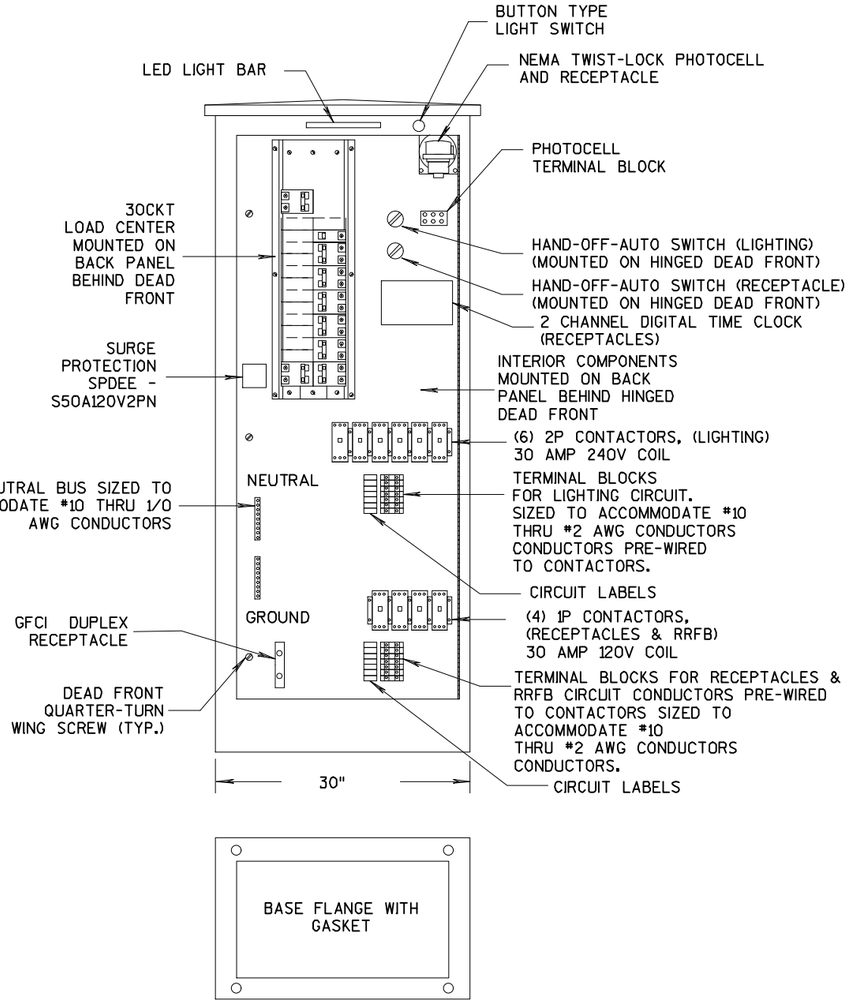
HIGHWAY LIGHTING
STH 47
VILLAGE OF KESHENA
DODGE ROAD TO WOLF RIVER DRIVE
MENOMINEE COUNTY

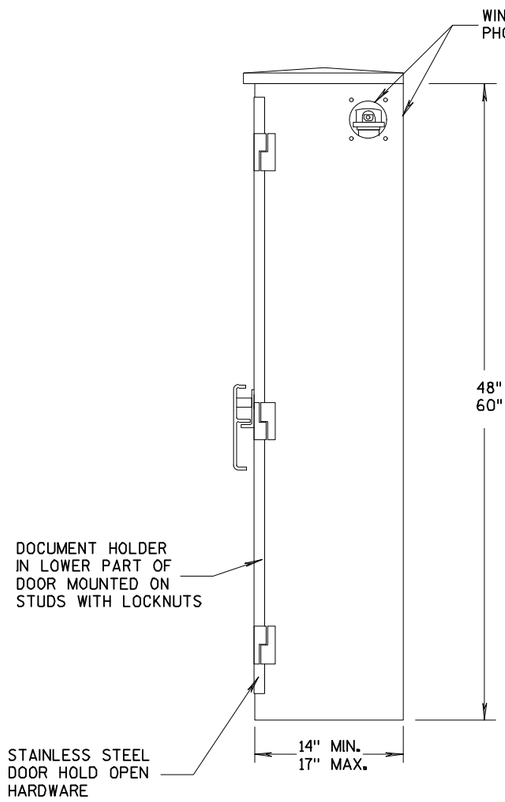
DECEMBER 2019 PAGE 1 OF 1

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	LIGHTING REMOVAL PLAN	SHEET 119 E

FRONT INTERIOR
ELEVATION



SIDE VIEW



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 CABINET FABRICATOR.

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

ORIENT PHOTOCELL AWAY FROM AMBIENT LIGHT SOURCES AND ONCOMING TRAFFIC HEADLIGHTS.

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

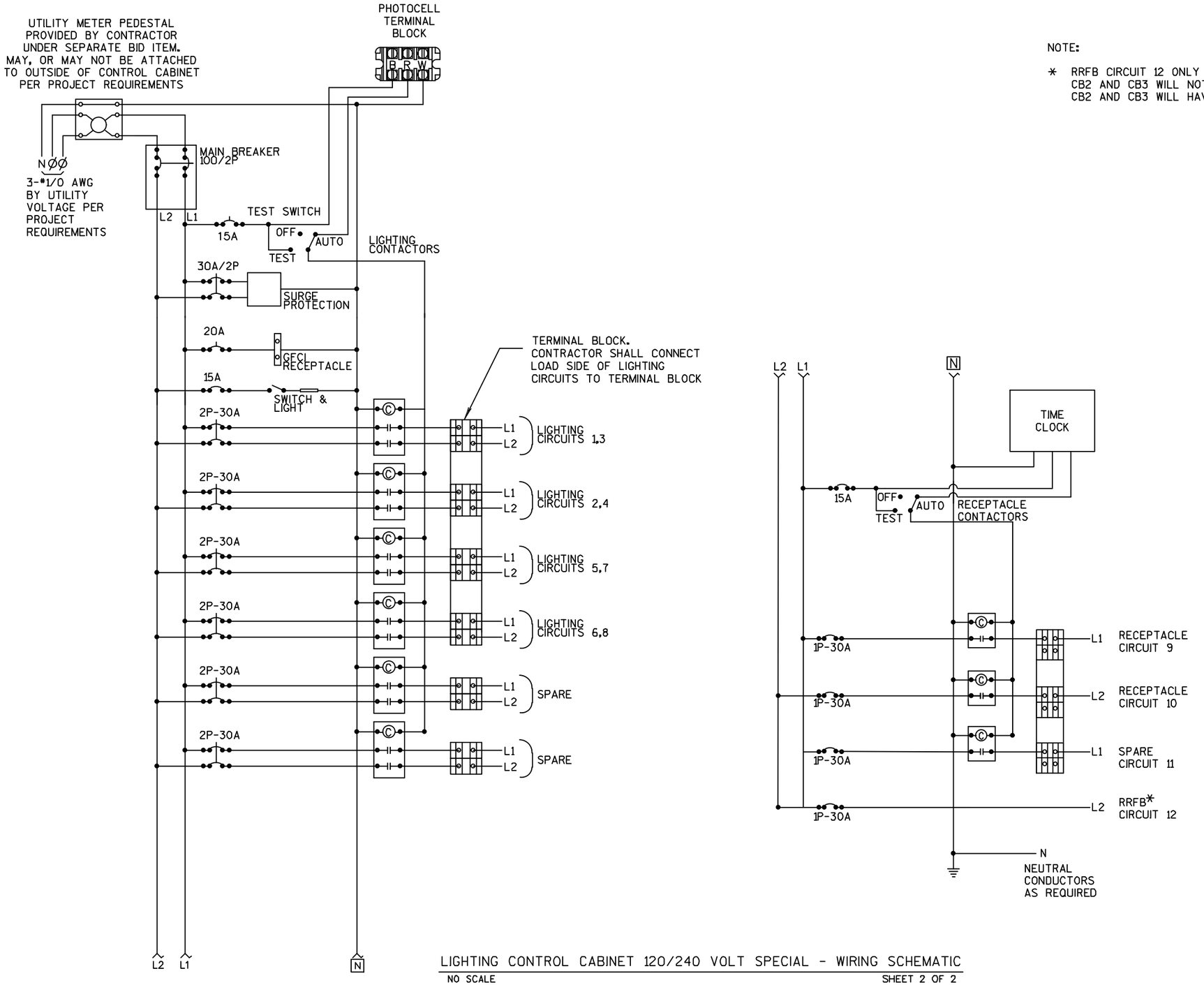
A COMPLETE LIGHTING OR ELECTRICAL PLAN SHALL BE SECURELY PLACED IN THE DOCUMENT HOLDER ATTACHED TO THE DOOR.

LIGHTING CONTROL CABINET 120/240 VOLT SPECIAL - LAYOUT

NO SCALE

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	LIGHTING DETAILS - CONTROL CABINET 120/240V SPECIAL	SHEET 120	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\023601_LP.DWG PLOT DATE : 1/30/2020 2:56 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1:100
WISDOT/CADDS SHEET 42

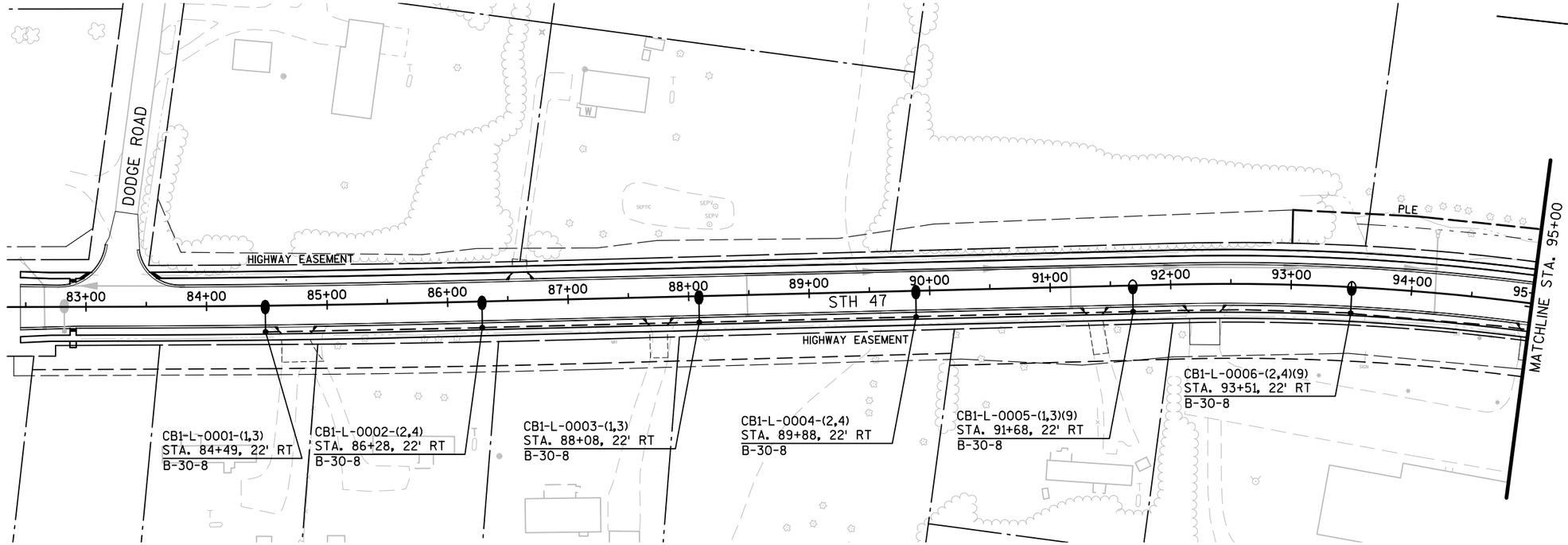


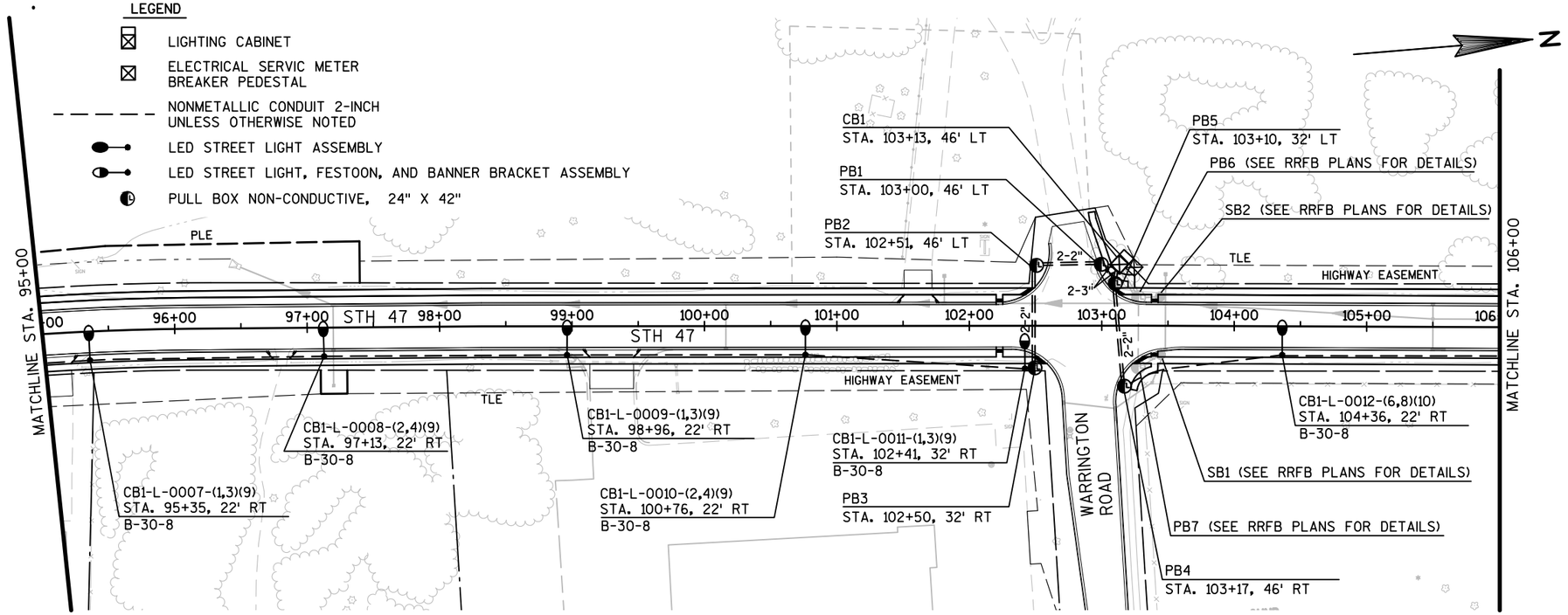
LIGHTING CONTROL CABINET 120/240 VOLT SPECIAL - WIRING SCHEMATIC

NO SCALE SHEET 2 OF 2

2

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	LIGHTING DETAILS - CONTROL CABINET 120/240V SPECIAL	SHEET 121	E



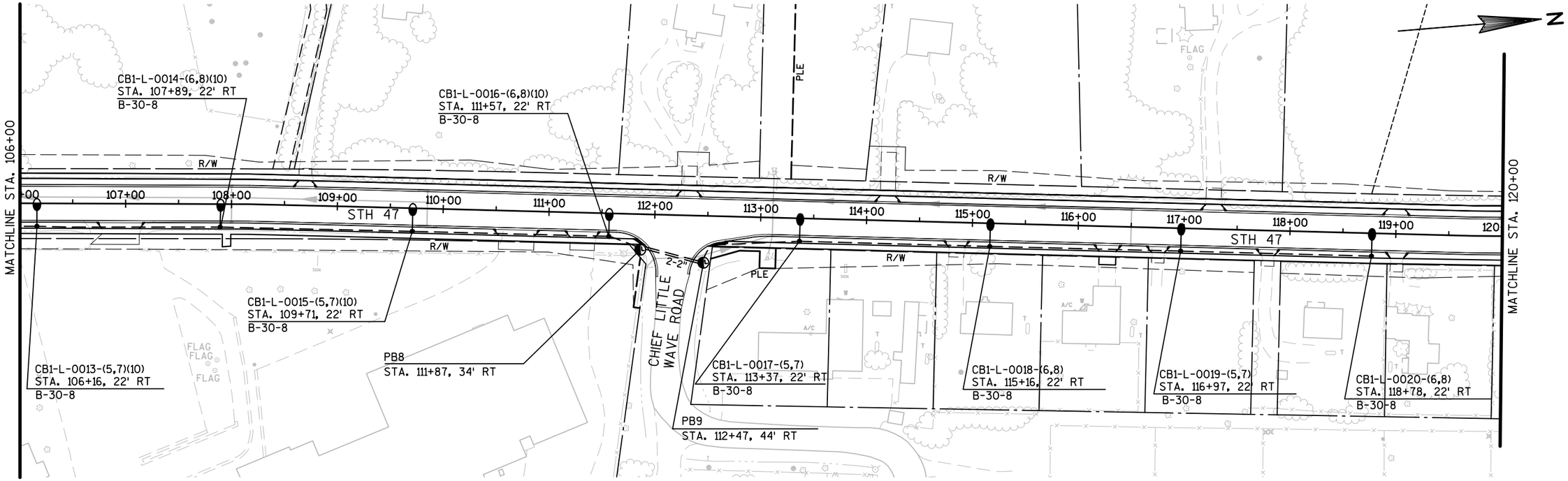


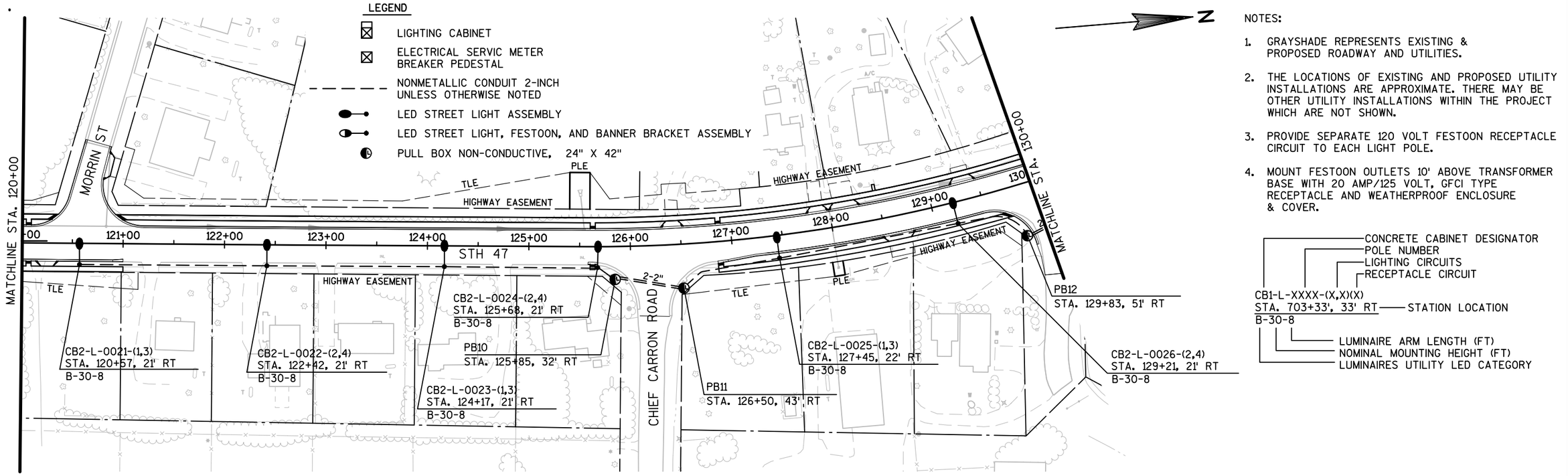
NOTES:

1. GRAYSHADE REPRESENTS EXISTING & PROPOSED ROADWAY AND UTILITIES.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. PROVIDE SEPARATE 120 VOLT FESTOON RECEPTACLE CIRCUIT TO EACH LIGHT POLE.
4. MOUNT FESTOON OUTLETS 10' ABOVE TRANSFORMER BASE WITH 20 AMP/125 VOLT, GFCI TYPE RECEPTACLE AND WEATHERPROOF ENCLOSURE & COVER.

CB1-L-XXXX-(X,X)(X)
STA. 703+33', 33' RT — STATION LOCATION
B-30-8
- CONCRETE CABINET DESIGNATOR
- POLE NUMBER
- LIGHTING CIRCUITS
- RECEPTACLE CIRCUIT
- LUMINAIRE ARM LENGTH (FT)
- NOMINAL MOUNTING HEIGHT (FT)
- LUMINAIRES UTILITY LED CATEGORY

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	LIGHTING PLAN	SHEET 122	E





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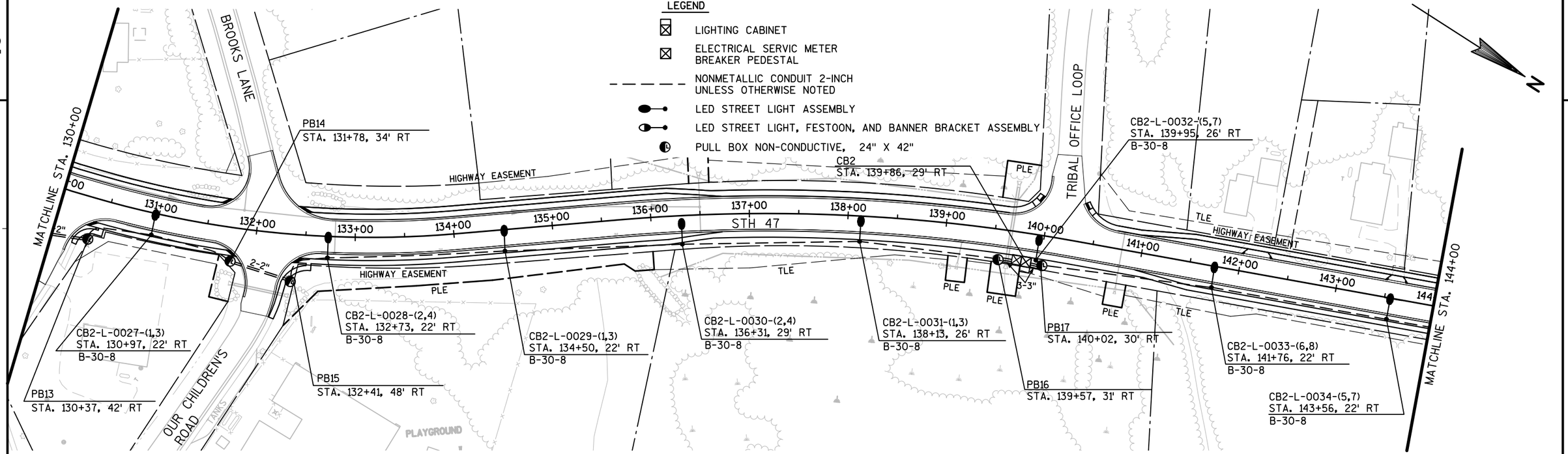
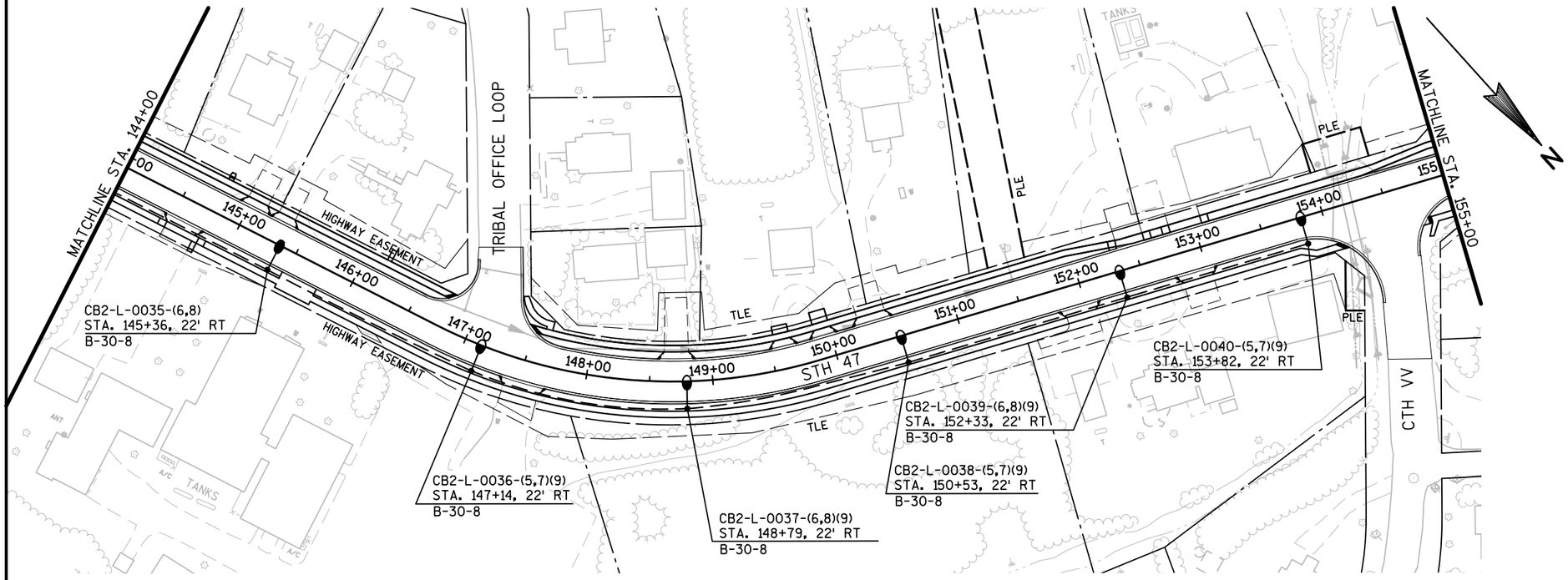
CB1-L-XXXX-(X,X)(X)
STA. 703+33', 33' RT — STATION LOCATION
B-30-8

- CONCRETE CABINET DESIGNATOR
- POLE NUMBER
- LIGHTING CIRCUITS
- RECEPTACLE CIRCUIT
- LUMINAIRE ARM LENGTH (FT)
- NOMINAL MOUNTING HEIGHT (FT)
- LUMINAIRES UTILITY LED CATEGORY

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	LIGHTING PLAN	SHEET 123 E





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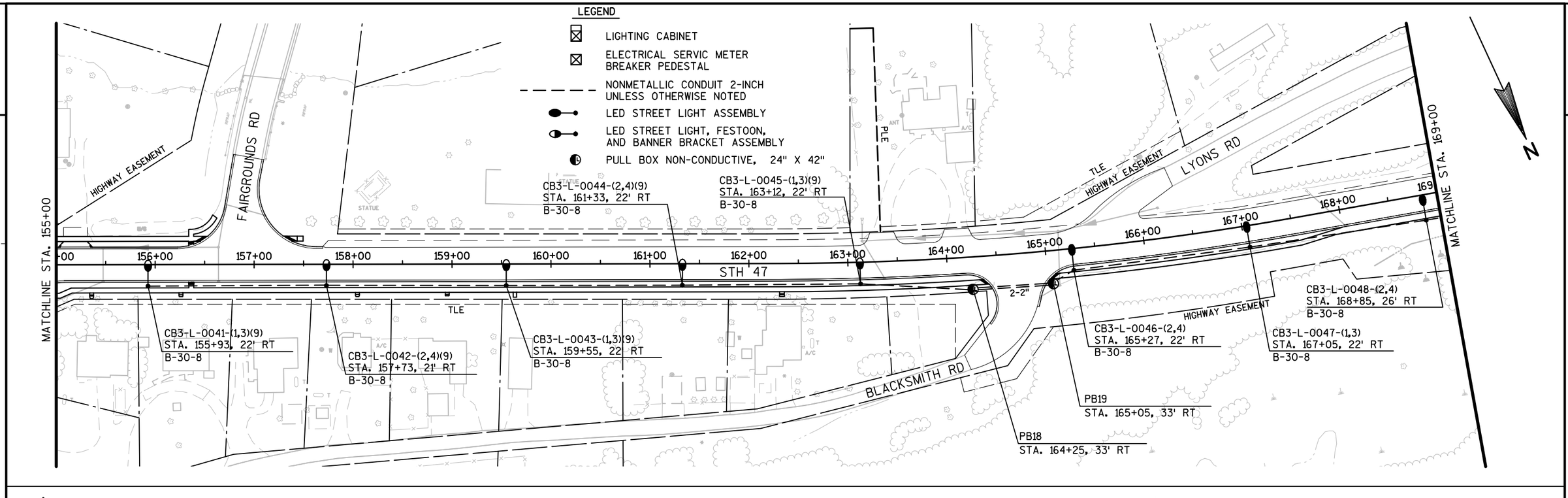
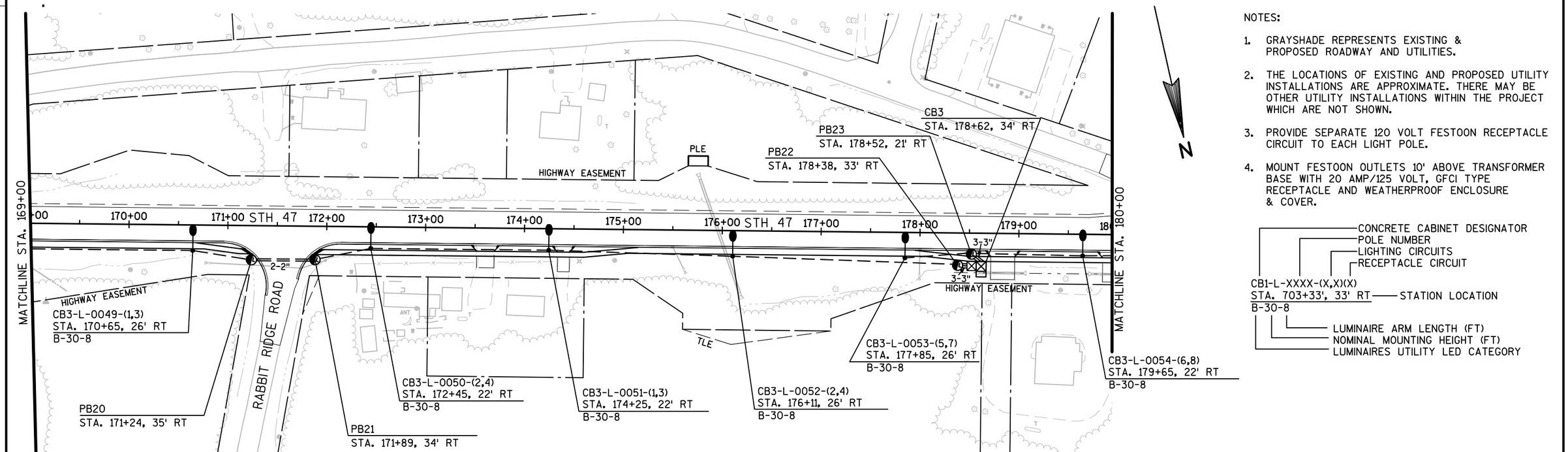
CB1-L-XXXX-(X,X)(X)
STA. 703+33', 33' RT — STATION LOCATION
B-30-8

- CONCRETE CABINET DESIGNATOR
- POLE NUMBER
- LIGHTING CIRCUITS
- RECEPTACLE CIRCUIT
- LUMINAIRE ARM LENGTH (FT)
- NOMINAL MOUNTING HEIGHT (FT)
- LUMINAIRES UTILITY LED CATEGORY

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	LIGHTING PLAN	SHEET 124	E





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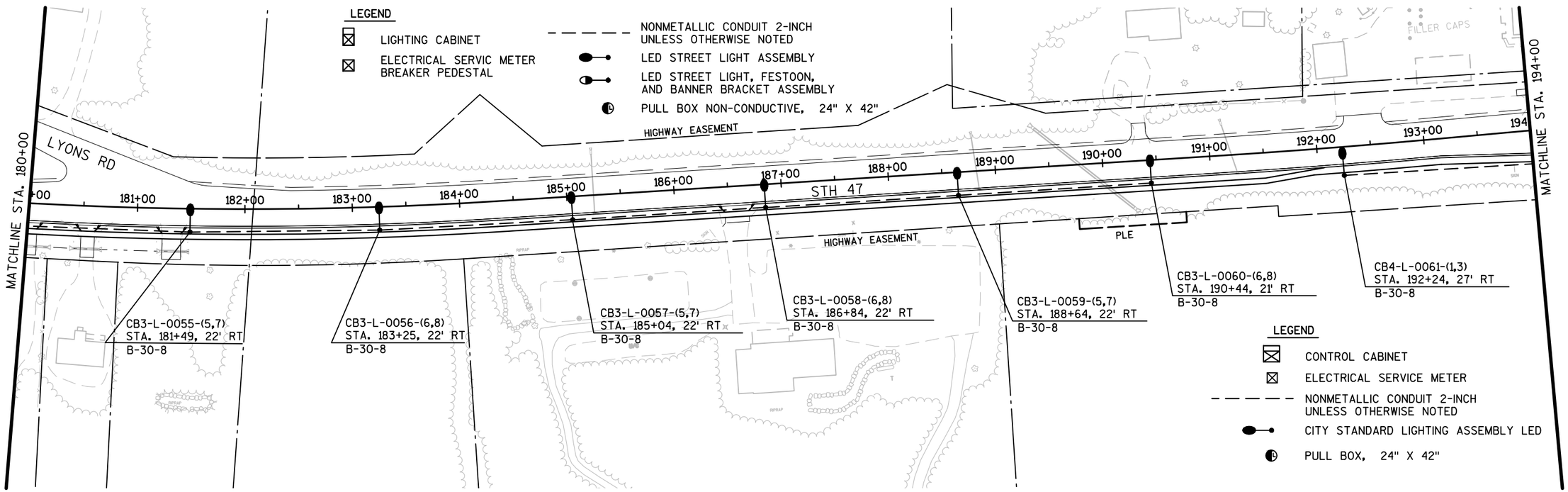
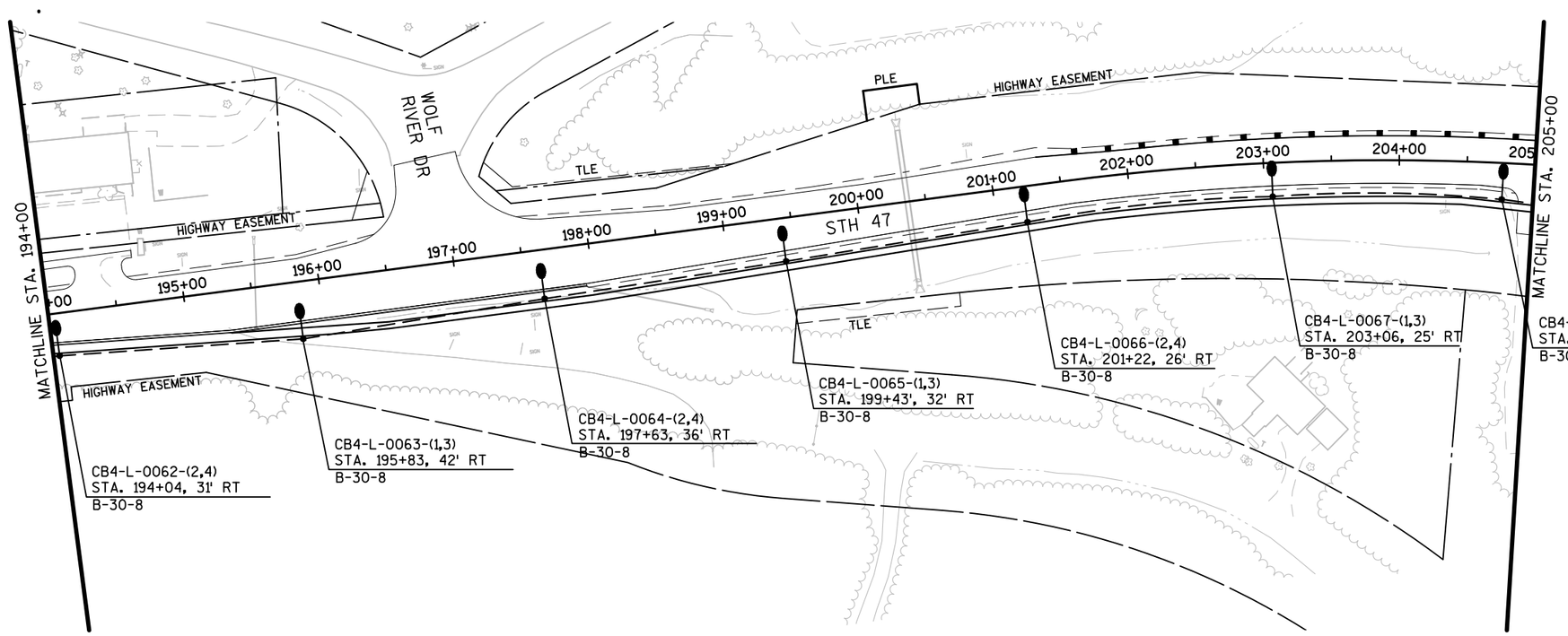
CB1-L-XXXX-(X,X)(X)
STA. 703+33', 33' RT
B-30-8

- CONCRETE CABINET DESIGNATOR
- POLE NUMBER
- LIGHTING CIRCUITS
- RECEPTACLE CIRCUIT
- STATION LOCATION
- LUMINAIRE ARM LENGTH (FT)
- NOMINAL MOUNTING HEIGHT (FT)
- LUMINAIRES UTILITY LED CATEGORY

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	LIGHTING PLAN	SHEET 125	E





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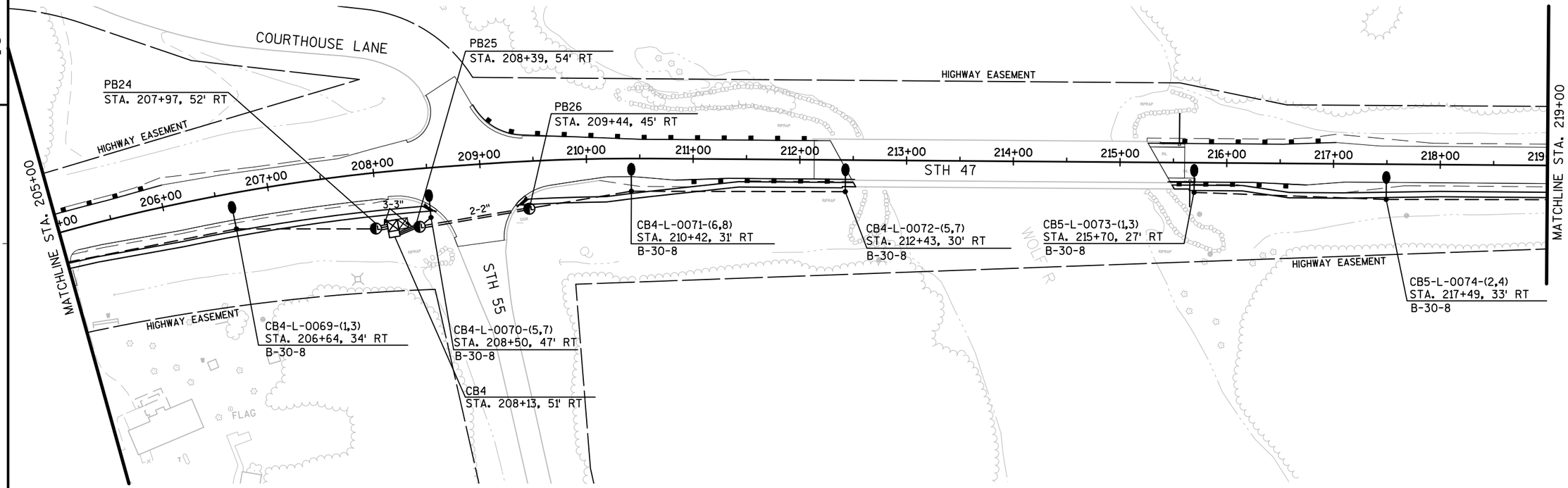
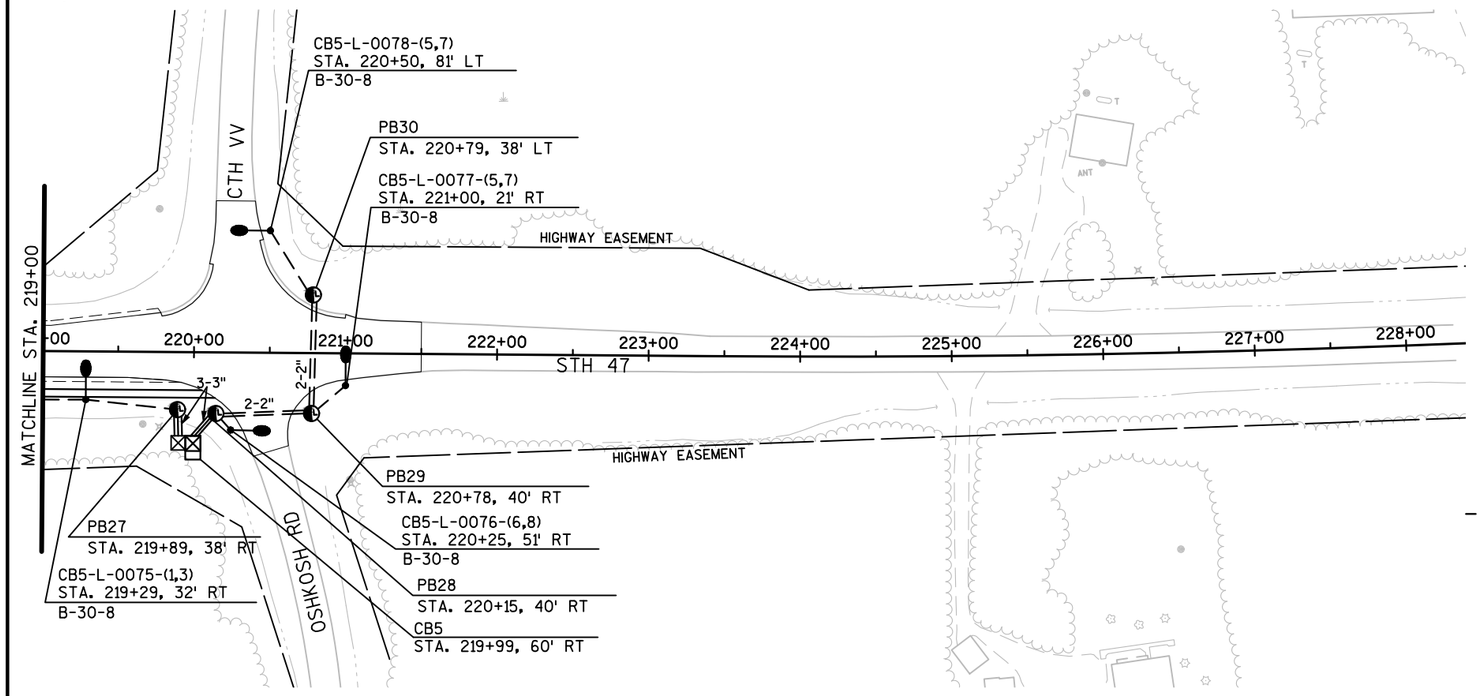
CB1-L-XXXX-(X,X)(X)
STA. 703+33', 33' RT — STATION LOCATION
B-30-8

- CONCRETE CABINET DESIGNATOR
- POLE NUMBER
- LIGHTING CIRCUITS
- RECEPTACLE CIRCUIT
- LUMINAIRE ARM LENGTH (FT)
- NOMINAL MOUNTING HEIGHT (FT)
- LUMINAIRES UTILITY LED CATEGORY

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	LIGHTING PLAN	SHEET 126	E





LEGEND

- LIGHTING CABINET
- ELECTRICAL SERVIC METER BREAKER PEDESTAL
- NONMETALLIC CONDUIT 2-INCH UNLESS OTHERWISE NOTED
- LED STREET LIGHT ASSEMBLY
- LED STREET LIGHT, FESTOON, AND BANNER BRACKET ASSEMBLY
- PULL BOX NON-CONDUCTIVE, 24" X 42"

NOTES:

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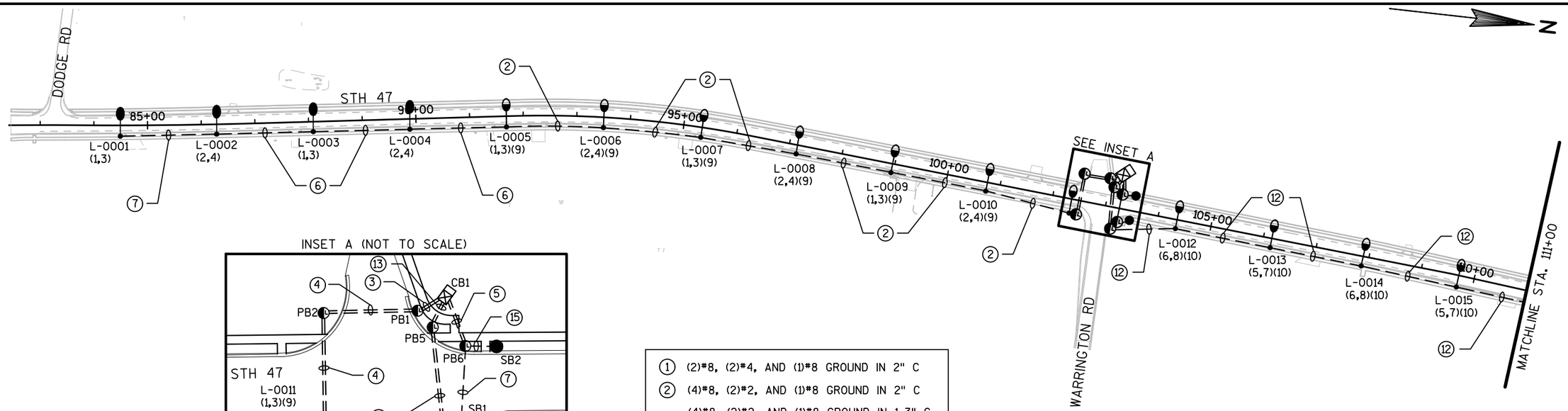
CB1-L-XXXX-(X,X)(X)
- CONCRETE CABINET DESIGNATOR
- POLE NUMBER
- LIGHTING CIRCUITS
- RECEPTACLE CIRCUIT

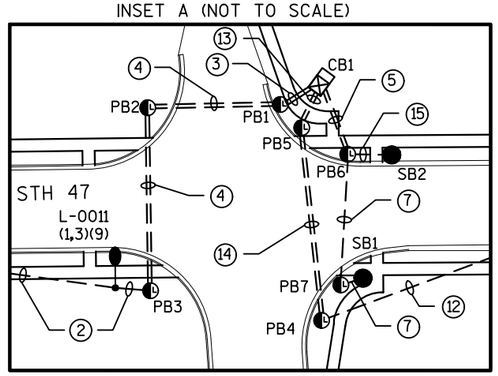
STA. 703+33', 33' RT — STATION LOCATION

B-30-8
- LUMINAIRE ARM LENGTH (FT)
- NOMINAL MOUNTING HEIGHT (FT)
- LUMINAIRES UTILITY LED CATEGORY

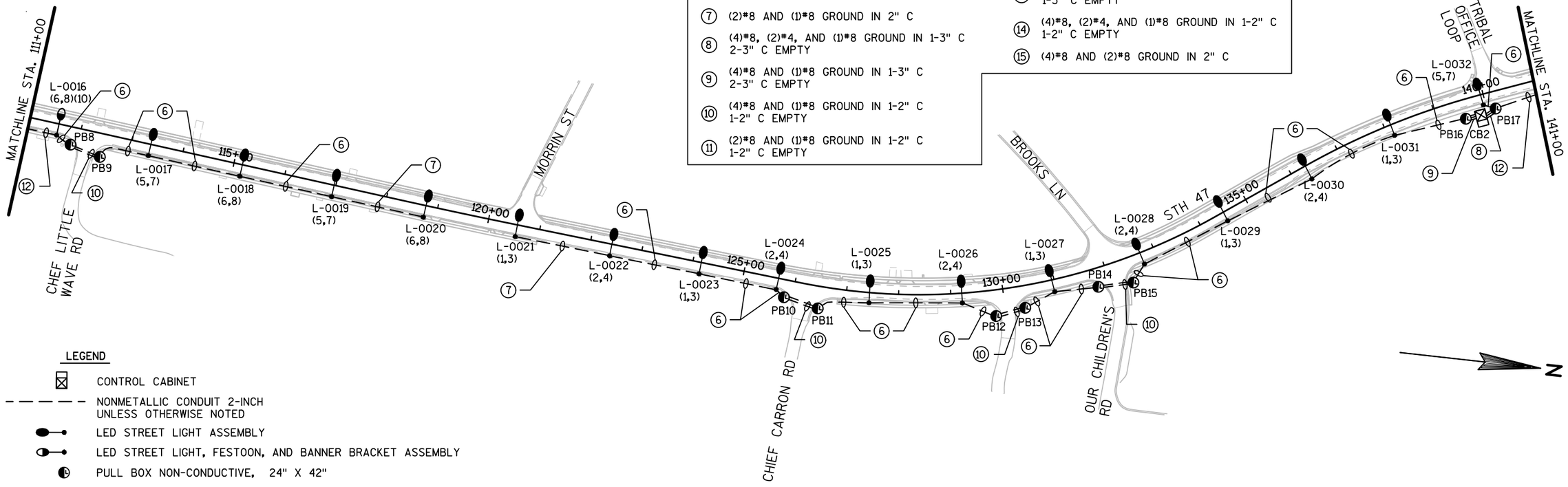
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	LIGHTING PLAN	SHEET 127	E



INSET A (NOT TO SCALE)



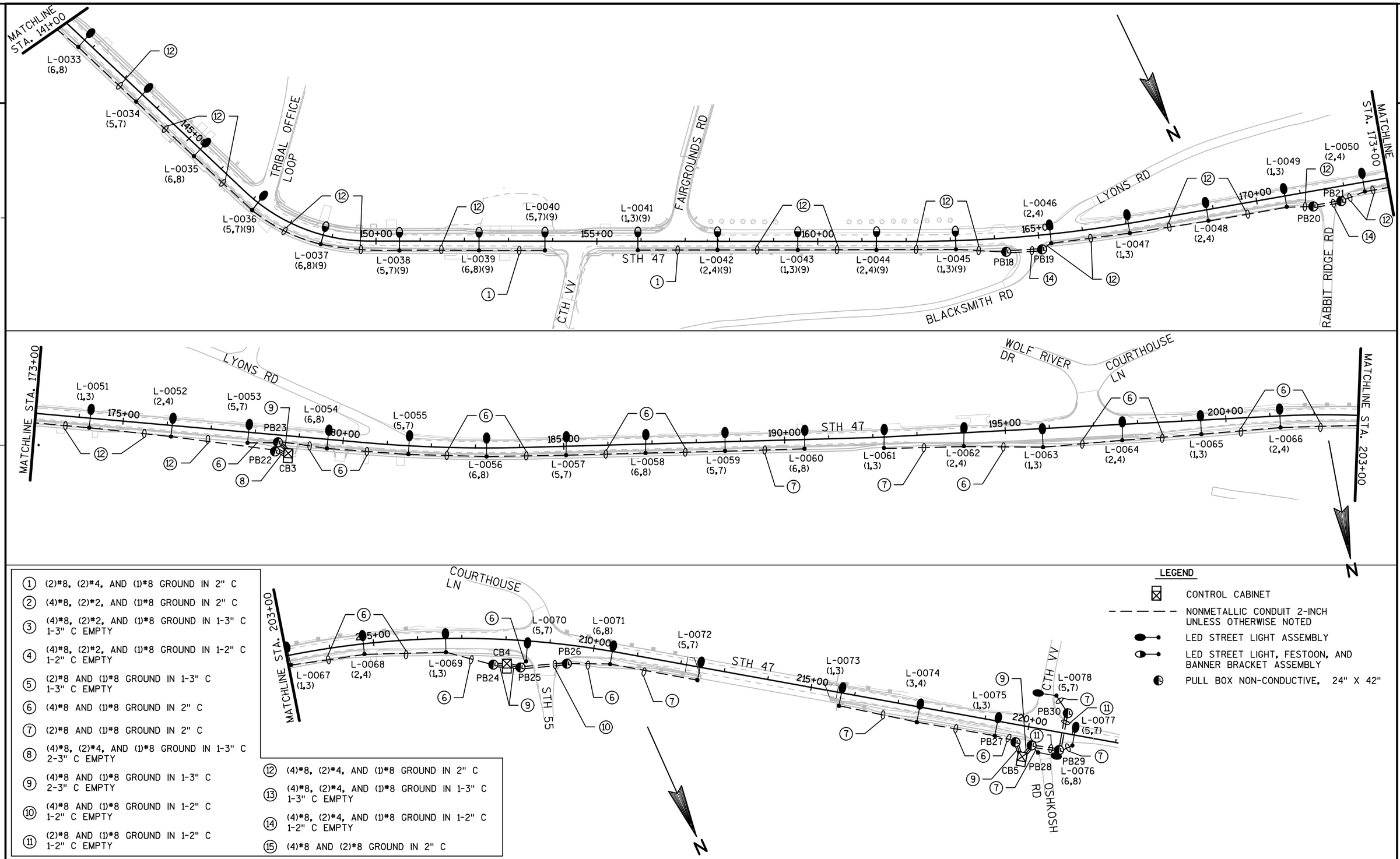
1. (2)*8, (2)*4, AND (1)*8 GROUND IN 2" C
2. (4)*8, (2)*2, AND (1)*8 GROUND IN 2" C
3. (4)*8, (2)*2, AND (1)*8 GROUND IN 1-3" C 1-3" C EMPTY
4. (4)*8, (2)*2, AND (1)*8 GROUND IN 1-2" C 1-2" C EMPTY
5. (2)*8 AND (1)*8 GROUND IN 1-3" C 1-3" C EMPTY
6. (4)*8 AND (1)*8 GROUND IN 2" C
7. (2)*8 AND (1)*8 GROUND IN 2" C
8. (4)*8, (2)*4, AND (1)*8 GROUND IN 1-3" C 2-3" C EMPTY
9. (4)*8 AND (1)*8 GROUND IN 1-3" C 2-3" C EMPTY
10. (4)*8 AND (1)*8 GROUND IN 1-2" C 1-2" C EMPTY
11. (2)*8 AND (1)*8 GROUND IN 1-2" C 1-2" C EMPTY
12. (4)*8, (2)*4, AND (1)*8 GROUND IN 2" C
13. (4)*8, (2)*4, AND (1)*8 GROUND IN 1-3" C 1-3" C EMPTY
14. (4)*8, (2)*4, AND (1)*8 GROUND IN 1-2" C 1-2" C EMPTY
15. (4)*8 AND (2)*8 GROUND IN 2" C



LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2-INCH UNLESS OTHERWISE NOTED
- LED STREET LIGHT ASSEMBLY
- LED STREET LIGHT, FESTOON, AND BANNER BRACKET ASSEMBLY
- PULL BOX NON-CONDUCTIVE, 24" X 42"

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	LIGHTING PLAN WIRING DIAGRAM	SHEET 128	E



(1) (2)*8, (2)*4, AND (1)*8 GROUND IN 2" C

(2) (4)*8, (2)*2, AND (1)*8 GROUND IN 2" C

(3) (4)*8, (2)*2, AND (1)*8 GROUND IN 1-3" C 1-3" C EMPTY

(4) (4)*8, (2)*2, AND (1)*8 GROUND IN 1-2" C 1-2" C EMPTY

(5) (2)*8 AND (1)*8 GROUND IN 1-3" C 1-3" C EMPTY

(6) (4)*8 AND (1)*8 GROUND IN 2" C

(7) (2)*8 AND (1)*8 GROUND IN 2" C

(8) (4)*8, (2)*4, AND (1)*8 GROUND IN 1-3" C 2-3" C EMPTY

(9) (4)*8 AND (1)*8 GROUND IN 1-3" C 2-3" C EMPTY

(10) (4)*8 AND (1)*8 GROUND IN 1-2" C 1-2" C EMPTY

(11) (2)*8 AND (1)*8 GROUND IN 1-2" C 1-2" C EMPTY

(12) (4)*8, (2)*4, AND (1)*8 GROUND IN 2" C

(13) (4)*8, (2)*4, AND (1)*8 GROUND IN 1-3" C 1-3" C EMPTY

(14) (4)*8, (2)*4, AND (1)*8 GROUND IN 1-2" C 1-2" C EMPTY

(15) (4)*8 AND (2)*8 GROUND IN 2" C

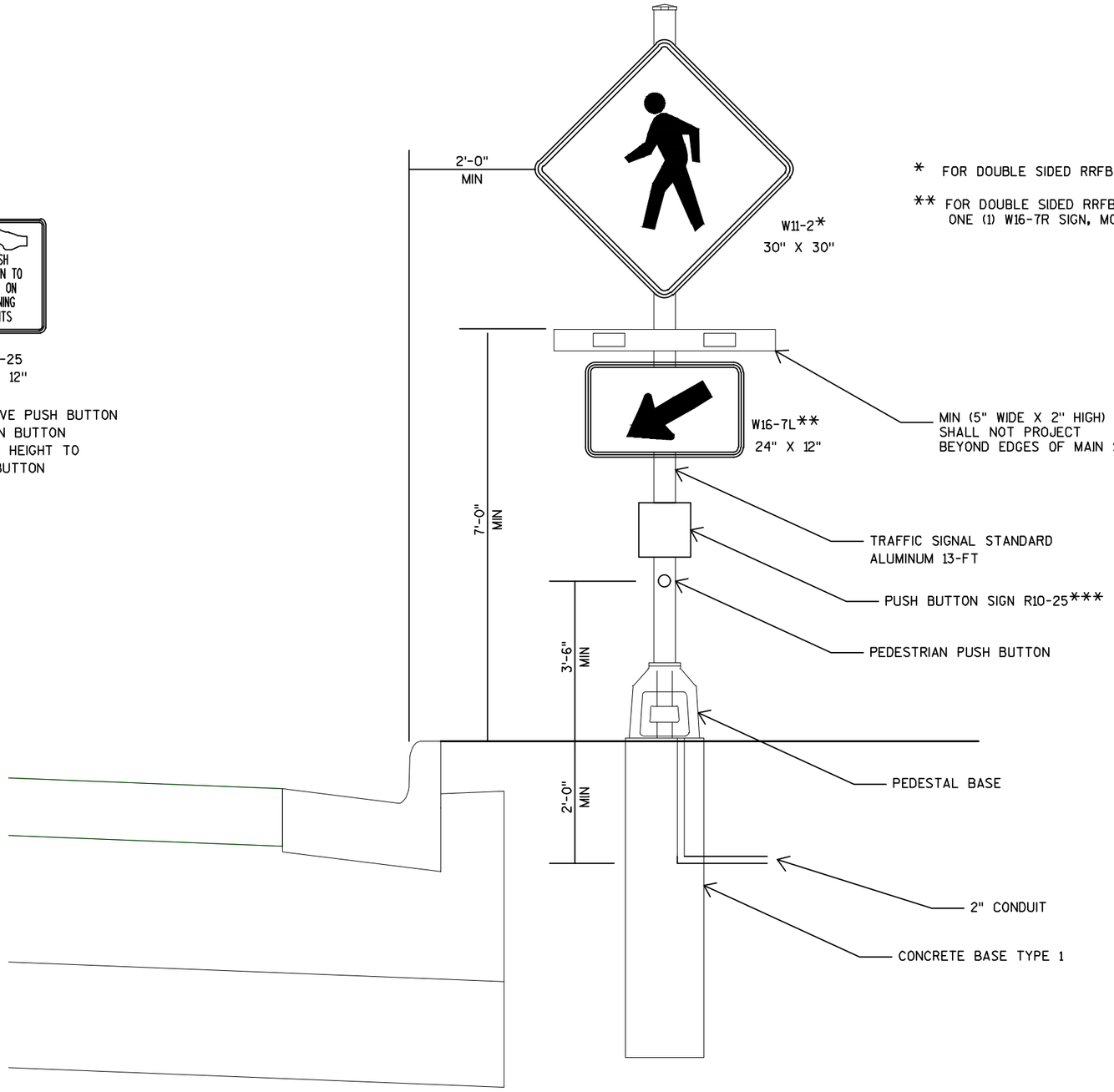
LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2-INCH UNLESS OTHERWISE NOTED
- LED STREET LIGHT ASSEMBLY
- LED STREET LIGHT, FESTOON, AND BANNER BRACKET ASSEMBLY
- PULL BOX NON-CONDUCTIVE, 24" X 42"

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	LIGHTING PLAN WIRING DIAGRAM	SHEET 129	E

R10-25
9" X 12"

***LOCATE ABOVE PUSH BUTTON
ACTIVATION BUTTON
4' MOUNTING HEIGHT TO
PUSH BUTTON



* FOR DOUBLE SIDED RRFB LOCATIONS, TWO (2) W11-2 SIGNS, MOUNTED BACK TO BACK.

** FOR DOUBLE SIDED RRFB LOCATIONS, EACH POLE SHALL HAVE ONE (1) W16-7L SIGN AND ONE (1) W16-7R SIGN, MOUNTED BACK TO BACK. THE ARROW SHALL BE DIRECTED TOWARDS THE CURB.

NOTE:

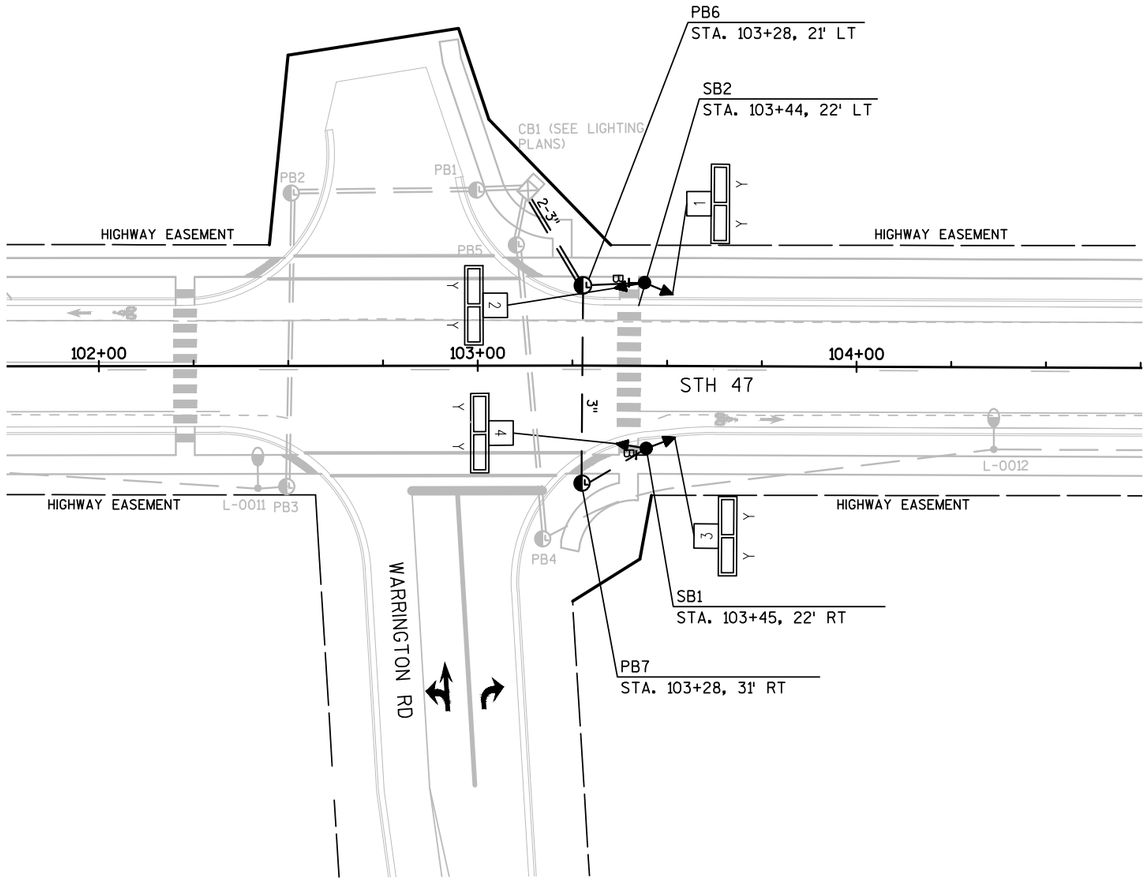
SEE RECTANGULAR RAPID FLASHING BEACON PLAN SHEETS FOR BEACON AND PUSH BUTTON LOCATIONS.

RECTANGULAR RAPID FLASHING BEACON DETAIL

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	RECTANGULAR RAPID FLASHING BEACON	SHEET 130	E

2

N



LEGEND

- NONMETALLIC CONDUIT 2-INCH UNLESS OTHERWISE NOTED
- PUSH BUTTON
- RECTANGULAR RAPID FLASHING BEACON (RRFB) WITH PEDESTRIAN ACTIVATION
- PULL BOX NON-CONDUCTIVE, 24" X 42"
- XX SIGNAL HEAD NUMBER
- YELLOW RECTANGULAR RAPID FLASHING BEACON (Y Y)

CONSTRUCTION NOTES:

1. LENSES ARE MIN. 5" W X 2" H
2. SEE PERMANENT SIGNING PLAN FOR RRFB SIGNS.
3. SEE RECTANGULAR RAPID FLASHING BEACON DETAIL FOR INFORMATION ON RRFB ASSEMBLIES.
4. GRAYSHADE REPRESENTS EXISTING AND PROPOSED ROADWAY, UTILITIES, AND LIGHTING.
5. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	RECTANGULAR RAPID FLASHING BEACON	SHEET 131	E

LEGEND - PAVEMENT MARKING

CW	CROSSWALK EPOXY 6-INCH (WHITE)
SL	STOP LINE EPOXY 18-INCH (WHITE)
A	ARROW BIKE LANE EPOXY (WHITE)
BL	SYMBOL BIKE LANE EPOXY (WHITE)

N

DODGE RD

MARKING LINE EPOXY 4-INCH (WHITE)

MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)

MARKING CROSSWALK EPOXY LADDER PATTERN 24-INCH

2' (TYP)

2' (TYP)

6'

SL

CW

BL A

82+00 83+00 84+00 85+00 86+00 87+00 88+00 89+00 90+00 91+00 92+00 93+00 94+00

STH 47

MARKING LINE EPOXY 4-INCH (WHITE)

MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)

MATCHLINE STA. 94+00

1-0 1-1 1-2 1-3 1-4 1-5

BIKE LANE ENDS REMOVE

STOP MOVE

SPEED LIMIT 35 MOVE

MOVE AHEAD MOVE

DRUG FREE SCHOOL ZONE MOVE

FLASHING YELLOW SCHOOL MOVE

SCHOOL SPEED LIMIT 15 WHEN CHILDREN ARE PRESENT MOVE

SEPTIC SEPV

MH CONCRETE ASPHALT SIGN

MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)

MARKING LINE EPOXY 4-INCH (WHITE)

MARKING LINE EPOXY 4-INCH (YELLOW)

MARKING LINE EPOXY 4-INCH (DASHED YELLOW; 12.5 FT LINE, 37.5 FT SKIP)

MATCHLINE STA. 94+00

95+00 96+00 97+00 98+00 99+00 100+00 101+00 102+00 103+00 104+00 105+00 106+00 107+00 108+00 109+00

STH 47

A BL CW SL BL A CW

1-6 1-7 1-8 1-9 1-10 1-11 1-12 1-13 1-14

STOP MOVE

MARKING LINE EPOXY 4-INCH (WHITE)

W11-2 30"X30" W16-7R 24"X12" R10-25 9"X12"

W11-2 30"X30" W16-7L 24"X12" R10-25 9"X12"

MOUNT ON POLE WITH RRFB

REMOVE REMOVE

MOVE NEXT MILE MOVE

NO PASSING ZONE MOVE

MOVE AHEAD MOVE

STH 47/55 WARRINGTON RD MOVE

STOP MOVE

W11-2 30"X30" W16-7L 24"X12" R10-25 9"X12"

W11-2 30"X30" W16-7R 24"X12" R10-25 9"X12"

MOUNT ON POLE WITH RRFB

ENTRANCE MOVE ENTRANCE MOVE

FLAG FLAG FLAG

MARKING LINE EPOXY 4-INCH (WHITE)

MARKING LINE EPOXY 8-INCH (WHITE)

MARKING LINE EPOXY 4-INCH (YELLOW)

WARRINGTON RD

14+00

MATCHLINE STA. 109+00

A/C

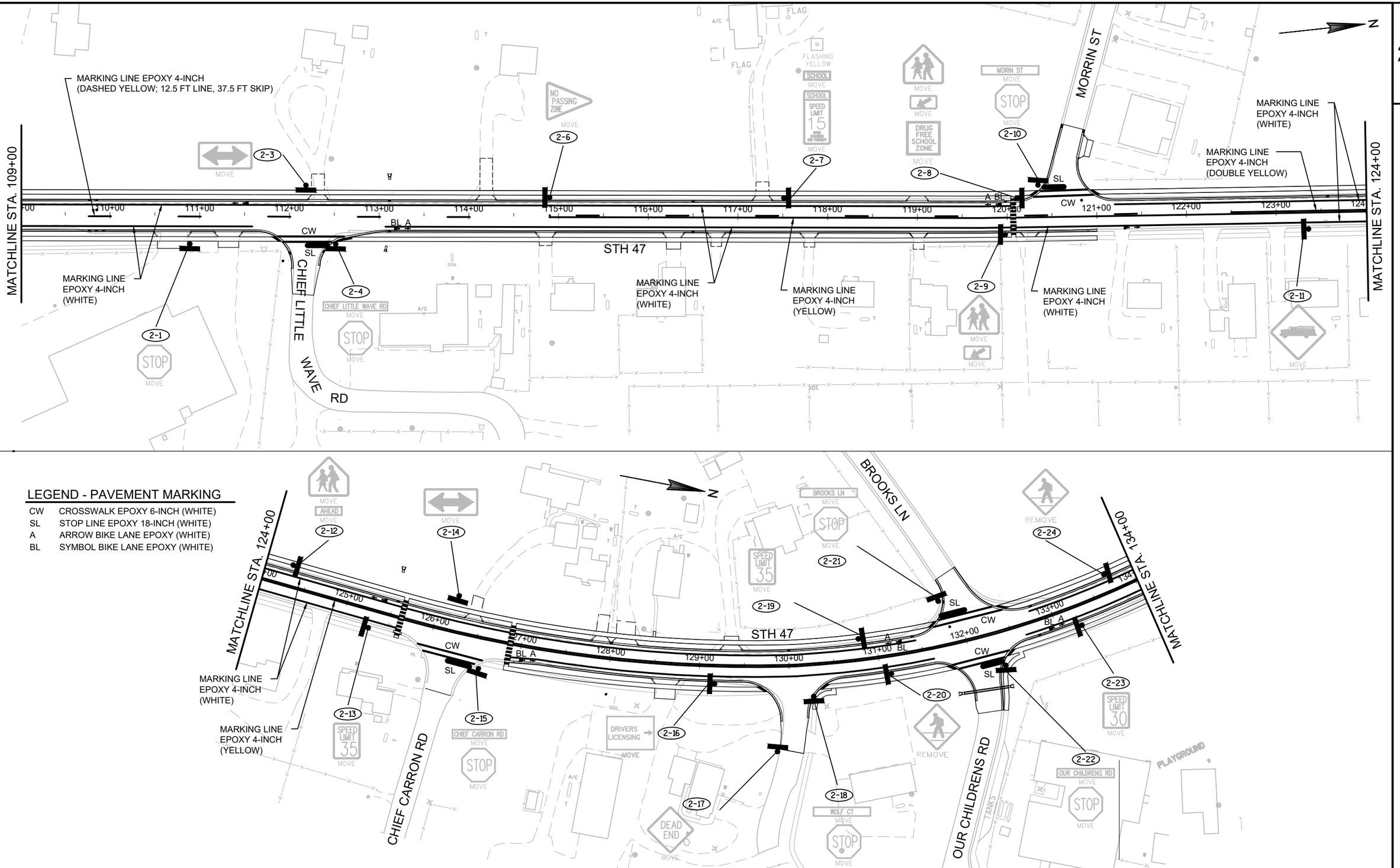
SIGN

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PERMANENT SIGNING AND PAVEMENT MARKING	SHEET E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0245_PS_PM.DWG PLOT DATE : 1/28/2020 4:07 PM PLOT BY : DAY, JOHN PLOT NAME : PLOT SCALE : 1" = 100'_XREF

WISDOT/CADDS SHEET 42

2



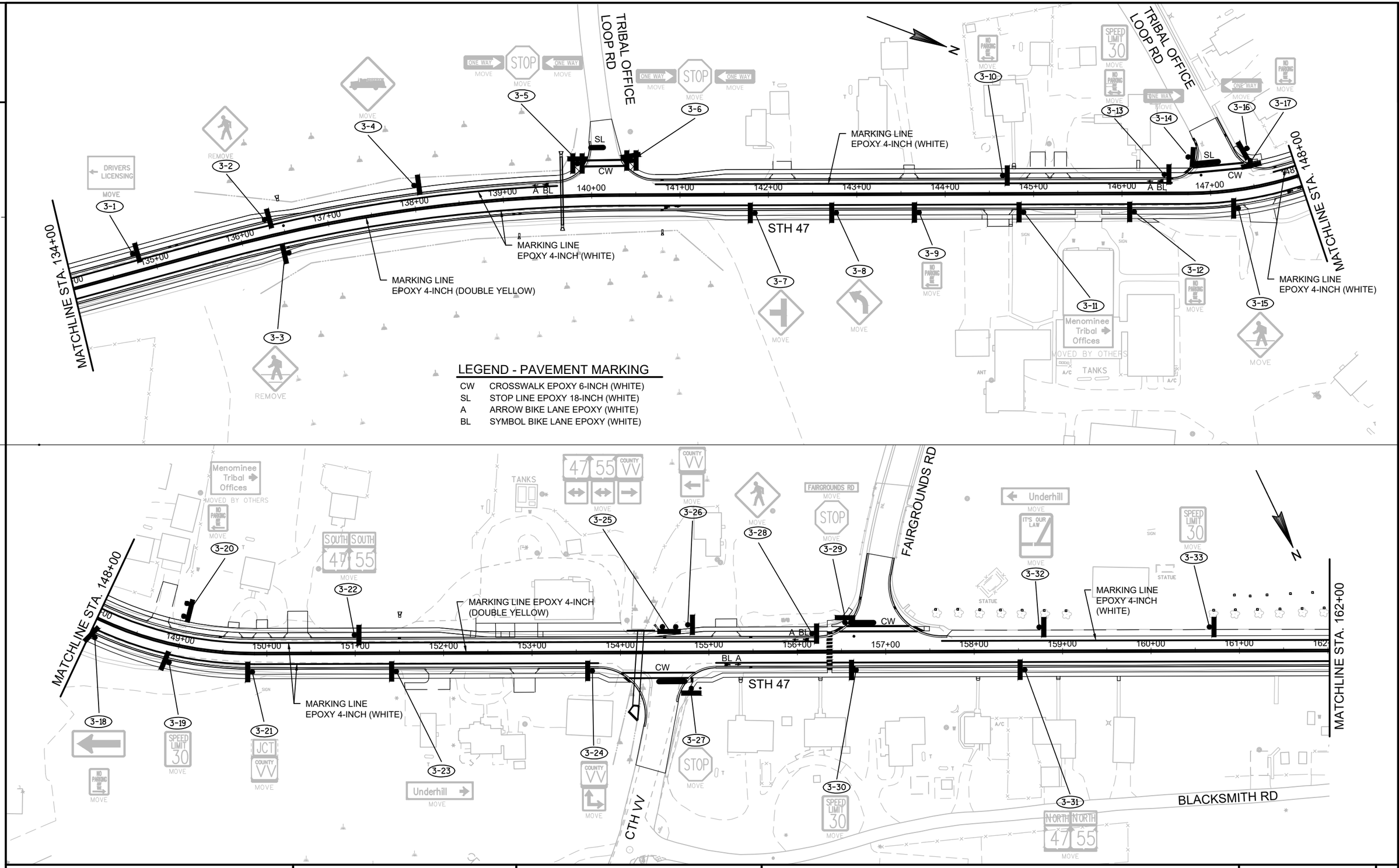
LEGEND - PAVEMENT MARKING

CW	CROSSWALK EPOXY 6-INCH (WHITE)
SL	STOP LINE EPOXY 18-INCH (WHITE)
A	ARROW BIKE LANE EPOXY (WHITE)
BL	SYMBOL BIKE LANE EPOXY (WHITE)

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PERMANENT SIGNING AND PAVEMENT MARKING	SHEET E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0245_PS_PM.DWG PLOT DATE : 1/28/2020 4:07 PM PLOT BY : DAY, JOHN PLOT NAME : PLOT SCALE : ********** WISDOT/CADDS SHEET 42

2



LEGEND - PAVEMENT MARKING

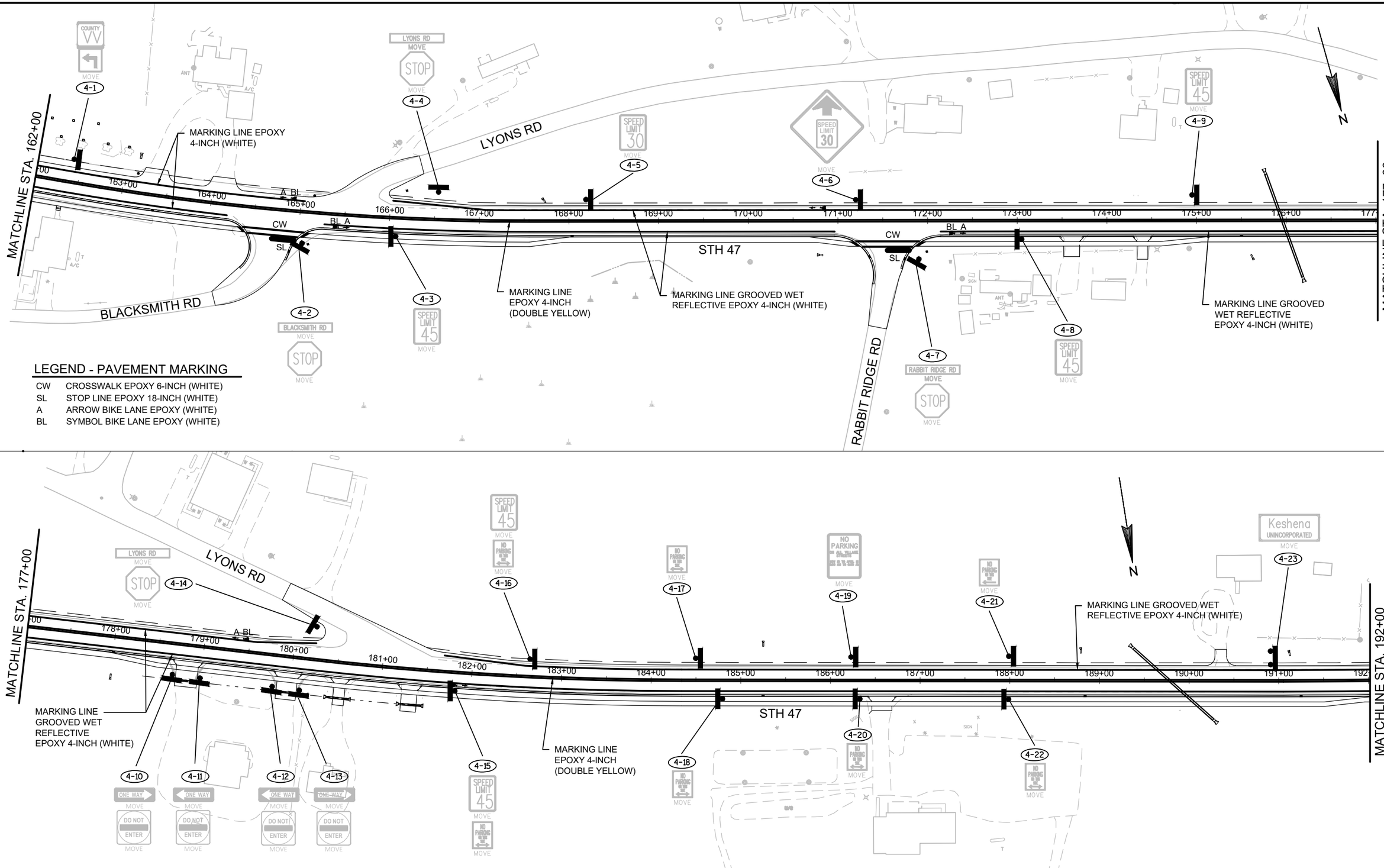
CW	CROSSWALK EPOXY 6-INCH (WHITE)
SL	STOP LINE EPOXY 18-INCH (WHITE)
A	ARROW BIKE LANE EPOXY (WHITE)
BL	SYMBOL BIKE LANE EPOXY (WHITE)

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PERMANENT SIGNING AND PAVEMENT MARKING	SHEET E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0245_PS_PM.DWG PLOT DATE : 1/28/2020 4:08 PM PLOT BY : DAY, JOHN PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 42

2



LEGEND - PAVEMENT MARKING

CW	CROSSWALK EPOXY 6-INCH (WHITE)
SL	STOP LINE EPOXY 18-INCH (WHITE)
A	ARROW BIKE LANE EPOXY (WHITE)
BL	SYMBOL BIKE LANE EPOXY (WHITE)

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PERMANENT SIGNING AND PAVEMENT MARKING	SHEET E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0245_PS_PM.DWG PLOT DATE : 1/28/2020 4:08 PM PLOT BY : DAY, JOHN PLOT NAME : PLOT SCALE : ********** WISDOT/CADDS SHEET 42

LEGEND - PAVEMENT MARKING

CW	CROSSWALK EPOXY 6-INCH (WHITE)
SL	STOP LINE EPOXY 18-INCH (WHITE)
A	ARROW BIKE LANE EPOXY (WHITE)
BL	SYMBOL BIKE LANE EPOXY (WHITE)

MATCHLINE STA. 192+00

MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)

MARKING LINE EPOXY 4-INCH (DASHED YELLOW; 12.5 FT LINE, 37.5 FT SKIP)

MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)

MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)

MARKING LINE EPOXY 8-INCH (WHITE)

MATCHLINE STA. 207+00

MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)

MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)

MARKING LINE EPOXY 4-INCH (WHITE)

MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)

MARKING LINE EPOXY 8-INCH (WHITE)

MATCHLINE STA. 207+00

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PERMANENT SIGNING AND PAVEMENT MARKING	SHEET E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0245_PS_PM.DWG PLOT DATE : 1/28/2020 4:08 PM PLOT BY : DAY, JOHN PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 42

2

STAGE 1A TRAFFIC

TRAFFIC WILL BE RESTRICTED TO ONE 11 FOOT TRAVEL LANE ON SOUTHBOUND STH 47 IN THE AREA NEAR THE STH 47 & CTH VV (SOUTH) INTERSECTION

CTH VV (SOUTH) WILL BE CLOSED TO TRAFFIC

STAGE 1B TRAFFIC

TRAFFIC WILL BE RESTRICTED TO ONE 11 FOOT TRAVEL LANE ON NORTHBOUND STH 47 IN THE AREA NEAR THE STH 47 & CTH VV (SOUTH) INTERSECTION

CTH VV (SOUTH) WILL BE CLOSED TO TRAFFIC

STAGE 1C TRAFFIC

TRAFFIC WILL BE RESTRICTED TO ONE 11 FOOT TRAVEL LANE ON NORTHBOUND STH 47 IN THE AREA NEAR THE STH 47 & CTH VV (SOUTH) INTERSECTION

CTH VV (SOUTH) TRAFFIC WILL BE CLOSED TO TRAFFIC

STAGE 1A WORK ITEMS

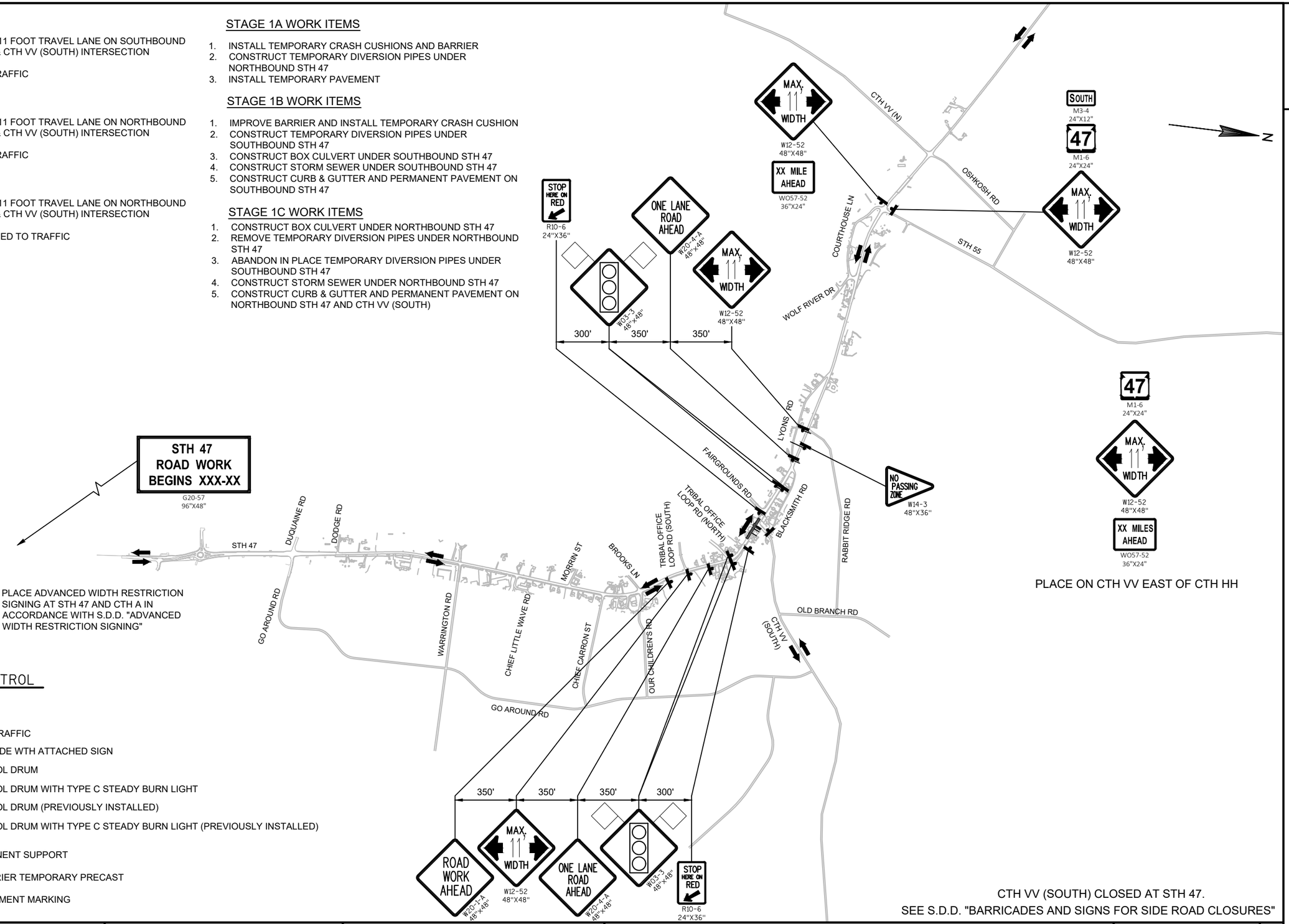
1. INSTALL TEMPORARY CRASH CUSHIONS AND BARRIER
2. CONSTRUCT TEMPORARY DIVERSION PIPES UNDER NORTHBOUND STH 47
3. INSTALL TEMPORARY PAVEMENT

STAGE 1B WORK ITEMS

1. IMPROVE BARRIER AND INSTALL TEMPORARY CRASH CUSHION
2. CONSTRUCT TEMPORARY DIVERSION PIPES UNDER SOUTHBOUND STH 47
3. CONSTRUCT BOX CULVERT UNDER SOUTHBOUND STH 47
4. CONSTRUCT STORM SEWER UNDER SOUTHBOUND STH 47
5. CONSTRUCT CURB & GUTTER AND PERMANENT PAVEMENT ON SOUTHBOUND STH 47

STAGE 1C WORK ITEMS

1. CONSTRUCT BOX CULVERT UNDER NORTHBOUND STH 47
2. REMOVE TEMPORARY DIVERSION PIPES UNDER NORTHBOUND STH 47
3. ABANDON IN PLACE TEMPORARY DIVERSION PIPES UNDER SOUTHBOUND STH 47
4. CONSTRUCT STORM SEWER UNDER NORTHBOUND STH 47
5. CONSTRUCT CURB & GUTTER AND PERMANENT PAVEMENT ON NORTHBOUND STH 47 AND CTH VV (SOUTH)



NOTE:
INSTALL TRAFFIC CONTROL SIGNS FIXED MESSAGE ALONG STH 47 AT EACH END OF THE PROJECT 7 DAYS PRIOR TO CONSTRUCTION.
PLACE TRAFFIC CONTROL SIGNS FIXED MESSAGE 0.5 MILES FROM START/ END OF PROJECT LIMITS.

PLACE ADVANCED WIDTH RESTRICTION SIGNING AT STH 47 AND CTH A IN ACCORDANCE WITH S.D.D. "ADVANCED WIDTH RESTRICTION SIGNING"

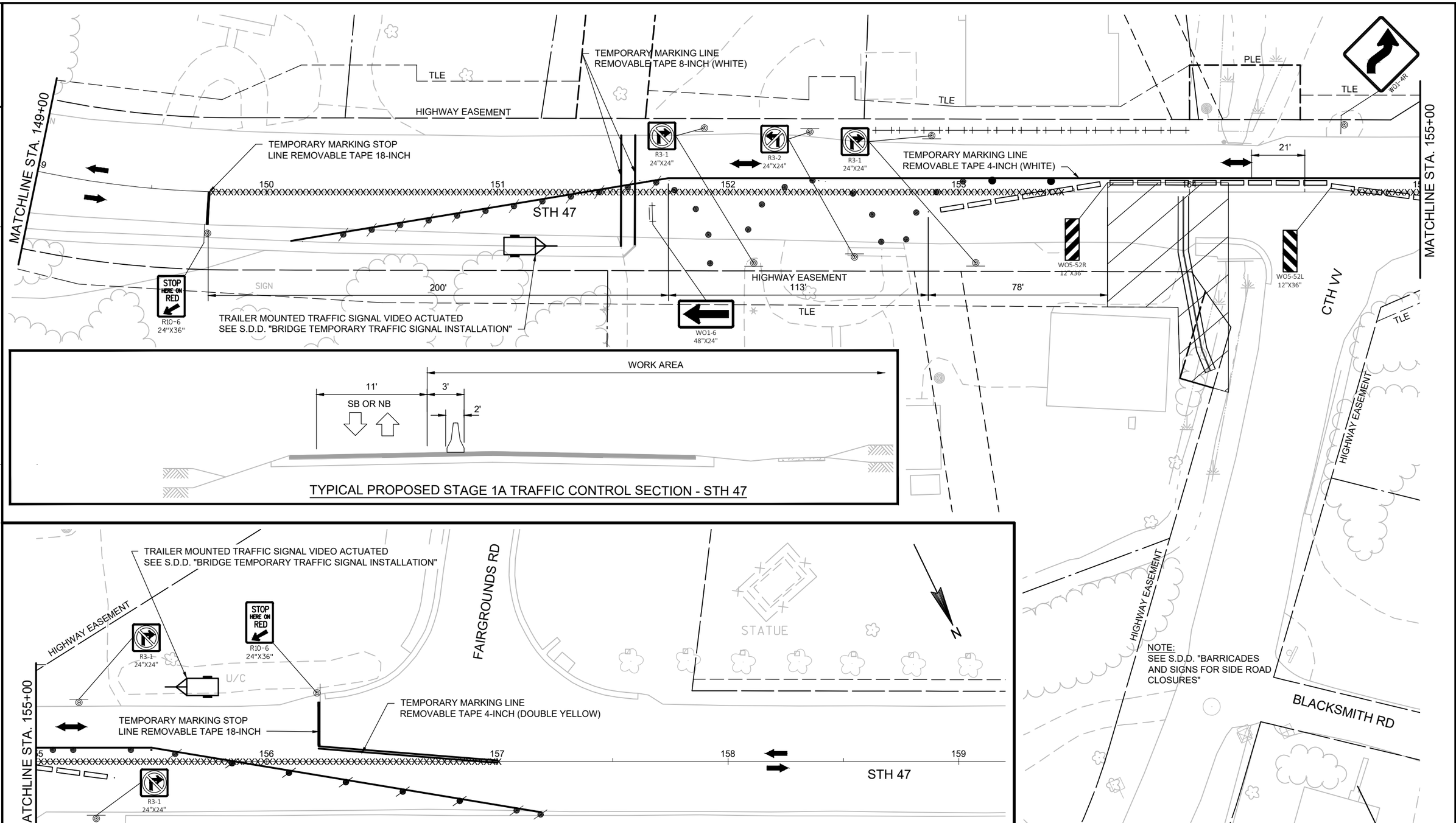
PLACE ON CTH VV EAST OF CTH HH

CTH VV (SOUTH) CLOSED AT STH 47.
SEE S.D.D. "BARRICADES AND SIGNS FOR SIDE ROAD CLOSURES"

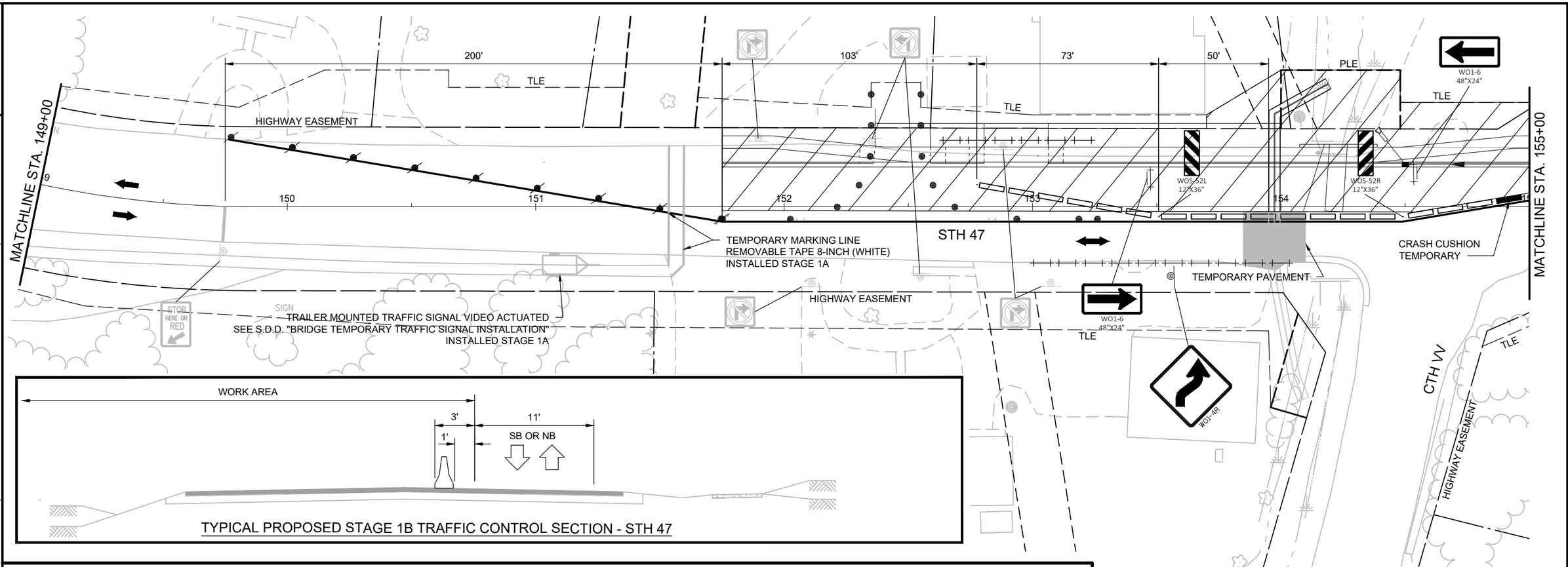
LEGEND - TRAFFIC CONTROL

- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM (PREVIOUSLY INSTALLED)
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT (PREVIOUSLY INSTALLED)
- SIGN ON PERMANENT SUPPORT
- CONCRETE BARRIER TEMPORARY PRECAST
- XXXXXX REMOVING PAVEMENT MARKING

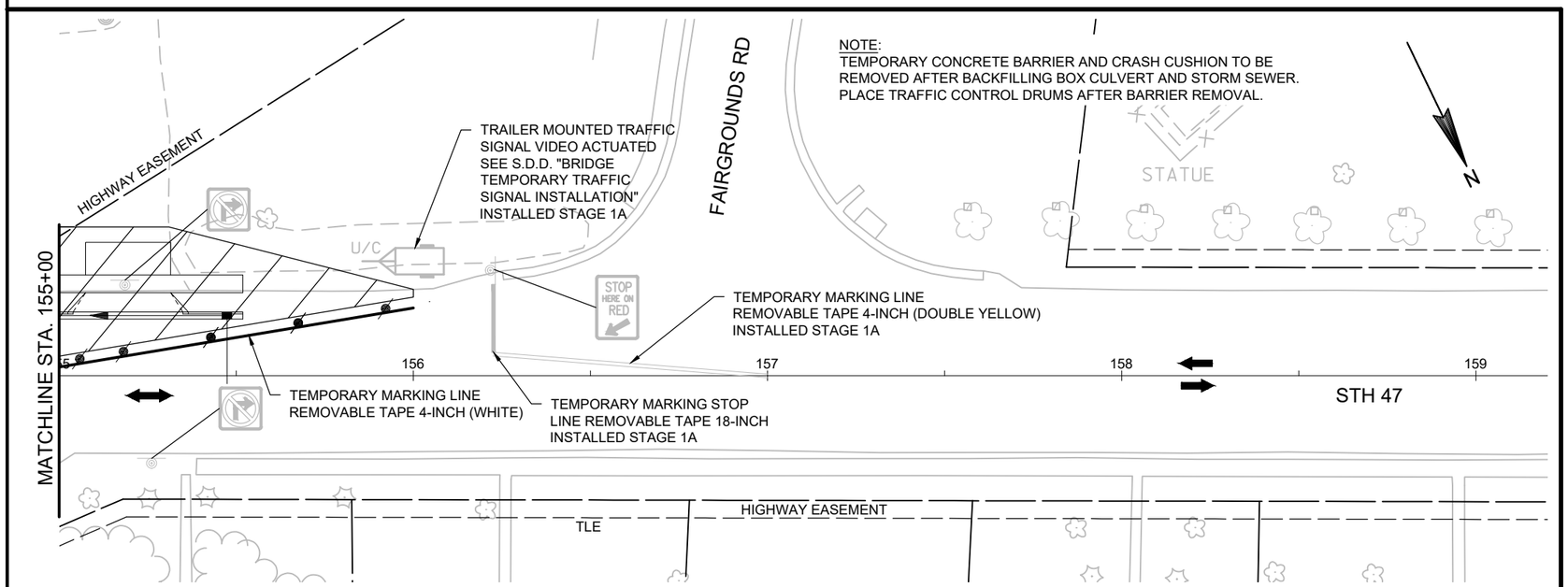
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL - STAGE 1 OVERVIEW	SHEET 137 E

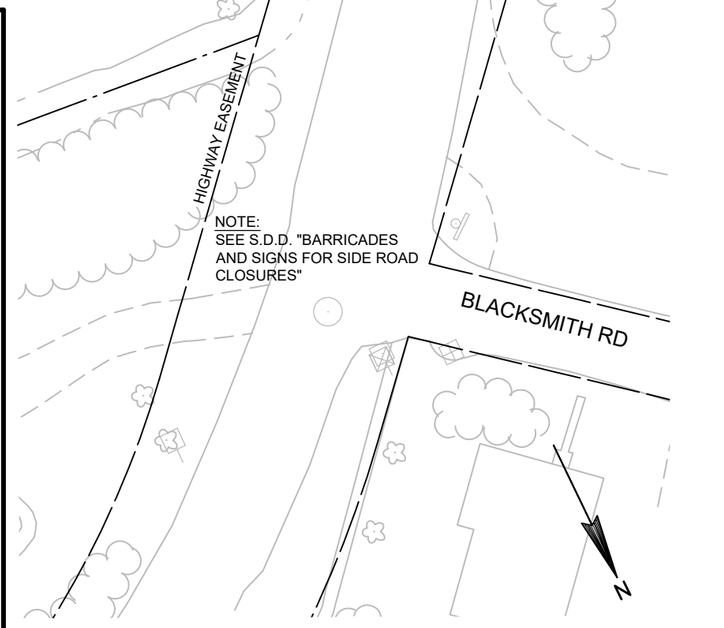


PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL - STAGE 1A	SHEET 138	E



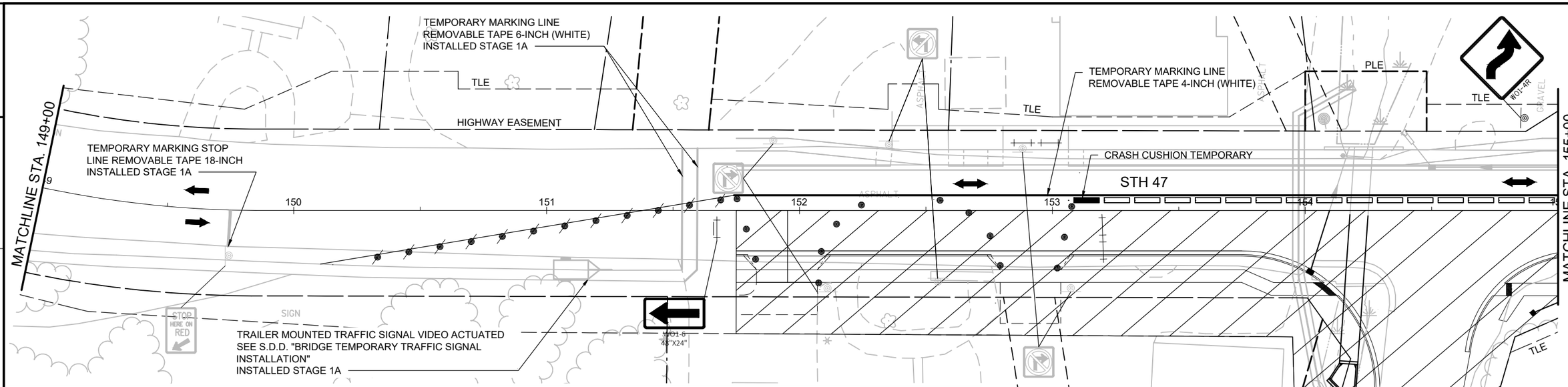
TYPICAL PROPOSED STAGE 1B TRAFFIC CONTROL SECTION - STH 47

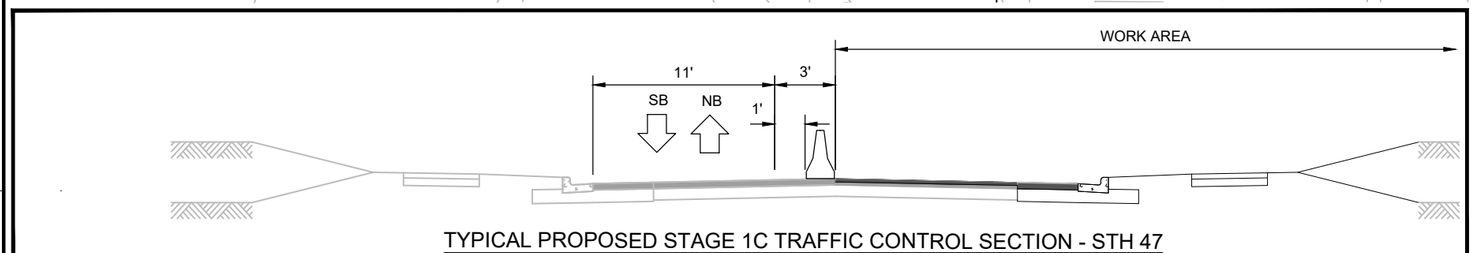




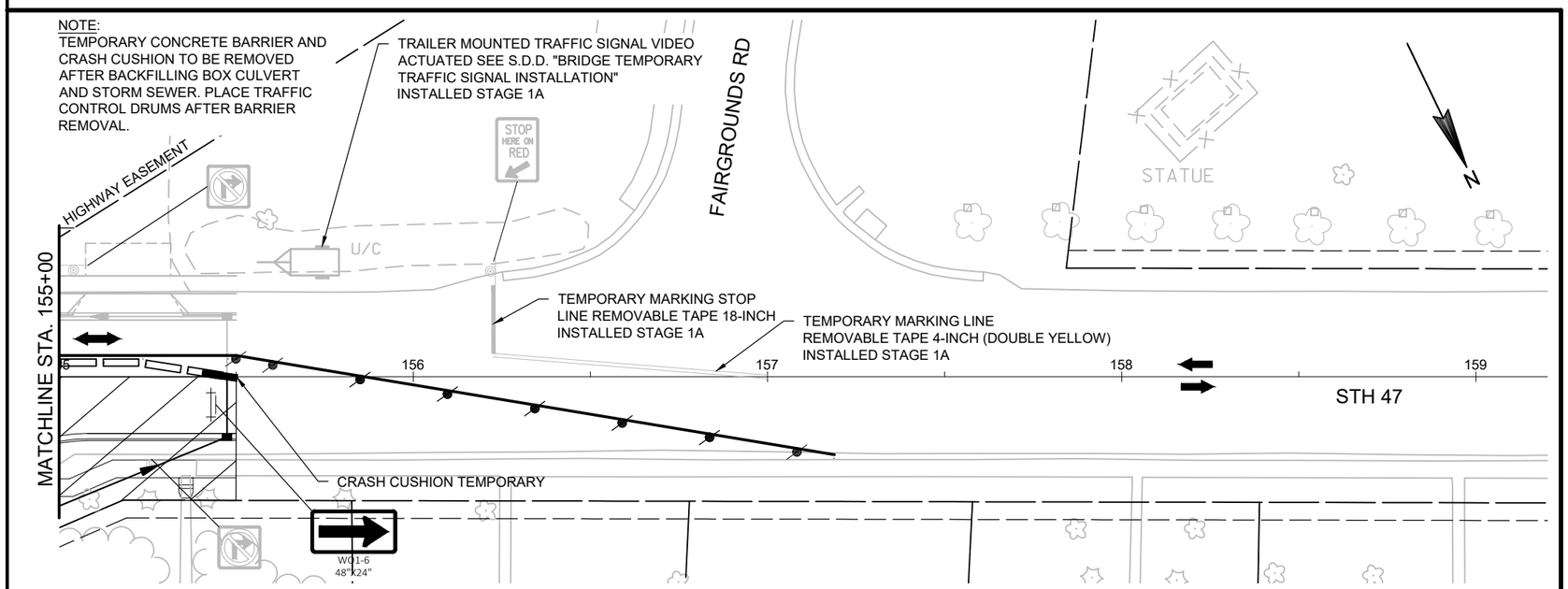
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL - STAGE 1B	SHEET 139	E

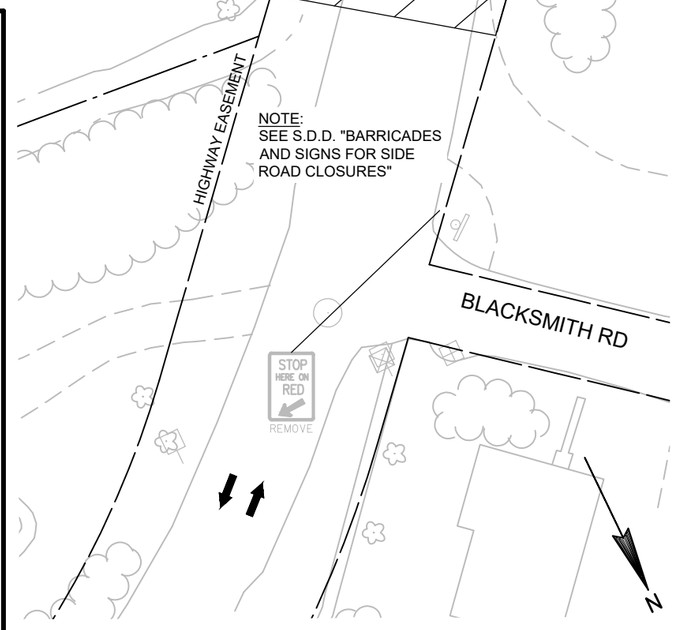
2





TYPICAL PROPOSED STAGE 1C TRAFFIC CONTROL SECTION - STH 47





PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL - STAGE 1C	SHEET 140	E

2

STAGE 2A TRAFFIC

TRAFFIC WILL BE RESTRICTED TO ONE 11 FOOT TRAVEL LANE ON NORTHBOUND STH 47 BETWEEN STH 55 AND CTH VV (NORTH)

STAGE 2B TRAFFIC

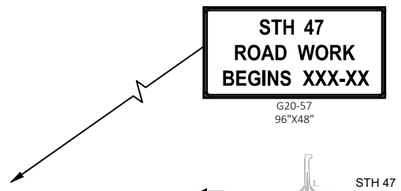
TRAFFIC WILL BE RESTRICTED TO ONE 11 FOOT TRAVEL LANE ON SOUTHBOUND STH 47 BETWEEN STH 55 AND CTH VV (NORTH)

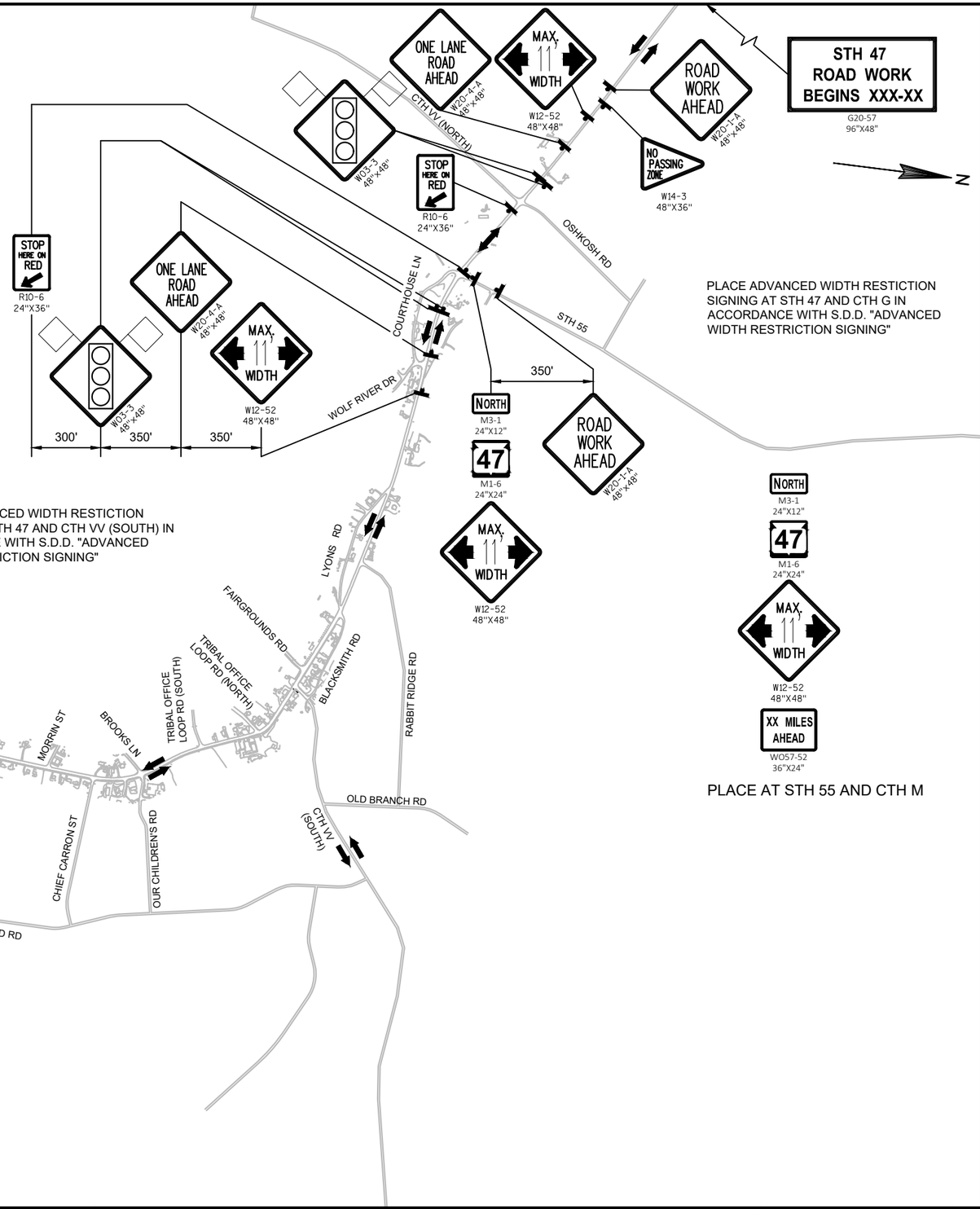
STAGE 2A WORK ITEMS

1. INSTALL PAVEMENT WIDENING
2. INSTALL TEMPORARY SIGNALS
3. INSTALL TEMPORARY CRASH CUSHION AND BARRIER
4. CONSTRUCT SOUTHBOUND BEAMGUARD AND SURFACE DRAIN
5. COMPLETE SOUTHBOUND BRIDGE REHABILITATION (SEE STRUCTURE PLANS)

STAGE 2B WORK ITEMS

1. INSTALL TEMPORARY CRASH CUSHION AND BARRIER
2. CONSTRUCT NORTHBOUND BEAMGUARD AND SURFACE DRAIN
3. COMPLETE NORTHBOUND BRIDGE REHABILITATION (SEE STRUCTURE PLANS)





PLACE ADVANCED WIDTH RESTICTION SIGNING AT STH 47 AND CTH G IN ACCORDANCE WITH S.D.D. "ADVANCED WIDTH RESTRICTION SIGNING"

PLACE ADVANCED WIDTH RESTICTION SIGNING AT STH 47 AND CTH VV (SOUTH) IN ACCORDANCE WITH S.D.D. "ADVANCED WIDTH RESTRICTION SIGNING"

PLACE AT STH 55 AND CTH M

NOTE:
INSTALL TRAFFIC CONTROL SIGNS FIXED MESSAGE ALONG STH 47 AT EACH END OF THE PROJECT 7 DAYS PRIOR TO CONSTRUCTION.
PLACE TRAFFIC CONTROL SIGNS FIXED MESSAGE 0.5 MILES FROM START/ END OF PROJECT LIMITS.

LEGEND - TRAFFIC CONTROL

- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM (PREVIOUSLY INSTALLED)
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT (PREVIOUSLY INSTALLED)
- SIGN ON PERMANENT SUPPORT
- CONCRETE BARRIER TEMPORARY PRECAST
- XXXXXX REMOVING PAVEMENT MARKING

PROJECT NO: 9650-17-61	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL - STAGE 2 OVERVIEW	SHEET 141	E

2

2

COURTHOUSE LN

HIGHWAY EASEMENT

WOLF RIVER

N

TRAILER MOUNTED TRAFFIC SIGNAL VIDEO ACTUATED SEE S.D.D. "BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION"

REFER TO "SDD: TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS" FOR SIGN REQUIREMENTS AND LOCATIONS

RIPRAP

207 208 209 210 211 212

STH 47

MATCHLINE STA. 212+50

TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

5" HMA PAVEMENT
- 2.5" HMA PAVEMENT 4 LT 58-34 S (UPPER)
- 2.5" HMA PAVEMENT 3 LT 58-28 S (LOWER)

SIGN

50' 40' 100'

STOP HERE ON RED
R10-6
24"X36"

RIPRAP

WO5-52L
12"X36"

W01-4R

WO5-52R
12"X36"

RIPRAP

STH 55

HIGHWAY EASEMENT

W

WORK AREA

4' 12'

2'

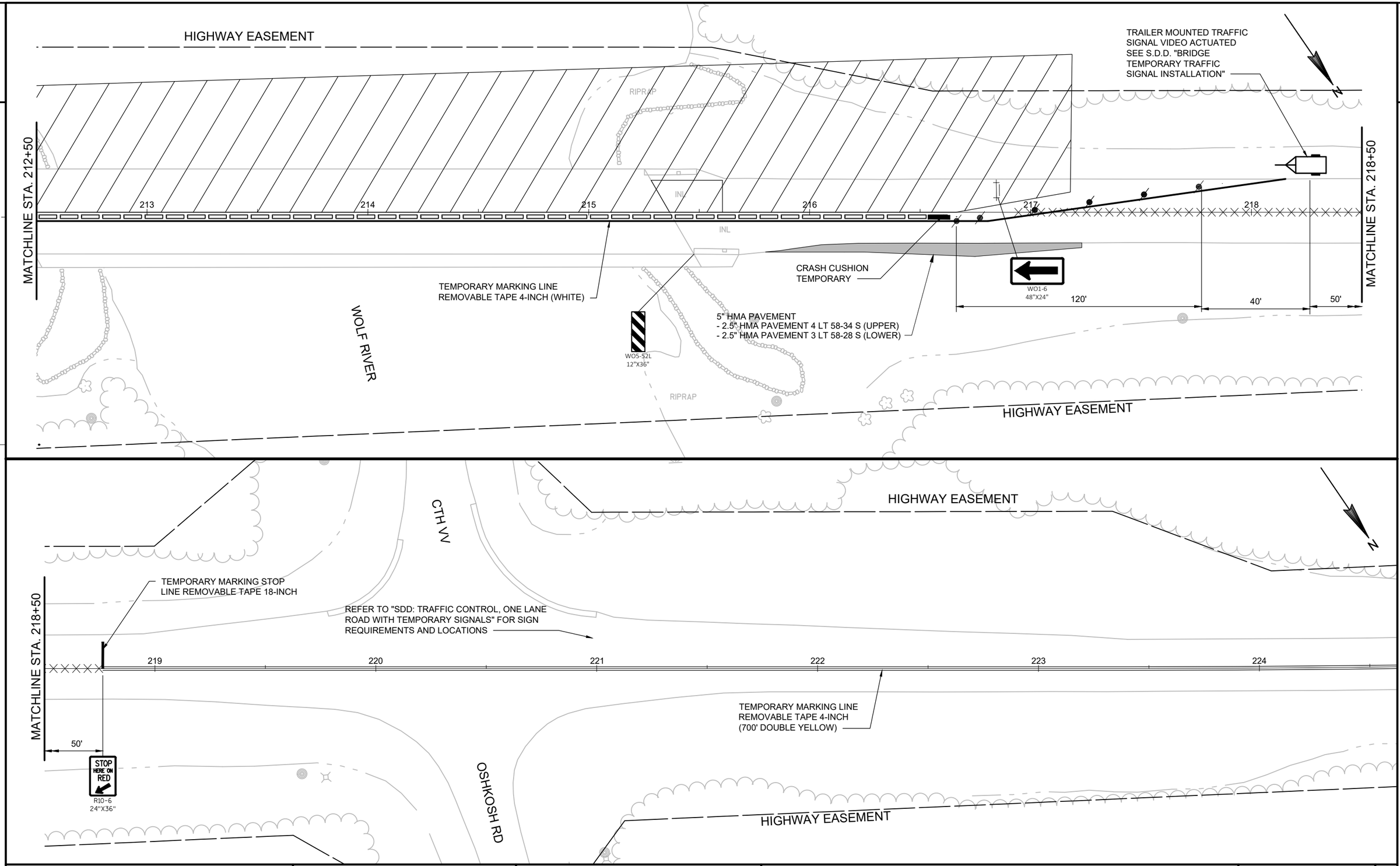
SB OR NB

TYPICAL PROPOSED STAGE 2A TRAFFIC CONTROL SECTION - STH 47

PROJECT NO: 9650-17-61	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL - STAGE 2A	SHEET	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0250_TC_STAGE2A.DWG PLOT DATE : 1/22/2020 11:34 AM PLOT BY : DAY, JOHN PLOT NAME :

WISDOT/CADDS SHEET 42



PROJECT NO: 9650-17-61	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL - STAGE 2A	SHEET E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0250_TC_STAGE2A.DWG PLOT DATE : 1/22/2020 11:34 AM PLOT BY : DAY, JOHN PLOT NAME :

2

2

WOLF RIVER

N

COURTHOUSE LN

HIGHWAY EASEMENT

NOTE: UPON COMPLETION OF ALL BRIDGE WORK AT THIS LOCATION, REPLACE CENTERLINE PAVEMENT MARKINGS FROM STA. 209+50 TO STA. 211+35 WITH TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)

TRAILER MOUNTED TRAFFIC SIGNAL VIDEO ACTUATED SEE S.D.D. "BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION"

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

WG5-52L
12"X36"

RIPRAP

MATCHLINE STA. 212+50

REFER TO "SDD: TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS" FOR SIGN REQUIREMENTS AND LOCATIONS

207 208 209 210 211 212

STH 47

TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH INSTALLED STAGE 2A

WO1-6
48"X24"

RIPRAP
CRASH CUSHION TEMPORARY

SIGN

50' 40' 100'

STOP HERE ON RED
R10-6
24"X36"

RIPRAP

STH 55

HIGHWAY EASEMENT

W

WORK AREA

12' 4' 2'

SB OR NB

TYPICAL PROPOSED STAGE 2B TRAFFIC CONTROL SECTION - STH 47

PROJECT NO: 9650-17-61	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL - STAGE 2B	SHEET	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0250_TC_STAGE2B.DWG PLOT DATE : 1/28/2020 8:51 AM PLOT BY : DAY, JOHN PLOT NAME :

WISDOT/CADDS SHEET 42

2

HIGHWAY EASEMENT

NOTE: UPON COMPLETION OF ALL BRIDGE WORK AT THIS LOCATION, REPLACE CENTERLINE PAVEMENT MARKINGS FROM STA. 217+00 TO STA. 218+75 WITH TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)

TRAILER MOUNTED TRAFFIC SIGNAL VIDEO ACTUATED SEE S.D.D. "BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION"

WO5-52R 12"X36"

RIPRAP

WO1-4R

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

MATCHLINE STA. 212+50

INL

213 214 215 216 217 218

MATCHLINE STA. 218+50

120' 40' 50'

WO5-52L 12"X36"

WOLF RIVER

RIPRAP

HIGHWAY EASEMENT

CTH VV

HIGHWAY EASEMENT

N

TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH INSTALLED STAGE 2A

REFER TO "SDD: TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS" FOR SIGN REQUIREMENTS AND LOCATIONS

MATCHLINE STA. 218+50

219 220 221 222 223 224

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (700' DOUBLE YELLOW) INSTALLED STAGE 2A

50'

STOP HERE ON RED

R10-6 24"X36"

OSHKOSH RD

HIGHWAY EASEMENT

PROJECT NO: 9650-17-61	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL - STAGE 2B	SHEET	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0250_TC_STAGE2B.DWG PLOT DATE : 1/28/2020 8:51 AM PLOT BY : DAY, JOHN PLOT NAME :

WISDOT/CADDS SHEET 42

STAGE 3 TRAFFIC

STAGE 3A - ALL TRAFFIC WILL REMAIN ON STH 47. DURING CONSTRUCTION ACTIVITIES, TRAFFIC WILL BE REDUCED TO ONE LANE ALONG STH 47 AND FLAGGING OPERATION WILL BE USED.

STAGE 3B - SOUTHBOUND TRAFFIC WILL REMAIN ON STH 47. NORTHBOUND TRAFFIC WILL BE DETOURED FROM DUQUAINE RD TO CTH VV (SOUTH).

NOTES:

ALL RIGHT-TURNS FROM THE EAST SIDE STREETS AND ALL LEFT-TURNS FROM THE WEST SIDE STREETS WILL BE PROHIBITED DURING STAGE 3B CONSTRUCTION.

ACCESS TO BE MAINTAINED TO DODGE ROAD, TRIBAL OFFICE LOOP ROAD (SOUTH), AND TRIBAL OFFICE LOOP ROAD (NORTH) AT ALL TIMES. MORRIN STREET AND BROOKS LANE WILL NEED TO BE CLOSED BUT WILL NOT BE ALLOWED TO BE CLOSED AT THE SAME TIME. CONSTRUCT MAIN ENTRANCE TO MENOMINEE INDIAN HIGH SCHOOL HALF AT A TIME TO ALLOW BUS/ VEHICLE TRAFFIC.

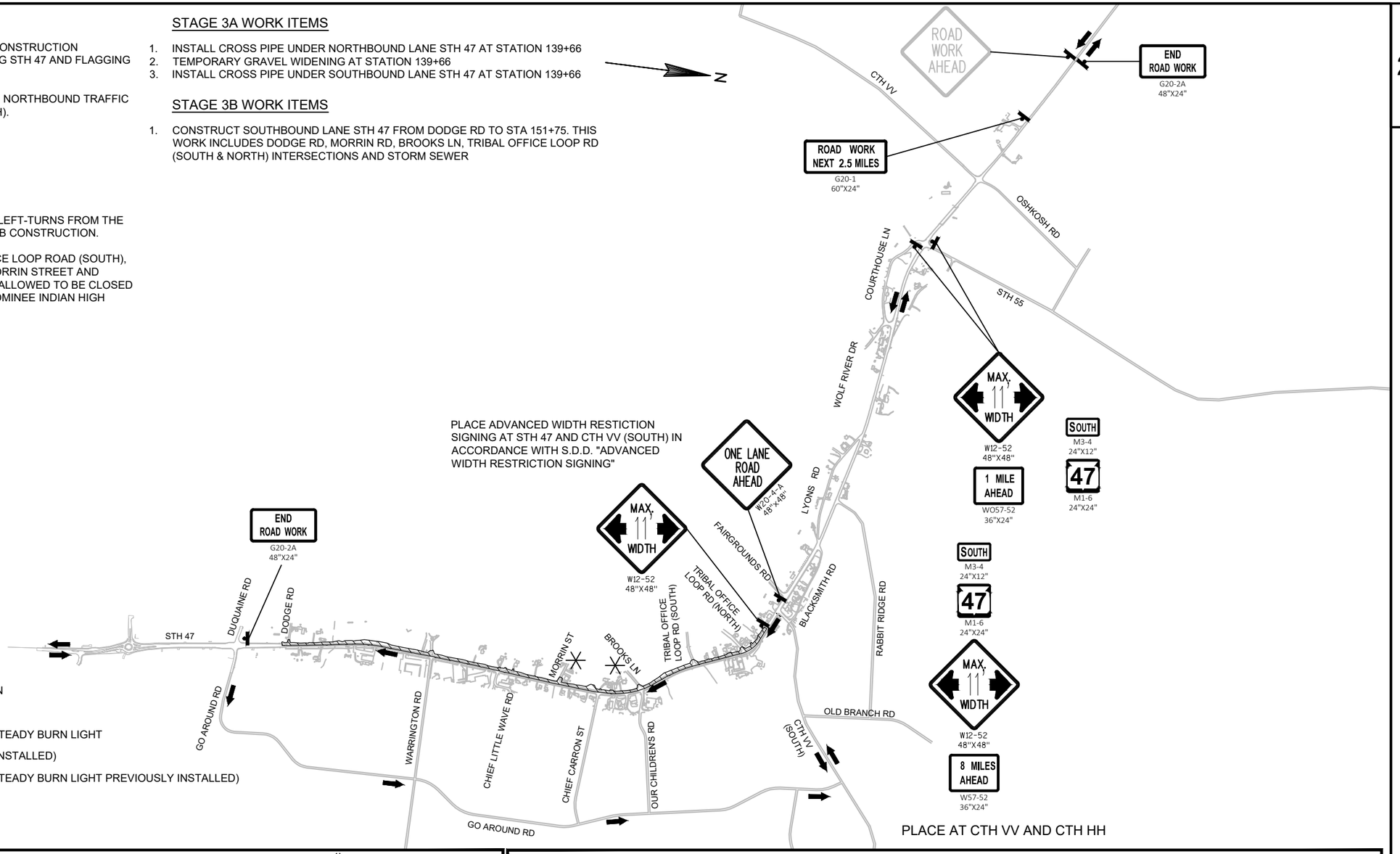
SEE STANDARD DETAIL DRAWING
"BARRICADES AND SIGNS FOR SIDEROAD CLOSURES"
DETAIL1

STAGE 3A WORK ITEMS

1. INSTALL CROSS PIPE UNDER NORTHBOUND LANE STH 47 AT STATION 139+66
2. TEMPORARY GRAVEL WIDENING AT STATION 139+66
3. INSTALL CROSS PIPE UNDER SOUTHBOUND LANE STH 47 AT STATION 139+66

STAGE 3B WORK ITEMS

1. CONSTRUCT SOUTHBOUND LANE STH 47 FROM DODGE RD TO STA 151+75. THIS WORK INCLUDES DODGE RD, MORRIN RD, BROOKS LN, TRIBAL OFFICE LOOP RD (SOUTH & NORTH) INTERSECTIONS AND STORM SEWER

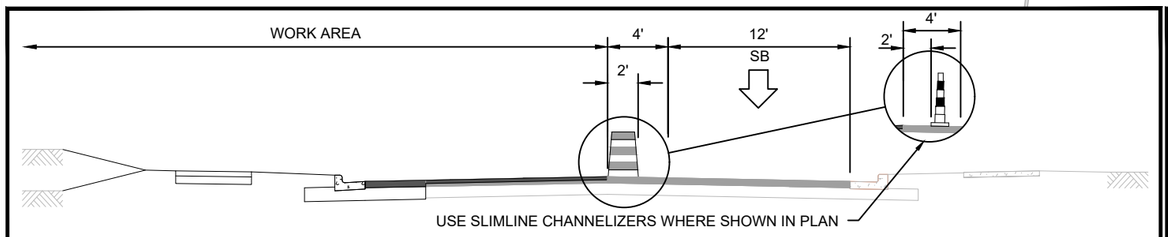


PLACE ADVANCED WIDTH RESTICTION SIGNING AT STH 47 AND CTH VV (SOUTH) IN ACCORDANCE WITH S.D.D. "ADVANCED WIDTH RESTRICTION SIGNING"

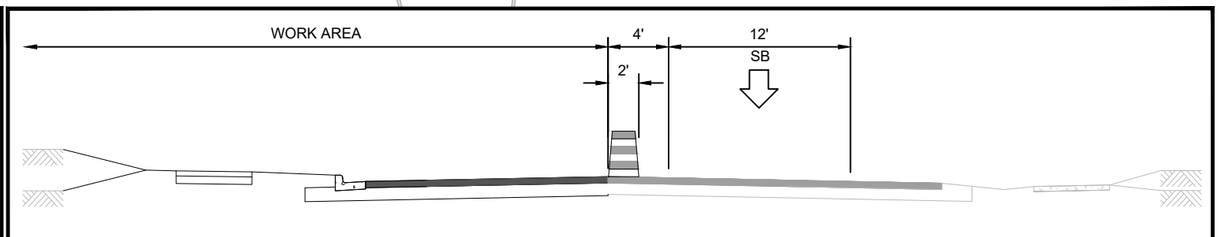
PLACE AT CTH VV AND CTH HH

LEGEND - TRAFFIC CONTROL

- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM (PREVIOUSLY INSTALLED)
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT PREVIOUSLY INSTALLED)
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT



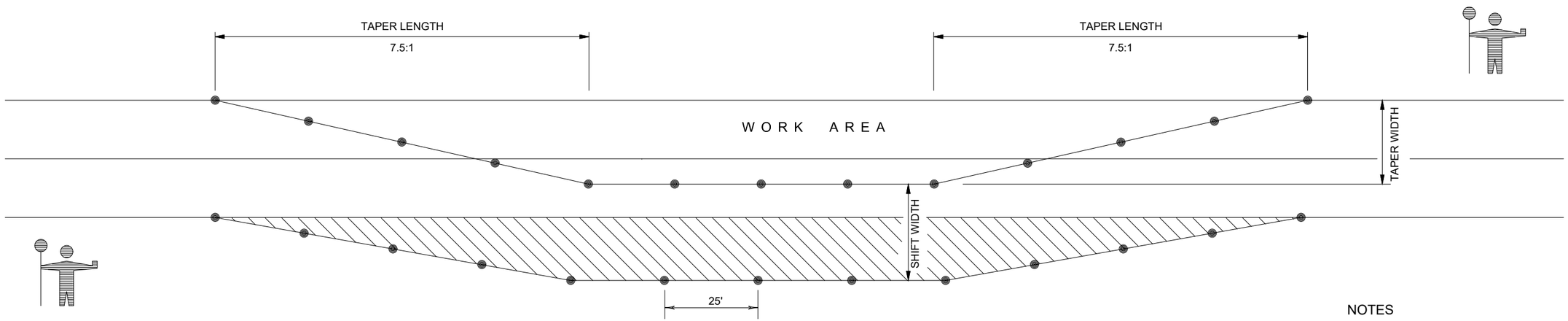
TYPICAL PROPOSED STAGE 3B TRAFFIC CONTROL SECTION - STH 47
STA 82+45 - STA 146+00

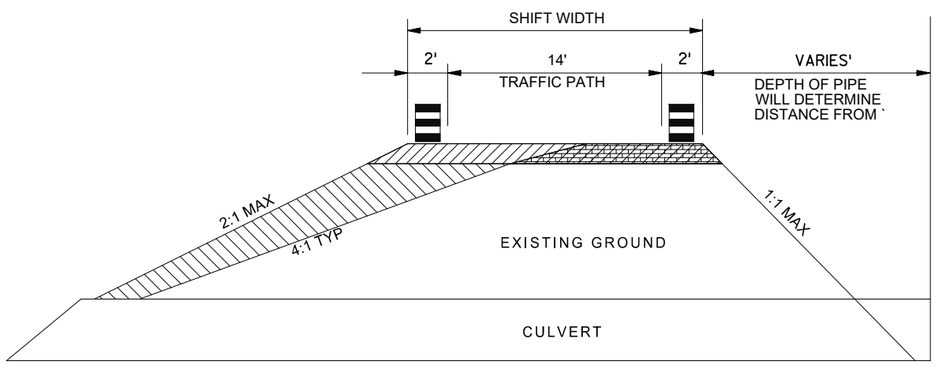


TYPICAL PROPOSED STAGE 3B TRAFFIC CONTROL SECTION - STH 47
STA 146+00 - STA 151+75

PROJECT NO: 9650-17-61/70	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL - STAGE 3 OVERVIEW	SHEET E

2





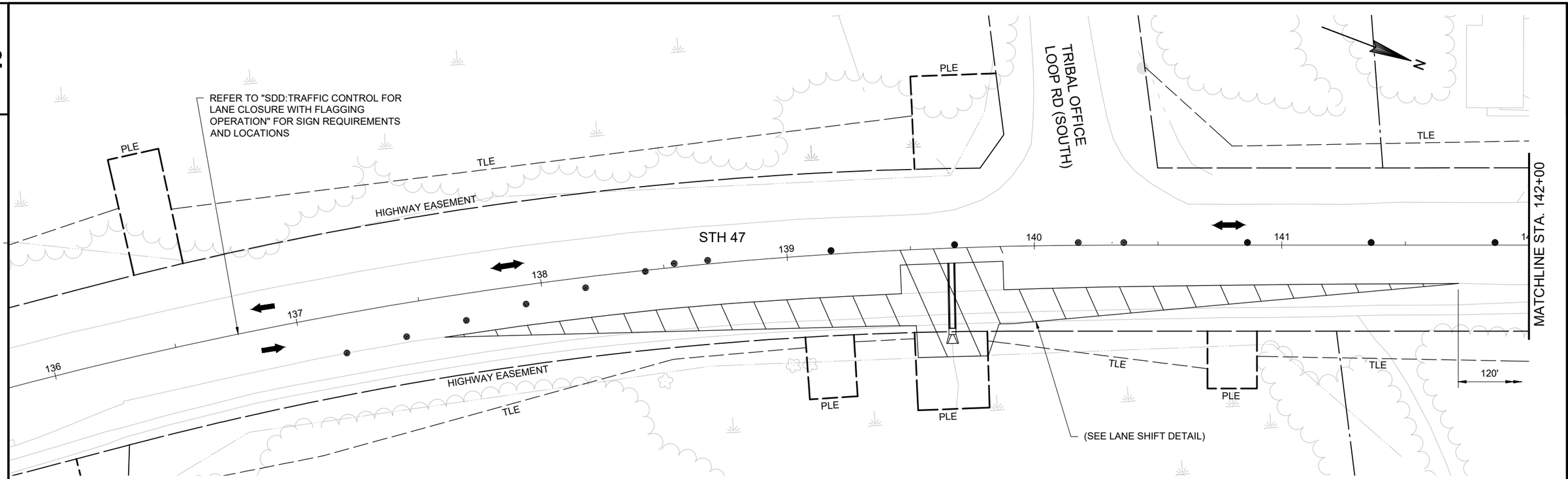
LANE SHIFT DETAIL

STA 139+66 CROSS CULVERT

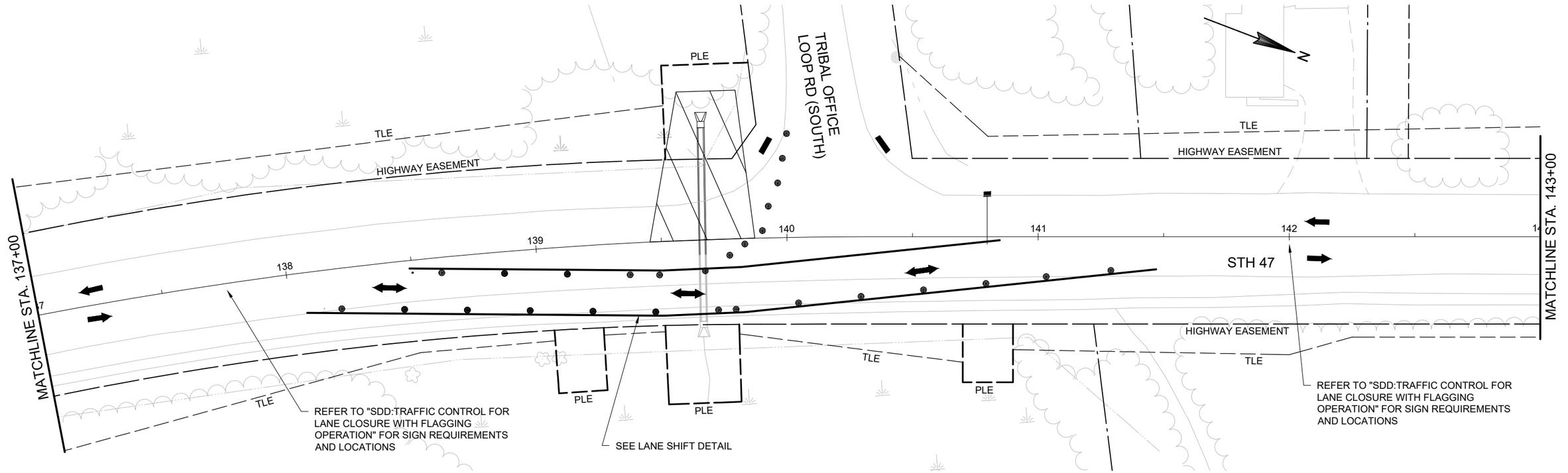
NOTES

1. USE WITH SDD "TRAFFIC CONTROL FOR LANE CLOSURE"
2. FLAGGERS ARE SPECIFIC TO THIS OPERATION
3. THE TAPER SHOULD EXTEND ACROSS THE SHOULDER UNLESS DOING SO WOULD GREATLY CONFLICT WITH THE WORK OPERATION
4. 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
5. CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM TRAVEL LANE WHEN WORK IS NOT IN PROGRESS

KEY	
●	DRUM WITHOUT WARNING LIGHT
▨	FILL - INCIDENTAL TO LANE SHIFT ITEM
▨	EXISTING PAVED SURFACE OR 6" BASE AGGREGATE DENSE 1 1/4 INCH - INCIDENTAL TO LANE SHIFT ITEM
▨	6" BASE AGGREGATE DENSE 1 1/4 INCH - INCIDENTAL TO LANE SHIFT ITEM



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL-STAGE 3A CROSS PIPE STH 47 NB INSTALLATION	SHEET 148	E



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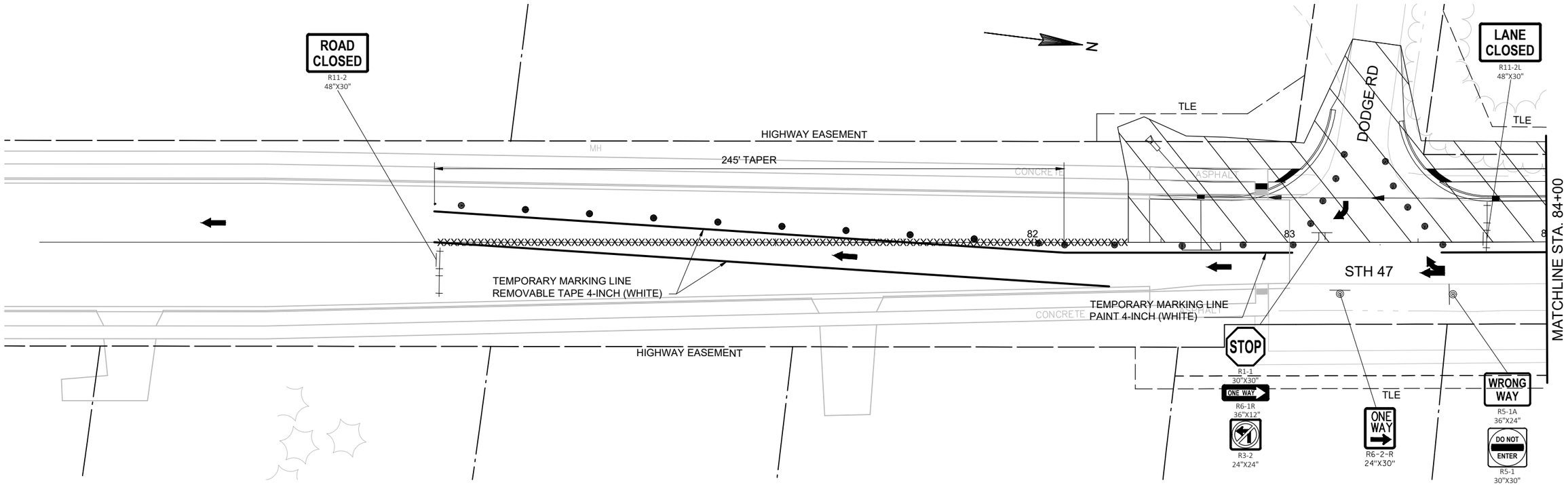
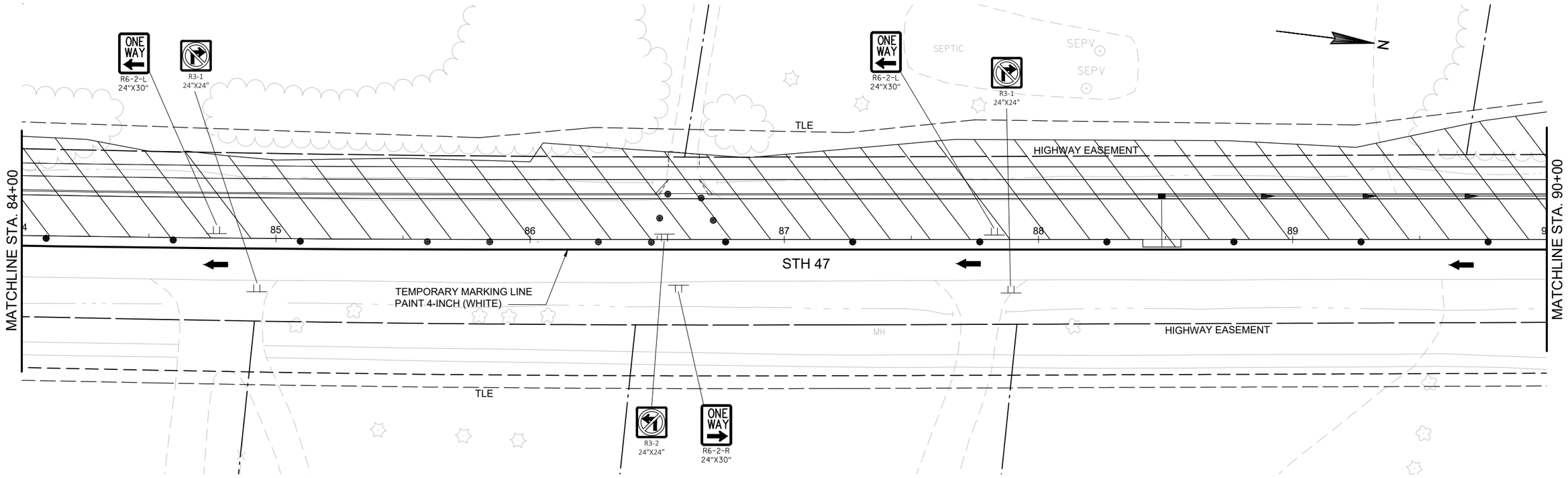
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL-STAGE 3A CROSS PIPE STH 47 SB INSTALLATION	SHEET	E

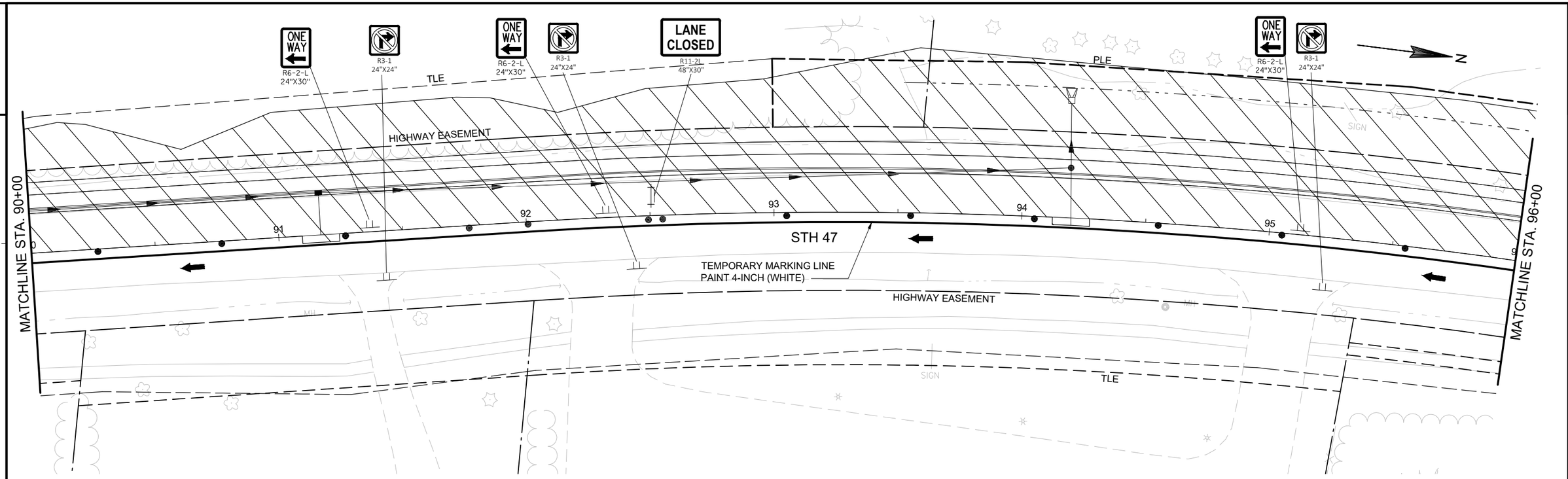
FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0250_TC_STAGE3A.DWG PLOT DATE : 1/22/2020 1:34 PM PLOT BY : DAY, JOHN PLOT NAME :
WISDOT/CADDS SHEET 42





PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL - STAGE 3B	SHEET	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0250_TC_STAGE3B.DWG PLOT DATE : 1/28/2020 9:15 AM PLOT BY : DAY, JOHN PLOT NAME :



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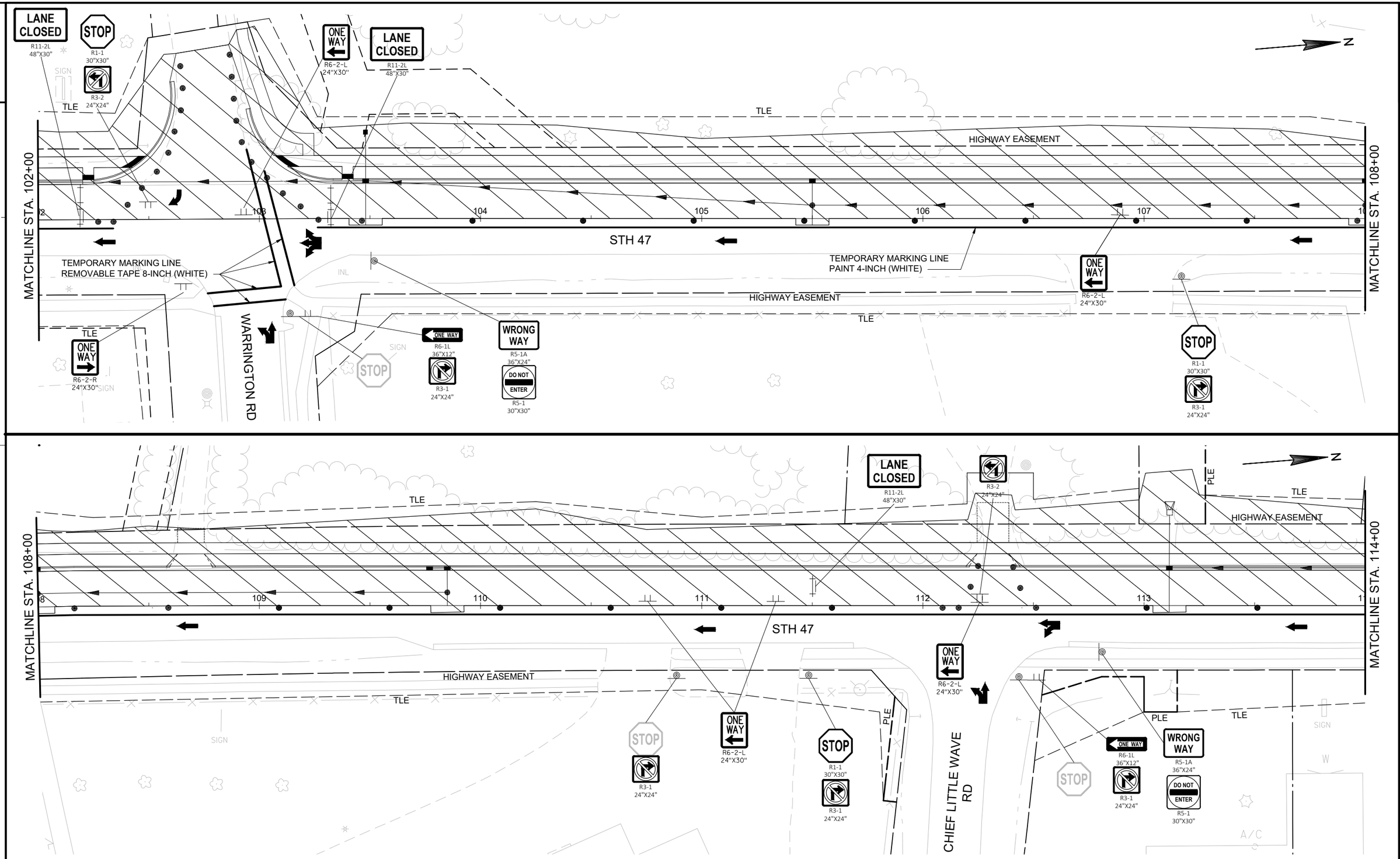
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL - STAGE 3B	SHEET	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0250_TC_STAGE3B.DWG PLOT DATE : 1/28/2020 9:15 AM PLOT BY : DAY, JOHN PLOT NAME :
WISDOT/CADDS SHEET 42



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL - STAGE 3B	SHEET E

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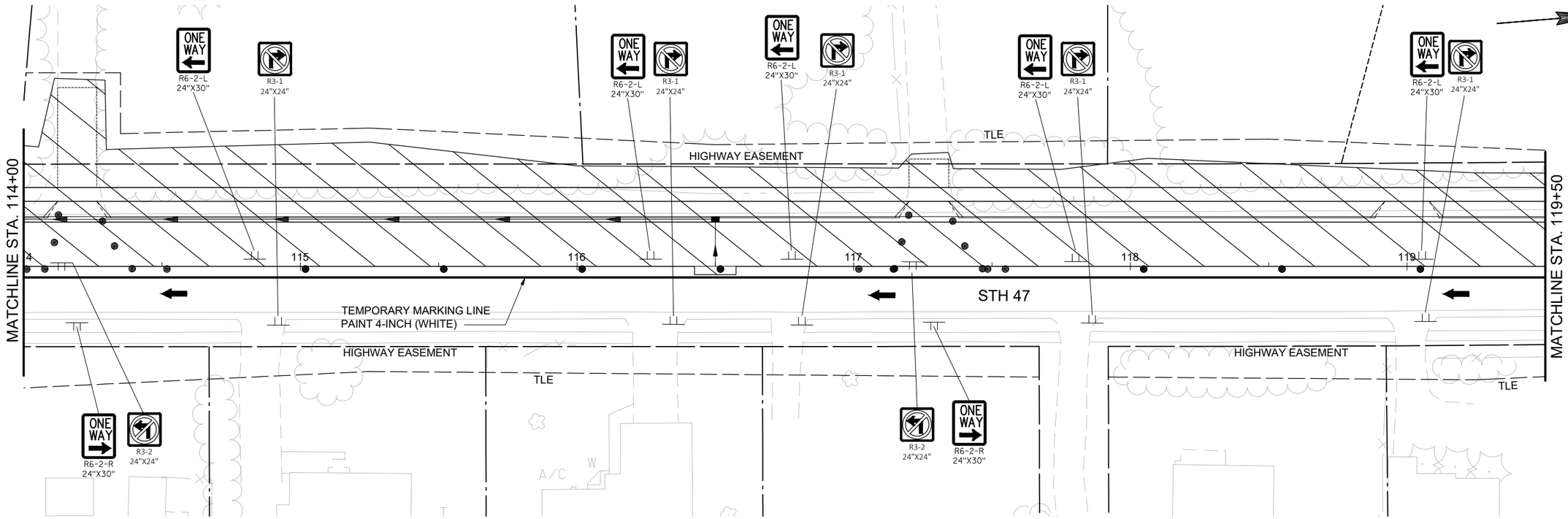

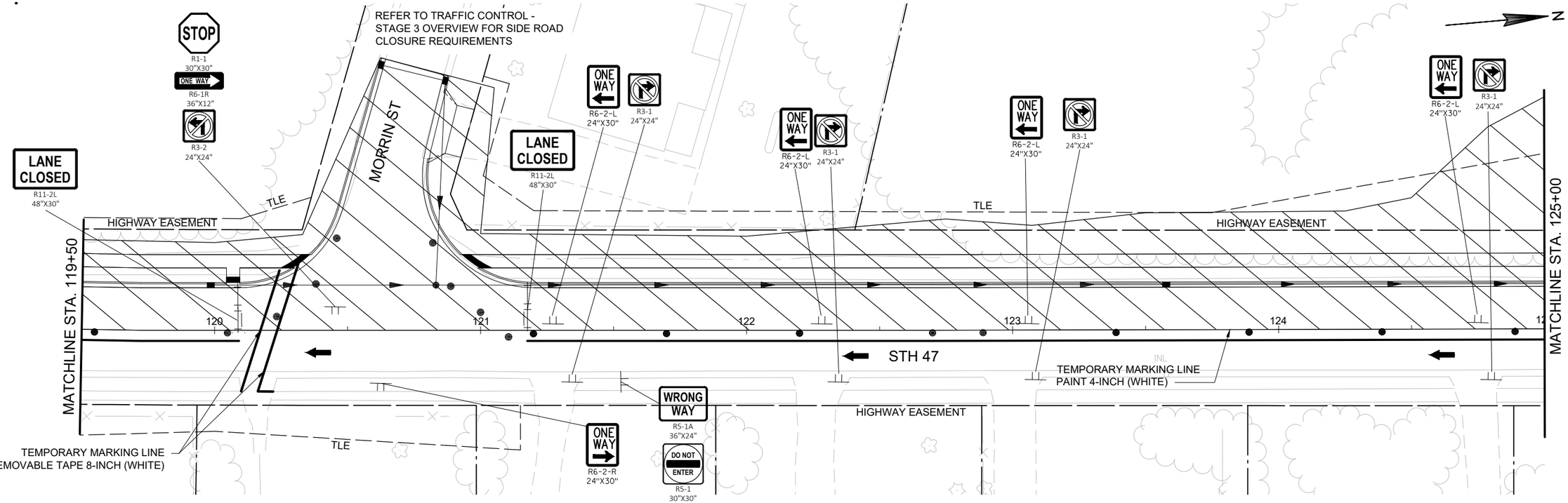

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL - STAGE 3B	SHEET E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0250_TC_STAGE3B.DWG PLOT DATE : 1/28/2020 9:16 AM PLOT BY : DAY, JOHN PLOT NAME :

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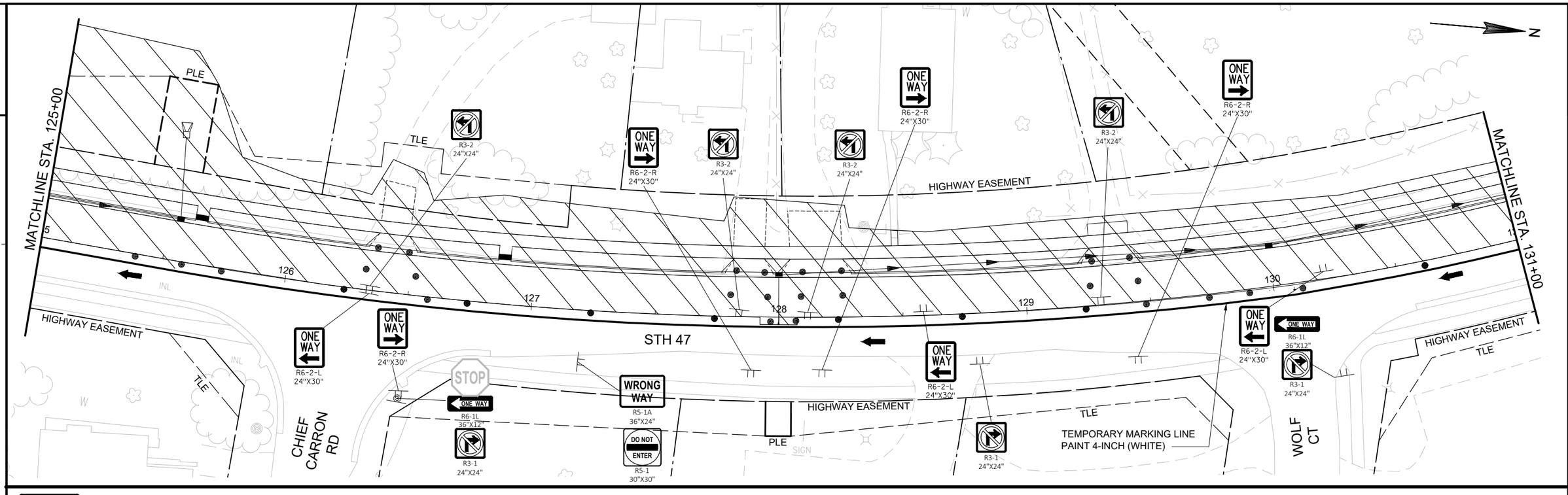
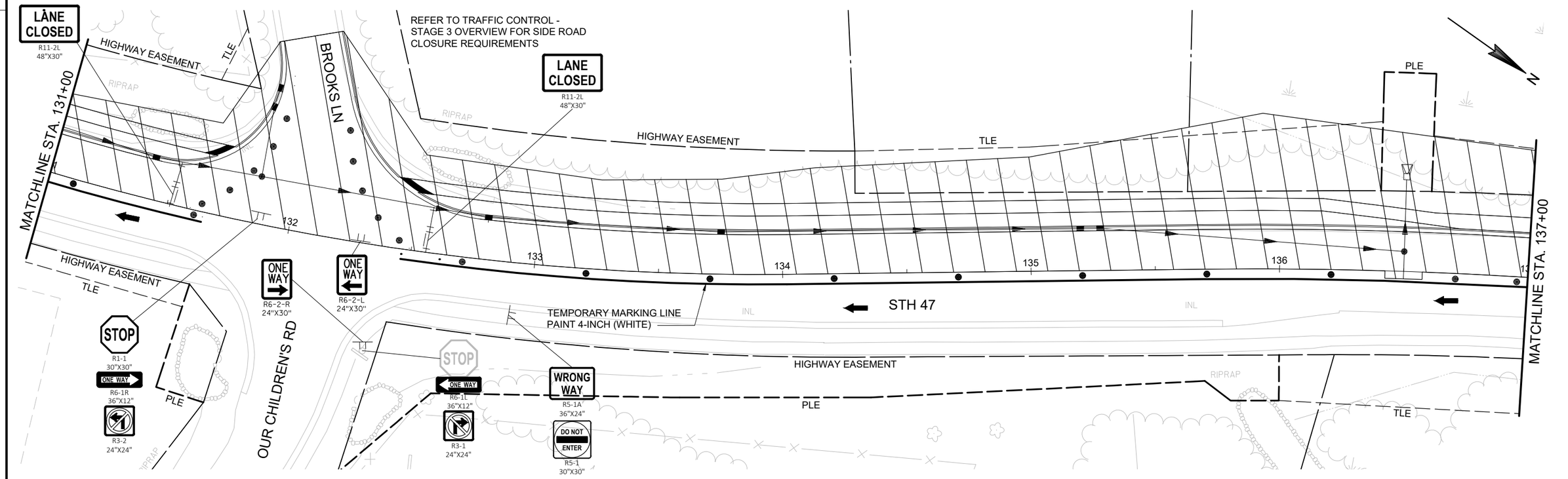




PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL - STAGE 3B	SHEET 154 E

2

LANE CLOSED
R11-2L
48"X30"

LANE CLOSED
R11-2L
48"X30"

LANE CLOSED
R11-2L
48"X30"

TRIBAL OFFICE LOOP RD (SOUTH)

PLE

TLE

HIGHWAY EASEMENT

MATCHLINE STA. 137+00

MATCHLINE STA. 143+00

137

138

139

140

141

142

STH 47

TEMPORARY MARKING LINE
PAINT 4-INCH (WHITE)

STAGE 2B
(SEE LANE SHIFT DETAIL)

STOP
R1-1
30"X30"

ONE WAY
R6-1R
36"X12"

ONE WAY
R6-2-R
24"X30"

R3-2
24"X24"

WRONG WAY
R5-1A
36"X24"

DO NOT ENTER
R5-1
30"X30"

R3-2
24"X24"

ONE WAY
R6-2-R
24"X30"

N

TRIBAL OFFICE LOOP RD (NORTH)

MATCHLINE STA. 149+00

143

144

145

146

147

148

STH 47

TEMPORARY MARKING LINE
PAINT 4-INCH (WHITE)

TEMPORARY MARKING LINE
REMOVABLE TAPE 8-INCH (WHITE)

SIGN

R3-2
24"X24"

ONE WAY
R6-2-R
24"X30"

R3-1
24"X24"

ONE WAY
R6-2-R
24"X30"

ONE WAY
R6-2-R
24"X30"

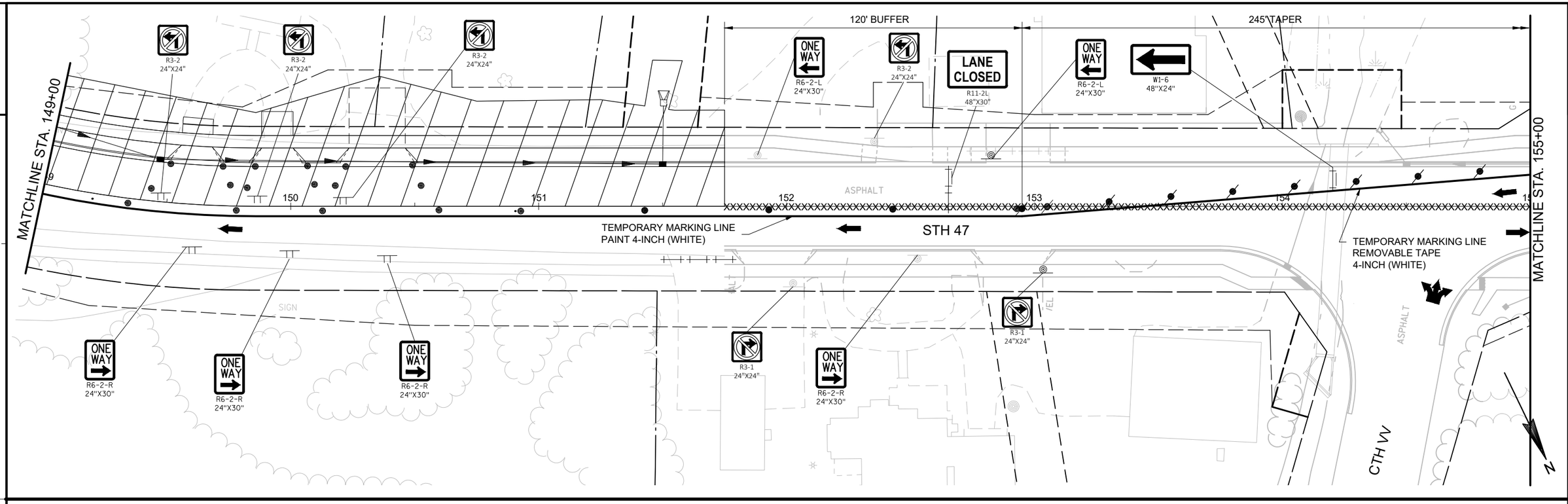
WRONG WAY
R5-1A
36"X24"

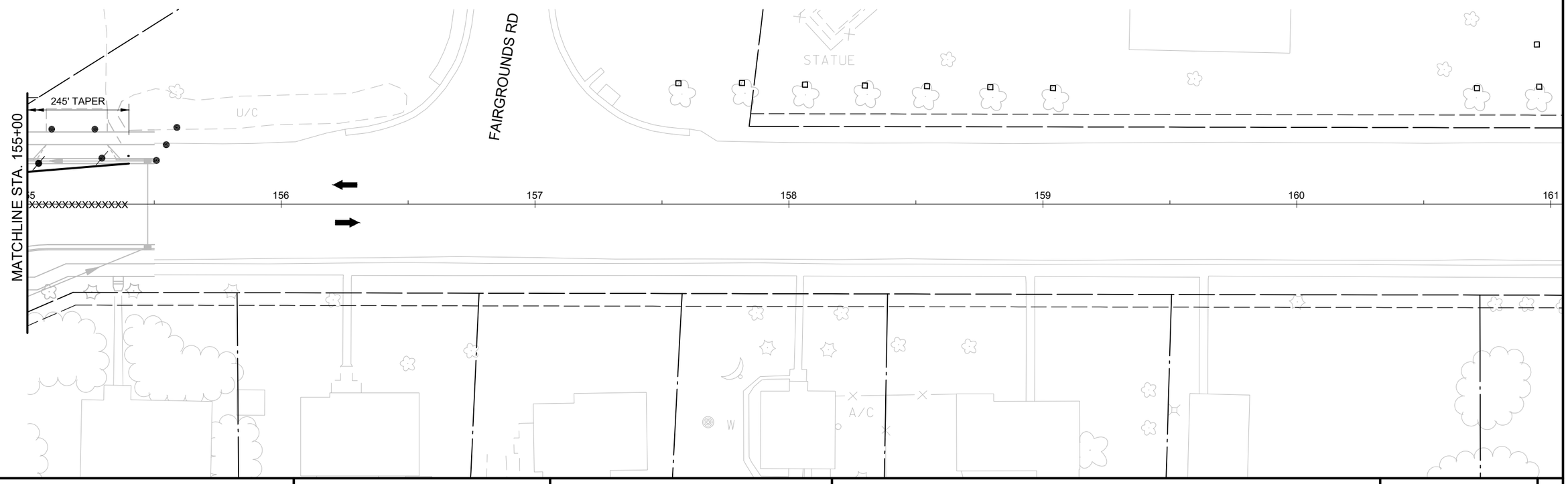
DO NOT ENTER
R5-1
30"X30"

R3-2
24"X24"

ONE WAY
R6-2-R
24"X30"

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL - STAGE 3B	SHEET 155	E





PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL - STAGE 3B	SHEET	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0250_TC_STAGE3B.DWG PLOT DATE : 1/28/2020 9:17 AM PLOT BY : DAY, JOHN PLOT NAME :

2

STAGE 4 TRAFFIC

SOUTHBOUND TRAFFIC WILL REMAIN ON STH 47. NORTHBOUND TRAFFIC WILL CONTINUE TO BE DETOURED FROM DUQUAINE RD TO CTH VV (SOUTH).

STAGE 4 WORK ITEMS

1. CONSTRUCT NORTHBOUND LANE STH 47 FROM DODGE RD TO STA 151+75. THIS WORK INCLUDES WARRINGTON RD, CHIEF LITTLE WAVE RD, CHIEF CARRON RD, OUR CHILDREN RD INTERSECTIONS AND STORM SEWER

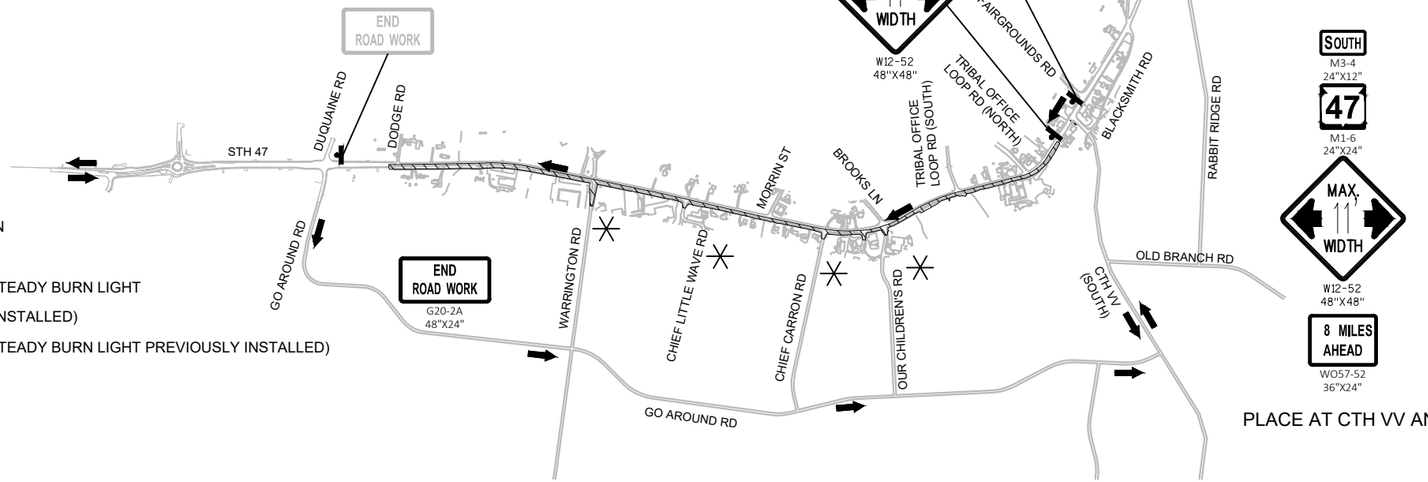
NOTES:

ALL RIGHT-TURNS FROM THE EAST SIDE STREETS AND ALL LEFT-TURNS FROM THE WEST SIDE STREETS WILL BE PROHIBITED DURING CONSTRUCTION.

CLOSE WARRINGTON ROAD ONLY WHEN CHIEF CARRON ROAD IS OPEN. CLOSE CHIEF LITTLE WAVE ROAD ONLY WHEN CHIEF CARRON ROAD IS OPEN AND CLOSE CHIEF CARRON ROAD ONLY WHEN CHIEF LITTLE WAVE ROAD AND WARRINGTON ROAD ARE OPEN. CLOSE OUR CHILDREN'S ROAD ONLY WHEN CHIEF CARRON ROAD IS OPEN.

SEE STANDARD DETAIL DRAWING
"BARRICADES AND SIGNS FOR SIDEROAD CLOSURES"
DETAIL1

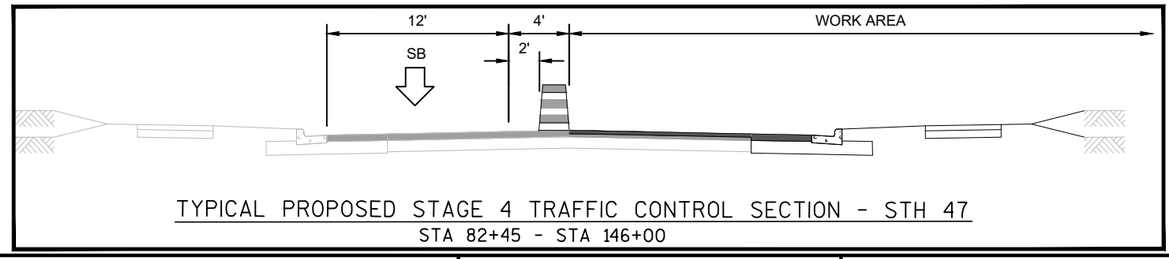
PLACE ADVANCED WIDTH RESTRICTION SIGNING AT STH 47 AND CTH VV (SOUTH) IN ACCORDANCE WITH S.D.D. "ADVANCED WIDTH RESTRICTION SIGNING."



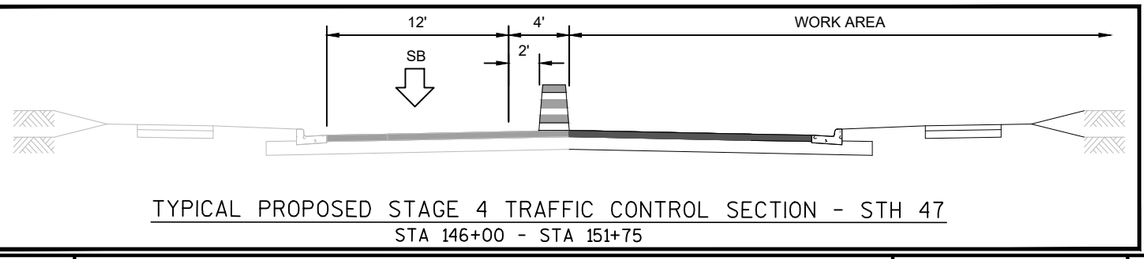
PLACE AT CTH VV AND CTH HH

LEGEND - TRAFFIC CONTROL

- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM (PREVIOUSLY INSTALLED)
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT PREVIOUSLY INSTALLED)
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT



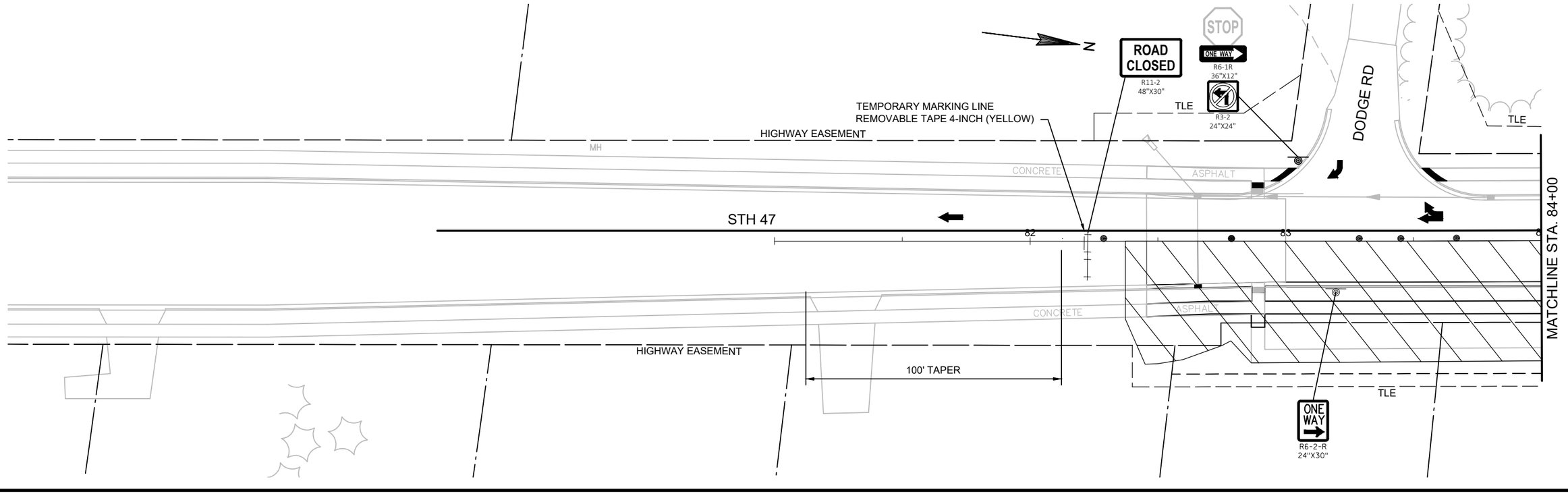
TYPICAL PROPOSED STAGE 4 TRAFFIC CONTROL SECTION - STH 47
STA 82+45 - STA 146+00

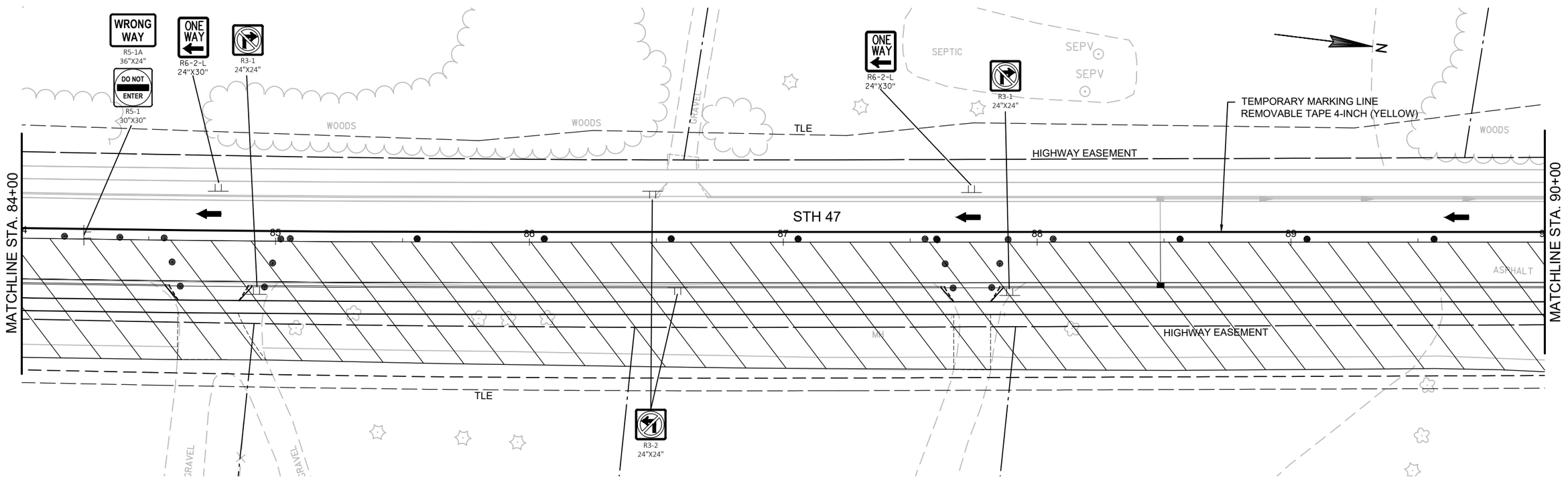


TYPICAL PROPOSED STAGE 4 TRAFFIC CONTROL SECTION - STH 47
STA 146+00 - STA 151+75

PROJECT NO: 9650-17-61/70	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL - STAGE 4 OVERVIEW	SHEET	E

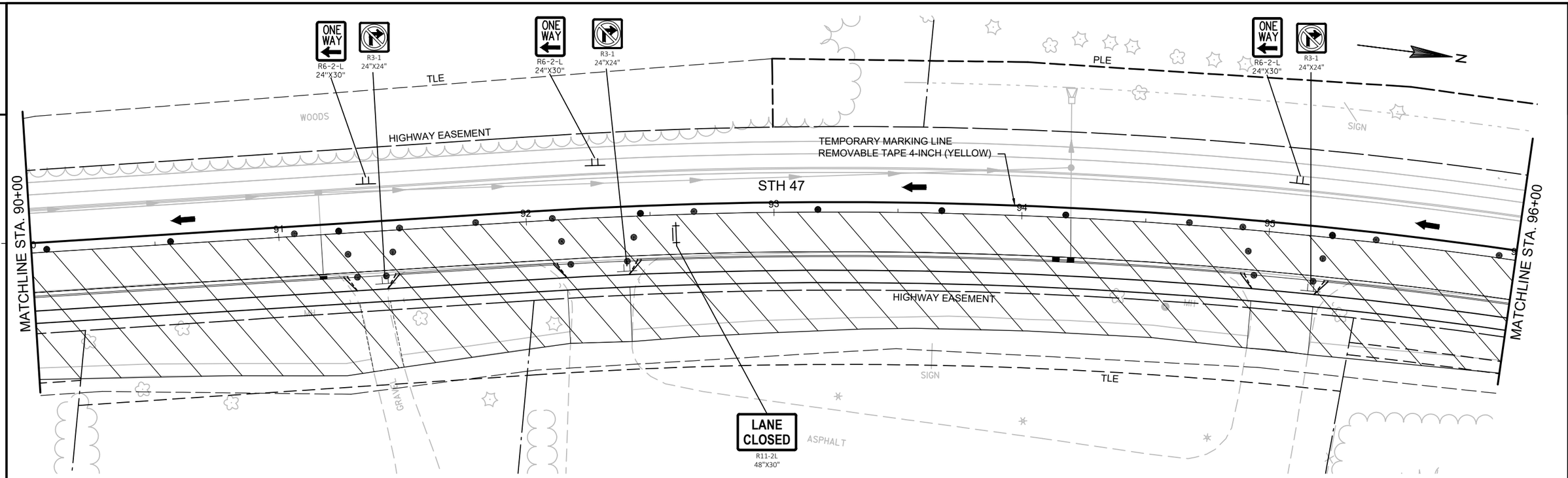
FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0250_TC_STAGE4_OVERVIEW.DWG PLOT DATE : 1/8/2020 3:00 PM PLOT BY : DAY, JOHN PLOT NAME :
WISDOT/CADDS SHEET 42

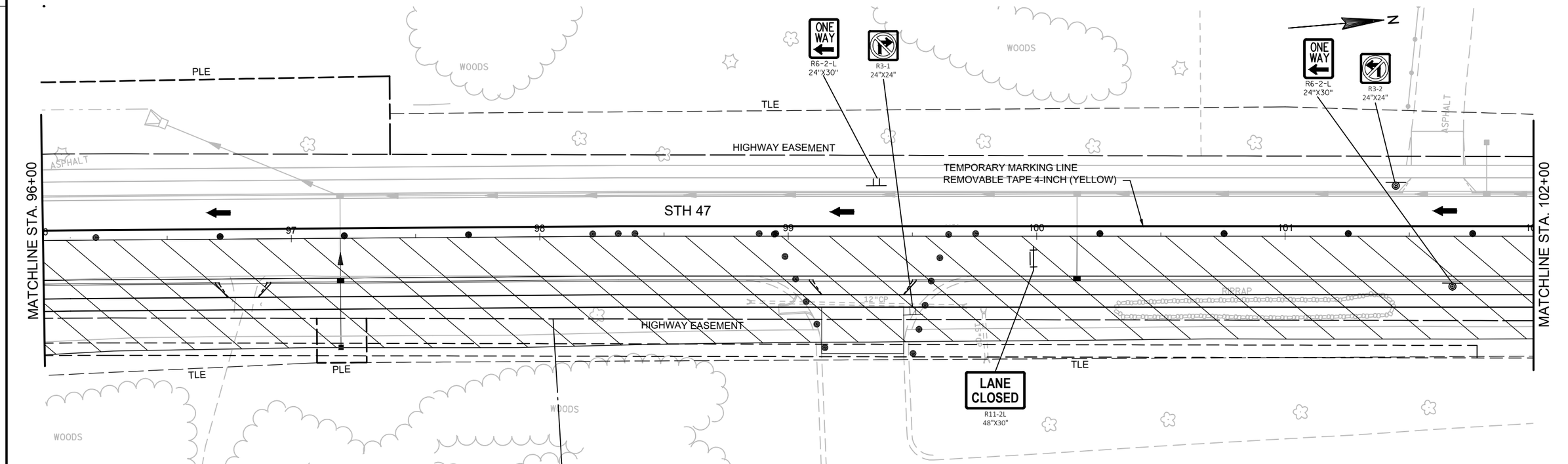




PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL - STAGE 4	SHEET E

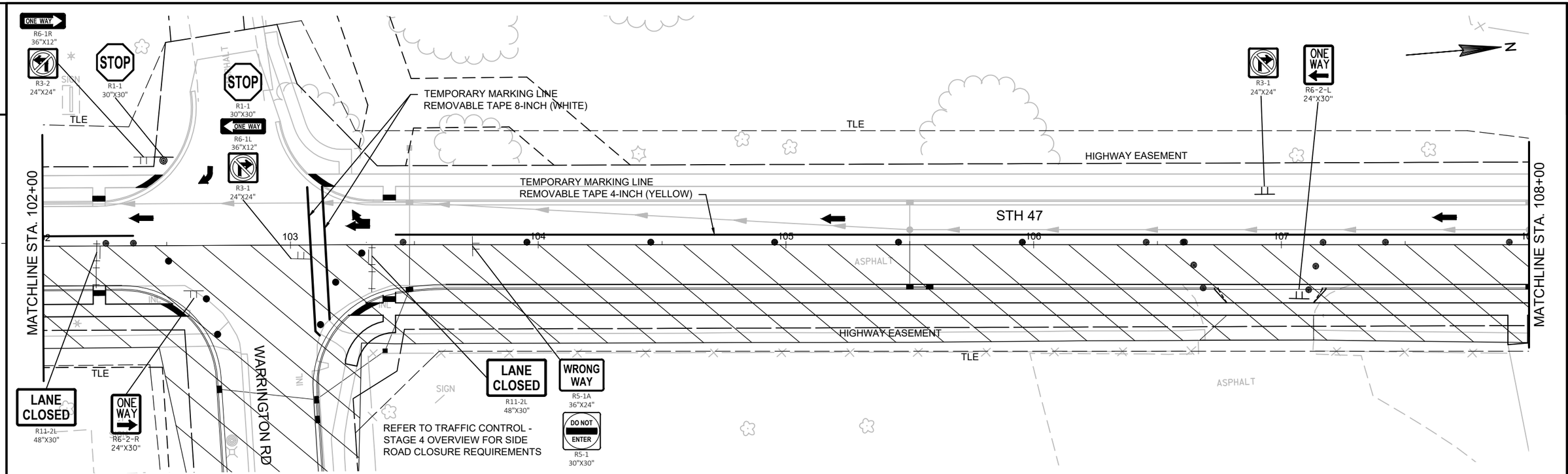
FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0250_TC_STAGE4.DWG PLOT DATE : 1/28/2020 9:23 AM PLOT BY : DAY, JOHN PLOT NAME :

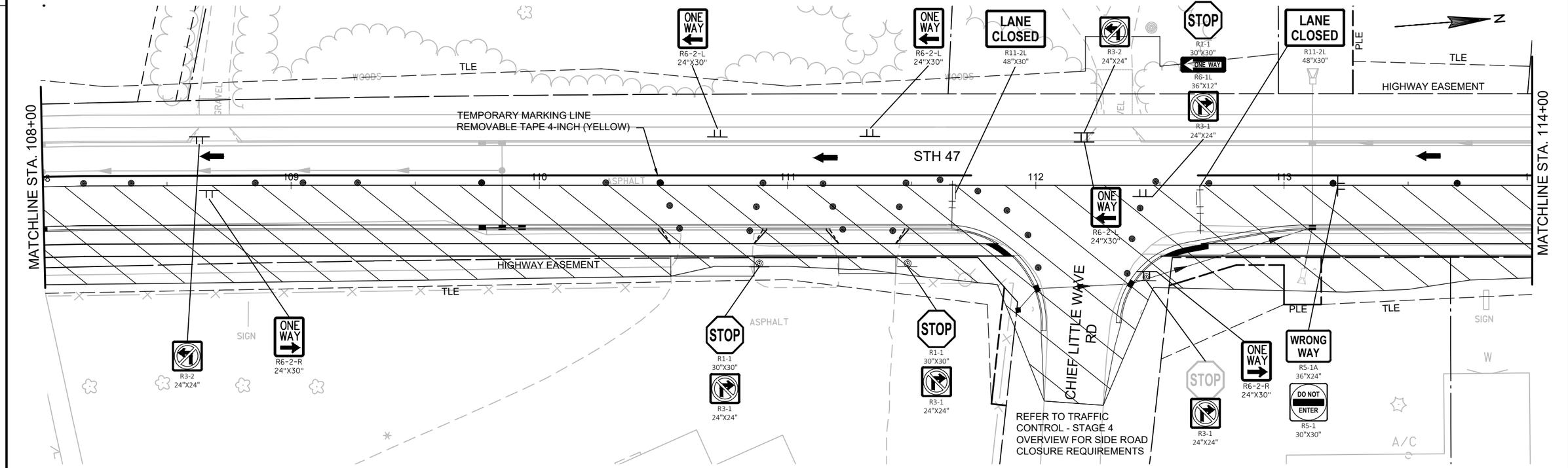




PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL - STAGE 4	SHEET	E

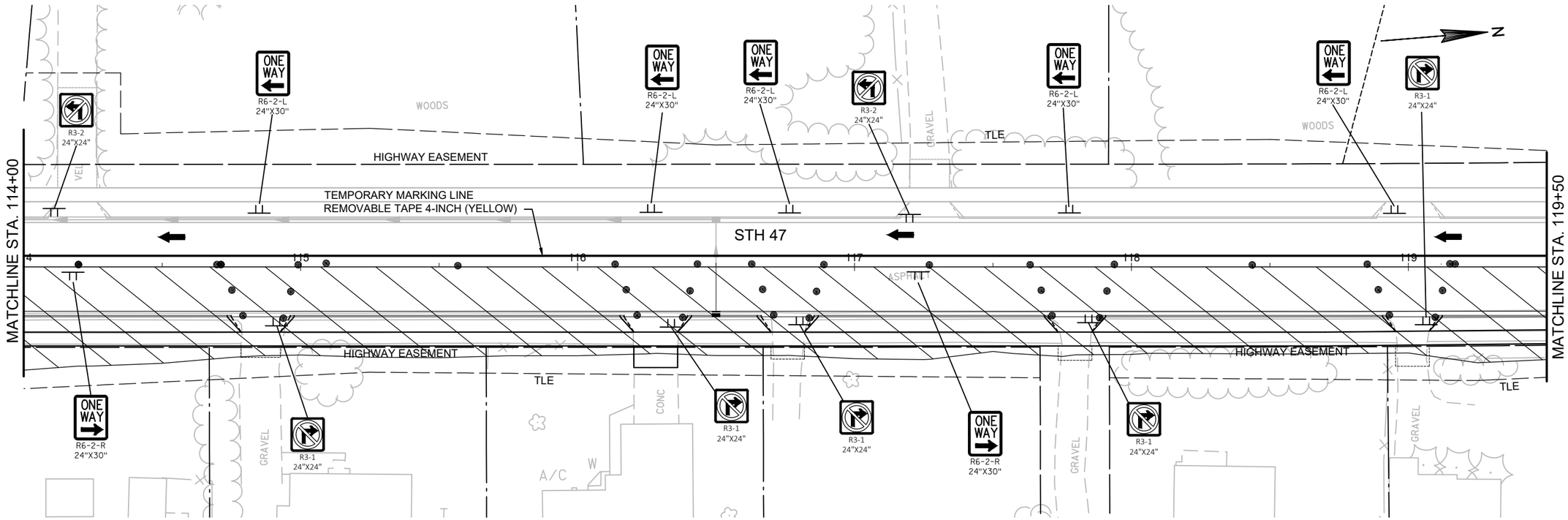
FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0250_TC_STAGE4.DWG PLOT DATE : 1/28/2020 9:24 AM PLOT BY : DAY, JOHN PLOT NAME :

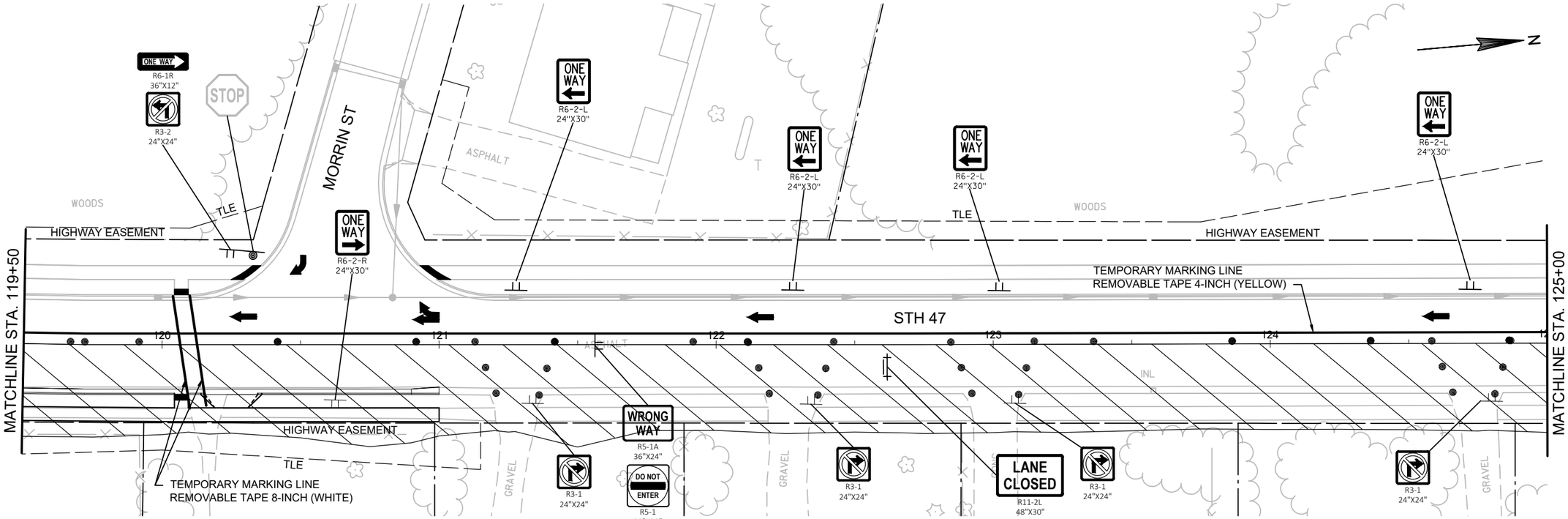




PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL - STAGE 4	SHEET E

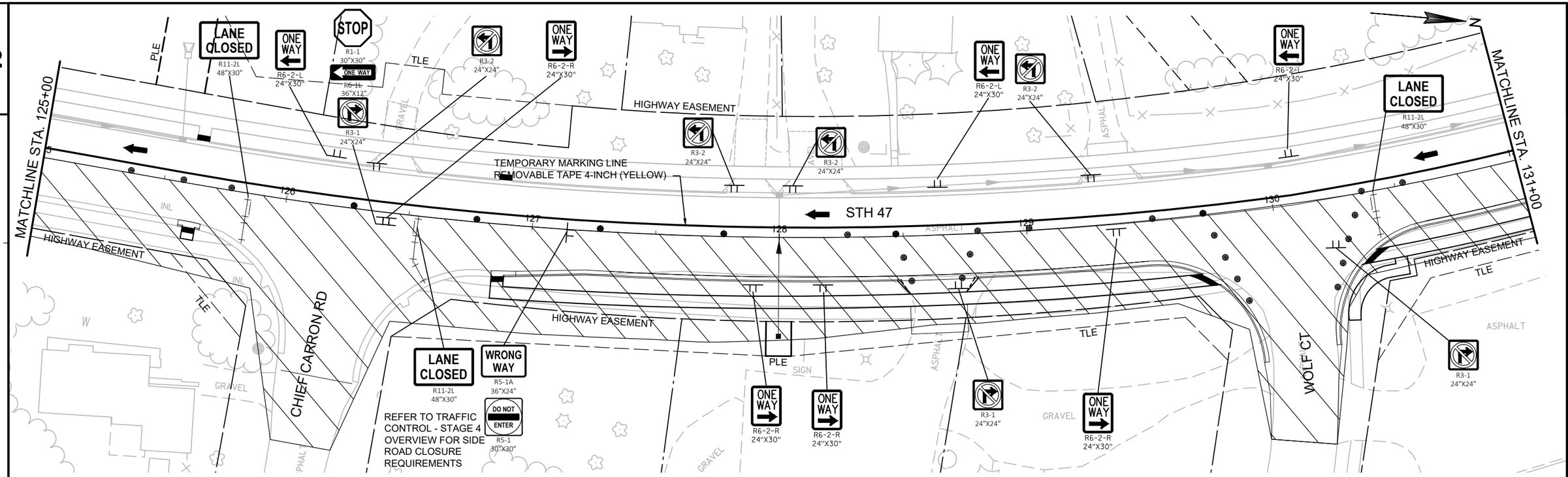
FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0250_TC_STAGE4.DWG PLOT DATE : 1/28/2020 9:24 AM PLOT BY : DAY, JOHN PLOT NAME :

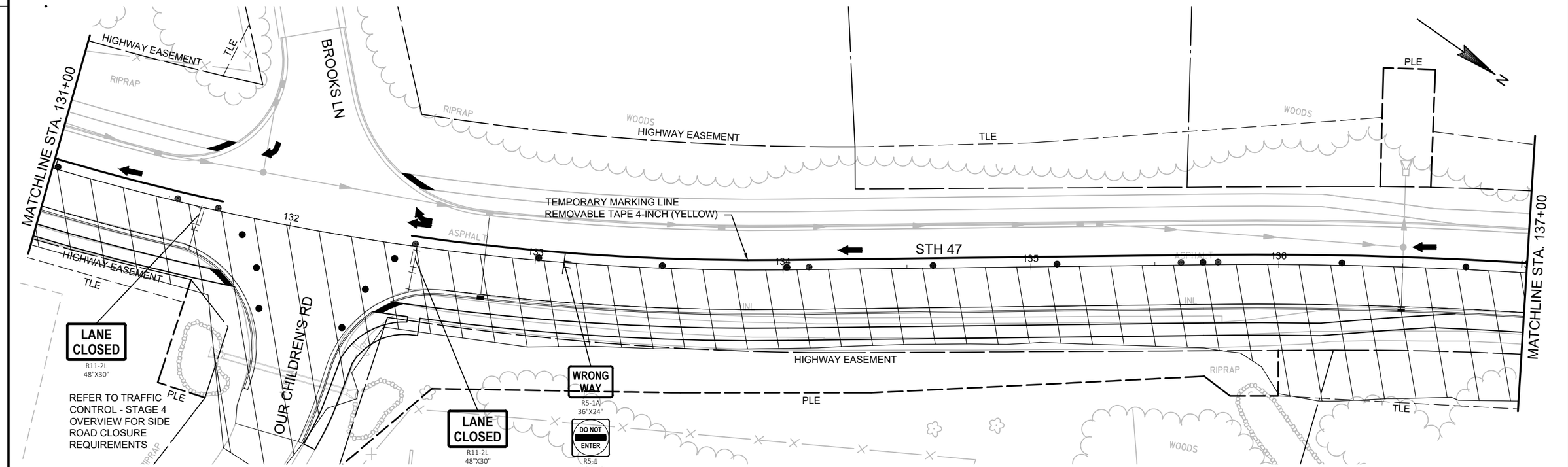




PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL - STAGE 4	SHEET E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0250_TC_STAGE4.DWG PLOT DATE : 1/28/2020 9:24 AM PLOT BY : DAY, JOHN PLOT NAME :

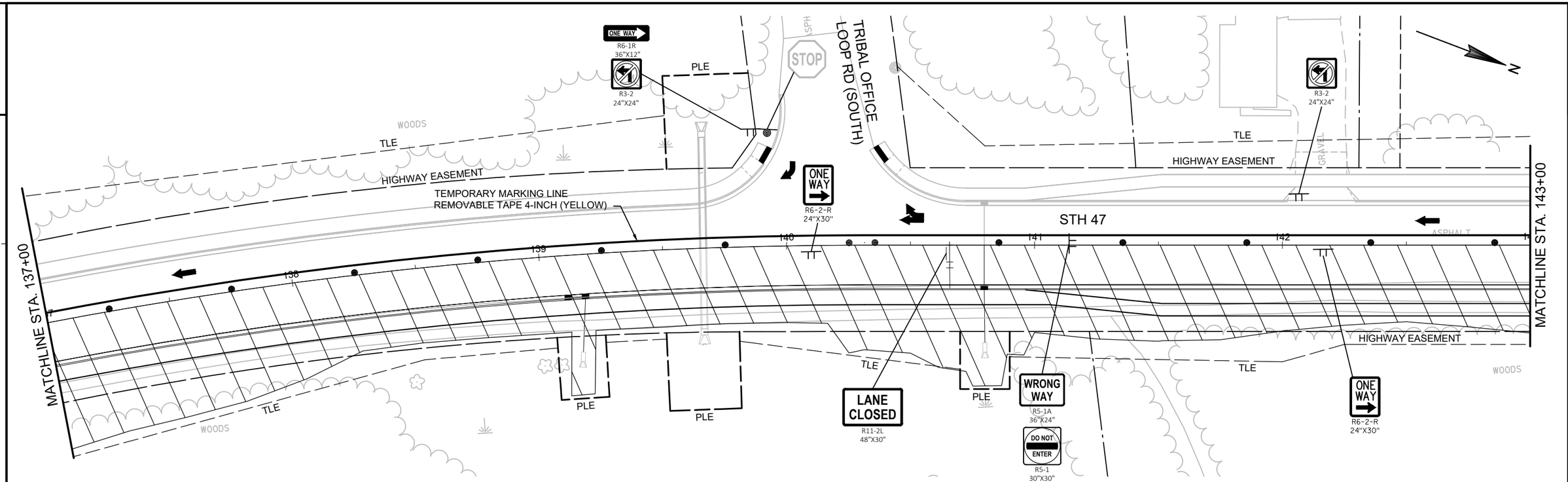


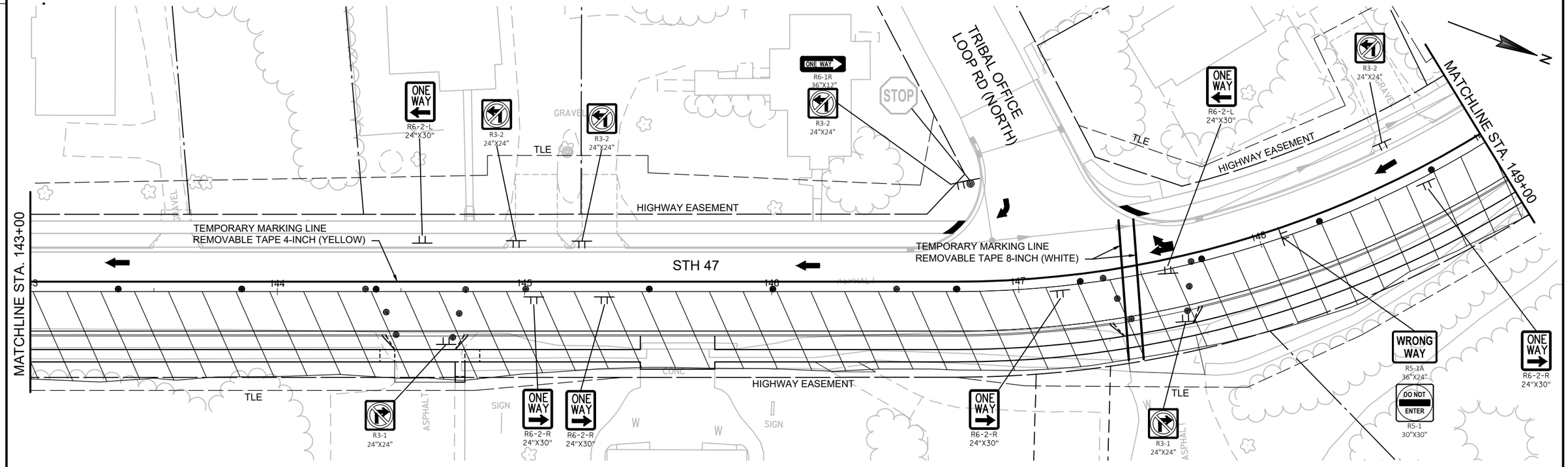


PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL - STAGE 4	SHEET	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0250_TC_STAGE4.DWG PLOT DATE : 1/28/2020 9:24 AM PLOT BY : DAY, JOHN PLOT NAME :

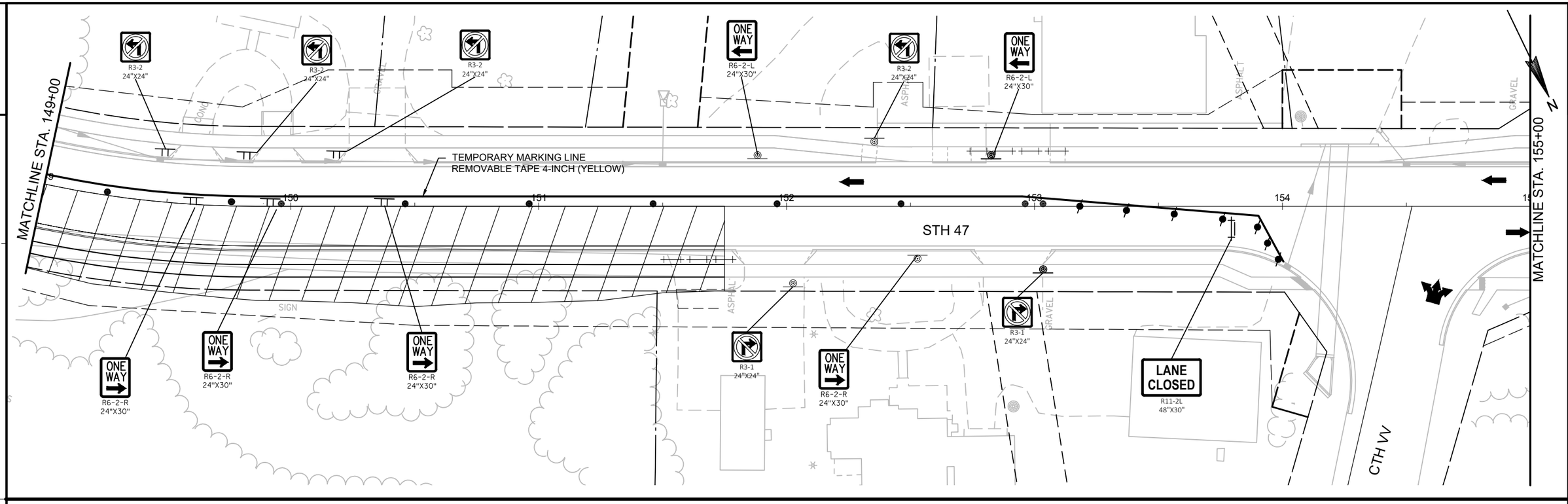
WISDOT/CADDS SHEET 42

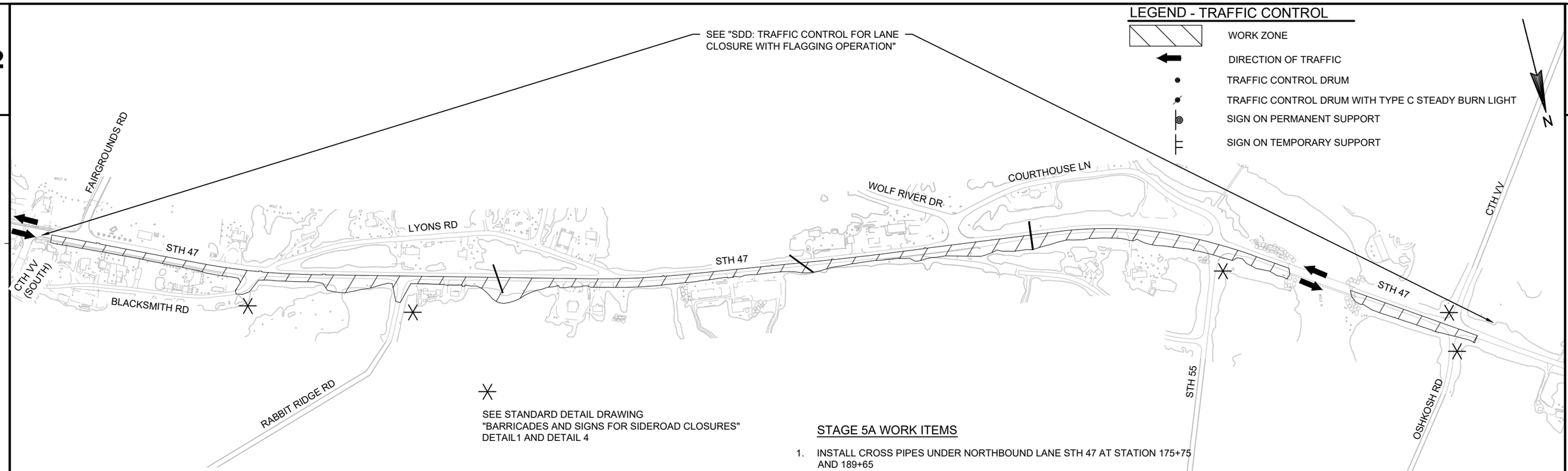




PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL - STAGE 4	SHEET E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0250_TC_STAGE4.DWG PLOT DATE : 1/28/2020 9:25 AM PLOT BY : DAY, JOHN PLOT NAME :


MATCHLINE STA. 149+00
TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (YELLOW)
STH 47
MATCHLINE STA. 155+00
CTH VV
FAIRGROUNDS RD
STATUE
ASPHALT
GRAVEL
SIGN
U/C
A/C
R3-2 24"X24"
R6-2-L 24"X30"
R6-2-R 24"X30"
R3-1 24"X24"
LANE CLOSED
R11-2L 48"X30"
150
151
152
153
154
155
156
157
158
159
160
161



LEGEND - TRAFFIC CONTROL

- WORK ZONE
- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT

SEE STANDARD DETAIL DRAWING
"BARRICADES AND SIGNS FOR SIDEROAD CLOSURES"
DETAIL1 AND DETAIL 4

STAGE 5A WORK ITEMS

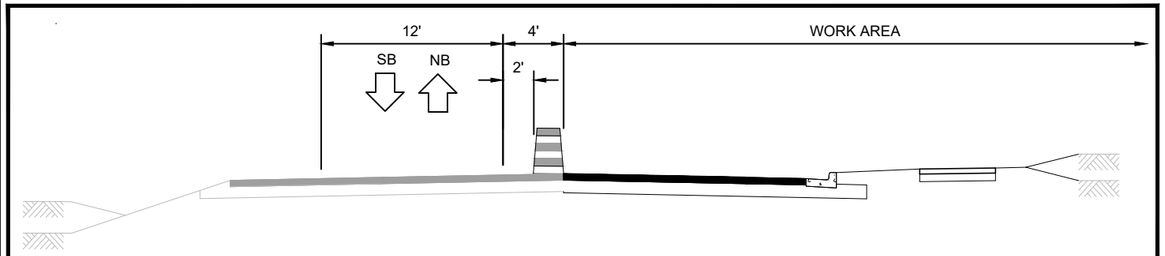
1. INSTALL CROSS PIPES UNDER NORTHBOUND LANE STH 47 AT STATION 175+75 AND 189+65
2. TEMPORARY GRAVEL WIDENING AT STATION 175+75 AND 189+65
3. INSTALL CROSS PIPES UNDER SOUTHBOUND LANE STH 47 AT STATION 175+75 AND 189+65
4. TEMPORARY GRAVEL WIDENING STH 47 SOUTHBOUND LANE AT STATION 200+35
5. INSTALL CROSS PIPE UNDER NORTHBOUND LANE STH 47 AT STATION 200+35
6. TEMPORARY GRAVEL WIDENING STH 47 NORTHBOUND LANE AT STATION 200+35
7. INSTALL CROSS PIPE UNDER SOUTHBOUND LANE STH 47 AT STATION 200+35

STAGE 5B WORK ITEMS

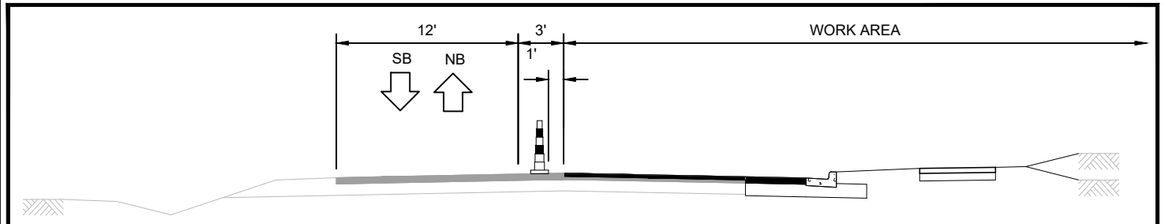
1. CONSTRUCT NORTHBOUND LANE STH 47 FROM STA 155+50 TO CTH VV (NORTH). THIS WORK INCLUDES BLACKSMITH ROAD, RABBIT RIDGE ROAD, STH 55, OSHKOSH ROAD INTERSECTIONS AND STORM SEWER.

STAGE 5 TRAFFIC

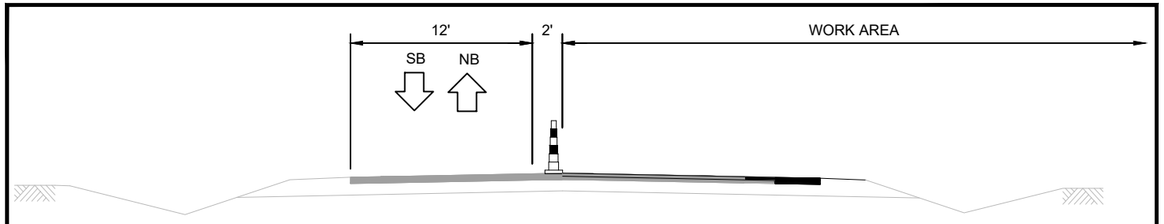
ALL TRAFFIC WILL REMAIN ON STH 47. DURING CONSTRUCTION ACTIVITIES, TRAFFIC WILL BE REDUCED TO ONE LANE ALONG STH 47 AND FLAGGING OPERATION WILL BE USED. ACCESS WILL BE MAINTAINED TO CTH VV (SOUTH) AND STH 55. BLACKSMITH ROAD, RABBIT RIDGE ROAD AND OSHKOSH ROAD WILL BE CLOSED DURING THIS PHASE.



TYPICAL PROPOSED STAGE 5 TRAFFIC CONTROL SECTION - STH 47
STA 155+50 - STA 158+00



TYPICAL PROPOSED STAGE 5 TRAFFIC CONTROL SECTION - STH 47
STA 158+00 - STA 197+95

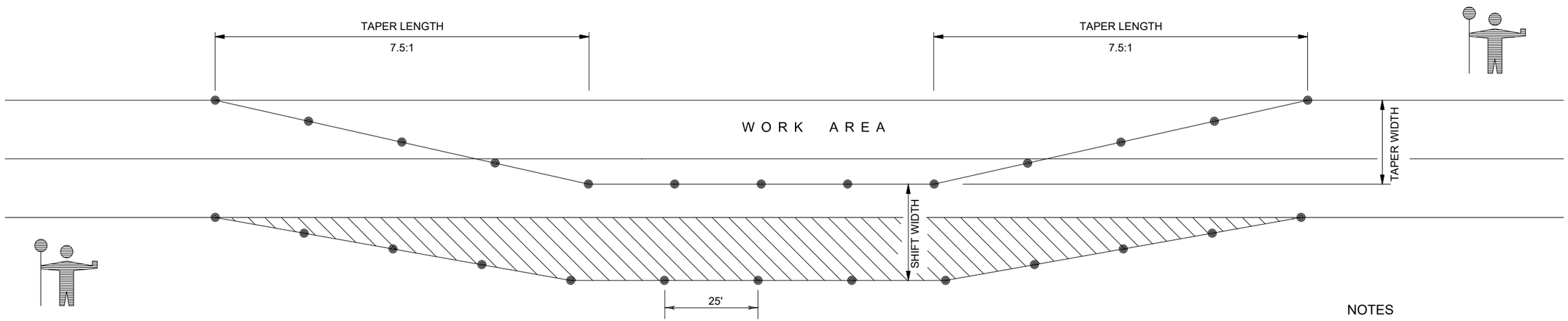


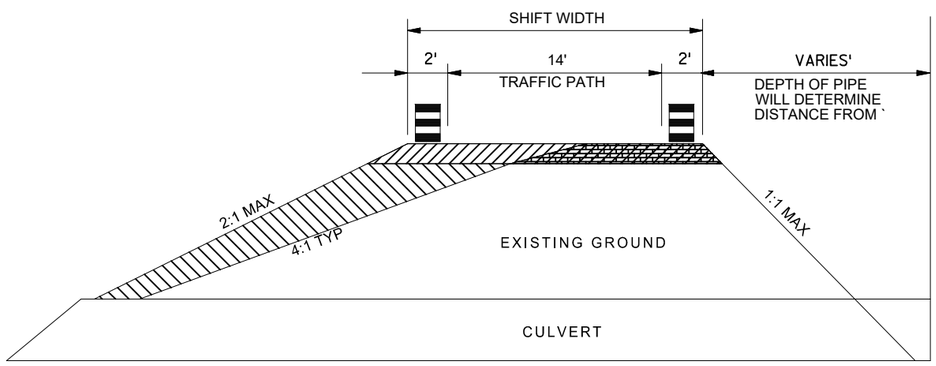
TYPICAL PROPOSED STAGE 5 TRAFFIC CONTROL SECTION - STH 47
STA 197+95 - STA 221+50

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL - STAGE 5 OVERVIEW	SHEET E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0250_TC_STAGE5.DWG PLOT DATE : 1/28/2020 10:16 AM PLOT BY : DAY, JOHN PLOT NAME :

2





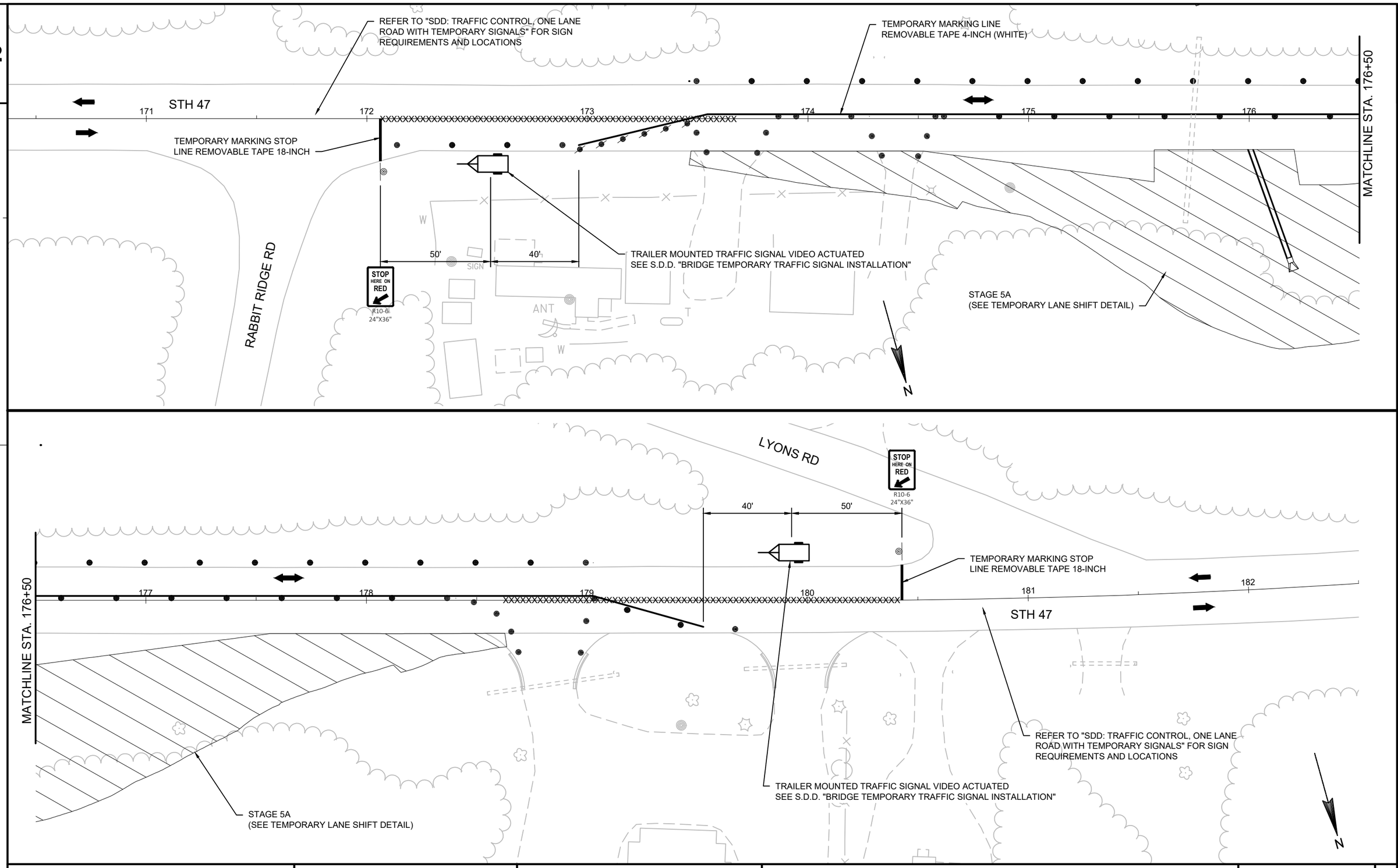
NOTES

1. USE WITH SDD "TRAFFIC CONTROL FOR LANE CLOSURE"
2. FLAGGERS ARE SPECIFIC TO THIS OPERATION
3. THE TAPER SHOULD EXTEND ACROSS THE SHOULDER UNLESS DOING SO WOULD GREATLY CONFLICT WITH THE WORK OPERATION
4. 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
5. CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM TRAVEL LANE WHEN WORK IS NOT IN PROGRESS

LANE SHIFT DETAIL

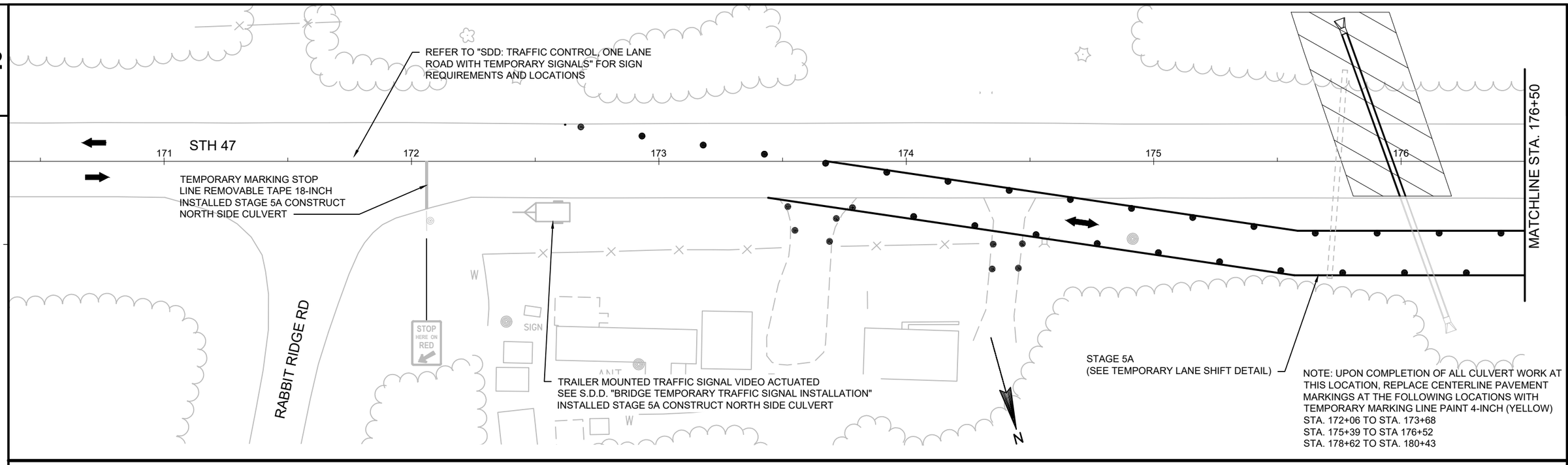
STA 175+75	CROSS CULVERT
STA 189+65	CROSS CULVERT
STA 200+35	CROSS CULVERT

KEY	
●	DRUM WITHOUT WARNING LIGHT
▨	FILL - INCIDENTAL TO LANE SHIFT ITEM
▨	EXISTING PAVED SURFACE OR 6" BASE AGGREGATE DENSE 1 1/4 INCH - INCIDENTAL TO LANE SHIFT ITEM
▨	6" BASE AGGREGATE DENSE 1 1/4 INCH - INCIDENTAL TO LANE SHIFT ITEM



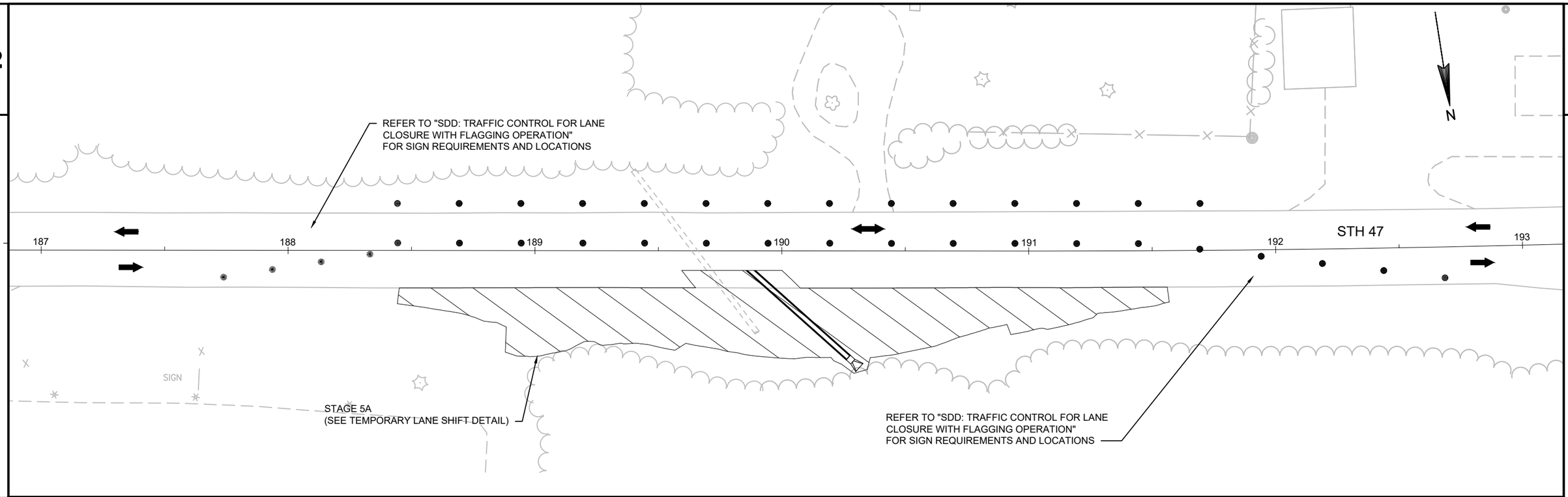
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL - STAGE 5A	SHEET E

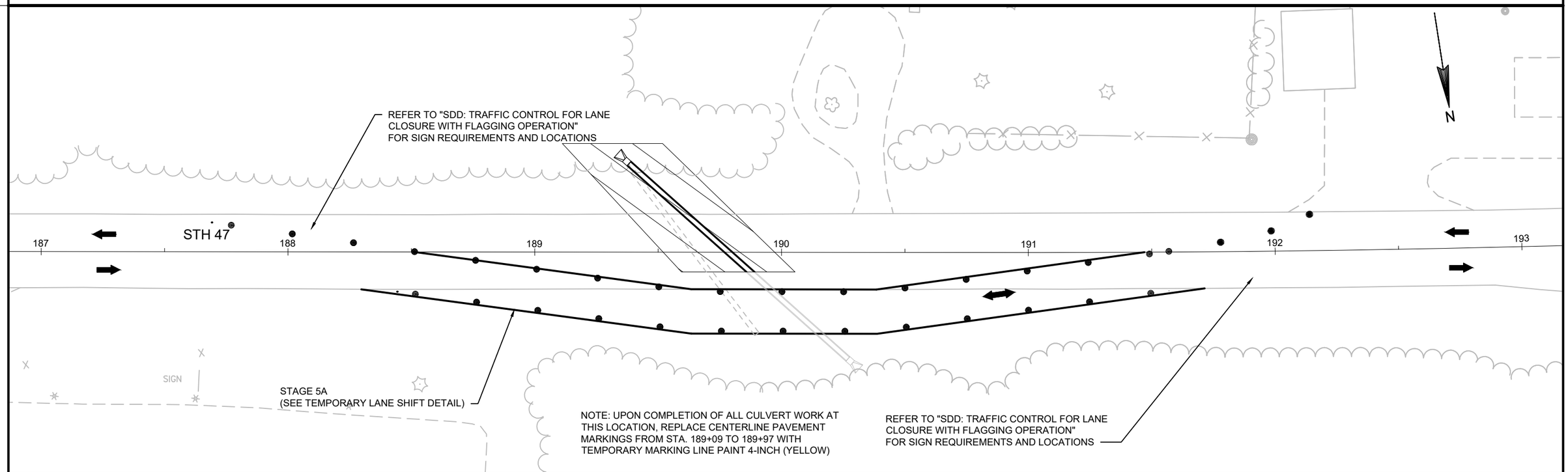
FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0250_TC_STAGE5.DWG PLOT DATE : 1/28/2020 10:16 AM PLOT BY : DAY, JOHN PLOT NAME :



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL - STAGE 5A	SHEET E

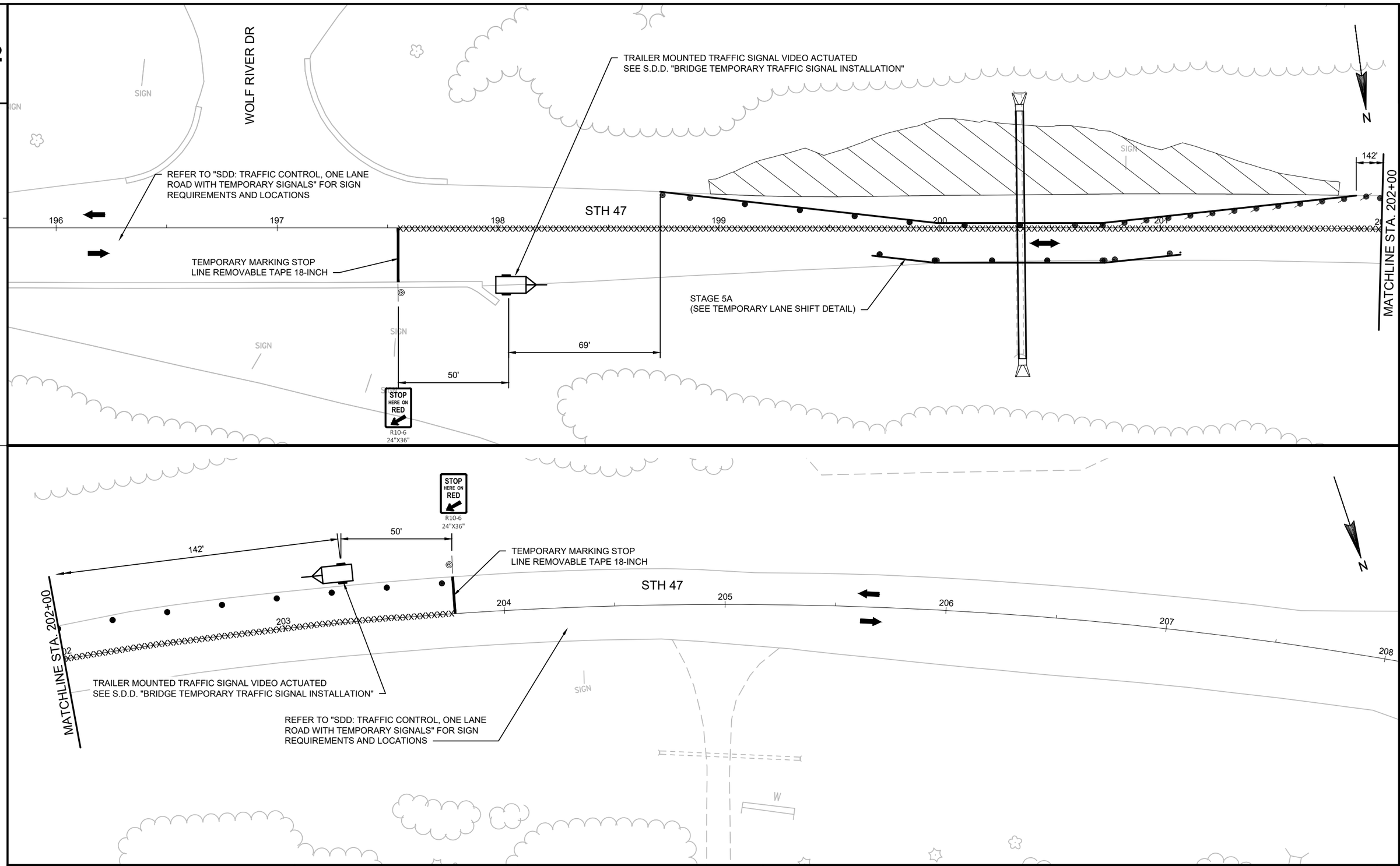
FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0250_TC_STAGE5.DWG PLOT DATE : 1/28/2020 10:16 AM PLOT BY : DAY, JOHN PLOT NAME :
WISDOT/CADDS SHEET 42



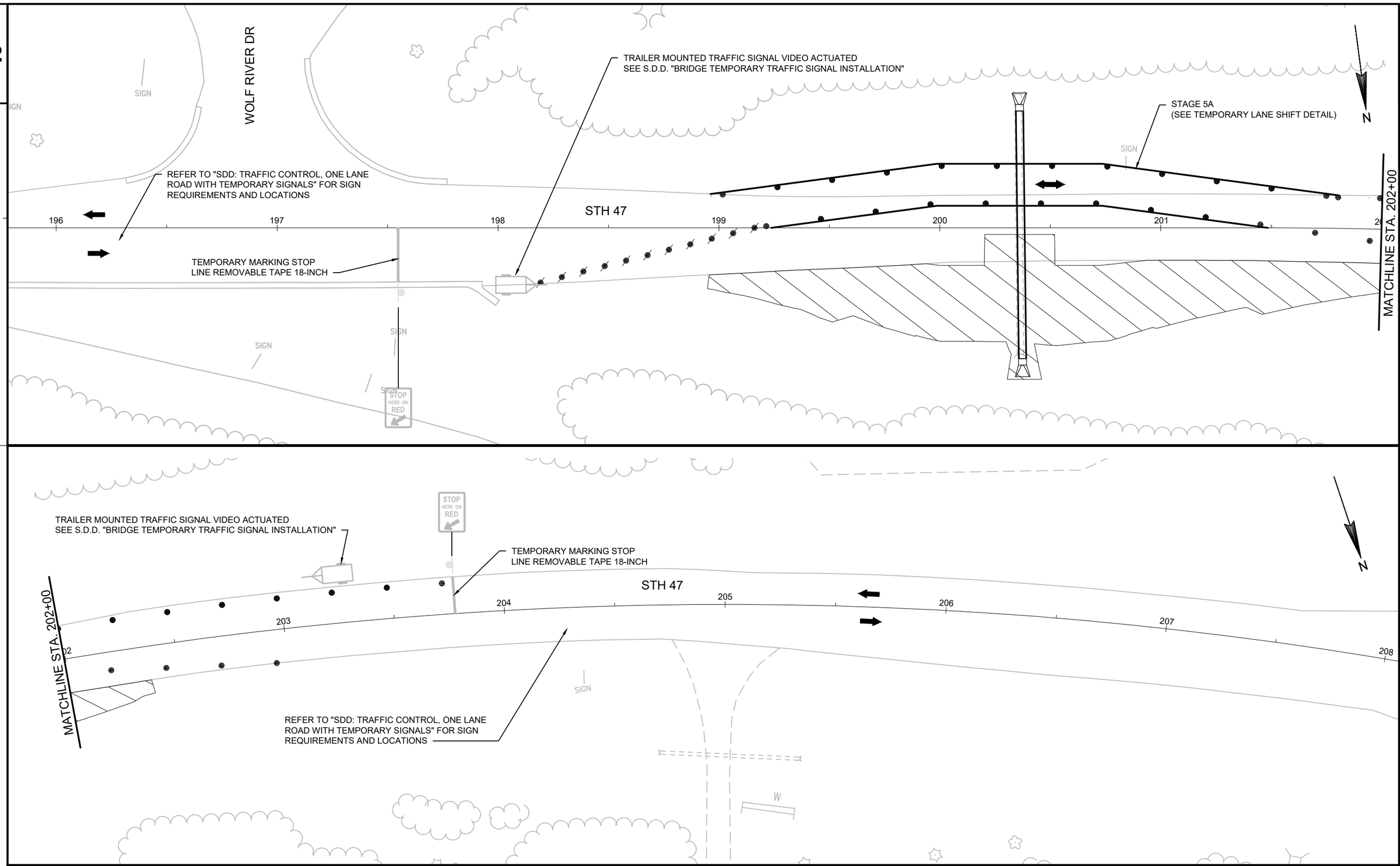


PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL - STAGE 5A	SHEET	E

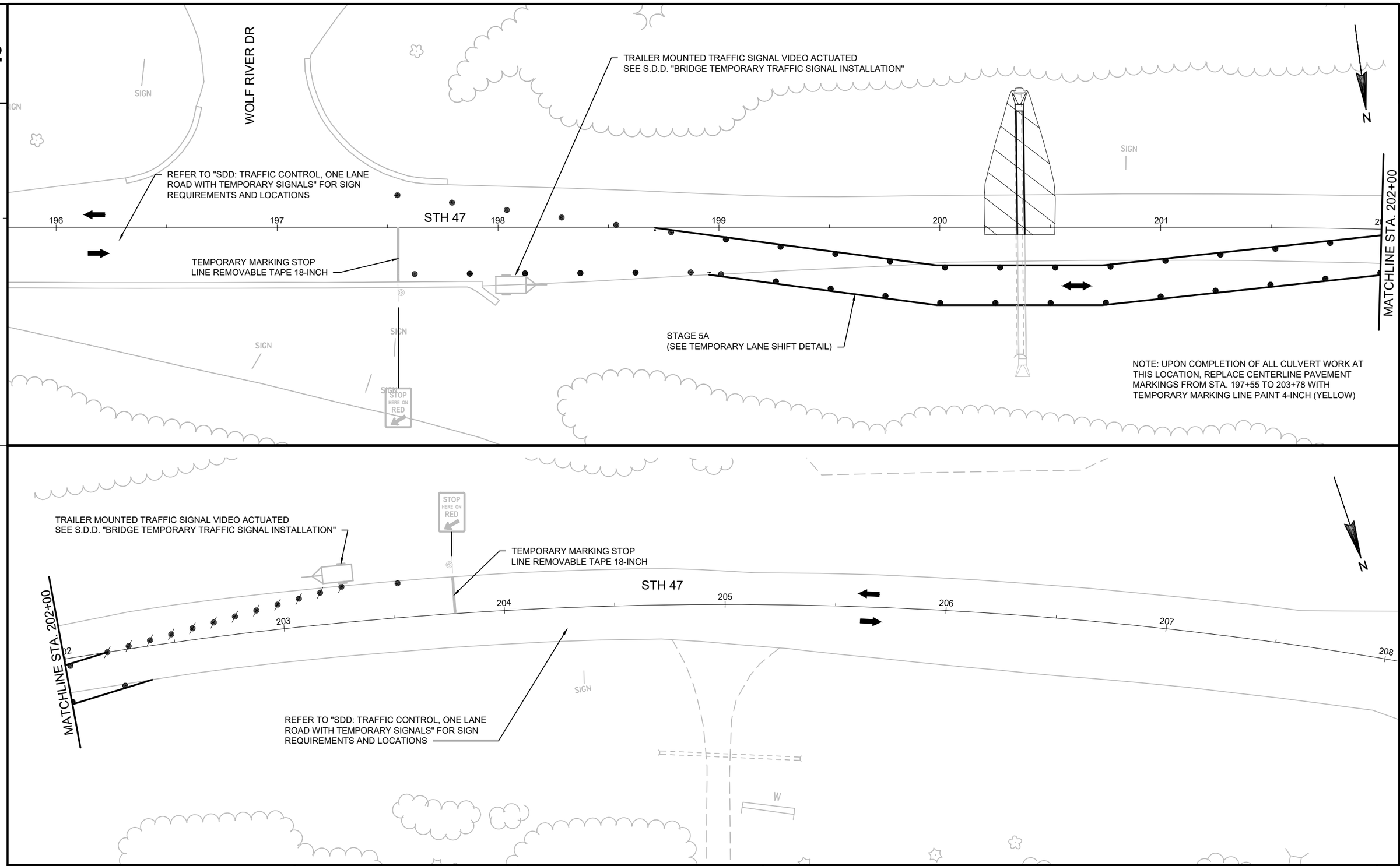
FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0250_TC_STAGE5.DWG PLOT DATE : 1/28/2020 10:17 AM PLOT BY : DAY, JOHN PLOT NAME :



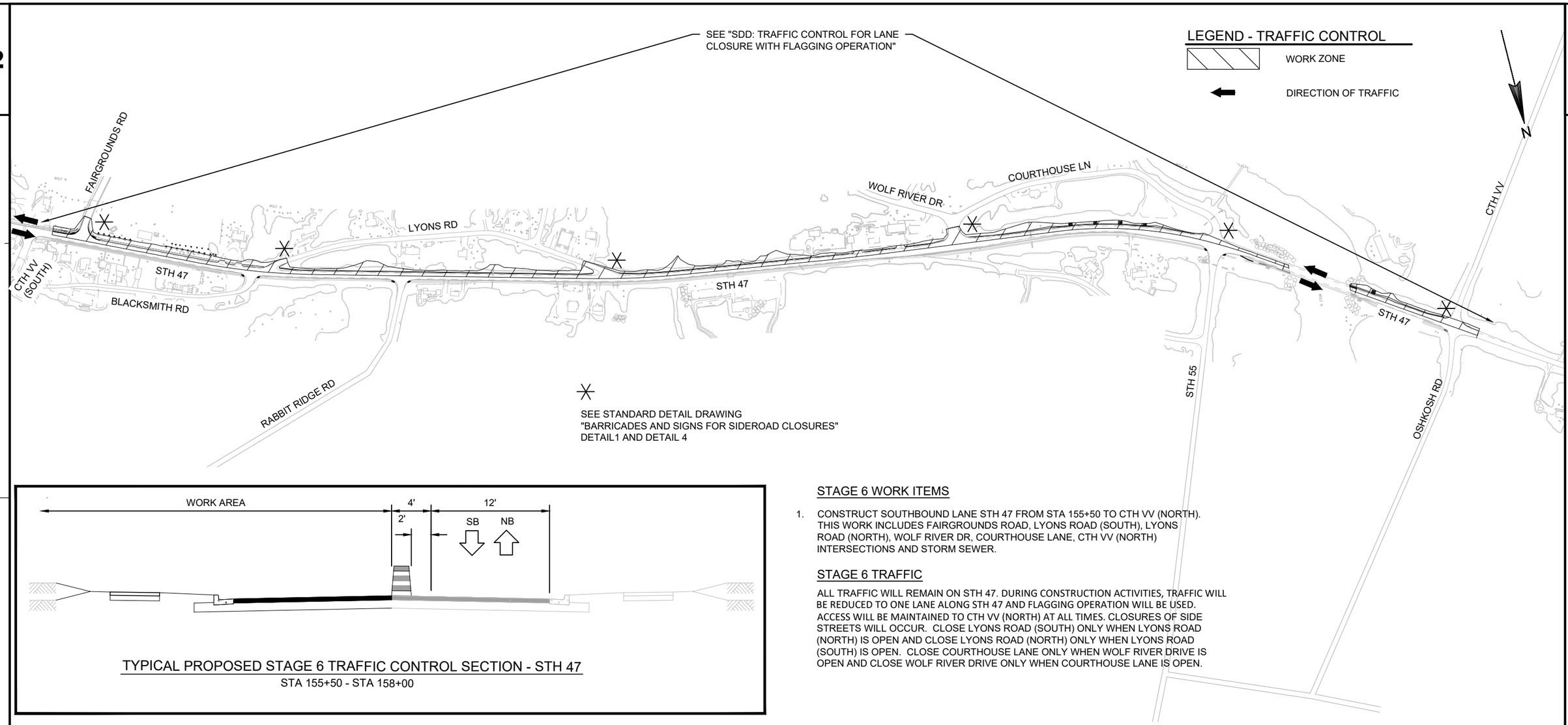
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL - STAGE 5A	SHEET 170	E



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL - STAGE 5A	SHEET 171	E

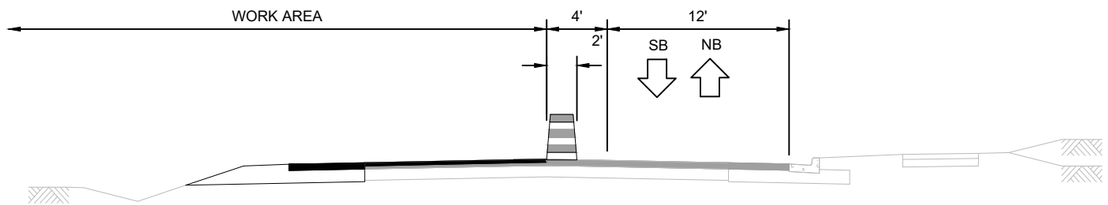


PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL - STAGE 5A	SHEET 172	E



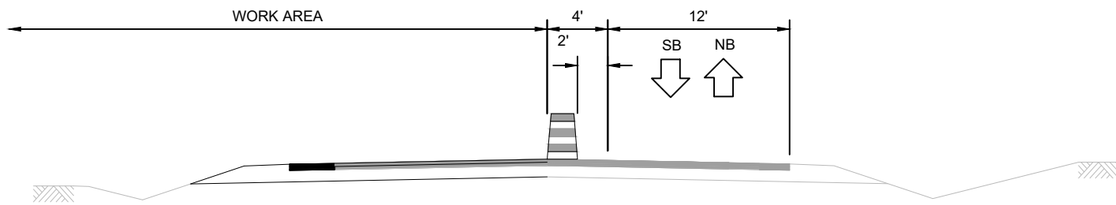
TYPICAL PROPOSED STAGE 6 TRAFFIC CONTROL SECTION - STH 47

STA 155+50 - STA 158+00



TYPICAL PROPOSED STAGE 6 TRAFFIC CONTROL SECTION - STH 47

STA 158+00 - STA 197+95



TYPICAL PROPOSED STAGE 6 TRAFFIC CONTROL SECTION - STH 47

STA 197+95 - STA 221+50

STAGE 6 WORK ITEMS

1. CONSTRUCT SOUTHBOUND LANE STH 47 FROM STA 155+50 TO CTH VV (NORTH). THIS WORK INCLUDES FAIRGROUNDS ROAD, LYONS ROAD (SOUTH), LYONS ROAD (NORTH), WOLF RIVER DR, COURTHOUSE LANE, CTH VV (NORTH) INTERSECTIONS AND STORM SEWER.

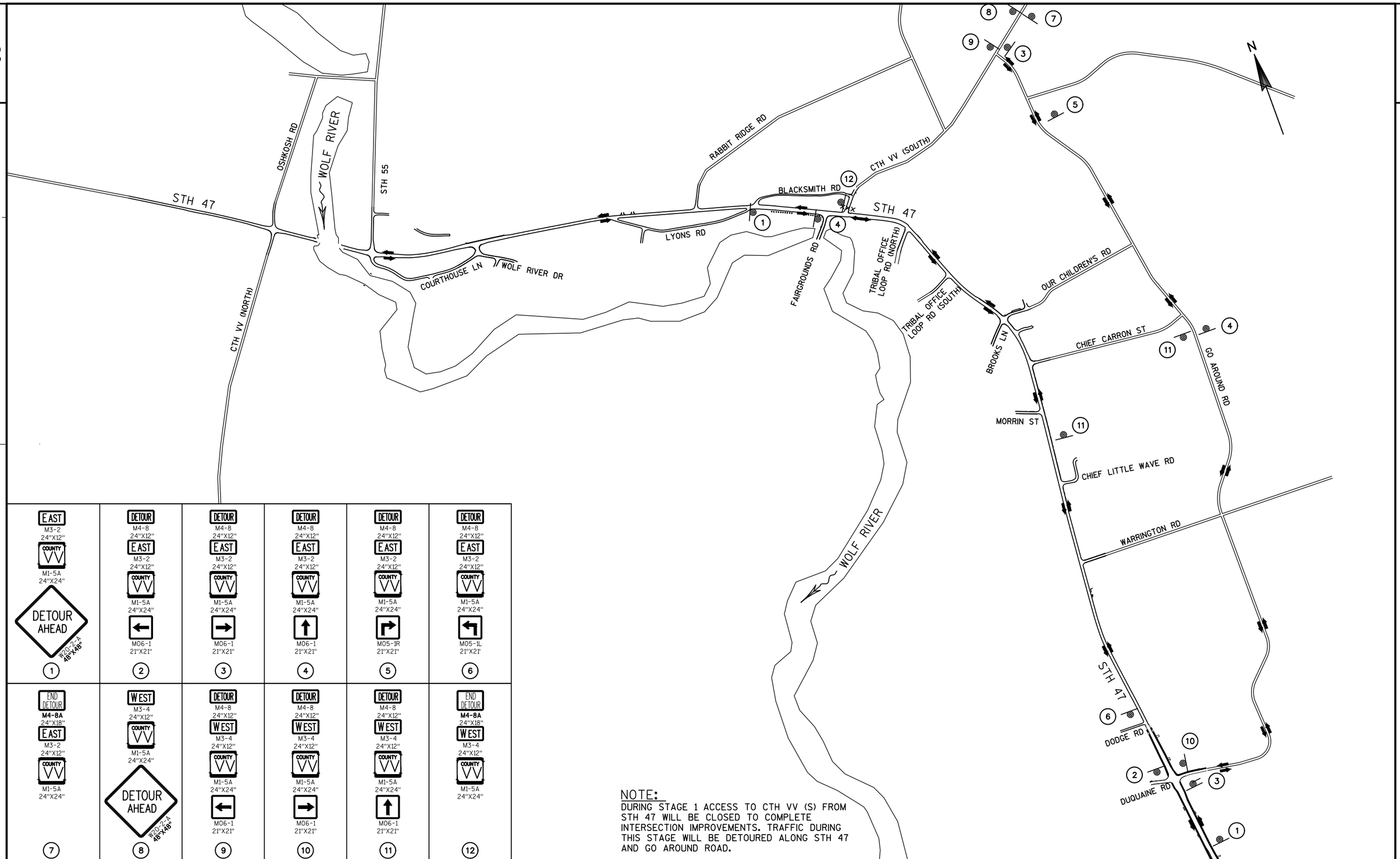
STAGE 6 TRAFFIC

ALL TRAFFIC WILL REMAIN ON STH 47. DURING CONSTRUCTION ACTIVITIES, TRAFFIC WILL BE REDUCED TO ONE LANE ALONG STH 47 AND FLAGGING OPERATION WILL BE USED. ACCESS WILL BE MAINTAINED TO CTH VV (NORTH) AT ALL TIMES. CLOSURES OF SIDE STREETS WILL OCCUR. CLOSE LYONS ROAD (SOUTH) ONLY WHEN LYONS ROAD (NORTH) IS OPEN AND CLOSE LYONS ROAD (NORTH) ONLY WHEN LYONS ROAD (SOUTH) IS OPEN. CLOSE COURTHOUSE LANE ONLY WHEN WOLF RIVER DRIVE IS OPEN AND CLOSE WOLF RIVER DRIVE ONLY WHEN COURTHOUSE LANE IS OPEN.

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL - STAGE 6 OVERVIEW	SHEET E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0250_TC_STAGE6.DWG PLOT DATE : 11/25/2019 4:33 PM PLOT BY : DOLAN, ISAAC PLOT NAME :

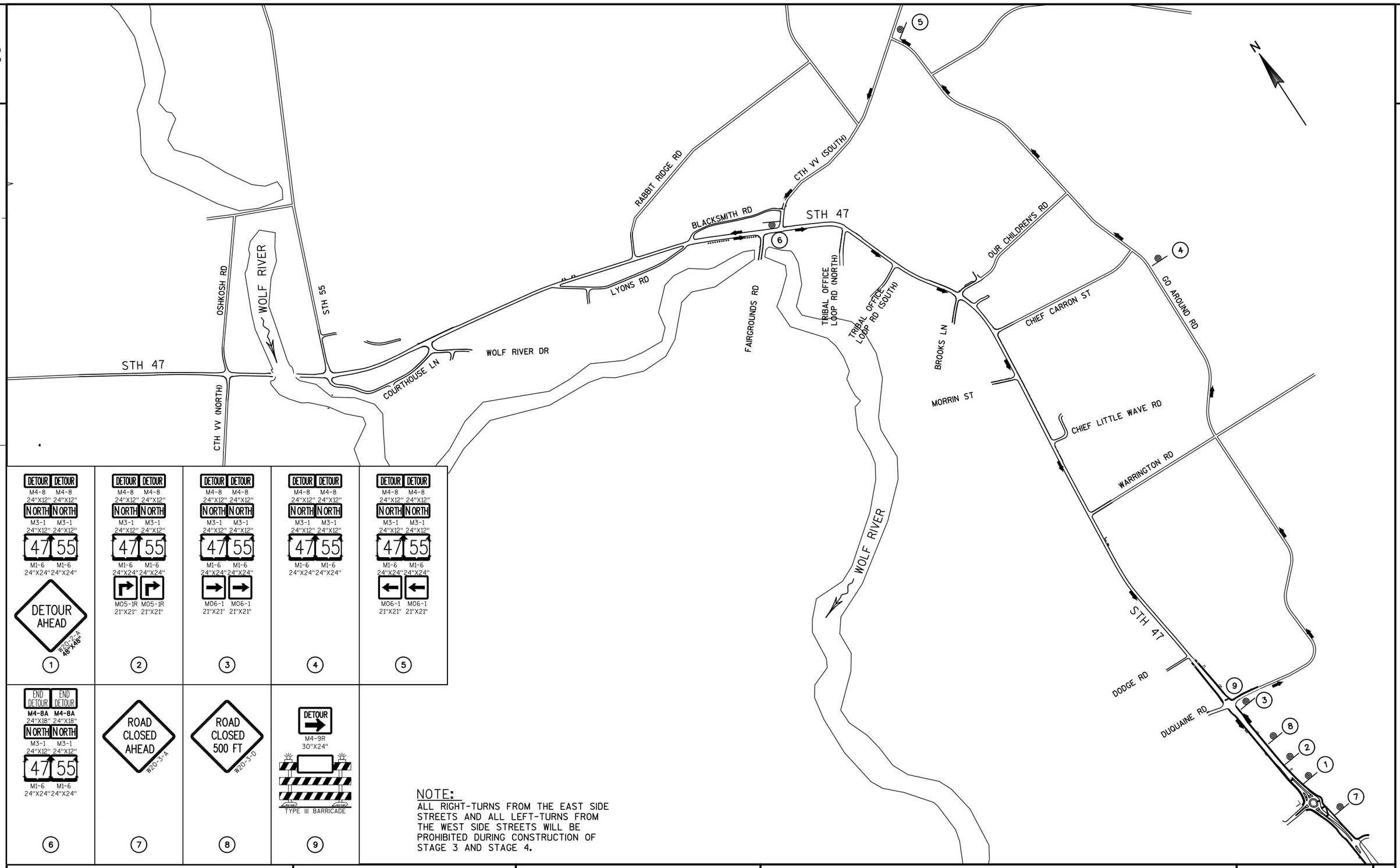
WISDOT/CADDS SHEET 42



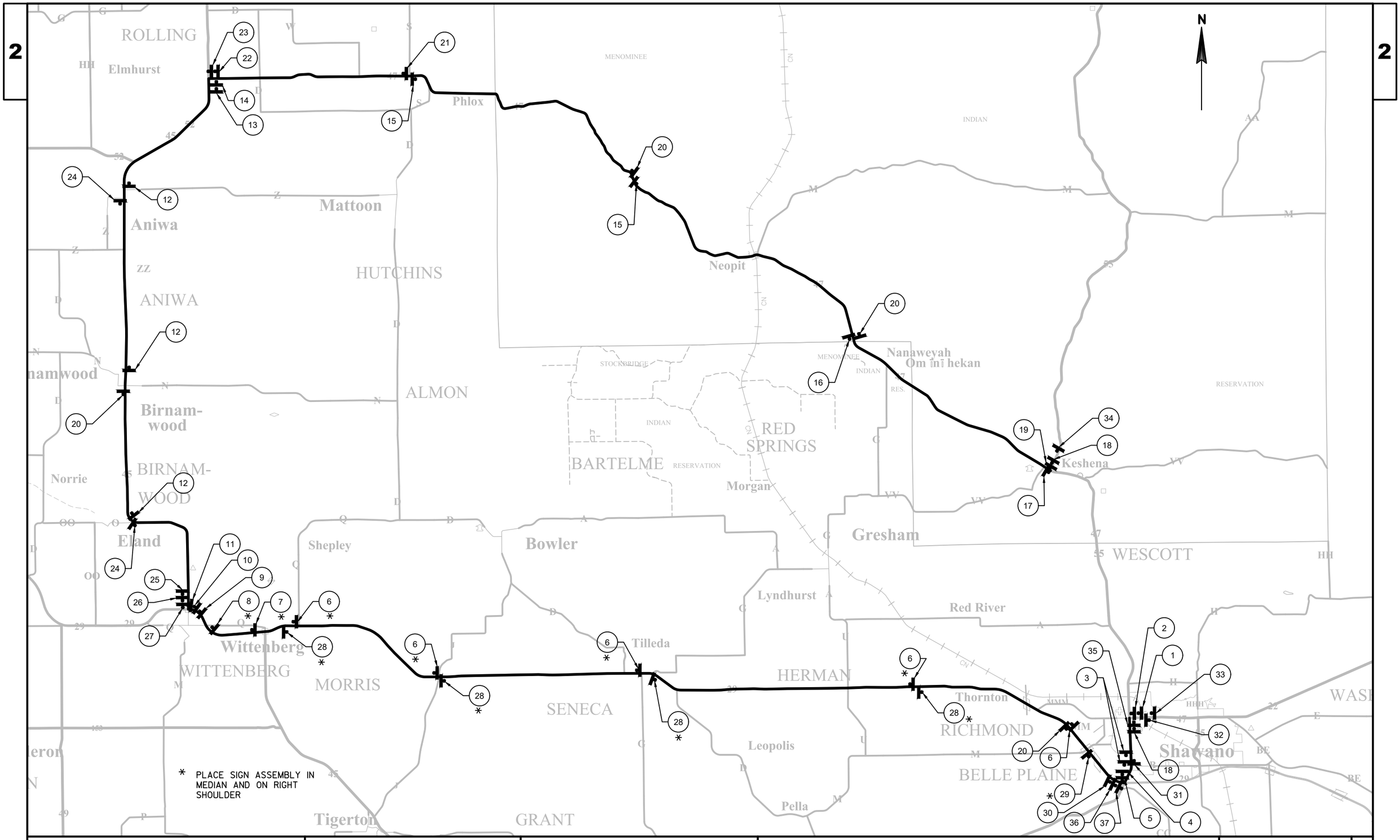
EAST M3-2 24"X12" / COUNTY / M1-5A 24"X24" / DETOUR AHEAD W20-7-4 48"X48"	DETOUR M4-8 24"X12" / EAST M3-2 24"X12" / COUNTY / M1-5A 24"X24" / M06-1 21"X21"	DETOUR M4-8 24"X12" / EAST M3-2 24"X12" / COUNTY / M1-5A 24"X24" / M06-1 21"X21"	DETOUR M4-8 24"X12" / EAST M3-2 24"X12" / COUNTY / M1-5A 24"X24" / M06-1 21"X21"	DETOUR M4-8 24"X12" / EAST M3-2 24"X12" / COUNTY / M1-5A 24"X24" / M05-1R 21"X21"	DETOUR M4-8 24"X12" / EAST M3-2 24"X12" / COUNTY / M1-5A 24"X24" / M05-1L 21"X21"
1	2	3	4	5	6
END DETOUR M4-8A 24"X18" / EAST M3-2 24"X12" / COUNTY / M1-5A 24"X24"	WEST M3-4 24"X12" / COUNTY / M1-5A 24"X24" / DETOUR AHEAD W20-7-4 48"X48"	DETOUR M4-8 24"X12" / WEST M3-4 24"X12" / COUNTY / M1-5A 24"X24" / M06-1 21"X21"	DETOUR M4-8 24"X12" / WEST M3-4 24"X12" / COUNTY / M1-5A 24"X24" / M06-1 21"X21"	DETOUR M4-8 24"X12" / WEST M3-4 24"X12" / COUNTY / M1-5A 24"X24" / M06-1 21"X21"	END DETOUR M4-8A 24"X18" / WEST M3-4 24"X12" / COUNTY / M1-5A 24"X24"
7	8	9	10	11	12

NOTE:
DURING STAGE 1 ACCESS TO CTH VV (S) FROM STH 47 WILL BE CLOSED TO COMPLETE INTERSECTION IMPROVEMENTS. TRAFFIC DURING THIS STAGE WILL BE DETOURED ALONG STH 47 AND GO AROUND ROAD.

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	DETOUR - STAGE 1	SHEET 174	E



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	DETOUR - STAGE 3 AND STAGE 4	SHEET 175 E



PROJECT NO: 9650-17-61/70	HWY: STH 47	COUNTY: MENOMINEE	DETOUR - TRUCK	SHEET 176 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0270_DT_TRUCK.DWG
LAYOUT NAME - ****

PLOT DATE : 1/28/2020 12:48 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : Custom

WISDOT/CADDS SHEET 42

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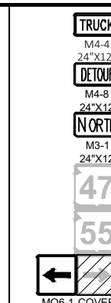

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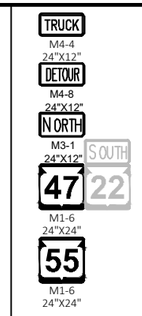

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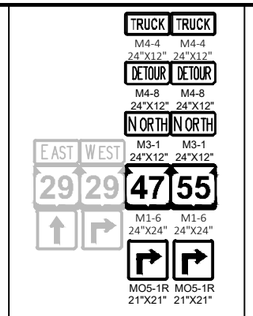

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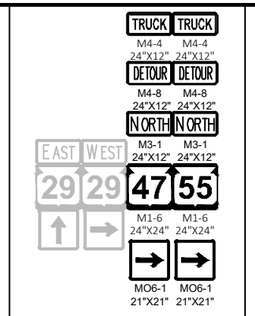

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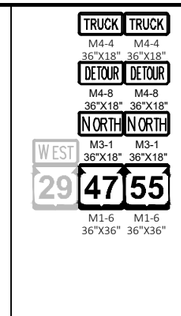

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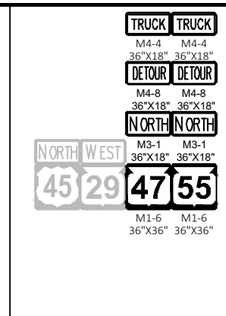

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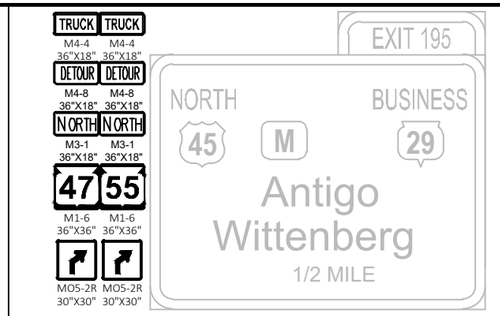

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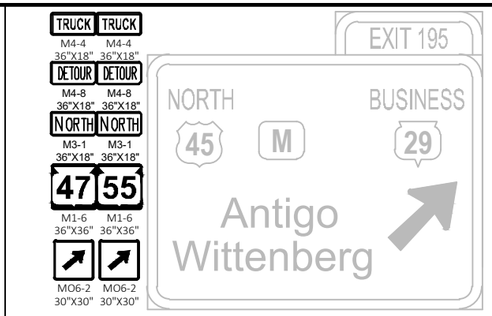

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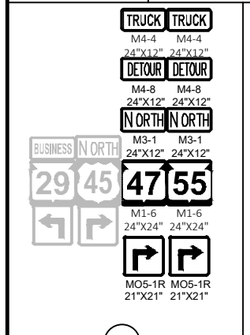

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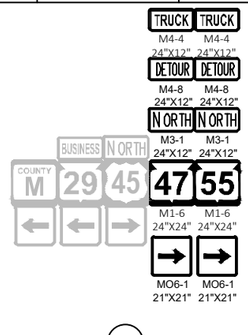

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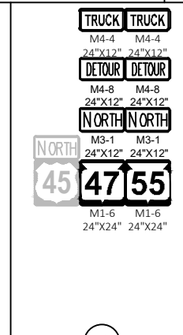

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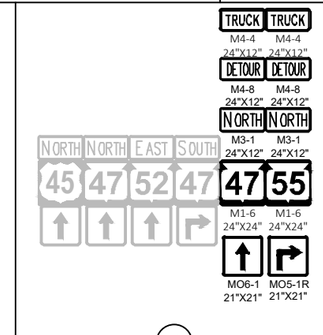

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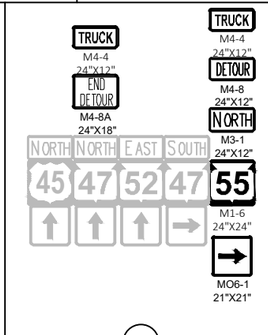

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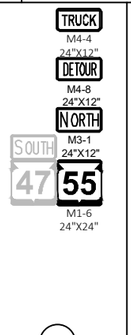

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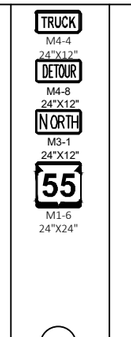

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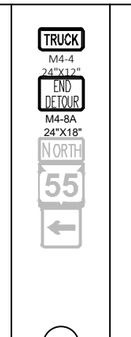

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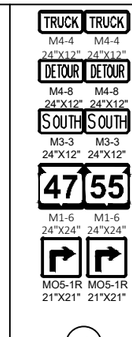

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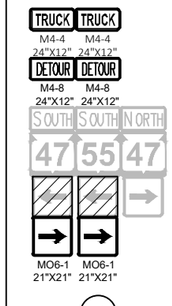

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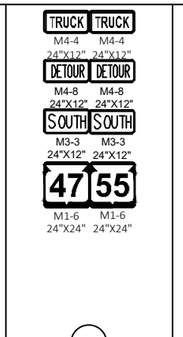

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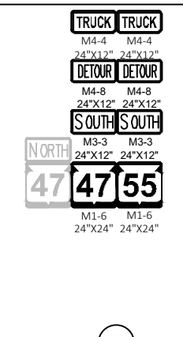

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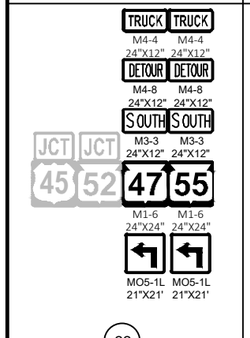

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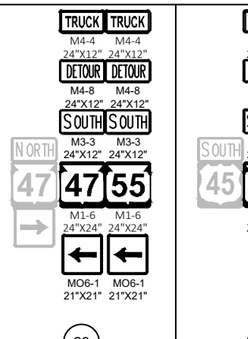

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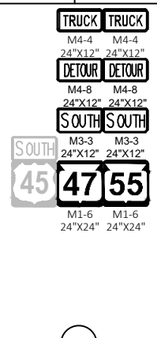

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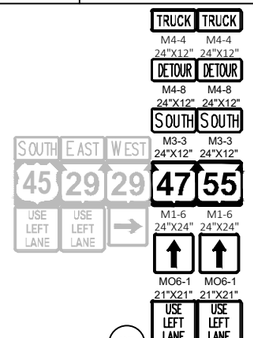

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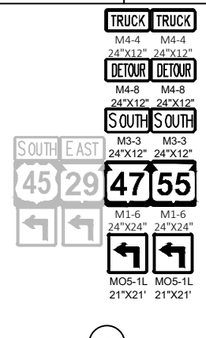

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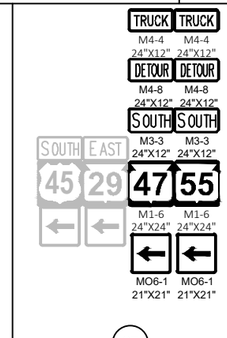

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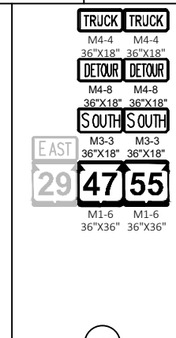

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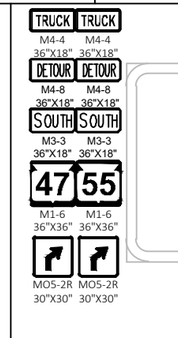

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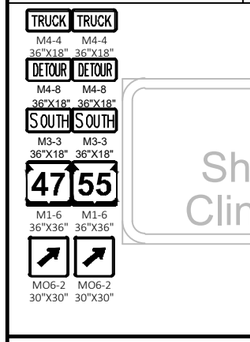

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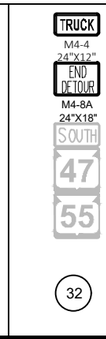

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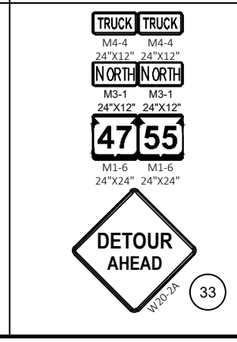

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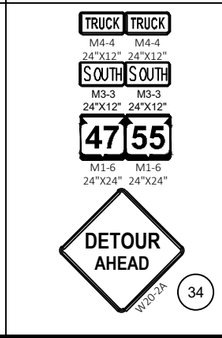

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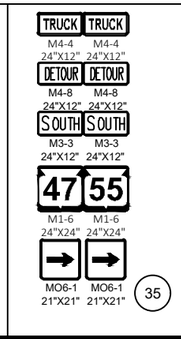

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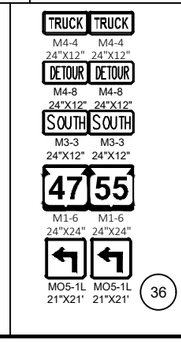

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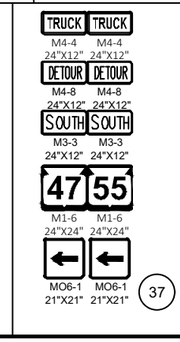
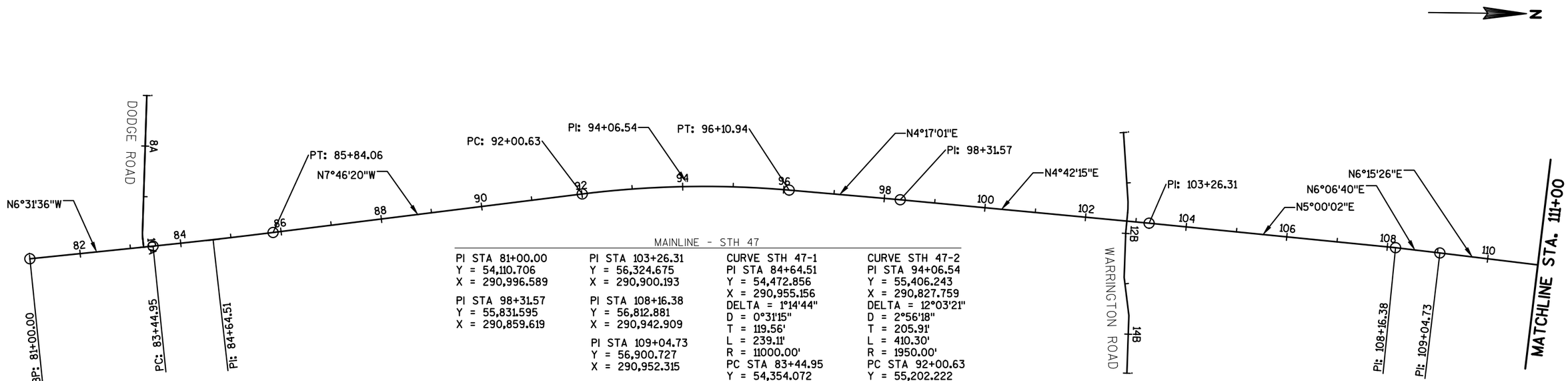


37

31

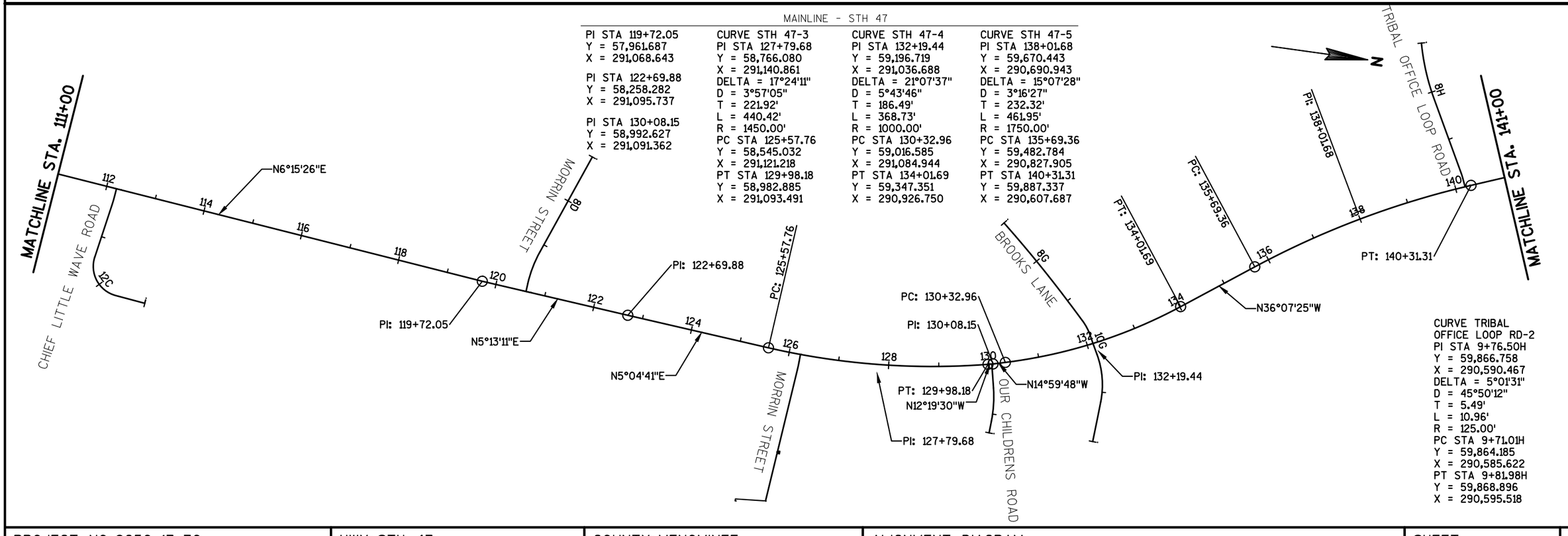
PROJECT NO: 9650-17-61/70	HWY: STH 47	COUNTY: MENOMINEE	DETOUR - TRUCK	SHEET 177 E

2



MAINLINE - STH 47

PI STA 81+00.00 Y = 54,110.706 X = 290,996.589	PI STA 103+26.31 Y = 56,324.675 X = 290,900.193	CURVE STH 47-1 PI STA 84+64.51 Y = 54,472.856 X = 290,955.156 DELTA = 1°14'44" D = 0°31'15" T = 119.56' L = 239.11' R = 11000.00' PC STA 83+44.95 Y = 54,354.072 X = 290,968.746 PT STA 85+84.06 Y = 54,591.316 X = 290,938.987	CURVE STH 47-2 PI STA 94+06.54 Y = 55,406.243 X = 290,827.759 DELTA = 12°03'21" D = 2°56'18" T = 205.91' L = 410.30' R = 1950.00' PC STA 92+00.63 Y = 55,202.222 X = 290,855.606 PT STA 96+10.94 Y = 55,611.580 X = 290,843.139
PI STA 98+31.57 Y = 55,831.595 X = 290,859.619	PI STA 108+16.38 Y = 56,812.881 X = 290,942.909 PI STA 109+04.73 Y = 56,900.727 X = 290,952.315		



MAINLINE - STH 47

PI STA 119+72.05 Y = 57,961.687 X = 291,068.643	CURVE STH 47-3 PI STA 127+79.68 Y = 58,766.080 X = 291,140.861 DELTA = 17°24'11" D = 3°57'05" T = 221.92' L = 440.42' R = 1450.00' PC STA 125+57.76 Y = 58,545.032 X = 291,121.218 PT STA 129+98.18 Y = 58,982.885 X = 291,093.491	CURVE STH 47-4 PI STA 132+19.44 Y = 59,196.719 X = 291,036.688 DELTA = 21°07'37" D = 5°43'46" T = 186.49' L = 368.73' R = 1000.00' PC STA 130+32.96 Y = 59,016.585 X = 291,084.944 PT STA 134+01.69 Y = 59,347.351 X = 290,926.750	CURVE STH 47-5 PI STA 138+01.68 Y = 59,670.443 X = 290,690.943 DELTA = 15°07'28" D = 3°16'27" T = 232.32' L = 461.95' R = 1750.00' PC STA 135+69.36 Y = 59,482.784 X = 290,827.905 PT STA 140+31.31 Y = 59,887.337 X = 290,607.687
PI STA 122+69.88 Y = 58,258.282 X = 291,095.737			
PI STA 130+08.15 Y = 58,992.627 X = 291,091.362			

CURVE TRIBAL OFFICE LOOP RD-2
PI STA 9+76.50H
Y = 59,866.758
X = 290,590.467
DELTA = 5°01'31"
D = 45°50'12"
T = 5.49'
L = 10.96'
R = 125.00'
PC STA 9+71.01H
Y = 59,864.185
X = 290,585.622
PT STA 9+81.98H
Y = 59,868.896
X = 290,595.518

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	ALIGNMENT DIAGRAM	SHEET 178	E

2

MATCHLINE STA. 141+00

142

N20°59'58"W

144

146

TRIBAL OFFICE LOOP ROAD

18

148

PC: 146+74.66

PI: 148+38.24

150

PT: 149+85.95

152

154

CTH VV

12J

156

FAIRGROUNDS ROAD

8K

158

N64°30'02"W

160

162

PC: 162+32.34

164

BLACKSMITH ROAD

12L

PI: 164+94.61

166

LYONS ROAD

168

PT: 167+55.54

N74°29'35"W

170

MATCHLINE STA. 171+00

2

N

6'
00'
9+71.01H
364.185
,585.622
9+81.98H
368.896
,595.518

CURVE CTH VV-2
PI STA 12+83.47J
Y = 61,131.795
X = 289,926.556
DELTA = 13°44'26"
D = 14°19'26"
T = 48.20'
L = 95.93'
R = 400.00'
PC STA 12+35.28J
Y = 61,096.571
X = 289,893.662
PT STA 13+31.20J
Y = 61,158.198
X = 289,966.875

MAINLINE - STH 47

CURVE STH 47-6	CURVE STH 47-7
PI STA 148+38.24	PI STA 164+94.61
Y = 60,640.674	Y = 61,360.574
X = 290,318.519	X = 288,809.173
DELTA = 43°30'05"	DELTA = 9°59'33"
D = 13°58'28"	D = 1°54'35"
T = 163.58'	T = 262.27'
L = 311.29'	L = 523.20'
R = 410.00'	R = 3000.00'
PC STA 146+74.66	PC STA 162+32.34
Y = 60,487.959	Y = 61,247.668
X = 290,377.139	X = 289,045.892
PT STA 149+85.95	PT STA 167+55.54
Y = 60,711.095	Y = 61,430.692
X = 290,170.874	X = 288,556.453

MATCHLINE STA. 171+00

172

N74°29'35"W

174

176

178

LYONS ROAD

80

180

120

PC: 180+12.76

182

PI: 182+23.69

RABBIT RIDGE ROAD

12N

184

PT: 184+34.16

186

N81°01'07"W

188

190

PC: 191+05.23

192

PI: 192+07.00

PT: 193+08.76

194

196

COURTHOUSE LANE

8P

198

200

N82°34'24"W

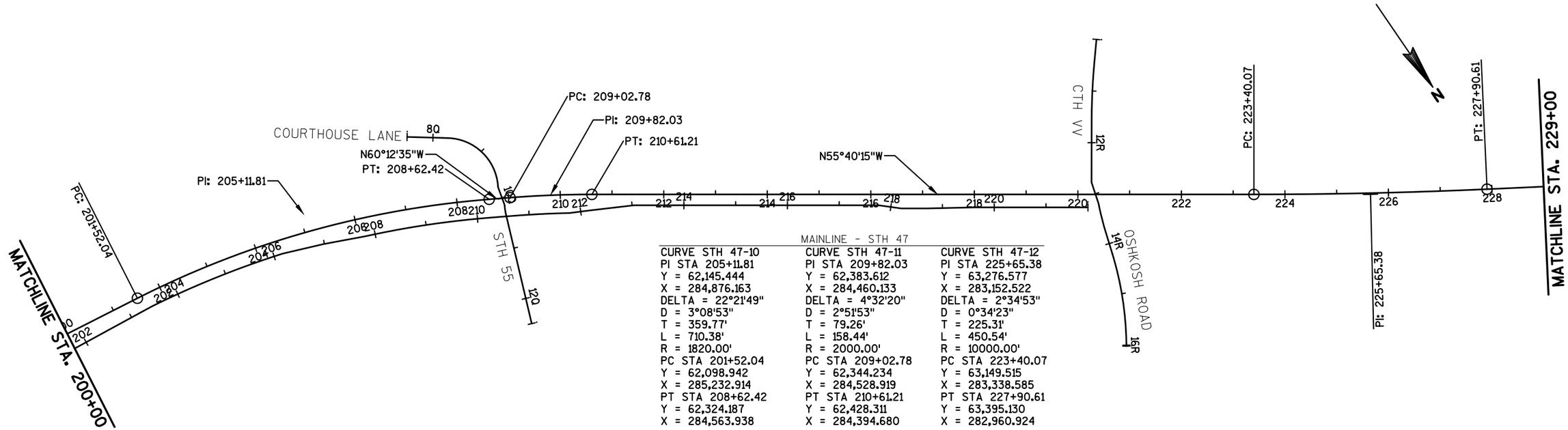
MATCHLINE STA. 200+00

N

MAINLINE - STH 47

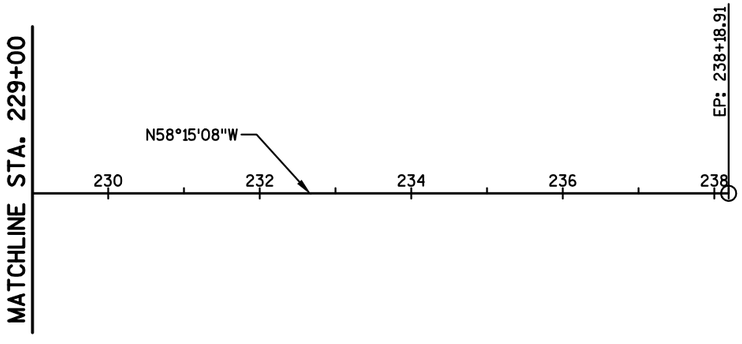
CURVE STH 47-8	CURVE STH 47-9
PI STA 182+23.69	PI STA 192+07.00
Y = 61,823.206	Y = 61,976.788
X = 287,141.751	X = 286,170.039
DELTA = 6°31'32"	DELTA = 1°33'17"
D = 1°32'55"	D = 0°45'50"
T = 210.93'	T = 101.77'
L = 421.39'	L = 203.53'
R = 3700.00'	R = 7500.00'
PC STA 180+12.76	PC STA 191+05.23
Y = 61,766.815	Y = 61,960.900
X = 287,344.998	X = 286,270.561
PT STA 184+34.16	PT STA 193+08.76
Y = 61,856.135	Y = 61,989.943
X = 286,933.412	X = 286,069.122

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	ALIGNMENT DIAGRAM	SHEET 179	E



MAINLINE - STH 47

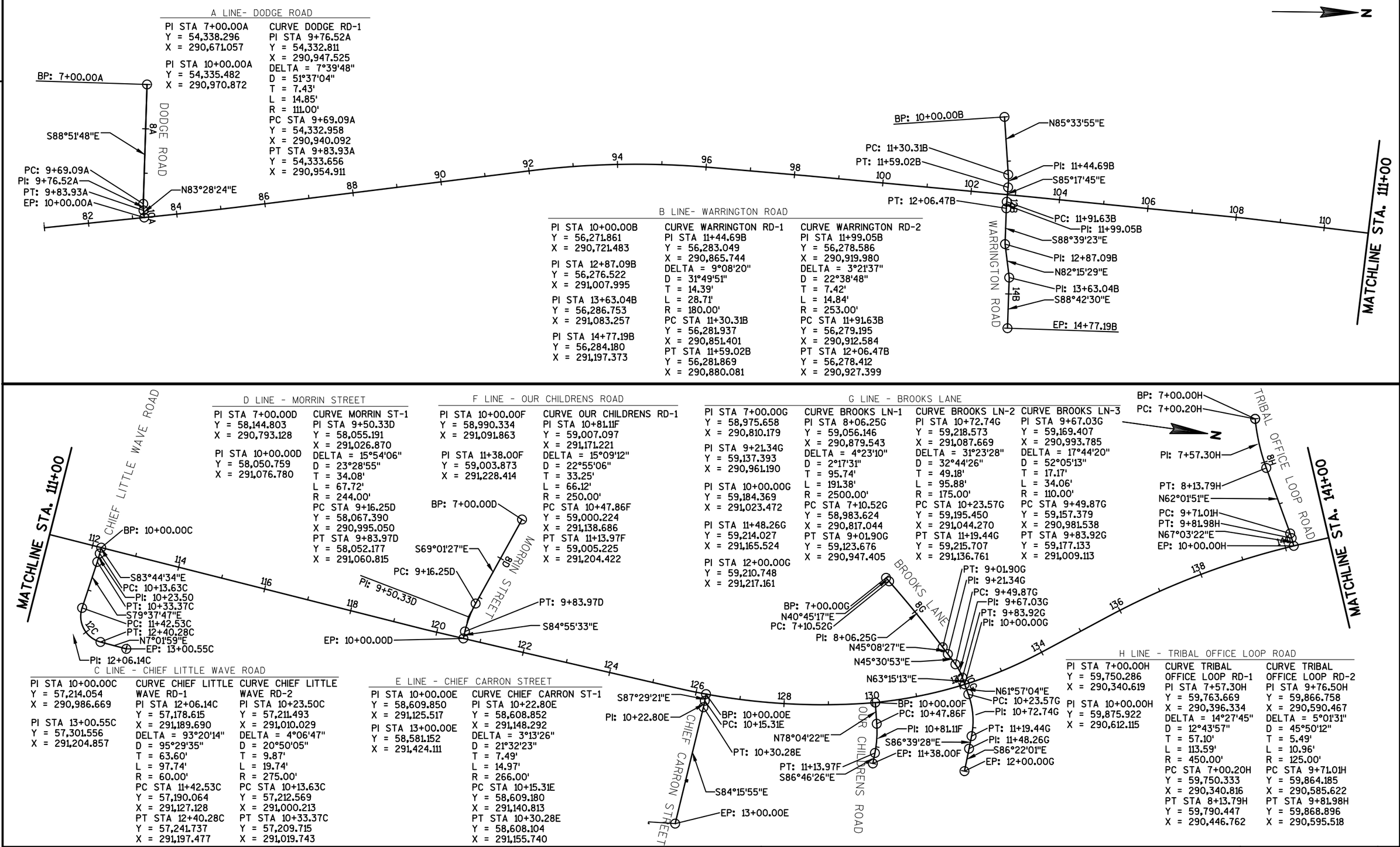
CURVE STH 47-10	CURVE STH 47-11	CURVE STH 47-12
PI STA 205+11.81	PI STA 209+82.03	PI STA 225+65.38
Y = 62,145.444	Y = 62,383.612	Y = 63,276.577
X = 284,876.163	X = 284,460.133	X = 283,152.522
DELTA = 22°21'49"	DELTA = 4°32'20"	DELTA = 2°34'53"
D = 3°08'53"	D = 2°51'53"	D = 0°34'23"
T = 359.77'	T = 79.26'	T = 225.31'
L = 710.38'	L = 158.44'	L = 450.54'
R = 1820.00'	R = 2000.00'	R = 10000.00'
PC STA 201+52.04	PC STA 209+02.78	PC STA 223+40.07
Y = 62,098.942	Y = 62,344.234	Y = 63,149.515
X = 285,232.914	X = 284,528.919	X = 283,338.585
PT STA 208+62.42	PT STA 210+61.21	PT STA 227+90.61
Y = 62,324.187	Y = 62,428.311	Y = 63,395.130
X = 284,563.938	X = 284,394.680	X = 282,960.924



MAINLINE - STH 47

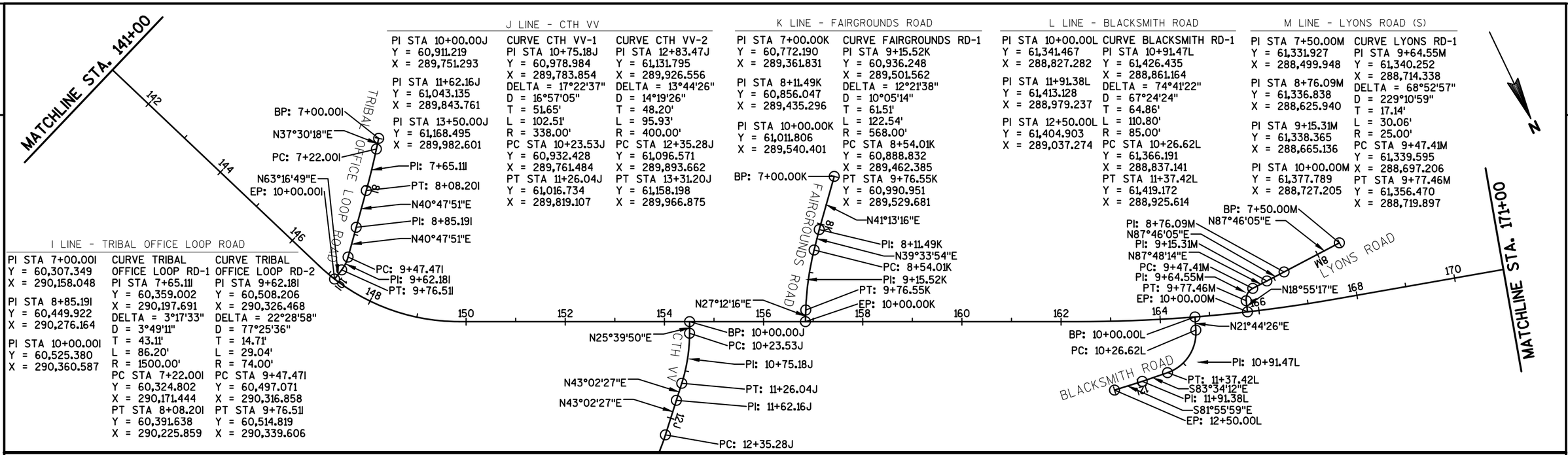
PI STA 238+18.91
Y = 63,936.202
X = 282,086.482

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	ALIGNMENT DIAGRAM	SHEET 180	E



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	ALIGNMENT DIAGRAM	SHEET 181	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0272_AD.DWG
LAYOUT NAME - ****
PLOT DATE : 1/28/2020 11:01 AM
PLOT BY : DOLAN, ISAAC
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42



I LINE - TRIBAL OFFICE LOOP ROAD

PI STA 7+00.00I	CURVE TRIBAL	CURVE TRIBAL
Y = 60,307.349	OFFICE LOOP RD-1	OFFICE LOOP RD-2
X = 290,158.048	PI STA 7+65.11I	PI STA 9+62.18I
	Y = 60,359.002	Y = 60,508.206
PI STA 8+85.19I	X = 290,197.691	X = 290,326.468
Y = 60,449.922	DELTA = 3°17'33"	DELTA = 22°28'58"
X = 290,276.164	D = 3°49'11"	D = 77°25'36"
	T = 43.11'	T = 14.71'
PI STA 10+00.00I	L = 86.20'	L = 29.04'
Y = 60,525.380	R = 1500.00'	R = 74.00'
X = 290,360.587	PC STA 7+22.00I	PC STA 9+47.47I
	Y = 60,324.802	Y = 60,497.071
	X = 290,171.444	X = 290,316.858
	PT STA 8+08.20I	PT STA 9+76.51I
	Y = 60,391.638	Y = 60,514.819
	X = 290,225.859	X = 290,339.606

J LINE - CTH VV

PI STA 10+00.00J	CURVE CTH VV-1	CURVE CTH VV-2
Y = 60,911.219	PI STA 10+75.18J	PI STA 12+83.47J
X = 289,751.293	Y = 60,978.984	Y = 61,131.795
	X = 289,783.854	X = 289,926.556
PI STA 11+62.16J	DELTA = 17°22'37"	DELTA = 13°44'26"
Y = 61,043.135	D = 16°57'05"	D = 14°19'26"
X = 289,843.761	T = 51.65'	T = 48.20'
	L = 102.51'	L = 95.93'
PI STA 13+50.00J	R = 338.00'	R = 400.00'
Y = 61,168.495	PC STA 10+23.53J	PC STA 12+35.28J
X = 289,982.601	Y = 60,932.428	Y = 61,096.571
	X = 289,761.484	X = 289,893.662
	PT STA 11+26.04J	PT STA 13+31.20J
	Y = 61,016.734	Y = 61,158.198
	X = 289,819.107	X = 289,966.875

K LINE - FAIRGROUNDS ROAD

PI STA 7+00.00K	CURVE FAIRGROUNDS RD-1
Y = 60,772.190	PI STA 9+15.52K
X = 289,361.831	Y = 60,936.248
	X = 289,501.562
PI STA 8+11.49K	DELTA = 12°21'38"
Y = 60,856.047	D = 10°05'14"
X = 289,435.296	T = 61.51'
	L = 122.54'
PI STA 10+00.00K	R = 568.00'
Y = 61,011.806	PC STA 8+54.01K
X = 289,540.401	Y = 60,888.832
	X = 289,462.385
	PT STA 9+76.55K
	Y = 60,990.951
	X = 289,529.681

L LINE - BLACKSMITH ROAD

PI STA 10+00.00L	CURVE BLACKSMITH RD-1
Y = 61,341.467	PI STA 10+91.47L
X = 288,827.282	Y = 61,426.435
	X = 288,861.164
PI STA 11+91.38L	DELTA = 74°41'22"
Y = 61,413.128	D = 67°24'24"
X = 288,979.237	T = 64.86'
	L = 110.80'
PI STA 12+50.00L	R = 85.00'
Y = 61,404.903	PC STA 10+26.62L
X = 289,037.274	Y = 61,366.191
	X = 288,837.141
	PT STA 11+37.42L
	Y = 61,419.172
	X = 288,925.614

M LINE - LYONS ROAD (S)

PI STA 7+50.00M	CURVE LYONS RD-1
Y = 61,331.927	PI STA 9+64.55M
X = 288,499.948	Y = 61,340.252
	X = 288,714.338
PI STA 8+76.09M	DELTA = 68°52'57"
Y = 61,336.838	D = 229°10'59"
X = 288,625.940	T = 17.14'
	L = 30.06'
PI STA 9+15.31M	R = 25.00'
Y = 61,338.365	PC STA 9+47.41M
X = 288,665.136	Y = 61,339.595
	X = 288,697.206
PI STA 10+00.00M	PT STA 9+77.46M
Y = 61,377.789	Y = 61,356.470
X = 288,727.205	X = 288,719.897

O LINE - LYONS ROAD (N)

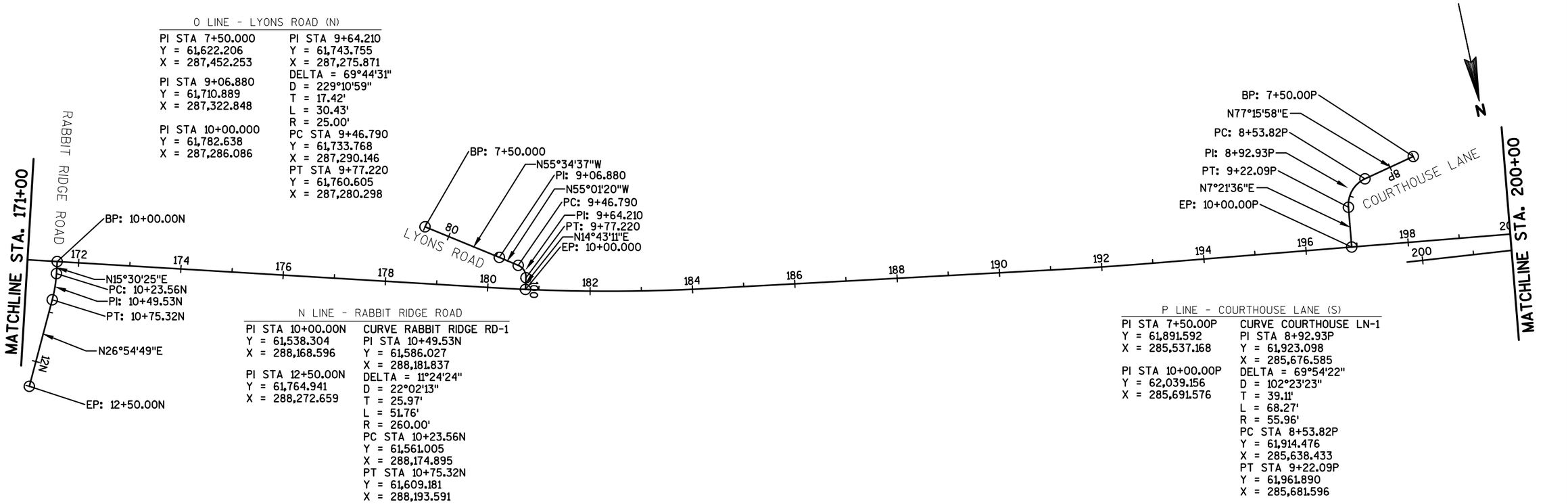
PI STA 7+50.000	PI STA 9+64.210
Y = 61,622.206	Y = 61,743.755
X = 287,452.253	X = 287,275.871
	DELTA = 69°44'31"
PI STA 9+06.880	D = 229°10'59"
Y = 61,710.889	T = 17.42'
X = 287,322.848	L = 30.43'
	R = 25.00'
PI STA 10+00.000	PC STA 9+46.790
Y = 61,782.638	Y = 61,733.768
X = 287,286.086	X = 287,290.146
	PT STA 9+77.220
	Y = 61,760.605
	X = 287,280.298

N LINE - RABBIT RIDGE ROAD

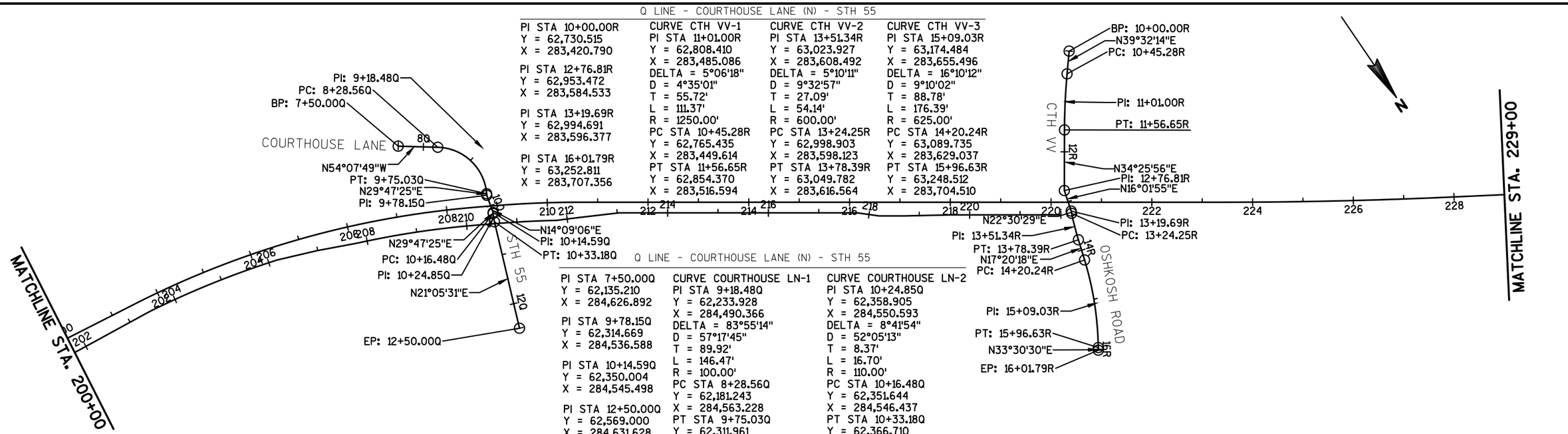
PI STA 10+00.00N	CURVE RABBIT RIDGE RD-1
Y = 61,538.304	PI STA 10+49.53N
X = 288,168.596	Y = 61,586.027
	X = 288,181.837
PI STA 12+50.00N	DELTA = 11°24'24"
Y = 61,764.941	D = 22°02'13"
X = 288,272.659	T = 25.97'
	L = 51.76'
	R = 260.00'
	PC STA 10+23.56N
	Y = 61,561.005
	X = 288,174.895
	PT STA 10+75.32N
	Y = 61,609.181
	X = 288,193.591

P LINE - COURTHOUSE LANE (S)

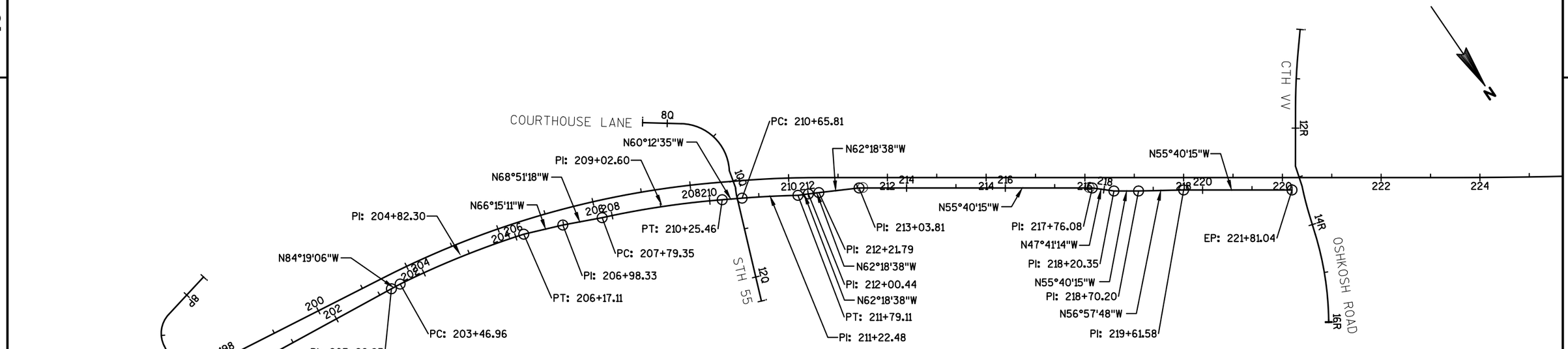
PI STA 7+50.00P	CURVE COURTHOUSE LN-1
Y = 61,891.592	PI STA 8+92.93P
X = 285,537.168	Y = 61,923.098
	X = 285,676.585
PI STA 10+00.00P	DELTA = 69°54'22"
Y = 62,039.156	D = 102°23'23"
X = 285,691.576	T = 39.11'
	L = 68.27'
	R = 55.96'
	PC STA 8+53.82P
	Y = 61,914.476
	X = 285,638.433
	PT STA 9+22.09P
	Y = 61,961.890
	X = 285,681.596



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	ALIGNMENT DIAGRAM	SHEET 182	E


Q LINE - COURTHOUSE LANE (N) - STH 55
PI STA 10+00.00R
Y = 62,730.515
X = 283,420.790
PI STA 12+76.81R
Y = 62,953.472
X = 283,584.533
PI STA 13+19.69R
Y = 62,994.691
X = 283,596.377
PI STA 16+01.79R
Y = 63,252.811
X = 283,707.356
CURVE CTH VV-1
PI STA 11+01.00R
Y = 62,808.410
X = 283,485.086
DELTA = 5°06'18"
D = 4°35'01"
T = 55.72'
L = 111.37'
R = 1250.00'
PC STA 10+45.28R
Y = 62,765.435
X = 283,449.614
PT STA 11+56.65R
Y = 62,854.370
X = 283,516.594
CURVE CTH VV-2
PI STA 13+51.34R
Y = 63,023.927
X = 283,608.492
DELTA = 5°10'11"
D = 9°32'57"
T = 27.09'
L = 54.14'
R = 600.00'
PC STA 13+24.25R
Y = 62,998.903
X = 283,598.123
PT STA 13+78.39R
Y = 63,049.782
X = 283,616.564
CURVE CTH VV-3
PI STA 15+09.03R
Y = 63,174.484
X = 283,655.496
DELTA = 16°10'12"
D = 9°10'02"
T = 88.78'
L = 176.39'
R = 625.00'
PC STA 14+20.24R
Y = 63,089.735
X = 283,629.037
PT STA 15+96.63R
Y = 63,248.512
X = 283,704.510
Q LINE - COURTHOUSE LANE (N) - STH 55
PI STA 7+50.00Q
Y = 62,135.210
X = 284,626.892
PI STA 9+78.15Q
Y = 62,314.669
X = 284,536.588
PI STA 10+14.59Q
Y = 62,350.004
X = 284,545.498
PI STA 12+50.00Q
Y = 62,569.000
X = 284,631.628
CURVE COURTHOUSE LN-1
PI STA 9+18.48Q
Y = 62,233.928
X = 284,490.366
DELTA = 83°55'14"
D = 57°17'45"
T = 89.92'
L = 146.47'
R = 100.00'
PC STA 8+28.56Q
Y = 62,181.243
X = 284,563.228
PT STA 9+75.03Q
Y = 62,311.961
X = 284,535.038
CURVE COURTHOUSE LN-2
PI STA 10+24.85Q
Y = 62,358.905
X = 284,550.593
DELTA = 8°41'54"
D = 52°05'13"
T = 8.37'
L = 16.70'
R = 110.00'
PC STA 10+16.48Q
Y = 62,351.644
X = 284,546.437
PT STA 10+33.18Q
Y = 62,366.710
X = 284,553.604
MATCHLINE STA. 200+00
MATCHLINE STA. 229+00
COURTHOUSE LANE
STH 55
CTH VV
OSHKOSH ROAD
PI: 9+18.48Q
PC: 8+28.56Q
BP: 7+50.00Q
N54°07'49"W
PT: 9+75.03Q
N29°47'25"E
PI: 9+78.15Q
N29°47'25"E
PC: 10+16.48Q
PI: 10+24.85Q
N21°05'31"E
EP: 12+50.00Q
N14°09'06"E
PI: 10+14.59Q
PT: 10+33.18Q
BP: 10+00.00R
N39°32'14"E
PC: 10+45.28R
PI: 11+01.00R
PT: 11+56.65R
N34°25'56"E
PI: 12+76.81R
N16°01'55"E
N22°30'29"E
PI: 13+19.69R
PC: 13+24.25R
PI: 13+51.34R
PT: 13+78.39R
N17°20'18"E
PC: 14+20.24R
PI: 15+09.03R
PT: 15+96.63R
N33°30'30"E
EP: 16+01.79R
N
MATCHLINE STA. 229+00
MATCHLINE STA. 200+00
N

2



SIDEWALK

PI STA 199+73.65
Y = 62,090.944
X = 285,587.903

PI STA 203+26.85
Y = 62,125.912
X = 285,236.430

PI STA 204+82.30
Y = 62,147.002
X = 285,082.438
DELTA = 8°37'50"
D = 3°11'41"
T = 135.33'
L = 270.15'
R = 1793.42'
PC STA 203+46.96
Y = 62,128.006
X = 285,216.430
PT STA 206+17.11
Y = 62,185.889
X = 284,952.815

PI STA 206+98.33
Y = 62,215.188
X = 284,877.063

PI STA 209+02.60
Y = 62,293.761
X = 284,688.538
DELTA = 7°54'07"
D = 3°12'39"
T = 123.25'
L = 246.11'
R = 1784.50'
PC STA 207+79.35
Y = 62,247.814
X = 284,802.904
PT STA 210+25.46
Y = 62,354.995
X = 284,581.575

PI STA 211+22.48
Y = 62,403.194
X = 284,497.381
DELTA = 3°18'15"
D = 2°55'00"
T = 56.66'
L = 113.29'
R = 1964.50'
PC STA 210+65.81
Y = 62,375.043
X = 284,546.556
PT STA 211+79.11
Y = 62,434.134
X = 284,449.911

PI STA 212+00.44
Y = 62,443.699
X = 284,430.850

PI STA 212+21.79
Y = 62,453.484
X = 284,411.871

PI STA 213+11.13
Y = 62,495.021
X = 284,332.720

PI STA 217+70.01
Y = 62,753.804
X = 283,953.771

PI STA 218+20.35
Y = 62,787.732
X = 283,916.502

PI STA 218+70.20
Y = 62,815.846
X = 283,875.332

PI STA 219+61.58
Y = 62,865.664
X = 283,798.727

PI STA 221+81.04
Y = 62,989.428
X = 283,617.493

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	ALIGNMENT DIAGRAM	SHEET 184	E

Estimate Of Quantities

					9650-17-61	9650-17-70
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0002	201.0105	Clearing	STA	57.500		57.500
0004	201.0205	Grubbing	STA	57.500		57.500
0006	203.0100	Removing Small Pipe Culverts	EACH	26.000		26.000
0008	203.0600.S	Removing Old Structure Over Waterway With Minimal Debris (station) 01. 154+20	LS	1.000		1.000
0010	204.0100	Removing Concrete Pavement	SY	351.000	229.000	122.000
0012	204.0120	Removing Asphaltic Surface Milling	SY	42,600.000		42,600.000
0014	204.0150	Removing Curb & Gutter	LF	3,050.000		3,050.000
0016	204.0155	Removing Concrete Sidewalk	SY	3,770.000		3,770.000
0018	204.0165	Removing Guardrail	LF	885.000		885.000
0020	204.0190	Removing Surface Drains	EACH	2.000	2.000	
0022	204.0220	Removing Inlets	EACH	14.000	2.000	12.000
0024	204.0245	Removing Storm Sewer (size) 01. 12-Inch	LF	70.000	56.000	14.000
0026	204.0245	Removing Storm Sewer (size) 02. 15-Inch	LF	298.000		298.000
0028	204.0245	Removing Storm Sewer (size) 03. 18-Inch	LF	434.000		434.000
0030	205.0100	Excavation Common	CY	20,836.000		20,836.000
0032	205.0501.S	Excavation, Hauling, and Disposal of Petroleum Contaminated Soil	TON	980.000		980.000
0034	206.2000	Excavation for Structures Culverts (structure) 01. C-73-0004	LS	1.000		1.000
0036	208.0100	Borrow	CY	9,113.000		9,113.000
0038	210.1500	Backfill Structure Type A	TON	195.000		195.000
0040	210.2500	Backfill Structure Type B	TON	530.000		530.000
0042	211.0100	Prepare Foundation for Asphaltic Paving (project) 01. 9650-17-70	LS	1.000		1.000
0044	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	27.000		27.000
0046	213.0100	Finishing Roadway (project) 01. 9650-17-61	EACH	1.000	1.000	
0048	213.0100	Finishing Roadway (project) 02. 9650-17-70	EACH	1.000		1.000
0050	305.0110	Base Aggregate Dense 3/4-Inch	TON	970.000		970.000
0052	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	20,680.000		20,680.000
0054	311.0110	Breaker Run	TON	6,676.000		6,676.000
0056	415.0410	Concrete Pavement Approach Slab	SY	177.000	177.000	
0058	416.0160	Concrete Driveway 6-Inch	SY	1,215.000		1,215.000
0060	416.0610	Drilled Tie Bars	EACH	22.000	22.000	
0062	416.1010	Concrete Surface Drains	CY	9.000	9.000	
0064	450.4000	HMA Cold Weather Paving	TON	600.000		600.000
0066	455.0605	Tack Coat	GAL	2,660.000		2,660.000
0068	460.2000	Incentive Density HMA Pavement	DOL	5,010.000		5,010.000
0070	460.5223	HMA Pavement 3 LT 58-28 S	TON	830.000		830.000
0072	460.5244	HMA Pavement 4 LT 58-34 S	TON	6,990.000		6,990.000
0074	465.0110	Asphaltic Surface Patching	TON	2,000.000		2,000.000

					9650-17-61	9650-17-70
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0076	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	234.000		234.000
0078	465.0125	Asphaltic Surface Temporary	TON	52.000		52.000
0080	502.0120.S	Non-Shrink Grout	CF	2.000	2.000	
0082	502.3200	Protective Surface Treatment	SY	1,195.000	1,195.000	
0084	502.3210	Pigmented Surface Sealer	SY	346.000	333.000	13.000
0086	502.3215.S	Protective Surface Treatment Reseal	SY	200.000	200.000	
0088	504.0100	Concrete Masonry Culverts	CY	36.000		36.000
0090	504.1000.S	Precast Concrete Wingwalls (structure) 01. C-73-0004	LS	1.000		1.000
0092	504.2000.S	Precast Concrete Box Culvert (ft X ft) 01. 6 FT x 3 FT	LF	80.000		80.000
0094	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	4,870.000		4,870.000
0096	509.0301	Preparation Decks Type 1	SY	145.000	145.000	
0098	509.0302	Preparation Decks Type 2	SY	80.000	80.000	
0100	509.0500	Cleaning Decks	SY	1,200.000	1,200.000	
0102	509.1500	Concrete Surface Repair	SF	350.000	350.000	
0104	509.2000	Full-Depth Deck Repair	SY	4.000	4.000	
0106	509.2500	Concrete Masonry Overlay Decks	CY	90.000	90.000	
0108	509.9050.S	Cleaning Parapets	LF	630.000	630.000	
0110	511.1200	Temporary Shoring (structure) 01. C-73-0004	SF	800.000		800.000
0112	513.8006	Railing Steel Pedestrian Type C1	LF	31.000		31.000
0114	516.0500	Rubberized Membrane Waterproofing	SY	7.000		7.000
0116	521.1012	Apron Endwalls for Culvert Pipe Steel 12-Inch	EACH	2.000	2.000	
0118	522.0124	Culvert Pipe Reinforced Concrete Class III 24-Inch	LF	240.000		240.000
0120	522.0136	Culvert Pipe Reinforced Concrete Class III 36-Inch	LF	112.000		112.000
0122	522.0418	Culvert Pipe Reinforced Concrete Class IV 18-Inch	LF	144.000		144.000
0124	522.0424	Culvert Pipe Reinforced Concrete Class IV 24-Inch	LF	50.000		50.000
0126	522.0430	Culvert Pipe Reinforced Concrete Class IV 30-Inch	LF	78.000		78.000
0128	522.1012	Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	EACH	8.000		8.000
0130	522.1015	Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch	EACH	6.000		6.000
0132	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	9.000		9.000
0134	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	11.000		11.000
0136	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	3.000		3.000
0138	522.1036	Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	EACH	3.000		3.000
0140	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	55.000		55.000
0142	602.0405	Concrete Sidewalk 4-Inch	SF	97,600.000		97,600.000
0144	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	160.000		160.000

					9650-17-61	9650-17-70
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0146	602.0605	Curb Ramp Detectable Warning Field Radial Yellow	SF	532.000		532.000
0148	602.1500	Concrete Steps	SF	90.000		90.000
0150	603.8000	Concrete Barrier Temporary Precast Delivered	LF	837.500	587.500	250.000
0152	603.8125	Concrete Barrier Temporary Precast Installed	LF	1,850.000	1,175.000	675.000
0154	606.0200	Riprap Medium	CY	213.000		213.000
0156	606.0300	Riprap Heavy	CY	571.000		571.000
0158	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	1,457.000		1,457.000
0160	608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	LF	1,628.000		1,628.000
0162	608.0418	Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	LF	158.000		158.000
0164	608.0424	Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	LF	2,654.000		2,654.000
0166	608.0430	Storm Sewer Pipe Reinforced Concrete Class IV 30-Inch	LF	390.000		390.000
0168	608.0436	Storm Sewer Pipe Reinforced Concrete Class IV 36-Inch	LF	372.000		372.000
0170	611.0420	Reconstructing Manholes	EACH	12.000		12.000
0172	611.0530	Manhole Covers Type J	EACH	11.000		11.000
0174	611.0624	Inlet Covers Type H	EACH	72.000		72.000
0176	611.0639	Inlet Covers Type H-S	EACH	7.000		7.000
0178	611.0645	Inlet Covers Type MS-A	EACH	11.000		11.000
0180	611.0654	Inlet Covers Type V	EACH	3.000	2.000	1.000
0182	611.2004	Manholes 4-FT Diameter	EACH	5.000		5.000
0184	611.2005	Manholes 5-FT Diameter	EACH	17.000		17.000
0186	611.3004	Inlets 4-FT Diameter	EACH	10.000		10.000
0188	611.3220	Inlets 2x2-FT	EACH	2.000	2.000	
0190	611.3230	Inlets 2x3-FT	EACH	59.000		59.000
0192	611.3901	Inlets Median 1 Grate	EACH	11.000		11.000
0194	611.8110	Adjusting Manhole Covers	EACH	20.000		20.000
0196	611.8120.S	Cover Plates Temporary	EACH	135.000		135.000
0198	612.0212	Pipe Underdrain Unperforated 12-Inch	LF	50.000	50.000	
0200	612.0902.S	Insulation Board Polystyrene (inch) 01. 2-Inch	SY	286.000		286.000
0202	614.0200	Steel Thrie Beam Structure Approach	LF	20.650		20.650
0204	614.0305	Steel Plate Beam Guard Class A	LF	310.000		310.000
0206	614.0905	Crash Cushions Temporary	EACH	6.000	2.000	4.000
0208	614.2300	MGS Guardrail 3	LF	558.000		558.000
0210	614.2500	MGS Thrie Beam Transition	LF	118.200		118.200
0212	614.2610	MGS Guardrail Terminal EAT	EACH	5.000		5.000
0214	616.0405	Fence Chain Link Salvaged 5-FT	LF	327.000	327.000	

					9650-17-61	9650-17-70
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0216	618.0100	Maintenance And Repair of Haul Roads (project) 01. 9650-17-70	EACH	1.000		1.000
0218	619.1000	Mobilization	EACH	1.000	0.100	0.900
0220	624.0100	Water	MGAL	220.000		220.000
0222	625.0100	Topsoil	SY	44,460.000		44,460.000
0224	627.0200	Mulching	SY	5,654.000		5,654.000
0226	628.1504	Silt Fence	LF	8,916.000		8,916.000
0228	628.1520	Silt Fence Maintenance	LF	2,700.000		2,700.000
0230	628.1905	Mobilizations Erosion Control	EACH	15.000	1.000	14.000
0232	628.1910	Mobilizations Emergency Erosion Control	EACH	15.000	1.000	14.000
0234	628.2002	Erosion Mat Class I Type A	SY	32,816.000		32,816.000
0236	628.2006	Erosion Mat Urban Class I Type A	SY	11,784.000		11,784.000
0238	628.7005	Inlet Protection Type A	EACH	93.000		93.000
0240	628.7015	Inlet Protection Type C	EACH	83.000		83.000
0242	628.7020	Inlet Protection Type D	EACH	2.000	2.000	
0244	628.7555	Culvert Pipe Checks	EACH	663.000		663.000
0246	629.0210	Fertilizer Type B	CWT	28.000		28.000
0248	630.0120	Seeding Mixture No. 20	LB	98.000		98.000
0250	630.0130	Seeding Mixture No. 30	LB	196.000		196.000
0252	630.0140	Seeding Mixture No. 40	LB	638.000		638.000
0254	630.0500	Seed Water	MGAL	115.000		115.000
0256	633.5200	Markers Culvert End	EACH	10.000		10.000
0258	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	19.000		19.000
0260	637.2210	Signs Type II Reflective H	SF	18.000		18.000
0262	637.2230	Signs Type II Reflective F	SF	33.000		33.000
0264	638.2102	Moving Signs Type II	EACH	171.000		171.000
0266	638.2602	Removing Signs Type II	EACH	6.000		6.000
0268	638.3000	Removing Small Sign Supports	EACH	5.000		5.000
0270	642.5001	Field Office Type B	EACH	1.000		1.000
0272	643.0300	Traffic Control Drums	DAY	48,896.000	1,680.000	47,216.000
0274	643.0420	Traffic Control Barricades Type III	DAY	7,679.000	140.000	7,539.000
0276	643.0705	Traffic Control Warning Lights Type A	DAY	5,400.000	140.000	5,260.000
0278	643.0715	Traffic Control Warning Lights Type C	DAY	4,042.000	1,680.000	2,362.000
0280	643.0900	Traffic Control Signs	DAY	98,443.000	5,180.000	93,263.000
0282	643.0920	Traffic Control Covering Signs Type II	EACH	4.000		4.000
0284	643.1000	Traffic Control Signs Fixed Message	SF	128.000		128.000
0286	643.1070	Traffic Control Cones 42-Inch	DAY	3,810.000		3,810.000
0288	643.5000	Traffic Control	EACH	1.000	0.100	0.900
0290	644.1410	Temporary Pedestrian Surface Asphalt	SF	2,000.000		2,000.000
0292	644.1601	Temporary Pedestrian Curb Ramp	DAY	532.000		532.000

					9650-17-61	9650-17-70
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0294	645.0105	Geotextile Type C	SY	9.000		9.000
0296	645.0120	Geotextile Type HR	SY	309.000	12.000	297.000
0298	645.0220	Geogrid Type SR	SY	5,340.000		5,340.000
0300	646.1020	Marking Line Epoxy 4-Inch	LF	15,884.000		15,884.000
0302	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	9,490.000		9,490.000
0304	646.3020	Marking Line Epoxy 8-Inch	LF	199.000		199.000
0306	646.4520	Marking Line Same Day Epoxy 4-Inch	LF	25,950.000		25,950.000
0308	646.5020	Marking Arrow Epoxy	EACH	33.000		33.000
0310	646.5120	Marking Word Epoxy	EACH	1.000		1.000
0312	646.5220	Marking Symbol Epoxy	EACH	29.000		29.000
0314	646.6120	Marking Stop Line Epoxy 18-Inch	LF	335.000		335.000
0316	646.6464	Cold Weather Marking Epoxy 4-Inch	LF	25,374.000		25,374.000
0318	646.6468	Cold Weather Marking Epoxy 8-Inch	LF	199.000		199.000
0320	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	2,063.000		2,063.000
0322	646.7520	Marking Crosswalk Epoxy Block Style 24-Inch	LF	444.000		444.000
0324	646.9000	Marking Removal Line 4-Inch	LF	4,658.000	720.000	3,938.000
0326	648.0100	Locating No-Passing Zones	MI	0.820		0.820
0328	649.0105	Temporary Marking Line Paint 4-Inch	LF	10,279.000	1,440.000	8,839.000
0330	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	13,902.000	3,024.000	10,878.000
0332	649.0250	Temporary Marking Line Removable Tape 8-Inch	LF	828.000		828.000
0334	649.0850	Temporary Marking Stop Line Removable Tape 18-Inch	LF	123.000	12.000	111.000
0336	650.4000	Construction Staking Storm Sewer	EACH	126.000	2.000	124.000
0338	650.4500	Construction Staking Subgrade	LF	13,980.000		13,980.000
0340	650.5000	Construction Staking Base	LF	13,980.000		13,980.000
0342	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	18,916.000		18,916.000
0344	650.6000	Construction Staking Pipe Culverts	EACH	8.000		8.000
0346	650.6500	Construction Staking Structure Layout (structure) 01. C-73-0004	LS	1.000		1.000
0348	650.8000	Construction Staking Resurfacing Reference	LF	12,817.000		12,817.000
0350	650.8500	Construction Staking Electrical Installations (project) 01. 9650-17-70	LS	1.000		1.000
0352	650.9000	Construction Staking Curb Ramps	EACH	45.000		45.000
0354	650.9910	Construction Staking Supplemental Control (project) 01. 9650-17-70	LS	1.000		1.000
0356	650.9920	Construction Staking Slope Stakes	LF	13,980.000		13,980.000
0358	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	13,908.000		13,908.000
0360	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	599.000		599.000
0362	653.0164	Pull Boxes Non-Conductive 24x42-Inch	EACH	30.000		30.000
0364	654.0101	Concrete Bases Type 1	EACH	2.000		2.000
0366	654.0105	Concrete Bases Type 5	EACH	78.000		78.000

					9650-17-61	9650-17-70
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0368	654.0230	Concrete Control Cabinet Bases Type L30	EACH	5.000		5.000
0370	655.0610	Electrical Wire Lighting 12 AWG	LF	10,680.000		10,680.000
0372	655.0620	Electrical Wire Lighting 8 AWG	LF	72,305.000		72,305.000
0374	655.0630	Electrical Wire Lighting 4 AWG	LF	10,330.000		10,330.000
0376	655.0635	Electrical Wire Lighting 2 AWG	LF	2,782.000		2,782.000
0378	656.0200	Electrical Service Meter Breaker Pedestal (location) 01. STH 47 & Warrington Road	LS	1.000		1.000
0380	656.0200	Electrical Service Meter Breaker Pedestal (location) 02. STH 47 & Tribal Office Loop	LS	1.000		1.000
0382	656.0200	Electrical Service Meter Breaker Pedestal (location) 03. STH 47 & Lyons Road	LS	1.000		1.000
0384	656.0200	Electrical Service Meter Breaker Pedestal (location) 04. STH 47 & STH 55	LS	1.000		1.000
0386	656.0200	Electrical Service Meter Breaker Pedestal (location) 05. STH 47 & Wolf River Dr	LS	1.000		1.000
0388	657.0100	Pedestal Bases	EACH	2.000		2.000
0390	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	78.000		78.000
0392	657.0322	Poles Type 5-Aluminum	EACH	56.000		56.000
0394	657.0420	Traffic Signal Standards Aluminum 13-FT	EACH	2.000		2.000
0396	657.0615	Luminaire Arms Single Member 4 1/2-Inch Clamp 8-FT	EACH	78.000		78.000
0398	658.0500	Pedestrian Push Buttons	EACH	2.000		2.000
0400	659.1120	Luminaires Utility LED B	EACH	78.000		78.000
0402	659.2130	Lighting Control Cabinets 120/240 30-Inch	EACH	2.000		2.000
0404	661.0100	Temporary Traffic Signals for Bridges (structure) 01. B-73-0004	LS	1.000	1.000	
0406	661.0100	Temporary Traffic Signals for Bridges (structure) 02. C-73-0004	LS	1.000		1.000
0408	661.0100	Temporary Traffic Signals for Bridges (structure) 03. Culvert STA. 175+75	LS	1.000		1.000
0410	661.0100	Temporary Traffic Signals for Bridges (structure) 04. Culvert STA. 200+35	LS	1.000		1.000
0412	690.0150	Sawing Asphalt	LF	26,462.000		26,462.000
0414	690.0250	Sawing Concrete	LF	147.000		147.000
0416	715.0415	Incentive Strength Concrete Pavement	DOL	500.000	500.000	
0418	715.0502	Incentive Strength Concrete Structures	DOL	500.000		500.000
0420	740.0440	Incentive IRI Ride	DOL	21,340.000		21,340.000
0422	SPV.0060	Special 01. Salvage Existing Light Pole Assembly	EACH	13.000		13.000
0424	SPV.0060	Special 02. Light Pole Type 5 Special	EACH	22.000		22.000
0426	SPV.0060	Special 03. Lighting Control Cabinet 120/240 30-Inch Special	EACH	3.000		3.000
0428	SPV.0060	Special 04. Lane Shift	EACH	5.000		5.000
0430	SPV.0060	Special 05. Sanitary Chimney Seals	EACH	32.000		32.000

					9650-17-61	9650-17-70
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0432	SPV.0060	Special 06. Removing Water Main Valve & Valve Box	EACH	2.000		2.000
0434	SPV.0060	Special 07. Cap Water Main to Remain in Service	EACH	1.000		1.000
0436	SPV.0060	Special 08. Abandoning Water Main Valve Box	EACH	8.000		8.000
0438	SPV.0060	Special 09. Salvage Hydrant	EACH	3.000		3.000
0440	SPV.0060	Special 10. Adjusting Water Main Valve Box	EACH	23.000		23.000
0442	SPV.0060	Special 11. Adjusting Hydrant	EACH	5.000		5.000
0444	SPV.0060	Special 12. Water Main Gate Valve & Box 6-Inch	EACH	4.000		4.000
0446	SPV.0060	Special 13. Tracer Wire Access Box	EACH	3.000		3.000
0448	SPV.0060	Special 14. Water Main Coupling 6-Inch	EACH	1.000		1.000
0450	SPV.0060	Special 15. Water Main Bend 45-Degree 6-Inch	EACH	12.000		12.000
0452	SPV.0060	Special 16. Water Main Tapping Sleeve 6x6-Inch	EACH	1.000		1.000
0454	SPV.0060	Special 17. Steel Plate Beam Guard Connection	EACH	1.000		1.000
0456	SPV.0090	Special 01. Concrete Curb & Gutter 24-Inch Type D	LF	18,861.000		18,861.000
0458	SPV.0090	Special 02. Water Main 6-Inch	LF	29.000		29.000
0460	SPV.0090	Special 03. Construction Staking Sidewalk	LF	2,200.000		2,200.000
0462	SPV.0105	Special 01. Rectangular Rapid Flashing Beacon System STH 47 & Warrington Road	LS	1.000		1.000
0464	SPV.0105	Special 02. Temporary Stream Diversion Pipe, Keshena Lake Outlet	LS	1.000		1.000
0466	SPV.0180	Special 01. Preparing Topsoil for Lawn Type Turf	SY	27,920.000		27,920.000

CLEARING AND GRUBBING

STAGE	STATION	-	STATION	LOCATION	OFFSET	201.0150 CLEARING STA	201.0205 GRUBBING STA
3							
	83+50		84+50	STH 47	LT	1	1
	86+00		86+50	STH 47	LT	0.5	0.5
	89+50		93+50	STH 47	LT	4	4
	94+00		101+00	STH 47	LT	7	7
	103+50		104+50	STH 47	LT	0.5	0.5
	105+50		108+00	STH 47	LT	0.5	0.5
	108+50		119+50	STH 47	LT	9.5	9.5
	122+50		127+50	STH 47	LT	3.5	3.5
	133+00		140+00	STH 47	LT	3.5	3.5
	142+00		143+00	STH 47	LT	0.5	0.5
	144+00		145+00	STH 47	LT	0.5	0.5
	146+00		146+50	STH 47	LT	0.5	0.5
	147+50		148+50	STH 47	LT	0.5	0.5
	11+00		11+50	WARRINGTON RD	LT	0.5	0.5
				STAGE 3 SUBTOTALS		32.5	32.5
4							
	85+00		86+50	STH 47	RT	1.5	1.5
	88+00		88+50	STH 47	RT	0.5	0.5
	90+00		92+50	STH 47	RT	2.5	2.5
	94+00		95+50	STH 47	RT	1.5	1.5
	115+00		115+50	STH 47	RT	0.5	0.5
	136+50		137+50	STH 47	RT	0.5	0.5
	141+50		142+50	STH 47	RT	0.5	0.5
	148+50		149+50	STH 47	RT	0.5	0.5
	150+00		151+50	STH 47	RT	1	1
				STAGE 4 SUBTOTALS		9	9
5							
	162+00		162+50	STH 47	RT	0.5	0.5
	168+00		170+50	STH 47	RT	2	2
	175+00		178+00	STH 47	RT	2.5	2.5
				STAGE 5 SUBTOTALS		5	5
6							
	168+50		171+00	STH 47	LT	2	2
	171+50		172+00	STH 47	LT	0.5	0.5
	175+00		178+00	STH 47	LT	2.5	2.5
	182+00		190+00	STH 47	LT	5.5	5.5
	180+50		181+00	LYONS RD (NORTH)	LT	0.5	0.5
				STAGE 6 SUBTOTALS		11	11
PROJECT 9650-17-70 TOTAL						**57.5**	**57.5**

REMOVING PIPE

STATION	LOCATION	SIZE (IN)	LENGTH (FT)	MATERIAL	203.0100 REMOVING SMALL PIPE CULVERTS EACH
82+90	DRIVEWAY, RT	---	22	CMP	1
83+27	DODGE RD, LT	24	34	CMP	1
86+61	DRIVEWAY, LT	15	26	CMP	1
87+77	DRIVEWAY, RT	12	21	CMP	1
91+37	DRIVEWAY, RT	18	21	CMP	1
92+29	DRIVEWAY, RT	15	32	CMP	1
93+63	STH 47, CROSS	24	49	CMP	1
95+09	DRIVEWAY, RT	15	40	CMP	1
96+82	DRIVEWAY, RT	15X24	11	CMP	1
99+30	DRIVEWAY, RT	12	88	CMP	1
99+53	OUTFALL PIPE, RT	15X24	14	CMP	1
99+80	DRIVEWAY, RT	15	22	CMP	1
101+58	DRIVEWAY, LT	18	39	CMP	1
102+73	DRIVEWAY, LT	24	45	CMP	1
106+91	DRIVEWAY, RT	12X18	53	CMP	1
112+21	CHIEF LITTLE WAVE RD, RT	18	44	CMP	1
126+25	CHIEF CARRON RD, RT	18	49	RCP	1
132+04	BROOKS LN, LT	18	88	RCP	1
132+10	OUR CHILDRENS RD, RT	18	57	RCP	1
139+66	STH 47, CROSS	18	71	CMP	1
147+53	NORTH TRIBAL OFFICE LOOP RD, RT	18	40	RCP	1
175+75	STH 47, CROSS	24	84	CMP	1
178+75	DRIVEWAY, RT	18	58	RCP	1
180+00	DRIVEWAY, RT	18	46	RCP	1
189+60	STH 47, CROSS	24	83	CMP	1
200+40	STH 47, CROSS	36	118	CMP	1
PROJECT 9650-17-70 TOTAL					**26**

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ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

REMOVING PAVEMENT

STAGE	PROJECT	STATION	-	STATION	204.0100 REMOVING PAVEMENT SY
2	9650-17-61				
		212+12	-	212+49	105
		215+25	-	215+67	124
				STAGE 2 SUBTOTAL	229
3	9650-17-70				
		106+60	-	106+73	17
		111+17	-	111+46	16
		116+17	-	116+40	26
		121+18	-	121+38	9
		122+17	-	122+39	11
		122+89	-	123+12	11
		124+64	-	124+84	9
		149+52	-	149+67	10
		149+89	-	150+00	13
				STAGE 3 SUBTOTAL	122
PROJECT 9650-17-61 TOTAL					**229**
PROJECT 9650-17-70 TOTAL					**122**

REMOVING ASPHALTIC SURFACE MILLING

STAGE	STATION	-	STATION	LOCATION	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY
3					
	82+45	-	146+00	STH 47 LT, 2.5" DEPTH	9,200
				STAGE 3 SUBTOTAL	9,200
4	82+45	-	146+00	STH 47 RT, 2.5" DEPTH	10,200
				STAGE 4 SUBTOTAL	10,200
5	158+00	-	221+50	STH 47 RT, 2.5" DEPTH	11,100
				STAGE 5 SUBTOTAL	11,100
6	158+00	-	221+50	STH 47 LT, 2.5" DEPTH	12,100
				STAGE 6 SUBTOTAL	12,100
PROJECT 9650-17-70 TOTAL					**42,600**

REMOVING CURB & GUTTER

STAGE	STATION	-	STATION	LOCATION	204.0150 REMOVING CURB & GUTTER LF
1	154+03	-	154+36	STH 47, RT	44
				STAGE 1 SUBTOTAL	44
3	9+00	-	9+32	MORRIN ST, LT/RT	66
	131+48	-	131+83	BROOKS LN SW RADIUS, STH 47, LT	73
	132+05	-	132+81	BROOKS LN NW RADIUS, STH 47, LT	102
	9+20	-	9+66	N TRIBAL OFFICE LOOP RD, LT	51
				STAGE 3 SUBTOTAL	292
4	12+19	-	14+38	WARRINGTON RD, RT	218
	12+28	-	14+38	WARRINGTON RD, LT	210
	109+79	-	111+69	STH 47, RT	190
	112+66	-	121+00	STH 47, RT	834
	121+46	-	121+55	STH 47, RT	9
	125+53	-	125+62	STH 47, RT	9
	132+19	-	135+77	OUR CHILDRENS RD NE RADIUS, STH 47, RT	408
	145+47	-	145+86	STH 47, RT	39
				STAGE 4 SUBTOTAL	1,917
5	178+66	-	179+00	STH 47, RT (P. LOT ENTRANCE)	36
	179+80	-	180+13	STH 47, RT (P. LOT ENTRANCE)	34
	193+59	-	197+93	STH 47, RT	434
		208+57		STH 55 NE RADIUS, STH 47, RT	13
		209+36		STH 55 NW RADIUS, STH 47, RT	17
				STAGE 5 SUBTOTAL	534
6	156+26	-	156+81	FAIRGROUNDS RD SE RADIUS, STH 47, LT	113
	157+08	-	157+61	FAIRGROUNDS RD SW RADIUS, STH 47, LT	112
				STAGE 6 SUBTOTAL	225
PROJECT 9650-17-70 TOTAL					**3,050**

REMOVING STORM SEWER

STATION	PROJECT	LOCATION	204.0245 REMOVING STORM SEWER (SIZE) 01. 12-INCH LF	204.0245 REMOVING STORM SEWER (SIZE) 02. 15-INCH LF	204.0245 REMOVING STORM SEWER (SIZE) 03. 18-INCH LF
101+93	9650-17-70	STH 47, RT	---	---	130
102+87	9650-17-70	CROSS WARRINGTON RD	---	---	63
103+20	9650-17-70	NE CORNER STH 47/WARRINGTON RD	---	---	20
113+12	9650-17-70	STH 47, RT	---	---	15
113+13	9650-17-70	CROSS STH 47	---	---	45
125+55	9650-17-70	STH 47, CROSS	---	---	52
133+50	9650-17-70	STH 47, RT	---	79	---
133+87	9650-17-70	STH 47, RT	14	---	---
134+80	9650-17-70	STH 47, RT	---	185	---
135+81	9650-17-70	STH 47, RT	---	34	---
147+24	9650-17-70	STH 47, LT	---	---	64
154+50	9650-17-70	CROSS CTH VV	---	---	45
215+40	9650-17-61	NW CORNER B-73-004	29	---	---
215+61	9650-17-61	NE CORNER B-73-004	27	---	---
PROJECT 9650-17-61 TOTAL			**56**	---	---
PROJECT 9650-17-70 TOTAL			**14**	**298**	**434**

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

REMOVING CONCRETE SIDEWALK

STAGE	STATION	-	STATION	LOCATION	204.0155 REMOVING CONCRETE SIDEWALK SY
1	151+75	-	155+50	STH 47, RT	60
				STAGE 1 SUBTOTAL	60
3	82+87	-	102+80	STH 47, RT	1,200
	103+12	-	110+53	STH 47, RT	360
	110+86	-	111+94	STH 47, RT	50
	112+43	-	121+00	STH 47, RT	400
	126+85	-	128+54	STH 47, RT	100
	128+78	-	130+71	STH 47, RT	150
	132+39	-	151+75	STH 47, RT	1,000
				STAGE 3 SUBTOTAL	3,260
4	155+50	-	163+38	STH 47, RT	450
				STAGE 4 SUBTOTAL	450
PROJECT 9650-17-70 TOTAL					**3,770**

REMOVING GUARDRAIL

STAGE	STATION	-	STATION	OFFSET	204.0165 REMOVING GUARDRAIL LF
1					
	154+13	-	154+27	LT	13
				STAGE 1 SUBTOTAL	13
6					
	209+00	-	212+14	LT	332
				STAGE 6 SUBTOTAL	332
	201+97	-	205+15	LT	322
	211+78	-	212+52	RT	74
	215+35	-	216+08	LT	73
	215+47	-	216+18	RT	71
				SUBTOTAL	540
PROJECT 9650-17-70 TOTAL					**885**

EXCAVATION, HAULING, AND DISPOSAL OF PETROLEUM CONTAMINATED SOIL

STAGE	STATION	-	STATION	LOCATION	205.0501.S TON	REMARKS
1						
	152+75	-	153+40	LT	460	EBS LOCATION
	153+54	-	153+95	RT	520	CULVERT REPLACEMENT
PROJECT 9650-17-70 TOTAL					**980**	

REMOVING INLETS

STAGE	PROJECT	STATION	LOCATION	204.0220 REMOVING INLETS EACH	COMMENTS
1	9650-17-70				
		10+41	23'LT	1	CTH VV LT
			STAGE 1 SUBTOTAL	1	
2	9650-17-61				
		215+40	18' LT	1	NW CORNER B-73-004
		215+61	18' RT	1	NE CORNER B-73-004
			STAGE 2 SUBTOTAL	2	
3	9650-17-70				
		146+91	48' LT	1	SW CORNER TRIBAL LOOP RD (NORTH)
			STAGE 3 SUBTOTAL	1	
4	9650-17-70				
		102+58	27' RT	1	SE CORNER WARRINGTON RD
		103+17	49' RT	1	NE CORNER WARRINGTON RD
		103+24	31' RT	1	NE CORNER WARRINGTON RD
		113+12	19' RT	1	STH 47 RT
		113+14	26' LT	1	STH 47 LT
		123+58	17' RT	1	STH 47 RT
		133+14	42' RT	1	STH 47 RT
		133+86	35' RT	1	STH 47 RT
		133+87	21' RT	1	STH 47 RT
		135+72	23' RT	1	STH 47 RT
			STAGE 4 SUBTOTAL	10	
PROJECT 9650-17-61 TOTAL				**2**	
PROJECT 9650-17-70 TOTAL				**12**	

REMOVING SURFACE DRAINS

STAGE	STATION	LOCATION	204.0190 REMOVING SURFACE DRAINS EACH	COMMENTS
2				
	215+40	17' LT	1	SW CORNER
	215+62	18' RT	1	NW CORNER
PROJECT 9650-17-61 TOTAL			**2**	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

3

DIVISION	FROM/TO STATION	LOCATION	COMMON EXCAVATION (1) (ITEM # 205.0100) CUT (2)	EBS EXCAVATION (3)	SALVAGED/ UNUSABLE PAVEMENT MATERIAL (4)	AVAILABLE MATERIAL (5)	Reduced EBS in Fill (6) Factor 0.80	Expanded Marsh Backfill (10) Factor 1.50	Expanded EBS Backfill (7) Factor 1.00	UNEXPANDED FILL	EXPANDED FILL (8) FACTOR 1.25	MASS ORDINATE +/- (9)	WASTE	BORROW (10) (ITEM #208.0100)	COMMENT
STH 47	Start to 155+50	Mainline Stage 1 & 3 (Left Side)	5582	1444	406	5176	1156	0	1444	6962	7258	-2081		2081	
	Start to 155+50	Mainline Stage 1 & 4 (Right Side)	4303	1444	406	3897	1156	0	1444	3261	2632	1265		0	
	155+50 to 198+00	Mainline Stage 1 & 5 (Right Side)	2482	407	233	2248	326	0	407	7517	8989	-6740		6740	
	198+00 to End	Mainline Stage 1 & 5 (Right Side)	1142	0	125	1017	0	0	0	1047	1309	-291		291	CAT. 0060
	155+50 to End	Mainline Stage 1 & 6 (Left Side)	3623	408	358	3265	326	0	408	2838	3140	125		0	
PROJECT TOTAL			17132	3704	1528	15604	2963	0	3704	21625	23328	-7724	0	9113	
TOTAL COMMON EXC =			20836												

3

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 Breaker Run material.
4) Salvaged/Unusable Pavement Material was assumed for an average of 3' of pavement in width approximately 6 inches in thickness to account for any material removed as part of the scabbing operation during each stage.
5) Available Material = Cut - Salvaged/Unusuable Pavement Material
6) Reduced EBS in Fill - Excavated EBS material is usuable in Fills outside the 1:1 slope. EBS in Fill Reduction factor = 0.8
7) Expanded EBS Backfill - This is to be filled with Breaker Run material. Item number 311.0110
8) Expanded Fill. Factor = 1.25
Depending on selections:

<u>Expanded Fill = (Unexpanded Fill - Rock* Rock Factor - Reduced Marsh - Reduced EBS) * Fill Factor</u>

Or Expanded Fill = (Unexpanded Fill - Rock* Rock Factor - Reduced EBS) * Fill Factor

Or Expanded Fill = (Unexpanded Fill - Rock* Rock Factor - Reduced Marsh) * Fill Factor

Or Expanded Fill = (Unexpanded Fill - Rock* Rock Factor) * Fill Factor

9) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.
10) Borrow Excavation item number 208.0100

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

3

PREPARE FOUNDATION FOR ASPHALTIC PAVING

PROJECT	211.0100 PREPARE FOUNDATION FOR ASPHALTIC PAVING 01. 9650-17-70 LS
9650-17-70	1
PROJECT 9650-17-70 TOTAL	**1**

FOR INFORMATION ONLY

LOCATIONS INCLUDE

STATION	-	STATION
82+45	-	146+00
157+63	-	212+12
215+66	-	221+50

PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS

STATION	-	STATION	LOCATION	211.0400 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS STA
197+76	-	207+68	LT	10
197+95	-	205+92	RT	8
210+36	-	212+12	RT	2
215+66	-	219+05	LT	3
215+66	-	219+56	RT	4
PROJECT 9650-17-70 TOTAL				**27**

FINISHING ROADWAY

PROJECT	213.0100 FINISHING ROADWAY EACH
9650-17-61	1
9650-17-70	1
PROJECT 9650-17-61 TOTAL	**1**
PROJECT 9650-17-70 TOTAL	**1**

3

BASE AGGREGATE DENSE

STAGE	STATION	-	STATION	LOCATION	305.0110 3/4-INCH TON	305.0120 1 1/4-INCH TON	624.0100 WATER MGAL	CATEGORY
1	151+75	-	155+50	STH 47/CTH VV	---	1,260	13	0010
1	151+75	-	155+50	SIDEWALK	---	140	1	0020
3	82+46	-	151+75	STH 47 LT	---	5,230	52	0010
3	82+46	-	151+75	SIDEWALK LT	---	1,250	13	0020
4	82+46	-	151+75	STH 47 RT	---	4,200	42	0010
4	82+46	-	151+75	SIDEWALK RT	---	1,190	12	0020
5	155+50	-	221+50	STH 47 RT	135	2,760	29	0010
5	155+50	-	198+00	SIDEWALK RT	---	780	8	0020
5	198+00	-	220+10	SIDEWALK RT	---	330	3	0060
6	155+50	-	221+50	STH 47 LT	760	2,500	33	0010
6	155+50	-	157+50	SIDEWALK LT	---	30	1	0020
	UNDISTRIBUTED			STH 47	75	1,010	13	0010
CATEGORY 0010 TOTALS					**970**	**16,960**	**182**	
CATEGORY 0020 TOTALS					**0**	**3,390**	**35**	
CATEGORY 0060 TOTALS					**0**	**330**	**3**	
PROJECT 9650-17-70 TOTAL					**970**	**20680**	**220**	

EXCAVATION BELOW SUBGRADE

STATION	-	STATION	LOCATION	311.0110 BREAKER RUN TON	645.0220 GEOGRID TYPE SR SY
UNDISTRIBUTED			STH 47	6,670	5,340
PROJECT 9650-17-70 TOTAL				**6,670**	**5,340**

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

CONCRETE (CATEGORY 0020)

STAGE	STATION	-	STATION	LOCATION	416.0160 DRIVEWAY 6-INCH SY	602.0405 SIDEWALK 4-INCH 5 FT SF	602.0405 SIDEWALK 4-INCH 6 FT SF	602.1500 CONCRETE STEPS SF
1								
	151+75	-	152+07	STH 47, RT	20	0	0	---
	152+07	-	152+79	STH 47, RT	0	370	0	---
	152+79	-	153+03	STH 47, RT	35	0	0	---
	153+03	-	153+92	STH 47, RT	0	500	0	---
	154+76	-	155+50	STH 47, RT	0	490	0	18
	151+75	-	152+34	STH 47, LT	0	300	0	---
	152+34	-	154+39	STH 47, LT	0	0	1,240	---
	154+39	-	155+50	STH 47, LT	0	450	0	---
	155+07	-	155+32	STH 47, LT	15	0	0	---
				STAGE 1 SUBTOTALS	70	2,110	1,240	18
3								
	82+45	-	83+05	STH 47, LT	0	310	0	---
	83+53	-	86+55	STH 47, LT	0	1,500	0	---
	86+55	-	86+66	STH 47, LT	20	0	0	---
	86+66	-	101+51	STH 47, LT	0	7,400	0	---
	101+51	-	101+72	STH 47, LT	30	0	0	---
	101+72	-	102+49	STH 47, LT	0	400	0	---
	102+90	-	108+63	STH 47, LT	0	3,200	0	---
	108+63	-	108+75	STH 47, LT	20	0	0	---
	108+75	-	112+25	STH 47, LT	0	1,750	0	---
	112+25	-	112+39	STH 47, LT	20	0	0	---
	112+39	-	114+12	STH 47, LT	0	870	0	---
	114+12	-	114+26	STH 47, LT	20	0	0	---
	114+26	-	117+20	STH 47, LT	0	1,500	0	---
	117+20	-	117+34	STH 47, LT	20	0	0	---
	117+34	-	120+22	STH 47, LT	0	1,550	0	---
	9+04	-	9+34	MORRIN STREET, LT	15	0	0	---
	120+93	-	126+33	STH 47, LT	0	2,700	0	---
	126+36	-	126+48	STH 47, LT	20	0	0	---
	126+48	-	127+82	STH 47, LT	0	690	0	---
	127+82	-	128+26	STH 47, LT	55	0	0	---
	128+26	-	129+27	STH 47, LT	0	520	0	---
	129+27	-	129+44	STH 47, LT	25	0	0	---
	129+44	-	137+72	STH 47, LT	0	1,100	0	---
	132+41	-	136+72	STH 47, LT	0	2,150	0	---
	136+72	-	139+95	STH 47, LT	0	0	2,000	---
	140+35	-	140+96	STH 47, LT	0	0	330	---
	140+96	-	142+05	STH 47, LT	0	550	0	---
	142+05	-	142+26	STH 47, LT	30	0	0	---
	142+26	-	143+55	STH 47, LT	0	650	0	---
	143+55	-	143+64	STH 47, LT	20	0	0	---
	143+64	-	145+37	STH 47, LT	45	715	0	19
	145+37	-	146+00	STH 47, LT	0	320	0	---
	146+00	-	146+79	STH 47, LT	0	420	0	---
	147+33	-	148+61	STH 47, LT	0	700	0	---
	148+61	-	148+82	STH 47, LT	30	0	0	---
	148+82	-	149+54	STH 47, LT	0	340	0	---

STAGE	STATION	-	STATION	LOCATION	416.0160 DRIVEWAY 6-INCH SY	602.0405 SIDEWALK 4-INCH 5 FT SF	602.0405 SIDEWALK 4-INCH 6 FT SF	602.1500 CONCRETE STEPS SF
3	149+54	-	149+67	STH 47, LT	20	0	0	---
	149+67	-	149+89	STH 47, LT	0	105	0	---
	149+89	-	150+00	STH 47, LT	20	0	0	---
	150+00	-	150+24	STH 47, LT	0	120	0	---
	150+24	-	150+46	STH 47, LT	30	0	0	---
	150+46	-	151+75	STH 47, LT	0	650	0	---
				STAGE 3 SUBTOTALS	440	30,210	2,330	19
4								
	82+45	-	84+62	STH 47, RT	0	1,150	0	---
	84+62	-	84+97	STH 47, RT	45	0	0	---
	84+97	-	87+67	STH 47, RT	0	1,400	0	---
	87+67	-	87+82	STH 47, RT	20	0	0	---
	87+82	-	91+31	STH 47, RT	0	1,750	0	---
	91+31	-	91+43	STH 47, RT	20	0	0	---
	91+43	-	92+15	STH 47, RT	0	360	0	---
	92+15	-	92+41	STH 47, RT	15	0	0	---
	92+41	-	94+95	STH 47, RT	0	1,300	0	---
	94+95	-	95+21	STH 47, RT	35	0	0	---
	95+21	-	96+76	STH 47, RT	0	780	0	---
	96+76	-	96+85	STH 47, RT	15	0	0	---
	96+85	-	102+58	STH 47, RT	45	2,950	0	---
	103+22	-	106+78	STH 47, RT	0	1,950	0	---
	106+78	-	107+14	STH 47, RT	45	0	0	---
	107+14	-	110+53	STH 47, RT	0	1,800	0	---
	110+53	-	110+86	STH 47, RT	45	0	0	---
	110+86	-	111+21	STH 47, RT	0	170	0	---
	111+21	-	111+44	STH 47, RT	30	0	0	---
	111+44	-	111+90	STH 47, RT	0	220	0	---
	112+51	-	114+79	STH 47, RT	0	1,150	0	---
	114+79	-	114+93	STH 47, RT	20	0	0	---
	114+93	-	116+20	STH 47, RT	0	640	0	---
	116+20	-	116+36	STH 47, RT	25	0	0	---
	116+36	-	116+71	STH 47, RT	0	180	0	---
	116+71	-	116+81	STH 47, RT	20	0	0	---
	116+81	-	117+75	STH 47, RT	0	470	0	---
	117+75	-	117+85	STH 47, RT	15	0	0	---
	117+85	-	118+96	STH 47, RT	0	560	0	---
	118+96	-	119+06	STH 47, RT	15	0	0	---
	119+06	-	121+00	STH 47, RT	0	1,000	0	---
	121+48	-	121+53	STH 47, RT, CROSSWALK	0	25	0	---
	125+60	-	125+65	STH 47, RT, CROSSWALK	0	30	0	---
	126+85	-	128+52	STH 47, RT	0	880	0	---
	128+52	-	128+75	STH 47, RT	30	0	0	---

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

CONCRETE (CATEGORY 0020)

STAGE	STATION	-	STATION	LOCATION	416.0160 DRIVEWAY 6-INCH SY	602.0405 SIDEWALK 4-INCH 5 FT SF	602.0405 SIDEWALK 4-INCH 6 FT SF	602.1500 CONCRETE STEPS SF	CATEGORY
4	128+75	-	129+76	STH 47, RT	0	500	0	---	
	130+23	-	131+83	STH 47, RT	0	950	0	---	
	132+20	-	136+72	STH 47, RT	0	2,550	0	---	
	136+72	-	140+96	STH 47, RT	0	0	2,550	---	
	140+96	-	144+48	STH 47, RT	0	1,800	0	---	
	144+48	-	144+72	STH 47, RT	35	0	0	---	
	144+72	-	146+00	STH 47, RT	0	680	0	---	
	146+00	-	151+56	STH 47, RT	0	2,900	0	---	
	151+56	-	151+75	STH 47, RT	25	0	0	---	
				STAGE 4 SUBTOTALS	500	28,145	2,550	0	
5									
	155+50	-	158+00	STH 47, RT	0	1,300	0	12	
	158+00	-	164+41	STH 47, RT	0	3,300	0	41	
	165+02	-	168+00	STH 47, RT	0	1,500	0	---	
	168+00	-	170+69	STH 47, RT	0	0	1,650	---	
	170+69	-	171+24	STH 47, RT	0	270	0	---	
	171+86	-	173+52	STH 47, RT	0	820	0	---	
	173+52	-	173+69	STH 47, RT	25	0	0	---	
	173+69	-	174+34	STH 47, RT	0	330	0	---	
	174+34	-	174+46	STH 47, RT	20	0	0	---	
	174+46	-	175+15	STH 47, RT	0	360	0	---	
	175+15	-	177+95	STH 47, RT	0	0	1,700	---	
	177+95	-	178+72	STH 47, RT	0	390	0	---	
	178+72	-	178+96	STH 47, RT	35	0	0	---	
	178+96	-	179+86	STH 47, RT	0	450	0	---	
	179+86	-	180+07	STH 47, RT	30	0	0	---	
5	180+07	-	180+48	STH 47, RT	0	210	0	---	
	180+48	-	180+61	STH 47, RT	20	0	0	---	
	180+61	-	181+23	STH 47, RT	0	320	0	---	
	181+23	-	181+41	STH 47, RT	25	0	0	---	
	181+41	-	186+43	STH 47, RT	0	2,550	0	---	
	186+43	-	186+69	STH 47, RT	35	0	0	---	
	186+69	-	192+06	STH 47, RT	0	2,700	0	---	
	192+06	-	195+32	STH 47, RT	0	0	2,000	---	
	195+32	-	198+00	STH 47, RT	0	1,450	0	---	
	198+00	-	204+84	STH 47, RT	0	3,450	0	---	0060
	204+84	-	205+08	STH 47, RT	15	0	0	---	0060
	205+08	-	208+57	STH 47, RT	0	1,750	0	---	0060
	209+40	-	212+53	STH 47, RT	0	1,550	0	---	0060
	215+65	-	220+10	STH 47, RT	0	2,200	0	---	0060
				STAGE 5 SUBTOTALS	205	24,900	5,350	53	
6									
	155+50	-	156+63	STH 47, LT	0	690	0	---	
	157+30	-	157+44	STH 47, LT	0	75	0	---	
				STAGE 6 SUBTOTALS	0	765	0	0	
CATEGORY 0020 TOTALS					**1,200**	**77,180**	**11,470**	**90**	
CATEGORY 0060 TOTALS					**15**	**8,950**	**0**	**0**	
PROJECT 9650-17-70 TOTAL					**1,215**	**86,130**	**11,470**	**90**	

CONCRETE SURFACE DRAINS

PROJECT	STRUCTURE	STATION	OFFSET	415.0410 CONCRETE PAVEMENT APPROACH SLAB SY	416.0610 DRILLED TIE BARS EACH	416.1010 CONCRETE SURFACE DRAINS CY	521.1012 APRON ENDWALLS FOR CULVERT PIPE STEEL 12-INCH EACH	611.0654 INLET COVERS TYPE V EACH	611.3220 INLETS 2X2-FT EACH	612.0212 PIPE UNDERDRAIN UNPERFORATED 12-INCH LF	628.7020 INLET PROTECTION TYPE D EACH	645.0120 GEOTEXTILE TYPE HR SY	650.4000 CONSTRUCTION STAKING STORM SEWER EACH
9650-17-61	B-73-0004												
		212+13 - 212+49		100	---	---	---	---	---	---	---	---	---
		215+26 - 215+61	LT	---	12	5	---	---	---	---	---	---	---
		215+56	LT	---	---	---	1	1	1	27	1	6	1
		215+45 - 215+61	RT	---	10	4	---	---	---	---	---	---	---
		215+66	RT	---	---	---	1	1	1	23	1	6	1
		215+36 - 215+61		77	---	---	---	---	---	---	---	---	---
PROJECT 9650-17-61 TOTALS				**177**	**22**	**9**	**2**	**2**	**2**	**50**	**2**	**12**	**2**

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

ASPHALT PAVEMENT ITEMS

STAGE	STATION	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON
1	151+95 RT	11
	152+91 RT	8
	153+20 LT	31
STAGE 1 SUBTOTAL		50
3	101+61 LT	6
	127+88 LT	5
	128+15 LT	6
	129+35 LT	2
	9+19D LT	3
STAGE 3 SUBTOTAL		22
4	92+28 RT	11
	95+08 RT	10
	99+30 RT	12
	106+96 RT	8
	110+70 RT	6
	111+32 RT	4
	128+64 RT	5
	144+60 RT	4
	146+26 RT	2
	147+53 RT	8
STAGE 4 SUBTOTAL		70
5	173+61 RT	4
	174+40 RT	4
	178+93 RT	10
	179+97 RT	9
	204+97 RT	4
STAGE 5 SUBTOTAL		31
6	163+35 LT	9
	164+11 LT	9
	190+35 LT	6
	192+45 LT	10
	194+41 LT	22
	9+25M RT	2
	9+04N LT	3
STAGE 6 SUBTOTAL		61
PROJECT 9650-17-70 TOTAL		**234**

3

ASPHALT PAVEMENT ITEMS

STAGE	STATION	-	STATION	LOCATION	450.4000 HMA COLD WEATHER PAVING TON	455.0605 TACK COAT GAL	460.5223 HMA PAVEMENT 3 LT 58-28 S (LOWER LAYER) TON	460.5244 HMA PAVEMENT 4 LT 58-34 S (UPPER LAYER) TON	465.0110 ASPHALTIC SURFACE PATCHING TON	465.0125 ASPHALTIC SURFACE TEMPORARY TON	REMARKS
1											
	151+75	-	155+50	STH 47	---	200	280	280	---	---	FULL DEPTH
	153+65	-	154+20		---	---	---	---	---	52	CAT. 0050
			STAGE 1 SUBTOTALS		0	200	280	280	0	52	
3											
	82+45	-	146+00		---	410	--	1200	690	---	SURFACE LAYER, 2.5-INCH
	146+00	-	151+75		---	140	200	200	--	---	FULL DEPTH REPLACEMENT
			STAGE 3 SUBTOTALS		0	550	200	1,400	690	0	
4											
	82+45	-	146+00		---	510	--	1480	550	---	SURFACE LAYER, 2.5-INCH
	146+00	-	151+75		---	110	160	160	--	---	FULL DEPTH REPLACEMENT
			STAGE 4 SUBTOTALS		0	620	160	1,640	550	0	
5											
	155+50	-	157+63		---	40	60	60	--	---	FULL DEPTH REPLACEMENT
	157+63	-	221+50		---	550	--	1710	370	---	SURFACE LAYER, 2.5-INCH
			STAGE 5 SUBTOTALS		0	590	60	1,770	370	0	
6											
	155+50	-	157+63		65	90	130	130	--	---	FULL DEPTH REPLACEMENT
	157+63	-	221+50		535	610	--	1770	370	---	SURFACE LAYER, 2.5-INCH
			STAGE 6 SUBTOTALS		600	700	130	1,900	370	0	
	UNDISTRIBUTED					---	---	---	20	---	
CATEGORY 0010 TOTALS					600	2,660	830	6,990	2,000	---	
CATEGORY 0050 TOTALS					---	---	---	---	---	52	
PROJECT 9650-17-70 TOTAL					**600**	**2,660**	**830**	**6,990**	**2,000**	**52**	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

CULVERT PIPES

STAGE	STATION	LOCATION	NUMBER OF CULVERTS	522.0124 CULVERT PIPE REINF CONC CLASS III 24-INCH LF	522.0136 CULVERT PIPE REINF CONC CLASS III 36-INCH LF	522.0418 CULVERT PIPE REINF CONC CLASS IV 18-INCH LF	522.0424 CULVERT PIPE REINF CONC CLASS IV 24-INCH LF	522.0430 CULVERT PIPE REINF CONC CLASS IV 30-INCH LF	522.1018 * APRON ENDWALLS FOR CULVERT PIPE RC 18-INCH EACH	522.1024 * APRON ENDWALL FOR CULVERT PIPE RC 24-INCH EACH	522.1030 * APRON ENDWALL FOR CULVERT PIPE RC 30-INCH EACH	522.1036 * APRON ENDWALL FOR CULVERT PIPE RC 36-INCH EACH	633.5200 MARKERS CULVERT END EACH	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH
3	139+66	STH 47, CROSS	1	---	---	---	---	78	---	---	2	---	2	1
4	132+10	STH 47, RT	1	---	---	---	50	---	---	2	---	---	2	1
5	175+95	STH 47, CROSS	1	122	---	---	---	---	---	2	---	---	2	1
5	178+83	STH 47, RT	1	---	---	46	---	---	2	---	---	---	---	---
5	179+96	STH 47, RT	1	---	---	46	---	---	2	---	---	---	---	1
5	180+54	STH 47, RT	1	---	---	26	---	---	2	---	---	---	---	1
5	181+33	STH 47, RT	1	---	---	26	---	---	2	---	---	---	---	1
5	189+78	STH 47, CROSS	1	118	---	---	---	---	---	2	---	---	2	1
5	200+35	STH 47, CROSS	1	---	112	---	---	---	---	---	---	2	2	1
PROJECT 9650-17-70 TOTAL				**240**	**112**	**144**	**50**	**78**	**8**	**6**	**2**	**2**	**10**	**8**

*** ADDITIONAL QUANTITIES SHOWN ELSEWHERE IN PLANS**

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

APRON ENDWALLS

STAGE	STRUCTURE NUMBER	STATION	OFFSET	LOCATION	522.1012 APRON ENDWALLS FOR CULVERT PIPE RC 12-IN EACH	522.1015 APRON ENDWALLS FOR CULVERT PIPE RC 15-IN EACH	522.1018 * APRON ENDWALLS FOR CULVERT PIPE RC 18-IN EACH	522.1024 * APRON ENDWALLS FOR CULVERT PIPE RC 24-IN EACH	522.1030 * APRON ENDWALLS FOR CULVERT PIPE RC 30-IN EACH	522.1036 * APRON ENDWALLS FOR CULVERT PIPE RC 36-IN EACH
1										
	AEW	154+07.51	29.7	LT	1	---	---	---	---	---
	AEW	154+38.69	31.3	LT	---	---	---	1	---	---
	STAGE 1 SUBTOTALS				1	0	0	1	0	0
3										
	AEW	82+45.00	40.6	LT	---	1	---	---	---	---
	AEW	94+17.69	52.2	LT	---	---	---	1	---	---
	AEW	96+42.60	49.2	LT	---	---	---	---	---	1
	AEW	113+11.58	47.0	LT	---	---	---	---	1	---
	AEW	125+50.16	55.8	LT	---	---	---	1	---	---
	AEW	136+49.97	43.0	LT	---	---	---	1	---	---
	AEW	151+50.46	46.6	LT	---	---	---	1	---	---
	STAGE 3 SUBTOTALS				0	1	0	4	1	1
4										
	AEW	113+07.00	39.5	RT	---	---	1	---	---	---
	AEW	139+14.35	49.4	RT	---	1	---	---	---	---
	AEW	139+65.55	38.6	RT	---	1	---	---	---	---
	STAGE 4 SUBTOTALS				0	2	1	0	0	0
5										
	AEW	170+77.06	38.0	RT	---	1	---	---	---	---
	AEW	175+63.57	43.7	RT	1	---	---	---	---	---
	AEW	177+99.77	47.9	RT	1	---	---	---	---	---
	AEW	198+84.66	60.9	RT	---	1	---	---	---	---
	STAGE 5 SUBTOTALS				2	2	0	0	0	0
6										
	AEW	163+15.77	44.4	LT	---	1	---	---	---	---
	AEW	167+70.22	25.4	LT	1	---	---	---	---	---
	AEW	185+25.00	44.0	LT	1	---	---	---	---	---
	AEW	188+78.98	36.8	LT	1	---	---	---	---	---
	AEW	191+09.00	41.5	LT	1	---	---	---	---	---
	AEW	195+57.00	39.3	LT	1	---	---	---	---	---
	STAGE 6 SUBTOTALS				5	1	0	0	0	0
PROJECT 9650-17-70 TOTAL					**8**	**6**	**1**	**5**	**1**	**1**

*** ADDITIONAL QUANTITIES SHOWN ELSEWHERE IN PLANS**

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

CONCRETE CURB & GUTTER

STAGE	STATION	-	STATION	LOCATION	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	SPV.0090.01 CONCRETE CURB & GUTTER 24-INCH TYPE D LF	650.5500 CONSTRUCTION STAKING CURB GUTTER & CURB & GUTTER LF
1							
	151+75	-	154+50	STH 47, RT	--	294	294
	154+50	-	155+50	STH 47, RT	--	105	105
				STAGE 1 SUBTOTALS	0	399	399
3							
	82+45	-	83+16	STH 47, LT	--	89	89
	83+45	-	102+63	STH 47, LT	--	1,979	1,979
	102+89	-	120+63	STH 47, LT	--	1,859	1,859
	120+88		131+81	STH 47, LT	--	1,198	1,198
	132+07	-	139+99	STH 47, LT	--	853	853
	140+29	-	146+82	STH 47, LT	--	708	708
	147+16	-	151+75	STH 47, LT	--	484	484
				STAGE 3 SUBTOTALS	0	7,170	7,170
4							
	82+45	-	102+70	STH 47, RT	--	2,041	2,041
	12+28	-	14+38	WARRINGTON RD, RT	--	209	209
	103+10	-	112+02	STH 47, RT	--	941	941
	12+37	-	14+38	WARRINGTON RD, LT	--	200	200
	112+34	-	120+90	STH 47, RT	--	874	874
	120+90	-	121+00	STH 47, RT	10	--	10
	121+46	-	121+55	STH 47, RT	--	9	9
	125+53	-	125+62	STH 47, RT	9	--	9
	126+85	-	126+95	STH 47, RT	10	--	10
	126+95	-	129+90	STH 47, RT	--	325	325
	130+17	-	130+71	STH 47, RT	--	77	77
	132+19	-	151+75	STH 47, RT	--	2,012	2,012
				STAGE 4 SUBTOTALS	29	6,688	6,717
5							
	155+50	-	164+39	STH 47, RT	--	940	940
	164+91	-	171+39	STH 47, RT	--	698	698
	171+72	-	197+95	STH 47, RT	--	2,644	2,644
		208+56		STH 47, RT	13	--	13
		209+40		STH 47, RT	13	--	13
				STAGE 5 SUBTOTALS	26	4,282	4,308
6							
	155+50	-	156+60	STH 47, LT	--	112	112
	8+91	-	9+68	FAIRGROUNDS RD, RT	--	82	82
	8+91	-	9+48	FAIRGROUNDS RD, LT	--	57	57
	157+11	-	157+69	STH 47, LT	--	71	71
				STAGE 6 SUBTOTALS	0	322	322
PROJECT 9650-17-70 TOTAL					**55**	**18,861**	**18,916**

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

CURB RAMPS

STAGE	STATION	LOCATION	602.0505 DET WARNING FIELD YELLOW SF	602.0605 DET WARNING FIELD YELLOW RADIAL SF	650.9000 CONSTRUCTION STAKING CURB RAMPS EACH	CATEGORY
1						
	154+03	RT	---	20.2	1	0020
	154+83	RT	---	18.4	1	0020
	STAGE 1 SUBTOTALS		0	38.6	2	
3						
	82+89	LT	10	---	1	0020
	83+01	LT	---	15.3	1	0020
	83+56	LT	---	16.3	1	0020
	102+23	LT	10	---	1	0020
	102+45	LT	---	17.4	1	0020
	103+11	LT	---	17.1	1	0020
	103+40	LT	10	---	1	0020
	120+07	LT	10	---	1	0020
	120+33	LT	---	17.4	1	0020
	120+96	LT	---	17.8	1	0020
	125+63	LT	10	---	1	0020
	126+88	LT	10	---	1	0020
	131+68	LT	---	17.7	1	0020
	132+46	LT	---	21.8	1	0020
	139+93	LT	10	---	1	0020
	140+42	LT	10	---	1	0020
	146+76	LT	---	15.2	1	0020
	147+50	LT	---	18.1	1	0020
	STAGE 3 SUBTOTALS		80	174.1	18	
4						
	82+89	RT	10	---	1	0020
	102+23	RT	10	---	1	0020
	102+55	RT	---	17.4	1	0020
	103+28	RT	---	19	1	0020
	103+40	RT	10	---	1	0020
	111+87	RT	---	17.4	1	0020
	112+60	RT	---	29.5	1	0020
	120+07	RT	10	---	1	0020
	125+63	RT	10	---	1	0020
	126+88	RT	10	---	1	0020
	129+72	RT	---	18.5	1	0020
	130+36	RT	---	18.1	1	0020
	131+79	RT	---	17.5	1	0020
	132+42	RT	---	18.1	1	0020
	STAGE 4 SUBTOTALS		60	155.5	14	

CURB RAMPS (CONT.)

STAGE	STATION	LOCATION	602.0505 DET WARNING FIELD YELLOW SF	602.0605 DET WARNING FIELD YELLOW RADIAL SF	650.9000 CONSTRUCTION STAKING CURB RAMPS EACH	CATEGORY
5						
	156+35	RT	10	---	1	0020
	164+38	RT	---	15.3	1	0020
	165+05	RT	---	17.3	1	0020
	171+21	RT	---	18.4	1	0020
	171+90	RT	---	18.4	1	0020
	208+50	RT	---	16.8	1	0060
	209+38	RT	---	15.8	1	0060
	220+10	RT	---	21.2	1	0060
	STAGE 5 SUBTOTALS		10	123.2	8	
6						
	156+35	LT	10	---	1	0020
	156+49	LT	---	19.4	1	0020
	157+34	LT	---	21.2	1	0020
	STAGE 6 SUBTOTALS		10	40.6	3	
CATEGORY 0020 TOTALS			160	478.2	42	**0020**
CATEGORY 0060 TOTALS			0	53.8	3	**0060**
PROJECT 9650-17-70 TOTAL			**160**	**532.0**	**45.0**	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

STORM SEWER STRUCTURES - INLET PROTECTION

STAGE	STRUCTURE NUMBER	STATION	OFFSET	LOCATION	611.3004 INLETS 4-FT EACH	611.3230 INLETS 2x3-FT EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	611.8120.S COVER PLATES TEMPORARY EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	INLET PROTECTION 628.7005 TYPE A EACH	INLET PROTECTION 628.7015 TYPE C EACH	650.4000 CONSTRUCTION STAKING STORM SEWER EACH
1													
	31.0	153+74.8	17.0	LT	---	1	---	1	---	---	1	1	1
	AEW	154+07.51	29.7	LT	---	---	---	---	---	---	---	---	1
	AEW	154+38.69	31.3	LT	---	---	---	---	---	---	---	---	1
	32.0	154+50.00	17.0	LT	---	---	---	1	---	1	1	1	1
	33.0	155+47.4	17.0	LT	---	---	---	1	---	1	1	1	1
	33.1	155+47.4	17.0	RT	---	1	---	1	---	---	1	1	1
	33.2	154+85.4	42.4	RT	---	---	1	1	---	---	1	---	1
		STAGE 1 SUBTOTALS			0	2	1	5	0	2	5	4	7
3													
	AEW	82+45.00	40.6	LT	---	---	---	1	---	---	---	---	1
	1.0	82+65.5	17.5	LT	1	---	---	1	---	---	1	1	1
	2.0	83+80.3	17.0	LT	---	1	---	1	---	---	1	1	1
	3.0	88+48.5	17.0	LT	---	1	---	1	---	---	1	1	1
	4.0	91+17.0	17.0	LT	1	---	---	1	---	---	1	1	1
	5.0	94+18.9	20.2	LT	---	---	---	1	---	1	1	1	1
	AEW	94+17.69	52.2	LT	---	---	---	---	---	---	---	---	1
	AEW	96+42.60	49.2	LT	---	---	---	---	---	---	---	---	1
	6.0	97+19.9	17.0	LT	---	---	---	1	---	1	1	1	1
	7.0	100+16.3	17.0	LT	---	---	---	1	---	1	1	1	1
	52.0	101+81.1	17.0	LT	---	---	---	1	---	1	1	1	1
	52.1	101+81.1	37.7	LT	---	---	1	1	---	---	1	---	1
	8.0	103+48.1	17.0	LT	---	---	---	1	---	1	1	1	1
	8.6	103+48.0	39.0	LT	---	---	1	1	---	---	1	---	1
	50.0	105+50.0	6.0	LT	---	---	---	1	---	1	---	---	1
	50.3	105+50.0	17.0	LT	---	1	---	1	---	---	1	1	1
	9.0	108+00.0	6.0	LT	---	---	---	1	1	---	---	---	1
	9.2	108+00.0	17.0	LT	---	1	---	1	---	---	1	1	1
	10.0	109+85.0	6.0	LT	---	---	---	1	1	---	---	---	1
	10.4	109+77.0	17.0	LT	---	1	---	1	---	---	1	1	1
	10.5	109+85.0	17.0	LT	---	1	---	1	---	---	1	1	1
	11.0	113+11.4	17.0	LT	---	1	---	1	---	---	1	1	1
	AEW	113+11.58	47.0	LT	---	---	---	---	---	---	---	---	1
	51.0	116+50.0	17.0	LT	---	1	---	1	---	---	1	1	1
	12.0	119+98.6	17.0	LT	---	1	---	1	---	---	1	1	1
	13.0	120+83.2	17.0	LT	---	---	---	1	1	---	1	1	1
	13.1	120+86.7	93.9	LT	---	1	---	1	---	---	1	1	1
	13.2	120+62.6	99.8	LT	---	1	---	1	---	---	1	1	1
	15.0	123+57.8	17.0	LT	1	---	---	1	---	---	1	1	1
	16.0	125+54.5	17.0	LT	---	---	---	1	---	1	1	1	1
	AEW	125+50.16	55.8	LT	---	---	---	---	---	---	---	---	1
	17.0	128+00.0	17.0	LT	---	1	---	1	---	---	1	1	1
	18.0	130+00.0	17.0	LT	1	---	---	1	---	---	1	1	1

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

STORM SEWER STRUCTURES - INLET PROTECTION (CONT.)

STAGE	STRUCTURE NUMBER	STATION	OFFSET	LOCATION	611.3004 INLETS 4-FT EACH	611.3230 INLETS 2x3-FT EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	611.8120.S COVER PLATES TEMPORARY EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	INLET PROTECTION 628.7005 TYPE A EACH	INLET PROTECTION 628.7015 TYPE C EACH	650.4000 CONSTRUCTION STAKING STORM SEWER EACH
3	19.0	131+41.2	17.0	LT	1	---	---	1	---	---	1	1	1
	20.0	131+85.1	19.0	LT	---	---	---	1	---	1	---	---	1
	20.1	131+84.4	47.6	LT	---	1	---	1	---	---	1	1	1
	20.2	131+85.5	55.5	LT	---	1	---	1	---	---	1	1	1
	21.0	132+79.7	17.0	LT	---	---	---	1	---	1	1	1	1
	47.0	133+75.0	17.0	LT	1	---	---	1	---	---	1	1	1
	22.0	135+20.0	17.0	LT	1	---	---	1	---	---	1	1	1
	22.1	135+28.0	17.0	LT	1	---	---	1	---	---	1	1	1
	23.0	136+50.0	8.0	LT	---	---	---	1	---	1	---	---	1
	AEW	136+49.97	43.0	LT	---	---	---	---	---	---	---	---	1
	25.1	140+79.8	17.0	LT	---	1	---	1	---	---	1	1	1
	26.0	146+56.2	17.0	LT	---	1	---	1	---	---	1	1	1
	27.0	146+90.00	20.3	LT	---	---	---	1	1	---	---	---	1
	27.1	146+85.30	55.5	LT	---	1	---	1	---	---	1	1	1
	27.2	146+82.60	61.0	LT	---	1	---	1	---	---	1	1	1
	27.3	147+25.00	63.1	LT	---	1	---	1	---	---	1	1	1
	28.0	147+78.40	17.0	LT	---	---	---	1	---	1	1	1	1
	29.0	149+45.70	17.0	LT	---	---	---	1	---	1	1	1	1
	30.0	151+50.00	17.0	LT	---	---	---	1	---	1	1	1	1
	AEW	151+50.46	46.6	LT	---	---	---	---	---	---	---	---	1
	STAGE 3 SUBTOTALS				8	19	2	47	4	13	40	38	53
4									---	---			
	1.1	82+65.50	17.7	RT	---	1	---	1	---	---	1	1	1
	3.1	88+48.50	17.0	RT	---	1	---	1	---	---	1	1	1
	4.1	91+17.00	17.0	RT	---	1	---	1	---	---	1	1	1
	5.1	94+20.50	17.0	RT	---	1	---	1	---	---	1	1	1
	5.2	94+14.50	17.0	RT	---	1	---	1	---	---	1	1	1
	6.1	97+19.70	17.0	RT	---	1	---	1	---	---	1	1	1
	6.2	97+19.70	44.0	RT	---	---	1	1	---	---	1	---	1
	7.1	100+16.30	17.0	RT	---	1	---	1	---	---	1	1	1
	8.1	103+48.10	18.0	RT	---	1	---	1	---	---	1	1	1
	8.4	103+38.00	42.8	RT	---	---	1	1	---	---	1	---	1
	8.2	103+10.10	62.5	RT	---	1	---	1	---	---	1	1	1
	8.5	103+10.50	70.5	RT	---	1	---	1	---	---	1	1	1
	8.3	102+71.00	58.1	RT	---	1	---	1	---	---	1	1	1
	50.1	105+50.00	17.0	RT	---	1	---	1	---	---	1	1	1
	50.2	105+58.00	17.0	RT	---	1	---	1	---	---	1	1	1
	9.1	108+00.00	17.0	RT	---	1	---	1	---	---	1	1	1
	10.3	109+77.00	17.0	RT	---	1	---	1	---	---	1	1	1
	10.1	109+85.00	17.0	RT	---	1	---	1	---	---	1	1	1
	10.2	109+93.00	17.0	RT	---	1	---	1	---	---	1	1	1
	11.4	111+92.90	50.3	RT	---	---	1	1	---	---	1	---	1
	11.3	112+00.50	41.6	RT	---	1	---	1	---	---	1	1	1

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

STORM SEWER STRUCTURES - INLET PROTECTION (CONT.)

STAGE	STRUCTURE NUMBER	STATION	OFFSET	LOCATION	611.3004 INLETS 4-FT EACH	611.3230 INLETS 2x3-FT EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	611.8120.S COVER PLATES TEMPORARY EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	INLET PROTECTION 628.7005 TYPE A EACH	INLET PROTECTION 628.7015 TYPE C EACH	650.4000 CONSTRUCTION STAKING STORM SEWER EACH
4	11.2	112+38.30	39.7	RT	1	---	---	1	---	---	1	1	1
	11.1	113+11.40	17.0	RT	1	---	---	1	---	---	1	1	1
	AEW	113+07.00	39.5	RT	---	---	---	---	---	---	---	---	1
	51.1	116+50.00	17.0	RT	---	1	---	1	---	---	1	1	1
	17.1	128+00.00	40.0	RT	---	---	1	1	---	---	1	---	1
	21.1	132+79.70	17.0	RT	---	1	---	1	---	---	1	1	1
	23.1	136+50.00	17.0	RT	---	1	---	1	---	---	1	1	1
	24.1	139+10.80	17.0	RT	---	1	---	1	---	---	1	1	1
	24.0	139+17.80	17.0	RT	---	1	---	1	---	---	1	1	1
	AEW	139+14.35	49.4	RT	---	---	---	---	---	---	---	---	1
	AEW	139+65.55	38.6	RT	---	---	---	---	---	---	---	---	1
	25.0	140+79.80	17.0	RT	---	1	---	1	---	---	1	1	1
	STAGE 4 SUBTOTALS				2	24	4	30	0	0	30	26	33
5													
	35.0	156+64.00	17.0	RT	---	1	---	1	---	---	1	1	1
	36.1	163+36.60	17.0	RT	---	1	---	1	---	---	1	1	1
	37.2	164+91.20	45.4	RT	---	---	1	1	---	---	1	1	1
	37.1	165+11.00	35.7	RT	---	---	1	1	---	---	1	---	1
	39.0	168+03.60	17.0	RT	---	1	---	1	---	---	1	1	1
	AEW	170+77.06	38.0	RT	---	---	---	---	---	---	---	---	1
	40.0	171+35.00	40.2	RT	---	1	---	1	---	---	1	1	1
	40.2	171+99.00	34.5	RT	---	---	1	1	---	---	1	---	1
	41.0	175+50.00	17.0	RT	---	1	---	1	---	---	1	1	1
	AEW	175+63.57	43.7	RT	---	---	---	---	---	---	---	---	1
	42.0	178+00.00	17.0	RT	---	1	---	1	---	---	1	1	1
	AEW	177+99.77	47.9	RT	---	---	---	---	---	---	---	---	1
	43.0	185+25.00	17.0	RT	---	1	---	1	---	---	1	1	1
	44.0	188+84.00	17.0	RT	---	1	---	1	---	---	1	1	1
	45.0	191+25.00	17.0	RT	---	1	---	1	---	---	1	1	1
	46.0	195+50.00	30.0	RT	---	1	---	1	---	---	1	1	1
	53.1	197+68.60	30.1	RT	---	1	---	1	---	---	1	1	1
	53.0	197+91.60	30.1	RT	---	1	---	1	---	---	1	1	1
	AEW	198+84.66	60.9	RT	---	---	---	---	---	---	---	---	1
	STAGE 5 SUBTOTALS				0	12	3	15	0	0	15	13	19
6													
	34.0	156+64.00	17.5	LT	---	---	---	1	---	1	---	---	1
	34.1	156+71.50	60.6	LT	---	1	---	1	---	---	1	1	1
	34.2	157+10.60	49.7	LT	---	1	---	1	---	---	1	1	1
	36.0	163+15.10	21.4	LT	---	---	---	1	---	1	---	---	1
	AEW	163+15.77	44.4	LT	---	---	---	---	---	---	---	---	1
	37.0	165+14.70	18.8	LT	---	---	---	1	1	---	---	---	1
	38.0	166+18.00	30.8	LT	---	---	1	1	---	---	1	---	1
	AEW	167+70.22	25.4	LT	---	---	---	---	---	---	---	---	1
	AEW	185+25.00	44.0	LT	---	---	---	---	---	---	---	---	1
	AEW	188+78.98	36.8	LT	---	---	---	---	---	---	---	---	1
	AEW	191+09.00	41.5	LT	---	---	---	---	---	---	---	---	1
	AEW	195+57.00	39.3	LT	---	---	---	---	---	---	---	---	1
	STAGE 6 SUBTOTALS				0	2	1	6	1	2	3	2	12
PROJECT 9650-17-70 TOTAL					**10**	**59**	**11**	**103**	**5**	**17**	**93**	**83**	**124**

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

STRUCTURE COVERS

STAGE	STRUCTURE NUMBER	STATION	OFFSET	LOCATION	611.0530 MANHOLE COVERS TYPE J EACH	611.0624 INLET COVERS TYPE H EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0645 INLET COVERS TYPE MS-A EACH	611.0654 INLET COVERS TYPE V EACH	RIM OR FLANGE LINE ELEVATION	STRUCTURE LOWEST INVERT ELEVATION	DEPTH
1												
	31.0	153+74.8	17.0	LT	---	---	1	---	---	824.93	821.20	2.64
	32.0	154+50.00	17.0	LT	---	---	1	---	---	824.55	819.20	4.18
	33.0	155+47.4	17.0	LT	---	---	1	---	---	824.20	819.64	3.39
	33.1	155+47.4	17.0	RT	---	---	1	---	---	824.20	820.36	2.71
	33.2	154+85.4	42.4	RT	---	---	---	1	---	823.62	820.65	2.76
		STAGE 1 SUBTOTALS			0	0	4	1	0			
3												
	1.0	82+65.5	17.5	LT	---	1	---	---	---	863.35	860.61	1.63
	2.0	83+80.3	17.0	LT	---	1	---	---	---	865.30	861.36	2.85
	3.0	88+48.5	17.0	LT	---	1	---	---	---	865.39	860.90	3.38
	4.0	91+17.0	17.0	LT	---	1	---	---	---	862.59	858.53	2.89
	5.0	94+18.9	20.2	LT	1	---	---	---	---	862.82	857.06	4.35
	6.0	97+19.9	17.0	LT	---	1	---	---	---	862.51	857.70	3.56
	7.0	100+16.3	17.0	LT	---	1	---	---	---	866.04	859.88	4.91
	52.0	101+81.1	17.0	LT	---	1	---	---	---	868.24	861.04	5.99
	52.1	101+81.1	37.7	LT	---	---	---	1	---	867.25	862.77	4.31
	8.0	103+48.1	17.0	LT	---	1	---	---	---	870.47	862.67	6.59
	8.6	103+48.0	39.0	LT	---	---	---	1	---	868.45	864.30	3.98
	50.0	105+50.0	6.0	LT	1	---	---	---	---	873.13	867.18	4.54
	50.3	105+50.0	17.0	LT	---	1	---	---	---	872.93	868.40	3.44
	9.0	108+00.0	6.0	LT	1	---	---	---	---	874.82	868.51	4.90
	9.2	108+00.0	17.0	LT	---	1	---	---	---	874.62	870.10	3.43
	10.0	109+85.0	6.0	LT	1	---	---	---	---	874.89	869.08	4.40
	10.4	109+77.0	17.0	LT	---	1	---	---	---	874.71	870.17	3.45
	10.5	109+85.0	17.0	LT	---	1	---	---	---	874.69	869.88	3.70
	11.0	113+11.4	17.0	LT	---	1	---	---	---	875.71	869.54	5.06
	51.0	116+50.0	17.0	LT	---	1	---	---	---	877.04	873.03	2.90
	12.0	119+98.6	17.0	LT	---	1	---	---	---	876.23	871.80	3.34
	13.0	120+83.2	17.0	LT	1	---	---	---	---	875.16	867.42	6.33
	13.1	120+86.7	93.9	LT	---	1	---	---	---	873.12	868.94	3.07
	13.2	120+62.6	99.8	LT	---	1	---	---	---	873.16	869.44	2.63
	15.0	123+57.8	17.0	LT	---	1	---	---	---	869.18	862.00	6.01
	16.0	125+54.5	17.0	LT	---	1	---	---	---	864.97	857.72	6.08
	17.0	128+00.0	17.0	LT	---	---	---	---	1	863.84	857.93	4.47
	18.0	130+00.0	17.0	LT	---	1	---	---	---	860.82	855.26	4.39

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

STRUCTURE COVERS (CONT.)

STAGE	STRUCTURE NUMBER	STATION	OFFSET	LOCATION	611.0530 MANHOLE COVERS TYPE J EACH	611.0624 INLET COVERS TYPE H EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0645 INLET COVERS TYPE MS-A EACH	611.0654 INLET COVERS TYPE V EACH	RIM OR FLANGE LINE ELEVATION	STRUCTURE LOWEST INVERT ELEVATION	DEPTH
3	19.0	131+41.2	17.0	LT	---	1	---	---	---	856.50	850.83	4.50
	20.0	131+85.1	19.0	LT	1	---	---	---	---	854.73	848.85	4.47
	20.1	131+84.4	47.6	LT	---	1	---	---	---	853.86	850.08	2.67
	20.2	131+85.5	55.5	LT	---	1	---	---	---	854.08	850.58	2.41
	21.0	132+79.7	17.0	LT	---	1	---	---	---	850.79	846.71	2.91
	47.0	133+75.0	17.0	LT	---	1	---	---	---	846.72	841.06	4.49
	22.0	135+20.0	17.0	LT	---	1	---	---	---	840.87	835.25	4.45
	22.1	135+28.0	17.0	LT	---	1	---	---	---	840.59	834.84	4.58
	23.0	136+50.0	8.0	LT	1	---	---	---	---	835.69	832.20	2.08
	AEW	136+49.97	43.0	LT	---	---	---	---	---	---	---	---
	25.1	140+79.8	17.0	LT	---	1	---	---	---	832.18	827.02	4.07
	26.0	146+56.2	17.0	LT	---	1	---	---	---	843.60	839.12	3.39
	27.0	146+90.00	20.3	LT	1	---	---	---	---	842.06	836.50	4.15
	27.1	146+85.30	55.5	LT	---	1	---	---	---	841.30	837.39	2.80
	27.2	146+82.60	61.0	LT	---	1	---	---	---	841.27	837.67	2.51
	27.3	147+25.00	63.1	LT	---	1	---	---	---	841.19	837.78	2.32
	28.0	147+78.40	17.0	LT	---	1	---	---	---	838.64	834.57	2.90
	29.0	149+45.70	17.0	LT	---	1	---	---	---	832.21	828.40	2.64
	30.0	151+50.00	17.0	LT	---	1	---	---	---	827.42	823.59	2.66
		STAGE 3 SUBTOTALS			8	35	0	2	1			
4												
	1.1	82+65.50	17.7	RT	---	1	---	---	---	863.35	860.90	1.36
	3.1	88+48.50	17.0	RT	---	1	---	---	---	865.39	861.42	2.88
	4.1	91+17.00	17.0	RT	---	1	---	---	---	862.51	859.70	1.72
	5.1	94+20.50	17.0	RT	---	---	1	---	---	860.92	858.03	1.78
	5.2	94+14.50	17.0	RT	---	---	1	---	---	860.92	858.32	1.51
	6.1	97+19.70	17.0	RT	---	1	---	---	---	862.50	859.51	1.86
	6.2	97+19.70	44.0	RT	---	---	---	1	---	863.00	860.08	2.73
	7.1	100+16.30	17.0	RT	---	1	---	---	---	866.04	862.08	2.87
	8.1	103+48.10	18.0	RT	---	1	---	---	---	870.43	863.31	5.95
	8.4	103+38.00	42.8	RT	---	---	---	1	---	868.85	863.51	5.09
	8.2	103+10.10	62.5	RT	---	1	---	---	---	869.23	864.69	3.45
	8.5	103+10.50	70.5	RT	---	1	---	---	---	869.35	864.79	3.47
	8.3	102+71.00	58.1	RT	---	1	---	---	---	869.32	864.99	3.24
	50.1	105+50.00	17.0	RT	---	1	---	---	---	872.93	868.17	3.65
	50.2	105+58.00	17.0	RT	---	1	---	---	---	873.00	868.50	3.41
	9.1	108+00.00	17.0	RT	---	1	---	---	---	874.62	870.10	3.43
	10.3	109+77.00	17.0	RT	---	1	---	---	---	874.71	870.26	3.36
	10.1	109+85.00	17.0	RT	---	1	---	---	---	874.68	870.21	3.38
	10.2	109+93.00	17.0	RT	---	1	---	---	---	874.72	870.26	3.37
	11.4	111+92.90	50.3	RT	---	---	---	1	---	873.37	871.84	1.36
	11.3	112+00.50	41.6	RT	---	1	---	---	---	874.81	871.67	2.05

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

STRUCTURE COVERS (CONT.)

STAGE	STRUCTURE NUMBER	STATION	OFFSET	LOCATION	611.0530 MANHOLE COVERS TYPE J EACH	611.0624 INLET COVERS TYPE H EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0645 INLET COVERS TYPE MS-A EACH	611.0654 INLET COVERS TYPE V EACH	RIM OR FLANGE LINE ELEVATION	STRUCTURE LOWEST INVERT ELEVATION	DEPTH
4	11.2	112+38.30	39.7	RT	---	1	---	---	---	874.73	871.19	2.43
	11.1	113+11.40	17.0	RT	---	1	---	---	---	875.71	869.71	4.79
	51.1	116+50.00	17.0	RT	---	1	---	---	---	877.04	873.58	2.37
	17.1	128+00.00	40.0	RT	---	---	---	1	---	862.85	858.46	4.22
	21.1	132+79.70	17.0	RT	---	1	---	---	---	852.04	848.32	2.63
	23.1	136+50.00	17.0	RT	---	1	---	---	---	835.69	832.50	2.02
	24.1	139+10.80	17.0	RT	---	---	1	---	---	829.95	827.28	1.58
	24.0	139+17.80	17.0	RT	---	1	---	---	---	829.95	826.98	1.86
	25.0	140+79.80	17.0	RT	---	1	---	---	---	832.02	826.56	4.35
		STAGE 4 SUBTOTALS			0	23	3	4	0			
5												
	35.0	156+64.00	17.0	RT	---	1	---	---	---	824.62	821.30	2.21
	36.1	163+36.60	17.0	RT	---	1	---	---	---	827.90	825.13	1.68
	37.2	164+91.20	45.4	RT	---	---	---	1	---	829.80	825.52	4.11
	37.1	165+11.00	35.7	RT	---	---	---	1	---	830.26	825.42	4.65
	39.0	168+03.60	17.0	RT	---	1	---	---	---	842.79	840.24	1.46
	40.0	171+35.00	40.2	RT	---	1	---	---	---	854.26	850.30	2.85
	40.2	171+99.00	34.5	RT	---	---	---	1	---	854.93	850.81	3.95
	41.0	175+50.00	17.0	RT	---	1	---	---	---	862.85	857.67	4.09
	42.0	178+00.00	17.0	RT	---	1	---	---	---	868.39	863.32	3.98
	43.0	185+25.00	17.0	RT	---	1	---	---	---	876.62	871.36	4.17
	44.0	188+84.00	17.0	RT	---	1	---	---	---	876.70	871.82	3.79
	45.0	191+25.00	17.0	RT	---	1	---	---	---	876.02	872.27	2.66
	46.0	195+50.00	30.0	RT	---	1	---	---	---	873.51	869.32	3.10
	53.1	197+68.60	30.1	RT	---	1	---	---	---	869.84	864.50	4.25
	53.0	197+91.60	30.1	RT	---	1	---	---	---	869.34	864.02	4.21
		STAGE 5 SUBTOTALS			0	12	0	3	0			
6												
	34.0	156+64.00	17.5	LT	1	---	---	---	---	824.61	820.11	3.09
	34.1	156+71.50	60.6	LT	---	1	---	---	---	824.30	821.02	2.17
	34.2	157+10.60	49.7	LT	---	1	---	---	---	823.76	821.30	1.37
	36.0	163+15.10	21.4	LT	1	---	---	---	---	827.62	824.52	1.75
	37.0	165+14.70	18.8	LT	1	---	---	---	---	831.13	826.30	3.48
	38.0	166+18.00	30.8	LT	---	---	---	1	---	832.17	827.52	4.48
		STAGE 6 SUBTOTALS			3	2	0	1	0			
PROJECT 9650-17-70 TOTAL					**11**	**72**	**7**	**11**	**1**			

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

STORM SEWER PIPE

					REINFORCED CONCRETE PIPE CLASS IV, STORM SEWER						
	FROM STRUCTURE	TO STRUCTURE			608.0412 12-INCH	608.0415 15-INCH	608.0418 18-INCH	608.0424 24-INCH	608.0430 30-INCH	608.0436 36-INCH	
STAGE	NUMBER	NUMBER	INVERT ELEVATION	DISCHARGE ELEVATION	LF	LF	LF	LF	LF	LF	COMMENTS
1											
	31.0	AEW	821.20	820.67	52	---	---	---	---	---	DISCHARGE EL @ END OF ENDWALL
	32.0	AEW	819.20	819.11	24	---	---	---	---	---	DISCHARGE EL @ END OF ENDWALL
	33.0	32.0	819.64	819.30	---	---	---	97	---	---	
	33.2	33.1	820.65	820.46	---	---	67	---	---	---	
	33.1	33.0	820.36	820.24	---	---	34	---	---	---	
				STAGE 1 SUBTOTALS	76	0	101	97	0	0	
3											
	1.0	AEW	860.61	860.50	---	---	---	---	---	---	DISCHARGE EL @ END OF ENDWALL
	1.1	1.0	860.90	860.61	18	---	---	---	---	---	17' TO ADD IN STAGE 4
	2.0	1.0	861.36	860.79	115	---	---	---	---	---	
	3.1	3.0	861.42	861.25	18	---	---	---	---	---	16' TO ADD IN STAGE 4
	3.0	4.0	860.90	859.53	---	269	---	---	---	---	
	4.1	4.0	859.70	858.53	18	---	---	---	---	---	16 ' TO ADD IN STAGE 4
	4.0	5.0	858.53	857.06	---	---	---	304	---	---	
	5.0	AEW	857.06	857.00	---	---	---	---	---	---	DISCHARGE EL @ END OF ENDWALL
	5.1	5.0	858.03	857.81	---	20	---	---	---	---	17' TO ADD IN STAGE 4
	6.0	AEW	857.70	857.35	---	---	---	---	---	75	
	6.1	6.0	859.51	859.30	---	---	18	---	---	---	16' TO ADD IN STAGE 4
	7.0	6.0	859.88	857.80	---	---	---	---	---	297	
	7.1	7.0	862.08	861.88	18	---	---	---	---	---	16' TO ADD IN STAGE 4
	52.0	7.0	861.04	859.98	---	---	---	---	165	---	
	52.1	52.0	862.77	862.64	21	---	---	---	---	---	
	8.0	52.0	862.67	861.14	---	---	---	---	167	---	
	8.6	8.0	864.30	864.17	22	---	---	---	---	---	
	8.1	8.0	863.31	863.17	---	---	---	19	---	---	16' TO ADD IN STAGE 4
	50.0	8.0	867.18	863.17	---	---	---	202	---	---	
	50.3	50.0	868.40	868.35	11	---	---	---	---	---	
	50.1	50.0	868.17	868.03	---	8	---	---	---	---	15' TO ADD IN STAGE 4
	9.0	50.0	868.51	867.28	---	---	---	250	---	---	
	9.1	9.0	870.10	869.99	8	---	---	---	---	---	15' TO ADD IN STAGE 4
	9.2	9.0	870.10	869.99	11	---	---	---	---	---	
	10.0	9.0	869.08	868.61	---	---	---	185	---	---	
	10.1	10.0	869.69	869.58	---	---	8	---	---	---	15' TO ADD IN STAGE 4
	10.4	10.5	870.17	870.13	8	---	---	---	---	---	
	10.5	10.0	869.88	869.83	---	11	---	---	---	---	
	11.1	11.0	869.71	869.62	---	---	---	---	18	---	16' TO ADD IN STAGE 4
	11.0	AEW	869.54	869.45	---	---	---	---	24	---	DISCHARGE EL @ END OF ENDWALL
	51.0	11.0	873.28	871.24	---	339	---	---	---	---	
	51.1	51.0	873.58	873.38	18	---	---	---	---	---	16' TO ADD IN STAGE 4
	12.0	13.0	871.80	870.72	85	---	---	---	---	---	
	13.2	13.1	869.44	869.19	25	---	---	---	---	---	
	13.1	13.0	868.94	868.17	---	77	---	---	---	---	
	13.0	15.0	867.42	863.50	---	---	---	275	---	---	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

STORM SEWER PIPE (CONT.)

STAGE	FROM STRUCTURE NUMBER	TO STRUCTURE NUMBER	INVERT ELEVATION	DISCHARGE ELEVATION	REINFORCED CONCRETE PIPE CLASS IV, STORM SEWER 608.0412 12-INCH LF	608.0415 15-INCH LF	608.0418 18-INCH LF	608.0424 24-INCH LF	608.0430 30-INCH LF	608.0436 36-INCH LF	COMMENTS
3					---	---	---	---	---	---	
	15.0	16.0	862.00	858.13	---	---	---	197	---	---	
	EXISTING	16.0	861.42	858.63	---	---	---	---	---	---	CONNECT EXISTING INTO 16.0
	16.0	AEW	857.72	856.50	---	---	---	33	---	---	DISCHARGE EL @ END OF ENDWALL
	17.1	17.0	858.46	858.18	18	---	---	---	---	---	39' TO ADD IN STAGE 4
	17.0	18.0	857.93	856.07	---	198	---	---	---	---	
	18.0	19.0	855.26	850.93	---	---	---	138	---	---	
	19.0	20.0	850.83	849.19	---	---	---	43	---	---	
	20.2	20.1	850.58	850.33	8	---	---	---	---	---	
	20.1	20.0	850.08	849.94	---	29	---	---	---	---	
	21.1	21.0	848.32	848.15	18	---	---	---	---	---	16' TO ADD IN STAGE 4
	21.0	47.0	846.71	843.00	---	---	---	93	---	---	
	47.0	22.0	841.06	835.35	---	---	---	145	---	---	
	22.0	22.1	835.25	835.04	---	---	---	8	---	---	
	22.1	23.0	834.84	832.20	---	---	---	123	---	---	
	23.0	AEW	832.20	831.50	---	---	---	29	---	---	DISCHARGE EL @ END OF ENDWALL
	23.1	23.0	832.60	832.50	8	---	---	---	---	---	17' TO ADD IN STAGE 4
	25.1	25.0	827.02	826.81	18	---	---	---	---	---	16' TO ADD IN STAGE 4
	26.0	27.0	839.12	837.50	33	---	---	---	---	---	
	27.0	28.0	836.50	834.67	---	---	---	84	---	---	
	27.3	27.1	837.78	837.64	35	---	---	---	---	---	
	27.2	27.1	837.67	837.64	6	---	---	---	---	---	
	27.1	27.0	837.39	837.25	---	35	---	---	---	---	
	28.0	29.0	834.57	828.50	---	---	---	158	---	---	
	29.0	30.0	828.40	823.69	---	---	---	204	---	---	
	30.0	AEW	823.59	823.50	---	---	---	24	---	---	DISCHARGE EL @ END OF ENDWALL
				STAGE 3 SUBTOTALS	540	986	26	2514	374	372	
4											
	1.1	1.0	860.90	860.61	17	---	---	---	---	---	
	3.1	3.0	861.42	861.25	16	---	---	---	---	---	
	4.1	4.0	859.70	859.53	16	---	---	---	---	---	
	5.2	5.1	858.32	858.28	6	---	---	---	---	---	
	5.1	5.0	858.03	857.81	---	17	---	---	---	---	
	6.2	6.1	860.08	859.76	---	27	---	---	---	---	
	6.1	6.0	859.51	859.30	---	---	16	---	---	---	
	7.1	7.0	862.08	861.88	16	---	---	---	---	---	
	8.3	8.2	864.99	864.79	39	---	---	---	---	---	
	8.5	8.2	864.84	864.79	8	---	---	---	---	---	
	8.2	8.4	864.69	864.51	34	---	---	---	---	---	
	8.4	8.1	863.51	863.41	---	---	---	27	---	---	
	8.1	8.0	863.31	863.17	---	---	---	16	---	---	
	50.2	50.1	868.50	868.42	8	---	---	---	---	---	
	50.1	50.0	868.17	868.03	---	15	---	---	---	---	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

STORM SEWER PIPE (CONT.)

					REINFORCED CONCRETE PIPE CLASS IV, STORM SEWER						
	FROM STRUCTURE	TO STRUCTURE			608.0412 12-INCH	608.0415 15-INCH	608.0418 18-INCH	608.0424 24-INCH	608.0430 30-INCH	608.0436 36-INCH	
STAGE	NUMBER	NUMBER	INVERT ELEVATION	DISCHARGE ELEVATION	LF	LF	LF	LF	LF	LF	COMMENTS
4					---	---	---	---	---	---	
	10.3	10.1	870.26	870.21	8	---	---	---	---	---	
	10.2	10.1	870.26	870.21	8	---	---	---	---	---	
	10.1	10.0	869.69	869.58	---	---	15	---	---	---	
	11.4	11.3	871.84	871.77	12	---	---	---	---	---	
	11.3	11.2	871.67	871.44	38	---	---	---	---	---	
	11.2	11.1	871.19	870.96	---	77	---	---	---	---	
	11.1	11.0	869.71	869.62	---	---	---	---	16	---	
	AEW	11.1	873.55	870.71	---	---	---	---	---	---	AEW INVERT EL @ END OF ENDWALL
	51.1	51.0	873.58	873.38	16	---	---	---	---	---	
	17.1	17.0	858.46	858.18	39	---	---	---	---	---	
	21.1	21.0	848.32	848.15	16	---	---	---	---	---	
	23.1	23.0	832.60	832.50	17	---	---	---	---	---	
	24.1	24.0	827.28	827.23	7	---	---	---	---	---	
	24.0	AEW	826.98	826.81	---	22	---	---	---	---	DISCHARGE EL @ END OF ENDWALL
	25.1	25.0	827.02	826.81	16	---	---	---	---	---	
	25.0	AEW	826.56	826.39	---	22	---	---	---	---	
				STAGE 4 SUBTOTALS	337	180	31	43	16	0	
5											
	35.0	34.0	821.30	821.14	---	19	---	---	---	---	16' TO ADD IN STAGE 6
	36.1	36.0	825.13	824.87	20	---	---	---	---	---	24' TO ADD IN STAGE 6
	37.2	37.1	825.52	825.42	23	---	---	---	---	---	
	37.1	37.0	825.42	825.23	---	38	---	---	---	---	17' TO ADD IN STAGE 6
	39.0	AEW	840.24	840.00	24	---	---	---	---	---	24' TO ADD IN STAGE 6
	40.2	40.1	850.81	850.69	26	---	---	---	---	---	
	40.1	40.0	850.44	850.30	---	40	---	---	---	---	
	40.0	AEW	850.30	850.12	---	58	---	---	---	---	DISCHARGE EL @ END OF ENDWALL
	41.0	AEW	857.67	857.49	24	---	---	---	---	---	DISCHARGE EL @ END OF ENDWALL
	42.0	AEW	863.32	861.40	25	---	---	---	---	---	
	43.0	AEW	871.36	871.00	18	---	---	---	---	---	37' TO ADD IN STAGE 6
	44.0	AEW	871.82	871.50	18	---	---	---	---	---	30' TO ADD IN STAGE 6
	45.0	AEW	872.27	872.03	20	---	---	---	---	---	27' TO ADD IN STAGE 6
	46.0	AEW	869.32	869.01	26	---	---	---	---	---	36' TO ADD IN STAGE 6
	53.1	53.0	864.50	864.27	23	---	---	---	---	---	
	53.0	AEW	864.02	862.00	---	92	---	---	---	---	
				STAGE 5 SUBTOTALS	247	247	0	0	0	0	
6											
	34.2	34.1	821.30	821.12	41	---	---	---	---	---	
	34.1	34.0	821.02	820.86	---	44	---	---	---	---	
	34.0	33.0	820.11	819.74	---	---	---	117	---	---	
	35.0	34.0	821.30	821.14	---	16	---	---	---	---	
	36.1	36.0	825.13	824.87	24	---	---	---	---	---	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

STORM SEWER PIPE (CONT.)

STAGE	FROM STRUCTURE NUMBER	TO STRUCTURE NUMBER	INVERT ELEVATION	DISCHARGE ELEVATION	REINFORCED CONCRETE PIPE CLASS IV, STORM SEWER 608.0412 12-INCH LF	608.0415 15-INCH LF	608.0418 18-INCH LF	608.0424 24-INCH LF	608.0430 30-INCH LF	608.0436 36-INCH LF	COMMENTS
6											
	37.0	36.0	826.30	824.62	---	198	---	---	---	---	
	38.0	37.0	827.52	826.70	103	---	---	---	---	---	
	37.1	37.0	825.42	825.23	---	17	---	---	---	---	
	39.0	AEW	840.24	840.00	24	---	---	---	---	---	DISCHARGE EL @ END OF ENDWALL
	43.0	AEW	871.36	871.00	37	---	---	---	---	---	DISCHARGE EL @ END OF ENDWALL
	44.0	AEW	871.82	871.50	30	---	---	---	---	---	DISCHARGE EL @ END OF ENDWALL
	45.0	AEW	872.27	872.03	27	---	---	---	---	---	DISCHARGE EL @ END OF ENDWALL
	46.0	AEW	869.32	869.01	36	---	---	---	---	---	DISCHARGE EL @ END OF ENDWALL
				STAGE 6 SUBTOTALS	257	215	0	0	0	0	
PROJECT 9650-17-70 TOTAL					**1,457**	**1,628**	**158**	**2,654**	**390**	**372**	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

SANITARY MANHOLES (CATEGORY 0040)

STAGE	STATION	LOCATION	611.0420 RECONSTRUCTING MANHOLES EACH	611.8110 ADJUSTING MANHOLE COVERS EACH	611.8120.S COVER PLATES TEMPORARY EACH	SPV.0060.05 SANITARY CHIMNEY SEALS EACH
1						
	154+03	LT	---	1	1	1
	154+76	LT	---	1	1	1
	STAGE 1 SUBTOTALS		0	2	2	2
3						
	83+45	LT	---	1	1	1
	109+48	LT	1	---	1	1
	112+09	LT	1	---	1	1
	113+48	LT	1	---	1	1
	117+48	LT	1	---	1	1
	121+51	LT	---	1	1	1
	125+44	LT	---	1	1	1
	126+20	LT	---	1	1	1
	127+89	LT	1	---	1	1
	130+36	LT	1	---	1	1
	132+37	LT	---	1	1	1
	132+93	LT	---	1	1	1
	135+78	LT	1	---	1	1
	139+98	LT	---	1	1	1
	140+32	LT	---	1	1	1
	147+05	LT	---	1	1	1
	149+10	LT	---	1	1	1
	151+07	LT	1	---	1	1
	152+90	LT	---	1	1	1
	STAGE 3 SUBTOTALS		8	11	19	19
4						
	83+38	RT	---	1	1	1
	87+37	RT	1	---	1	1
	91+12	RT	1	---	1	1
	103+16	RT	---	1	1	1
	STAGE 4 SUBTOTALS		2	2	4	4
5						
	171+43	RT	---	1	1	1
	179+88	RT	---	1	1	1
	182+84	RT	1	---	1	1
	186+40	RT	---	1	1	1
	STAGE 5 SUBTOTALS		1	3	4	4
6						
	161+53	LT	---	1	1	1
	165+12	LT	1	---	1	1
	179+97	LT	---	1	1	1
	STAGE 6 SUBTOTALS		1	2	3	3
PROJECT 9650-17-70 TOTALS			**12**	**20**	**32**	**32**

RIPRAP

STAGE	STATION	LOCATION	606.0200 RIPRAP MEDIUM CY	606.0300 RIPRAP HEAVY CY	645.012 GEOTEXTILE TYPE HR SY
3					
	82+41	STH 47, LT	3	---	5
	94+17	STH 47, LT	6	---	6
	96+29	STH 47, LT	10	---	10
	113+12	STH 47, LT	8	---	9
	125+49	STH 47, LT	8	---	7
	136+50	STH 47, LT	8	---	7
	139+68	STH 47, LT	8	---	9
	151+51	STH 47, LT	8	---	7
	UNDISTRIBUTED		3	---	5
	STAGE 3 SUBTOTALS		62	0	65
4					
	139+14	STH 47, RT	6	---	6
	140+80	STH 47, RT	6	---	6
	UNDISTRIBUTED		2	---	2
	STAGE 4 SUBTOTALS		12	0	11
5					
	170+74	STH 47, RT	6	---	6
	175+65	STH 47, RT	24	---	24
	176+23	STH 47, RT	24	---	26
	178+00	STH 47, RT	4	---	3
	190+37	STH 47, RT	6	---	6
	198+90	STH 47, RT	6	---	6
	UNDISTRIBUTED		5	---	3
	STAGE 5 SUBTOTALS		75	0	73
6					
	163+16	STH 47, LT	6	---	6
	167+68	STH 47, LT	6	---	5
	185+25	STH 47, LT	2	---	2
	188+79	STH 47, LT	14	---	15
	189+34	STH 47, LT	8	---	7
	191+08	STH 47, LT	6	---	5
	195+57	STH 47, LT	2	---	2
	200+36	STH 47, LT	14	---	15
	209+41 - 212+32	STH 47, LT	---	488	---
	UNDISTRIBUTED		7	28	7
	STAGE 6 SUBTOTALS		65	516	63
PROJECT 9650-17-70 TOTALS			**213**	**516**	**212**

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

INSULATION BOARD (CATEGORY 0040)

STAGE	BEGIN STATION		END STATION	LOCATION	(CAT 0040) 612.0902.S INSULATION BOARD POLYSTYRENE 2-INCH SY
1					
	154+08	-	154+38	STH 47, LT	13.4
	154+69	-	154+75	STH 47, LT	3.6
				STAGE 1 SUBTOTAL	17.0
3					
	82+73	-	82+78	STH 47, LT	3.6
	103+20	-	103+25	STH 47, LT	4.9
	103+26	-	103+33	STH 47, LT	3.6
	113+07	-	113+15	STH 47, LT	3.6
	120+37	-	120+41	STH 47, LT	3.6
	120+80	-	120+88	STH 47, LT	3.6
	125+50	-	125+58	STH 47, LT	3.6
	131+81	-	131+89	STH 47, LT	3.6
	132+01	-	132+09	STH 47, LT	3.6
	135+79	-	135+84	STH 47, LT	3.6
	136+45	-	136+54	STH 47, LT	7.1
	139+63	-	139+70	STH 47, LT	3.6
	9+37	-	9+45	TRIBAL OFFICE LOOP RD N, RT	3.6
	9+37	-	3+45	TRIBAL OFFICE LOOP RD N, LT	3.6
	146+97	-	147+04	STH 47, LT	3.6
	147+18	-	147+22	STH 47, LT	3.6
	147+42	-	147+51	STH 47, LT	3.6
	147+42	-	148+59	STH 47, LT	7.1
	149+07	-	149+12	STH 47, LT	3.6
	149+24	-	149+33	STH 47, LT	3.6
	151+46	-	151+54	STH 47, LT	3.6
				STAGE 3 SUBTOTAL	83.1
4					
	97+16	-	97+24	STH 47, RT	3.6
	103+12	-	103+18	STH 47, RT	7.1
	103+24	-	103+49	STH 47, RT	8.9
	107+60	-	109+75	STH 47, RT	95.2
	112+06	-	112+09	STH 47, RT	3.6
	112+97	-	113+15	STH 47, RT	7.1
	116+46	-	116+54	STH 47, RT	3.6
	123+54	-	123+62	STH 47, RT	3.6
	125+52	-	125+60	STH 47, RT	3.6
	127+96	-	128+04	STH 47, RT	3.6
	139+12	-	139+20	STH 47, RT	3.6
	139+61	-	139+70	STH 47, RT	3.6
	140+76	-	140+84	STH 47, RT	3.6
				STAGE 4 SUBTOTAL	150.3

INSULATION BOARD (CATEGORY 0040)

STAGE	BEGIN STATION		END STATION	LOCATION	612.0902.S INSULATION BOARD POLYSTYRENE 2-INCH SY
5		-			
	165+08	-	165+16	STH 47, RT	3.6
	171+39	-	171+45	STH 47, RT	3.6
	171+52	-	171+55	STH 47, RT	3.6
				STAGE 5 SUBTOTAL	10.7
6					
	156+70	-	156+62	STH 47, LT	3.6
	163+11	-	163+19	STH 47, LT	3.6
	185+21	-	185+29	STH 47, LT	3.6
	188+76	-	188+84	STH 47, LT	3.6
	189+48	-	189+56	STH 47, LT	3.6
	191+10	-	191+18	STH 47, LT	3.6
	195+51	-	195+59	STH 47, LT	3.6
				STAGE 6 SUBTOTAL	24.9
PROJECT 9650-17-70 TOTALS					**286**

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

GUARDRAIL

STATION	-	STATION	OFFSET	614.0200 STEEL THRIE BEAM STRUCTURE APPROACH LF	614.0305 STEEL PLATE CLASS A LF	614.2300 MGS GUARDRAIL 3 LF	614.2500 MGS THRIE BEAM TRANSITION LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH	SPV.0060.17 MGS GUARDRAIL TERMINAL EAT EACH	COMMENTS
201+34	-	206+03	LT	---	---	367.2	---	2	---	
208+97	-	212+16	LT	20.65	310	---	---	---	1	CONNECTS TO EXISTING BEAM GURAD AND BRIDGE PARAPET
210+84	-	212+52	RT	---	---	78.1	39.4	1	---	CONNECTS TO BRIDGE PARAPET
215+35	-	217+02	LT	---	---	75.0	39.4	1	---	CONNECTS TO BRIDGE PARAPET
215+45	-	216+75	RT	---	---	37.2	39.4	1	---	CONNECTS TO BRIDGE PARAPET
PROJECT 9650-17-70 TOTALS				**20.65**	**310**	**558**	**118.2**	**5**	**1**	

MAINTENANCE AND REPAIR OF HAUL ROADS

PROJECT	618.0100 MAINTENANCE AND REPAIR OF HAUL ROADS EACH
9650-17-70	1
PROJECT 9650-17-70 TOTAL	1

MOBILIZATION

PROJECT	619.1000 MOBILIZATION EACH
9650-17-61	0.1
9650-17-70	0.9
PROJECT 9650-17-61 TOTAL	0.1
PROJECT 9650-17-70 TOTAL	0.9

EROSION CONTROL MOBILIZATION

PROJECT	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATION EMERGENCY EROSION CONTROL EACH
9650-17-61	1	1
9650-17-70	12	12
UNDISTRIBUTED	2	2
PROJECT 9650-17-61 TOTAL	**1**	**1**
PROJECT 9650-17-70 TOTAL	**14**	**14**

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

LANDSCAPING

STAGE	STATION	- STATION	LOCATION	625.0100 TOPSOIL SY	627.0200 MULCHING SY	628.2002 EROSION MAT CLASS I TYPE A SY	628.2006 EROSION MAT URBAN CLASS I TYPE A SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB	630.0130 SEEDING MIXTURE NO. 30 LB	630.0140 SEEDING MIXTURE NO. 40 LB	630.0500 SEED WATER MGAL	SPV.0180.01 PREP TOPSOIL FOR LAWN TYPE TURF SY	CATEGORY
1														
	152+07	153+98	STH 47, RT	100	0	0	100	0	0	2	0	0	0	0010
	152+07	154+28	STH 47, RT	310	0	310	0	0	0	0	6	1	310	0010
	153+03	154+06	STH 47, RT	110	0	110	0	0	0	0	2	0	110	0010
	10+37	11+34	CTH VV (S), RT	140	0	0	140	0	0	2	0	0	0	0010
	10+28	11+34	CTH VV (S), LT	50	0	0	50	0	0	1	0	0	0	0010
	154+76	155+50	STH 47, RT	60	0	60	0	0	0	0	1	0	60	0010
	154+87	155+50	STH 47, RT	40	0	0	40	0	0	1	0	0	0	0010
	151+75	152+37	STH 47, LT	90	0	70	30	0	0	0	1	0	70	0010
	154+38	155+08	STH 47, LT	100	0	80	30	0	0	0	1	0	80	0010
	155+32	155+50	STH 47, LT	30	0	20	10	0	0	0	0	0	20	0010
	UNDISTRIBUTED			206	0	130	80	0	0	1	2	1	0	0010
			STAGE 1 SUBTOTALS	1,236	0	780	480	1	0	8	14	3	650	
3														
	82+45	83+20	STH 47, LT	130	0	110	30	0	0	0	2	0	110	0010
	83+43	102+41	STH 47, LT	3,920	0	2,810	1,120	2	0	20	50	10	2,810	0010
	10+98	11+44	WARRINGTON RD, RT	50	0	0	50	0	0	1	0	0	0	0010
	10+98	11+49	WARRINGTON RD, LT	80	0	40	40	0	0	1	1	0	40	0010
	102+87	114+11	STH 47, LT	2,250	0	1,610	640	1	0	11	29	6	1,610	0010
	114+28	120+62	STH 47, LT	920	0	570	350	1	0	6	10	2	570	0010
	120+80	131+84	STH 47, LT	1,710	0	1,130	580	1	0	10	20	4	1,130	0010
	132+07	136+72	STH 47, LT	240	0	0	240	0	0	4	0	1	0	0010
	132+07	140+00	STH 47, LT	1,410	0	1,410	0	1	0	0	25	4	1,410	0010
	140+23	146+86	STH 47, LT	810	0	530	280	1	0	5	10	2	530	0010
	147+16	152+37	STH 47, LT	760	0	560	200	0	0	4	10	2	560	0010
	UNDISTRIBUTED			2,456	0	1,754	706	2	0	13	31	6	0	0010
			STAGE 3 SUBTOTALS	14,736	0	10,524	4,236	9	0	75	188	37	8,770	
4														
	82+45	102+62	STH 47, RT	5,040	0	3,920	1,130	3	0	20	70	13	3,920	0010
	12+15	14+38	WARRINGTON RD, RT	80	0	0	80	0	0	1	0	0	0	0010
	12+06	14+38	WARRINGTON RD, LT	140	0	0	140	0	0	2	0	0	0	0010
	103+27	112+03	STH 47, RT	1,360	0	920	450	1	0	8	16	3	920	0010
	112+27	121+00	STH 47, RT	990	0	570	430	1	0	8	10	2	570	0010
	126+85	129+89	STH 47, RT	440	0	280	160	0	0	3	5	1	280	0010
	130+18	131+76	STH 47, RT	210	0	120	100	0	0	2	2	1	120	0010
	132+20	151+83	STH 47, RT	2,970	0	2,100	870	2	0	16	38	7	2,100	0010
	UNDISTRIBUTED			2,246	0	1,582	672	1	0	12	28	6	0	0010
			STAGE 4 SUBTOTALS	13,476	0	9,492	4,032	8	0	71	170	34	7,910	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

LANDSCAPING (CONT.)

STAGE	STATION	- STATION	LOCATION	625.0100 TOPSOIL SY	627.0200 MULCHING SY	628.2002 EROSION MAT CLASS I TYPE A SY	628.2006 EROSION MAT URBAN CLASS I TYPE A SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB	630.0130 SEEDING MIXTURE NO. 30 LB	630.0140 SEEDING MIXTURE NO. 40 LB	630.0500 SEED WATER MGAL	SPV.0180.01 PREP TOPSOIL FOR LAWN TYPE TURF SY	CATEGORY
5														
	155+50	164+48	STH 47, RT	1,110	0	0	1,110	1	0	10	20	3	570	0010
	165+09	171+17	STH 47, RT	1,010	690	840	180	1	9	3	18	3	840	0010
	171+93	175+15	STH 47, RT	160	358	0	160	0	6	3	3	0	0	0010
	174+75	198+00	STH 47, RT	2,790	0	2,790	0	2	0	0	50	7	2,790	0010
	175+95	198+00	STH 47, RT	890	0	0	890	1	0	16	16	2	0	0010
	198+00	202+14	STH 47, RT	850	0	850	0	1	0	0	15	2	850	0010
	198+00	212+52	STH 47, RT	870	0	870	0	1	0	0	16	2	870	0060
	216+26	220+02	STH 47, RT	350	0	350	0	0	0	0	6	1	350	0060
	UNDISTRIBUTED			1,606	210	1,140	468	1	3	6	29	4	0	0010
			STAGE 5 SUBTOTALS	9,636	1,258	6,840	2,808	6	19	38	172	24	6,270	
6														
	155+50	156+71	STH 47, LT	190	0	110	80	0	0	1	2	0	110	0010
	157+10	157+75	STH 47, LT	80	0	0	80	0	0	1	0	0	0	0010
	162+88	163+38	STH 47, LT	250	0	250	0	0	0	0	4	1	250	0010
	168+78	171+94	STH 47, LT	560	352	560	0	0	6	0	10	1	560	0010
	175+12	191+36	STH 47, LT	1,830	1,805	1,830	0	1	32	0	33	5	1,830	0010
	195+62	202+14	STH 47, LT	1,220	725	1,220	0	1	13	0	22	3	1,220	0010
	203+44	208+32	STH 47, LT	230	543	230	0	0	10	0	4	1	230	0060
	215+23	217+38	STH 47, LT	120	239	120	0	0	4	0	2	0	120	0060
	UNDISTRIBUTED			896	733	860	68	1	13	1	16	6	0	0010
			STAGE 6 SUBTOTALS	5,376	4,397	5,180	228	3	79	3	94	17	4,320	
CATEGORY 0010 TOTALS				42,890	4,872	31,246	11,784	27	84	196	610	111	26,350	**0010**
CATEGORY 0060 TOTALS				1,570	782	1,570	0	1	14	0	28	4	1,570	**0060**
PROJECT 9650-17-70 TOTAL				**44,460**	**5,654**	**32,816**	**11,784**	**28**	**98**	**196**	**638**	**115**	**27,920**	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

EROSION CONTROL

STAGE	STATION	-	STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.7555 CULVERT PIPE CHECKS EACH	CATEGORY
3								
	87+21	-	93+02	LT	586	147	---	0010
	113+21	-	114+11	LT	108	27	---	0010
	14+28	-	117+20	LT	309	77	---	0010
	117+34	-	119+02	LT	172	43	---	0010
	122+34	-	125+44	LT	320	80	---	0010
	125+54	-	126+37	LT	93	23	---	0010
	126+49	-	127+03	LT	55	14	---	0010
	135+37	-	138+50	LT	203	51	---	0010
	140+42	-	140+88	LT	66	17	---	0010
	UNDISTRIBUTED				191	48	3	0010
			STAGE 3 SUBTOTALS		2,103	526	3	
4								
	82+45	-	84+61	RT	225	56	---	0010
		113+07		RT	---	---	2	0010
		131+76		RT	---	---	3	0010
	135+50	-	141+50	RT	626	157	---	0010
		139+65		RT	---	---	5	0010
	143+25	-	144+25	RT	101	25	---	0010
			STAGE 4 SUBTOTALS		952	238	10	
5								
	174+75	-	178+25	RT	410	103	---	0010
		179+11		RT	---	---	2	0010
		180+25		RT	---	---	2	0010
		180+72		RT	---	---	2	0010
		181+52		RT	---	---	2	0010
		190+27		RT	---	---	3	0010
		200+38		RT	---	---	7	0010
	209+38	-	212+62	RT	365	91	---	0060
	215+45	-	220+15	RT	500	125	---	0060
			STAGE 5 SUBTOTALS		1,275	319	18	
6								
	157+24	-	163+08	LT	606	152	---	0010
	164+37	-	166+11	LT	192	48	---	0010
	170+25	-	171+26	LT	112	28	---	0010
		175+74		LT	---	---	3	0010
	175+79	-	177+00	LT	123	31	---	0010
	182+25	-	192+20	LT	1,072	268	---	0010
	194+66	-	196+52	LT	219	55	---	0010
	197+26	-	205+00	LT	822	206	---	0010

STAGE	STATION	-	STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.7555 CULVERT PIPE CHECKS EACH	CATEGORY
6	205+00	-	208+00	LT	320	80	---	0060
	215+23	-	219+79	LT	492	123	---	0060
			STAGE 6 SUBTOTALS		4,586	1,618	632	
CATEGORY 0010 TOTALS					7,239	2,281	663	**0010**
CATEGORY 0060 TOTALS					1,677	419	---	**0060**
PROJECT 9650-17-70 TOTAL					**8,916**	**2,700**	**663**	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

PERMANENT SIGNING

STAGE	STATION	OFFSET	SIGN NO.	SIGN CODE	SIGN SIZE IN x IN	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	REMARKS
1	153+68	RT	3-23	M1-5A	---	---	---	---	1	---	CTH VV MOUNTED ON SAME POLE AS M6-6
	153+68	RT	3-23	M6-6	---	---	---	---	1	---	STRAIGHT/RIGHT ARROW ON SAME POLE AS M1-5A
	154+55	LT	3-24	M50-3	---	---	---	---	1	---	STH 47, STH 55, CTH VV MOUNTED ON SAME POLE AS M50-3A
	154+55	LT	3-24	M50-3A	---	---	---	---	1	---	M6-4, M6-4, M6-1 ARROWS MOUNTED ON SAME POLE AS M50-3
	154+76	LT	3-25	M1-5A	---	---	---	---	1	---	CTH VV MOUNTED ON SAME POLE AS M6-1
	154+76	LT	3-25	M6-1	---	---	---	---	1	---	LEFT ARROW MOUNTED ON SAME POLE AS M1-5A
	154+80	RT	3-25	R1-1	---	---	---	---	1	---	STOP SIGN
			STAGE 1 SUBTOTALS			0	0.00	0.00	7	0	
3	83+04	LT	1-1	R1-1	---	---	---	---	1	---	STOP SIGN
	84+46	LT	1-2	W11-2	---	---	---	---	1	---	PEDESTRIAN CROSSING
	87+39	LT	1-3	R2-1	---	---	---	---	1	---	SPEED LIMIT 35 MPH
	101+46	LT	1-6	R1-1	---	---	---	---	1	---	STOP SIGN
	103+45	LT	1-9	W11-2	30"X30"	---	---	6.25	---	---	PEDESTRIAN CROSSING, MOUNTED ON SAME POST AS W16-7L AND R10-25
	103+45	LT	1-9	W11-2	30"X30"	---	---	6.25	---	---	PEDESTRIAN CROSSING, MOUNTED ON SAME POST AS W16-7R AND R10-25
	103+45	LT	1-9	W16-7L	24"X12"	---	---	2.00	---	---	DIAGONAL ARROW, MOUNTED ON SAME POST AS W11-2 AND R10-25
	103+45	LT	1-9	W16-7R	24"X12"	---	---	2.00	---	---	DIAGONAL ARROW, MOUNTED ON SAME POST AS W11-2 AND R10-25
	103+45	LT	1-9	R10-25	9"X12"	---	0.75	---	---	---	PUSH BUTTON TO TURN ON WARNING LIGHTS MOUNTED ON SAME POLE AS W11-2 AND W16-7R
	103+45	LT	1-9	R10-25	9"X12"	---	0.75	---	---	---	PUSH BUTTON TO TURN ON WARNING LIGHTS MOUNTED ON SAME POLE AS W11-2 AND W16-7R
	103+45	LT	1-10	S1-1	---	---	---	---	1	---	PEDESTRIAN CROSSING, MOUNTED ON SAME POST AS W16-7L
	103+45	LT	1-10	W16-7L	---	---	---	---	1	---	DIAGONAL ARROW, MOUNTED ON SAME POST AS S1-1
	107+22	LT	1-13		---	---	---	---	1	---	DEER CROSSING MOUNTED ON SAME POLE AS NEXT MILE
	112+19	LT	2-3	W1-7	---	---	---	---	1	---	TWO DIRECTIONAL LARGE ARROW
	114+90	LT	2-6	W14-3	---	---	---	---	1	---	NO PASSING ZONE
	117+51	LT	2-7	S4-51	---	---	---	---	1	---	SPEED LIMIT 15 MPH WHEN CHILDREN ARE PRESENT MOUNTED ON SAME POLE AS S16-9P
	117+51	LT	2-7	S16-9P	---	---	---	---	1	---	AHEAD MOUNTED ON SAME POLEA AS S4-51
	120+12	LT	2-8	S1-1	---	---	---	---	1	---	PEDESTRIAN CROSSING, MOUNTED ON SAME POST AS W16-7L
	120+12	LT	2-8	W16-7L	---	---	---	---	1	---	DIAGONAL ARROW, MOUNTED ON SAME POST AS S1-1
	120+12	LT	2-8		---	---	---	---	1	---	DRUG FREE SCHOOL ZONE MOUNTED ON SAME POLE AS S1-1 AND W16-7L
	120+35	LT	2-10	R1-1	---	---	---	---	1	---	STOP SIGN
	124+31	LT	2-12	S1-1	---	---	---	---	1	---	PEDESTRIAN CROSSING, MOUNTED ON SAME POST AS W16-9P
	124+31	LT	2-12	W16-9P	---	---	---	---	1	---	AHEAD MOUNTED ON SAME POLEA AS S1-1
	126+20	LT	2-14	W1-7	---	---	---	---	1	---	TWO DIRECTIONAL LARGE ARROW
	130+82	LT	2-19	R2-1	---	---	---	---	1	---	SPEED LIMIT 35 MPH
	131+78	LT	2-21	R1-1	---	---	---	---	1	---	STOP SIGN
	133+71	LT	2-24	W11-2	---	---	---	---	---	1	PEDESTRIAN CROSSING
	134+80	LT	3-1	D1-52	---	---	---	---	1	---	DRIVERS LICENSING
	136+31	LT	3-2	W11-2	---	---	---	---	---	1	PEDESTRIAN CROSSING
	138+02	LT	3-4	W11-8	---	---	---	---	1	---	FIRETRUCK CROSSING
	139+85	LT	3-5	R6-1R	---	---	---	---	1	---	ONE WAY ARROW (RIGHT) MOUNTED ON SAME POLE AS R1-1 AND R6-1L
	139+85	LT	3-5	R1-1	---	---	---	---	1	---	STOP SIGN MOUNTED ON SAME POLE AS R6-2R AND R6-1L
	139+85	LT	3-5	R6-1L	---	---	---	---	1	---	ONE WAY ARROW (RIGHT) MOUNTED ON SAME POLE AS R1-1 AND R6-1R
	140+45	LT	3-6	R6-2R	---	---	---	---	1	---	ONE WAY ARROW (RIGHT) MOUNTED ON SAME POLE AS R1-1 AND R6-1L
	140+45	LT	3-6	R1-1	---	---	---	---	1	---	STOP SIGN MOUNTED ON SAME POLE AS R6-2R AND R6-1L
	140+45	LT	3-6	R6-2L	---	---	---	---	1	---	ONE WAY ARROW (RIGHT) MOUNTED ON SAME POLE AS R1-1 AND R6-1R
	144+65	LT	3-10	R7-1D	---	---	---	---	1	---	NO PARKING TWO DIRECTIONAL ARROW
	146+48	LT	3-13	R2-1	---	---	---	---	1	---	SPEED LIMIT 30 MPH MOUNTED ON SAME POLE AS R7-1D

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

PERMANENT SIGNING (CONT.)

STAGE	STATION	OFFSET	SIGN NO.	SIGN CODE	SIGN SIZE IN x IN	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	REMARKS
3	146+48	LT	3-13	R7-1D	---	---	---	---	1	---	NO PARKING TWO DIRECTIONAL ARROW MOUNTED ON SAME POLE AS R2-1
	146+78	LT	3-14	R6-2R	---	---	---	---	1	---	ONE WAY ARROW (RIGHT)
	147+48	LT	3-16	R6-2L	---	---	---	---	1	---	ONE WAY ARROW (LEFT)
	147+51	LT	3-17	R7-1D	---	---	---	---	1	---	NO PARKING TWO DIRECTIONAL ARROW
	149+00	LT	3-20	R7-1L	---	---	---	---	1	---	NO PARKING ARROW (LEFT)
	150+99	LT	3-22	M3-1	---	---	---	---	1	---	SOUTH MOUNTED ON SAME POLE AS M3-1 AND M50-2
	150+99	LT	3-22	M3-1	---	---	---	---	1	---	SOUTH MOUNTED ON SAME POLE AS M3-1 AND M50-2
	150+99	LT	3-22	M50-2	---	---	---	---	1	---	STH 47 AND STH 55 MOUNTED ON SAME POLE AS TWO M3-1
			STAGE 3 SUBTOTALS			0	1.50	16.50	38	2	
4	82+00	RT	1-0	R3-17	---	---	---	---	---	1	BIKE LANE
	82+00	RT	1-0	R3-17BP	---	---	---	---	---	1	ENDS MOUNTED ON SAME POLE AS R3-17
	87+53	RT	1-4	S1-1	---	---	---	---	1	---	PEDESTRIAN CROSSING, MOUNTED ON SAME POST AS W16-9P
	87+53	RT	1-4	W16-9P	---	---	---	---	1	---	AHEAD MOUNTED ON SAME POLEA AS S1-1
	92+00	RT	1-5	S4-51	---	---	---	---	1	---	SPEED LIMIT 15 MPH WHEN CHILDREN ARE PRESENT MOUNTED ON SAME POLE AS S16-9P
	92+00	RT	1-5	S16-9P	---	---	---	---	1	---	AHEAD MOUNTED ON SAME POLEA AS S4-51
	102+31	RT	1-7	S1-1	---	---	---	---	1	---	PEDESTRIAN CROSSING, MOUNTED ON SAME POST AS W16-7L
	102+31	RT	1-7	W16-7L	---	---	---	---	1	---	DIAGONAL ARROW, MOUNTED ON SAME POST AS S1-1
	102+31	RT	1-7	W14-3	---	---	---	---	1	---	NO PASSING ZONE
	103+18	RT	1-8	R1-1	---	---	---	---	1	---	STOP SIGN
	103+44	RT	1-11	W11-2	30"X30"	---	---	6.25	---	---	PEDESTRIAN CROSSING, MOUNTED ON SAME POST AS W16-7L AND R10-25
	103+44	RT	1-11	W11-2	30"X30"	---	---	6.25	---	---	PEDESTRIAN CROSSING, MOUNTED ON SAME POST AS W16-7R AND R10-25
	103+44	RT	1-11	W16-7L	24"X12"	---	---	2.00	---	---	DIAGONAL ARROW, MOUNTED ON SAME POST AS W11-2 AND R10-25
	103+44	RT	1-11	W16-7R	24"X12"	---	---	2.00	---	---	DIAGONAL ARROW, MOUNTED ON SAME POST AS W11-2 AND R10-25
	103+44	RT	1-11	R10-25	9"X12"	---	0.75	---	---	---	PUSH BUTTON TO TURN ON WARNING LIGHTS MOUNTED ON SAME POLE AS W11-2 AND W16-7L
	103+44	RT	1-11	R10-25	9"X12"	---	0.75	---	---	---	PUSH BUTTON TO TURN ON WARNING LIGHTS MOUNTED ON SAME POLE AS W11-2 AND W16-7R
	106+54	RT	1-12	D52-53L	---	---	---	---	1	---	ENTRANCE (DIAGONAL ARROW)
	106+54	RT	1-12	D52-53R	---	---	---	---	1	---	ENTRANCE (DIAGONAL ARROW)
	108+54	RT	1-14	S1-1	---	---	---	---	1	---	PEDESTRIAN CROSSING, MOUNTED ON SAME POST AS W16-9P
	108+54	RT	1-14	W16-9P	---	---	---	---	1	---	AHEAD MOUNTED ON SAME POLE AS S1-1
	110+89	RT	2-1	R1-1	---	---	---	---	1	---	STOP SIGN
	112+52	RT	2-4	R1-1	---	---	---	---	1	---	STOP SIGN
	119+98	RT	2-9	S1-1	---	---	---	---	1	---	PEDESTRIAN CROSSING, MOUNTED ON SAME POST AS W16-7L
	119+98	RT	2-9	W16-7L	---	---	---	---	1	---	DIAGONAL ARROW, MOUNTED ON SAME POST AS S1-1
	123+36	RT	2-11	W11-8	---	---	---	---	1	---	FIRETRUCK CROSSING
	125+30	RT	2-13	R2-1	---	---	---	---	1	---	SPEED LIMIT 35 MPH
	126+59	RT	2-15	R1-1	---	---	---	---	1	---	STOP SIGN
	129+16	RT	2-16	D1-52	---	---	---	---	1	---	DRIVERS LICENSING
	129+85	RT	2-17	W14-1	---	---	---	---	1	---	DEAD END
	130+25	RT	2-18	R1-1	---	---	---	---	1	---	STOP SIGN
	131+09	RT	2-20	S1-1	---	---	---	---	---	1	PEDESTRIAN CROSSING
	132+34	RT	2-22	R1-1	---	---	---	---	1	---	STOP SIGN
	133+24	RT	2-23	R2-1	---	---	---	---	1	---	SPEED LIMIT 30 MPH
	136+47	RT	3-3	S1-1	---	---	---	---	---	1	PEDESTRIAN CROSSING
	141+82	RT	3-7	W2-2	---	---	---	---	1	---	SIDE ROAD LEFT AHEAD
	142+76	RT	3-8	W1-2L	---	---	---	---	1	---	CURVE LEFT AHEAD
	143+69	RT	3-9	R7-1L	---	---	---	---	1	---	NO PARKING ARROW (LEFT)
	146+12	RT	3-12	R7-1D	---	---	---	---	1	---	NO PARKING ARROW (TWO DIRECTIONAL)
	147+26	RT	3-15	W11-2	---	---	---	---	1	---	PEDESTRIAN CROSSING
	148+06	RT	3-18	W1-6	---	---	---	---	1	---	ONE DIRECTION LARGE ARROW
	148+06	RT	3-18	R7-1R	---	---	---	---	1	---	NO PARKING ARROW (RIGHT) MOUNTED ON SAME POLE AS R2-1
	148+91	RT	3-19	R2-1	---	---	---	---	1	---	SPEED LIMIT 30 MPH MOUNTED ON SAME POLE AS R7-1R
	149+81	RT	3-21	M2-1	---	---	---	---	1	---	JCT MOUNTED ON SAME POLE AS M1-5A
	149+81	RT	3-21	M1-5A	---	---	---	---	1	---	CTH VV MOUNTED ON SAME POLE AS M2-1
	151+44	RT	3-23	D1-60	---	---	---	---	1	---	UNDERHILL W/ ARROW (RIGHT)
			STAGE 4 SUBTOTALS			0	1.50	16.50	35	4	

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PERMANENT SIGNING (CONT.)

STAGE	STATION	OFFSET	SIGN NO.	SIGN CODE	SIGN SIZE IN x IN	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	REMARKS
5	156+65	RT	3-30	R2-1	---	---	---	---	1	---	SPEED LIMIT 35 MPH
	158+56	RT	3-31	M3-1	---	---	---	---	1	---	NORTH MOUNTED ON SAME POLE AS M3-1 AND M50-1
	158+56	RT	3-31	M3-1	---	---	---	---	1	---	NORTH MOUNTED ON SAME POLE AS M3-1 AND M50-1
	158+56	RT	3-31	M50-2	---	---	---	---	1	---	STH 47 AND STH 55 MOUNTED ON SAME POLE AS TWO M3-1
	166+06	RT	4-3	R2-1	---	---	---	---	1	---	SPEED LIMIT 45 MPH
	171+90	RT	4-7	R1-1	---	---	---	---	1	---	STOP SIGN
	173+03	RT	4-8	R2-1	---	---	---	---	1	---	SPEED LIMIT 45 MPH
	178+68	RT	4-10	R6-1R	---	---	---	---	1	---	ONE WAY ARROW (RIGHT) MOUNTED ON SAME POLE AS R5-1
	178+68	RT	4-10	R5-1	---	---	---	---	1	---	DO NOT ENTER MOUNTED ON SAME POLE AS R6-1R
	178+99	RT	4-11	R6-1L	---	---	---	---	1	---	ONE WAY ARROW (LEFT) MOUNTED ON SAME POLE AS R5-1
	178+99	RT	4-11	R5-1	---	---	---	---	1	---	DO NOT ENTER MOUNTED ON SAME POLE AS R6-1L
	179+80	RT	4-12	R6-1L	---	---	---	---	1	---	ONE WAY ARROW (LEFT) MOUNTED ON SAME POLE AS R5-1
	179+80	RT	4-12	R5-1	---	---	---	---	1	---	DO NOT ENTER MOUNTED ON SAME POLE AS R6-1L
	180+10	RT	4-13	R6-1R	---	---	---	---	1	---	ONE WAY ARROW (RIGHT) MOUNTED ON SAME POLE AS R5-1
	180+10	RT	4-13	R5-1	---	---	---	---	1	---	DO NOT ENTER MOUNTED ON SAME POLE AS R6-1R
	181+80	RT	4-15	R2-1	---	---	---	---	1	---	SPEED LIMIT 45 MPH MOUNTED ON SAME POLE AS R7-1D
	181+80	RT	4-15	R7-1D	---	---	---	---	1	---	NO PARKING ARROW (TWO DIRECTIONAL) MOUNTED ON SAME POLE AS R2-1
	184+77	RT	4-18	R7-1D	---	---	---	---	1	---	NO PARKING ARROW (TWO DIRECTIONAL)
	186+30	RT	4-20	R7-1D	---	---	---	---	1	---	NO PARKING ARROW (TWO DIRECTIONAL)
	187+97	RT	4-22	R7-1D	---	---	---	---	1	---	NO PARKING ARROW (TWO DIRECTIONAL)
	193+87	RT	5-2	D1-60	---	---	---	---	1	---	MENOMINEE COURT HOUSE W/ ARROW
	193+87	RT	5-2	D1-60	---	---	---	---	1	---	TRIBAL CLINIC W/ ARROW
	193+87	RT	5-2		---	---	---	---	1	---	POST OFFICE
	198+00	RT	5-5	R3-17	30"X24"	1	5.00	---	---	---	BIKE LANE MOUNTED ON SAME POLE AS 53-17BP
	198+00	RT	5-5	R3-17BP	30"X12"	---	2.50	---	---	---	ENDS MOUNTED ON SAME POLE AS R3-17
	199+40	RT	5-8	R2-1	---	---	---	---	1	---	SPEED LIMIT 55 MPH
	202+50	RT	5-10	M3-1	---	---	---	---	1	---	NORTH MOUNTED ON SAME POLE AS M3-1, M50-2 AND M50-2A
	202+50	RT	5-10	M3-1	---	---	---	---	1	---	NORTH MOUNTED ON SAME POLE AS M3-1, M50-2 AND M50-2A
	202+50	RT	5-10	M3-1	---	---	---	---	1	---	NORTH MOUNTED ON SAME POLE AS M3-1, M50-2 AND M50-2A
	202+50	RT	5-10	M50-2	---	---	---	---	1	---	STH 47 AND STH 55 MOUNTED ON SAME POLE AS TWO M3-1 AND M50-2A
	202+50	RT	5-10	M50-2A	---	---	---	---	1	---	STRAIGTH AND LEFT AHEAD ON SAME POLE AS TWO M3-1 AND M50-2
	204+42	RT	5-11	D1-60A	---	---	---	---	1	---	NEOPIT, ANTIGO AND CRANDON W/ ARROWS
	207+83	RT	5-15	M3-1	---	---	---	---	1	---	NORTH MOUNTED ON SAME POLE AS M1-6 AND M6-1
	207+83	RT	5-15	M1-6	---	---	---	---	1	---	STH 55 MOUNTED ON SAME POLE AS M3-1 AND M6-1
	207+83	RT	5-15	M6-1	---	---	---	---	1	---	RIGHT ARROW MOUNTED ON SAME POLE AS M3-1 AND M1-6
	209+28	RT	5-17	R1-1	---	---	---	---	1	---	STOP SIGN
	209+55	RT	5-18	M3-1	---	---	---	---	1	---	SOUTH MOUNTED ON SAME POLE AS TWO M3-1, M50-3 AND M50-3A
	209+55	RT	5-18	M3-1	---	---	---	---	1	---	SOUTH MOUNTED ON SAME POLE AS TWO M3-1, M50-3 AND M50-3A
	209+55	RT	5-18	M3-1	---	---	---	---	1	---	NORTH MOUNTED ON SAME POLE AS TWO M3-1, M50-3 AND M50-3A
	209+55	RT	5-18	M50-3	---	---	---	---	1	---	STH 47, STH 55, AND STH 47 MOUNTED ON SAME POLE AS THREE M3-1 AND M50-3A
	209+55	RT	5-18	M50-3A	---	---	---	---	1	---	TWO LEFT ARROWS AND RIGHT ARROW MOUNTED ON SAME POLE AS THREE M 3-1 AND M50-3
	211+03	RT	5-20	M3-1	---	---	---	---	1	---	NORTH MOUNTED ON SAME POLE AS M1-6 AND M6-1
	211+03	RT	5-20	M1-6	---	---	---	---	1	---	STH 47 MOUNTED ON SAME POLE AS M3-1
	211+98	RT	5-22	I3-1	---	---	---	---	1	---	WOLF RIVER
	216+50	RT	5-24	M1-5A	---	---	---	---	1	---	CTH VV MOUNTED ON SAME POLE AS M5-1L, I55-56 AND W14-3
	216+50	RT	5-24	M5-1L	---	---	---	---	1	---	LEFT AHEAD ARROW MOUNTED ON SAME POLE AS M1-5A, I55-56 AND W14-3
	216+50	RT	5-24	I55-56	---	---	---	---	1	---	ADOPT A HIGHWAY MOUNTED ON SAME POLE AS M1-5A, M5-1L AND W14-3
	216+50	RT	5-25	W14-3	---	---	---	---	1	---	NO PASSING ZONE MOUNTED ON SAME POLE AS M1-5A, M5-1L AND I55-56
	219+73	RT	5-29	M50-2	---	---	---	---	1	---	CTH VV AND WISCONSIN HERITAGE MOUNTED ON SAME POLE AS M6-1 AND MENOMINEE NATION
	219+73	RT	5-29	M6-1	---	---	---	---	1	---	LEFT ARROW MOUNTED ON SAME POLE AS M50-2 AND MENOMINEE NATION
	219+73	RT	5-29		---	---	---	---	1	---	MENOMINEE NATION MOUNTED ON SAME POLE AS M50-2 AND M6-1
	220+68	RT	5-32	R1-1	---	---	---	---	1	---	STOP SIGN
			STAGE 5 SUBTOTALS			1	7.50	0.00	49	0	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

PERMANENT SIGNING (CONT.)

STAGE	STATION	OFFSET	SIGN NO.	SIGN CODE	SIGN SIZE IN x IN	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	REMARKS
6	156+19	LT	3-28	W11-2	---	---	---	---	1	---	PEDESTRIAN CROSSING
	156+54	LT	3-29	R1-1	---	---	---	---	1	---	STOP SIGN
	158+76	LT	3-32	D1-60	---	---	---	---	1	---	UNDERHILL W/ ARROW MOUNTED ON SAME POLE AS CLICK-IT-OR-TICKET
	158+76	LT	3-32		---	---	---	---	1	---	CLICK-IT-OR-TICKET MOUNTED ON SAME POLE AS D1-60
	160+69	LT	3-33	R2-1	---	---	---	---	1	---	SPEED LIMIT 30 MPH
	162+44	LT	4-1	M1-5A	---	---	---	---	1	---	CTH VV MOUNTED ON SAME POLE AS M5-1L
	162+44	LT	4-1	M5-1L	---	---	---	---	1	---	LEFT AHEAD ARROW MOUNTED ON SAME POLE AS M1-5A
	166+53	LT	4-4	R1-1	---	---	---	---	1	---	STOP SIGN
	168+21	LT	4-5	R2-1	---	---	---	---	1	---	SPEED LIMIT 30 MPH
	171+22	LT	4-6	W3-5	---	---	---	---	1	---	REDUCE SPEED TO 30 MPH AHEAD
	174+98	LT	4-9	R2-1	---	---	---	---	1	---	SPEED LIMIT 45 MPH
	180+20	LT	4-14	R1-1	---	---	---	---	1	---	STOP SIGN
	182+67	LT	4-16	R2-1	---	---	---	---	1	---	SPEED LIMIT 45 MPH MOUNTED ON SAME POLE AS R7-1D
	182+67	LT	4-16	R7-1D	---	---	---	---	1	---	NO PARKING ARROW (TWO DIRECTIONAL) MOUNTED ON SAME POLE AS R2-1
	184+52	LT	4-17	R7-1D	---	---	---	---	1	---	NO PARKING ARROW (TWO DIRECTIONAL)
	186+25	LT	4-19		---	---	---	---	1	---	NO PARKING ON ALL VILLAGE STREETS
	188+02	LT	4-21	R7-1L	---	---	---	---	1	---	NO PARKING ARROW (LEFT)
	190+93	LT	4-23	I2-3A	---	---	---	---	1	---	KESHENA UNINCORPORATED
	192+06	LT	5-1	R2-1	---	---	---	---	1	---	SPEED LIMIT 45 MPH
	195+02	LT	5-3	D1-60	---	---	---	---	1	---	SHAWANO 8
	196+52	LT	5-4	R1-1	---	---	---	---	1	---	STOP SIGN
	198+47	LT	5-6	R2-1	---	---	---	---	1	---	SPEED LIMIT 45 MPH
	199+46	LT	5-7	R3-17	30"X24"	1	5.00	---	---	---	BIKE LANE MOUNTED ON SAME POLE AS R3-17AP
	199+46	LT	5-7	R3-17AP	30"X12"	---	2.50	---	---	---	ENDS MOUNTED ON SAME POLE AS R3-17
	201+46	LT	5-9	D1-60	---	---	---	---	1	---	MENOMINEE COURT HOUSE/TRIBAL CLINIC W/ ARROW
	205+10	LT	5-12	R2-1	---	---	---	---	1	---	SPEED LINIT 45 MPH
	206+34	LT	5-13	I55-56	---	---	---	---	1	---	ADOPT A HIGHWAY
	207+69	LT	5-14	M3-1	---	---	---	---	1	---	SOUTH MOUNTED ON THE SAME POLE AS M3-1 AND M50-2
	207+69	LT	5-14	M3-1	---	---	---	---	1	---	SOUTH MOUNTED ON THE SAME POLE AS M3-1 AND M50-3
	207+69	LT	5-14	M50-2	---	---	---	---	1	---	STH 55 AND STH 47 MOUNTED ON SAME POLE AS TWO M3-1
	208+53	LT	5-16	R1-1	---	---	---	---	1	---	STOP SIGN
	209+01	LT	5-16	R1-1	---	---	---	---	1	---	STOP SIGN
	209+69	LT	5-19	M3-1	---	---	---	---	1	---	NOTH MOUNTED ON THE SAME POLE AS M1-6 AND M6-1
	209+69	LT	5-19	M1-6	---	---	---	---	1	---	STH 55 MOUNTED ON THE SAME POLE AS M3-1 AND M6-1
	209+69	LT	5-19	M6-1	---	---	---	---	1	---	LEFT ARROW MOUNTED ON THE SAME POLE AS M3-1 AND M1-6
	212+03	LT	5-21	D1-60	---	---	---	---	1	---	SHAWANO AND CRANDON W/ ARROWS
	215+67	LT	5-23	I3-1	---	---	---	---	1	---	WOLF RIVER
	218+85	LT	5-28	M2-1	---	---	---	---	1	---	JCT MOUNTED ON THE SAME POLE AS M2-1 AND M1-7
	218+85	LT	5-28	M1-6	---	---	---	---	1	---	STH 55 MOUNTED ON THE SAME POLE AS M6-4 AND M1-6
	219+81	LT	5-30	M50-2	---	---	---	---	1	---	STH 47 AND CTH VV MOUNTED ON THE SAME POLE AS M50-2A
	219+81	LT	5-30	M50-2A	---	---	---	---	1	---	TWO DIRECTIONAL AND RIGHT ARROWS MOUNTED ON THE SAME POLE AS M50-3
	220+06	LT	5-31	R1-1	---	---	---	---	1	---	STOP SIGN
	221+47	LT	5-33	M1-5A	---	---	---	---	1	---	CTH VV MOUNTED ON SAME POLE AS M6-6
	221+47	LT	5-33	M6-6	---	---	---	---	1	---	STRAIGHT AND RIGHT ARROW MOUNTED ON THE SAME POLE AS M1-5A
			STAGE 6 SUBTOTALS			1	7.50	0.00	42	0	
UNDISTRIBUTED						17	---	---	---	---	
PROJECT 9650-17-70 TOTAL						19	18.00	33.00	171	6	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

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FIELD OFFICE

PROJECT	642.5001 TYPE B EACH
9650-17-70	1
PROJECT 9650-17-70 TOTAL	1

TRAFFIC CONTROL COVERING SIGNS

SIGN DETAIL NUMBER	PLAN SHEET	SIGN COVERED	NO. OF COVERING CYCLES	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II EACH
MO5-1L	DETOUR - TRUCK	AHEAD RIGHT ARROW	1	1
MO6-1	DETOUR - TRUCK	RIGHT ARROW	1	1
MO6-1	DETOUR - TRUCK	LEFT ARROW	1	1
MO6-1	DETOUR - TRUCK	LEFT ARROW	1	1
PROJECT 9650-17-70 TOTAL				**4**

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TRAFFIC CONTROL SIGNS

PROJECT	STAGE	LOCATION	643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE SF
9650-17-70	1	STH 47, SOUTH APPROACH	32
9650-17-70	1	STH 47, NORTH APPROACH	32
9650-17-70	2	STH 47, SOUTH APPROACH	32
9650-17-70	2	STH 47, NORTH APPROACH	32
PROJECT 9650-17-70 TOTAL			**128**

TRAFFIC CONTROL

PROJECT	643.5000 TRAFFIC CONTROL EACH
PROJECT 9650-17-61 TOTAL	0.1
PROJECT 9650-17-70 TOTAL	0.9

CRASH CUSHIONS TEMPORARY

PROJECT	STAGE	STATION	LOCATION	BACK WIDTH FT	OBJECT MARKING PATTERN	CRASH TEST LEVEL	TRAFFIC DIRECTION	TRAFFIC LOCATION	CRASH CUSHION SHIELDS	614.0905 CRASH CUSHIONS TEMPORARY EACH
9650-17-70	1A	154+50	RT	2	OM3-R (WO5-58L)	TL-3	UNIDIRECTIONAL	LT	TEMP BARRIER	1
	1B	154+90	LT	2	OM3-L (WO5-58L)	TL-3	UNIDIRECTIONAL	LT	TEMP BARRIER	1
	1C	153+15	LT	2	OM3-R (WO5-58L)	TL-3	UNIDIRECTIONAL	LT	TEMP BARRIER	1
		155+50	LT	2	OM3-R (WO5-58L)	TL-3	UNIDIRECTIONAL	LT	TEMP BARRIER	1
9650-17-61	2A	217+75	LT	2	OM3-R (WO5-58R)	TL-3	UNIDIRECTIONAL	RT	TEMP BARRIER	1
	2B	210+50	RT	2	OM3-R (WO5-58L)	TL-3	UNIDIRECTIONAL	LT	TEMP BARRIER	1
PROJECT 9650-17-61 TOTAL										**2**
PROJECT 9650-17-70 TOTAL										**4**

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

TRAFFIC CONTROL

LOCATION	DAYS IN SERVICE	603.8000 CONCRETE BARRIER TEMPORARY PRECAST DELIVERED LF	603.8125 CONCRETE BARRIER TEMPORARY PRECAST INSTALLED LF	643.0300 TRAFFIC CONTROL DRUMS NO.	643.0300 TRAFFIC CONTROL DRUMS DAY	643.0420 TRAFFIC CONTROL BARRICADES TYPE III NO.	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAY	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A NO.	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C NO.	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAY	643.0900 TRAFFIC CONTROL SIGNS NO.	643.0900 TRAFFIC CONTROL SIGNS DAY	643.1070 TRAFFIC CONTROL CONES 42-INCH NO.	643.1070 TRAFFIC CONTROL CONES 42-INCH DAY
ADVANCE WARNING	3	---	---	---	---	---	---	---	---	---	---	30	90	---	---
WORK ZONE	3	250	250	42	126	14	42	---	---	20	60	13	39	---	---
DETOUR	3	---	---	---	---	---	---	---	---	---	---	59	177	---	---
STAGE 1A		**250**	**250**		**126**		**42**		**0**		**60**		**306**		**0**
ADVANCE WARNING	50	---	---	---	---	---	---	---	---	---	---	30	1500	---	---
WORK ZONE	50	---	200	28	1400	8	400	---	---	13	650	15	750	---	---
DETOUR	50	---	---	---	---	---	---	---	---	---	---	59	2950	---	---
STAGE 1B		**0**	**200**		**1,400**		**400**		**0**		**650**		**5,200**		**0**
ADVANCE WARNING	22	---	---	---	---	---	---	---	---	---	---	30	660	---	---
WORK ZONE	22	---	225	35	770	4	88	---	---	20	440	13	286	---	---
DETOUR	22	---	---	---	---	---	---	---	---	---	---	59	1298	---	---
STAGE 1C		**0**	**225**		**770**		**88**		**0**		**440**		**2,244**		**0**
ADVANCE WARNING	3	---	---	---	---	12	36	16	48	---	---	27	81	---	---
WORK ZONE	3	---	---	50	150	1	3	---	---	---	---	---	---	---	---
DETOUR	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---
STAGE 3A		**0**	**0**		**150**		**39**		**48**		**0**		**81**		**0**
ADVANCE WARNING	62	---	---	---	---	12	744	16	992	---	---	27	1674	---	---
WORK ZONE	62	---	---	335	20770	26	1612	2	124	11	682	150	9300	---	---
DETOUR	62	---	---	---	---	1	62	2	124	---	---	563	34906	---	---
STAGE 3B		**0**	**0**		**20,770**		**2,418**		**1,240**		**682**		**45,880**		**0**
ADVANCE WARNING	52	---	---	---	---	24	1248	32	1664	---	---	35	1820	---	---
WORK ZONE	52	---	---	306	15912	33	1716	3	156	---	---	141	7332	---	---
DETOUR	52	---	---	---	---	1	52	2	104	---	---	563	29276	---	---
STAGE 4		**0**	**0**		**15,912**		**3,016**		**1,924**		**0**		**38,428**		**0**
ADVANCE WARNING	10	---	---	---	---	18	180	24	240	---	---	12	120	---	---
WORK ZONE	10	---	---	345	3450	---	---	---	---	53	530	10	100	0	0
STAGE 5A		**0**	**0**		**3,450**		**180**		**240**		**530**		**220**		**0**
ADVANCE WARNING	30	---	---	---	---	18	540	24	720	---	---	12	360	---	---
WORK ZONE	30	---	---	5	150	---	---	---	---	---	---	---	---	127	3810
STAGE 5B		**0**	**0**		**150**		**540**		**720**		**0**		**360**		**3,810**
ADVANCE WARNING	34	---	---	---	---	24	816	32	1088	---	---	16	544	---	---
WORK ZONE	34	---	---	132	4488	---	---	---	---	---	---	---	---	---	---
STAGE 6		**0**	**0**		**4,488**		**816**		**1,088**		**0**		**544**		**0**
PROJECT 9650-17-70 TOTALS		**250**	**675**		**47,216**		**7,539**		**5,260**		**2,362**		**93,263**		**3,810**
ADVANCE WARNING	70	---	---	---	---	---	---	---	---	---	---	30	2100	---	---
WORK ZONE	70	587.5	587.5	12	840	1	70	2	140	12	840	7	490	---	---
STAGE 2A		**587.5**	**587.5**		**840**		**70**		**140**		**840**		**2,590**		**0**
ADVANCE WARNING	70	---	---	---	---	---	---	---	---	---	---	30	2100	---	---
WORK ZONE	70	---	587.5	12	840	1	70	---	---	12	840	7	490	---	---
STAGE 2B		**0**	**587.5**		**840**		**70**		**0**		**840**		**2,590**		**0**
PROJECT 9650-17-61 TOTALS		**587.5**	**1,175.0**		**1,680**		**140**		**140**		**1,680**		**5,180**		**0**

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

PAVEMENT MARKING LINE ITEMS

STATION	-	STATION	TYPE	646.1020 MARKING LINE EPOXY 4-INCH WHITE LF	646.1020 MARKING LINE EPOXY 4-INCH YELLOW LF	646.1040 MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH LF	646.3020 MARKING LINE EPOXY 8-INCH WHITE LF	646.4520 MARKING LINE SAME DAY EPOXY 4-INCH YELLOW LF	646.6120 MARKING STOP LINE EPOXY 18-INCH WHITE LF	646.6464 COLD WEATHER MARKING EPOXY 4-INCH LF	646.6468 COLD WEATHER MARKING EPOXY 8-INCH LF	646.7420 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH WHITE LF	646.7520 MARKING CROSSWALK EPOXY LADDER PATTERN 24-INCH WHITE LF
79+68	-	95+17	CENTERLINE (DOUBLE SOLID)	---	---	---	---	3,100	---	---	---	---	---
82+45	-	95+17	EDGELINES	2,460	---	---	---	---	---	2,460	---	---	---
82+86	-	82+92	STH 47 CROSSWALK	---	---	---	---	---	---	---	---	---	48
83+00	-	83+57	DODGE RD CROSSWALK	---	---	---	---	---	---	---	---	154	---
83+11	-	83+29	DODGE RD STOP BAR	---	---	---	---	---	18	---	---	---	---
95+17	-	102+20	EDGELINES, CENTERLINE (SOLID & DASHED)	1,410	---	---	---	880	---	1,410	---	---	---
102+20	-	102+26	STH 47 CROSSWALK	---	---	---	---	---	---	---	---	---	48
102+20	-	114+90	EDGELINES, CENTERLINE (DASHED)	2,290	---	---	---	320	---	2,290	---	---	---
102+45	-	103+11	WARRINGTON RD CROSSWALK	---	---	---	---	---	---	---	---	119	---
102+54	-	103+28	WARRINGTON RD CROSSWALK	---	---	---	---	---	---	---	---	133	---
102+83	-	103+17	WARRINGTON RD STOP BAR	---	---	---	---	---	34	---	---	---	---
103+62	-	103+68	STH 47 CROSSWALK	---	---	---	---	---	---	---	---	---	48
111+87	-	112+61	CHIEF LITTLE WAVE RD CROSSWALK	---	---	---	---	---	---	---	---	128	---
112+20	-	112+42	CHIEF LITTLE WAVE RD STOP BAR	---	---	---	---	---	22	---	---	---	---
114+90	-	122+50	EDGELINES, CENTERLINE (SOLID & DASHED)	1,520	---	---	---	950	---	1,520	---	---	---
120+04	-	120+10	STH 47 CROSSWALK	---	---	---	---	---	---	---	---	---	48
120+30	-	120+97	MORRIN ST CROSSWALK	---	---	---	---	---	---	---	---	119	---
120+42	-	120+64	MORRIN ST STOP BAR	---	---	---	---	---	22	---	---	---	---
122+50	-	219+80	CENTERLINE (DOUBLE SOLID)	---	---	---	---	19,460	---	---	---	---	---
122+50	-	165+24	EDGELINES	7,430	---	---	---	---	---	7,430	---	---	---
125+55	-	125+61	STH 47 CROSSWALK	---	---	---	---	---	---	---	---	---	48
125+88	-	126+61	CHIEF CARRON ST CROSSWALK	---	---	---	---	---	---	---	---	134	---
126+24	-	126+48	CHIEF CARRON ST STOP BAR	---	---	---	---	---	24	---	---	---	---
126+85	-	126+91	STH 47 CROSSWALK	---	---	---	---	---	---	---	---	---	54
129+72	-	130+35	WOLF CT CROSSWALK	---	---	---	---	---	---	---	---	117	---
130+04	-	130+25	WOLF CT STOP BAR	---	---	---	---	---	23	---	---	---	---
131+39	-	131+45	STH 47 CROSSWALK	---	---	---	---	---	---	---	---	---	48
131+67	-	132+48	BROOKS LN CROSSWALK	---	---	---	---	---	---	---	---	138	---
131+79	-	132+06	BROOKS LN STOP BAR	---	---	---	---	---	27	---	---	---	---
131+79	-	132+42	OUR CHILDRENS RD CROSSWALK	---	---	---	---	---	---	---	---	116	---
132+10	-	132+32	OUR CHILDRENS RD STOP BAR	---	---	---	---	---	22	---	---	---	---
132+76	-	132+82	STH 47 CROSSWALK	---	---	---	---	---	---	---	---	---	48
139+98	-	140+30	SOUTH TRIBAL OFFICE LOOP RD CROSSWALK	---	---	---	---	---	---	---	---	64	---
140+00	-	140+14	SOUTH TRIBAL OFFICE LOOP RD STOP BAR	---	---	---	---	---	14	---	---	---	---
146+75	-	147+51	NORTH TRIBAL OFFICE LOOP RD CROSSWALK	---	---	---	---	---	---	---	---	128	---
146+85	-	147+12	NORTH TRIBAL OFFICE LOOP RD STOP BAR	---	---	---	---	---	25	---	---	---	---
154+02	-	154+84	CTH VV CROSSWALK	---	---	---	---	---	---	---	---	148	---
154+43	-	154+73	CTH VV STOP BAR	---	---	---	---	---	29	---	---	---	---
156+33	-	156+39	STH 47 CROSSWALK	---	---	---	---	---	---	---	---	---	54
156+48	-	157+35	FAIRGROUNDS RD CROSSWALK	---	---	---	---	---	---	---	---	157	---
			SUBTOTALS	15,110		0	0	24,710	260	15,110	0	1,655	444

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

PAVEMENT MARKING LINE ITEMS (CONT.)

STATION	-	STATION		646.1020 MARKING LINE EPOXY 4-INCH WHITE LF	646.1020 MARKING LINE EPOXY 4-INCH YELLOW LF	646.1040 MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH LF	646.3020 MARKING LINE EPOXY 8-INCH WHITE LF	646.4520 MARKING LINE SAME DAY EPOXY 4-INCH YELLOW LF	646.6120 MARKING STOP LINE EPOXY 18-INCH WHITE LF	646.6464 COLD WEATHER MARKING EPOXY 4-INCH LF	646.6468 COLD WEATHER MARKING EPOXY 8-INCH LF	646.7420 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH WHITE LF	646.7520 MARKING CROSSWALK EPOXY LADDER PATTERN 24-INCH WHITE LF
156+60	-	156+86	FAIRGROUNDS RD STOP BAR	---	---	---	---	---	26	---	---	---	---
164+38	-	165+06	BLACKSMITH RD CROSSWALK	---	---	---	---	---	---	---	---	125	---
164+71	-	164+96	BLACKSMITH RD STOP BAR	---	---	---	---	---	25	---	---	---	---
165+24	-	219+80	EDGELINES	694	---	9,490	---	---	---	10,184	---	---	---
171+20	-	171+91	RABBIT RIDGE RD CROSSWALK	---	---	---	---	---	---	---	---	125	---
171+55	-	171+79	RABBIT RIDGE RD STOP BAR	---	---	---	---	---	24	---	---	---	---
195+32	-	198+20	LANE LINE	---	80	---	---	---	---	80	---	---	---
206+11	-	208+11	STH 47, TURN LANE, RT	---	---	---	199	---	---	---	199	---	---
208+51	-	209+31	STH 55, CROSSWALK	---	---	---	---	---	---	---	---	158	---
UNDISTRIBUTED				---	---	---	---	1,240	---	---	---	---	---
PROJECT 9650-17-70 TOTAL				**15,884**		**9,490**	**199**	**25,950**	**335**	**25,374**	**199**	**2,063**	**444**

TEMPORARY PEDESTRIAN

STATION	-	STATION	LOCATION	644.1410 SURFACE ASPHALT SF	644.1601 CURB RAMP DAY
UNDISTRIBUTED			STH 47	2,000	532
PROJECT 9650-17-70 TOTAL				**2,000**	**532**

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

PAVEMENT MARKING SYMBOL ITEMS

STATION	RT/LT	LOCATION	646.5020 MARKING ARROW EPOXY BIKE LANE WHITE EACH	646.5020 MARKING ARROW EPOXY TYPE 2 WHITE EACH	646.5220 MARKING SYMBOLS EPOXY WHITE EACH	646.5120 MARKING WORD EPOXY WHITE EACH
82+53	LT	STH 47, SB	1	---	--	---
82+64	LT	STH 47, SB	--	---	1	---
83+80	RT	STH 47, NB	--	---	1	---
83+92	RT	STH 47, NB	1	---	--	---
101+95	LT	STH 47, SB	1	---	--	---
102+07	LT	STH 47, SB	--	---	1	---
12+63	RT	WARRINGTON RD, WB	---	2	---	---
103+65	RT	STH 47, NB	--	---	1	---
103+78	RT	STH 47, NB	1	---	--	---
111+39	LT	STH 47, SB	1	---	--	---
111+51	LT	STH 47, SB	--	---	1	---
113+20	RT	STH 47, NB	--	---	1	---
113+32	RT	STH 47, NB	1	---	--	---
119+78	LT	STH 47, SB	1	---	--	---
119+91	LT	STH 47, SB	--	---	1	---
121+33	RT	STH 47, NB	--	---	1	---
121+45	RT	STH 47, NB	1	---	--	---
125+27	LT	STH 47, SB	1	---	--	---
125+39	LT	STH 47, SB	--	---	1	---
127+04	RT	STH 47, NB	--	---	1	---
127+15	RT	STH 47, NB	1	---	--	---
131+13	LT	STH 47, SB	1	---	--	---
131+25	LT	STH 47, SB	--	---	1	---
132+94	RT	STH 47, NB	--	---	1	---
133+06	RT	STH 47, NB	1	---	--	---
139+37	LT	STH 47, SB	1	---	--	---
139+48	LT	STH 47, SB	--	---	1	---
140+85	RT	STH 47, NB	--	---	1	---
140+97	RT	STH 47, NB	1	---	--	---
146+32	LT	STH 47, SB	1	---	--	---
146+44	LT	STH 47, SB	--	---	1	---
147+88	RT	STH 47, NB	--	---	1	---
148+00	RT	STH 47, NB	1	---	--	---
155+21	RT	STH 47, NB	--	---	1	---
155+33	RT	STH 47, NB	1	---	--	---
155+98	LT	STH 47, SB	1	---	--	---
SUBTOTAL			18	2	17	0

PAVEMENT MARKING SYMBOL ITEMS (CONT.)

STATION	RT/LT	LOCATION	646.5020 MARKING ARROW EPOXY BIKE LANE WHITE EACH	646.5020 MARKING ARROW EPOXY TYPE 2 WHITE EACH	646.5220 MARKING SYMBOLS EPOXY WHITE EACH	646.5120 MARKING WORD EPOXY WHITE EACH
156+10	LT	STH 47, SB	--	---	1	---
164+80	LT	STH 47, SB	1	---	--	---
164+92	LT	STH 47, SB	--	---	1	---
165+41	RT	STH 47, NB	--	---	1	---
165+53	RT	STH 47, NB	1	---	--	---
170+71	LT	STH 47, SB	1	---	--	---
170+83	LT	STH 47, SB	--	---	1	---
172+27	RT	STH 47, NB	--	---	1	---
172+39	RT	STH 47, NB	1	---	--	---
179+34	LT	STH 47, SB	1	---	--	---
179+46	LT	STH 47, SB	--	---	1	---
181+82	RT	STH 47, NB	--	---	1	---
181+94	RT	STH 47, NB	1	---	--	---
195+61	LT	STH 47, SB	1	---	--	---
195+73	LT	STH 47, SB	--	---	1	---
197+71	RT	STH 47, NB	--	---	1	---
197+83	RT	STH 47, NB	1	---	--	---
206+35	RT	STH 47, NB	---	1	---	---
207+26	LT	STH 47, SB	1	---	--	---
207+38	LT	STH 47, SB	--	---	1	---
207+46	RT	STH 47, NB	---	---	---	1
207+86	RT	STH 47, NB	---	1	---	---
210+39	RT	STH 47, NB	--	---	1	---
210+51	RT	STH 47, NB	1	---	--	---
218+60	LT	STH 47, SB	1	---	--	---
218+72	LT	STH 47, SB	--	---	1	---
SUBTOTAL			11	2	12	1
PROJECT 9650-17-70 TOTAL			**29**	**4**	**29**	**1**

LOCATING NO-PASSING ZONES

STATION	-	STATION	648.0100 LOCATING NO-PASSING ZONES MI
82+45	-	126+00	0.82
PROJECT 9650-17-70 TOTAL			**0.82**

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

3

TEMPORARY PAVEMENT MARKING ITEMS

STAGE	STATION	-	STATION	TYPE	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH WHITE LF	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH YELLOW LF	649.0105 TEMPORARY MARKING LINE PAINT 4-INCH WHITE LF	649.0105 TEMPORARY MARKING LINE PAINT 4-INCH YELLOW LF	649.0250 TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH WHITE LF	649.0850 TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH LF	646.9000 MARKING REMOVAL LINE 4-INCH LF
1A		149+75		STH 47, STOP BAR	---	---	---	---	---	15	---
	149+75	-	153+45	STH 47, CENTERLINE	--	---	---	---	---	---	508
	150+10	-	157+20	STH 47, EDGELINE RT/LT	713	---	---	---	---	---	---
	151+54	-	151+60	STH 47, CROSSWALK	---	---	---	---	96	---	---
	154+70	-	157+00	STH 47, CENTERLINE	---	---	---	---	---	---	230
		156+23		STH 47, STOP BAR	---	---	---	---	---	19	---
	156+23	-	157+00	STH 47, STOP BAR	---	156	---	---	---	---	---
				STAGE 1A SUBTOTAL	869		0		96	34	738
1B	149+75	-	156+00	STH 47 EDGELINE, RT/LT	628	---	---	---	---	---	---
				STAGE 1B SUBTOTAL	628		0		0	0	0
1C	150+10	-	157+20	STH 47, EDGELINE RT/LT	713	---	---	---	---	---	---
				STAGE 1C SUBTOTAL	713		0		0	0	0
3B	79+68	-	82+30	STH 47, EDGELINE, RT	263	---	---	---	---	---	---
	79+68	-	82+37	STH 47, CENTERLINE	---	---	---	---	---	---	538
	79+68	-	83+00	STH 47, EDGELINE, RT/LT	333	---	---	---	---	---	---
	83+60	-	102+34	STH 47, EDGELINE, RT	---	---	1,874	---	---	---	---
	102+77	-	103+12	WARRINGTON RD, CROSSWALK	---	---	---	---	66	---	---
	102+94	-	103+16	STH 47, CROSSWALK	---	---	---	---	118	---	---
	103+26	-	120+10	STH 47, EDGELINE, RT	---	---	1,684	---	---	---	---
	120+04	-	120+16	STH 47, CROSSWALK	---	---	---	---	104	---	---
	121+18	-	131+64	STH 47, EDGELINE, RT	---	---	1,047	---	---	---	---
	132+46	-	139+87	STH 47, EDGELINE, RT	---	---	741	---	---	---	---
	140+55	-	146+75	STH 47, EDGELINE, RT	---	---	620	---	---	---	---
	147+38		147+44	STH 47, CROSSWALK	---	---	---	---	130	---	---
	147+59	-	152+95	STH 47, EDGELINE, RT	---	---	539	---	---	---	---
	151+75	-	155+40	STH 47, CENTERLINE	---	---	---	---	---	---	730
	152+95	-	155+40	STH 47, EDGELINE, RT/LT	246	---	---	---	---	---	---
				STAGE 3B SUBTOTAL	842		6,505		418	0	1,268

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

TEMPORARY PAVEMENT MARKING ITEMS (CONT.)

STAGE	STATION	-	STATION	TYPE	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH WHITE LF	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH YELLOW LF	649.0105 TEMPORARY MARKING LINE PAINT 4-INCH WHITE LF	649.0105 TEMPORARY MARKING LINE PAINT 4-INCH YELLOW LF	649.0250 TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH WHITE LF	649.0850 TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH LF	646.9000 MARKING REMOVAL LINE 4-INCH LF
4	79+67	-	102+36	STH 47, EDGELINE, LT	---	2,270	---	---	---	---	---
	103+07	-	103+13	STH 47, CROSSWALK	---	---	---	---	116	---	---
	103+42	-	111+74	STH 47, EDGELINE, LT	---	832	---	---	---	---	---
	112+65	-	131+70	STH 47, EDGELINE, LT	---	1,903	---	---	---	---	---
	120+04	-	120+16	STH 47, CROSSWALK	---	---	---	---	82	---	---
	132+50	-	154+00	STH 47, EDGELINE, RT/LT	---	2,160	---	---	---	---	---
	147+38	-	147+51	STH 47, CROSSWALK	---	---	---	---	116	---	---
				STAGE 4 SUBTOTAL	7,165		0		314	0	0
5A		172+06		STH 47, STOP BAR	---	---	---	---	---	19	---
	172+06	-	173+68	STH 47, CENTERLINE	---	---	---	324	---	---	324
	172+96	-	179+53	STH 47, EDGELINE, RT	661	---	---	---	---	---	---
	175+39	-	176+52	STH 47, CENTERLINE	---	---	---	226	---	---	---
	178+62	-	180+43	STH 47, CENTERLINE	---	---	---	362	---	---	362
		180+43		STH 47, STOP BAR	---	---	---	---	---	16	---
	189+09	-	189+97	STH 47, CENTERLINE	---	---	---	176	---	---	---
		197+55		STH 47, STOP BAR	---	---	---	---	---	25	---
	197+55		203+78	STH 47, CENTERLINE	---	---	---	1,246	---	---	1,246
		203+78		STH 47, STOP BAR	---	---	---	---	---	17	---
				STAGE 5A SUBTOTAL	661		2,334		0	77	1,932
PROJECT 9650-17-70 TOTAL					**10,878**		**8,839**		**828**	**111**	**3,938**
2A		209+50		STH 47, STOP BAR	---	---	---	---	---	---	---
	209+50	-	211+35	STH 47, CENTERLINE	---	---	---	370	---	---	370
	210+15	-	218+15	STH 47, EDGELINE RT/LT	804	---	---	---	---	---	---
	217+00	-	218+75	STH 47, CENTERLINE	---	---	---	350	---	---	350
		218+75		STH 47, STOP BAR	---	---	---	---	---	12	---
	218+75	-	225+75	STH 47, CENTERLINE	---	1,400	---	---	---	---	---
				STAGE 2A SUBTOTAL	2,204		720		0	12	720
2B	209+50	-	211+35	STH 47, CENTERLINE	---	---	---	370	---	---	---
	210+00	-	218+17	STH 47, EDGELINE RT/LT	820	---	---	---	---	---	---
	217+00	-	218+75	STH 47, CENTERLINE	---	---	---	350	---	---	---
				STAGE 2B SUBTOTAL	820		720		0	0	0
PROJECT 9650-17-61 TOTAL					**3,024**		**1,440**		**0**	**12**	**720**

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

3

CONSTRUCTION STAKING

STATION	-	STATION	LOCATION	650.4500 SUBGRADE LF	650.5000 BASE LF	650.8000 RESURFACING REFERENCE LF	650.9910 SUPPLEMENTAL CONTROL LS	650.9920 SLOPE STAKES LF	SPV.0090.03 SIDEWALK LF	CATEGORY
			PROJECT (9650-17-70)	---	---	---	1	---	---	
82+45	-	146+00	STH 47	6,355	6,355	6,355	---	6,355	---	
146+00	-	157+63	STH 47	1,163	1,163	---	---	1,163	---	
157+63	-	212+12	STH 47	5,449	5,449	5,449	---	5,449	---	
198+00	-	220+00	STH 47	---	---	---	---	---	2,200	0060
215+66	-	221+50	STH 47	584	584	584	---	584	---	
10+98	-	11+33	WARRINGTON RD	35	35	35	---	35	---	
12+15	-	14+38	WARRINGTON RD	223	223	223	---	223	---	
10+37	-	11+34	CTH VV (S)	97	97	97	---	97	---	
10+46	-	11+20	RABBIT RIDGE RD	74	74	74	---	74	---	
CATEGORY 0010 SUBTOTALS				13,980	13,980	12,817	1	13,980	---	
CATEGORY 0060 SUBTOTALS				---	---	---	---	---	2,200	
PROJECT 9650-17-70 TOTAL				**13,980**	**13,980**	**12,817**	**1**	**13,980**	**2,200**	

TEMPORARY TRAFFIC SIGNALS

STAGE	PROJECT	LOCATION	661.0100 LS	CATEGORY
1	9650-17-70	C-73-0004	1	0010
2	9650-17-61	STRUCTURE B-73-0004	1	0010
5	9650-17-70	CULVERT @ STA 175+75	1	0010
5	9650-17-70	CULVERT @ STA 200+35	1	0010
PROJECT 9650-17-61 TOTAL			**1**	
PROJECT 9650-17-70 TOTAL			**3**	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

3

PULL BOXES

STAGE	PULL BOX NO.	LOCATION	653.0164 PULL BOXES NON-CONDUCTIVE 24x42-INCH EACH	CATEGORY #
3				
	PB1	103+00, 46' LT	1	0030
	PB2	102+51, 46' LT	1	0030
	PB5	103+10, 32' LT	1	0030
	PB6	103+28, 21' LT	1	0030
	STAGE 3 SUBTOTAL CATEGORY 0030		**4**	
4				
	PB3	102+50, 32' RT	1	0030
	PB4	103+17, 46' RT	1	0030
	PB7	103+28, 31' RT	1	0030
	PB8	111+87, 34' RT	1	0030
	PB9	112+47, 44' RT	1	0030
	PB10	125+85, 32 RT	1	0030
	PB11	126+50, 43' RT	1	0030
	PB12	129+83, 51 RT	1	0030
	PB13	130+37, 42' RT	1	0030
	PB14	131+78, 34' RT	1	0030
	PB15	132+41, 48' RT	1	0030
	PB16	139+57, 31' RT	1	0030
	PB17	140+02, 30' RT	1	0030
	STAGE 4 SUBTOTAL CATEGORY 0030		**13**	
5				
	PB18	164+25, 33' RT	1	0030
	PB19	165+05, 33' RT	1	0030
	PB20	171+24, 35' RT	1	0030
	PB21	171+89, 34' RT	1	0030
	PB22	178+38, 33' RT	1	0030
	PB23	178+52, 21' RT	1	0030
	PB24	207+97, 52' RT	1	0060
	PB25	208+39, 54' RT	1	0060
	PB26	209+44, 45' RT	1	0060
	PB27	219+89, 38' RT	1	0060
	PB28	220+15, 40' RT	1	0060
	PB29	220+78, 40' RT	1	0060
	PB30	220+79, 38' LT	1	0060
	STAGE 5 SUBTOTAL CATEGORY 0030		**6**	
	STAGE 5 SUBTOTAL CATEGORY 0060		**7**	
	PROJECT 9650-10-70 TOTAL CATEGORY 0030		**23**	
	PROJECT 9650-10-70 TOTAL CATEGORY 0060		**7**	

3

ELECTRICAL SERVICE

STAGE	CONTROL CABINET NO.	LOCATION	656.0200.01 ELECTRICAL SERVICE METER BREAKER PEDESTAL L.S.	656.0200.02 ELECTRICAL SERVICE METER BREAKER PEDESTAL L.S.	656.0200.03 ELECTRICAL SERVICE METER BREAKER PEDESTAL L.S.	656.0200.04 ELECTRICAL SERVICE METER BREAKER PEDESTAL L.S.	656.0200.05 ELECTRICAL SERVICE METER BREAKER PEDESTAL L.S.	CATEGORY #
3								
	CB1	STH 47 & WARRINGTON RD	1	---	---	---	---	0030
	STAGE 3 SUBTOTAL CATEGORY 0030		**1**	**0**	**0**	**0**	**0**	
4								
	CB2	STH 47 & TRIBAL OFFICE LOOP	---	1	---	---	---	0030
	STAGE 4 SUBTOTAL CATEGORY 0030		**0**	**1**	**0**	**0**	**0**	
5								
	CB3	STH 47 & LYONS RD	---	---	1	---	---	0030
	CB4	STH 47 & STH 55	---	---	---	1	---	0060
	CB5	STH 47 & WOLF RIVER DR	---	---	---	---	1	0060
	STAGE 5 SUBTOTAL CATEGORY 0030		**0**	**0**	**1**	**0**	**0**	
	STAGE 5 SUBTOTAL CATEGORY 0060		**0**	**0**	**0**	**1**	**1**	
	PROJECT 9650-10-70 TOTAL CATEGORY 0030		**1**	**1**	**1**	**0**	**0**	
	PROJECT 9650-10-70 TOTAL CATEGORY 0060		**0**	**0**	**0**	**1**	**1**	

LIGHTING CONTROL CABINET

STAGE	LIGHTING CABINET NO.	LOCATION	654.0230 CONCRETE CONTROL CABINET BASE TYPE L30 EACH	659.2130 LIGHTING CONTROL CABINETS 120/240 30-INCH EACH	SPV.0060.03 LIGHTING CONTROL CABINET 120/240 30-INCH SPECIAL EACH	CATEGORY #
3						
	CB1	103+13, 46' LT	1	---	---	0030
	STAGE 3 SUBTOTAL CATEGORY 0030		**1**	**0**	**0**	
4						
	CB1	103+13, 46' LT	---	---	1	0030
	CB2	139+86, 29' RT	1	---	1	0030
	STAGE 4 SUBTOTAL CATEGORY 0030		**1**	**0**	**2**	
5						
	CB3	178+62, 34' RT	1	---	1	0030
	CB4	208+13, 51' RT	1	1	---	0060
	CB5	219+99, 60' RT	1	1	---	0060
	STAGE 5 SUBTOTAL CATEGORY 0030		**1**	**0**	**1**	
	STAGE 5 SUBTOTAL CATEGORY 0060		**2**	**2**	**0**	
	PROJECT 9650-10-70 TOTAL CATEGORY 0030		**3**	**0**	**3**	
	PROJECT 9650-10-70 TOTAL CATEGORY 0060		**2**	**2**	**0**	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

LIGHTING EQUIPMENT

STAGE	LIGHT POLE BASE NO.	LOCATION	654.0105 CONCRETE BASES TYPE 5 EACH	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	659.1120 LUMINAIRES UTILITY LED B EACH	SPV.0060.02 LIGHT POLE TYPE 5 SPECIAL EACH	CATEGORY #
4									
	L-0001	84+49, 22' RT	1	1	1	1	1	---	0030
	L-0002	86+28, 22' RT	1	1	1	1	1	---	0030
	L-0003	88+08, 22' RT	1	1	1	1	1	---	0030
	L-0004	89+88, 22' RT	1	1	1	1	1	---	0030
	L-0005	91+68, 22' RT	1	1	---	1	1	1	0030
	L-0006	93+51, 22' RT	1	1	---	1	1	1	0030
	L-0007	95+35, 22' RT	1	1	---	1	1	1	0030
	L-0008	97+13, 22' RT	1	1	---	1	1	1	0030
	L-0009	98+96, 22' RT	1	1	---	1	1	1	0030
	L-0010	100+76, 22' RT	1	1	---	1	1	1	0030
	L-0011	102+41, 32' RT	1	1	---	1	1	1	0030
	L-0012	104+36, 22' RT	1	1	---	1	1	1	0030
	L-0013	106+16, 22' RT	1	1	---	1	1	1	0030
	L-0014	107+89, 22' RT	1	1	---	1	1	1	0030
	L-0015	109+71, 22' RT	1	1	---	1	1	1	0030
	L-0016	111+57, 22' RT	1	1	---	1	1	1	0030
	L-0017	113+37, 22' RT	1	1	1	1	1	---	0030
	L-0018	115+16, 22' RT	1	1	1	1	1	---	0030
	L-0019	116+97, 22' RT	1	1	1	1	1	---	0030
	L-0020	118+78, 22' RT	1	1	1	1	1	---	0030
	L-0021	120+57, 21' RT	1	1	1	1	1	---	0030
	L-0022	122+42, 21' RT	1	1	1	1	1	---	0030
	L-0023	124+17, 21' RT	1	1	1	1	1	---	0030
	L-0024	125+68, 21' RT	1	1	1	1	1	---	0030
	L-0025	127+45, 22' RT	1	1	1	1	1	---	0030
	L-0026	129+21, 21' RT	1	1	1	1	1	---	0030
	L-0027	130+97, 22' RT	1	1	1	1	1	---	0030
	L-0028	132+73, 22' RT	1	1	1	1	1	---	0030
	L-0029	134+50, 22' RT	1	1	1	1	1	---	0030
	L-0030	136+31, 29' RT	1	1	1	1	1	---	0030
	L-0031	138+13, 26' RT	1	1	1	1	1	---	0030
	L-0032	139+95, 26' RT	1	1	1	1	1	---	0030
	L-0033	141+76, 22' RT	1	1	1	1	1	---	0030
	L-0034	143+56, 22' RT	1	1	1	1	1	---	0030
	L-0035	145+36, 22' RT	1	1	1	1	1	---	0030
	L-0036	147+14, 22' RT	1	1	---	1	1	1	0030
	L-0037	148+79, 22' RT	1	1	---	1	1	1	0030
	L-0038	150+53, 22' RT	1	1	---	1	1	1	0030
	L-0039	152+33, 22' RT	1	1	---	1	1	1	0030
	L-0040	153+82, 22' RT	1	1	---	1	1	1	0030
STAGE 3 SUBTOTAL CATEGORY 0030			**40**	**40**	**23**	**40**	**40**	**17**	

LIGHTING EQUIPMENT REMOVAL

STAGE	LIGHT POLE BASE NO.	LOCATION	SPV.0060.01 SALVAGE EXISTING LIGHT POLE ASSEMBLY EACH
4			
	LP1	EXISTING	1
	LP2	EXISTING	1
	LP3	EXISTING	1
	LP4	EXISTING	1
	LP5	EXISTING	1
	LP6	EXISTING	1
	LP7	EXISTING	1
	LP8	EXISTING	1
	LP9	EXISTING	1
	LP10	EXISTING	1
	LP11	EXISTING	1
	LP12	EXISTING	1
	LP13	EXISTING	1
	STAGE 4 SUBTOTAL		**13**
PROJECT 9650-10-70 TOTAL CATEGORY 0030			**13**

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

LIGHTING EQUIPMENT (CONT.)

STAGE	LIGHT POLE BASE NO.	LOCATION	654.0105 CONCRETE BASES TYPE 5 EACH	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	659.1120 LUMINAIRES UTILITY LED B EACH	SPV.0060.02 LIGHT POLE TYPE 5 SPECIAL EACH	CATEGORY #
5									
	L-0041	155+93, 22' RT	1	1	---	1	1	1	0030
	L-0042	157+73, 21' RT	1	1	---	1	1	1	0030
	L-0043	159+55, 22' RT	1	1	---	1	1	1	0030
	L-0044	161+33, 22' RT	1	1	---	1	1	1	0030
	L-0045	163+12, 22' RT	1	1	---	1	1	1	0030
	L-0046	165+27, 22' RT	1	1	1	1	1	---	0030
	L-0047	167+05, 22' RT	1	1	1	1	1	---	0030
	L-0048	168+85, 26' RT	1	1	1	1	1	---	0030
	L-0049	170+65, 26' RT	1	1	1	1	1	---	0030
	L-0050	172+45, 22' RT	1	1	1	1	1	---	0030
	L-0051	174+25, 22' RT	1	1	1	1	1	---	0030
	L-0052	176+11, 26' RT	1	1	1	1	1	---	0030
	L-0053	177+85, 26' RT	1	1	1	1	1	---	0030
	L-0054	179+65, 22' RT	1	1	1	1	1	---	0030
	L-0055	181+49, 22' RT	1	1	1	1	1	---	0030
	L-0056	183+25, 22' RT	1	1	1	1	1	---	0030
	L-0057	185+04, 22' RT	1	1	1	1	1	---	0030
	L-0058	186+84, 22' RT	1	1	1	1	1	---	0030
	L-0059	188+64, 22' RT	1	1	1	1	1	---	0030
	L-0060	190+44, 21' RT	1	1	1	1	1	---	0030
	L-0061	192+24, 27' RT	1	1	1	1	1	---	0030
	L-0062	194+04, 31' RT	1	1	1	1	1	---	0030
	L-0063	195+83, 42' RT	1	1	1	1	1	---	0030
	L-0064	197+63, 36' RT	1	1	1	1	1	---	0030
	L-0065	199+43, 32' RT	1	1	1	1	1	---	0060
	L-0066	201+22, 26' RT	1	1	1	1	1	---	0060
	L-0067	203+06, 25' RT	1	1	1	1	1	---	0060
	L-0068	204+77, 27' RT	1	1	1	1	1	---	0060
	L-0069	206+64, 34' RT	1	1	1	1	1	---	0060
	L-0070	208+50, 47' RT	1	1	1	1	1	---	0060
	L-0071	210+42, 31' RT	1	1	1	1	1	---	0060
	L-0072	212+43, 30' RT	1	1	1	1	1	---	0060
	L-0073	215+70, 27' RT	1	1	1	1	1	---	0060
	L-0074	217+49, 33' RT	1	1	1	1	1	---	0060
	L-0075	219+29, 32' RT	1	1	1	1	1	---	0060
	L-0076	220+25, 51' RT	1	1	1	1	1	---	0060
	L-0077	221+00, 21' RT	1	1	1	1	1	---	0060
	L-0078	220+50, 81' LT	1	1	1	1	1	---	0060
	STAGE 5 SUBTOTAL CATEGORY 0030		**24**	**24**	**19**	**24**	**24**	**5**	
	STAGE 5 SUBTOTAL CATEGORY 0060		**14**	**14**	**14**	**14**	**14**	**0**	
PROJECT 9650-10-70 TOTAL CATEGORY 0030			**64**	**64**	**42**	**64**	**64**	**22**	
PROJECT 9650-10-70 TOTAL CATEGORY 0060			**14**	**14**	**14**	**14**	**14**	**0**	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

LIGHTING CONDUIT & ELECTRICAL WIRE

STAGE	LOC.	TO	LOC.	LINEAR DISTANCE	NUMBER OF CONDUITS	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH L.F.	IN CONDUIT RUN WIRE SLACK LF	IN CONDUIT RUN NUMBER OF WIRES (INCLUDING GROUND WIRE)	#12 AWG IN LIGHT POLE LENGTH OF WIRE IN POLE	#12 AWG IN LIGHT POLE NUMBER OF WIRES (INCLUDING GROUND WIRE)	#12 AWG IN LIGHT POLE LENGTH OF FESTOON WIRE IN POLE	#12 AWG IN LIGHT POLE NUMBER OF FESTOON RECEPTACLE WIRES (INCLUDING GROUND WIRE)	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG L.F.	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG L.F.	655.0630 ELECTRICAL WIRE LIGHTING 4 AWG L.F.	655.0635 ELECTRICAL WIRE LIGHTING 2 AWG L.F.	CATEGORY #
3																		
	CB1		PB1	14	2	---	28	---	---	---	---	---	---	---	---	---	---	0030
	PB1		PB2	49	2	98	---	---	---	---	---	---	---	---	---	---	---	0030
	PB2		PB3	77	2	154	---	---	---	---	---	---	---	---	---	---	---	0030
	CB1		PB6	29	2	---	58	---	---	---	---	---	---	---	---	---	---	0030
	PB6		SB2	16	1	16	---	---	---	---	---	---	---	---	---	---	---	0030
	PB6		PB7	52	1	52	---	---	---	---	---	---	---	---	---	---	---	0030
	CB1		PB5	15	2	---	30	---	---	---	---	---	---	---	---	---	---	0030
	PB5		PB4	78	2	156	---	---	---	---	---	---	---	---	---	---	---	0030
			STAGE 3 SUBTOTAL CATEGORY 0030			476	116							0	0	0	0	
4																		
	CB1		PB1	14	---	---	---	25	5	---	---	---	---	---	195	---	---	0030
	CB1		PB1	14	---	---	---	25	2	---	---	---	---	---	---	---	78	0030
	PB1		PB2	49	---	---	---	34	5	---	---	---	---	---	415	---	---	0030
	PB1		PB2	49	---	---	---	34	2	---	---	---	---	---	---	---	166	0030
	PB2		PB3	77	---	---	---	34	5	---	---	---	---	---	555	---	---	0030
	PB2		PB3	77	---	---	---	34	2	---	---	---	---	---	---	---	222	0030
	PB3		L-0011	8	1	8	---	22	5	40	3	---	---	120	150	---	---	0030
	PB3		L-0011	8	---	---	---	22	2	---	---	20	3	60	---	---	60	0030
	L-0011		L-0010	166	1	166	---	10	5	40	3	---	---	120	880	---	---	0030
	L-0011		L-0010	166	---	---	---	10	2	---	---	20	3	60	---	---	352	0030
	L-0010		L-0009	180	1	180	---	10	5	40	3	---	---	120	950	---	---	0030
	L-0010		L-0009	180	---	---	---	10	2	---	---	20	3	60	---	---	380	0030
	L-0009		L-0008	183	1	183	---	10	5	40	3	---	---	120	965	---	---	0030
	L-0009		L-0008	183	---	---	---	10	2	---	---	20	3	60	---	---	386	0030
	L-0008		L-0007	177	1	177	---	10	5	40	3	---	---	120	935	---	---	0030
	L-0008		L-0007	177	---	---	---	10	2	---	---	20	3	60	---	---	374	0030
	L-0007		L-0006	182	1	182	---	10	5	40	3	---	---	120	960	---	---	0030
	L-0007		L-0006	182	---	---	---	10	2	---	---	20	3	60	---	---	384	0030

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

LIGHTING CONDUIT & ELECTRICAL WIRE (CONT.)

STAGE	LOC.	TO	LOC.	LINEAR DISTANCE	NUMBER OF CONDUITS	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH L.F.	IN CONDUIT RUN		#12 AWG IN LIGHT POLE				655.0610 ELECTRICAL WIRE LIGHTING 12 AWG L.F.	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG L.F.	655.0630 ELECTRICAL WIRE LIGHTING 4 AWG L.F.	655.0635 ELECTRICAL WIRE LIGHTING 2 AWG L.F.	CATEGORY #
								WIRE SLACK LF	NUMBER OF WIRES (INCLUDING GROUND WIRE)	LENGTH OF WIRE IN POLE	NUMBER OF WIRES (INCLUDING GROUND WIRE)	LENGTH OF FESTOON WIRE IN POLE	NUMBER OF FESTOON RECEPTACLE WIRES (INCLUDING GROUND WIRE)					
4																		
	L-0006		L-0005	180	1	180	---	10	5	40	3	---	---	120	950	---	---	0030
	L-0006		L-0005	180	---	---	---	10	2	---	---	20	3	60	---	---	380	0030
	L-0005		L-0004	180	1	180	---	10	5	40	3	---	---	120	950	---	---	0030
	L-0004		L-0003	180	1	180	---	10	5	40	3	---	---	120	950	---	---	0030
	L-0003		L-0002	180	1	180	---	10	5	40	3	---	---	120	950	---	---	0030
	L-0002		L-0001	180	1	180	---	10	3	40	3	---	---	120	570	---	---	0030
	CB1		PB6	29	---	---	---	25	3	---	---	---	---	---	162	---	---	0030
	PB6		SB2	16	---	---	---	22	6	---	---	---	---	---	228	---	---	0030
	PB6		PB7	52	---	---	---	34	3	---	---	---	---	---	258	---	---	0030
	PB7		SB1	8	1	8	---	22	3	---	---	---	---	---	90	---	---	0030
	CB1		PB5	15	---	---	---	25	5	---	---	---	---	---	200	---	---	0030
	CB1		PB5	15	---	---	---	25	2	---	---	---	---	---	---	80	---	0030
	PB5		PB4	78	---	---	---	34	5	---	---	---	---	---	560	---	---	0030
	PB5		PB4	78	---	---	---	34	2	---	---	---	---	---	---	224	---	0030
	PB4		L-0012	122	1	122	---	22	5	40	3	---	---	120	720	---	---	0030
	PB4		L-0012	122	---	---	---	22	2	---	---	20	3	60	---	288	---	0030
	L-0012		L-0013	180	1	180	---	10	5	40	3	---	---	120	950	---	---	0030
	L-0012		L-0013	180	---	---	---	10	2	---	---	20	3	60	---	380	---	0030
	L-0013		L-0014	173	1	173	---	10	5	40	3	---	---	120	915	---	---	0030
	L-0013		L-0014	173	---	---	---	10	2	---	---	20	3	60	---	366	---	0030
	L-0014		L-0015	181	1	181	---	10	5	40	3	---	---	120	955	---	---	0030
	L-0014		L-0015	181	---	---	---	10	2	---	---	20	3	60	---	382	---	0030
	L-0015		L-0016	186	1	186	---	10	5	40	3	---	---	120	980	---	---	0030
	L-0015		L-0016	186	---	---	---	10	2	---	---	20	3	60	---	392	---	0030
	L-0016		PB8	32	1	32	---	22	5	---	---	---	---	---	270	---	---	0030
	PB8		PB9	61	2	122	---	34	5	---	---	---	---	---	475	---	---	0030
	PB9		L-0017	100	1	100	---	22	5	40	3	---	---	120	610	---	---	0030
	L-0017		L-0018	180	1	180	---	10	5	40	3	---	---	120	950	---	---	0030
	L-0018		L-0019	180	1	180	---	10	5	40	3	---	---	120	950	---	---	0030
	L-0019		L-0020	180	1	180	---	10	3	40	3	---	---	120	570	---	---	0030

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

LIGHTING CONDUIT & ELECTRICAL WIRE (CONT.)

STAGE	LOC.	TO LOC.	LINEAR DISTANCE	NUMBER OF CONDUITS	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH L.F.	IN CONDUIT RUN WIRE SLACK LF	IN CONDUIT RUN NUMBER OF WIRES (INCLUDING GROUND WIRE)	#12 AWG IN LIGHT POLE LENGTH OF WIRE IN POLE	#12 AWG IN LIGHT POLE NUMBER OF WIRES (INCLUDING GROUND WIRE)	#12 AWG IN LIGHT POLE LENGTH OF FESTOON WIRE IN POLE	#12 AWG IN LIGHT POLE NUMBER OF FESTOON RECEPTACLE WIRES (INCLUDING GROUND WIRE)	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG L.F.	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG L.F.	655.0630 ELECTRICAL WIRE LIGHTING 4 AWG L.F.	655.0635 ELECTRICAL WIRE LIGHTING 2 AWG L.F.	CATEGORY #
4																	
	CB2	PB16	12	3	---	36	25	5	---	---	---	---	---	185	---	---	0030
	PB16	L-0031	158	1	158	---	22	5	40	3	---	---	120	900	---	---	0030
	L-0031	L-0030	180	1	180	---	10	5	40	3	---	---	120	950	---	---	0030
	L-0030	L-0029	180	1	180	---	10	5	40	3	---	---	120	950	---	---	0030
	L-0029	L-0028	180	1	180	---	10	5	40	3	---	---	120	950	---	---	0030
	L-0028	PB15	42	1	42	---	22	5	---	---	---	---	---	320	---	---	0030
	PB15	PB14	68	2	12	---	34	5	---	---	---	---	---	510	---	---	0030
	PB14	L-0027	84	1	84	---	22	5	40	3	---	---	120	530	---	---	0030
	L-0027	PB13	67	1	67	---	22	5	---	---	---	---	---	445	---	---	0030
	PB13	PB12	54	2	108	---	34	5	---	---	---	---	---	440	---	---	0030
	PB12	L-0026	76	1	76	---	22	5	40	3	---	---	120	490	---	---	0030
	L-0026	L-0025	179	1	179	---	10	5	40	3	---	---	120	945	---	---	0030
	L-0025	PB11	102	1	102	---	22	5	---	---	---	---	---	620	---	---	0030
	PB11	PB10	68	2	136	---	34	5	---	---	---	---	---	510	---	---	0030
	PB10	L-0024	21	1	21	---	22	5	40	3	---	---	120	215	---	---	0030
	L-0024	L-0023	151	1	151	---	10	5	40	3	---	---	120	805	---	---	0030
	L-0023	L-0022	175	1	175	---	10	5	40	3	---	---	120	925	---	---	0030
	L-0022	L-0021	185	1	185	---	10	3	40	3	---	---	120	585	---	---	0030
	CB2	PB17	17	3	---	51	25	5	---	---	---	---	---	210	---	---	0030
	CB2	PB17	17	---	---	---	25	2	---	---	---	---	---	---	84	---	0030
	PB17	L-0032	8	1	8	---	22	5	40	3	---	---	120	150	---	---	0030
	PB17	L-0033	173	1	173	---	22	5	40	3	---	---	120	975	---	---	0030
	PB17	L-0033	173	---	---	---	22	2	---	---	---	---	---	---	390	---	0030
	L-0033	L-0034	180	1	180	---	10	5	40	3	---	---	120	950	---	---	0030
	L-0033	L-0034	180	---	---	---	10	2	---	---	---	---	---	---	380	---	0030
	L-0034	L-0035	180	1	180	---	10	5	40	3	---	---	120	950	---	---	0030
	L-0034	L-0035	180	---	---	---	10	2	---	---	---	---	---	---	380	---	0030
	L-0035	L-0036	180	1	180	---	10	5	40	3	---	---	120	950	---	---	0030
	L-0035	L-0036	180	---	---	---	10	2	---	---	20	3	60	---	380	---	0030
	L-0036	L-0037	175	1	175	---	10	5	40	3	---	---	120	925	---	---	0030
4																	
	L-0036	L-0037	175	---	---	---	10	2	---	---	20	3	60	---	370	---	0030
	L-0037	L-0038	179	1	179	---	10	5	40	3	---	---	120	945	---	---	0030
	L-0037	L-0038	179	---	---	---	10	2	---	---	20	3	60	---	378	---	0030
	L-0038	L-0039	180	1	180	---	10	5	40	3	---	---	120	950	---	---	0030
	L-0038	L-0039	180	---	---	---	10	2	---	---	20	3	60	---	380	---	0030
	L-0039	L-0040	149	1	149	---	10	3	40	3	---	---	120	477	---	---	0030
	L-0039	L-0040	149	---	---	---	10	2	---	---	20	3	60	---	318	---	0030
	STAGE 4 SUBTOTAL CATEGORY 0030				**6,880**	**87**							**5,820**	**38,975**	**5,172**	**2,782**	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

LIGHTING CONDUIT & ELECTRICAL WIRE (CONT.)

STAGE	LOC.	TO LOC.	LINEAR DISTANCE	NUMBER OF CONDUITS	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH L.F.	IN CONDUIT RUN WIRE SLACK LF	IN CONDUIT RUN NUMBER OF WIRES (INCLUDING GROUND WIRE)	#12 AWG IN LIGHT POLE LENGTH OF WIRE IN POLE	#12 AWG IN LIGHT POLE NUMBER OF WIRES (INCLUDING GROUND WIRE)	#12 AWG IN LIGHT POLE LENGTH OF FESTOON WIRE IN POLE	#12 AWG IN LIGHT POLE NUMBER OF FESTOON RECEPTACLE WIRES (INCLUDING GROUND WIRE)	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG L.F.	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG L.F.	655.0630 ELECTRICAL WIRE LIGHTING 4 AWG L.F.	655.0635 ELECTRICAL WIRE LIGHTING 2 AWG L.F.	CATEGORY #
5																	
	CB3	PB22	26	3	---	78	25	5	---	---	---	---	---	255	---	---	0030
	CB3	PB22	26	---	---	---	25	2	---	---	---	---	---	---	102	---	0030
	PB22	L-0052	232	1	232	---	22	5	40	3	---	---	120	1270	---	---	0030
	PB22	L-0052	232	---	---	---	22	2	---	---	---	---	---	---	508	---	0030
	L-0052	L-0051	186	1	186	---	10	5	40	3	---	---	120	980	---	---	0030
	L-0052	L-0051	186	---	---	---	10	2	---	---	---	---	---	---	392	---	0030
	L-0051	L-0050	180	1	180	---	10	5	40	3	---	---	120	950	---	---	0030
	L-0051	L-0050	180	---	---	---	10	2	---	---	---	---	---	---	380	---	0030
	L-0050	PB21	58	1	58	---	22	5	---	---	---	---	---	400	---	---	0030
	L-0050	PB21	58	---	---	---	22	2	---	---	---	---	---	---	160	---	0030
	PB21	PB20	64	2	128	---	34	5	---	---	---	---	---	490	---	---	0030
	PB21	PB20	64	---	---	---	34	2	---	---	---	---	---	---	196	---	0030
	PB20	L-0049	60	1	60	---	22	5	40	3	---	---	120	410	---	---	0030
	PB20	L-0049	60	---	---	---	22	2	---	---	---	---	---	---	164	---	0030
	L-0049	L-0048	180	1	180	---	10	5	40	3	---	---	120	950	---	---	0030
	L-0049	L-0048	180	---	---	---	10	2	---	---	---	---	---	---	380	---	0030
	L-0048	L-0047	180	1	180	---	10	5	40	3	---	---	120	950	---	---	0030
	L-0048	L-0047	180	---	---	---	10	2	---	---	---	---	---	---	380	---	0030
5	L-0047	L-0046	180	1	180	---	10	5	40	3	---	---	120	950	---	---	0030
	L-0047	L-0046	180	---	---	---	10	2	---	---	---	---	---	---	380	---	0030
	L-0046	PB19	25	1	25	---	22	5	---	---	---	---	---	235	---	---	0030
	L-0046	PB19	25	---	---	---	22	2	---	---	---	---	---	---	94	---	0030
	PB19	PB18	81	2	162	---	34	5	---	---	---	---	---	575	---	---	0030
	PB19	PB18	81	---	---	---	34	2	---	---	---	---	---	---	230	---	0030
	PB18	L-0045	114	1	114	---	22	5	40	3	---	---	120	680	---	---	0030
	PB18	L-0045	114	---	---	---	22	2	---	---	20	3	60	---	272	---	0030
	L-0045	L-0044	180	1	180	---	10	5	40	3	---	---	120	950	---	---	0030
	L-0045	L-0044	180	---	---	---	10	2	---	---	20	3	60	---	380	---	0030
	L-0044	L-0043	178	1	178	---	10	5	40	3	---	---	120	940	---	---	0030
	L-0044	L-0043	178	---	---	---	10	2	---	---	20	3	60	---	376	---	0030
	L-0043	L-0042	182	1	182	---	10	5	40	3	---	---	120	960	---	---	0030
	L-0043	L-0042	182	---	---	---	10	2	---	---	20	3	60	---	384	---	0030
	L-0042	L-0041	180	1	180	---	10	3	40	3	---	---	120	570	---	---	0030
	L-0042	L-0041	180	---	---	---	10	2	---	---	20	3	60	---	380	---	0030
	CB3	PB23	16	3	---	48	25	5	---	---	---	---	---	205	---	---	0030
	PB23	L-0053	67	1	67	---	22	5	40	3	---	---	120	445	---	---	0030
	PB23	L-0054	113	1	113	---	22	5	40	3	---	---	120	675	---	---	0030
	L-0054	L-0055	185	1	185	---	10	5	40	3	---	---	120	975	---	---	0030

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

LIGHTING CONDUIT & ELECTRICAL WIRE (CONT.)

STAGE	LOC.	TO LOC.	LINEAR DISTANCE	NUMBER OF CONDUITS	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH L.F.	IN CONDUIT RUN WIRE SLACK LF	IN CONDUIT RUN NUMBER OF WIRES (INCLUDING GROUND WIRE)	#12 AWG IN LIGHT POLE LENGTH OF WIRE IN POLE	#12 AWG IN LIGHT POLE NUMBER OF WIRES (INCLUDING GROUND WIRE)	#12 AWG IN LIGHT POLE LENGTH OF FESTOON WIRE IN POLE	#12 AWG IN LIGHT POLE NUMBER OF FESTOON RECEPTACLE WIRES (INCLUDING GROUND WIRE)	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG L.F.	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG L.F.	655.0630 ELECTRICAL WIRE LIGHTING 4 AWG L.F.	655.0635 ELECTRICAL WIRE LIGHTING 2 AWG L.F.	CATEGORY #
	L-0055	L-0056	177	1	177	---	10	5	40	3	---	---	120	935	---	---	0030
	L-0056	L-0057	180	1	180	---	10	5	40	3	---	---	120	950	---	---	0030
	L-0057	L-0058	180	1	180	---	10	5	40	3	---	---	120	950	---	---	0030
	L-0058	L-0059	180	1	180	---	10	5	40	3	---	---	120	950	---	---	0030
	L-0059	L-0060	180	1	180	---	10	3	40	3	---	---	120	570	---	---	0030
	CB4	PB24	16	3	---	48	25	5	---	---	---	---	---	205	---	---	0060
	PB24	L-0069	130	1	130	---	22	5	40	3	---	---	120	760	---	---	0060
	L-0069	L-0068	185	1	185	---	10	5	40	3	---	---	120	975	---	---	0060
	L-0068	L-0067	169	1	169	---	10	5	40	3	---	---	120	895	---	---	0060
	L-0067	L-0066	181	1	181	---	10	5	40	3	---	---	120	955	---	---	0060
	L-0066	L-0065	180	1	180	---	10	5	40	3	---	---	120	950	---	---	0060
	L-0065	L-0064	180	1	180	---	10	5	40	3	---	---	120	950	---	---	0060
	L-0064	L-0063	180	1	180	---	10	5	40	3	---	---	120	950	---	---	0030
5	L-0063	L-0062	180	1	180	---	10	5	40	3	---	---	120	950	---	---	0030
	L-0062	L-0061	181	1	181	---	10	3	40	3	---	---	120	573	---	---	0030
	CB4	PB25	25	3	---	75	25	5	---	---	---	---	---	250	---	---	0060
	PB25	L-0070	14	1	14	---	22	5	40	3	---	---	120	180	---	---	0060
	PB25	PB26	104	2	208	---	34	5	---	---	---	---	---	690	---	---	0060
	PB26	L-0071	97	1	97	---	22	5	40	3	---	---	120	595	---	---	0060
	L-0071	L-0072	200	1	200	---	10	3	40	3	---	---	120	630	---	---	0060
	CB5	PB27	24	3	---	72	25	5	---	---	---	---	---	245	---	---	0060
	PB27	L-0075	63	1	63	---	22	5	40	3	---	---	120	425	---	---	0060
	L-0075	L-0074	180	1	180	---	10	5	40	3	---	---	120	950	---	---	0060
	L-0074	L-0073	180	1	180	---	10	3	40	3	---	---	120	570	---	---	0060
	CB5	PB28	25	3	---	75	25	5	---	---	---	---	---	250	---	---	0060
	PB28	L-0076	15	1	15	---	22	3	40	3	---	---	120	111	---	---	0060
	PB28	PB29	63	2	126	---	34	3	---	---	---	---	---	291	---	---	0060
	PB29	L-0077	29	1	29	---	22	5	40	3	---	---	120	255	---	---	0060
	PB29	PB30	78	2	156	---	34	3	---	---	---	---	---	336	---	---	0060
	PB30	L-0078	51	1	51	---	22	3	40	3	---	---	120	219	---	---	0060
	STAGE 5 SUBTOTAL CATEGORY 0030				**4,208**	**126**							**3,060**	**21,643**	**5,158**	**0**	
	STAGE 5 SUBTOTAL CATEGORY 0060				**2,344**	**270**							**1,800**	**11,687**	**0**	**0**	
	PROJECT 9650-10-70 TOTAL CATEGORY 0030				**11,564**	**329**							**8,880**	**60,618**	**10,330**	**2,782**	
	PROJECT 9650-10-70 TOTAL CATEGORY 0060				**2,344**	**270**							**1,800**	**11,687**	**0**	**0**	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

3

RECTANGULAR RAPID FLASHING BEACON (RRFB) SYSTEM

STAGE	SIGNAL BASE NO.	LOCATION	654.0101 CONCRETE BASES TYPE 1 EACH	657.0100 PEDESTAL BASES EACH	657.0420 TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT EACH	658.0500 PEDESTRIAN PUSH BUTTONS EACH	SPV.0105.01 RECTANGULAR RAPID FLASHING BEACON SYSTEM STH 47 & WARRINGTON RD LS
3							
	SB1	103+36, 30' RT	1	---	---	---	---
STAGE 3 SUBTOTAL CATEGORY 0030			**1**	**0**	**0**	**0**	**0**
4							
	SB1	103+36, 30' RT	---	1	1	1	---
	SB2	103+44, 22' LT	1	1	1	1	1
STAGE 4 SUBTOTAL CATEGORY 0030			**1**	**2**	**2**	**2**	**1**
PROJECT 9650-10-70 TOTAL CATEGORY 0030			**2**	**2**	**2**	**2**	**1**

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

3

SAWING PAVEMENT

STATION		STATION	LOCATION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF
	82+46		CONCRETE SIDEWALK, LT/RT	--	10
	82+46		CONCRETE CURB AND GUTTER, LT/RT	--	4
	82+46		STH 47, CROSS	34	--
82+46	-	82+74	STH 47, RT	28	--
82+46	-	82+74	STH 47, LT	28	--
	82+74		STH 47, CROSS	25	--
	82+84		STH 47, CROSS	25	--
82+84	-	88+44	STH 47, LT	560	--
82+84	-	88+44	STH 47, RT	560	--
83+19	-	83+37	DODGE RD	127	--
	88+44		STH 47, CROSS	24	--
	88+53		STH 47, CROSS	24	--
88+53	-	91+12	STH 47, LT	259	--
88+53	-	91+12	STH 47, RT	259	--
	91+12		STH 47, CROSS	24	--
	91+22		STH 47, CROSS	24	--
91+22	-	93+57	STH 47, LT	235	--
91+22	-	93+57	STH 47, RT	235	--
92+16	-	92+41	DRIVEWAY, RT	25	--
	93+57		STH 47, CROSS	24	--
	93+67		STH 47, CROSS	24	--
93+67	-	94+15	STH 47, LT	48	--
93+67	-	94+15	STH 47, RT	48	--
	94+15		STH 47, CROSS	24	--
	94+25		STH 47, CROSS	24	--
94+25	-	97+15	STH 47, LT	290	--
94+25	-	97+15	STH 47, RT	290	--
94+95	-	95+20	DRIVEWAY, RT	25	--
	97+15		STH 47, CROSS	24	--
	97+25		STH 47, CROSS	24	--
97+25	-	100+11	STH 47, LT	286	--
97+25	-	100+11	STH 47, RT	286	--
	100+11		STH 47, CROSS	24	--
	100+21		STH 47, CROSS	24	--
100+21	-	103+43	STH 47, LT	322	--
100+21	-	103+43	STH 47, RT	322	--
101+51	-	101+72	DRIVEWAY, LT	21	--
10B+98	-	11B+37	SCHOOL ENTRANCE	130	--
12B+40	-	14B+38	WARRINGTON RD	432	--
	103+22		CONCRETE SIDEWALK RT	--	5
	103+43		STH 47, CROSS	24	--
	103+53		STH 47, CROSS	24	--
103+53	-	105+45	STH 47, LT	192	--
	SUBTOTAL			**5,428**	**19**

SAWING PAVEMENT (CONT.)

STATION		STATION	LOCATION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF
103+53	-	105+45	STH 47, RT	192	--
	105+45		STH 47, CROSS	13	--
	105+55		STH 47, COSS	13	--
105+55	-	107+95	STH 47, LT	240	--
105+55	-	107+95	STH 47, RT	240	--
106+66	-	107+13	DRIVEWAY, RT	47	--
	107+95		STH 47, CROSS	13	--
	108+05		STH 47, CROSS	13	--
108+05	-	109+80	STH 47, LT	175	--
108+05	-	109+80	STH 47, RT	175	--
	109+80		STH 47, CROSS	13	--
	109+90		STH 47, CROSS	24	--
109+90	-	113+06	STH 47, LT	316	--
109+90	-	113+06	STH 47, RT	316	--
110+53	-	110+86	DRIVEWAY, RT	33	--
111+21	-	111+43	DRIVEWAY, RT	22	--
10C+55	-	10C+88	CHIEF LITTLE WAVE RD	110	--
	113+06		STH 47, CROSS	24	--
	113+16		STH 47, CROSS	24	--
113+16	-	116+45	STH 47, LT	329	--
113+16	-	116+45	STH 47, RT	329	--
116+20	-	116+36	DRIVEWAY, RT	--	16
	116+45		STH 47, CROSS	24	--
	116+55		STH 47, CROSS	24	--
116+55	-	121+00	STH 47, RT	445	--
116+55	-	125+50	STH 47, LT	895	--
	9D+00		MORRIN ST, CROSS	23	--
9D+07	-	9D+78	MORRIN ST	195	--
9D+09	-	9D+29	DRIVEWAY, LT	20	--
	121+00		CONCRETE CURB AND GUTTER	--	2
	121+00		CONCRETE SIDEWALK	--	5
	125+50		STH 47, CROSS	27	--
	125+60		STH 47, CROSS	34	--
125+60	-	127+95	STH 47, CROSS	235	--
	1E+70		CHIEF CARRON ST, CROSS	34	--
126+85	-	127+95	STH 47, RT	112	--
	127+95		STH 47, CROSS	24	--
	128+05		STH 47, CROSS	24	--
128+05	-	10F+96	STH 47, RT / WOLF CT, RT	258	--
128+05	-	132+75	STH 47, LT	470	--
128+53	-	128+75	STH 47, RT	22	--
129+27	-	129+44	STH 47, LT	17	--
	10F+49		CONCRETE SIDEWALK, LT/RT	--	5
	SUBTOTAL			**5,544**	**28**

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

SAWING PAVEMENT (CONT.)

STATION		STATION	LOCATION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF
	10F+96		WOLF CT, CROSS	26	--
10F+96	-	132+00	STH 47, RT	287	--
	9G+19		BROOKS LN, CROSS	23	--
9G+19	-	9G+58	BROOKS LN	67	--
	10G+54		OUR CHILDRENS RD, CROSS	23	--
10G+64	-	10G+84	OUR CHILDRENS RD	62	--
	10G+84		CONCRETE SIDEWALK, LT	--	5
	10G+84		OUR CHILDRENS RD, CROSS	29	--
132+21	-	132+75	STH 47, LT	54	--
	132+75		STH 47, CROSS	24	--
	132+85		STH 47, CROSS	24	--
132+85	-	136+45	STH 47, LT	360	--
132+85	-	136+45	STH 47, RT	360	--
	136+45		STH 47, CROSS	15	--
	136+55		STH 47, CROSS	24	--
136+55	-	139+61	STH 47, LT	306	--
136+55	-	139+61	STH 47, RT	306	--
	139+61		STH 47, CROSS	24	--
	139+73		STH 47, CROSS	24	--
139+73	-	140+04	STH 47, LT	70	--
139+73	-	140+75	STH 47, RT	102	--
	9H+14		TRIBAL OFFICE LOOP RD (SOUTH), CROSS	24	--
140+24	-	140+75	STH 47, LT	83	--
	140+75		STH 47, CROSS	24	--
	140+85		STH 47, CROSS	24	--
140+85	-	146+00	STH 47, LT	517	--
140+85	-	146+00	STH 47, RT	524	--
144+48	-	144+72	DRIVEWAY, RT	24	--
	144+78		CONCRETE SIDEWALK, LT	--	3
145+47	-	145+77	CONCRETE SIDEWALK, RT	--	30
	146+19		CONCRETE SIDEWALK, LT	--	3
146+24	-	146+42	ASPHALT SIDEWALK, RT	18	--
147+39	-	147+66	DRIVEWAY, RT	27	--
	9I+19		TRIBAL OFFICE LOOP RD (NORTH), CROSS	35	--
149+54	-	149+67	DRIVEWAY, LT	--	13
149+88	-	150+01	DRIVEWAY, LT	--	13
151+56	-	152+07	DRIVEWAY, RT	51	--
152+37	-	154+00	DRIVEWAY, LT	163	--
	11J+34		CTH VV, CROSS	30	--
	155+36		CONCRETE SIDEWALK, RT	--	3
	156+26		CONCRETE SIDEWALK, RT	--	3
	156+60		CONCRETE SIDEWALK, LT	--	5
	8K+91		FAIRGROUNDS RD, CROSS	28	--
	SUBTOTAL			**3,782**	**78**

SAWING PAVEMENT (CONT.)

STATION		STATION	LOCATION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF
	8K+91		CONCRETE CURB AND GUTTER, LT/RT	--	4
157+63	-	163+12	STH 47, LT	566	--
157+63	-	163+28	STH 47, RT	565	--
	158+04		CONCRETE SIDEWALK, RT	--	3
	158+95		CONCRETE SIDEWALK, RT	--	3
	159+63		CONCRETE SIDEWALK, RT	--	3
	161+42		CONCRETE SIDEWALK, RT	--	4
	162+33		CONCRETE SIDEWALK, RT	--	5
163+23	-	163+48	DRIVEWAY, LT	25	--
163+99	-	164+24	DRIVEWAY, LT	25	--
	163+21		STH 47, CROSS	32	--
	163+33		STH 47, CROSS	42	--
163+40	-	11L+30	STH 47, RT	215	--
	11L+30		BLACKSMITH RD, CROSS	16	--
11L+30	-	165+07	BLACKSMITH RD, LT	141	--
163+24	-	165+10	STH 47, LT	186	--
	165+08		STH 47, CROSS	33	--
	165+19		STH 47, CROSS	26	--
165+19	-	167+73	STH 47, LT	254	--
165+19	-	167+93	STH 47, RT	274	--
	9M+05		LYONS RD, CROSS	20	--
9M+05	-	9M+63	LYONS RD, LT	52	--
9M+05	-	9M+74	LYONS RD, RT	89	--
	9M+68		LYONS RD (SOUTH), CROSS	36	--
	167+84		STH 47, CROSS	36	--
	167+97		STH 47, CROSS	36	--
168+06	-	171+41	STH 47, RT	347	--
	10N+37		RABBIT RIDGE, CROSS	29	--
	10N+47		RABBIT RIDGE, CROSS	18	--
10N+47	-	11N+20	RABBIT RIDGE, LT	75	--
10N+47	-	11N+20	RABBIT RIDGE, RT	75	--
167+85	-	175+57	STH 47, LT	772	--
171+70	-	175+57	STH 47, RT	399	--
	175+57		STH 47, CROSS	28	--
	176+14		STH 47, CROSS	30	--
176+18	-	185+20	STH 47, RT	902	--
	178+84		DRIVEWAY, RT	24	--
176+08	-	8O+70	STH 47, LT / LYONS RD (NORTH), RT	547	--
	8O+70		LYONS RD (NORTH), CROSS	21	--
179+85	-	180+06	DRIVEWAY, RT	22	--
9O+23	-	185+20	LYONS RD (NORTH), LT / STH 47, LT	490	--
	185+20		STH 47, CROSS	27	--
	185+30		STH 47, CROSS	27	--
	SUBTOTAL			**6,502**	**22**

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

SAWING PAVEMENT (CONT.)

STATION		STATION	LOCATION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF
185+30	-	188+79	STH 47, RT	349	--
185+30	-	188+76	STH 47, LT	346	--
188+77			STH 47, CROSS	27	--
187+87			STH 47, CROSS	27	--
188+89	-	189+62	STH 47, RT	73	--
188+86	-	189+42	STH 47, LT	56	--
189+53			STH 47, CROSS	35	--
189+92			STH 47, CROSS	41	--
190+05	-	191+18	STH 47, RT	113	--
189+75	-	191+06	STH 47, LT	136	--
191+15			STH 47, CROSS	29	--
191+26			STH 47, CROSS	29	--
191+29	-	195+24	STH 47, RT	395	--
192+20	-	192+62	DRIVEWAY, LT	42	--
193+90	-	194+66	DRIVEWAY, LT	81	--
191+21	-	195+49	STH 47, LT	428	--
195+48			STH 47, CROSS	38	--
195+58			STH 47, CROSS	38	--
195+59	-	195+86	STH 47, LT	28	--
196+66	-	197+12	COURTHOUSE LN, CROSS	46	--
197+93	-	200+21	STH 47, RT	228	--
197+77	-	200+20	STH 47, LT	243	--
200+20			STH 47, CROSS	29	--
200+52			STH 47, CROSS	29	--
200+52	-	207+68	STH 47, LT	724	--
200+53	-	205+92	STH 47, RT	537	--
208+54	-	208+82	COURTHOUSE LN, CROSS	32	--
208+76	-	209+21	STH 55, CROSS	44	--
210+36	-	212+12	STH 47, RT	177	--
215+66	-	219+06	STH 47, LT	343	--
215+80	-	219+57	STH 47, RT	380	--
12R+00			CTH VV (NORTH), CROSS	26	--
13N+68			OSHKOSH RD	24	--
221+50			STH 47, CROSS	33	--
SUBTOTAL				**5,206**	**--**
PROJECT 9650-17-70 TOTAL				**26,462**	**147**

LANE SHIFT

STAGE	LOCATION	SPV.0060.04 LANE SHIFT EACH	CATEGORY
1	C-73-0004	1	0050
3	CULVERT @ STA 139+67	1	0010
5	CULVERT @ STA 175+75	1	0010
5	CULVERT @ STA 200+35	2	0010
PROJECT 9650-17-70 TOTAL		**5**	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

WATER MAIN (CATEGORY 0040)

STAGE	STATION	LOCATION	SPV.0060.06 REMOVING WATER MAIN VALVE & VALVE BOX EACH	SPV.0060.07 CAP WATER MAIN TO REMAIN IN SERVICE EACH	SPV.0060.08 ABANDONING WATER MAIN VALVE BOX EACH	SPV.0060.09 SALVAGE HYDRANT EACH	SPV.0060.10 ADJUSTING WATER MAIN VALVE BOX EACH	SPV.0060.11 ADJUSTING HYDRANT EACH	SPV.0060.12 WATER MAIN GATE VALVE & BOX 6-INCH EACH	SPV.0060.13 TRACER WIRE ACCESS BOX EACH	SPV.0060.14 WATER MAIN COUPLING 6-INCH EACH	SPV.0060.15 WATER MAIN BEND 45° 6-INCH EACH	SPV.0060.16 WATER MAIN TAPPING SLEEVE 6 X 6-INCH EACH	SPV.0090.02 WATER MAIN 6-INCH LF
1														
	154+67	RT	---	---	1	---	---	---	---	---	---	---	---	---
	154+83	RT	---	---	---	---	1	---	---	---	---	---	---	---
	155+27	RT	---	---	1	---	---	---	---	---	---	---	---	---
	155+31	RT	---	---	1	---	---	---	---	---	---	---	---	---
	155+34	RT	---	---	1	---	---	---	---	---	---	---	---	---
	STAGE 1 SUBTOTALS		0	0	4	0	1	0	0	0	0	0	0	0
3														
	103+22	LT	---	---	---	---	---	---	---	---	---	4	---	---
	STAGE 3 SUBTOTALS		0	0	0	0	0	0	0	0	0	4	0	0
4														
	103+26	RT	---	---	---	---	1	---	---	---	---	---	---	---
	103+29	RT	---	1	---	1	---	---	1	1	---	---	1	5
	103+34	RT	1	---	---	---	---	---	---	---	---	---	---	---
	103+39	RT	---	---	---	---	---	---	1	---	---	---	---	---
	103+41	RT	---	---	---	---	---	---	---	---	---	1	---	---
	103+42	RT	---	---	---	---	---	---	---	---	---	1	---	---
	103+47	RT	---	---	---	---	---	---	---	---	---	1	---	---
	103+49	RT	---	---	---	---	---	---	---	---	---	1	---	---
	103+41 - 103+49	RT	---	---	---	---	---	---	---	---	---	---	---	11
	109+55	RT	---	---	---	---	1	---	---	---	---	---	---	---
	109+61	RT	---	---	---	1	---	---	1	1	1	---	---	5
	112+19	RT	---	---	---	---	1	---	---	---	---	---	---	---
	114+15	RT	1	---	---	1	---	---	1	1	---	---	---	---
	117+65	RT	---	---	---	---	1	---	---	---	---	---	---	---
	120+31	RT	---	---	---	---	1	---	---	---	---	---	---	---
	126+00	RT	---	---	---	---	1	---	---	---	---	---	---	---
	126+06	RT	---	---	---	---	1	---	---	---	---	---	---	---
	126+65	RT	---	---	---	---	1	---	---	---	---	---	---	---
	131+82	RT	---	---	---	---	1	---	---	---	---	---	---	---
	131+86	RT	---	---	---	---	1	---	---	---	---	---	---	---
	131+91	RT	---	---	---	---	1	---	---	---	---	---	---	---
	141+15	RT	---	---	---	---	1	---	---	---	---	---	---	---
	141+20	RT	---	---	---	---	---	1	---	---	---	---	---	---
	147+07	RT	---	---	1	---	---	---	---	---	---	---	---	---
	147+14	RT	---	---	---	---	1	---	---	---	---	---	---	---
	147+17	RT	---	---	---	---	1	---	---	---	---	---	---	---
	147+19	RT	---	---	---	---	1	---	---	---	---	---	---	---
	147+22	RT	---	---	---	---	1	---	---	---	---	---	---	---
	147+24	RT	---	---	1	---	---	---	---	---	---	---	---	---
	147+31	RT	---	---	1	---	---	---	---	---	---	---	---	---
	151+39	RT	---	---	---	---	1	1	---	---	---	---	---	---
	STAGE 4 SUBTOTALS		2	1	3	3	17	2	4	3	1	4	1	21

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

WATER MAIN (CATEGORY 0040)

STAGE	STATION	LOCATION	SPV.0060.06 REMOVING WATER MAIN VALVE & VALVE BOX EACH	SPV.0060.07 CAP WATER MAIN TO REMAIN IN SERVICE EACH	SPV.0060.08 ABANDONING WATER MAIN VALVE BOX EACH	SPV.0060.09 SALVAGE HYDRANT EACH	SPV.0060.10 ADJUSTING WATER MAIN VALVE BOX EACH	SPV.0060.11 ADJUSTING HYDRANT EACH	SPV.0060.12 WATER MAIN GATE VALVE & BOX 6-INCH EACH	SPV.0060.13 TRACER WIRE ACCESS BOX EACH	SPV.0060.14 WATER MAIN COUPLING 6-INCH EACH	SPV.0060.15 WATER MAIN BEND 45° 6-INCH EACH	SPV.0060.16 WATER MAIN TAPPING SLEEVE 6 X 6-INCH EACH	SPV.0090.02 WATER MAIN 6-INCH LF
5														
	155+91	RT	---	---	---	---	1	---	---	---	---	---	---	---
	155+93	RT	---	---	---	---	---	1	---	---	---	---	---	---
	161+72	RT	---	---	---	---	1	---	---	---	---	---	---	---
	161+75	RT	---	---	---	---	---	1	---	---	---	---	---	---
	165+23	RT	---	---	1	---	---	---	---	---	---	---	---	---
	STAGE 5 SUBTOTALS		0	0	1	0	2	2	0	0	0	0	0	0
6														
	185+21 - 185+29	LT	---	---	---	---	---	---	---	---	---	4	---	8
	186+08	LT	---	---	---	---	1	---	---	---	---	---	---	---
	190+10	LT	---	---	---	---	1	---	---	---	---	---	---	---
	194+76	LT	---	---	---	---	---	1	---	---	---	---	---	---
	195+85	LT	---	---	---	---	1	---	---	---	---	---	---	---
	STAGE 6 SUBTOTALS		0	0	0	0	3	1	0	0	0	4	0	8
PROJECT 9650-17-70 TOTAL			**2**	**1**	**8**	**3**	**23**	**5**	**4**	**3**	**1**	**12**	**1**	**29**

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

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
NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)
TEMPORARY LIMITED EASEMENT AREA
EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)
PARALLEL OFFSETS

SECTION CORNER SYMBOL
SECTION CORNER MONUMENT
R/W MONUMENT (TO BE SET)
NON-MONUMENTED R/W POINT
FOUND IRON PIN (1-INCH UNLESS NOTED) IP
GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
SIGN
OFF-PREMISE SIGN
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
R/W BOUNDARY POINT 100
PLE BOUNDARY POINT 2000
TLE BOUNDARY POINT 3000
BUILDING
TO BE REMOVED

CONVENTIONAL UTILITY SYMBOLS

		NON COMPENSABLE	COMPENSABLE
WATER	W		
GAS	G		
TELEPHONE	T		
OVERHEAD TRANSMISSION LINES	OH		
ELECTRIC	E		
CABLE TELEVISION	TV		
FIBER OPTIC	FO		
SANITARY SEWER	SAN		
STORM SEWER	SS		
POWER POLE			
TELEPHONE POLE			
TELEPHONE PEDESTAL			
ELECTRIC TOWER			
LIGHTING POLE			
HYDRANT			
INLET/CATCH BASIN	INL		
MANHOLE			
WATER VALVE			
SEPTIC VALVE	SEPV		
UTILITY POLE			
TANK	T		
AIR CONDITIONING UNIT	A/C		
ANTENNA	ANT		
MONITORING WELL			
CONCRETE MONUMENT			

CURVE DATA

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

R/W PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
9650-17-20/22		
FEDERAL PROJECT NUMBER STH 47	4.01	28

PLAT OF RIGHT-OF-WAY REQUIRED FOR

SHAWANO - NEOPIT

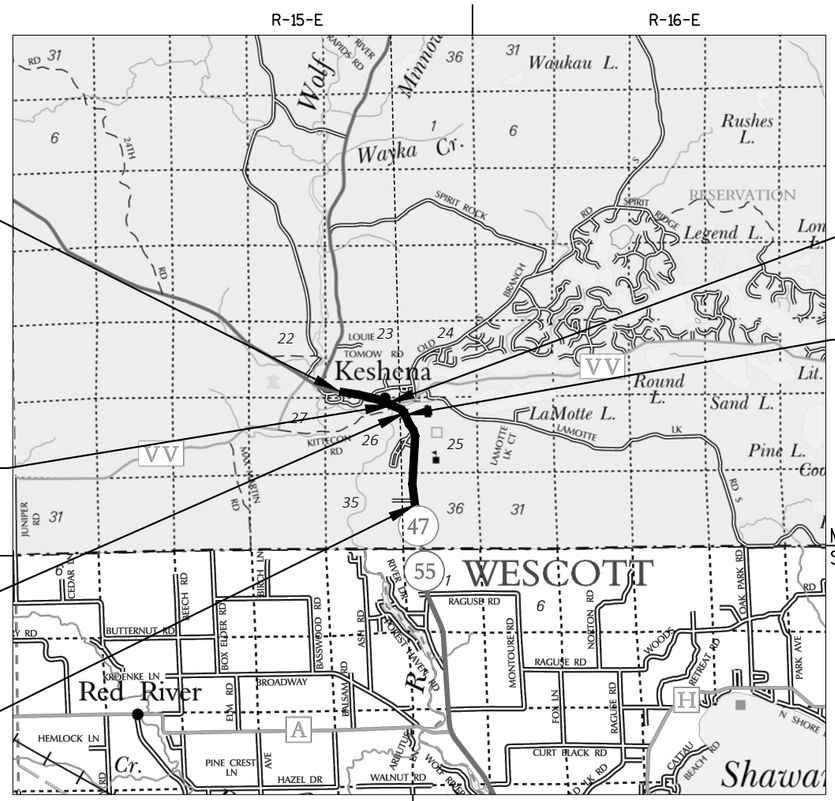
DUQUAINE ROAD TO N JCT COUNTY VV

STH 47 MENOMINEE COUNTY

CONSTRUCTION PROJECT NUMBER
9650-17-70

CONVENTIONAL ABBREVIATIONS

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



END RELOCATION ORDER
PROJECT 9650-17-22 - SEGMENT 2
STATION 200+65.98
308.69' NORTH AND 485.50' EAST
OF THE WEST QUARTER CORNER OF
SECTION 26, T28N, R15E.

BEGIN RELOCATION ORDER
PROJECT 9650-17-22 - SEGMENT 2
STATION 156+50.00
2056.14' NORTH AND 572.09' WEST
OF THE EAST QUARTER CORNER OF
SECTION 26, T28N, R15E.

END RELOCATION ORDER
PROJECT 9650-17-22 - SEGMENT 1
STATION 148+00.00
1655.52' NORTH AND 171.58' EAST
OF THE SOUTHWEST CORNER OF
SECTION 25, T28N, R15E.

BEGIN RELOCATION ORDER
PROJECT 9650-17-22 - SEGMENT 1
STATION 82+40.00
3219.41' NORTH AND 924.57' EAST
OF THE SOUTHWEST CORNER OF
SECTION 36, T28N, R15E.

END RELOCATION ORDER
PROJECT 9650-17-20
STATION 157+00.00
2077.66' NORTH AND 617.22' WEST
OF THE EAST QUARTER CORNER OF
SECTION 26, T28N, R15E.

BEGIN RELOCATION ORDER
PROJECT 9650-17-20
STATION 147+30.00
1597.30' NORTH AND 210.29' EAST
OF THE SOUTHWEST CORNER OF
SECTION 25, T28N, R15E.

MENOMINEE CO
SHAWANO CO

N

LAYOUT
SCALE 0 1 MI.

TOTAL NET LENGTH OF CENTERLINE = 2.254 MI.

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), MENOMINEE COUNTY, NAD83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

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

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

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

A HIGHWAY EASEMENT (HE) IS AN EASEMENT FOR HIGHWAY PURPOSES, AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE.

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, SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

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

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

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

ORIGINAL PLAT PREPARED BY

AECOM

WISCONSIN
LANCE J. HABECK
S-1444
PLOVER, WI
LAND SURVEYOR

Lance J. Habeck

LANCE J. HABECK, PLS-1444

DATE: 10/24/2017

REVISION DATE
7/29/19
1/23/20

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED FOR THE DEPARTMENT
DATE: 11-8-2017 Brent L Stella
(Signature)

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\040101-2_RP.DWG PLOT DATE : 11/7/2017 4:19 PM PLOT BY : KOCH, LARRY PLOT NAME : ----------
WISDOT/CADDS SHEET 50

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	SHEET NUMBER	OWNER(S)	BIA TRACT NO.	INTEREST REQUIRED	HE ACRES REQUIRED NEW	EXIST.	TOTAL	PLE ACRES	TLE ACRES
1	4.06	MENOMINEE COUNTY	-----	TLE	-----	-----	-----	-----	0.023
2	4.06	MARTINA FRECHETTE	-----	TLE	-----	-----	-----	-----	0.137
3	4.06	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN, CHRIS WILBER, LESSEE	440-T 80023175	TLE	-----	-----	-----	-----	0.086
4	4.06	ROGER CORN SR. & RENITA L. CORN	-----	TLE	-----	-----	-----	-----	0.081
6	4.06 & 4.07	SUSAN L. BLONG	-----	TLE	-----	-----	-----	-----	0.089
7	4.06	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN LES GRIGNON, LESSEE	440-T 80013175	TLE	-----	-----	-----	-----	0.086
8	4.06 & 4.07	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN	440-T 2120	TLE	-----	-----	-----	-----	0.131
9	4.07	PETER F. MARTIN	-----	TLE	-----	-----	-----	-----	0.122
11	4.07, 4.08, 4.09, 4.10 & 4.11	MENOMINEE INDIAN SCHOOL DISTRICT	-----	HE, PLE, TLE	0.093	-----	0.093	0.297	0.957
12	4.08	KENNETH A. FISH	-----	PLE, TLE	-----	-----	-----	0.008	0.115
13	4.08 & 4.09	WOLF RIVER DEVELOPMENT COMPANY	-----	TLE	-----	-----	-----	-----	0.214
14	4.10 & 4.11	GUY KESHENA, A SINGLE MAN, FOR AND ON BEHALF OF MITW	-----	TLE	-----	-----	-----	-----	0.051
16•	4.11 & 4.12	ESTATE OF ESTHER TUCKER & ANNLEE M. TUCKER	-----	TLE	-----	-----	-----	-----	0.041
17	4.11 & 4.12	GUY KESHENA, A SINGLE MAN, FOR AND ON BEHALF OF MITW	-----	PLE, TLE	-----	-----	-----	0.172	0.020
18	4.11, 4.12	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN, RITA KESHENA, PERMITTOR & JOYCE M. RICHTER, PERMITTEE	440-T 80012172	TLE	-----	-----	-----	-----	0.071
19	4.11	WISCONSIN-NORTHERN MICHIGAN DISTRICT COUNCIL OF THE ASSEMBLIES OF GOD (WAUPACA, WISCONSIN)	-----	PLE, TLE	-----	-----	-----	0.012	0.080
21	4.11	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN	440-T 164003 2	TLE	-----	-----	-----	-----	0.023
22	4.11	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN, JODY O'NEIL, LESSEE	440-T 164004 2	TLE	-----	-----	-----	-----	0.022
23	4.11 & 4.13	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN	440-T 164005 2	TLE	-----	-----	-----	-----	0.024
24	4.11 & 4.13	KATHY E. TUCKER, JAMES R. TUCKER SR. & JAMES R. TUCKER JR.	-----	TLE	-----	-----	-----	-----	0.034
26	4.13	PERSHING FRECHETTE & PAMELA FRECHETTE	-----	TLE	-----	-----	-----	-----	0.037
27	4.13	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN CARROL J. KAQUATOSH, LESSEE	440-T 164006 2	TLE	-----	-----	-----	-----	0.027
28	4.13	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN;	440-T 164007 2	TLE	-----	-----	-----	-----	0.027
29	4.13	AMY MENCHACA	-----	TLE	-----	-----	-----	-----	0.030
31	4.13	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN; MENOMINEE INDIAN TRIBE, PERMITTOR KATERINA WYCHESIT, PERMITTEE	440-T 164009 2	TLE	-----	-----	-----	-----	0.006
34	4.13	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN	440-T 1640011 15	HE & TLE	0.002	-----	0.002	-----	0.039
36	4.13, 4.14	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN	440-T 1640010 15	PLE & TLE	-----	-----	-----	0.017	0.120
38	4.14	SOSAEH WAUKECHON	-----	TLE	-----	-----	-----	-----	0.008
39	4.14	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN, JOSEPH G. WAUKECHON JR. & MILA MAE WAUKECHON, ASSIGNEE	440-T 164009 15	TLE	-----	-----	-----	-----	0.041
41	4.14	MENOMINEE PROPANE, INC.	-----	TLE	-----	-----	-----	-----	0.034
42	4.14	MENOMINEE GAS, INC.	-----	PLE & TLE	-----	-----	-----	0.005	0.028
43	4.14, 4.15	RONALD SKENANDORE & CAROL SKENANDORE	-----	HE & TLE	0.003	-----	0.003	-----	0.021
44	4.15	ANTHONY WAUPOCHICK JR. & FAY A. WAUPOCHICK	-----	TLE	-----	-----	-----	-----	0.004
46	4.15	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN	440-T 80012078	HE, PLE, TLE	0.005	-----	0.005	0.017	0.029
47	4.15 & 4.16	MENOMINEE ENTERPRISES, INC.	-----	PLE & TLE	-----	-----	-----	0.155	0.008
48	4.16 & 4.17	MENOMINEE ENTERPRISES, INC.	-----	PLE & TLE	-----	-----	-----	0.043	0.122
49	4.16	MENOMINEE ENTERPRISES, INC.	-----	TLE	-----	-----	-----	-----	0.058
51	4.16 & 4.17	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN	440-T 180	HE, PLE, TLE	0.002	-----	0.002	0.052	0.165
52	4.17	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN	440-T 164002 13	TLE	-----	-----	-----	-----	0.031
53	4.17	CATHERINE W. HAWPETOSS	-----	TLE	-----	-----	-----	-----	0.022
54	4.17	SHANNON CHAPMAN	-----	TLE	-----	-----	-----	-----	0.038
56	4.17	EAST-WEST UNIVERSITY, INC.	-----	TLE	-----	-----	-----	-----	0.061
57	4.17 & 4.18	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN; RITA KESHENA, PERMITTOR & DELORES C. WAUKECHON, PERMITTEE	440-T 164006 13	HE & TLE	0.004	-----	0.004	-----	0.059
58	4.17 & 4.18	SAINT MICHAEL CONGREGATION	-----	TLE	-----	-----	-----	-----	0.090
59	4.18 & 4.19	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN	440-T 80022220	TLE	-----	-----	-----	-----	0.100
61	4.18	LAURIE A. REITER	-----	HE & TLE	0.006	-----	0.006	-----	0.052
62	4.18	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN BILL OF SALE TO APESANAHKWAT AND KERRY CHEVALIER	440-T 164004 12	TLE	-----	-----	-----	-----	0.041
63	4.18 & 4.19	LUANA DICKENSON	-----	TLE	-----	-----	-----	-----	0.036

4

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REVISION DATE 7/29/19 1/23/20 NC

DATE: MAY 2017

SCALE, FEET 0 N/A

HWY: STH 47

COUNTY: MENOMINEE

STATE R/W PROJECT NUMBER 9650-17-20/22

CONSTRUCTION PROJECT NUMBER 9650-17-70

PLAT SHEET 4.02

PS&E SHEET 247 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\040101-2_RP.DWG PLOT DATE : 7/29/2019 2:35 PM PLOT BY : DOLAN, ISAAC PLOT NAME : ----------

WISDOT/CADDS SHEET 60

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	SHEET NUMBER	OWNER(S)	BIA TRACT NO.	INTEREST REQUIRED	HE ACRES REQUIRED NEW	EXIST.	TOTAL	PLE ACRES	TLE ACRES
64	4.19	KCJ PROPERTIES, LLC	-----	PLE, TLE	-----	-----	-----	0.184	0.056
66	4.19	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN	440-T 164991 12	PLE, TLE	-----	-----	-----	0.025	0.012
67	4.19	MICHAEL A. SKENADORE	-----	HE, PLE, TLE	0.007	-----	0.007	0.012	0.092
68	4.19	KATHLEEN FRAAZA, VENDOR, JONATHAN KOON & BILLY JO KOON, PURCHASER	-----	HE, TLE	0.005	-----	0.005	-----	0.012
69	4.19 & 4.20	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN RITA KESHENA, PERMITTOR, ARTHUR CHAPMAN & LUCILLE B. CHAPMAN, PERMITTEE	440-T 164008 4	TLE	-----	-----	-----	----	0.011
71	4.20	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN MATT SEESTEDT, ASSIGNEE	440-T 164007 4	TLE	-----	-----	-----	-----	0.009
72	4.20	REYNOLD W. KATCHENAGO	-----	TLE	-----	-----	-----	-----	0.009
73	4.20	SUSAN DICKENSON	-----	TLE	-----	-----	-----	-----	0.013
74	4.20	FRONTIER COMMUNICATIONS OF WISCONSIN, LLC.	-----	TLE	-----	-----	-----	-----	0.014
76	4.20, 4.21	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN	440-T 164991 9	TLE	-----	-----	-----	-----	0.059
77	4.20	GRACE F. WILBER	-----	TLE	-----	-----	-----	-----	0.012
78*	4.20, 4.21	GRACE F. WILBER & DAVID L. CORN	-----	TLE	-----	-----	-----	-----	0.021
79	4.21	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN	440-T 164001 4	HE, TLE	0.053	-----	0.053	-----	0.049
81	4.21	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN, MERCEDES MARTIN, LESSEE	440-T 164001 9	PLE, TLE	-----	-----	-----	0.128	0.011
82	4.21	AGNES W. PIERSANTE, CATHERINE WAUKECHON & JOHN WAUKECHON	-----	TLE	-----	-----	-----	-----	0.065
83	4.22	MENOMINEE ENTERPRISES, INC.	-----	HE	0.060	-----	0.060	-----	-----
84	4.21, 4.22	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN	440-T 137	HE, TLE	0.123	-----	0.123	-----	0.037
86	4.22, 4.23	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN	440-T 164992 6	HE, TLE	0.065	-----	0.065	-----	0.030
87	4.23	ESTATE OF ALFRED P. LYONS, JOSEPH J. LYONS, VIRGINIA M. SMIGELSKI, HARLEY A. LYONS, JEAN M. HESSE, MYRTLE A. KREIER & WILFRED E. LYONS	-----	HE, PLE	0.021	-----	0.021	0.005	-----
89	4.24, 4.25, 4.27	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN	440-T 92328151	HE, PLE TLE	0.130	-----	0.130	0.017	0.054
91	4.25	WILLIAM A. MARTIN	-----	HE	0.014	-----	0.014	-----	-----
93	4.25, 4.26, 4.27	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN	440-T 92328151	PLE	-----	-----	-----	0.022	-----
95	4.27	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN, LONA L. TOUTILLOTT, PERMITTEE	440-T 80012045	TLE	-----	-----	-----	-----	0.028

UTILITY SCHEDULE & INTERESTS REQUIRED

UTILITY NUMBER	SHEET NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED	AFFECTED PARCEL
200	4.07, 4.09, 4.10 4.11, 4.13, 4.17, 4.18, 4.19, 4.20, 4.21, 4.27	FRONTIER COMMUNICATIONS	RELEASE OF RIGHTS	11,26,53,61, 64,68,78,89
201	4.06, 4.07, 4.13, 4.14, 4.20	WISCONSIN POWER AND LIGHT COMPANY D/B/A ALLIANT ENERGY	RELEASE OF RIGHTS	2,4,9, 24,42,74
202	4.20, 4.21	CHARTER COMMUNICATIONS	RELEASE OF RIGHTS	89
203	4.06, 4.07, 4.08, 4.09, 4.10, 4.18, 4.19	MITW UTILITIES	TEMPORARY CONSTRUCTION ASSIGNMENT	1,2,3,7,8,9,11, 12,13,14,58,64, 66,67
204	4.09, 4.10	NSIGHT TOWER HOLDINGS II, LLC	RELEASE OF RIGHTS	11

EXISTING EASEMENTS

OWNER	RECORDING INFORMATION	PARCEL
MENOMINEE INDIAN TRIBE OF WISCONSIN	VOL. 68 PG. 23 DOC. 25493	1
MENOMINEE INDIAN TRIBE OF WISCONSIN	VOL. 67 PG. 646 DOC. 25202	2
MENOMINEE INDIAN TRIBE OF WISCONSIN	VOL. 67 PG. 645 DOC. 25201	8
MENOMINEE INDIAN TRIBE OF WISCONSIN	VOL. 67 PG. 642 DOC. 25198	9
MENOMINEE INDIAN TRIBE OF WISCONSIN	VOL. 67 PG. 647 DOC. 25203 VOL. 74 PG. 136 DOC. 27084	11
FRONTIER COMMUNICATIONS OF WISCONSIN, LLC	VOL. 40 PG. 640 DOC. 13112	11
MENOMINEE INDIAN TRIBE OF WISCONSIN	VOL. 72 PG. 295 DOC. 26750	12
MENOMINEE INDIAN TRIBE OF WISCONSIN	VOL. 72 PG. 296 DOC. 26751	12,13
NSIGHT TOWER HOLDINGS II, LLC	VOL. 102 PG. 135 DOC. 34327	11

EXISTING EASEMENTS

OWNER	RECORDING INFORMATION	PARCEL
FRONTIER COMMUNICATIONS OF WISCONSIN, LLC	VOL. 33 PG. 339 DOC. 10311	11
MENOMINEE INDIAN TRIBE OF WISCONSIN	VOL. 64 PG. 724 DOC. 24530	14
MENOMINEE INDIAN TRIBE OF WISCONSIN	VOL. 62 PG. 202 DOC. 23941	44
MENOMINEE INDIAN TRIBE OF WISCONSIN	VOL. 4 PG. 194 DOC. 739	58
MENOMINEE INDIAN TRIBE OF WISCONSIN	VOL. 62 PG. 206 DOC. 23943	67
MENOMINEE INDIAN TRIBE OF WISCONSIN	VOL. 4 PG. 201 DOC. 743	64, 66
FRONTIER COMMUNICATIONS OF WISCONSIN, LLC	VOL. 49 PG. 495 DOC. 18634	78
MENOMINEE INDIAN TRIBE OF WISCONSIN	VOL. 4 PG. 199 DOC. 742	83

T 28 N

WOLF COURT

25

GN

MENOMINEE INDIAN RESERVATION

CHIEF CARRON ROAD

MORRIN STREET

NW-SW

NE-SW

NW-SE

NE-SE

SE-SW

SW-SW

SW-SE

SE-SE

CHIEF LITTLE WAVE ROAD

PROJECT 9650-17-22 - SEGMENT 1

R 15 E

R 16 E

WARRINGTON ROAD

NW-NW

NE-NW

NW-NE

NE-NE

DODGE ROAD

SE-NW

SW-NE

SE-NE

SW-NW

STH 47

BEGIN RELOCATION ORDER
9650-17-22 - SEGMENT 1
STATION 82+40.00

36

4

4

REVISION DATE 7/29/19 NC 1/23/20 NC	DATE: MAY 2017	NOT TO SCALE	HWY: STH 47	STATE R/W PROJECT NUMBER 9650-17-20/22	PLAT SHEET 4.04
			COUNTY: MENOMINEE	CONSTRUCTION PROJECT NUMBER 9650-17-70	PS&E SHEET 249 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\040103-27_RP.DWG PLOT DATE : 1/23/2020 2:55 PM PLOT BY : DOLAN, ISAAC PLOT NAME : ----------

WISDOT/CADDS SHEET 7O

23

MENOMINEE INDIAN RESERVATION

24

GN

4

4

SW-SW

SE-SW

SW-SE

SE-SE

END RELOCATION ORDER
9650-17-22 - SEGMENT 2
STATION 200+65.98

PROJECT 9650-17-22
SEGMENT 2

PROJECT 9650-17-20

R 15 E

STH 55

STH 47

COURTHOUSE LANE

WOLF RIVER DRIVE

RABBIT RIDGE ROAD

BLACKSMITH ROAD

LYONS LOOP

CTH VV EAST

NW-NW

NE-NW

NW-NE

NE-NE

SW-NW

SE-NW

SW-NE

SE-NE

END RELOCATION ORDER
9650-17-20
STATION 157+00.00

BEGIN RELOCATION ORDER
9650-17-22 - SEGMENT 2
STATION 156+50.00

END RELOCATION
ORDER 9650-17-22
SEGMENT 1
STATION 148+00.00

BEGIN RELOCATION ORDER
9650-17-20
STATION 147+30.00

FAIRGROUNDS ROAD

TRIBAL OFFICE LOOP

PROJECT 9650-17-22
SEGMENT 1

OUR CHILDRENS ROAD

WOLF COURT

BROOKS LANE

STH 47

T 28 N

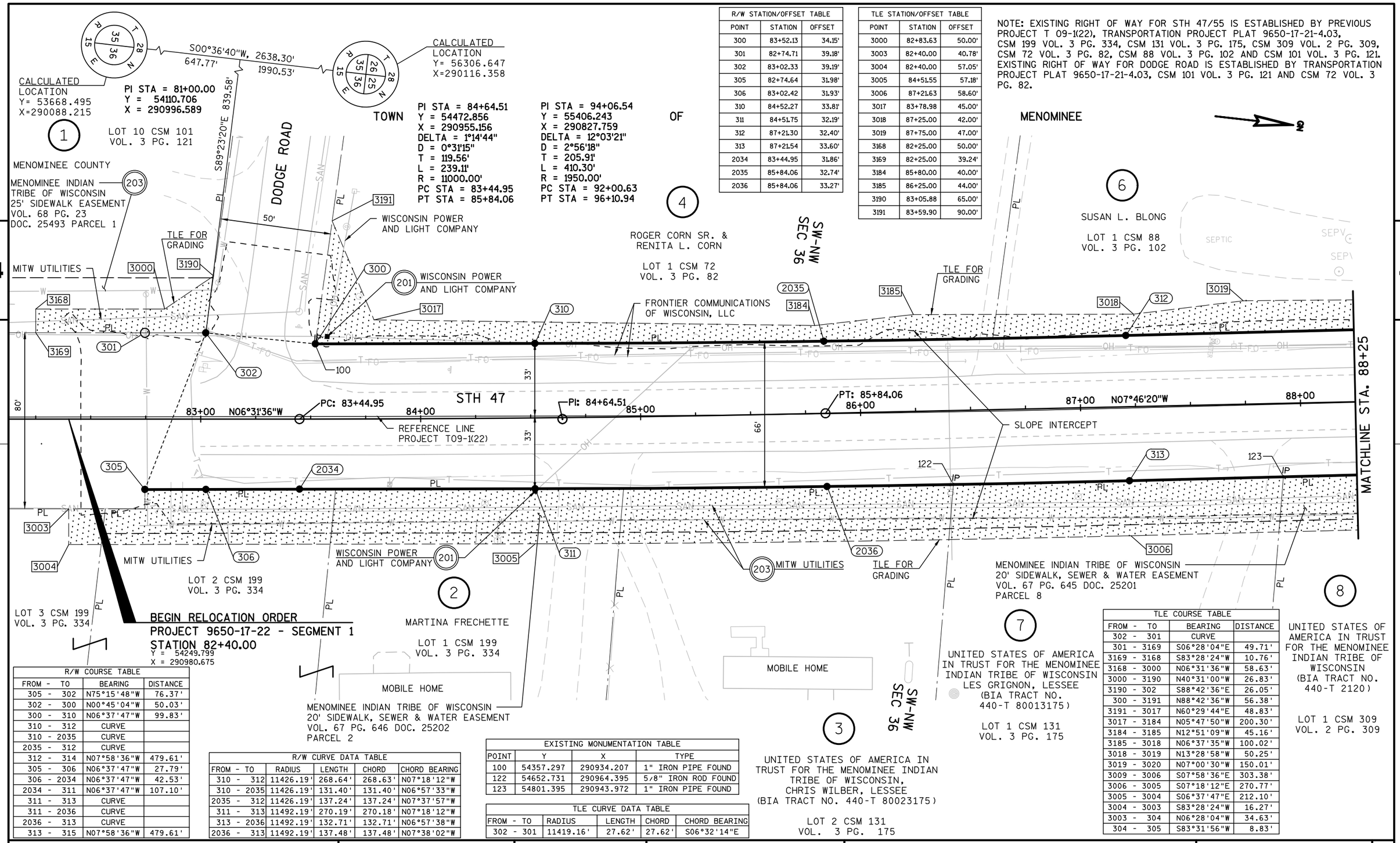
26

25

REVISION DATE 7/29/19 1/23/20 NC	DATE: MAY 2017	NOT TO SCALE	HWY: STH 47	STATE R/W PROJECT NUMBER 9650-17-20/22	PLAT SHEET 4.05
			COUNTY: MENOMINEE	CONSTRUCTION PROJECT NUMBER 9650-17-70	PS&E SHEET 250 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\040103-27_RP.DWG PLOT DATE : 1/23/2020 2:55 PM PLOT BY : DOLAN, ISAAC PLOT NAME : ----------

WISDOT/CADDS SHEET 70



R/W STATION/OFFSET TABLE		
POINT	STATION	OFFSET
300	83+52.13	34.15'
301	82+74.71	39.18'
302	83+02.33	39.19'
305	82+74.64	31.98'
306	83+02.42	31.93'
310	84+52.27	33.81'
311	84+51.75	32.19'
312	87+21.30	32.40'
313	87+21.54	33.60'
2034	83+44.95	31.86'
2035	85+84.06	32.74'
2036	85+84.06	33.27'

TLE STATION/OFFSET TABLE		
POINT	STATION	OFFSET
3000	82+83.63	50.00'
3003	82+40.00	40.78'
3004	82+40.00	57.05'
3005	84+51.55	57.18'
3006	87+21.63	58.60'
3017	83+78.98	45.00'
3018	87+25.00	42.00'
3019	87+75.00	47.00'
3168	82+25.00	50.00'
3169	82+25.00	39.24'
3184	85+80.00	40.00'
3185	86+25.00	44.00'
3190	83+05.88	65.00'
3191	83+59.90	90.00'

R/W COURSE TABLE		
FROM - TO	BEARING	DISTANCE
305 - 302	N75°15'48"W	76.37'
302 - 300	N00°45'04"W	50.03'
300 - 310	N06°37'47"W	99.83'
310 - 312	CURVE	
310 - 2035	CURVE	
2035 - 312	CURVE	
312 - 314	N07°58'36"W	479.61'
305 - 306	N06°37'47"W	27.79'
306 - 2034	N06°37'47"W	42.53'
2034 - 311	N06°37'47"W	107.10'
311 - 313	CURVE	
311 - 2036	CURVE	
2036 - 313	CURVE	
313 - 315	N07°58'36"W	479.61'

R/W CURVE DATA TABLE				
FROM - TO	RADIUS	LENGTH	CHORD	CHORD BEARING
310 - 312	11426.19'	268.64'	268.63'	N07°18'12"W
310 - 2035	11426.19'	131.40'	131.40'	N06°57'33"W
2035 - 312	11426.19'	137.24'	137.24'	N07°37'57"W
311 - 313	11492.19'	270.19'	270.18'	N07°18'12"W
313 - 2036	11492.19'	132.71'	132.71'	N06°57'38"W
2036 - 313	11492.19'	137.48'	137.48'	N07°38'02"W

EXISTING MONUMENTATION TABLE			
POINT	Y	X	TYPE
100	54357.297	290934.207	1" IRON PIPE FOUND
122	54652.731	290964.395	5/8" IRON ROD FOUND
123	54801.395	290943.972	1" IRON PIPE FOUND

TLE CURVE DATA TABLE				
FROM - TO	RADIUS	LENGTH	CHORD	CHORD BEARING
302 - 301	11419.16'	27.62'	27.62'	S06°32'14"E

TLE COURSE TABLE		
FROM - TO	BEARING	DISTANCE
302 - 301	CURVE	
301 - 3169	S06°28'04"E	49.71'
3169 - 3168	S83°28'24"W	10.76'
3168 - 3000	N06°31'36"W	58.63'
3000 - 3190	N40°31'00"W	26.83'
3190 - 302	S88°42'36"E	26.05'
300 - 3191	N88°42'36"W	56.38'
3191 - 3017	N60°29'44"E	48.83'
3017 - 3184	N05°47'50"W	200.30'
3184 - 3185	N12°51'09"W	45.16'
3185 - 3018	N06°37'35"W	100.02'
3018 - 3019	N13°28'58"W	50.25'
3019 - 3020	N07°00'30"W	150.01'
3009 - 3006	S07°58'36"E	303.38'
3006 - 3005	S07°18'12"E	270.77'
3005 - 3004	S06°37'47"E	212.10'
3004 - 3003	S83°28'24"W	16.27'
3003 - 304	N06°28'04"W	34.63'
304 - 305	S83°31'56"W	8.83'

REVISION DATE 7/29/19 1/23/20 NC	DATE: MAY 2017	SCALE, FEET 0 20 40	HWY: STH 47	STATE R/W PROJECT NUMBER 9650-17-20/22	PLAT SHEET 4.06
	GRID FACTOR N/A		COUNTY: MENOMINEE	CONSTRUCTION PROJECT NUMBER 9650-17-70	PS&E SHEET 251 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\040103-27_RP.DWG PLOT DATE : 1/23/2020 2:55 PM PLOT BY : DOLAN, ISAAC PLOT NAME :

WISDOT/CADDS SHEET 75

NOTE: EXISTING RIGHT OF WAY FOR STH 47/55 IS ESTABLISHED BY PREVIOUS PROJECT T 09-1(22), CSM 88 VOL. 3 PG. 102, CSM 309 VOL. 2 PG. 309, CSM VOL. 2 PG. 192, CSM VOL. 1 PG. 83 AND CSM 82 VOL. 3 PG. 93.

R/W STATION/OFFSET TABLE		
POINT	STATION	OFFSET
314	92+00.91	34.11'
315	92+01.16	31.89'

PLE STATION/OFFSET TABLE		
POINT	STATION	OFFSET
2507	93+00.00	62.00'
2508	93+00.00	34.43'
2510	94+00.00	62.00'

TLE STATION/OFFSET TABLE		
POINT	STATION	OFFSET
3009	90+25.00	57.52'
3010	91+25.00	65.00'
3011	92+00.00	60.00'
3012	93+50.00	55.00'
3020	89+25.00	45.00'
3021	90+04.97	55.00'

EXISTING MONUMENTATION TABLE			
POINT	Y	X	TYPE
103	55207.544	290887.054	1" IRON PIPE FOUND
124	55027.436	290912.345	1" IRON PIPE FOUND

PI STA = 84+64.51
Y = 54472.856
X = 290955.156
DELTA = 1°14'44"
D = 0°31'15"
T = 119.56'
L = 239.11'
R = 11000.00'
PC STA = 83+44.95
PT STA = 85+84.06

CALCULATED
LOCATION
Y= 53668.495
X=290088.215

S00°36'40"W, 2638.30'
1537.13'
1101.17'

CALCULATED
LOCATION
Y= 56306.647
X=290116.358

PI STA = 94+06.54
Y = 55406.243
X = 290827.759
DELTA = 12°03'21"
D = 2°56'18"
T = 205.91'
L = 410.30'
R = 1950.00'
PC STA = 92+00.63
PT STA = 96+10.94

S89°23'20"E 717.20'

TOWN OF MENOMINEE

SW-NW SEC 36 | NW-NW SEC 36

6 SUSAN L. BLONG
LOT 1 CSM 88
VOL. 3 PG. 102

11 MENOMINEE INDIAN SCHOOL DISTRICT
LOT 1 CSM
VOL. 2 PG. 192

200 FRONTIER COMMUNICATIONS OF WISCONSIN, LLC
EASEMENT
VOL. 40 PG. 640-642
DOC. 13112
PARCEL 11

FRONTIER COMMUNICATIONS OF WISCONSIN, LLC

11 MENOMINEE INDIAN SCHOOL DISTRICT
LOT 1 CSM
VOL. 1 PG. 83

WISCONSIN POWER AND LIGHT COMPANY

TLE FOR GRADING

PLE FOR DRAINAGE

3021 | 3020 | 314 | 2507 | 2508 | 2510

MATCHLINE STA. 88+25

STH 47

89+00 | 90+00 | 91+00 | 92+00 | 93+00 | 94+00

N07°46'20"W

SLOPE INTERCEPT

PC: 92+00.63

PI: 94+06.54

REFERENCE LINE
PROJECT T09-1(22)

MATCHLINE STA. 94+25

66' | 33' | 33'

124 | 103

MITW UTILITIES

3009 | 3010 | 3011 | 315 | 3012

TLE FOR GRADING

WISCONSIN POWER AND LIGHT COMPANY 201

203 MITW UTILITIES

1/16 LINE

8 UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN (BIA TRACT NO. 440-T 2120)
LOT 1 CSM 309
VOL. 2 PG. 309
MENOMINEE INDIAN TRIBE OF WISCONSIN
20' SIDEWALK, SEWER & WATER EASEMENT
VOL. 67 PG. 645 DOC. 25201
PARCEL 8

9 PETER F. MARTIN
LOT 2 CSM 82
VOL. 3 PG. 93
MENOMINEE INDIAN TRIBE OF WISCONSIN
30' SIDEWALK, SEWER & WATER EASEMENT
VOL. 67 PG. 642 DOC. 25198
PARCEL 9

11 MENOMINEE INDIAN SCHOOL DISTRICT
LOT 1 CSM 82
VOL. 3 PG. 93
MENOMINEE INDIAN TRIBE OF WISCONSIN
30' SIDEWALK, SEWER & WATER EASEMENT
VOL. 67 PG. 647 DOC. 25203
VOL. 74 PG. 136 DOC. 27084
PARCEL 11

ACCESS CONTROL ESTABLISHED BY ACCESS COVENANTS RECORDED AS VOL. 70, PG. 624, DOC. 26105 AND VOL. 70, PG. 889-890, DOC. 26153 PARCEL 11

R/W COURSE TABLE		
FROM - TO	BEARING	DISTANCE
312 - 314	N07°58'36"W	479.61'
314 - 316	CURVE	
314 - 2038	CURVE	
313 - 315	N07°58'36"W	479.61'
315 - 317	CURVE	
315 - 2037	CURVE	

R/W CURVE DATA TABLE				
FROM - TO	RADIUS	LENGTH	CHORD	CHORD BEARING
314 - 316	1943.08'	433.79'	432.89'	N01°34'52"W
314 - 2038	1943.08'	417.30'	416.50'	N01°49'27"W
315 - 317	1877.08'	419.06'	418.19'	N01°34'52"W
315 - 2037	1877.08'	403.18'	402.40'	N01°49'24"W

TLE COURSE TABLE		
FROM - TO	BEARING	DISTANCE
3019 - 3020	N07°00'30"W	150.01'
3020 - 3021	N14°53'50"W	80.62'
3021 - 2507	N08°36'56"W	298.15'
2507 - 2508	N85°08'51"E	27.57'
2508 - 314	CURVE	
3013 - 3012	S01°10'47"E	145.73'
3012 - 3011	S07°33'11"E	145.65'
3011 - 3010	S11°35'11"E	75.17'
3010 - 3009	S03°29'31"E	100.28'
3009 - 3006	S07°58'36"E	303.38'

PLE CURVE DATA TABLE				
FROM - TO	RADIUS	LENGTH	CHORD	CHORD BEARING
316 - 2508	1943.08'	332.95'	332.55'	S00°05'40"E

TLE CURVE DATA TABLE				
FROM - TO	RADIUS	LENGTH	CHORD	CHORD BEARING
2508 - 314	1943.08'	100.84'	100.82'	S06°29'24"E

PLE COURSE TABLE		
FROM - TO	BEARING	DISTANCE
316 - 2508	CURVE	
2508 - 2507	S85°08'51"W	27.57'
2507 - 2510	N03°23'00"W	103.17'
2510 - 2515	N00°27'01"W	154.82'

REVISION DATE 7/29/19
1/23/20 NC

DATE: MAY 2017
GRID FACTOR N/A

SCALE, FEET
0 20 40

HWY: STH 47
COUNTY: MENOMINEE

STATE R/W PROJECT NUMBER 9650-17-20/22
CONSTRUCTION PROJECT NUMBER 9650-17-70

PLAT SHEET 4.07
PS&E SHEET 252

E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\040103-27_RP.DWG
PLOT DATE : 1/23/2020 2:55 PM
PLOT BY : DOLAN, ISAAC
PLOT NAME :
PLOT SCALE : **********

WISDOT/CADDS SHEET 75

CALCULATED
LOCATION
Y= 53668.495
X=290088.215

S00°36'40"W, 2638.30'
1969.70'
668.60'

CALCULATED
LOCATION
Y= 56306.647
X=290116.358

PI STA = 84+64.51
Y = 54472.856
X = 290955.156
DELTA = 1°14'44"
D = 0°31'15"
T = 119.56'
L = 239.11'
R = 11000.00'
PC STA = 83+44.95
PT STA = 85+84.06

PI STA = 94+06.54
Y = 55406.243
X = 290827.759
DELTA = 12°03'21"
D = 2°56'18"
T = 205.91'
L = 410.30'
R = 1950.00'
PC STA = 92+00.63
PT STA = 96+10.94

R/W STATION/OFFSET TABLE		
POINT	STATION	OFFSET
316	96+27.43	34.64'
317	96+26.81	31.35'
2037	96+10.94	31.27'
2038	96+10.94	34.73'

PLE STATION/OFFSET TABLE		
POINT	STATION	OFFSET
2515	95+50.00	64.00'
2518	97+40.00	65.00'
2521	97+40.00	33.60'
2604	97+10.00	50.00'
2605	97+10.00	32.12'
2606	97+30.00	50.00'
2607	97+30.00	32.31'

TLE STATION/OFFSET TABLE		
POINT	STATION	OFFSET
3013	95+00.00	55.00'
3022	97+40.00	50.00'

PI STA 98+31.57
Y = 55831.595
X = 290859.619
Δ = 00°25'14"

PI STA 103+26.31
Y = 56324.675
X = 290900.193
Δ = 00°43'01"

11
MENOMINEE INDIAN
SCHOOL DISTRICT
LOT 1 CSM
VOL. 1 PG. 83

TOWN OF MENOMINEE

NW-NW SEC 36

S89°23'20"E 700.64'

PLE FOR DRAINAGE

WISCONSIN POWER AND LIGHT COMPANY

TLE FOR GRADING

FRONTIER COMMUNICATIONS OF WISCONSIN, LLC

2515 2038 316 2518 3022 2521

STH 47

SLOPE INTERCEPT

MATCHLINE STA. 94+25

95+00 96+00 PT: 96+10.94 97+00 N04°17'01"E 98+00 PI: 98+31.57 99+00 N04°42'15"E 100

MATCHLINE STA. 100+00

REFERENCE LINE
PROJECT T09-1(22)

33' 99'

139 140 IP IP 2605 2607

2037 317 2604 2606 203 MITW UTILITIES

3013

TLE FOR GRADING

MENOMINEE INDIAN SCHOOL DISTRICT
10' EASEMENT
VOL. 70 PG. 996 DOC. 26183
PARCEL 12

MENOMINEE INDIAN TRIBE OF WISCONSIN
15' SIDEWALK, WATER AND SEWER EASEMENT
VOL. 72 PG. 295 DOC. 26750
PARCEL 12

12
KENNETH A. FISH
LOT 2 CSM 197
VOL. 3 PG. 332

PLE FOR DRAINAGE

MENOMINEE INDIAN SCHOOL DISTRICT
10' EASEMENT
VOL. 70 PG. 997 DOC. 26184
PARCEL 12 & 13

13
WOLF RIVER
DEVELOPMENT COMPANY
LOT 1 CSM 197
VOL. 3 PG. 332

FRONTIER COMMUNICATIONS OF WISCONSIN, LLC

MITW UTILITIES

WISCONSIN POWER AND LIGHT COMPANY

11
MENOMINEE INDIAN
SCHOOL DISTRICT
LOT 1 CSM 82
VOL. 3 PG. 93

ACCESS CONTROL ESTABLISHED
BY ACCESS COVENANTS
RECORDED AS
VOL. 70, PG. 624, DOC. 26105
AND
VOL. 70, PG. 889-890, DOC. 26153

NW-NW SEC 36

NOTE: EXISTING RIGHT OF WAY FOR STH 47/55 IS ESTABLISHED BY PREVIOUS PROJECT T 09-1(22), CSM VOL. 1 PG. 83, CSM 82 VOL. 3 PG. 93 AND CSM 197 VOL. 3 PG. 332.

R/W COURSE TABLE		
FROM - TO	BEARING	DISTANCE
314 - 316	CURVE	
314 - 2038	CURVE	
2038 - 316	CURVE	
316 - 2028	N04°48'52"E	617.82'
315 - 317	CURVE	
315 - 2037	CURVE	
2037 - 317	CURVE	
317 - 325	N04°48'52"E	630.09'

R/W CURVE DATA TABLE				
FROM - TO	RADIUS	LENGTH	CHORD	CHORD BEARING
314 - 316	1943.08'	433.79'	432.89'	N01°34'52"W
314 - 2038	1943.08'	417.30'	416.50'	N01°49'27"W
2038 - 316	1943.08'	16.49'	16.49'	N04°34'17"E
315 - 317	1877.08'	419.06'	418.19'	N01°34'52"W
315 - 2037	1877.08'	403.18'	402.40'	N01°49'24"W
2037 - 317	1877.08'	15.88'	15.88'	N04°34'20"E

PLE COURSE TABLE		
FROM - TO	BEARING	DISTANCE
316 - 2508	CURVE	
2510 - 2515	N00°27'01"W	154.82'
2515 - 2518	N03°41'30"E	192.00'
2518 - 2521	S85°42'59"E	31.40'
2521 - 316	S04°48'52"W	112.58'
316 - 317	S85°11'08"E	66.00'
317 - 2605	N04°48'52"E	83.19'
2605 - 2607	N04°48'52"E	20.00'
2607 - 2606	S85°42'59"E	17.69'
2606 - 2604	S04°17'01"W	20.00'
2604 - 2605	N85°42'59"W	17.88'

PLE CURVE DATA TABLE				
FROM - TO	RADIUS	LENGTH	CHORD	CHORD BEARING
316 - 2508	1943.08'	332.95'	332.55'	S00°05'40"E

TLE COURSE TABLE		
FROM - TO	BEARING	DISTANCE
2028 - 2521	S04°48'52"W	505.25'
2521 - 3022	N85°42'59"W	16.40'
3022 - 3023	N04°16'45"E	360.37'
317 - 2605	N04°48'52"E	83.19'
2605 - 2604	S85°42'59"E	17.88'
2604 - 3013	S02°03'01"W	206.97'
3013 - 3012	S01°10'47"E	145.73'
317 - 2607	N04°48'52"E	103.19'
3015 - 2606	S04°23'51"W	512.64'
2606 - 2607	N85°42'59"W	17.69'
2607 - 325	N04°48'52"E	526.90'

EXISTING MONUMENTATION TABLE			
POINT	Y	X	TYPE
139	55625.122	290875.595	1" IRON PIPE FOUND
140	55638.692	290876.742	1" IRON PIPE FOUND

REVISION DATE 7/29/19 NC
1/23/20 NC

DATE: MAY 2017

GRID FACTOR N/A

SCALE, FEET
0 20 40

HWY: STH 47

COUNTY: MENOMINEE

STATE R/W PROJECT NUMBER 9650-17-20/22

CONSTRUCTION PROJECT NUMBER 9650-17-70

PLAT SHEET 4.08

PS&E SHEET 253

E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\040103-27_RP.DWG PLOT DATE : 1/23/2020 2:55 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 75

PI STA 98+31.57
Y = 55831.595
X = 290859.619
Δ = 00°25'14"

11

PI STA 103+26.31
Y = 56324.675
X = 290900.193
Δ = 00°43'01"

PI: 108+16.38
Y = 56812.881
X = 290942.909
Δ = 01°06'38"

NSIGHT TOWER HOLDINGS II, LLC
30' INGRESS/EGRESS/UTILITY EASEMENT
VOL. 102 PG. 135 DOC. 34327
PARCEL 11
204

CALCULATED
LOCATION
Y= 56306.647
X=290116.358

MENOMINEE INDIAN
SCHOOL DISTRICT

LOT 1 CSM
VOL. 1 PG. 83

LOT 2 CSM
VOL. 1 PG. 83

WISCONSIN POWER
AND LIGHT COMPANY

TOWN OF MENOMINEE

NW-NW SEC 36

693.40'

IDENTICAL POINTS

MITW UTILITIES

MENOMINEE INDIAN TRIBE OF WISCONSIN
20' UTILITY EASEMENT
VOL. 64 PG. 724 DOC. 24530
PARCEL 11

201 WISCONSIN POWER
AND LIGHT COMPANY

203 MITW UTILITIES

SW-SW SEC 25

11

MENOMINEE INDIAN
SCHOOL DISTRICT

LOT 1 CSM
VOL. 1 PG. 83

TLE FOR
GRADING

FRONTIER COMMUNICATIONS

MATCHLINE STA. 100+00

MATCHLINE STA. 106+00

STH 47

100+00 101+00 N04°42'15"E 102+00 103+00 104+00 105+00 N05°00'02"E 106

66'

33'

SLOPE INTERCEPT

REFERENCE LINE
PROJECT T09-1(22)

PI: 103+26.31

121.94'

SECTION LINE

66'

N88°45'06"W 2631.40'

1816.06'

WARRINGTON ROAD

FRONTIER COMMUNICATIONS
OF WISCONSIN, LLC

TLE FOR
GRADING

MITW UTILITIES

MENOMINEE INDIAN TRIBE OF WISCONSIN
15' SIDEWALK EASEMENT
VOL. 72 PG. 296 DOC. 26751
PARCEL 12 & 13

MENOMINEE INDIAN SCHOOL DISTRICT
10' EASEMENT
VOL. 70 PG. 997 DOC. 26184
PARCEL 12 & 13

13

WOLF RIVER
DEVELOPMENT COMPANY

LOT 1 CSM 197
VOL. 3 PG. 332

NW-NW SEC 36

11

MENOMINEE INDIAN
SCHOOL DISTRICT

200 FRONTIER COMMUNICATIONS
OF WISCONSIN, LLC
EASEMENT
VOL. 33 PG. 339 DOC. 10311
PARCEL 11

SW-SW SEC 25

BLOCK 1

ASSESSOR'S PLAT NO. 1 OF THE UNINCORPORATED VILLAGE OF KESHENA

NOTE: EXISTING RIGHT OF WAY FOR STH 47/55 IS ESTABLISHED BY PREVIOUS PROJECT T 09-1(22), CSM VOL. 1 PG. 83, CSM 82 VOL. 3 PG. 93 CSM 197 VOL. 3 PG. 332 AND ASSESSOR'S PLAT NO. 1 OF THE UNINCORPORATED VILLAGE OF KESHENA. EXISTING RIGHT OF WAY FOR WARRINGTON ROAD IS ESTABLISHED BY CSM 82 VOL. 3 PG. 93 CSM 197 AND ASSESSOR'S PLAT NO. 1.

SURVEY NAIL
FOUND
Y= 56249.314
X=292747.135

IDENTICAL POINTS

EXISTING MONUMENTATION TABLE			
POINT	Y	X	TYPE
141	56252.940	290928.474	1" IRON PIPE FOUND

R/W STATION/OFFSET TABLE		
POINT	STATION	OFFSET
322	103+23.27	34.20'
325	102+57.14	34.07'
2000	103+24.95	62.15'
2001	103+43.00	51.00'
2028	102+45.00	31.95'
2029	102+50.00	82.00'
2030	102+95.00	89.00'
2033	103+35.00	31.83'
2065	102+85.86	87.58'
2066	102+93.21	34.14'
2078	103+46.00	34.14'
2131	103+03.00	65.00'

TLE STATION/OFFSET TABLE		
POINT	STATION	OFFSET
3015	102+43.00	48.00'
3016	102+51.49	139.60'
3023	101+00.00	52.00'
3037	103+25.78	75.84'
3038	103+60.00	43.00'
3182	102+35.00	48.00'
3183	103+26.31	46.00'
3193	103+04.88	90.54'
3194	102+43.50	140.08'
3195	102+45.92	180.01'
3196	102+53.90	179.53'
3197	102+68.67	225.00'

R/W COURSE TABLE		
FROM - TO	BEARING	DISTANCE
316 - 2028	N04°48'52"E	617.82'
2028 - 2029	N79°35'26"W	50.29'
2029 - 2065	N04°08'16"W	36.29'
2065 - 2030	N04°08'16"W	9.25'
2030 - 2131	N76°16'09"E	25.30'
2131 - 2033	N50°37'41"E	46.24'
2033 - 2028	S04°48'52"W	90.16'
2033 - 318	N04°48'52"E	483.88'
317 - 325	N04°48'52"E	630.09'
325 - 2066	N04°48'52"E	36.07'
2066 - 322	N04°48'52"E	30.06'
322 - 2078	N04°48'52"E	22.56'
322 - 2000	S88°45'06"E	28.00'
2000 - 2001	N27°10'38"W	20.94'
2001 - 2078	N74°54'40"W	17.13'
2078 - 319	N04°48'52"E	473.10'

TLE COURSE TABLE		
FROM - TO	BEARING	DISTANCE
3022 - 3023	N04°16'45"E	360.37'
3023 - 3182	N06°24'04"E	135.06'
3182 - 2029	N61°29'24"W	37.16'
2030 - 3193	N04°08'16"W	10.00'
3193 - 3183	N68°45'30"E	49.53'
3183 - 3024	N05°00'02"E	448.69'
325 - 3197	S88°45'06"E	191.28'
3197 - 3196	S76°42'43"W	47.81'
3196 - 3195	S01°14'54"W	8.00'
3195 - 3194	N88°45'06"W	40.00'
3194 - 3016	N01°14'54"E	8.00'
3016 - 3015	S89°24'31"W	91.99'
3015 - 2606	S04°23'51"W	512.64'
2607 - 325	N04°48'52"E	526.90'
3039 - 3038	S05°00'02"W	450.00'
3038 - 3037	S39°18'07"E	47.25'
3037 - 2000	N88°45'06"W	13.88'

REVISION DATE 7/29/19 NC
1/23/20 NC

DATE: MAY 2017

GRID FACTOR N/A

SCALE, FEET
0 20 40

HWY: STH 47

COUNTY: MENOMINEE

STATE R/W PROJECT NUMBER 9650-17-20/22

CONSTRUCTION PROJECT NUMBER 9650-17-70

PLAT SHEET 4.09

PS&E SHEET 254

E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\040103-27_RP.DWG PLOT DATE : 1/23/2020 2:56 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 75

PI STA 103+26.31
Y = 56324.675
X = 290900.193
Δ = 00°43'01"

PI STA 108+16.38
Y = 56812.881
X = 290942.909
Δ = 01°06'38"

CALCULATED
LOCATION
Y= 56306.647
X=290116.358

PI STA 109+04.73
Y = 56900.727
X = 290952.315
Δ = 00°08'46"

2" IRON PIPE
FOUND
Y= 58940.833
X=290143.594

S00°35'33"W, 2634.33'
519.81'
2114.52'

R/W STATION/OFFSET TABLE		
POINT	STATION	OFFSET
318	108+18.23	33.44'
319	108+19.72	32.54'
320	111+04.04	36.86'
321	111+04.06	29.14'

TLE STATION/OFFSET TABLE		
POINT	STATION	OFFSET
3024	107+75.00	46.00'
3027	110+25.00	47.00'
3028	111+00.00	40.00'
3039	108+10.00	43.00'
3040	111+00.00	38.00'
3198	108+25.00	40.00'

PI STA 119+72.05
Y = 57961.687
X = 291068.643
Δ = 01°02'15"

TOWN OF MENOMINEE

SW-SW SEC 25

11
MENOMINEE INDIAN SCHOOL DISTRICT
LOT 1 CSM
VOL. 1 PG. 83

14

204 NSIGHT TOWER HOLDINGS II, LLC
15' UTILITY EASEMENT
VOL. 102 PG. 135 DOC. 34327
PARCEL 11

GUY KESHENA, A SINGLE MAN, FOR AND ON BEHALF OF MITW
LOT 1 CSM 195
VOL. 2 PG. 195

S89°24'27"E 788.17'

TLE FOR GRADING

203 MITW UTILITIES

FRONTIER COMMUNICATIONS OF WISCONSIN, LLC

WISCONSIN POWER AND LIGHT COMPANY

3024 318 3198 3027 3028 320

MATCHLINE STA. 106+00

STH 47

N05°00'02"E

107+00 108+00 PI: 108+16.38 N06°06'40"E 109+00 PI: 109+04.73 110+00 111+00

N06°15'26"E

99' 33' 33'

SLOPE INTERCEPT

REFERENCE LINE
PROJECT T09-1(22)

MATCHLINE STA. 111+50

MITW UTILITIES

WISCONSIN POWER AND LIGHT COMPANY

3039 319 321 3040

SIGN

TLE FOR GRADING

11
MENOMINEE INDIAN SCHOOL DISTRICT

200 FRONTIER COMMUNICATIONS OF WISCONSIN, LLC
EASEMENT
VOL. 33 PG. 339 DOC. 10311
PARCEL 11

SW-SW SEC 25

BLOCK 1

SCHOOL

ASSESSOR'S PLAT NO. 1 OF THE UNINCORPORATED VILLAGE OF KESHENA

R/W COURSE TABLE		
FROM - TO	BEARING	DISTANCE
2033 - 318	N04°48'52"E	483.88'
318 - 320	CURVE	
320 - 779	N06°14'24"E	193.65'
2078 - 319	N04°48'52"E	473.10'
319 - 321	CURVE	
321 - 2024	N06°14'24"E	72.59'

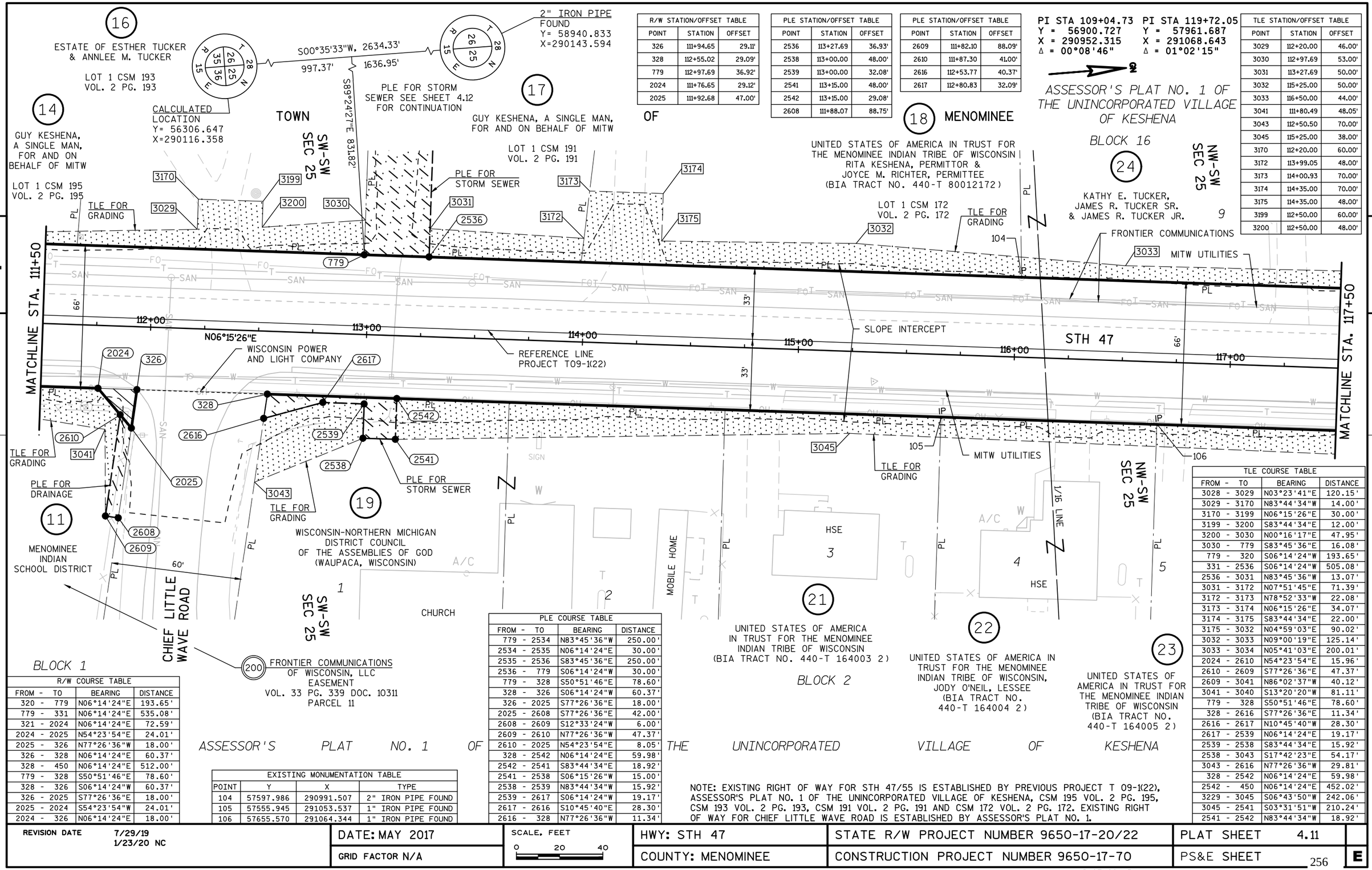
R/W CURVE DATA TABLE				
FROM - TO	RADIUS	LENGTH	CHORD	CHORD BEARING
318 - 320	11492.30'	285.93'	285.92'	N05°31'38"E
319 - 321	11426.30'	284.29'	284.28'	N05°31'38"E

TLE COURSE TABLE		
FROM - TO	BEARING	DISTANCE
3183 - 3024	N05°00'02"E	448.69'
3024 - 3198	N11°56'03"E	51.15'
3198 - 3027	N04°11'44"E	200.23'
3027 - 3028	N11°35'22"E	75.33'
3028 - 3029	N03°23'41"E	120.15'
3041 - 3040	S13°20'20"W	81.11'
3040 - 3039	S05°11'45"W	289.10'
3039 - 3038	S05°00'02"W	450.00'

NOTE: EXISTING RIGHT OF WAY FOR STH 47/55 IS ESTABLISHED BY PREVIOUS PROJECT T 09-1(22), ASSESSOR'S PLAT NO. 1 OF THE UNINCORPORATED VILLAGE OF KESHENA CSM VOL. 1 PG. 83 AND CSM 195 VOL. 2 PG. 195.

REVISION DATE 7/29/19 NC 1/23/20 NC	DATE: MAY 2017	SCALE, FEET 0 20 40	HWY: STH 47	STATE R/W PROJECT NUMBER 9650-17-20/22	PLAT SHEET 4.10
	GRID FACTOR N/A		COUNTY: MENOMINEE	CONSTRUCTION PROJECT NUMBER 9650-17-70	PS&E SHEET 255 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\040103-27_RP.DWG PLOT DATE : 1/23/2020 2:56 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : ********** WISDOT/CADDS SHEET 75



R/W STATION/OFFSET TABLE		
POINT	STATION	OFFSET
326	111+94.65	29.11'
328	112+55.02	29.09'
779	112+97.69	36.92'
2024	111+76.65	29.12'
2025	111+92.68	47.00'

PLE STATION/OFFSET TABLE		
POINT	STATION	OFFSET
2536	113+27.69	36.93'
2538	113+00.00	48.00'
2539	113+00.00	32.08'
2541	113+15.00	48.00'
2542	113+15.00	29.08'
2608	111+88.07	88.75'

PLE STATION/OFFSET TABLE		
POINT	STATION	OFFSET
2609	111+82.10	88.09'
2610	111+87.30	41.00'
2616	112+53.77	40.37'
2617	112+80.83	32.09'

TLE STATION/OFFSET TABLE		
POINT	STATION	OFFSET
3029	112+20.00	46.00'
3030	112+97.69	53.00'
3031	113+27.69	50.00'
3032	115+25.00	50.00'
3033	116+50.00	44.00'
3041	111+80.49	48.05'
3043	112+50.50	70.00'
3045	115+25.00	38.00'
3170	112+20.00	60.00'
3172	113+99.05	48.00'
3173	114+00.93	70.00'
3174	114+35.00	70.00'
3175	114+35.00	48.00'
3199	112+50.00	60.00'
3200	112+50.00	48.00'

R/W COURSE TABLE		
FROM - TO	BEARING	DISTANCE
320 - 779	N06°14'24"E	193.65'
779 - 331	N06°14'24"E	535.08'
321 - 2024	N06°14'24"E	72.59'
2024 - 2025	N54°23'54"E	24.01'
2025 - 326	N77°26'36"W	18.00'
326 - 328	N06°14'24"E	60.37'
328 - 450	N06°14'24"E	512.00'
779 - 328	S50°51'46"E	78.60'
328 - 326	S06°14'24"W	60.37'
326 - 2025	S77°26'36"E	18.00'
2025 - 2024	S54°23'54"W	24.01'
2024 - 326	N06°14'24"E	18.00'

EXISTING MONUMENTATION TABLE			
POINT	Y	X	TYPE
104	57597.986	290991.507	2" IRON PIPE FOUND
105	57555.945	291053.537	1" IRON PIPE FOUND
106	57655.570	291064.344	1" IRON PIPE FOUND

PLE COURSE TABLE		
FROM - TO	BEARING	DISTANCE
779 - 2534	N83°45'36"W	250.00'
2534 - 2535	N06°14'24"E	30.00'
2535 - 2536	S83°45'36"E	250.00'
2536 - 779	S06°14'24"W	30.00'
779 - 328	S50°51'46"E	78.60'
328 - 326	S06°14'24"W	60.37'
326 - 2025	S77°26'36"E	18.00'
2025 - 2608	S77°26'36"E	42.00'
2608 - 2609	S12°33'24"W	6.00'
2609 - 2610	N77°26'36"W	47.37'
2610 - 2025	N54°23'54"E	8.05'
328 - 2542	N06°14'24"E	59.98'
2542 - 2541	S83°44'34"E	18.92'
2541 - 2538	S06°15'26"W	15.00'
2538 - 2539	N83°44'34"W	15.92'
2539 - 2617	S06°14'24"W	19.17'
2617 - 2616	S10°45'40"E	28.30'
2616 - 328	N77°26'36"W	11.34'

TLE COURSE TABLE		
FROM - TO	BEARING	DISTANCE
3028 - 3029	N03°23'41"E	120.15'
3029 - 3170	N83°44'34"W	14.00'
3170 - 3199	N06°15'26"E	30.00'
3199 - 3200	S83°44'34"E	12.00'
3200 - 3030	N00°16'17"E	47.95'
3030 - 779	S83°45'36"E	16.08'
779 - 320	S06°14'24"W	193.65'
331 - 2536	S06°14'24"W	505.08'
2536 - 3031	N83°45'36"W	13.07'
3031 - 3172	N07°51'45"E	71.39'
3172 - 3173	N78°52'33"W	22.08'
3173 - 3174	N06°15'26"E	34.07'
3174 - 3175	S83°44'34"E	22.00'
3175 - 3032	N04°59'03"E	90.02'
3032 - 3033	N09°00'19"E	125.14'
3033 - 3034	N05°41'03"E	200.01'
2024 - 2610	N54°23'54"E	15.96'
2610 - 2609	S77°26'36"E	47.37'
2609 - 3041	N86°02'37"W	40.12'
3041 - 3040	S13°20'20"W	81.11'
779 - 328	S50°51'46"E	78.60'
328 - 2616	S77°26'36"E	11.34'
2616 - 2617	N10°45'40"W	28.30'
2617 - 2539	N06°14'24"E	19.17'
2539 - 2538	S83°44'34"E	15.92'
2538 - 3043	S17°42'23"E	54.17'
3043 - 2616	N77°26'36"W	29.81'
328 - 2542	N06°14'24"E	59.98'
2542 - 450	N06°14'24"E	452.02'
3229 - 3045	S06°43'50"W	242.06'
3045 - 2541	S03°31'51"W	210.24'
2541 - 2542	N83°44'34"W	18.92'

NOTE: EXISTING RIGHT OF WAY FOR STH 47/55 IS ESTABLISHED BY PREVIOUS PROJECT T 09-1(22), ASSESSOR'S PLAT NO. 1 OF THE UNINCORPORATED VILLAGE OF KESHENA, CSM 195 VOL. 2 PG. 195, CSM 193 VOL. 2 PG. 193, CSM 191 VOL. 2 PG. 191 AND CSM 172 VOL. 2 PG. 172. EXISTING RIGHT OF WAY FOR CHIEF LITTLE WAVE ROAD IS ESTABLISHED BY ASSESSOR'S PLAT NO. 1.

REVISION DATE 7/29/19 1/23/20 NC	DATE: MAY 2017	SCALE, FEET 0 20 40	HWY: STH 47	STATE R/W PROJECT NUMBER 9650-17-20/22	PLAT SHEET 4.11
	GRID FACTOR N/A		COUNTY: MENOMINEE	CONSTRUCTION PROJECT NUMBER 9650-17-70	PS&E SHEET 256 E

CALCULATED
LOCATION
Y= 56306.647
X=290116.358

S00°35'33"W, 2634.33'
997.37'
1636.96'

2" IRON PIPE
FOUND
Y= 58940.833
X=290143.594

IDENTICAL POINTS

S89°24'27"E 831.82'

PL

2534

2535

PLE FOR STORM SEWER
FROM SHEET 4.11

PLE FOR
STORM SEWER

16

ESTATE OF ESTHER TUCKER
& ANNLEE M. TUCKER

LOT 1 CSM 193
VOL. 2 PG. 193

HSE

17

GUY KESHENA, A SINGLE MAN,
FOR AND ON BEHALF OF MITW

LOT 1 CSM 191
VOL. 2 PG. 191

18

UNITED STATES OF AMERICA
IN TRUST FOR THE MENOMINEE
INDIAN TRIBE OF WISCONSIN,
RITA KESHENA, PERMITTOR & JOYCE M.
RICHTER, PERMITTEE
(BIA TRACT NO. 440-T 80012172)

SW-SW
SEC 25

TOWN OF MENOMINEE

NOTE: EXISTING RIGHT OF WAY FOR STH 47/55 IS ESTABLISHED BY PREVIOUS PROJECT T 09-1(22), ASSESSOR'S PLAT NO. 1 OF THE UNINCORPORATED VILLAGE OF KESHENA AND CSM 193 VOL. 2 PG. 193.

R/W STATION/OFFSET TABLE		
POINT	STATION	OFFSET
320	111+04.04	36.86'

PLE STATION/OFFSET TABLE		
POINT	STATION	OFFSET
779	112+97.69	36.92'
2534	112+97.62	286.92'
2535	113+27.62	286.93'
2536	113+27.69	36.93'

TLE STATION/OFFSET TABLE		
POINT	STATION	OFFSET
3029	112+20.00	46.00'
3030	112+97.69	53.00'
3031	113+27.69	50.00'
3170	112+20.00	60.00'
3172	113+99.05	48.00'
3173	114+00.93	70.00'
3174	114+35.00	70.00'
3175	114+35.00	48.00'
3199	112+50.00	60.00'
3200	112+50.00	48.00'

PI STA 109+04.73
Y = 56900.727
X = 290952.315
Δ = 00°08'46"

PI STA 119+72.05
Y = 57961.687
X = 291068.643
Δ = 01°02'15"

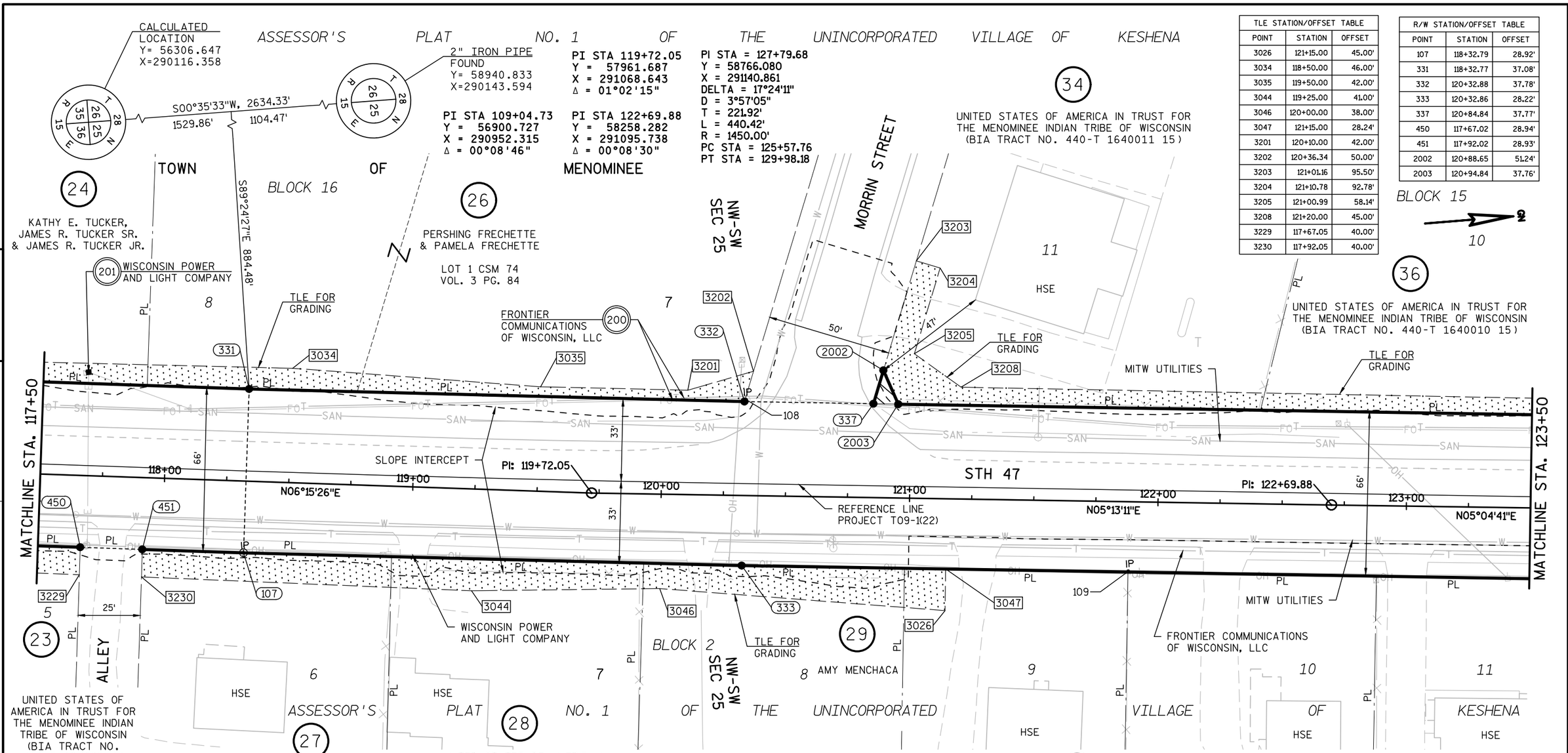
320
3170
3199
3200
3029
TLE FOR
GRADING
3030
3031
2536
779
3172
3173
3174
3175
SLOPE INTERCEPT
TLE FOR
GRADING
PL
T
FO
SAN
W
OH
STH 47
112+00
113+00
114+00
115+00
N06°15'26"E
2024
326
328
2617
2542
66'
REFERENCE LINE
PROJECT T09-1(22)

R/W COURSE TABLE		
FROM - TO	BEARING	DISTANCE
320 - 779	N06°14'24"E	193.65'
779 - 331	N06°14'24"E	535.08'

PLE COURSE TABLE		
FROM - TO	BEARING	DISTANCE
779 - 2534	N83°45'36"W	250.00'
2534 - 2535	N06°14'24"E	30.00'
2535 - 2536	S83°45'36"E	250.00'
2536 - 779	S06°14'24"W	30.00'

TLE COURSE TABLE		
FROM - TO	BEARING	DISTANCE
3028 - 3029	N03°23'41"E	120.15'
3029 - 3170	N83°44'34"W	14.00'
3170 - 3199	N06°15'26"E	30.00'
3199 - 3200	S83°44'34"E	12.00'
3200 - 3030	N00°16'17"E	47.95'
3030 - 779	S83°45'36"E	16.08'
779 - 320	S06°14'24"W	193.65'
331 - 2536	S06°14'24"W	505.08'
2536 - 3031	N83°45'36"W	13.07'
3031 - 3172	N07°51'45"E	71.39'
3172 - 3173	N78°52'33"W	22.08'
3173 - 3174	N06°15'26"E	34.07'
3174 - 3175	S83°44'34"E	22.00'
3175 - 3032	N04°59'03"E	90.02'

REVISION DATE 7/29/19 1/23/20 NC	DATE: MAY 2017 GRID FACTOR N/A	SCALE, FEET 0 20 40	HWY: STH 47 COUNTY: MENOMINEE	STATE R/W PROJECT NUMBER 9650-17-20/22 CONSTRUCTION PROJECT NUMBER 9650-17-70	PLAT SHEET 4.12 PS&E SHEET 257 E



TLE STATION/OFFSET TABLE		
POINT	STATION	OFFSET
3026	121+15.00	45.00'
3034	118+50.00	46.00'
3035	119+50.00	42.00'
3044	119+25.00	41.00'
3046	120+00.00	38.00'
3047	121+15.00	28.24'
3201	120+10.00	42.00'
3202	120+36.34	50.00'
3203	121+01.16	95.50'
3204	121+10.78	92.78'
3205	121+00.99	58.14'
3208	121+20.00	45.00'
3229	117+67.05	40.00'
3230	117+92.05	40.00'

R/W STATION/OFFSET TABLE		
POINT	STATION	OFFSET
107	118+32.79	28.92'
331	118+32.77	37.08'
332	120+32.88	37.78'
333	120+32.86	28.22'
337	120+84.84	37.77'
450	117+67.02	28.94'
451	117+92.02	28.93'
2002	120+88.65	51.24'
2003	120+94.84	37.76'

R/W COURSE TABLE		
FROM - TO	BEARING	DISTANCE
779 - 331	N06°14'24"E	535.08'
331 - 332	CURVE	
332 - 337	N05°14'24"E	51.95'
337 - 2002	N68°59'36"W	14.00'
2002 - 2003	N70°32'38"E	14.83'
2003 - 337	S05°14'24"W	10.00'
2003 - 2039	N05°14'24"E	462.83'
328 - 450	N06°14'24"E	512.00'
450 - 451	N06°14'24"E	25.00'
451 - 107	N06°14'24"E	40.77'
107 - 333	CURVE	
333 - 2040	N05°14'24"E	524.97'

EXISTING MONUMENTATION TABLE			
POINT	Y	X	TYPE
107	57820.105	291082.213	2" IRON PIPE FOUND
108	58026.539	291035.882	CONC. MON./ALUM. CAP
109	58174.723	291116.175	1" IRON PIPE FOUND

R/W CURVE DATA TABLE				
FROM - TO	RADIUS	LENGTH	CHORD	CHORD BEARING
331 - 332	11426.30'	199.43'	199.42'	N05°44'24"E
107 - 333	11492.30'	200.58'	200.58'	N05°44'24"E

TLE COURSE TABLE		
FROM - TO	BEARING	DISTANCE
3033 - 3034	N05°41'03"E	200.01'
3034 - 3035	N08°32'52"E	100.08'
3035 - 3201	N05°35'57"E	59.24'
3201 - 3202	N11°40'40"W	27.52'
3202 - 332	S68°59'36"E	12.69'
2002 - 3203	N68°59'36"W	46.00'
3203 - 3204	N21°00'24"E	10.00'
3204 - 3205	S68°59'36"E	36.00'
3205 - 3208	N39°52'13"E	23.11'
3208 - 3053	N05°23'10"E	254.89'
2542 - 450	N06°14'24"E	452.02'

TLE COURSE TABLE (CONTINUED)		
FROM - TO	BEARING	DISTANCE
450 - 3229	S83°53'36"E	11.06'
3229 - 3045	S06°43'50"W	242.06'
331 - 107	S83°45'35"E	66.00'
333 - 3047	N05°14'24"E	82.14'
3047 - 3026	S84°46'49"E	16.76'
3026 - 3046	S08°42'10"W	115.21'
3046 - 3044	S03°36'00"W	75.76'
3044 - 3230	S06°41'17"W	132.96'
3230 - 451	N83°53'36"W	11.07'

NOTE: EXISTING RIGHT OF WAY FOR STH 47/55 IS ESTABLISHED BY PREVIOUS PROJECT T 09-1(22), ASSESSOR'S PLAT NO. 1 OF THE UNINCORPORATED VILLAGE OF KESHENA AND CSM 74 VOL. 3 PG. 84. EXISTING RIGHT OF WAY FOR MORRIN STREET IS ESTABLISHED BY ASSESSOR'S PLAT NO. 1.

REVISION DATE 7/29/19 1/23/20 NC	DATE: MAY 2017	SCALE, FEET 0 20 40	HWY: STH 47	STATE R/W PROJECT NUMBER 9650-17-20/22	PLAT SHEET 4.13	
	GRID FACTOR N/A		COUNTY: MENOMINEE	CONSTRUCTION PROJECT NUMBER 9650-17-70	PS&E SHEET 258	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\040103-27_RP.DWG PLOT DATE : 1/23/2020 2:56 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 75

R/W STATION/OFFSET TABLE		
POINT	STATION	OFFSET
334	126+10.03	35.82'
337	120+84.84	37.77'
345	127+12.40	32.90'
346	127+12.74	49.89'
795	125+72.27	29.23'

R/W STATION/OFFSET TABLE		
POINT	STATION	OFFSET
796	125+90.28	45.10'
797	126+48.25	49.60'
798	126+70.14	32.15'
2039	125+57.76	36.89'
2040	125+57.76	29.11'

PLE STATION/OFFSET TABLE		
POINT	STATION	OFFSET
2544	125+40.00	73.00'
2545	125+40.00	36.94'
2547	125+60.00	73.00'
2548	125+60.00	36.88'
2550	127+95.00	48.00'
2551	127+95.00	34.06'
2553	128+05.00	48.00'
2554	128+05.00	34.09'

S00°35'33"W, 2634.33'

2302.34' 331.99'

2" IRON PIPE FOUND
Y= 58940.833
X=290143.594

CALCULATED LOCATION
Y= 56306.647
X=290116.358

NOTE: EXISTING RIGHT OF WAY FOR STH 47/55 IS ESTABLISHED BY PREVIOUS PROJECT T 09-1(22), ASSESSOR'S PLAT NO. 1 OF THE UNINCORPORATED VILLAGE OF KESHENA AND TRANSPORTATION PROJECT PLAT 9650-15-21-4.01. EXISTING RIGHT OF WAY FOR CHIEF CARRON ROAD IS ESTABLISHED BY ASSESSOR'S PLAT NO. 1 AND TRANSPORTATION PROJECT PLAT 9650-15-21-4.01.

TLE STATION/OFFSET TABLE		
POINT	STATION	OFFSET
3049	125+89.97	58.07'
3050	125+80.00	47.00'
3053	123+75.00	44.00'
3178	126+33.00	50.00'
3179	126+33.00	60.00'
3180	126+58.00	60.00'
3181	126+58.00	50.00'

EXISTING MONUMENTATION TABLE			
POINT	Y	X	TYPE
142	58557.984	291152.355	3/4" REBAR FOUND
144	58636.854	291173.912	3/4" REBAR FOUND
145	58656.368	291159.354	3/4" REBAR FOUND

ASSESSOR'S PLAT NO. 1 OF THE UNINCORPORATED VILLAGE OF KESHENA

PI STA 122+69.88
Y = 58258.282
X = 291095.738
Δ = 00°08'30"

PI STA = 127+79.68
Y = 58766.080
X = 291140.861
DELTA = 17°24'11"
D = 3°57'05"
T = 221.92'
L = 440.42'
R = 1450.00'
PC STA = 125+57.76
PT STA = 129+98.18

TOWN OF MENOMINEE

UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN (BIA TRACT NO. 440-T 1640010 15)

UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN, JOSEPH G. WAUKECHON JR. & MILA MAE WAUKECHON, ASSIGNEE (BIA TRACT NO. 440-T 164009 15)

S89°24'27"E 949.02'

NW-SW SEC 25

BLOCK 15

GAR.

HSE 8

HSE 7

PLE FOR DRAINAGE

TLE FOR GRADING

SLOPE INTERCEPT

MITW UTILITIES

FRONTIER COMMUNICATIONS OF WISCONSIN, LLC

STH 47

N05°04'41"E

PC: 125+57.76

PI: 127+79.68

REFERENCE LINE PROJECT T09-1(22)

MATCHLINE STA. 123+50

MATCHLINE STA. 129+00

WISCONSIN POWER AND LIGHT COMPANY

CHIEF CARRON ROAD

NW-SW SEC 25

SOSAEH WAUKECHON HSE

MENOMINEE PROPANE, INC.

MENOMINEE GAS, INC.

OFFICE

RONALD SKENANDORE & CAROL SKENANDORE

BLOCK 2

BLOCK 3

TLE COURSE TABLE		
FROM - TO	BEARING	DISTANCE
3208 - 3053	N05°23'10"E	254.89'
3053 - 2544	N04°53'25"W	167.53'
2544 - 2545	S84°55'19"E	36.06'
2545 - 2003	S05°14'24"W	445.07'
334 - 2548	S05°14'24"W	48.78'
2548 - 2547	N85°00'38"W	36.12'
2547 - 3050	N58°11'20"E	32.30'
3050 - 3178	N00°11'57"W	51.31'
3178 - 3179	N87°53'42"W	10.00'
3179 - 3180	N01°36'40"E	23.97'
3180 - 3181	S88°52'58"E	10.00'
3181 - 346	N00°09'02"E	52.85'
334 - 796	S72°50'43"E	83.31'
796 - 3049	S84°45'36"E	12.97'
3049 - 2040	S45°33'21"W	44.04'
2040 - 795	N05°14'24"E	14.80'
334 - 797	N68°02'50"E	93.66'
797 - 798	N36°43'26"W	28.48'
798 - 2551	CURVE	
2551 - 2550	N85°42'13"E	13.94'
2550 - 797	S02°00'07"E	151.63'
3060 - 2553	S10°37'09"E	160.12'
2553 - 2554	S85°18'31"W	13.91'
2554 - 2071	CURVE	

R/W COURSE TABLE		
FROM - TO	BEARING	DISTANCE
2003 - 2039	N05°14'24"E	462.83'
2039 - 334	N05°14'24"E	50.96'
334 - 345	CURVE	
345 - 346	N89°54'24"W	17.00'
346 - 352	CURVE	
346 - 2070	CURVE	
333 - 2040	N05°14'24"E	524.97'
2040 - 795	N05°14'24"E	14.80'
795 - 796	N44°48'46"E	24.36'
796 - 797	N06°56'47"E	60.03'
797 - 798	N36°43'26"W	28.48'
798 - 2004	CURVE	
798 - 2071	CURVE	

R/W CURVE DATA TABLE				
FROM - TO	RADIUS	LENGTH	CHORD	CHORD BEARING
334 - 345	1113.28'	100.00'	99.97'	N02°40'00"E
346 - 352	1096.28'	444.74'	441.69'	N11°31'42"W
346 - 2070	1096.28'	227.03'	226.62'	N05°50'21"W
798 - 2004	1179.28'	303.31'	302.47'	N05°14'16"W
798 - 2071	1179.28'	267.31'	266.73'	N04°21'48"W

PLE CURVE DATA TABLE				
FROM - TO	RADIUS	LENGTH	CHORD	CHORD BEARING
798 - 2551	1179.28'	127.75'	127.69'	N00°58'23"W
2551 - 2554	1179.28'	10.24'	10.24'	N04°19'30"W

TLE CURVE DATA TABLE				
FROM - TO	RADIUS	LENGTH	CHORD	CHORD BEARING
334 - 345	1113.28'	100.00'	99.97'	S02°40'00"W
798 - 2551	1179.28'	127.75'	127.69'	N00°58'23"W
2054 - 2071	1179.28'	129.32'	129.26'	N07°42'55"W

PLE COURSE TABLE		
FROM - TO	BEARING	DISTANCE
334 - 2548	S05°14'24"W	48.78'
2548 - 2545	S05°14'24"W	19.94'
2545 - 2544	N84°55'19"W	36.06'
2544 - 2547	N05°04'24"E	19.89'
2547 - 2548	S85°00'38"E	36.12'
334 - 797	N68°02'50"E	93.66'
797 - 798	N36°43'26"W	28.48'
798 - 2551	CURVE	
2551 - 2554	CURVE	
2554 - 2553	N85°18'31"E	13.91'
2553 - 2550	S04°29'38"E	10.33'
2550 - 2551	S85°42'13"W	13.94'

REVISION DATE 7/29/19 1/23/20	DATE: MAY 2017	SCALE, FEET 0 20 40	HWY: STH 47	STATE R/W PROJECT NUMBER 9650-17-20/22	PLAT SHEET 4.14
	GRID FACTOR N/A		COUNTY: MENOMINEE	CONSTRUCTION PROJECT NUMBER 9650-17-70	PS&E SHEET 259 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\040103-27_RP.DWG PLOT DATE : 1/23/2020 2:57 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 75

ASSESSOR'S PLAT NO. 1 OF THE UNINCORPORATED VILLAGE OF KESHENA

NOTE: EXISTING RIGHT OF WAY FOR STH 47/55 IS ESTABLISHED BY PREVIOUS PROJECT T 09-1(22), ASSESSOR'S PLAT NO. 1 OF THE UNINCORPORATED VILLAGE OF KESHENA AND CSM 210 VOL. 4 PG. 16-18. EXISTING RIGHT OF WAY FOR WOLF COURT AND OUR CHILDRENS ROAD IS ESTABLISHED BY ASSESSOR'S PLAT NO. 1 AND CSM 210 VOL. 4 PG. 16-18. EXISTING RIGHT OF WAY FOR BROOKS LANE IS ESTABLISHED BY ASSESSOR'S PLAT NO. 1.

R/W STATION/OFFSET TABLE		
POINT	STATION	OFFSET
350	132+46.23	53.07'
352	131+77.32	53.51'
480	132+44.27	29.91'
485	131+85.48	29.51'
499	130+43.38	30.39'
500	129+82.23	31.60'
2004	129+66.58	32.05'
2005	129+78.15	47.05'
2006	130+41.17	37.00'
2008	130+52.00	37.00'
2009	130+52.00	30.27'
2010	131+65.96	29.47'
2011	131+83.85	44.91'
2041	129+98.18	51.95'
2042	130+32.96	52.45'
2070	129+47.75	50.49'
2071	129+31.37	32.90'

PLE STATION/OFFSET TABLE		
POINT	STATION	OFFSET
481	132+34.46	92.91'
486	131+80.83	74.80'
2522	132+65.00	56.00'
2523	133+60.00	50.00'
2556	131+62.29	72.88'

TLE STATION/OFFSET TABLE		
POINT	STATION	OFFSET
3060	129+60.29	40.00'
3061	129+75.03	59.09'
3062	130+30.96	68.38'
3064	130+57.00	39.00'
3065	131+65.13	39.00'
3227	131+66.02	76.17'
3228	131+60.00	53.53'

R/W CURVE DATA TABLE				
FROM - TO	RADIUS	LENGTH	CHORD	CHORD BEARING
346 - 352	1096.28'	444.74'	441.69'	N11°31'42"W
346 - 2070	1096.28'	227.03'	226.62'	N05°50'21"W
2070 - 2041	1096.28'	48.68'	48.67'	N13°02'38"W
2041 - 2042	1096.28'	32.34'	32.34'	N15°09'40"W
2042 - 352	1096.28'	136.69'	136.60'	N19°34'42"W
350 - 349	1096.28'	175.40'	175.21'	N31°08'36"W
350 - 2043	1096.28'	147.46'	147.35'	N30°24'47"W
798 - 2004	1179.28'	303.31'	302.47'	N05°14'16"W
798 - 2071	1179.28'	267.31'	266.73'	N04°21'48"W
2071 - 2004	1179.28'	36.00'	36.00'	N11°43'53"W
2009 - 2010	1179.28'	117.35'	117.30'	N19°44'22"W
480 - 347	1179.28'	189.74'	189.54'	N31°07'03"W
480 - 2044	1179.28'	162.38'	162.25'	N30°27'10"W
2004 - 500	1179.28'	16.00'	16.00'	N12°59'41"W
2071 - 500	1179.28'	52.00'	52.00'	N12°07'13"W
499 - 2009	1179.28'	8.88'	8.88'	N16°40'23"W
499 - 2010	1179.28'	126.23'	126.17'	N19°31'26"W
2010 - 485	1179.28'	20.10'	20.10'	N23°04'43"W

TLE COURSE TABLE		
FROM - TO	BEARING	DISTANCE
352 - 3227	CURVE	
3227 - 3228	S81°30'27"W	23.33'
3228 - 352	N42°02'54"E	25.00'
2554 - 2071	CURVE	
2071 - 2004	CURVE	
2004 - 2005	N40°16'59"E	19.13'
2005 - 3061	S86°26'22"E	12.48'
3061 - 3060	S40°16'59"W	24.43'
3060 - 2553	S10°37'09"E	160.12'
2010 - 3065	N72°33'57"E	9.57'
3065 - 3064	S19°28'19"E	112.29'
3064 - 3062	S62°27'57"E	39.76'
3062 - 2006	N86°26'22"W	32.74'

TLE CURVE DATA TABLE				
FROM - TO	RADIUS	LENGTH	CHORD	CHORD BEARING
2070 - 352	1096.28'	217.71'	217.35'	N17°27'40"W
352 - 3227	1096.28'	16.39'	16.39'	S22°43'19"E
2054 - 2071	1179.28'	129.32'	129.26'	N07°42'55"W

EXISTING MONUMENTATION TABLE			
POINT	Y	X	TYPE
136	59034.724	291111.075	MAG NAIL FOUND
137	59172.126	291060.924	MAG NAIL FOUND

R/W COURSE TABLE		
FROM - TO	BEARING	DISTANCE
346 - 352	CURVE	
346 - 2070	CURVE	
2070 - 2041	CURVE	
2041 - 2042	CURVE	
2042 - 352	CURVE	
352 - 350	N24°51'18"W	65.23'
350 - 349	CURVE	
350 - 2043	CURVE	
798 - 2004	CURVE	
798 - 2071	CURVE	
2071 - 2004	CURVE	
2004 - 2005	N40°16'59"E	19.13'
2005 - 500	N86°26'22"W	16.00'
500 - 499	N14°55'14"W	63.26'
499 - 2006	S86°26'22"E	6.99'

R/W COURSE TABLE (CONTINUED)		
FROM - TO	BEARING	DISTANCE
2006 - 2008	N15°46'40"W	11.23'
2008 - 2009	S73°54'44"W	6.73'
2009 - 2010	CURVE	
2010 - 2011	N16°37'52"E	24.14'
2011 - 485	S72°33'57"W	15.50'
485 - 480	N25°02'15"W	60.53'
480 - 347	CURVE	
480 - 2044	CURVE	
2070 - 2071	S88°57'52"E	84.96'
2071 - 500	CURVE	
2004 - 500	CURVE	
499 - 2009	CURVE	
499 - 2010	CURVE	
2010 - 485	CURVE	

PLE COURSE TABLE		
FROM - TO	BEARING	DISTANCE
2011 - 486	N72°33'57"E	30.06'
486 - 2556	S17°26'03"E	20.00'
2556 - 2010	S72°33'57"W	43.58'
2010 - 2011	N16°37'52"E	24.14'
2524 - 2523	S35°26'44"E	77.08'
2523 - 2522	S34°26'36"E	100.18'
2522 - 481	S75°46'28"E	49.38'
481 - 480	S72°33'57"W	63.85'

2" IRON PIPE FOUND
Y= 58940.833
X=290143.594

1.5" IRON PIPE BRASS CAP FOUND
Y= 58846.098
X=295384.342

PI STA = 127+79.68
Y = 58766.080
X = 291140.861
DELTA = 17°24'11"
D = 3°57'05"
T = 221.92'
L = 440.42'
R = 1450.00'
PC STA = 125+57.76
PT STA = 129+98.18

PI STA 130+08.15
Y = 58992.627
X = 291091.362
Δ = 02°40'18"

PI STA = 132+19.44
Y = 59196.719
X = 291036.688
DELTA = 21°07'37"
D = 5°43'46"
T = 186.49'
L = 368.73'
R = 1000.00'
PC STA = 130+32.96
PT STA = 134+01.69

PT: 129+98.18
PC: 130+32.96
PI: 130+08.15
PI: 132+19.44

TOWN OF MENOMINEE

BLOCK 15

BLOCK 13

BLOCK 3

OUTLOT 1

NO. 1

MATCHLINE STA. 129+00 NW-SW SEC 25

MATCHLINE STA. 134+00 NW-SW SEC 25

SW-NW SEC 25

BROOKS LANE

WOLF COURT

OUR CHILDRENS ROAD

STH 47

REFERENCE LINE PROJECT T09-1(22)

SLOPE INTERCEPT

MITW UTILITIES

TLE FOR GRADING

PLE FOR DRAINAGE

WISCONSIN POWER AND LIGHT COMPANY

ANTHONY WAUPOCHICK JR. & FAY A. WAUPOCHICK

MENOMINEE INDIAN TRIBE OF WISCONSIN 20' UTILITY EASEMENT VOL. 62 PG. 202 DOC. 23941 PARCEL 44

FRONTIER COMMUNICATIONS OF WISCONSIN, LLC

LOT 1 CSM 210 VOL. 2 PG. 77

LOT 3 CSM 210 VOL. 4 PG. 16-18

RONALD SKENANDORE & CAROL SKENANDORE

UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN (BIA TRACT NO. 440-T 80012078)

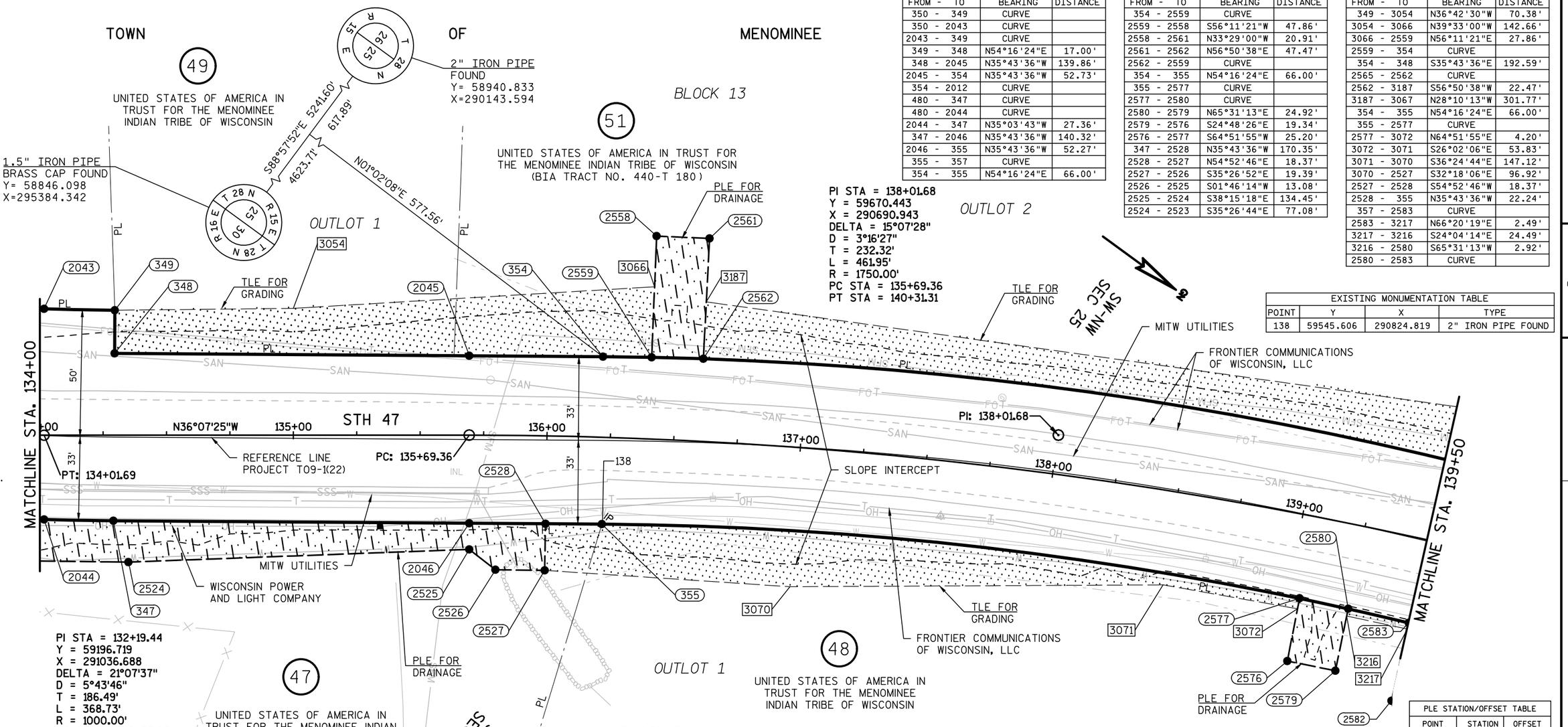
UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN

LOT 1 CSM 210 VOL. 4 PG. 16-18

43 44 46 47

REVISION DATE 7/29/19 1/23/20 NC	DATE: MAY 2017	SCALE, FEET 0 20 40	HWY: STH 47	STATE R/W PROJECT NUMBER 9650-17-20/22	PLAT SHEET 4.15
	GRID FACTOR N/A		COUNTY: MENOMINEE	CONSTRUCTION PROJECT NUMBER 9650-17-70	PS&E SHEET 260 E

ASSESSOR'S PLAT NO. 1 OF THE UNINCORPORATED VILLAGE OF KESHENA



NOTE: EXISTING RIGHT OF WAY FOR STH 47/55 IS ESTABLISHED BY PREVIOUS PROJECT T 09-1(22), ASSESSOR'S PLAT NO. 1 OF THE UNINCORPORATED VILLAGE OF KESHENA AND CSM 210 VOL. 4 PG. 16-18.

R/W COURSE TABLE		
FROM - TO	BEARING	DISTANCE
350 - 349	CURVE	
350 - 2043	CURVE	
2043 - 349	CURVE	
349 - 348	N54°16'24"E	17.00'
348 - 2045	N35°43'36"W	139.86'
2045 - 354	N35°43'36"W	52.73'
354 - 2012	CURVE	
480 - 347	CURVE	
480 - 2044	CURVE	
2044 - 347	N35°03'43"W	27.36'
347 - 2046	N35°43'36"W	140.32'
2046 - 355	N35°43'36"W	52.27'
355 - 357	CURVE	
354 - 355	N54°16'24"E	66.00'

PLE COURSE TABLE		
FROM - TO	BEARING	DISTANCE
354 - 2559	CURVE	
2559 - 2558	S56°11'21"W	47.86'
2558 - 2561	N33°29'00"W	20.91'
2561 - 2562	N56°50'38"E	47.47'
2562 - 2559	CURVE	
354 - 355	N54°16'24"E	66.00'
355 - 2577	CURVE	
2577 - 2580	CURVE	
2580 - 2579	N65°31'13"E	24.92'
2579 - 2576	S24°48'26"E	19.34'
2576 - 2577	S64°51'55"W	25.20'
347 - 2528	N35°43'36"W	170.35'
2528 - 2527	N54°52'46"E	18.37'
2527 - 2526	S35°26'52"E	19.39'
2526 - 2525	S01°46'14"W	13.08'
2525 - 2524	S38°15'18"E	134.45'
2524 - 2523	S35°26'44"E	77.08'

TLE COURSE TABLE		
FROM - TO	BEARING	DISTANCE
349 - 3054	N36°42'30"W	70.38'
3054 - 3066	N39°33'00"W	142.66'
3066 - 2559	N56°11'21"E	27.86'
2559 - 354	CURVE	
354 - 348	S35°43'36"E	192.59'
2565 - 2562	CURVE	
2562 - 3187	S56°50'38"W	22.47'
3187 - 3067	N28°10'13"W	301.77'
354 - 355	N54°16'24"E	66.00'
355 - 2577	CURVE	
2577 - 3072	N64°51'55"E	4.20'
3072 - 3071	S26°02'06"E	53.83'
3071 - 3070	S36°24'44"E	147.12'
3070 - 2527	S32°18'06"E	96.92'
2527 - 2528	S54°52'46"W	18.37'
2528 - 355	N35°43'36"W	22.24'
357 - 2583	CURVE	
2583 - 3217	N66°20'19"E	2.49'
3217 - 3216	S24°04'14"E	24.49'
3216 - 2580	S65°31'13"W	2.92'
2580 - 2583	CURVE	

EXISTING MONUMENTATION TABLE			
POINT	Y	X	TYPE
138	59545.606	290824.819	2" IRON PIPE FOUND

ASSESSOR'S PLAT NO. 1 OF THE UNINCORPORATED VILLAGE OF KESHENA

R/W CURVE DATA TABLE				
FROM - TO	RADIUS	LENGTH	CHORD	CHORD BEARING
350 - 349	1096.28'	175.40'	175.21'	N31°08'36"W
350 - 2043	1096.28'	147.46'	147.35'	N30°24'47"W
2043 - 349	1096.28'	27.94'	27.94'	N34°59'48"W
354 - 2012	1465.69'	364.68'	363.74'	N28°35'56"W
480 - 347	1179.28'	189.74'	189.54'	N31°07'03"W
480 - 2044	1179.28'	162.38'	162.25'	N30°27'10"W
2044 - 347	1179.28'	27.36'	27.36'	N35°03'43"W
355 - 357	1399.69'	359.52'	358.53'	N28°22'06"W

PLE CURVE DATA TABLE				
FROM - TO	RADIUS	LENGTH	CHORD	CHORD BEARING
354 - 2559	1465.69'	19.19'	19.19'	N35°21'06"W
2562 - 2559	1465.69'	20.37'	20.37'	S34°34'42"E
355 - 2577	1399.69'	277.06'	276.61'	N30°03'21"W
2577 - 2580	1399.69'	19.63'	19.63'	N23°59'01"W

TLE CURVE DATA TABLE				
FROM - TO	RADIUS	LENGTH	CHORD	CHORD BEARING
2559 - 354	1465.69'	19.19'	19.19'	S35°21'06"E
2565 - 2562	1465.69'	298.61'	298.09'	S28°20'37"E
354 - 2562	1465.69'	39.56'	39.56'	N34°57'12"W
355 - 2577	1399.69'	277.06'	276.61'	N30°03'21"W
357 - 2583	1399.69'	38.30'	38.30'	S21°47'38"E
2580 - 2583	1399.69'	24.53'	24.53'	N23°04'47"W

R/W STATION/OFFSET TABLE		
POINT	STATION	OFFSET
347	134+29.05	33.72'
348	134+29.50	32.28'
349	134+29.62	49.28'
354	136+21.16	31.73'
355	136+22.68	34.25'
2043	134+01.69	49.83'
2044	134+01.69	33.21'
2045	135+69.36	31.31'
2046	135+69.36	34.69'

TLE STATION/OFFSET TABLE		
POINT	STATION	OFFSET
3054	135+00.00	50.00'
3066	136+40.00	60.00'
3070	137+00.00	55.00'
3071	138+50.00	37.00'
3072	139+05.00	37.00'
3187	136+60.00	55.00'
3216	139+25.00	36.00'
3217	139+50.00	36.00'

PLE STATION/OFFSET TABLE		
POINT	STATION	OFFSET
2524	134+35.00	50.00'
2525	135+69.36	45.00'
2526	135+80.00	53.00'
2527	136+00.00	53.00'
2528	136+00.00	34.63'
2558	136+40.00	80.00'
2559	136+40.00	32.14'
2561	136+60.00	80.00'
2562	136+60.00	32.53'
2576	139+05.00	58.00'
2577	139+05.00	32.80'
2579	139+25.00	58.00'
2580	138+62.87	25.33'

REVISION DATE 7/29/19 1/23/20 NC	DATE: MAY 2017	SCALE, FEET 0 20 40	HWY: STH 47	STATE R/W PROJECT NUMBER 9650-17-20/22	PLAT SHEET 4.16
	GRID FACTOR N/A		COUNTY: MENOMINEE	CONSTRUCTION PROJECT NUMBER 9650-17-70	PS&E SHEET 261 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\040103-27_RP.DWG PLOT DATE : 1/23/2020 2:57 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : ********** WISDOT/CADDS SHEET 75

ASSESSOR'S PLAT NO. 1 OF THE UNINCORPORATED VILLAGE OF KESHENA

NOTE: EXISTING RIGHT OF WAY FOR STH 47/55 IS ESTABLISHED BY PREVIOUS PROJECT T 09-1(22), ASSESSOR'S PLAT NO. 1 OF THE UNINCORPORATED VILLAGE OF KESHENA AND CSM 60 VOL. 3 PG. 64.

R/W CURVE DATA TABLE				
FROM - TO	RADIUS	LENGTH	CHORD	CHORD BEARING
354 - 2012	1465.69'	364.68'	363.74'	N28°35'56"W
355 - 357	1399.69'	359.52'	358.53'	N28°22'06"W
852 - 2012	1465.69'	11.30'	11.30'	S21°15'00"E

PLE CURVE DATA TABLE				
FROM - TO	RADIUS	LENGTH	CHORD	CHORD BEARING
2012 - 2565	1465.69'	26.51'	26.51'	S21°59'20"E
357 - 2586	1399.69'	8.87'	8.87'	S21°11'30"E
2583 - 2586	1399.69'	29.43'	29.43'	N21°58'32"W

TLE CURVE DATA TABLE				
FROM - TO	RADIUS	LENGTH	CHORD	CHORD BEARING
2565 - 2562	1465.69'	298.61'	298.09'	S28°20'37"E
2586 - 357	1399.69'	8.87'	8.87'	N21°11'30"W

OUTLOT 2

51 UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN (BIA TRACT NO. 440-T 180)

TRIBAL OFFICE LOOP

INGRESS/EGRESS EASEMENT PER CSM 60 V.3 P.64

BLOCK 13

UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN; RITA KESHENA, PERMITTOR & DELORES C. WAUKECHON, PERMITTEE (BIA TRACT NO. 440-T 164006 13)

MITW UTILITIES

52 UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN (BIA TRACT NO. 440-T 164002 13)

53 CATHERINE W. HAWPETOSS

GAR.

16.50'

TOWN OF MENOMINEE

SW-NW SEC 25

54 SHANNON CHAPMAN

LOT 1 CSM 60 VOL. 3 PG. 64

56 EAST-WEST UNIVERSITY, INC.

57

HSE

SEE DETAIL A

FRONTIER COMMUNICATIONS OF WISCONSIN, LLC (200)

PLE FOR DRAINAGE

TLE FOR GRADING

FRONTIER COMMUNICATIONS OF WISCONSIN, LLC

REFERENCE LINE PROJECT T09-1(22)

SLOPE INTERCEPT

STH 47

33'

MITW UTILITIES

WISCONSIN POWER AND LIGHT COMPANY

1/16 LINE

MATCHLINE STA. 139+50

MATCHLINE STA. 145+50

140+00 141+00 142+00 143+00 144+00 145+00

N20°59'58"W

PT: 140+31.31

2564 2566 3067 2565 2012 2013 852 511 3093 3094 3232 3231 3233 3095 3080 3083

2583 357 2586 3218 2585 2582 2047 2589 3219 3078 2588 2591 2592 3077 3079

PL SFM SAN FOT OH WT M HO SIGN

48 MENOMINEE ENTERPRISES, INC.

58 SAINT MICHAEL CONGREGATION

ASSESSOR'S PLAT NO. 1 OF THE UNINCORPORATED VILLAGE OF KESHENA

PI STA = 138+01.68
Y = 59670.443
X = 290690.943
DELTA = 15°07'28"
D = 3°16'27"
T = 232.32'
L = 461.95'
R = 1750.00'
PC STA = 135+69.36
PT STA = 140+31.31

PI STA = 148+38.24
Y = 60640.674
X = 290318.519
DELTA = 43°30'05"
D = 13°58'28"
T = 163.58'
L = 311.29'
R = 410.00'
PC STA = 146+74.66
PT STA = 149+85.95

OUTLOT 1

BLOCK 3

T 28 N R 15 E S 25

2" IRON PIPE FOUND
Y= 58940.833
X=290143.594

S88°57'52"E, 5241.60'

411.04'

N01°02'08"E 960.25'

4830.56'

511

T 28 N R 15 E S 30

1.5" IRON PIPE BRASS CAP FOUND
Y= 58846.098
X=295384.342

DETAIL A

R/W COURSE TABLE		
FROM - TO	BEARING	DISTANCE
354 - 2012	CURVE	
2012 - 2013	N75°44'30"W	16.58'
2013 - 852	N61°41'54"E	13.60'
852 - 511	N21°00'36"W	60.49'
852 - 2012	CURVE	
511 - 2016	N21°00'36"W	613.01'
355 - 357	CURVE	
357 - 2047	N21°00'36"W	41.43'
2047 - 359	N21°00'36"W	643.08'

PLE COURSE TABLE		
FROM - TO	BEARING	DISTANCE
2012 - 2565	CURVE	
2565 - 2564	S66°26'13"W	37.55'
2564 - 2566	N23°01'06"W	34.61'
2566 - 2013	N61°41'54"E	24.94'
2013 - 2012	S75°44'30"E	16.58'
511 - 357	S68°44'11"E	89.20'
357 - 2586	CURVE	
2586 - 2585	N67°19'15"E	30.88'
2585 - 2582	S23°10'13"E	28.89'
2582 - 2583	S66°20'19"W	31.49'
2583 - 2586	CURVE	
357 - 2589	N21°00'36"W	80.12'
2589 - 2592	N21°00'36"W	20.00'
2592 - 2591	N69°00'02"E	23.19'
2591 - 2588	S20°59'58"E	20.00'
2588 - 2589	S69°00'02"W	23.19'

TLE COURSE TABLE		
FROM - TO	BEARING	DISTANCE
3187 - 3067	N28°10'13"W	301.77'
3067 - 2565	N66°26'13"E	21.55'
2565 - 2562	CURVE	
511 - 3093	S61°41'54"W	41.15'
3093 - 3094	N21°08'36"E	47.69'
3094 - 3231	N21°59'22"W	405.06'
3231 - 3232	S69°00'02"W	8.00'
3232 - 3233	N20°59'58"W	65.00'
3233 - 3095	N69°00'02"E	7.00'
3095 - 3096	N18°24'05"W	110.30'
357 - 2589	N21°00'36"W	80.12'
2589 - 3219	N69°00'02"E	15.19'
3219 - 3218	S13°46'35"E	89.59'
3218 - 2586	S67°19'15"W	3.88'
2586 - 357	CURVE	
357 - 2592	N21°00'36"W	100.12'
2592 - 3083	N21°00'36"W	450.00'
3083 - 3080	S26°01'18"E	60.23'
3080 - 3079	S20°59'58"E	255.00'
3079 - 3077	S36°38'30"E	25.96'
3077 - 3078	S19°57'28"E	110.02'
3078 - 2592	S69°00'02"W	10.19'

R/W STATION/OFFSET TABLE		
POINT	STATION	OFFSET
357	139+89.05	34.33'
511	140+49.87	31.18'
852	139+90.12	31.66'
2012	139+79.03	31.92'
2013	139+88.75	45.19'
2047	140+31.31	34.82'

PLE STATION/OFFSET TABLE		
POINT	STATION	OFFSET
2564	139+53.00	70.00'
2565	139+53.00	32.45'
2566	139+86.28	70.00'
2582	139+50.00	65.00'
2583	139+50.00	33.51'
2585	139+80.00	65.00'
2586	139+80.00	34.12'
2588	140+70.00	58.00'
2589	140+70.00	34.82'
2591	140+90.00	58.00'
2592	140+90.00	34.81'

TLE STATION/OFFSET TABLE		
POINT	STATION	OFFSET
3067	139+53.08	54.01'
3077	142+00.00	47.00'
3078	140+90.00	45.00'
3079	142+25.00	40.00'
3080	144+80.00	40.00'
3083	145+40.00	34.73'
3093	140+44.64	72.00'
3094	140+80.00	40.00'
3095	145+49.95	48.00'
3218	139+80.00	38.00'
3219	140+70.00	50.00'
3231	144+85.00	47.00'
3232	144+85.00	55.00'
3233	145+50.00	55.00'

REVISION DATE 7/29/19 1/23/20 NC	DATE: MAY 2017	SCALE, FEET 0 20 40	HWY: STH 47	STATE R/W PROJECT NUMBER 9650-17-20/22	PLAT SHEET 4.17	
	GRID FACTOR N/A		COUNTY: MENOMINEE	CONSTRUCTION PROJECT NUMBER 9650-17-70	PS&E SHEET 262	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\040103-27_RP.DWG PLOT DATE : 1/23/2020 2:57 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : ********** WISDOT/CADDS SHEET 75

ASSESSOR'S PLAT NO. 1 OF THE UNINCORPORATED VILLAGE OF KESHENA

TOWN 26 N R 15 E SEC 25

2" IRON PIPE FOUND
Y= 58940.833
X=290143.594

S88°57'52"E 5241.60'
N01°02'08"E 1536.57'
5081.39' 160.22'

2017

1.5" IRON PIPE
BRASS CAP FOUND
Y= 58846.098
X=295384.342

DETAIL A

T 28 N R 15 E SEC 30

2" IRON PIPE FOUND
Y= 58940.833
X=290143.594

T 28 N R 15 E SEC 25

62
UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN; BILL OF SALE TO APESANAHKWAT AND KERRY CHEVALIER (BIA TRACT NO. 440-T 164004 12)

63
LUANA DICKENSON

57
UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN; RITA KESHENA, PERMITTOR & DELORES C. WAUKECHON, PERMITTEE (BIA TRACT NO. 440-T 164006 13)

61
LAURIE A. REITER

58
SAINT MICHAEL CONGREGATION

59
UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN (BIA TRACT NO. 440-T 80022220)
LOT 2 CSM
VOL. 2 PG. 220-221

203
MENOMINEE INDIAN TRIBE OF WISCONSIN
30' UTILITY EASEMENT
VOL. 4 PG. 194 DOC. 739 PARCEL 58

TRIBAL OFFICE LOOP 50'
BLOCK 12
BLOCK 13
BLOCK 3
OUTLOT 2
HSE
GAR.
SECTION LINE
MATCHLINE STA. 150+50
MATCHLINE STA. 145+50
SEE DETAIL A
FRONTIER COMMUNICATIONS OF WISCONSIN, LLC
MITW UTILITIES
WISCONSIN POWER AND LIGHT COMPANY
TLE FOR GRADING
SLOPE INTERCEPT
NOT RECOVERED
REFERENCE LINE PROJECT T09-1(22)
STH 47
N20°59'58"W 146+00
N64°30'02"W 150+00
PC: 146+74.66 147+00
PT: 149+85.95
PI: 148+38.24
149+00
148+00
33'
30'
34'
39'

END RELOCATION ORDER
PROJECT 9650-17-22 - SEGMENT 1
STATION 148+00.00
Y = 60596.351
X = 290315.169

BEGIN RELOCATION ORDER
PROJECT 9650-17-20
STATION 147+30.00
Y = 60538.134
X = 290353.884

NW-NW SEC 25
NE-NE SEC 26

PI STA = 138+01.68
Y = 59670.443
X = 290690.943
DELTA = 15°07'28"
D = 3°16'27"
T = 232.32'
L = 461.95'
R = 1750.00'
PC STA = 135+69.36
PT STA = 140+31.31

PI STA = 148+38.24
Y = 60640.674
X = 290318.519
DELTA = 43°30'05"
D = 13°58'28"
T = 163.58'
L = 311.29'
R = 410.00'
PC STA = 146+74.66
PT STA = 149+85.95

PI STA = 164+94.61
Y = 61360.574
X = 288809.173
DELTA = 9°59'33"
D = 1°54'35"
T = 262.27'
L = 523.20'
R = 3000.00'
PC STA = 162+32.34
PT STA = 167+55.54

NOTE: EXISTING RIGHT OF WAY FOR STH 47/55 IS ESTABLISHED BY PREVIOUS PROJECT T 09-1(22), ASSESSOR'S PLAT NO. 1 OF THE UNINCORPORATED VILLAGE OF KESHENA AND CSM VOL. 2 PG. 220-221. EXISTING RIGHT OF WAY FOR TRIBAL OFFICE LOOP IS ESTABLISHED BY ASSESSOR'S PLAT NO. 1.

R/W STATION/OFFSET TABLE		
POINT	STATION	OFFSET
358	146+74.38	31.30'
359	146+74.39	34.70'
360	149+83.13	32.18'
361	149+83.43	33.82'
362	147+45.71	31.39'
364	146+87.48	31.31'
2016	146+62.88	31.30'
2017	146+78.66	47.45'
2018	147+39.01	50.00'
2019	147+74.62	31.45'
2048	149+85.95	32.19'
2049	149+85.95	33.81'

TLE STATION/OFFSET TABLE		
POINT	STATION	OFFSET
3084	147+00.00	39.00'
3086	147+80.00	54.00'
3087	148+25.00	48.00'
3088	149+25.00	45.00'
3096	146+60.19	43.00'
3097	146+65.75	71.43'
3098	147+33.61	63.62'
3100	147+85.29	37.00'
3101	149+80.00	40.00'
3234	148+55.00	40.00'
3235	148+55.00	70.00'
3236	148+96.00	70.00'
3237	148+96.00	40.00'
3238	150+15.00	55.00'

R/W COURSE TABLE		
FROM - TO	BEARING	DISTANCE
511 - 2016	N21°00'36"W	613.01'
2016 - 2017	N67°33'16"W	22.28'
2017 - 364	N41°32'54"E	18.00'
364 - 358	CURVE	
358 - 2016	S21°00'36"E	11.50'
364 - 362	N26°56'58"W	53.74'
362 - 2018	S41°32'54"W	19.56'
2018 - 2019	N02°27'31"W	37.03'
2019 - 362	CURVE	
2019 - 360	CURVE	
360 - 2048	N64°23'36"W	2.60'
2048 - 849	N64°23'36"W	501.21'
2047 - 359	N21°00'36"W	643.08'
359 - 361	CURVE	
361 - 2049	N64°23'36"W	2.72'
2049 - 2014	N64°23'36"W	414.92'

R/W CURVE DATA TABLE				
FROM - TO	RADIUS	LENGTH	CHORD	CHORD BEARING
2019 - 360	376.32'	192.35'	190.26'	N49°45'02"W
359 - 361	442.32'	334.92'	326.97'	N42°42'06"W
364 - 358	376.32'	12.12'	12.12'	S21°55'57"E
2019 - 362	376.32'	26.69'	26.68'	S33°04'33"E

TLE CURVE DATA TABLE				
FROM - TO	RADIUS	LENGTH	CHORD	CHORD BEARING
360 - 2019	376.32'	192.35'	190.26'	S49°45'02"E

TLE COURSE TABLE		
FROM - TO	BEARING	DISTANCE
3095 - 3096	N18°24'05"W	110.30'
3096 - 3097	S80°03'48"W	28.97'
3097 - 2017	N41°32'54"E	27.00'
2018 - 3098	S41°32'54"W	14.39'
3098 - 3100	N02°27'31"W	52.52'
3100 - 3234	N44°02'36"W	63.16'
3234 - 3235	S43°47'54"W	30.00'
3235 - 3236	N49°03'59"W	33.99'
3236 - 3237	N38°04'08"E	30.00'
3237 - 3101	N57°48'02"W	75.67'
3101 - 3238	N87°59'37"W	37.53'
3238 - 3239	N64°30'02"W	50.00'
3089 - 3088	S61°00'36"E	131.68'
3088 - 3087	S50°31'56"E	111.11'
3087 - 3086	S45°37'15"E	50.93'
3086 - 3084	S20°36'06"E	90.18'
3084 - 359	S13°59'43"E	28.21'

REVISION DATE 7/29/19 1/23/20 NC	DATE: MAY 2017	SCALE, FEET 0 20 40	HWY: STH 47	STATE R/W PROJECT NUMBER 9650-17-20/22
	GRID FACTOR N/A		COUNTY: MENOMINEE	CONSTRUCTION PROJECT NUMBER 9650-17-70

PLAT SHEET 4.18
PS&E SHEET 263 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\040103-27_RP.DWG PLOT DATE : 1/23/2020 2:57 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 75

TLE COURSE TABLE		
FROM - TO	BEARING	DISTANCE
3238 - 3239	N64°30'02"W	50.00'
3239 - 3240	N25°29'58"E	7.00'
3240 - 3102	N64°30'02"W	70.51'
3102 - 2594	N30°52'11"E	16.16'
2594 - 360	S64°23'36"E	150.65'
849 - 2599	S64°23'36"E	87.15'
2599 - 2596	S64°23'36"E	235.87'
2596 - 3103	S30°52'11"W	12.20'
3103 - 3241	N61°13'03"W	69.85'
3241 - 3242	S25°29'58"W	10.00'
3242 - 3243	N64°30'02"W	20.00'
3243 - 3244	N25°29'58"E	10.00'
3244 - 3073	N60°41'12"W	45.10'
3073 - 3074	N64°30'02"W	70.00'
3074 - 2598	S84°32'08"W	34.99'
2598 - 2599	N25°29'58"E	23.59'
849 - 2602	S64°23'36"E	39.15'
2602 - 3106	S25°29'58"W	10.68'
3106 - 3104	N64°30'02"W	56.22'
3104 - 849	N83°17'33"E	20.17'
2014 - 2613	N09°48'56"W	10.31'
2613 - 2612	N41°39'24"E	39.38'
2612 - 3091	S23°53'34"W	30.84'
3091 - 3089	S64°10'07"E	345.01'
3089 - 3088	S61°00'36"E	131.68'
3117 - 3113	S64°23'36"E	889.73'
3113 - 3112	S87°53'27"E	41.35'
3112 - 2081	S41°39'24"W	6.48'

EXISTING MONUMENTATION TABLE			
POINT	Y	X	TYPE
110	60930.671	289795.135	2" IRON PIPE FOUND

NOTE: EXISTING RIGHT OF WAY FOR STH 47/55 IS ESTABLISHED BY PREVIOUS PROJECT T 09-1(22), ASSESSOR'S PLAT NO. 1 OF THE UNINCORPORATED VILLAGE OF KESHENA AND CSM VOL. 2 PG. 220-221. EXISTING RIGHT OF WAY FOR CTH VV IS ESTABLISHED BY ASSESSOR'S PLAT NO. 1.

PI STA = 148+38.24
Y = 60640.674
X = 290318.519
DELTA = 43°30'05"
D = 13°58'28"
T = 163.58'
L = 311.29'
R = 410.00'
PC STA = 146+74.66
PT STA = 149+85.95

PI STA = 164+94.61
Y = 61360.574
X = 288809.173
DELTA = 9°59'33"
D = 1°54'35"
T = 262.27'
L = 523.20'
R = 3000.00'
PC STA = 162+32.34
PT STA = 167+55.54

PLE COURSE TABLE		
FROM - TO	BEARING	DISTANCE
849 - 2596	S64°23'36"E	323.02'
2596 - 2594	S64°23'36"E	30.13'
2594 - 542	S30°52'11"W	265.47'
542 - 2595	N61°11'22"W	30.02'
2595 - 2596	N30°52'11"E	263.79'
849 - 2602	S64°23'36"E	39.15'
2602 - 2599	S64°23'36"E	48.00'
2599 - 2598	S25°29'58"W	23.59'
2598 - 2601	N64°30'02"W	48.00'
2601 - 2602	N25°29'58"E	23.68'
2015 - 2611	N41°39'24"E	27.44'
2611 - 2612	S48°20'36"E	15.00'
2612 - 2613	S41°39'24"W	39.38'
2613 - 2015	N09°48'56"W	19.17'

R/W STATION/OFFSET TABLE		
POINT	STATION	OFFSET
366	154+24.86	34.64'
368	154+87.30	34.75'
849	154+87.15	31.25'
2014	154+00.86	34.59'

R/W STATION/OFFSET TABLE		
POINT	STATION	OFFSET
2015	154+17.91	58.65'
2081	154+82.88	50.00'
2082	155+18.00	34.81'

PLE STATION/OFFSET TABLE		
POINT	STATION	OFFSET
542	151+58.85	296.22'
2594	151+34.00	31.91'
2595	151+88.82	294.48'
2596	151+64.13	31.85'
2598	154+00.00	55.00'
2599	154+00.00	31.41'
2601	154+48.00	55.00'
2602	154+48.00	31.32'
2611	154+10.27	85.00'
2612	153+95.86	80.83'
2613	154+06.82	43.00'

TLE STATION/OFFSET TABLE		
POINT	STATION	OFFSET
3073	153+00.00	37.00'
3074	153+70.00	37.00'
3089	150+50.00	48.00'
3091	153+95.00	50.00'
3102	151+35.51	48.00'
3103	151+65.27	44.00'
3104	155+04.22	42.00'
3106	154+48.00	42.00'
3112	154+81.08	56.23'
3113	155+19.03	39.81'
3239	150+65.00	55.00'
3240	150+65.00	48.00'
3241	152+35.00	40.00'
3242	152+35.00	50.00'
3243	152+55.00	50.00'
3244	152+55.00	40.00'

R/W COURSE TABLE		
FROM - TO	BEARING	DISTANCE
2048 - 849	N64°23'36"W	501.21'
849 - 377	N64°23'36"W	297.16'
849 - 368	N25°22'18"E	66.00'
2049 - 2014	N64°23'36"W	414.92'
2014 - 2015	N09°48'56"W	29.48'
2014 - 366	N64°23'36"W	24.00'
2015 - 366	S41°39'24"W	25.00'
366 - 368	N64°23'36"W	62.43'
368 - 2082	N64°23'36"W	30.70'
368 - 2081	N41°39'24"E	15.88'
2081 - 2082	N87°53'27"W	38.26'
2082 - 371	N64°23'36"W	700.19'

TOWN OF MENOMINEE
ASSESSOR'S PLAT NO. 1 OF THE UNINCORPORATED VILLAGE OF KESHENA
OUTLOT 1
BLOCK 12
BLOCK 3
BLOCK 4
5
6
7
8
9
HSE
SHED
SHOP
PLE FOR DRAINAGE
NE-NE SEC 26
2" IRON PIPE FOUND Y= 58940.833 X=290143.594
2" IRON PIPE FOUND Y= 59006.131 X=284832.757
N89°17'44"W, 5311.24'
462.59'
4848.65'
N00°42'16"E 1952.29'
CREEK
COUNTY VV EAST
STH 47
MATCHLINE STA. 150+50
MATCHLINE STA. 156+00
151+00
152+00
153+00
154+00
155+00
N64°30'02"W
156
REFERENCE LINE PROJECT T09-1(22)
SLOPE INTERCEPT
33'
60'
63 LUANA DICKENSON
64 KCJ PROPERTIES, LLC
66 UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN (BIA TRACT NO. 440-T 164991 12)
59 UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN (BIA TRACT NO. 440-T 80022220) LOT 2 CSM VOL. 2 PG. 220-221 OUTLOT 2
67 MICHAEL A. SKENADORE
68 KATHLEEN FRAAZA, VENDOR; JONATHAN KOON & BILLY JO KOON, PURCHASER
69 UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN; RITA KESHENA, PERMITTOR; ARTHUR CHAPMAN & LUCILLE B. CHAPMAN, PERMITTEE (BIA TRACT NO. 440-T 164008 4)
200 FRONTIER COMMUNICATIONS OF WISCONSIN, LLC
203 MENOMINEE INDIAN TRIBE OF WISCONSIN VOL. 4 PG. 201 DOC. 743 PARCEL 64 & 66
203 MENOMINEE INDIAN TRIBE OF WISCONSIN 20' UTILITY EASEMENT VOL. 62 PG. 206 DOC. 23943 - PARCEL 67
CHARTER COMMUNICATIONS GAS STATION
PUMPS
MITW UTILITIES
WISCONSIN POWER AND LIGHT COMPANY
TLE FOR GRADING
PLE FOR DRAINAGE
FRONTIER COMMUNICATIONS OF WISCONSIN, LLC

REVISION DATE 7/29/19 1/23/20 NC	DATE: MAY 2017	SCALE, FEET 0 20 40	HWY: STH 47	STATE R/W PROJECT NUMBER 9650-17-20/22	PLAT SHEET 4.19
	GRID FACTOR N/A		COUNTY: MENOMINEE	CONSTRUCTION PROJECT NUMBER 9650-17-70	PS&E SHEET 264 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\040103-27_RP.DWG PLOT DATE : 1/23/2020 2:58 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 75

BLOCK 12 ASSESSOR'S PLAT NO. 1 OF THE UNINCORPORATED VILLAGE OF KESHENA

OUTLOT 1

66

UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN (BIA TRACT NO. 440-T 164991 12)

2" IRON PIPE FOUND
Y= 58940.833
X=290143.594

N89°17'44"W, 5311.24'

4579.11'

732.12'

2" IRON PIPE FOUND
Y= 59006.131
X=284832.757

PI STA = 148+38.24
Y = 60640.674
X = 290318.519
DELTA = 43°30'05"
D = 13°58'28"
T = 163.58'
L = 311.29'
R = 410.00'
PC STA = 146+74.66
PT STA = 149+85.95

PI STA = 164+94.61
Y = 61360.574
X = 288809.173
DELTA = 9°59'33"
D = 1°54'35"
T = 262.27'
L = 523.20'
R = 3000.00'
PC STA = 162+32.34
PT STA = 167+55.54

EXISTING MONUMENTATION TABLE			
POINT	Y	X	TYPE
111	61039.893	289560.972	1" IRON PIPE FOUND
112	61074.432	289488.862	1" IRON PIPE FOUND
113	61109.393	289415.872	1" IRON PIPE FOUND
114	61157.744	289315.045	1" IRON PIPE FOUND

R/W STATION/OFFSET TABLE		
POINT	STATION	OFFSET
377	157+84.31	30.69'

TLE STATION/OFFSET TABLE		
POINT	STATION	OFFSET
3107	157+84.91	35.69'

NOTE: EXISTING RIGHT OF WAY FOR STH 47/55 IS ESTABLISHED BY PREVIOUS PROJECT T 09-1(22) AND ASSESSOR'S PLAT NO. 1 OF THE UNINCORPORATED VILLAGE OF KESHENA. EXISTING RIGHT OF WAY FOR FAIRGROUNDS ROAD IS ESTABLISHED BY PREVIOUS PROJECT T 0-0 (2) AND ASSESSOR'S PLAT NO. 1.

TOWN OF MENOMINEE

NE-NE SEC 26

BLOCK 9

76

UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN (BIA TRACT NO. 440-T 164991 9)

R/W COURSE TABLE		
FROM - TO	BEARING	DISTANCE
849 - 377	N64°23'36"W	297.16'
377 - 370	N64°23'36"W	434.00'
2082 - 371	N64°23'36"W	700.19'

TLE COURSE TABLE		
FROM - TO	BEARING	DISTANCE
377 - 3107	S32°18'24"W	5.03'
3107 - 3108	N64°23'36"W	433.41'
3117 - 3113	S64°23'36"E	889.73'

4

BEGIN RELOCATION ORDER
PROJECT 9650-17-22
SEGMENT 2
STATION 156+50.00
Y = 60996.971
X = 289571.505

157.26'

PL

N00°42'16"E 2077.41'

FAIRGROUNDS ROAD

OUTLOT 1
VETERANS MEMORIAL PARK

STATUE

SHELTER

SIGN

STATUE

TLE FOR GRADING

377

3107

CHARTER COMMUNICATIONS

MITW UTILITIES

FRONTIER COMMUNICATIONS OF WISCONSIN, LLC

REFERENCE LINE
PROJECT T09-1(22)

MATCHLINE STA. 156+00

157+00 158+00 159+00 N64°30'02"W 160+00 161+00 162

MATCHLINE STA. 162+00

STH 47

33'

SLOPE INTERCEPT

111 112 113 114

END RELOCATION ORDER
PROJECT 9650-17-20
STATION 157+00.00
Y = 61018.496
X = 289526.375

MITW UTILITIES

FRONTIER COMMUNICATIONS OF WISCONSIN, LLC

WISCONSIN POWER AND LIGHT COMPANY

TLE FOR GRADING

201 WISCONSIN POWER AND LIGHT COMPANY

FRONTIER COMMUNICATIONS OF WISCONSIN, LLC EASEMENT
VOL. 49 PG. 495 DOC. 18634
PARCEL 78

200

8 HSE

7 HSE

6 HSE

A/C

5 HSE

UTILITY BLDG

4

3

69 UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN; RITA KESHENA, PERMITTOR; ARTHUR CHAPMAN & LUCILLE B. CHAPMAN, PERMITTEE (BIA TRACT NO. 440-T 164008 4)

71 UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN; MATT SEESTEDT, ASSIGNEE (BIA TRACT NO. 440-T 164007 4)

72 REYNOLD W. KATCHENAGO

73 SUSAN DICKENSON

BLOCK 4

NE-NE SEC 26

74 FRONTIER COMMUNICATIONS OF WISCONSIN, LLC.

77 GRACE F. WILBER

78 GRACE F. WILBER & DAVID L. CORN

ASSESSOR'S PLAT NO. 1 OF THE UNINCORPORATED VILLAGE OF KESHENA

REVISION DATE 7/29/19 1/23/20	DATE: MAY 2017	SCALE, FEET 0 20 40	HWY: STH 47	STATE R/W PROJECT NUMBER 9650-17-20/22	PLAT SHEET 4.20
	GRID FACTOR N/A		COUNTY: MENOMINEE	CONSTRUCTION PROJECT NUMBER 9650-17-70	PS&E SHEET 265 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\040103-27_RP.DWG PLOT DATE : 1/23/2020 2:58 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : ********** WISDOT/CADDS SHEET 75

R/W CURVE DATA TABLE				
FROM - TO	RADIUS	LENGTH	CHORD	CHORD BEARING
370 - 379	2831.93'	286.67'	286.55'	N67°17'36"W
370 - 2050	2831.93'	14.03'	14.03'	N64°32'07"W
2050 - 379	2831.93'	272.64'	272.54'	N67°26'07"W
371 - 2022	2897.93'	222.26'	222.21'	N66°35'26"W
371 - 2051	2897.93'	14.15'	14.15'	N64°32'00"W
2051 - 2022	2897.93'	208.11'	208.07'	N66°43'50"W
381 - 374	2939.93'	245.44'	245.37'	N72°03'06"W
2022 - 382	2897.93'	44.12'	44.12'	N69°13'26"W

TLE CURVE DATA TABLE				
FROM - TO	RADIUS	LENGTH	CHORD	CHORD BEARING
3108 - 3254	2826.93'	83.90'	83.90'	N65°14'37"W
558 - 370	2831.93'	83.90'	83.90'	S65°14'32"E
370 - 2635	2831.93'	114.67'	114.66'	N65°33'12"W
3255 - 3109	2826.93'	145.28'	145.26'	N68°11'10"W
379 - 2635	2831.93'	172.00'	171.97'	S68°27'12"E
381 - 3119	2939.93'	19.81'	19.81'	N69°51'11"W

PLE COURSE TABLE		
FROM - TO	BEARING	DISTANCE
370 - 558	CURVE	
558 - 2632	S25°35'53"W	205.93
2632 - 2633	N66°11'58"W	23.44
2633 - 2635	N23°33'28"E	205.72
2635 - 558	CURVE	

PLE STATION/OFFSET TABLE		
POINT	STATION	OFFSET
558	163+02.92	30.14'
2632	163+08.56	236.00'
2633	163+34.00	236.00'
2635	163+34.00	30.28'

R/W COURSE TABLE		
FROM - TO	BEARING	DISTANCE
377 - 370	N64°23'36"W	434.00'
370 - 379	CURVE	
370 - 2050	CURVE	
2050 - 379	CURVE	
379 - 372	N76°57'25"W	210.07'
372 - 2052	N74°26'36"W	35.02'
370 - 371	N25°36'24"E	66.00'
2082 - 371	N64°23'36"W	700.19'
371 - 2022	CURVE	
371 - 2051	CURVE	
2051 - 2022	CURVE	

R/W COURSE TABLE (CONTINUED)		
FROM - TO	BEARING	DISTANCE
2022 - 2021	N21°34'17"E	24.85'
2021 - 2023	N62°58'35"E	54.71'
2023 - 3220	N11°21'25"E	20.00'
3220 - 571	N78°38'35"W	49.36'
571 - 381	S60°55'54"W	45.84'
381 - 374	CURVE	
374 - 373	S15°33'24"W	25.00'
373 - 2053	N74°26'36"W	35.10'
2022 - 382	CURVE	
382 - 577	N20°20'24"E	11.26'
577 - 576	N60°55'54"E	61.82'
576 - 2023	S78°38'35"E	42.00'

TLE COURSE TABLE		
FROM - TO	BEARING	DISTANCE
3107 - 3108	N64°23'36"W	433.41'
3108 - 3254	CURVE	
3254 - 558	N25°35'53"E	5.00'
558 - 370	CURVE	
370 - 2635	CURVE	
2635 - 3255	S23°33'28"W	5.00'
3255 - 3109	CURVE	
3109 - 3225	S86°52'54"W	180.78'
3225 - 564	N09°52'47"E	15.39'
564 - 379	N86°52'54"E	155.00'
379 - 2635	CURVE	
2023 - 3117	S25°36'24"W	54.75'
3117 - 3113	S64°23'36"E	889.73'
381 - 3119	CURVE	
3119 - 3118	N60°55'54"E	64.30'
3118 - 3221	S78°38'35"E	54.89'
3221 - 3220	S11°21'25"W	15.00'

ASSESSOR'S PLAT NO. 1 OF THE UNINCORPORATED VILLAGE OF KESHENA

81

UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN, MERCEDES MARTIN, LESSEE (BIA TRACT NO. 440-T 164001 9)

2" IRON PIPE FOUND Y= 59006.131 X=284832.757

2" IRON PIPE FOUND Y= 58940.833 X=290143.594

N89°17'44"W, 5311.24'

1125.78'

4185.46'

IDENTICAL POINTS

T 28 N R 15 E — SEC 26 — T 28 N R 15 E

NE-NE SEC 26

NW-NE SEC 26

76

TOWN OF MENOMINEE

UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN (BIA TRACT NO. 440-T 164991 9)

N00°42'16"E 2260.16'

FRONTIER COMMUNICATIONS OF WISCONSIN, LLC

CHARTER COMMUNICATIONS

PI STA = 148+38.24
Y = 60640.674
X = 290318.519
DELTA = 43°30'05"
D = 13°58'28"
T = 163.58'
L = 311.29'
R = 410.00'
PC STA = 146+74.66
PT STA = 149+85.95

PI STA = 164+94.61
Y = 61360.574
X = 288809.173
DELTA = 9°59'33"
D = 1°54'35"
T = 262.27'
L = 523.20'
R = 3000.00'
PC STA = 162+32.34
PT STA = 167+55.54

82

AGNES W. PIERSANTE, CATHERINE WAUKECHON & JOHN WAUKECHON

GAR.

BLOCK 9

1

2

SLOPE INTERCEPT

MITW UTILITIES

PLE FOR DRAINAGE

TLE FOR GRADING

LYONS LOOP

MATCHLINE STA. 162+00

MATCHLINE STA 167+50

REFERENCE LINE PROJECT T09-1(22)

N64°30'02"W

PC: 162+32.34

PI: 164+94.61

STH 47

162+00 163+00 164+00 165+00 166+00 167+00

1/16 LINE

33'

50'

75'

WISCONSIN POWER AND LIGHT COMPANY

MITW UTILITIES

TLE FOR GRADING

FRONTIER COMMUNICATIONS OF WISCONSIN, LLC

79

UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN (BIA TRACT NO. 440-T 164001 4)

HSE

A/C

78

GRACE F. WILBER & DAVID L. CORN

BLACKSMITH ROAD

OUTLOT 1

84

UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN (BIA TRACT NO. 440-T 137)

BLOCK 4

FRONTIER COMMUNICATIONS OF WISCONSIN, LLC EASEMENT VOL. 49 PG. 495 DOC. 18634 PARCEL 78

200

NOTE: EXISTING RIGHT OF WAY FOR STH 47/55 IS ESTABLISHED BY PREVIOUS PROJECT T 09-1(22) AND ASSESSOR'S PLAT NO. 1 OF THE UNINCORPORATED VILLAGE OF KESHENA. EXISTING RIGHT OF WAY FOR LYONS LOOP AND BLACKSMITH ROAD IS ESTABLISHED BY ASSESSOR'S PLAT NO. 1.

EXISTING MONUMENTATION TABLE			
POINT	Y	X	TYPE
115	61372.419	288576.803	2" IRON PIPE FOUND

PLE CURVE DATA TABLE				
FROM - TO	RADIUS	LENGTH	CHORD	CHORD BEARING
370 - 558	2831.93'	83.90'	83.90'	N65°14'32"W
2635 - 558	2831.93'	30.77'	30.77'	S66°24'08"E

TLE STATION/OFFSET TABLE		
POINT	STATION	OFFSET
564	166+54.50	89.31'
3108	162+18.32	34.88'
3109	164+81.02	36.14'
3117	164+06.16	46.59'
3118	164+61.07	125.84'
3119	165+01.21	76.71'
3220	164+06.62	120.89'
3221	164+09.32	135.63'
3225	166+52.40	104.57'
3254	163+03.05	35.14'
3255	163+34.00	35.20'

R/W STATION/OFFSET TABLE		
POINT	STATION	OFFSET
370	162+18.31	29.88'
371	162+18.19	36.12'
372	167+19.93	50.28'
373	167+21.01	49.72'
374	167+21.27	74.72'
379	165+07.78	31.34'
381	164+81.89	76.85'
382	164+81.61	34.86'
571	164+53.37	112.01'
576	164+42.99	93.59'
577	164+81.68	46.12'
2021	164+38.00	60.00'
2022	164+38.00	35.15'
2023	164+02.99	101.25'
2050	162+32.34	29.89'
2051	162+32.34	36.11'

ASSESSOR'S PLAT NO. 1 OF THE UNINCORPORATED VILLAGE OF KESHENA

REVISION DATE 7/29/19 1/23/20 NC	DATE: MAY 2017	SCALE, FEET 0 20 40	HWY: STH 47	STATE R/W PROJECT NUMBER 9650-17-20/22	PLAT SHEET 4.21
	GRID FACTOR N/A		COUNTY: MENOMINEE	CONSTRUCTION PROJECT NUMBER 9650-17-70	PS&E SHEET 266 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\040103-27_RP.DWG PLOT DATE : 1/23/2020 2:58 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : ********** WISDOT/CADDS SHEET 75

R/W STATION/OFFSET TABLE		
POINT	STATION	OFFSET
400	171+22.17	49.86'
403	171+83.00	49.92'
2052	167+55.54	50.46'
2053	167+55.54	49.54'
2107	167+95.00	49.58'
2108	168+05.00	72.00'
2109	169+00.00	80.00'
2112	170+80.00	49.83'
2115	169+30.00	50.30'
2116	170+00.00	75.00'
2117	170+60.00	70.00'
2120	171+00.00	50.16'

TLE STATION/OFFSET TABLE		
POINT	STATION	OFFSET
3245	171+76.38	89.37'
3246	171+93.00	49.92'

R/W COURSE TABLE		
FROM - TO	BEARING	DISTANCE
372 - 2052	N74°26'36"W	35.02'
2052 - 2115	N74°26'36"W	174.46'
2115 - 2116	S86°04'25"W	74.23'
2116 - 2117	N69°43'46"W	60.21'
2117 - 2120	N48°06'25"W	44.65'
2120 - 2115	S74°26'36"E	170.00'
2120 - 2123	N74°26'36"W	435.00'
373 - 2053	N74°26'36"W	35.10'
2053 - 2107	N74°26'36"W	39.46'

R/W COURSE TABLE (CONTINUED)		
FROM - TO	BEARING	DISTANCE
2107 - 2108	N08°31'51"W	24.55'
2108 - 2109	N69°40'46"W	95.34'
2109 - 2112	N84°00'33"W	182.51'
2112 - 400	N74°26'36"W	42.17'
400 - 403	N74°26'36"W	60.83'
403 - 2085	N74°26'36"W	327.00'
2120 - 2112	N26°49'07"E	101.96'
2107 - 2112	N74°26'36"W	285.00'

TLE COURSE TABLE		
FROM - TO	BEARING	DISTANCE
2120 - 400	N03°00'36"E	102.45'
400 - 403	N74°26'36"W	60.83'
403 - 3246	N74°26'36"W	10.00'
3246 - 3245	N38°20'55"E	42.80'
3245 - 403	S25°01'24"W	40.00'

4

4

NW-NE SEC 26

N89°17'44"W, 5311.24'

1963.47'

3347.77'

N00°42'16"E 2509.67'

2" IRON PIPE FOUND
Y= 59006.131
X=284832.757

2" IRON PIPE FOUND
Y= 58940.833
X=290143.594

MENOMINEE INDIAN TRIBE OF WISCONSIN
20' UTILITY EASEMENT
VOL. 4 PG. 199 DOC. 742

LYONS LOOP

83

MENOMINEE ENTERPRISES, INC.

1

BLOCK 7

HSE

2

MENOMINEE

3

TOWN OF MENOMINEE

MITW UTILITIES

FRONTIER COMMUNICATIONS OF WISCONSIN, LLC

2052 2115 2116 2117 2120

MATCHLINE STA. 167+50

MATCHLINE STA. 173+00

168+00 169+00 170+00 N74°29'35"W 171+00 172+00 173

PT: 167+55.54

50'

SLOPE INTERCEPT

STH 47

WISCONSIN POWER AND LIGHT COMPANY

SECTION LINE

2107 2053 2108 2109 2112 400 403 3246 3245

60'

TLE FOR GRADING

MOBILE HOME

OUTLOT 2

RABBIT RIDGE ROAD

PI STA = 164+94.61
Y = 61360.574
X = 288809.173
DELTA = 9°59'33"
D = 1°54'35"
T = 262.27'
L = 523.20'
R = 3000.00'
PC STA = 162+32.34
PT STA = 167+55.54

PI STA = 182+23.69
Y = 61823.206
X = 287141.751
DELTA = 6°31'32"
D = 1°32'55"
T = 210.93'
L = 421.39'
R = 3700.00'
PC STA = 180+12.76
PT STA = 184+34.16

OUTLOT 1

84

UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN (BIA TRACT NO. 440-T 137)

86

UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN (BIA TRACT NO. 440-T 164992 6)

BLOCK 4

BLOCK 6

SW-SE SEC 23

NOT RECOVERED

ASSESSOR'S PLAT NO. 1 OF THE UNINCORPORATED VILLAGE OF KESHENA

NOTE: EXISTING RIGHT OF WAY FOR STH 47/55 IS ESTABLISHED BY PREVIOUS PROJECT T 09-1(22) AND ASSESSOR'S PLAT NO. 1 OF THE UNINCORPORATED VILLAGE OF KESHENA. EXISTING RIGHT OF WAY FOR RABBIT RIDGE ROAD IS ESTABLISHED BY ASSESSOR'S PLAT NO. 1.

REVISION DATE 7/29/19 1/23/20	DATE: MAY 2017	SCALE, FEET 0 20 40	HWY: STH 47	STATE R/W PROJECT NUMBER 9650-17-20/22	PLAT SHEET 4.22
	GRID FACTOR N/A		COUNTY: MENOMINEE	CONSTRUCTION PROJECT NUMBER 9650-17-70	PS&E SHEET 267 E

ASSESSOR'S PLAT NO. 1 OF THE UNINCORPORATED VILLAGE OF KESHENA

PI STA = 164+94.61
Y = 61360.574
X = 288809.173
DELTA = 9°59'33"
D = 1°54'35"
T = 262.27'
L = 523.20'
R = 3000.00'
PC STA = 162+32.34
PT STA = 167+55.54

PI STA = 182+23.69
Y = 61823.206
X = 287141.751
DELTA = 6°31'32"
D = 1°32'55"
T = 210.93'
L = 421.39'
R = 3700.00'
PC STA = 180+12.76
PT STA = 184+34.16

2" IRON PIPE FOUND
Y= 58940.833
X=290143.594

NW-NE SEC 23

N89°17'44"W 2383.94'

5311.24'
2927.30'

2" IRON PIPE FOUND
Y= 59006.131
X=284832.757

N00°42'16"E 2621.17'

NOT RECOVERED

COMPUTED LOCATION
Y= 61621.876
X=284884.769

NE-NW SEC 23

87

BLOCK 7

ESTATE OF ALFRED P. LYONS, JOSEPH J. LYONS, VIRGINIA M. SMIGELSKI, HARLEY A. LYONS, JEAN M. HESSE, MYRTLE A. KREIER & WILFRED E. LYONS

LYONS LOOP

SAN

W

PL

SECTION LINE

1/4 LINE

3

4

HSE

5

TOWN OF MENOMINEE

FRONTIER COMMUNICATIONS OF WISCONSIN, LLC

2620 2621 2124 2125 2123 2128

PLE FOR DRAINAGE

SLOPE INTERCEPT

50'

100'

MATCHLINE STA. 173+00

MATCHLINE STA. 179+00

173+00 174+00 STH 47 175+00 N74°29'35"W 176+00 177+00 178+00 179

T OH

GAR.

HSE

2085 404 407 2090

WISCONSIN POWER AND LIGHT COMPANY

FRONTIER COMMUNICATIONS OF WISCONSIN, LLC

SLOPE INTERCEPT

2086 2089

405 406

3222

TLE FOR GRADING

20

ASSESSOR'S PLAT NO. 1 OF THE UNINCORPORATED VILLAGE OF KESHENA

86

UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN (BIA TRACT NO. 440-T 164992 6)

BLOCK 6

OUTLOT 2

SW-SE SEC 23

NOT RECOVERED

SE-SW SEC 23

NOTE: EXISTING RIGHT OF WAY FOR STH 47/55 IS ESTABLISHED BY PREVIOUS PROJECT T 09-1(22) AND ASSESSOR'S PLAT NO. 1 OF THE UNINCORPORATED VILLAGE OF KESHENA.

R/W COURSE TABLE		
FROM - TO	BEARING	DISTANCE
2120 - 2123	N74°26'36"W	435.00'
2123 - 2124	S78°36'13"W	33.64'
2124 - 2125	N74°29'35"W	20.00'
2125 - 2128	N57°28'11"W	52.29'
2128 - 385	N74°26'36"W	334.23'
403 - 2085	N74°26'36"W	327.00'
2085 - 2086	N40°53'25"W	61.07'
2086 - 405	N15°33'24"E	16.24'
405 - 406	N74°26'36"W	149.97'
406 - 2089	S15°33'24"W	12.37'
2089 - 2090	S85°41'28"W	110.72'
2090 - 2054	N74°26'36"W	197.76'
2123 - 2085	N29°32'46"E	103.06'
2085 - 404	N74°26'36"W	50.90'
404 - 2086	N15°33'24"E	33.76'
2089 - 407	S15°33'24"W	37.63'
407 - 2090	N74°26'36"W	104.13'
2128 - 2123	S74°26'36"E	100.00'

PLE COURSE TABLE		
FROM - TO	BEARING	DISTANCE
2124 - 2620	S15°30'25"W	10.00'
2620 - 2621	N74°29'35"W	20.00'
2621 - 2125	N15°30'25"E	10.00'
2125 - 2124	S74°29'35"E	20.00'

TLE COURSE TABLE		
FROM - TO	BEARING	DISTANCE
406 - 3222	S82°44'48"E	101.88'
3222 - 405	S57°46'54"E	51.31'

R/W STATION/OFFSET TABLE		
POINT	STATION	OFFSET
404	175+60.90	50.24'
405	175+60.85	100.24'
406	177+10.82	100.37'
407	177+10.87	50.37'
2085	175+10.00	50.20'
2086	175+60.87	84.00'
2089	177+10.83	88.00'
2090	178+15.00	50.46'
2123	175+35.00	49.78'
2124	175+65.00	65.00'
2125	175+85.00	65.00'
2128	176+35.00	49.69'

TLE STATION/OFFSET TABLE		
POINT	STATION	OFFSET
3222	176+25.00	110.00'

PLE STATION/OFFSET TABLE		
POINT	STATION	OFFSET
2620	175+65.00	75.00'
2621	175+85.00	75.00'

REVISION DATE 7/29/19
1/23/20 NC

DATE: MAY 2017

GRID FACTOR N/A

SCALE, FEET 0 20 40

HWY: STH 47

COUNTY: MENOMINEE

STATE R/W PROJECT NUMBER 9650-17-20/22

CONSTRUCTION PROJECT NUMBER 9650-17-70

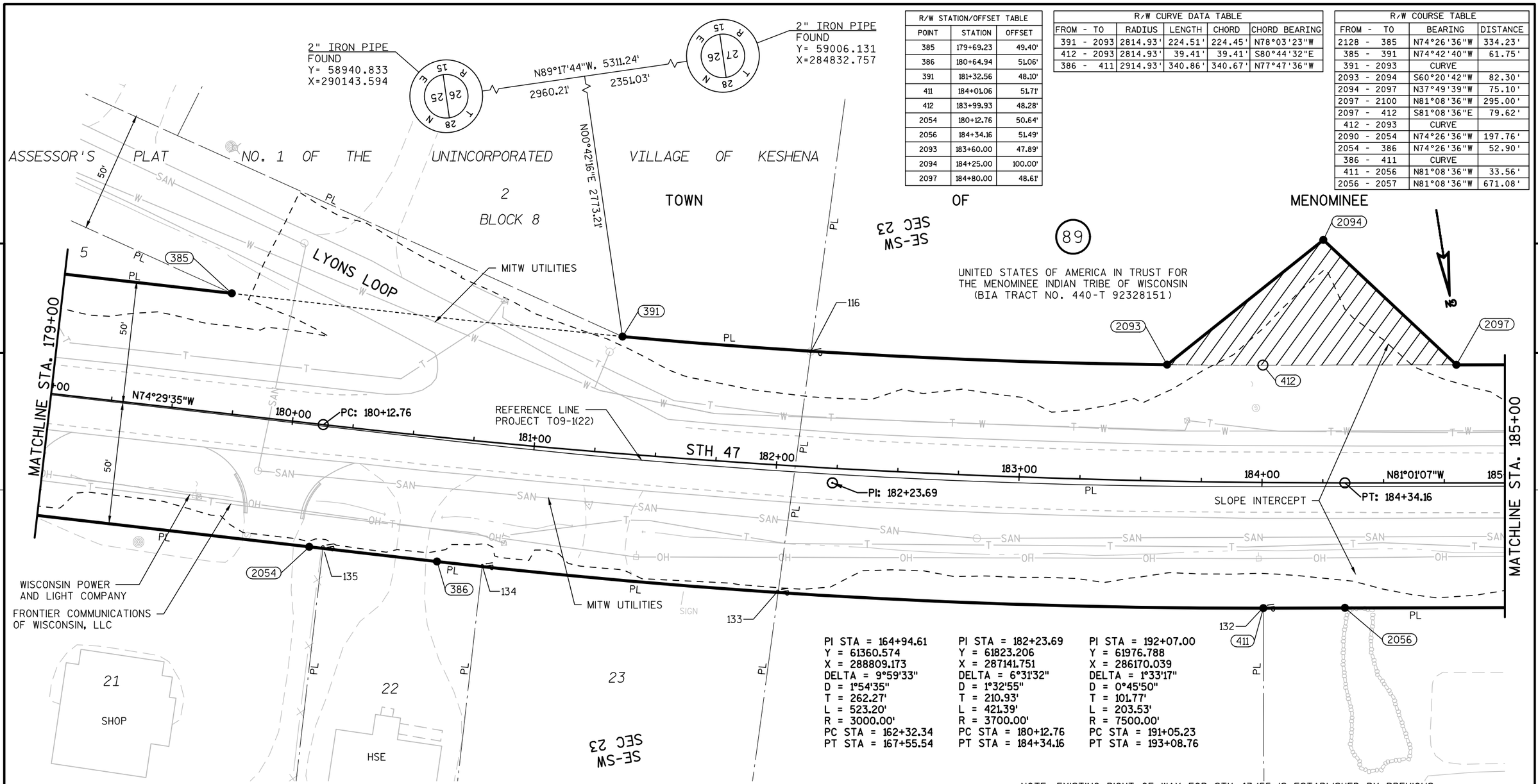
PLAT SHEET 4.23

PS&E SHEET 268

E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\040103-27_RP.DWG PLOT DATE : 1/23/2020 2:59 PM PLOT BY : DOLAN, ISAAC PLOT NAME :

WISDOT/CADDS SHEET 75



R/W STATION/OFFSET TABLE		
POINT	STATION	OFFSET
385	179+69.23	49.40'
386	180+64.94	51.06'
391	181+32.56	48.10'
411	184+01.06	51.71'
412	183+99.93	48.28'
2054	180+12.76	50.64'
2056	184+34.16	51.49'
2093	183+60.00	47.89'
2094	184+25.00	100.00'
2097	184+80.00	48.61'

R/W CURVE DATA TABLE				
FROM - TO	RADIUS	LENGTH	CHORD	CHORD BEARING
391 - 2093	2814.93'	224.51'	224.45'	N78°03'23"W
412 - 2093	2814.93'	39.41'	39.41'	S80°44'32"E
386 - 411	2914.93'	340.86'	340.67'	N77°47'36"W

R/W COURSE TABLE		
FROM - TO	BEARING	DISTANCE
2128 - 385	N74°26'36"W	334.23'
385 - 391	N74°42'40"W	61.75'
391 - 2093	CURVE	
2093 - 2094	S60°20'42"W	82.30'
2094 - 2097	N37°49'39"W	75.10'
2097 - 2100	N81°08'36"W	295.00'
2097 - 412	S81°08'36"E	79.62'
412 - 2093	CURVE	
2090 - 2054	N74°26'36"W	197.76'
2054 - 386	N74°26'36"W	52.90'
386 - 411	CURVE	
411 - 2056	N81°08'36"W	33.56'
2056 - 2057	N81°08'36"W	671.08'

PI STA = 164+94.61
Y = 61360.574
X = 288809.173
DELTA = 9°59'33"
D = 1°54'35"
T = 262.27'
L = 523.20'
R = 3000.00'
PC STA = 162+32.34
PT STA = 167+55.54

PI STA = 182+23.69
Y = 61823.206
X = 287141.751
DELTA = 6°31'32"
D = 1°32'55"
T = 210.93'
L = 421.39'
R = 3700.00'
PC STA = 180+12.76
PT STA = 184+34.16

PI STA = 192+07.00
Y = 61976.788
X = 286170.039
DELTA = 1°33'17"
D = 0°45'50"
T = 101.77'
L = 203.53'
R = 7500.00'
PC STA = 191+05.23
PT STA = 193+08.76

NOTE: EXISTING RIGHT OF WAY FOR STH 47/55 IS ESTABLISHED BY PREVIOUS PROJECT T 09-1(22), ASSESSOR'S PLAT NO. 1 OF THE UNINCORPORATED VILLAGE OF KESHENA AND CSM VOL. 2 PG. 10-11. EXISTING RIGHT OF WAY FOR LYONS LOOP IS ESTABLISHED BY ASSESSOR'S PLAT NO. 1.

EXISTING MONUMENTATION TABLE			
POINT	Y	X	TYPE
116	61768.420	287142.130	2" IRON PIPE FOUND
132	61901.443	286974.462	1" IRON PIPE FOUND
133	61863.763	287170.979	2" IRON PIPE FOUND
134	61834.365	287289.442	1" IRON PIPE FOUND
135	61816.509	287352.980	1" IRON PIPE FOUND

LOT 2 CSM
VOL. 2 PG. 10-11

REVISION DATE 7/29/19 1/23/20 NC	DATE: MAY 2017	SCALE, FEET 0 20 40	HWY: STH 47	STATE R/W PROJECT NUMBER 9650-17-20/22	PLAT SHEET 4.24
	GRID FACTOR N/A		COUNTY: MENOMINEE	CONSTRUCTION PROJECT NUMBER 9650-17-70	PS&E SHEET 269 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\040103-27_RP.DWG PLOT DATE : 1/23/2020 2:59 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 75

R/W STATION/OFFSET TABLE		
POINT	STATION	OFFSET
2100	187+75.00	49.25'
2101	188+60.00	82.00'
2102	189+50.00	49.64'
2624	189+75.00	60.00'
2625	189+75.00	50.31'
2626	190+75.00	60.00'
2627	190+75.00	50.09'

2" IRON PIPE
FOUND
Y= 58940.833
X=290143.594

N89°17'44"W, 5311.24'
3590.17'
1721.07'

2" IRON PIPE
FOUND
Y= 59006.131
X=284832.757

SEC 23
T 28 N R 15 E
SE-SW

PI STA = 182+23.69
Y = 61823.206
X = 287141.751
DELTA = 6°31'32"
D = 1°32'55"
T = 210.93'
L = 421.39'
R = 3700.00'
PC STA = 180+12.76
PT STA = 184+34.16

PI STA = 192+07.00
Y = 61976.788
X = 286170.039
DELTA = 1°33'17"
D = 0°45'50"
T = 101.77'
L = 203.53'
R = 7500.00'
PC STA = 191+05.23
PT STA = 193+08.76

N00°42'16"E 2875.94'

TOWN OF MENOMINEE

91
WILLIAM A. MARTIN
LOT 2 CSM 326
VOL. 2 PG. 326

HSE

89
UNITED STATES OF AMERICA IN TRUST FOR
THE MENOMINEE INDIAN TRIBE OF WISCONSIN
(BIA TRACT NO. 440-T 92328151)

FRONTIER COMMUNICATIONS
OF WISCONSIN, LLC

2101
130
2100
2102
PL
FUTURE R/W
PER CSM
10'

MATCHLINE STA. 185+00
MATCHLINE STA. 191+00
186+00
187+00
188+00
189+00 N81°01'07"W
190+00
50'

REFERENCE LINE
PROJECT T09-1(22)

STH 47

SLOPE INTERCEPT

MITW UTILITIES

FRONTIER COMMUNICATIONS
OF WISCONSIN, LLC

DECORATIVE STEEL
ARROWS

WISCONSIN POWER
AND LIGHT COMPANY

LOT 2 CSM
VOL. 2 PG. 10-11

2624
2625
2626
2627
PLE FOR
DRAINAGE

93
UNITED STATES OF AMERICA IN TRUST FOR
THE MENOMINEE INDIAN TRIBE OF WISCONSIN
(BIA TRACT NO. 440-T 92328151)

R/W COURSE TABLE		
FROM - TO	BEARING	DISTANCE
2097 - 2100	N81°08'36"W	295.00'
2100 - 2101	S77°54'44"W	91.09'
2101 - 2102	N61°14'22"W	95.64'
2102 - 2100	S81°08'36"E	175.00'
2102 - 2058	N81°08'36"W	155.24'
2056 - 2057	N81°08'36"W	671.08'

PLE COURSE TABLE		
FROM - TO	BEARING	DISTANCE
2102 - 2624	N05°03'44"W	103.03'
2624 - 2627	N81°08'36"W	100.00'
2627 - 2626	N08°58'53"E	9.91'
2626 - 2625	S81°01'07"E	100.00'
2625 - 2624	S08°58'53"W	9.69'

EXISTING MONUMENTATION TABLE			
POINT	Y	X	TYPE
130	61864.402	286499.733	1" IRON PIPE FOUND

NOTE: EXISTING RIGHT OF WAY FOR STH 47/55 IS ESTABLISHED BY PREVIOUS PROJECT T 09-1(22), ASSESSOR'S PLAT NO. 1 OF THE UNINCORPORATED VILLAGE OF KESHENA, CSM VOL. 2 PG. 10-11 AND CSM 326 VOL. 2 PG. 326. EXISTING RIGHT OF WAY FOR LYONS LOOP IS ESTABLISHED BY ASSESSOR'S PLAT NO. 1.

REVISION DATE 7/29/19
1/23/20 NC

DATE: MAY 2017
GRID FACTOR N/A

SCALE, FEET
0 20 40

HWY: STH 47
COUNTY: MENOMINEE

STATE R/W PROJECT NUMBER 9650-17-20/22
CONSTRUCTION PROJECT NUMBER 9650-17-70

PLAT SHEET 4.25
PS&E SHEET 270

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\040103-27_RP.DWG
PLOT DATE : 1/23/2020 2:59 PM
PLOT BY : DOLAN, ISAAC
PLOT NAME :
PLOT SCALE : **********

R/W STATION/OFFSET TABLE		
POINT	STATION	OFFSET
417	191+60.33	50.11'
418	191+60.27	60.11'
419	194+09.02	64.87'
420	194+09.27	54.87'
421	195+09.24	57.37'
840	196+53.34	39.07'
2057	191+05.23	50.03'
2058	191+05.23	49.97'
2059	193+08.76	47.67'
2060	193+08.76	62.36'

TLE STATION/OFFSET TABLE		
POINT	STATION	OFFSET
3249	196+30.00	39.65'
3250	196+45.82	74.09'

SEC 23 SE-SW

SEC 23 SW-SW

SHED

91

WILLIAM A. MARTIN

LOT 2 CSM 326
VOL. 2 PG. 326

GAR.

PL

FLAG

FILLER CAPS

GAS STATION

89

UNITED STATES OF AMERICA IN TRUST FOR
THE MENOMINEE INDIAN TRIBE OF WISCONSIN
(BIA TRACT NO. 440-T 92328151)

OUTLOT 1 CSM 191
VOL. 3 PG. 318-322
(ROAD)

LOT 1 CSM
VOL. 1 PG. 68

TLE FOR
GRADING

3250

3249

840

SEE DETAIL A

FUTURE R/W
PER CSM

LOT 1 CSM 326
VOL. 2 PG. 326

PUMPS

2059

2058

FRONTIER COMMUNICATIONS
OF WISCONSIN, LLC

10'

MATCHLINE STA. 191+00

MATCHLINE STA. 197+00

STH 47

N82°34'24"W

191+00

192+00

193+00

194+00

195+00

196+00

197+00

PC: 191+05.23

PI: 192+07.00

PT: 193+08.76

50'

60'

SLOPE INTERCEPT

REFERENCE LINE
PROJECT T09-1(22)

2057

417

418

2060

420

421

419

WISCONSIN POWER
AND LIGHT COMPANY

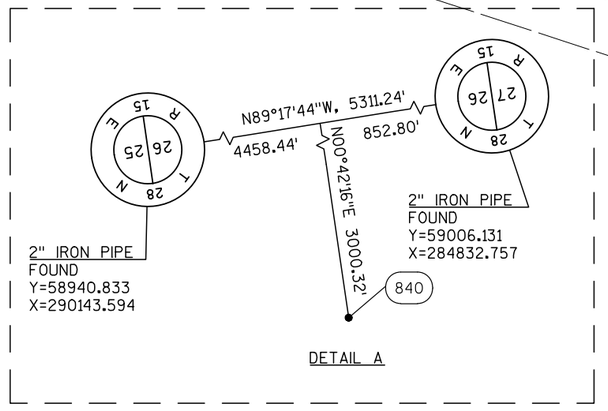
OLD STH 55 / ASKENETTE CORNERS

1/16 LINE

SEC 23 SW-SW

93

UNITED STATES OF AMERICA IN TRUST FOR
THE MENOMINEE INDIAN TRIBE OF WISCONSIN
(BIA TRACT NO. 440-T 92328151)



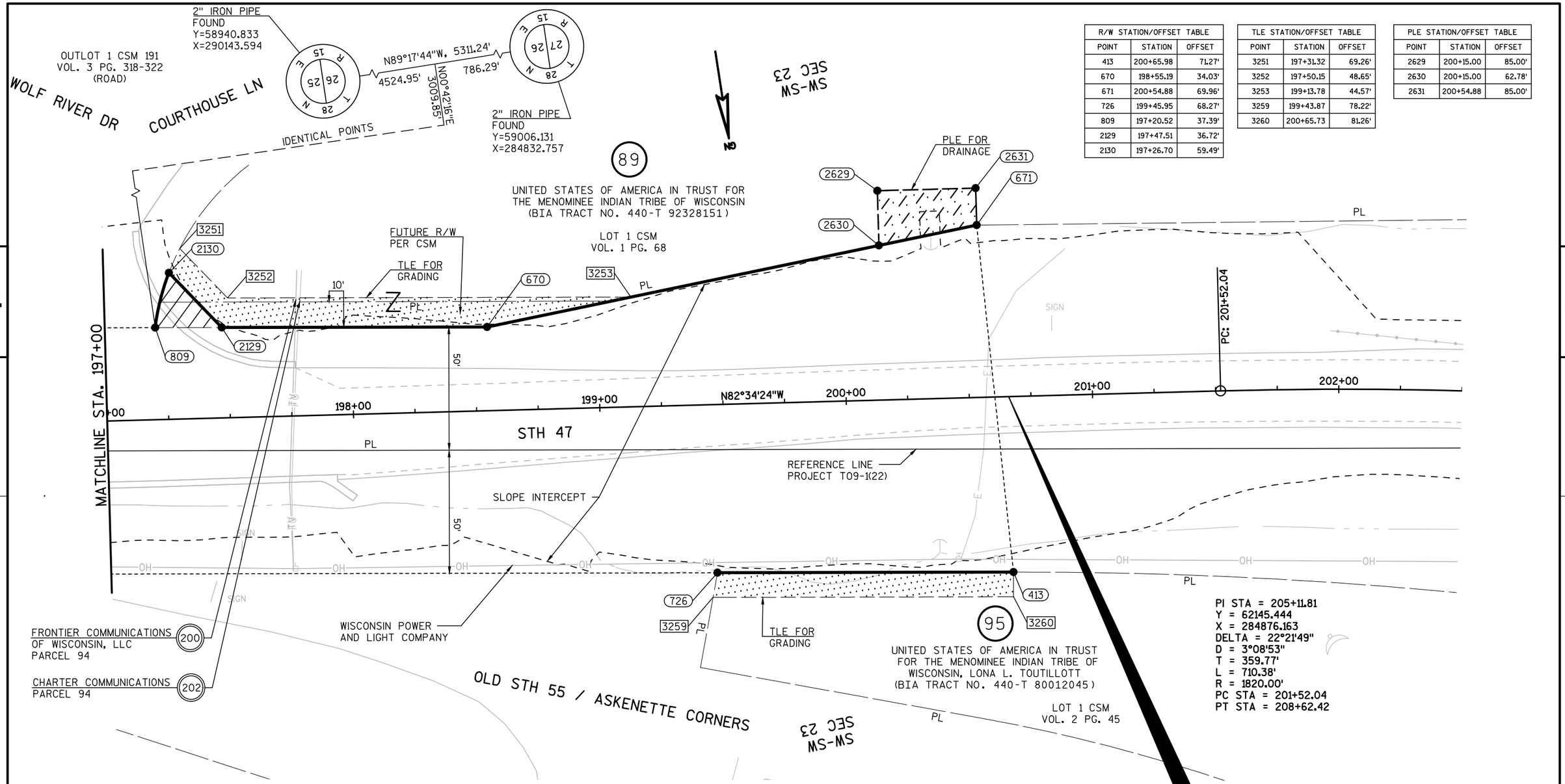
R/W COURSE TABLE		
FROM - TO	BEARING	DISTANCE
2102 - 2058	N81°08'36"W	155.24'
2058 - 2059	N81°08'36"W	202.21'
2059 - 840	N81°08'36"W	344.69'
840 - 809	N81°08'36"W	67.20'
2056 - 2057	N81°08'36"W	671.08'
2057 - 417	N81°08'36"W	55.46'
417 - 418	N08°51'24"E	10.00'
418 - 2060	N81°08'36"W	149.71'
2060 - 419	N81°08'36"W	100.29'
419 - 420	S08°51'24"W	10.00'
420 - 413	N81°08'36"W	656.92'
420 - 421	N81°08'36"W	100.00'
421 - 726	N81°08'36"W	436.85'

TLE COURSE TABLE		
FROM - TO	BEARING	DISTANCE
840 - 3249	S81°08'36"E	23.35'
3249 - 3250	S32°05'46"W	37.90'
3250 - 840	CURVE	

TLE CURVE DATA TABLE				
FROM - TO	RADIUS	LENGTH	CHORD	CHORD BEARING
3250 - 840	105.00'	36.00'	35.82'	N04°41'43"W

REVISION DATE 7/29/19 1/23/20	DATE: MAY 2017	SCALE, FEET 0 20 40	HWY: STH 47	STATE R/W PROJECT NUMBER 9650-17-20/22	PLAT SHEET 4.26
	GRID FACTOR N/A		COUNTY: MENOMINEE	CONSTRUCTION PROJECT NUMBER 9650-17-70	PS&E SHEET 271 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\040103-27_RP.DWG PLOT DATE : 1/23/2020 3:00 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : ********** WISDOT/CADDS SHEET 75



R/W STATION/OFFSET TABLE		
POINT	STATION	OFFSET
413	200+65.98	71.27'
670	198+55.19	34.03'
671	200+54.88	69.96'
726	199+45.95	68.27'
809	197+20.52	37.39'
2129	197+47.51	36.72'
2130	197+26.70	59.49'

TLE STATION/OFFSET TABLE		
POINT	STATION	OFFSET
3251	197+31.32	69.26'
3252	197+50.15	48.65'
3253	199+13.78	44.57'
3259	199+43.87	78.22'
3260	200+65.73	81.26'

PLE STATION/OFFSET TABLE		
POINT	STATION	OFFSET
2629	200+15.00	85.00'
2630	200+15.00	62.78'
2631	200+54.88	85.00'

R/W COURSE TABLE		
FROM - TO	BEARING	DISTANCE
840 - 809	N81°08'36"W	67.20'
809 - 2130	CURVE	
2130 - 2129	N34°59'17"W	30.85'
2129 - 670	N81°08'36"W	107.71'
670 - 671	S87°13'39"W	202.90'
671 - 413	N02°55'47"E	141.66'
420 - 413	N81°08'36"W	656.92'
421 - 726	N81°08'36"W	436.85'
726 - 413	N81°08'36"W	120.07'
2129 - 809	S81°08'36"E	27.00'

PLE COURSE TABLE		
FROM - TO	BEARING	DISTANCE
671 - 2630	N87°13'39"E	40.52'
2630 - 2629	S07°25'36"W	22.22'
2629 - 2631	N82°34'24"W	39.88'
2631 - 671	N07°25'36"E	15.04'

TLE COURSE TABLE		
FROM - TO	BEARING	DISTANCE
2130 - 3251	CURVE	
3251 - 3252	N34°59'17"W	27.91'
3252 - 3253	N81°08'36"W	163.68'
3253 - 670	N87°13'39"E	59.53'
413 - 3260	N08°51'24"E	10.00'
3260 - 3259	S81°08'36"E	121.91'
3259 - 726	S19°13'54"W	10.17'
726 - 413	N81°08'36"W	120.07'

TLE CURVE DATA TABLE				
FROM - TO	RADIUS	LENGTH	CHORD	CHORD BEARING
2130 - 3251	100.00'	10.81'	10.81'	S32°44'56"W

R/W CURVE DATA TABLE				
FROM - TO	RADIUS	LENGTH	CHORD	CHORD BEARING
809 - 2130	100.00'	23.00'	22.95'	S23°03'46"W

REVISION DATE 7/29/19 1/23/20	DATE: MAY 2017	SCALE, FEET 0 20 40	HWY: STH 47	STATE R/W PROJECT NUMBER 9650-17-20/22	PLAT SHEET 4.27
	GRID FACTOR N/A		COUNTY: MENOMINEE	CONSTRUCTION PROJECT NUMBER 9650-17-70	PS&E SHEET 272 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\040103-27_RP.DWG PLOT DATE : 1/23/2020 3:00 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 75

4

R/W COORDINATE TABLE		
POINT	Y	X
107	57820.105	291082.213
300	54357.302	290933.998
302	54307.274	290934.654
305	54287.846	291008.515
306	54315.448	291005.307
310	54456.461	290922.473
311	54464.081	290988.032
312	54722.913	290888.324
313	54732.072	290953.686
314	55197.887	290821.768
315	55207.046	290887.130
316	55630.611	290809.824
317	55625.072	290875.591
318	56818.276	290909.857
319	56812.737	290975.624
320	57102.868	290937.396
321	57095.694	291003.005
322	56318.835	290934.024
325	56252.940	290928.474
326	57185.745	291012.851
328	57245.755	291019.413
331	57827.279	291016.604
332	58025.702	291036.549
333	58019.675	291102.273
334	58599.047	291089.131
337	58077.440	291041.294
345	58698.905	291093.782
346	58698.933	291076.782
347	59389.324	290937.857
348	59350.786	290884.277
349	59340.859	290870.477
350	59190.901	290961.092
352	59131.714	290988.508
354	59507.132	290771.820
355	59545.671	290825.400
357	59861.145	290655.049
358	60476.484	290348.019
359	60500.147	290409.631
360	60680.920	290159.360
361	60740.438	290187.884

R/W COORDINATE TABLE		
POINT	Y	X
362	60535.629	290319.138
364	60487.724	290343.493
366	60931.310	289789.621
368	60958.294	289733.319
370	61214.660	289045.691
371	61274.177	289074.216
372	61372.682	288576.697
373	61469.019	288603.516
374	61493.103	288610.221
377	61027.089	289437.066
379	61325.272	288781.351
381	61417.490	288843.650
382	61378.109	288829.051
385	61707.575	287373.733
386	61829.795	287307.577
391	61750.227	287217.704
400	61576.759	288216.503
403	61593.073	288157.903
405	61742.591	287807.257
406	61782.811	287662.781
411	61901.826	286974.610
412	61803.018	286959.214
413	62158.485	285327.464
417	62018.853	286223.573
418	62028.734	286225.113
419	62067.224	285978.094
420	62057.344	285976.554
421	62072.740	285877.746
450	57754.721	291075.064
451	57779.573	291077.781
480	59227.061	291035.808
485	59172.217	291061.425
499	59034.813	291111.469
500	58973.684	291127.758
511	59893.493	290571.925
571	61439.762	288883.716
576	61418.703	288886.997
577	61388.669	288832.966
670	62026.828	285522.884
671	62017.013	285320.223

R/W COORDINATE TABLE		
POINT	Y	X
726	62139.998	285446.108
779	57295.368	290958.444
795	58557.194	291151.570
796	58574.474	291168.737
797	58634.060	291175.997
798	58656.884	291158.969
809	62006.088	285655.989
840	61995.742	285722.383
849	60898.659	289705.039
852	59837.025	290593.612
2000	56318.225	290962.017
2001	56336.853	290952.453
2002	58082.459	291028.225
2003	58087.398	291042.207
2004	58958.094	291131.356
2005	58972.690	291143.727
2006	59034.379	291118.446
2008	59045.185	291115.393
2009	59043.319	291108.922
2010	59153.728	291069.303
2011	59176.861	291076.213
2012	59826.493	290597.708
2013	59830.577	290581.638
2014	60920.938	289811.264
2015	60949.989	289806.238
2016	60465.748	290352.142
2017	60474.253	290331.554
2018	60520.989	290306.163
2019	60557.989	290304.575
2021	61385.573	288879.435
2022	61362.461	288870.298
2023	61410.432	288928.175
2024	57167.852	291010.895
2025	57181.832	291030.421
2028	56246.256	290861.677
2029	56255.343	290812.211
2030	56300.766	290808.925
2033	56336.102	290869.245
2034	54357.694	291000.397
2035	54586.889	290906.553

R/W COORDINATE TABLE		
POINT	Y	X
2036	54595.815	290971.949
2037	55609.244	290874.325
2038	55614.174	290808.509
2039	58548.297	291084.477
2040	58542.455	291150.218
2041	58971.797	291042.740
2042	59003.013	291034.282
2043	59317.974	290886.499
2044	59366.929	290953.574
2045	59464.324	290802.612
2046	59503.234	290855.924
2047	59899.816	290640.197
2048	60682.043	290157.017
2049	60741.614	290185.430
2050	61220.691	289033.025
2051	61280.263	289061.439
2052	61382.074	288542.963
2053	61478.433	288569.699
2054	61815.609	287358.537
2056	61906.993	286941.450
2058	61911.540	286262.759
2059	61942.673	286062.961
2065	56291.539	290809.592
2066	56288.882	290931.501
2070	58924.381	291053.726
2071	58922.845	291138.675
2078	56341.311	290935.917
2081	60970.155	289743.871
2082	60971.563	289705.632
2085	61680.773	287842.879
2086	61726.941	287802.900
2089	61770.890	287659.462
2090	61762.571	287549.053
2093	61796.677	286998.114
2094	61755.960	286926.598
2097	61815.277	286880.541
2100	61860.696	286589.057
2101	61841.621	286499.987
2102	61887.640	286416.144
2107	61489.016	288531.686

R/W COORDINATE TABLE		
POINT	Y	X
2108	61513.294	288528.044
2109	61546.401	288438.641
2112	61565.450	288257.127
2115	61428.862	288374.896
2116	61423.779	288300.842
2117	61444.638	288244.362
2120	61474.454	288211.124
2123	61591.117	287792.060
2124	61584.470	287759.082
2125	61589.817	287739.810
2128	61617.937	287695.723
2129	62010.245	285629.311
2130	61984.972	285646.999
2131	56306.771	290833.500
3220	61430.041	288932.113

PLE COORDINATE TABLE		
POINT	Y	X
481	59246.191	291096.724
486	59185.867	291104.891
542	60518.167	289887.294
558	61249.796	288969.503
779	57295.368	290958.444
2507	55295.733	290782.904
2508	55298.065	290810.372
2510	55398.721	290776.815
2515	55553.537	290775.599
2518	55745.139	290787.961
2521	55742.794	290819.272
2522	59258.326	291048.859
2523	59340.940	290992.200
2524	59403.733	290947.501
2525	59509.313	290864.253
2526	59522.382	290864.657
2527	59538.182	290853.410
2528	59527.616	290838.387
2534	57322.541	290709.926
2535	57352.364	290713.186
2536	57325.190	290961.705
2538	57288.408	291043.109
2539	57290.143	291027.284
2541	57303.319	291044.744
2542	57305.381	291025.933
2544	58533.802	291046.933
2545	58530.610	291082.855
2547	58553.611	291048.691
2548	58550.470	291084.676
2550	58785.597	291170.700
2551	58784.553	291156.800
2553	58795.896	291169.890
2554	58794.759	291156.028
2556	59166.786	291110.884
2558	59496.153	290720.952
2559	59522.784	290760.717
2561	59513.596	290709.414
2562	59539.558	290749.155
2564	59786.901	290573.212
2565	59801.913	290607.634

PLE COORDINATE TABLE		
POINT	Y	X
2566	59818.753	290559.679
2576	59795.790	290709.673
2577	59785.088	290686.861
2579	59813.343	290701.559
2580	59803.019	290678.884
2582	59838.222	290698.112
2583	59825.583	290669.268
2585	59864.777	290686.747
2586	59852.871	290658.257
2588	59944.246	290647.969
2589	59935.937	290626.324
2591	59962.918	290640.802
2592	59954.608	290619.153
2594	60746.031	290023.504
2595	60532.634	289860.991
2596	60759.051	289996.336
2598	60839.703	289773.475
2599	60860.993	289783.630
2601	60860.367	289730.151
2602	60881.739	289740.344
2604	55706.633	290900.399
2605	55707.968	290882.573
2606	55726.577	290901.893
2607	55727.898	290884.251
2608	57172.701	291071.416
2609	57166.845	291070.112
2610	57177.144	291023.873
2611	60970.488	289824.474
2612	60960.518	289835.681
2613	60931.096	289809.506
2616	57243.289	291030.484
2617	57271.086	291025.201
2620	61574.834	287756.409
2621	61580.181	287737.137
2624	61990.263	286407.053
2625	61999.833	286408.566
2626	62015.445	286309.792
2627	62005.659	286308.245
2629	61996.941	285357.822
2630	62018.973	285360.694

PLE COORDINATE TABLE		
POINT	Y	X
2631	62002.096	285318.279
2632	61064.081	288880.530
2633	61073.539	288859.086
2635	61262.113	288941.307

4

4

REVISION DATE 7/29/19 NC
1/23/20

DATE: MAY 2017

GRID FACTOR N/A

SCALE, FEET
0 20 40

HWY: STH 47

COUNTY: MENOMINEE

STATE R/W PROJECT NUMBER 9650-17-20/22

CONSTRUCTION PROJECT NUMBER 9650-17-70

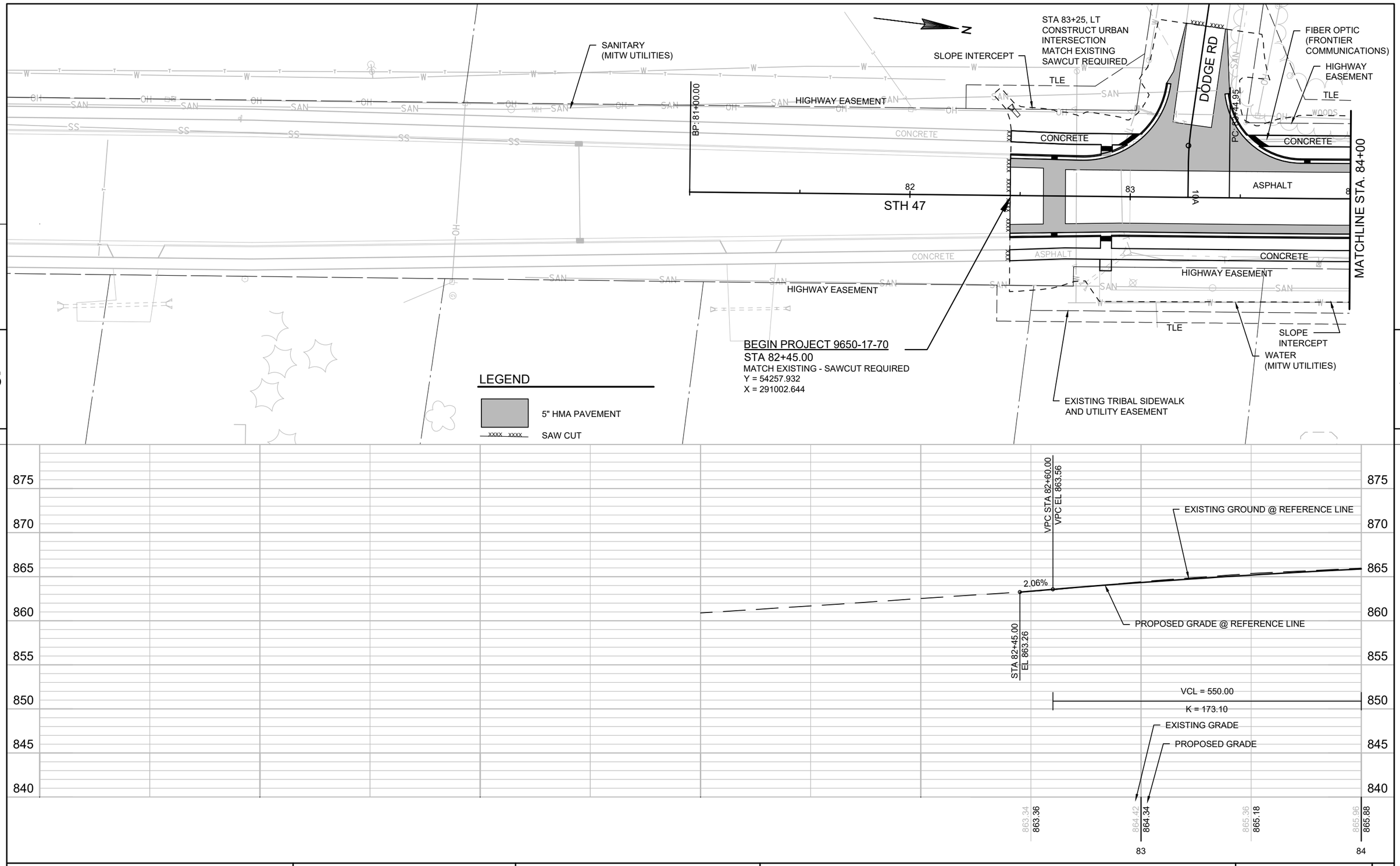
PLAT SHEET 4.28

PS&E SHEET 273

E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\040103-27_RP.DWG PLOT DATE : 1/23/2020 3:00 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 75



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE	SHEET 274 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0501_PP.DWG PLOT DATE : 1/9/2019 11:51 AM PLOT BY : DOLAN, ISAAC PLOT NAME : 050101_PP

WISDOT/CADDS SHEET 40

FIBER OPTIC
(FRONTIER COMMUNICATIONS)

OVERHEAD ELECTRIC
(WISCONSIN POWER AND
LIGHT COMPANY)

STA 86+61, LT
CONSTRUCT GRAVEL PE

TELEPHONE
(FRONTIER
COMMUNICATIONS)

SLOPE INTERCEPT

N

MATCHLINE STA. 84+00

MATCHLINE STA. 90+00

PI STA 85+84.06

TLE

HIGHWAY EASEMENT

CONCRETE

ASPHALT

STH 47

HIGHWAY EASEMENT

CONCRETE

EXISTING TRIBAL SIDEWALK AND UTILITY EASEMENT

TLE

SANITARY
(MITW UTILITIES)

WATER
(MITW UTILITIES)

STA 84+74, RT
CONSTRUCT GRAVEL PE

STA 87+76, RT
CONSTRUCT GRAVEL PE

VPI STA 85+35.00
VPI EL 869.22

PROPOSED GRADE @ REFERENCE LINE

EXISTING GROUND @ REFERENCE LINE

VPT STA 88+10.00
VPT EL 866.14

-1.12%

VCL = 550.00

K = 173.10

EXISTING GRADE

PROPOSED GRADE

865.96	866.44	866.83	866.92	867.07
865.88	866.43	866.84	867.10	867.22
84		85		86

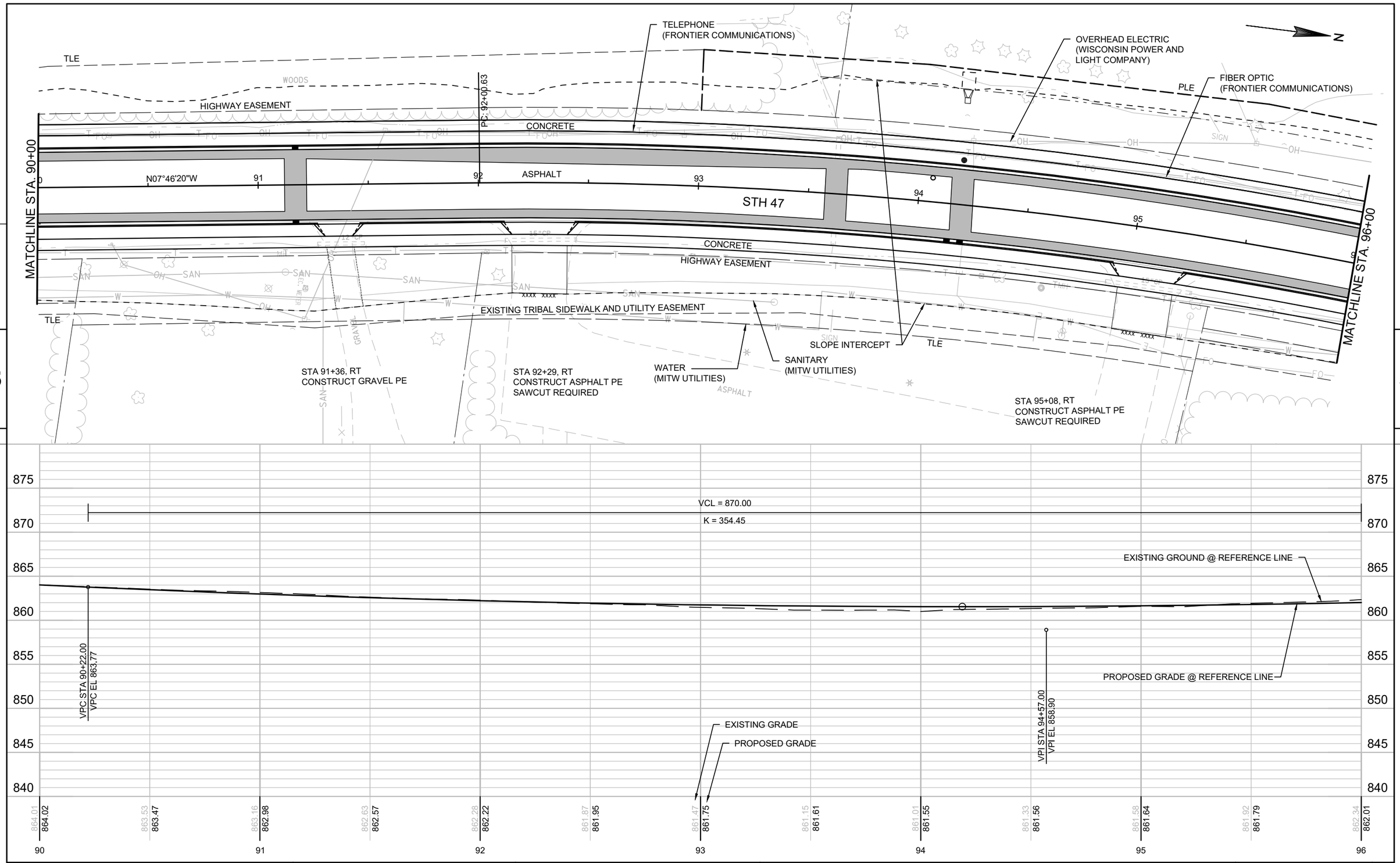
867.15	867.03	866.53	866.21	865.71
867.20	867.03	866.71	866.25	865.70
	87		88	

865.15	865.65	864.01
865.14	864.58	864.02
89		90

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE	SHEET 275 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0501_PP.DWG PLOT DATE : 1/9/2019 11:51 AM PLOT BY : DOLAN, ISAAC PLOT NAME : 050102_PP

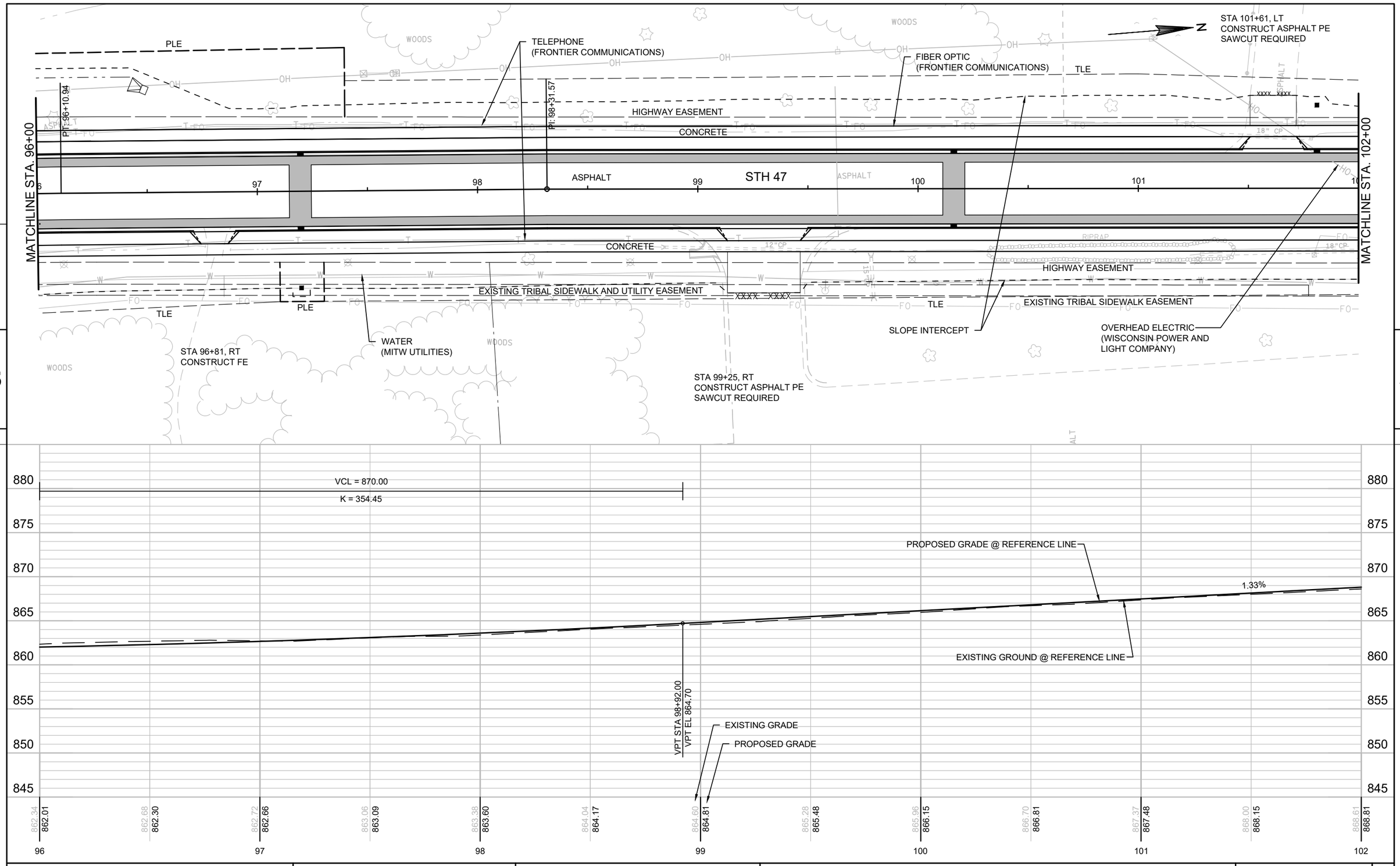
WISDOT/CADDS SHEET 40



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE	SHEET 276 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0501_PP.DWG PLOT DATE : 1/9/2019 11:51 AM PLOT BY : DOLAN, ISAAC PLOT NAME : 050103_PP

WISDOT/CADDS SHEET 40



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE	SHEET 277 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0501_PP.DWG PLOT DATE : 1/9/2019 11:51 AM PLOT BY : DOLAN, ISAAC PLOT NAME : 050104_PP

WISDOT/CADDS SHEET 40

STA 102+77, LT
CONSTRUCT ASPHALT PE
SAWCUT REQUIRED

SANITARY
(MITW UTILITIES)

FIBER OPTIC
(FRONTIER COMMUNICATIONS)

MATCHLINE STA. 102+00

MATCHLINE STA. 108+00

P.I. 103+26.31

HIGHWAY EASEMENT

CONCRETE

STH 47

ASPHALT

ASPHALT

CONCRETE

CONCRETE

12"X18"CP

HIGHWAY EASEMENT

TLE

TLE

TLE

EXISTING TRIBAL SIDEWALK AND UTILITY EASEMENT

WARRINGTON RD

WATER
(MITW UTILITIES)

TELEPHONE
(FRONTIER COMMUNICATIONS)

OVERHEAD ELECTRIC
(WISCONSIN POWER AND LIGHT COMPANY)

SLOPE INTERCEPT

STA 102+96, RT
CONSTRUCT URBAN INTERSECTION
MATCH EXISTING
SAWCUT REQUIRED

STA 106+96, RT
CONSTRUCT ASPHALT PE
SAWCUT REQUIRED

5

5

VPC STA 104+11.00
VPC EL 871.63

VPI STA 106+11.00
VPI EL 874.30

PROPOSED GRADE @ REFERENCE LINE

EXISTING GROUND @ REFERENCE LINE

VCL = 400.00

K = 402.01

EXISTING GRADE

PROPOSED GRADE

868.61	868.81	869.45	869.48	869.97	870.15	870.72	870.82	871.33	871.48	872.03	872.13	872.77	872.72	873.27	873.25	873.69	873.71	873.87	874.11	874.23	874.45	874.51	874.73	874.94	874.94
102				103				104				105				106				107				108	

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE	SHEET 278	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0501_PP.DWG PLOT DATE : 1/9/2019 11:51 AM PLOT BY : DOLAN, ISAAC PLOT NAME : 050105_PP

WISDOT/CADDS SHEET 40

STA 108+69, LT
CONSTRUCT GRAVEL PE

SANITARY
(MITW UTILITIES)

FIBER OPTIC
(FRONTIER COMMUNICATIONS)

STA 112+35, LT
CONSTRUCT GRAVEL PE

PLE

N

TLE

HIGHWAY EASEMENT

PI 108+16.38

PI 108+04.73

WOODS

CONCRETE

MATCHLINE STA. 108+00

ASPHALT

STH 47

MATCHLINE STA. 114+00

HIGHWAY EASEMENT

CONCRETE

TLE

HIGHWAY EASEMENT

PLE

TLE

SIGN

SLOPE INTERCEPT

TELEPHONE
(FRONTIER COMMUNICATIONS)

ASPHALT

STA 110+71, RT
CONSTRUCT ASPHALT PE
SAWCUT REQUIRED

STA 111+31, RT
CONSTRUCT ASPHALT PE
SAWCUT REQUIRED

TLE

PLE

CHIEF LITTLE WAVE RD

WATER
(MITW UTILITIES)

OVERHEAD ELECTRIC
(WISCONSIN POWER AND
LIGHT COMPANY)

STA 112+18, RT
CONSTRUCT URBAN INTERSECTION
MATCH EXISTING
SAWCUT REQUIRED

A/C

5

5

STA 108+50.00
EL 875.11

STA 109+00.00
EL 875.26

STA 109+85.00
EL 875.01

STA 110+77.00
EL 875.34

0.34%

0.30%

-0.30%

0.36%

0.30%

EXISTING GROUND @ REFERENCE LINE

PROPOSED GRADE @ REFERENCE LINE

VCL = 400.00

K = 402.01

EXISTING GRADE

PROPOSED GRADE

108	109	110	111	112	113	114
874.94	875.11	875.17	875.09	875.04	875.28	875.49	875.58	875.69	875.77	876.01	876.00	876.18
874.94	875.11	875.26	875.11	875.06	875.24	875.40	875.55	875.70	875.85	876.00	876.14	876.29

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE	SHEET 279 E

STA 114+20, LT
CONSTRUCT GRAVEL PE

STA 117+27, LT
CONSTRUCT GRAVEL PE

SANITARY
(MITW UTILITIES)

STA 119+00, LT
CONSTRUCT PE
(CONCRETE APRON ONLY)

FIBER OPTIC
(FRONTIER COMMUNICATIONS)

WOODS

TLE

HIGHWAY EASEMENT

CONCRETE

MATCHLINE STA. 114+00

MATCHLINE STA. 119+50

ASPHALT

STH 47

HIGHWAY EASEMENT

TELEPHONE
(FRONTIER COMMUNICATIONS)

OVERHEAD ELECTRIC
(WISCONSIN POWER AND
LIGHT COMPANY)

SLOPE INTERCEPT

WATER
(MITW UTILITIES)

STA 116+76, RT
CONSTRUCT FE

STA 114+86, RT
CONSTRUCT GRAVEL PE

STA 116+29, RT
CONSTRUCT CONCRETE PE
SAWCUT REQUIRED

STA 117+80, RT
CONSTRUCT GRAVEL PE

STA 119+00, RT
CONSTRUCT GRAVEL PE

GRAVEL

CONC

A/C

N

5

5

890
885
880
875
870
865
860
855

STA 114+25.00
EL 876.36

STA 114+81.00
EL 876.85

STA 116+77.00
EL 877.44

VPC STA 117+15.00
VPC EL 877.58

PROPOSED GRADE @ REFERENCE LINE

0.86%

0.30%

0.38%

EXISTING GROUND @ REFERENCE LINE

EXISTING GRADE

PROPOSED GRADE

VCL = 590.00

K = 195.57

876.18	876.54	876.91	877.11	877.10	877.30	877.48	877.62	877.64	877.74	877.52	877.01
876.29	876.58	876.90	877.05	877.20	877.35	877.52	877.68	877.71	877.62	877.40	877.05
114		115		116		117		118		119	

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE	SHEET 280 E

STA 120+80, LT
CONSTRUCT ASPHALT PE
SAWCUT REQUIRED

FIBER OPTIC
(FRONTIER
COMMUNICATIONS)

STA 120+66, LT
CONSTRUCT URBAN INTERSECTION
MATCH EXISTING
SAWCUT REQUIRED

MORRIN ST

SANITARY
(MITW UTILITIES)

HIGHWAY EASEMENT

TLE

PI STA 119+72.05

PI STA 122+69.88

CONCRETE

ASPHALT

MATCHLINE STA. 119+50

MATCHLINE STA. 125+00

STH 47

WATER
(MITW UTILITIES)

TELEPHONE
(FRONTIER
COMMUNICATIONS)

OVERHEAD ELECTRIC
(WISCONSIN POWER AND
LIGHT COMPANY)

HIGHWAY EASEMENT

SLOPE INTERCEPT

STA 120+25, RT
CONSTRUCT PE
(CONCRETE APRON ONLY)

STA 121+27, RT
GRAVEL PE

STA 122+26, RT
GRAVEL PE

STA 123+00, RT
CONCRETE PE

STA 124+75, RT
GRAVEL PE

VPI STA 120+10.00
VPI EL 878.68

PROPOSED GRADE @ REFERENCE LINE

EXISTING GROUND @ REFERENCE LINE

VPT STA 123+05.00
VPT EL 870.89

-2.64%

VCL = 150.00
K = 65.15

VCL = 590.00
K = 195.57

VPC STA 124+40.00
VPC EL 867.32

EXISTING GRADE
PROPOSED GRADE

877.01	876.36	875.73	874.96	874.25	873.39	872.24	870.94	869.76	868.27	867.03	865.94
877.05	876.57	875.97	875.23	874.37	873.38	872.27	871.02	869.70	868.38	867.07	866.02

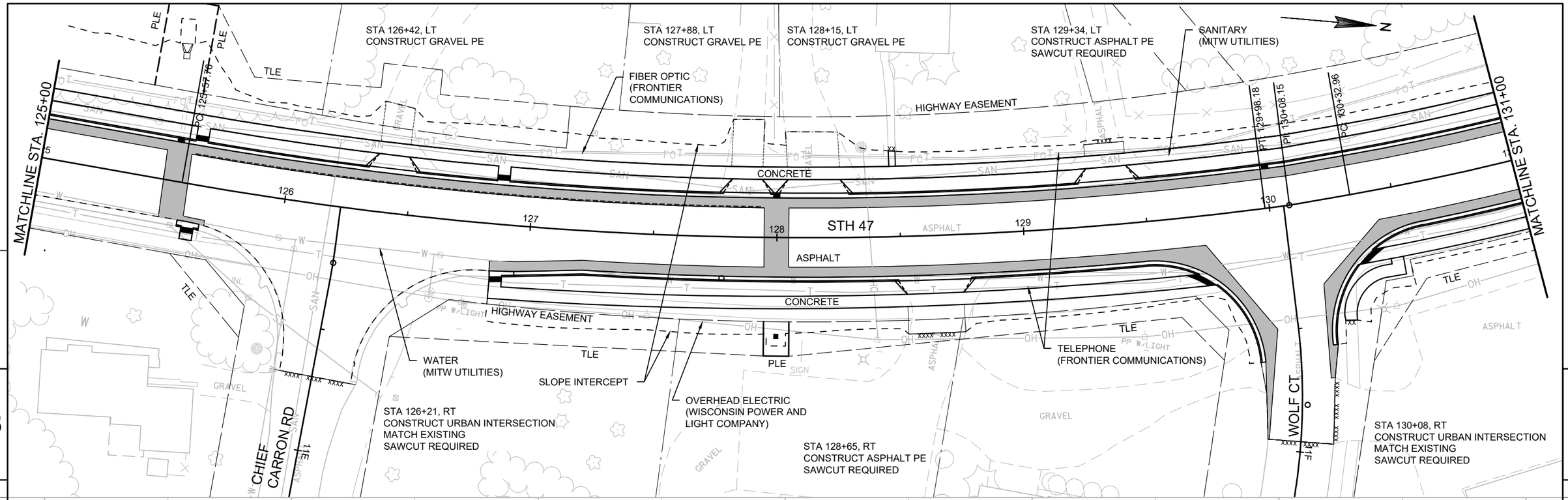
890 885 880 875 870 865 860 855

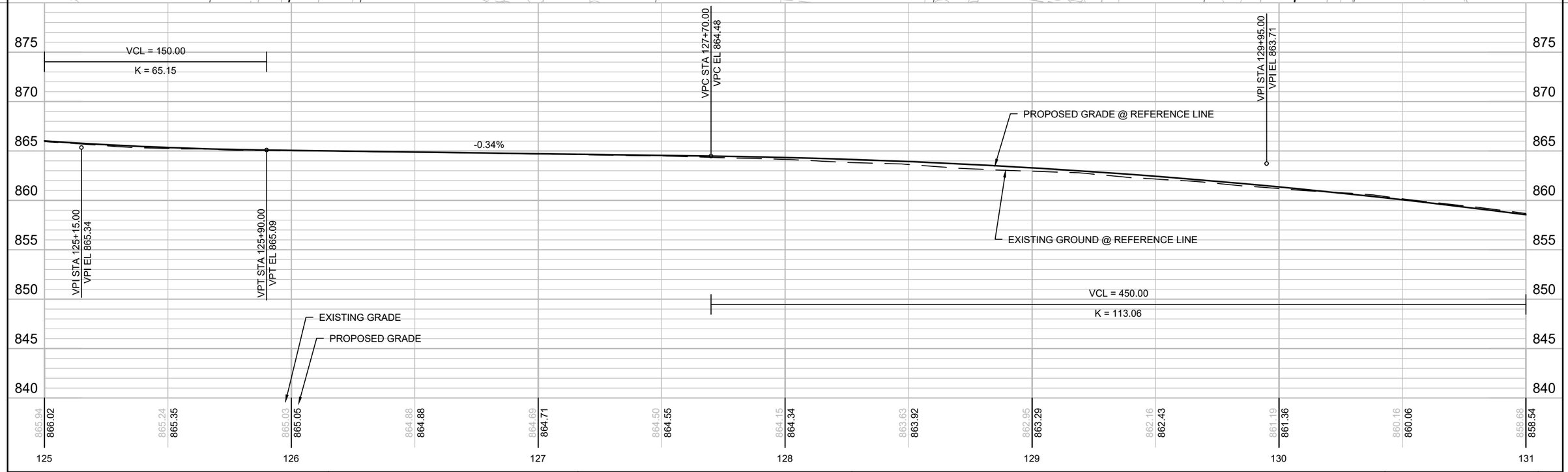
120 121 122 123 124 125

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE	SHEET E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0501_PP.DWG PLOT DATE : 1/9/2019 11:51 AM PLOT BY : DOLAN, ISAAC PLOT NAME : 050108_PP

WISDOT/CADDS SHEET 40





PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE	SHEET 282	E

STA 132+00, LT
CONSTRUCT URBAN INTERSECTION
MATCH EXISTING
SAWCUT REQUIRED

BROOKS LN

MATCHLINE STA. 131+00

MATCHLINE STA. 137+00

FIBER OPTIC
(FRONTIER COMMUNICATIONS)

WETLAND BOUNDARY

PLE

WETLAND AREA 3

TLE

HIGHWAY EASEMENT

CONCRETE

ASPHALT

STH 47

N36°07'25"W135

PT 134+01.69

PC 135+69.36

SANITARY
(MITW UTILITIES)

ABANDONED WATER MAIN

WATER
(MITW UTILITIES)

SLOPE INTERCEPT

OVERHEAD ELECTRIC
(WISCONSIN POWER AND LIGHT COMPANY)

STA 132+10, RT
CONSTRUCT URBAN INTERSECTION

OUR CHILDRENS RD

WETLAND AREA 3

WETLAND BOUNDARY

VCL = 450.00
K = 113.06

VPT STA 132+20.00
VPT EL 853.99

EXISTING GROUND @ REFERENCE LINE

-4.32%

PROPOSED GRADE @ REFERENCE LINE

VCL = 600.00
K = 68.25

VPC STA 136+20.00
VPC EL 836.72

EXISTING GRADE

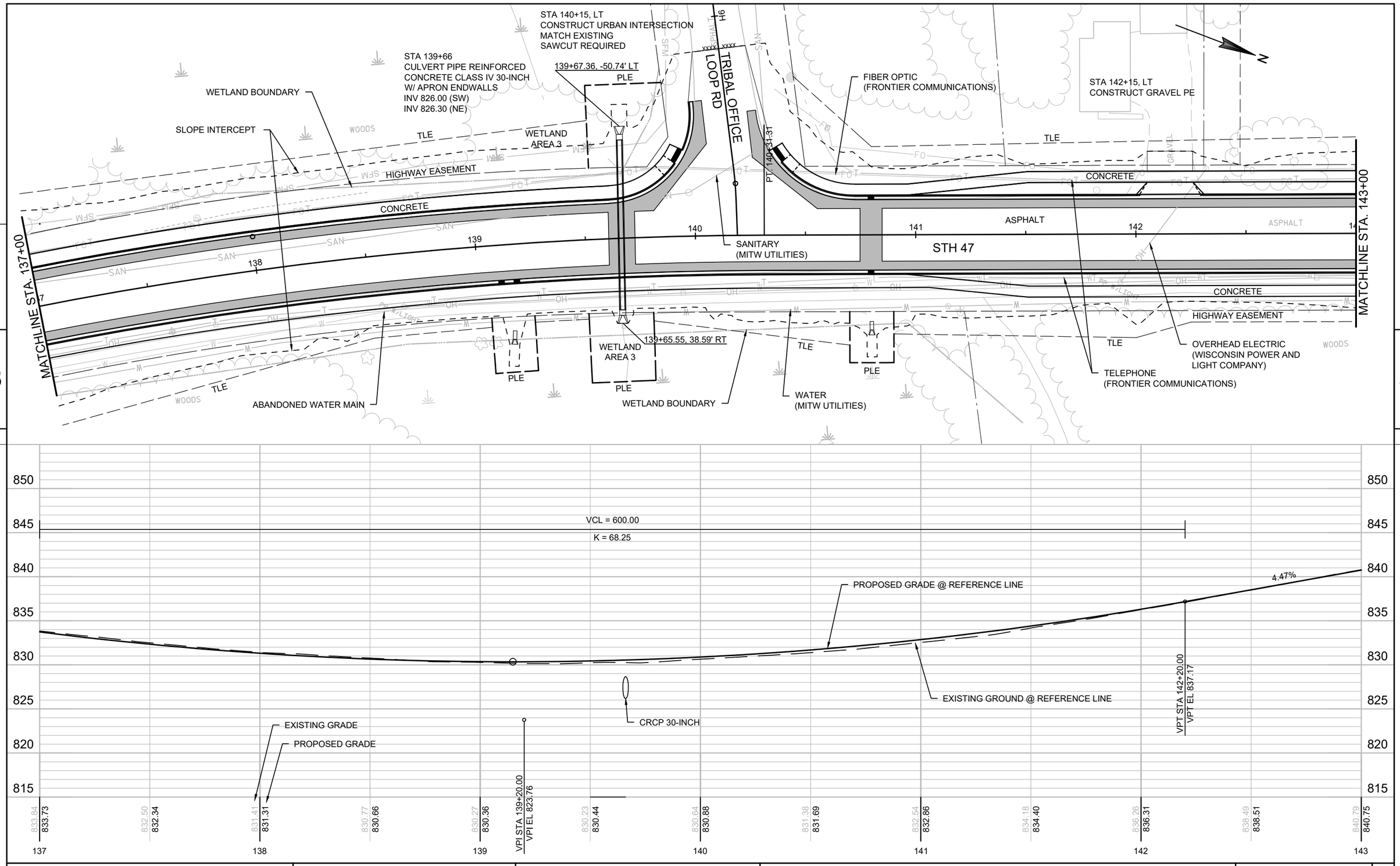
PROPOSED GRADE

131	132	133	134	135	136	137
858.68 / 858.54	856.84 / 856.80	854.89 / 854.84	852.71 / 852.70	850.58 / 850.54	848.37 / 848.38	846.31 / 846.22	843.99 / 844.06	841.88 / 841.90	839.67 / 839.74	837.56 / 837.58	835.55 / 835.49	833.84 / 833.73

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE	SHEET 283 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0501_PP.DWG PLOT DATE : 1/9/2019 11:51 AM PLOT BY : DOLAN, ISAAC PLOT NAME : 050110_PP

WISDOT/CADDS SHEET 40



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE	SHEET 284 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0501_PP.DWG PLOT DATE : 1/9/2019 11:51 AM PLOT BY : DOLAN, ISAAC PLOT NAME : 0501_PP

WISDOT/CADDS SHEET 40

STA 143+59, LT
CONSTRUCT GRAVEL PE

STA 145+05, LT
CONSTRUCT GRAVEL PE

STA 145+30, LT
CONSTRUCT GRAVEL PE

STA 147+15, LT
CONSTRUCT URBAN INTERSECTION
MATCH EXISTING
SAWCUT REQUIRED

TRIBAL OFFICE LOOP RD

ABANDONED WATER MAIN

STA 148+73, LT
CONSTRUCT GRAVEL PE

MATCHLINE STA. 149+00

OVERHEAD ELECTRIC
(WISCONSIN POWER AND
LIGHT COMPANY)

SLOPE INTERCEPT

FIBER OPTIC
(FRONTIER COMMUNICATIONS)

TLE

HIGHWAY EASEMENT

CONCRETE

MATCHLINE STA. 143+00

N20°59'58"W

ASPHALT

STH 47

SANITARY
(MITW UTILITIES)

ABANDONED WATER
MAIN

TELEPHONE
(FRONTIER COMMUNICATIONS)

WATER
(MITW UTILITIES)

END RECONDITION
BEGIN RECONSTRUCTION
STA. 146+00

STA 144+60, RT
CONSTRUCT ASPHALT PE
SAWCUT REQUIRED

STA 147+50, RT
CONSTRUCT ASPHALT PE
SAWCUT REQUIRED

STA 143+11.00
EL 841.24

STA 143+61.00
EL 843.31

STA 144+16.00
EL 845.15

STA 145+00.00
EL 846.31

STA 145+51.00
EL 846.40

STA 146+00.00
EL 845.73

VPC STA 146+75.00
VPC EL 843.53

VPI STA 147+00.00
VPI EL 842.80

VPT STA 147+25.00
VPT EL 841.77

VPC STA 148+44.00
VPC EL 836.90

4.14%

3.36%

1.37%

0.18%

-1.37%

-2.93%

-4.09%

VCL = 500.00
K = 139.36

VCL = 50.00
K = 43.10

EXISTING GROUND @ REFERENCE LINE

PROPOSED GRADE @ REFERENCE LINE

EXISTING GRADE

PROPOSED GRADE

| | | |

STA 149+59, LT
CONSTRUCT CONCRETE PE

STA 150+36, LT
CONSTRUCT GRAVEL PE

STA 149+95, LT
CONSTRUCT CONCRETE PE

SLOPE INTERCEPT

STA 152+49, LT
CONSTRUCT ASPHALT PE

STA 152+91, LT
CONSTRUCT ASPHALT PE

TELEVISION
(CHARTER COMMUNICATIONS)

SANITARY
(MITW UTILITIES)

WETLAND
AREA 2

WETLAND BOUNDARY

PLE

TLE

HIGHWAY EASEMENT

CONCRETE

FIBER OPTIC
(FRONTIER COMMUNICATIONS)

ASPHALT

STH 47

N64°30'02"W

MATCHLINE STA. 149+00

MATCHLINE STA. 155+00

HIGHWAY EASEMENT

OVERHEAD ELECTRIC
(WISCONSIN POWER AND
LIGHT COMPANY)

TELEPHONE
(FRONTIER COMMUNICATIONS)

WATER
(MITW UTILITIES)

ABANDONED WATER
MAIN

STA 151+95, RT
CONSTRUCT GRAVEL PE

STA 153+10, RT
CONSTRUCT GRAVEL PE

FIBER OPTIC
(FRONTIER COMMUNICATIONS)

STA 154+21.35
STRUCTURE C-73-0004
SINGLE CELL 6'WX3'H PRECAST
CONCRETE BOX CULVERT
101' BARREL LENGTH
4° SKEW RHF

WETLAND AREA 2

STA 154+51, RT
CONSTRUCT URBAN INTERSECTION
MATCH EXISTING
SAWCUT REQUIRED

CTH W

ABANDONED WATER
MAIN

VCL = 500.00
K = 139.36

VCL = 110.00
K = 109.78

PROPOSED GRADE @ REFERENCE LINE

-0.50%

EXISTING GROUND @ REFERENCE LINE

EXISTING GRADE

PROPOSED GRADE

VPI STA 150+94.00
VPI EL 826.67

VPT STA 153+44.00
VPT EL 825.41

VPC STA 154+92.00
VPC EL 824.66

834.88	834.72	833.04	832.97	831.28	831.39	829.94	829.99	828.80	828.78	827.85
827.74	826.83	826.88	825.99	826.20	825.20	825.70	824.54	825.38	824.34	825.13
824.11	824.87	824.09	824.63							

149 150 151 152 153 154 155

845 840 835 830 825 820 815 810

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE	SHEET 286 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0501_PP.DWG PLOT DATE : 1/9/2019 11:51 AM PLOT BY : DOLAN, ISAAC PLOT NAME : 050113_PP

WISDOT/CADDS SHEET 40

STA 156+89, LT
CONSTRUCT URBAN INTERSECTION
MATCH EXISTING
SAWCUT REQUIRED

HIGHWAY EASEMENT

FAIRGROUNDS RD

END RECONSTRUCTION
BEGIN RECONDITION
STA. 157+63

SANITARY
(MITW UTILITIES)

SLOPE INTERCEPT

TLE

HIGHWAY EASEMENT

TELEVISION
(CHARTER COMMUNICATIONS)

CONCRETE

MATCHLINE STA. 155+00

MATCHLINE STA. 161+00

STH 47

ABANDONED WATER
MAIN

ASPHALT

CONCRETE

HIGHWAY EASEMENT

TLE

TLE

WATER
(MITW UTILITIES)

FIBER OPTIC
(FRONTIER COMMUNICATIONS)

TELEPHONE
(FRONTIER COMMUNICATIONS)

OVERHEAD ELECTRIC
(WISCONSIN POWER AND
LIGHT COMPANY)

WATER
(MITW UTILITIES)

VCL = 110.00
K = 109.78

VCL = 150.00
K = 208.98

VCL = 385.00
K = 254.07

EXISTING GROUND @ REFERENCE LINE

PROPOSED GRADE @ REFERENCE LINE

0.50%

1.22%

VPI STA 155+47.00
VPI EL 824.39

VPT STA 156+02.00
VPT EL 824.66

VPC STA 156+54.00
VPC EL 824.92

VPI STA 157+29.00
VPI EL 825.29

VPT STA 158+04.00
VPT EL 826.20

VPC STA 158+48.50
VPC EL 826.74

VPI STA 160+41.00
VPI EL 829.08

EXISTING GRADE

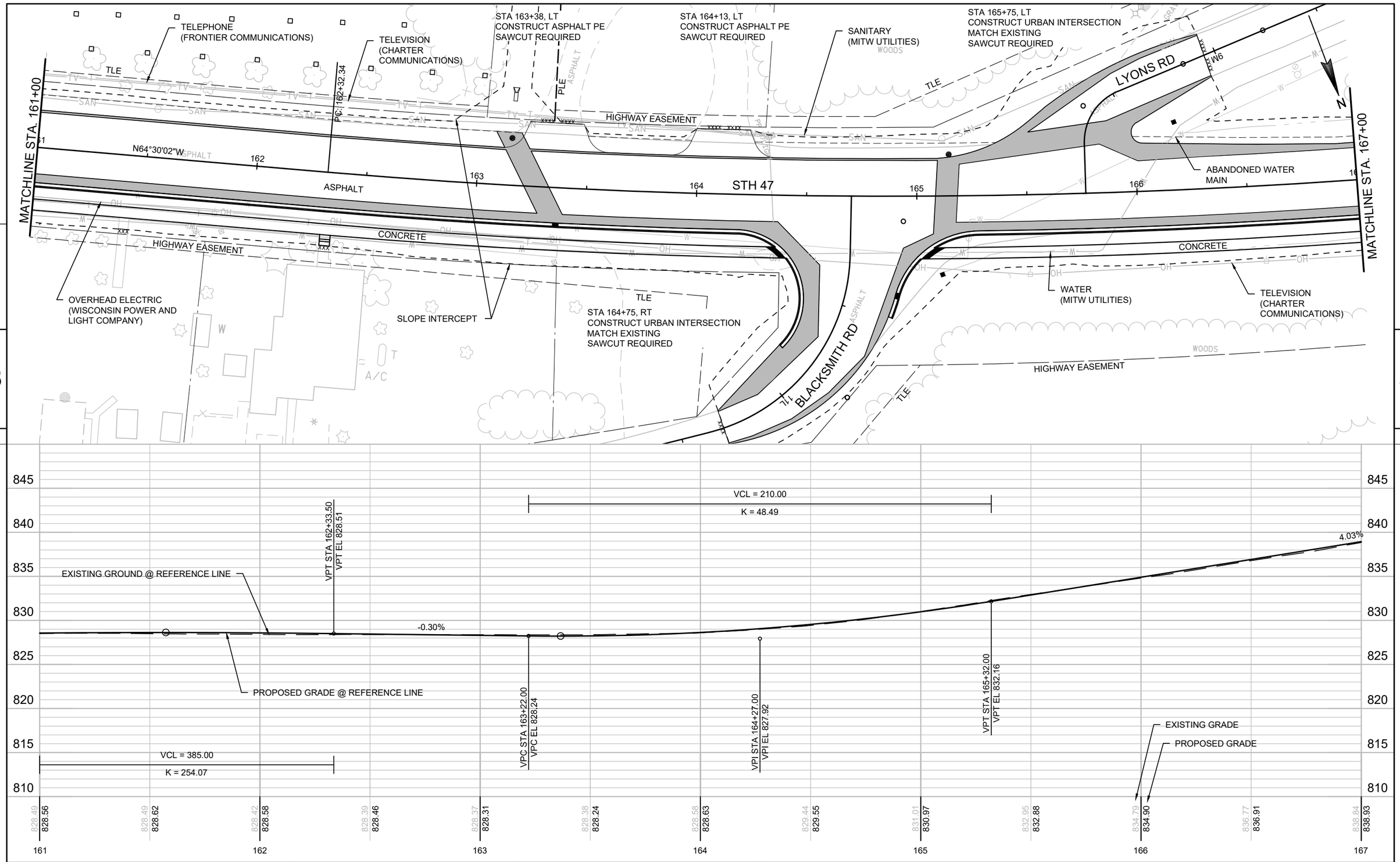
PROPOSED GRADE

155	156	157	158	159	160	161
824.09 / 824.63	824.36 / 824.52	824.69 / 824.65	824.93 / 824.90	825.26 / 825.20	825.59 / 825.62	826.16 / 826.15
						826.77 / 826.76
						827.35 / 827.32
						827.92 / 827.77
						828.19 / 828.13
						828.35 / 828.39
						828.49 / 828.56

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE	SHEET 287	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0501_PP.DWG PLOT DATE : 1/9/2019 11:51 AM PLOT BY : DOLAN, ISAAC PLOT NAME : 050114_PP

WISDOT/CADDS SHEET 40



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE	SHEET 288 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0501_PP.DWG PLOT DATE : 1/9/2019 11:51 AM PLOT BY : DOLAN, ISAAC PLOT NAME : 050115_PP

WISDOT/CADDS SHEET 40

MATCHLINE STA. 167+00

MATCHLINE STA. 173+00

HIGHWAY EASEMENT

SLOPE INTERCEPT

WOODS

GRAVEL

TELEPHONE
(FRONTIER COMMUNICATIONS)

ASPHALT

STH 47

N74°29'35"W

CONCRETE

CONCRETE

CONCRETE

HIGHWAY EASEMENT

HIGHWAY EASEMENT

WETLAND
AREA 1

WETLAND BOUNDARY

SLOPE INTERCEPT

OVERHEAD ELECTRIC
(WISCONSIN POWER AND
LIGHT COMPANY)

SANITARY
(MITW UTILITIES)

WATER
(MITW UTILITIES)

RABBIT RIDGE RD

TELEVISION
(CHARTER COMMUNICATIONS)

SIGN

STA 171+57, RT
CONSTRUCT URBAN INTERSECTION
MATCH EXISTING
SAWCUT REQUIRED

VPC STA 168+60.00
VPC EL 845.38

VPI STA 170+60.00
VPI EL 853.44

VPT STA 172+60.00
VPT EL 857.41

PROPOSED GRADE @ REFERENCE LINE

EXISTING GROUND @ REFERENCE LINE

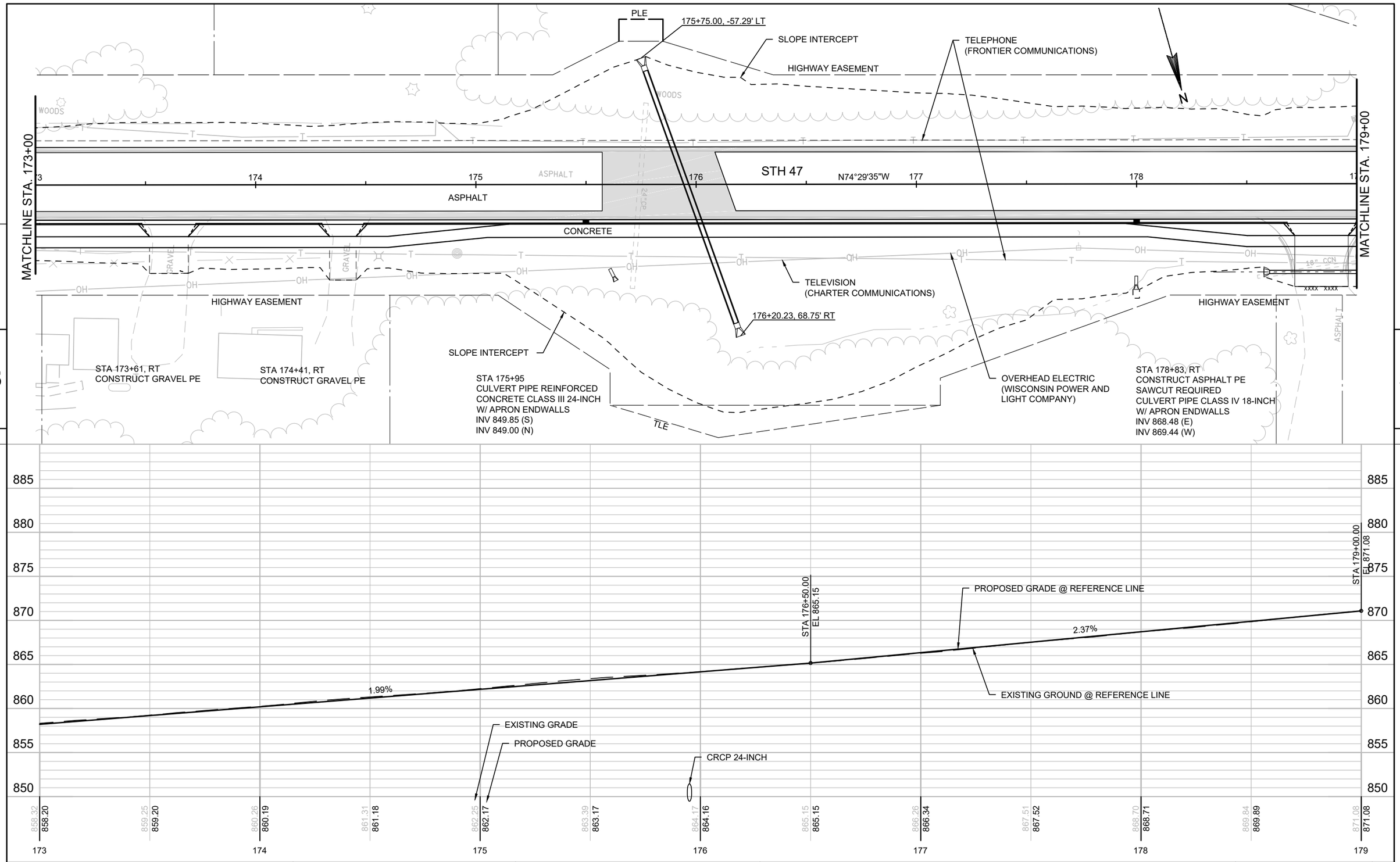
EXISTING GRADE

PROPOSED GRADE

VCL = 400.00

K = 195.57

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE	SHEET 289 E



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE	SHEET 290 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0501_PP.DWG PLOT DATE : 1/9/2019 11:51 AM PLOT BY : DOLAN, ISAAC PLOT NAME : 050117_PP

WISDOT/CADDS SHEET 40

STA 180+20, LT
CONSTRUCT GRAVEL PE

STA 180+75, LT
CONSTRUCT URBAN INTERSECTION
MATCH EXISTING
SAWCUT REQUIRED

LYONS RD

90°

PC: 180+12.76

MATCHLINE STA. 179+00

MATCHLINE STA. 185+00

N74°29'35"W

N81°01'07"W

PT: 184+34.16

HIGHWAY EASEMENT

TELEPHONE
(FRONTIER COMMUNICATIONS)

WATER
(MITW UTILITIES)

SANITARY
(MITW UTILITIES)

ASPHALT

CONCRETE

WOODS

RIPRAP

STH 47

18" CCN

STA 180+00, RT
CONSTRUCT ASPHALT PE
SAWCUT REQUIRED
CULVERT PIPE REINFORCED
CONCRETE CLASS IV 18-INCH
W/ APRON ENDWALLS
INV 870.66 (E)
INV 871.62 (W)

STA 180+54, RT
CONSTRUCT GRAVEL PE
CULVERT PIPE REINFORCED
CONCRETE CLASS IV 18-INCH
W/ APRON ENDWALLS
INV 871.97 (E)
INV 872.54 (W)

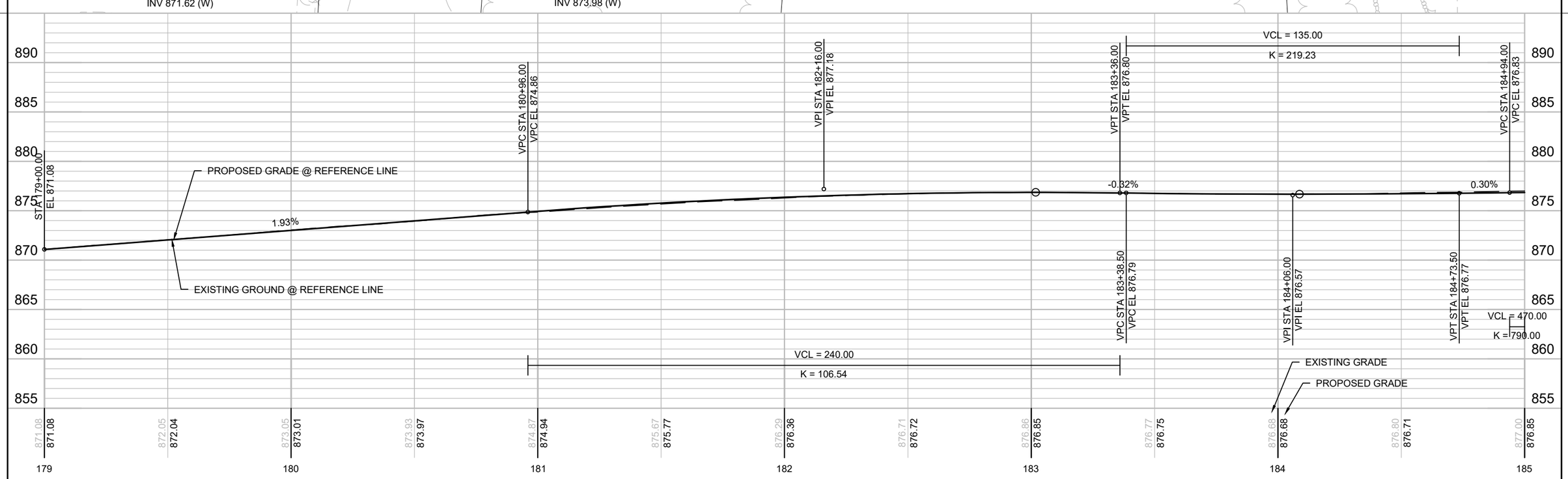
STA 181+33, RT
CONSTRUCT GRAVEL PE
CULVERT PIPE REINFORCED
CONCRETE CLASS IV 18-INCH
W/ APRON ENDWALLS
INV 873.47 (E)
INV 873.98 (W)

HIGHWAY EASEMENT

SLOPE INTERCEPT

OVERHEAD ELECTRIC
(WISCONSIN POWER AND
LIGHT COMPANY)

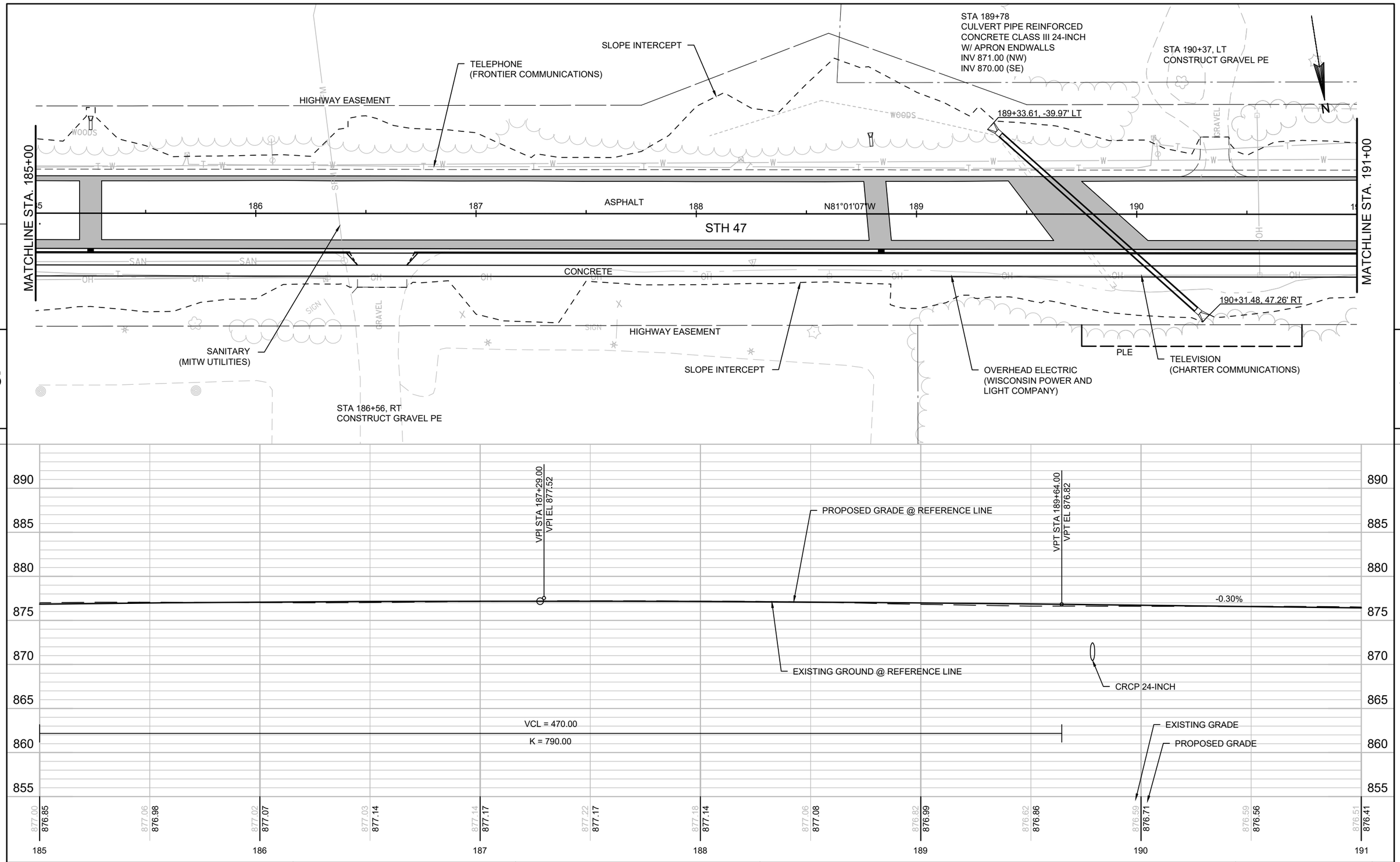
TELEVISION
(CHARTER COMMUNICATIONS)



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE	SHEET 291	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0501_PP.DWG PLOT DATE : 1/9/2019 11:51 AM PLOT BY : DOLAN, ISAAC PLOT NAME : 050118_PP

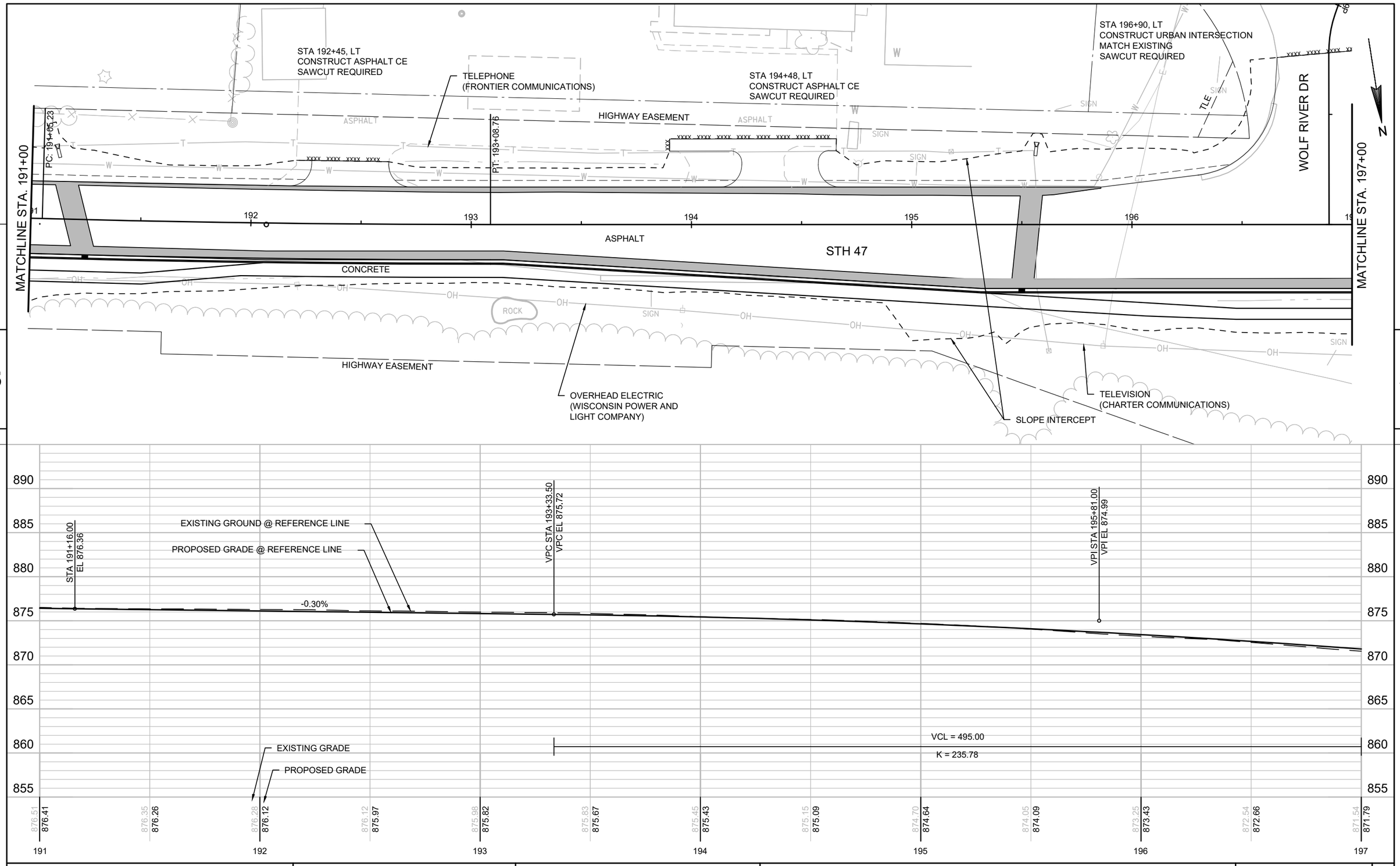
WISDOT/CADDS SHEET 40



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE	SHEET 292 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0501_PP.DWG PLOT DATE : 1/9/2019 11:51 AM PLOT BY : DOLAN, ISAAC PLOT NAME : 050119_PP

WISDOT/CADDS SHEET 40



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE	SHEET 293 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0501_PP.DWG PLOT DATE : 1/9/2019 11:51 AM PLOT BY : DOLAN, ISAAC PLOT NAME : 050120_PP

WISDOT/CADDS SHEET 40

STA 200+35
CULVERT PIPE REINFORCED
CONCRETE CLASS III 36-INCH
W/ APRON ENDWALLS
INV 849.25 (S)
INV 852.00 (N)

PLE

SLOPE INTERCEPT

TLE

HIGHWAY EASEMENT

200+36.00, -61.07' LT

N

WOLF RIVER DR

MATCHLINE STA. 197+00

MATCHLINE STA. 203+00

PC: 201+52.04

SIGN

ASPHALT

STH 47

CONCRETE

TELEVISION
(CHARTER COMMUNICATIONS)

200+37.50, 67.40' RT

HIGHWAY EASEMENT

TLE

OVERHEAD ELECTRIC
(WISCONSIN POWER AND
LIGHT COMPANY)

STA 197+95.30
END RECONDITION
BEGIN RESURFACE

PROPOSED GRADE
@ REFERENCE LINE

EXISTING GROUND
@ REFERENCE LINE

VPT STA 198+28.50
VPT EL 869.07

-2.39%

VCL = 495.00

K = 235.78

CRCP 36-INCH

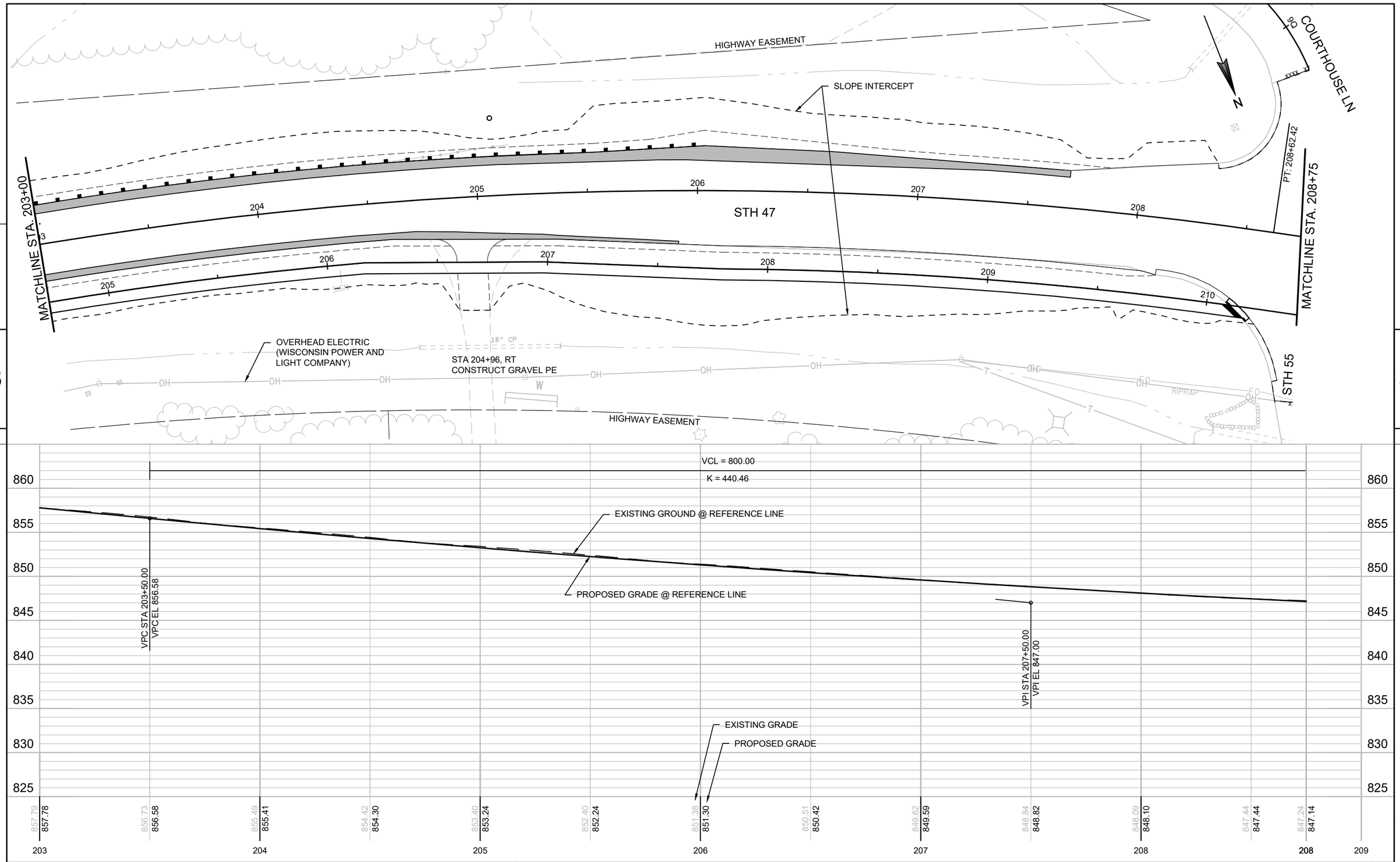
EXISTING GRADE

PROPOSED GRADE

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE	SHEET	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0501_PP.DWG PLOT DATE : 1/9/2019 11:51 AM PLOT BY : DOLAN, ISAAC PLOT NAME : 050121_PP

WISDOT/CADDS SHEET 40



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE	SHEET 295 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0501_PP.DWG PLOT DATE : 1/9/2019 11:51 AM PLOT BY : DOLAN, ISAAC PLOT NAME : 050122_PP

WISDOT/CADDS SHEET 40

HIGHWAY EASEMENT

N

COURTHOUSE LN

PC: 209+02.78

PT: 210+61.21

RIPRAP

ASPHALT

MATCHLINE STA. 208+75

MATCHLINE STA. 214+50

STH 47

STH 55

SLOPE INTERCEPT

RIPRAP

WOLF RIVER

TELEVISION
(CHARTER COMMUNICATIONS)

END CONSTRUCTION 9650-17-70
BEGIN PROJECT 9650-17-61
STA 212+12.34
Y = 62,513.537
X = 284,269.878

OVERHEAD ELECTRIC
(WISCONSIN POWER AND
LIGHT COMPANY)

VCL = 800.00
K = 440.46

PROPOSED GRADE @ REFERENCE LINE
EXISTING GROUND @ REFERENCE LINE

STA 212+38.52
EL 844.17

-0.58%

-0.52%

VPT STA 211+50.00
VPT EL 844.69

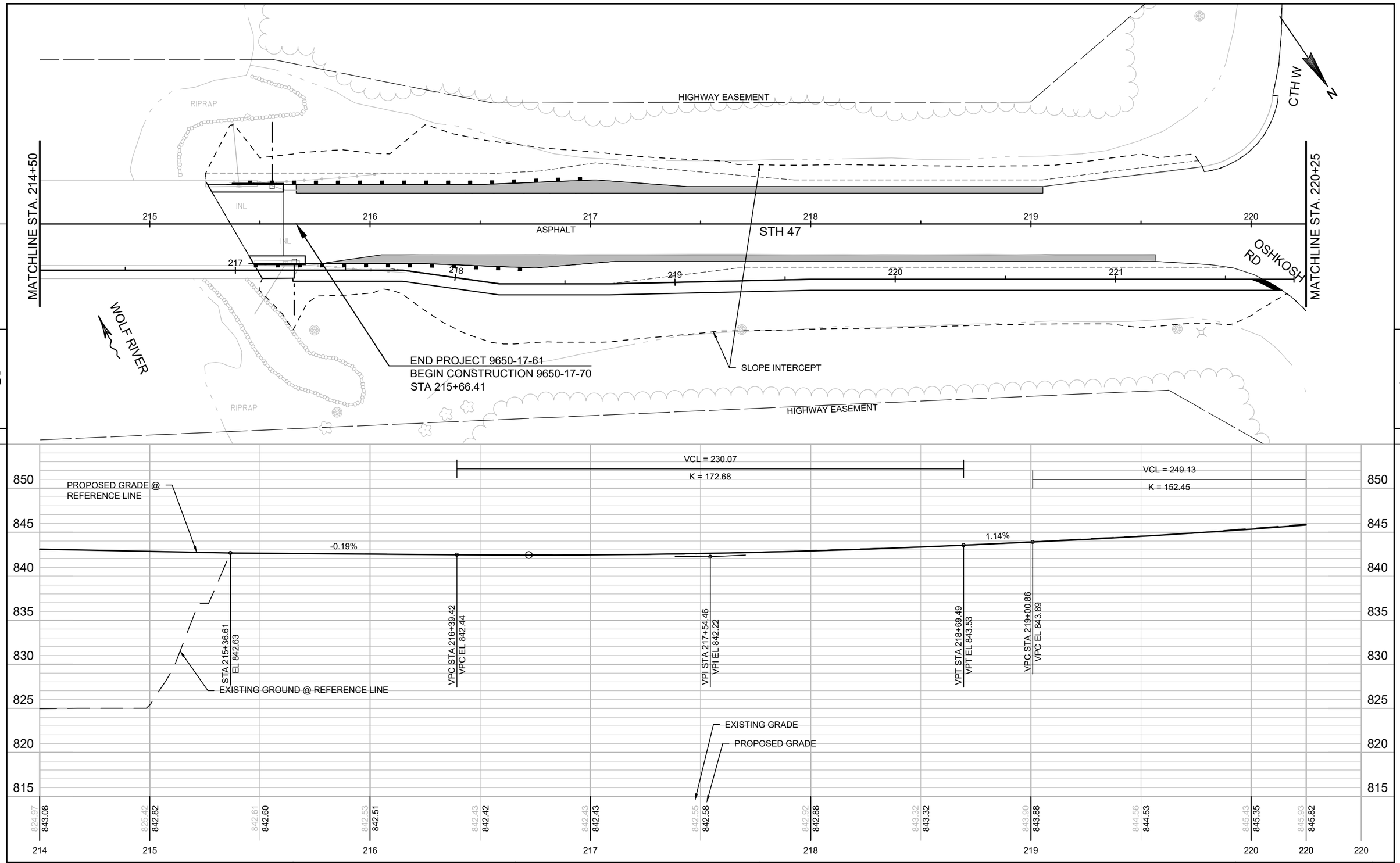
EXISTING GRADE
PROPOSED GRADE

847.24	847.14	847.02	846.84	846.34	846.30	845.82	845.81	845.46	845.38	845.10	845.00	844.74	844.69	844.43	844.40	837.93	844.12	824.91	843.86	824.92	843.60	824.92	843.34	824.97	843.08
208	208	209				210				211				212				213				214		214	

PROJECT NO: 9650-17-61/70	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE	SHEET E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0501_PP.DWG PLOT DATE : 1/9/2019 11:51 AM PLOT BY : DOLAN, ISAAC PLOT NAME : 050123_PP

WISDOT/CADDS SHEET 40



PROJECT NO: 9650-17-61/70	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE	SHEET 297 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0501_PP.DWG PLOT DATE : 1/9/2019 11:51 AM PLOT BY : DOLAN, ISAAC PLOT NAME : 050124_PP

WISDOT/CADDS SHEET 40

CTH W

HIGHWAY EASEMENT

MATCHLINE STA. 220+25

PC: 223+40.07

STH 47

13R

221

222

223

224

225

226

ASPHALT

OSHKOSH RD

14R

HIGHWAY EASEMENT

END PROJECT 9650-17-70
STA 221+50.00
MATCH EXISTING - SAWCUT REQUIRED

5

5

VCL = 249.13

K = 152.45

STA 221+50.00
EL 848.78

PROPOSED GRADE @ REFERENCE LINE

EXISTING GROUND @ REFERENCE LINE

2.78%

VPI STA 220+25.43
VPI EL 845.32

VPT STA 221+50.00
VPT EL 848.77

EXISTING GRADE

PROPOSED GRADE

865
860
855
850
845
840
835
830

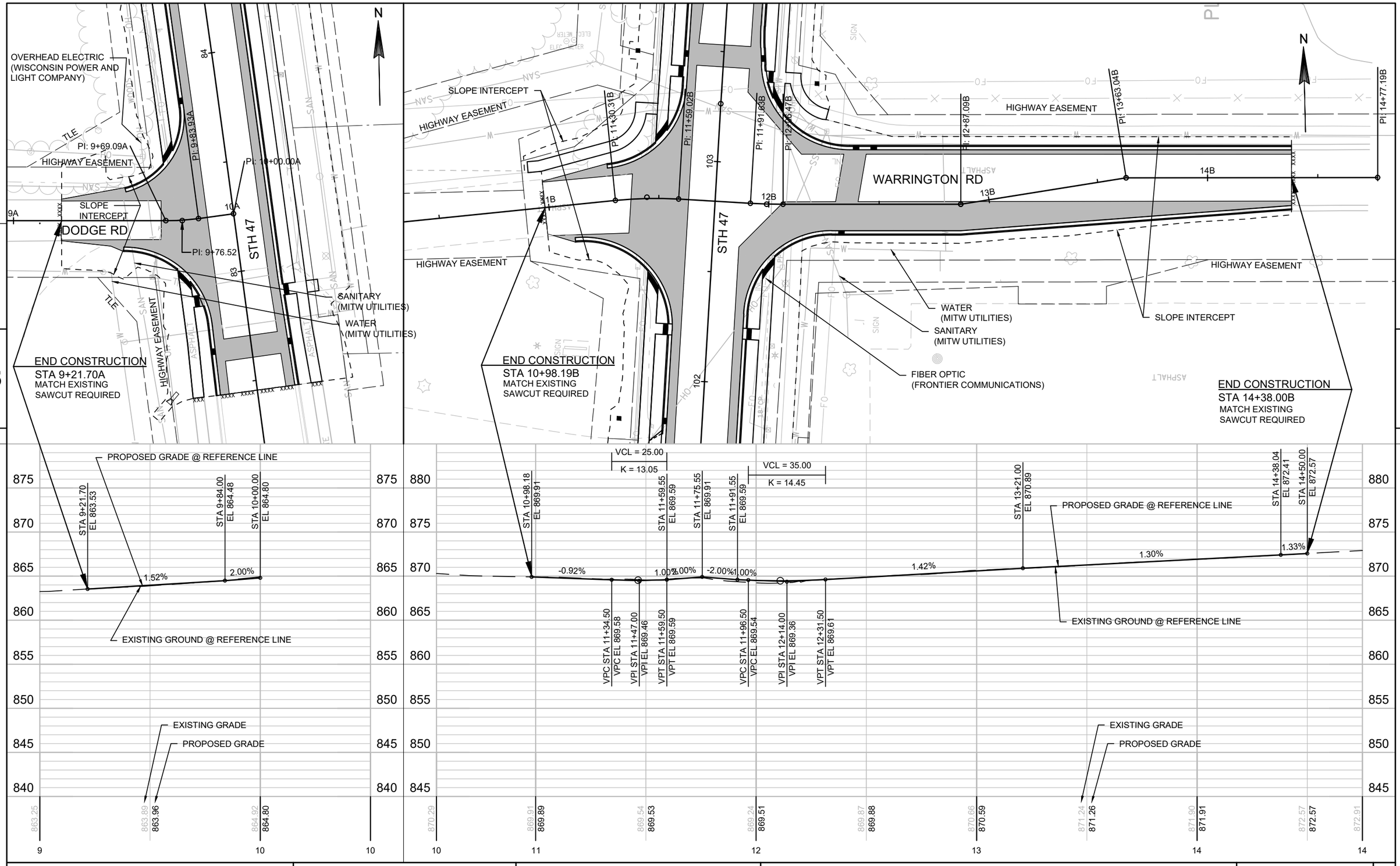
845.93 845.82 846.42 846.33 847.49 847.47 848.78 848.78 850.10 851.61 853.36 855.06 856.66 858.40 860.09 861.64 863.20 863.84

220 221 222 223 224 225 226 226

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE	SHEET 298	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0501_PP.DWG PLOT DATE : 1/9/2019 11:51 AM PLOT BY : DOLAN, ISAAC PLOT NAME : 050125_PP

WISDOT/CADDS SHEET 40



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE - SIDEROAD INTERSECTIONS	SHEET 299	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0501_PP.DWG PLOT DATE : 1/9/2019 11:51 AM PLOT BY : DOLAN, ISAAC PLOT NAME : 050126_PP_SR

WISDOT/CADDS SHEET 40

5

N

113

PI: 10+00.00C

PI: 10+13.63C

PI: 10+33.37C

TLE

PI: 12+40.28C

SLOPE INTERCEPT

PI: 11+42.53C

12C

11C

ASPHALT

CHIEF LITTLE WAVE RD

HIGHWAY EASEMENT

STH 47

112

SANITARY
(MITW UTILITIES)

TELEPHONE
(FRONTIER COMMUNICATIONS)

WATER
(MITW UTILITIES)

OVERHEAD ELECTRIC
(WISCONSIN POWER AND
LIGHT COMPANY)

END CONSTRUCTION
STA 10+89.00C
MATCH EXISTING
SAWCUT REQUIRED

SANITARY
(MITW UTILITIES)

FIBER OPTIC
(FRONTIER COMMUNICATIONS)

TELEPHONE
(FRONTIER COMMUNICATIONS)

PI: 9+50.33

120

SLOPE INTERCEPT

MORRIN ST

HIGHWAY EASEMENT

PI: 10+00.00D

OVERHEAD ELECTRIC
(WISCONSIN POWER AND
LIGHT COMPANY)

PI: 9+83.97D

121

PI: 9+16.25D

HIGHWAY EASEMENT

END CONSTRUCTION
STA 10+00.00D
MATCH EXISTING
SAWCUT REQUIRED

TELEPHONE
(FRONTIER COMMUNICATIONS)

WATER
(MITW UTILITIES)

5

VCL = 20.00
K = 5.13

STA 10+00.00
EL 875.76

STA 10+23.00
EL 875.30

STA 10+89.00
EL 876.12

-2.00%

-2.00%

1.90%

PROPOSED GRADE @ REFERENCE LINE

EXISTING GROUND @ REFERENCE LINE

VPC STA 10+24.00
VPC EL 875.28

VPI STA 10+34.00
VPI EL 875.08

VPT STA 10+44.00
VPT EL 875.27

EXISTING GRADE

PROPOSED GRADE

875.73 875.76 875.39 875.38 876.24 876.88 877.34

VCL = 20.00
K = 16.67

STA 8+99.52
EL 873.26

VPC STA 9+17.50
VPC EL 874.11

VPI STA 9+30.00
VPI EL 874.70

VPT STA 9+42.50
VPT EL 874.80

STA 9+84.00
EL 875.49

STA 10+00.00
EL 875.81

4.72%

0.80%

2.00%

2.00%

PROPOSED GRADE @ REFERENCE LINE

EXISTING GROUND @ REFERENCE LINE

VPC STA 9+44.00
VPC EL 874.81

VPI STA 9+54.00
VPI EL 874.89

VPT STA 9+64.00
VPT EL 875.09

VCL = 25.00
K = 6.38

EXISTING GRADE

PROPOSED GRADE

868.53 870.74 873.28 873.28 874.85 874.87

885 880 875 870 865 860 855 850

9 10 11 11 8 9 10 10

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE - SIDEROAD INTERSECTIONS	SHEET 300	E

5

5

SLOPE INTERCEPT
WATER
(MITW UTILITIES)
TELEPHONE
(FRONTIER COMMUNICATIONS)
SANITARY
(MITW UTILITIES)

STH 47

CHIEF CARRON RD

PI: 10+15.31E
PI: 10+22.80
PI: 10+30.26E
PI: 10+00.00E

OVERHEAD ELECTRIC
(WISCONSIN POWER AND
LIGHT COMPANY)

END CONSTRUCTION
STA 10+69.59E
MATCH EXISTING
SAWCUT REQUIRED

SLOPE
INTERCEPT

ASPHALT

GRAVEL

SLOPE INTERCEPT
WATER
(MITW UTILITIES)

STH 47

PI: 10+47.86F
PI: 10+81.11
PI: 11+13.97F
PI: 11+38.00F
PI: 10+00.00F

WOLF CT

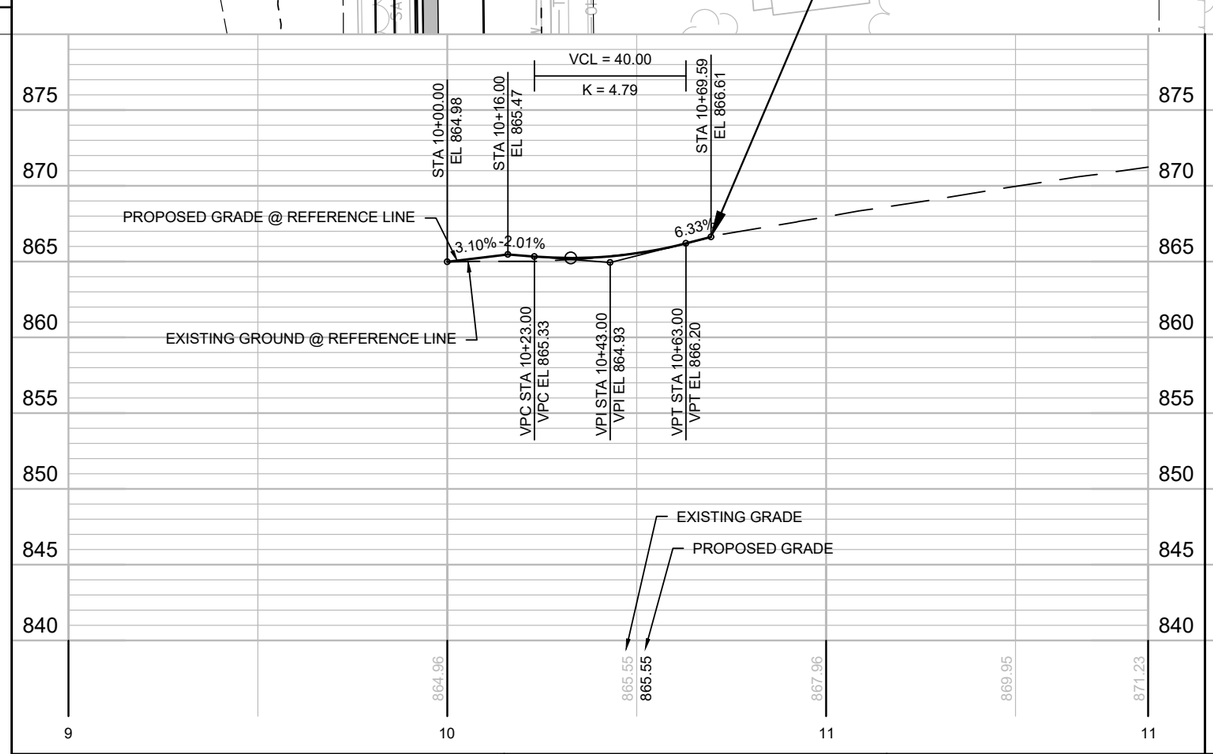
OVERHEAD ELECTRIC
(WISCONSIN POWER AND
LIGHT COMPANY)

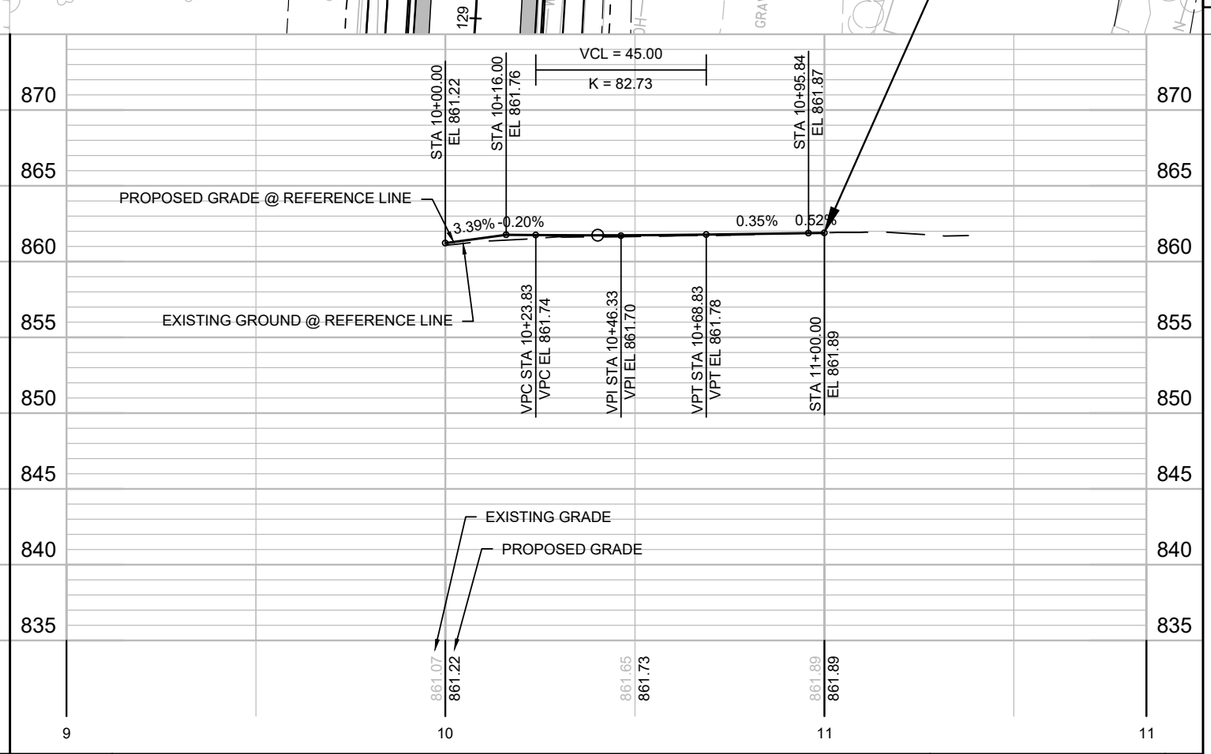
TELEPHONE
(FRONTIER
COMMUNICATIONS)

SLOPE
INTERCEPT

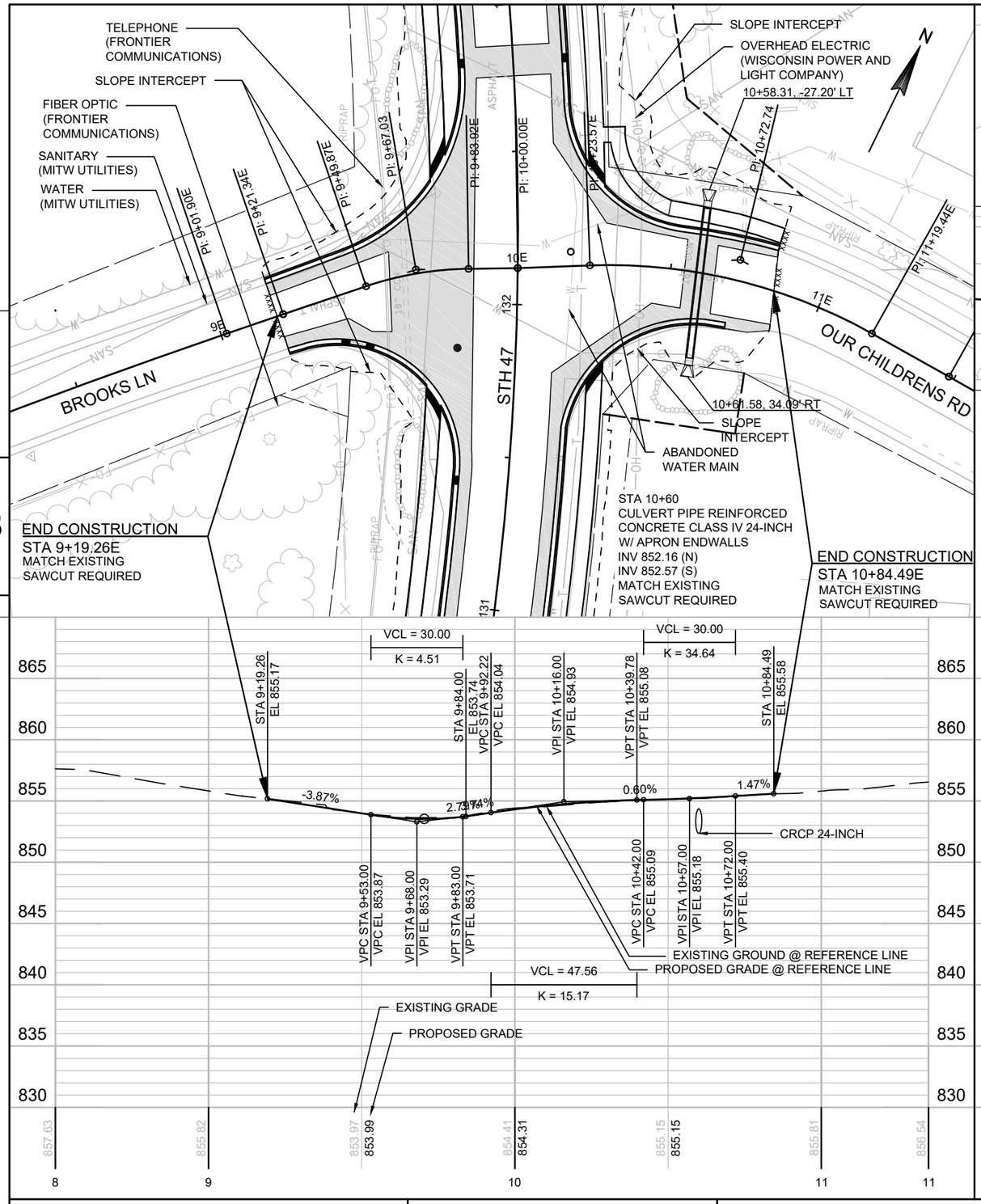
END CONSTRUCTION
STA 10+95.84F
MATCH EXISTING
SAWCUT REQUIRED

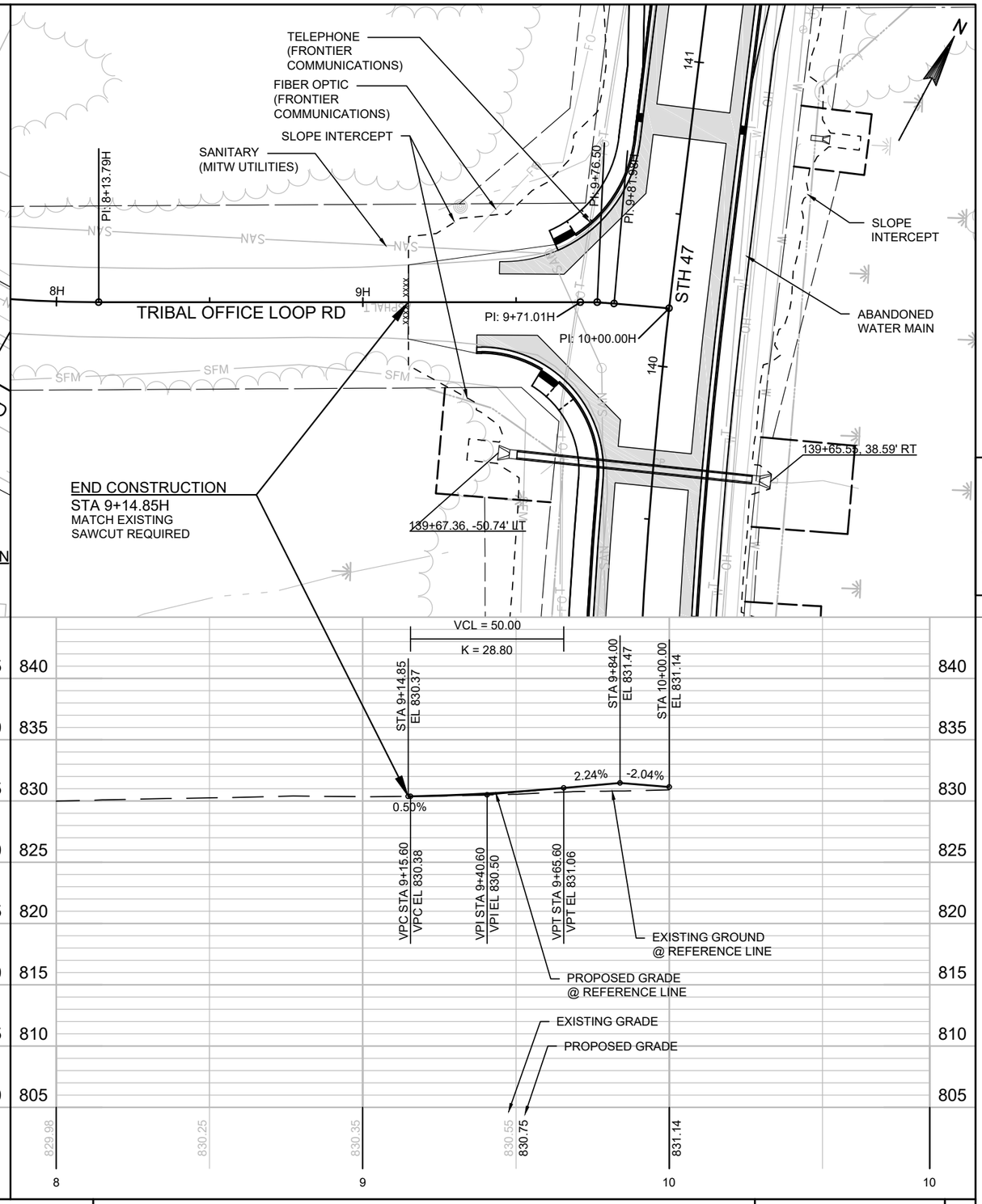
GRAVEL



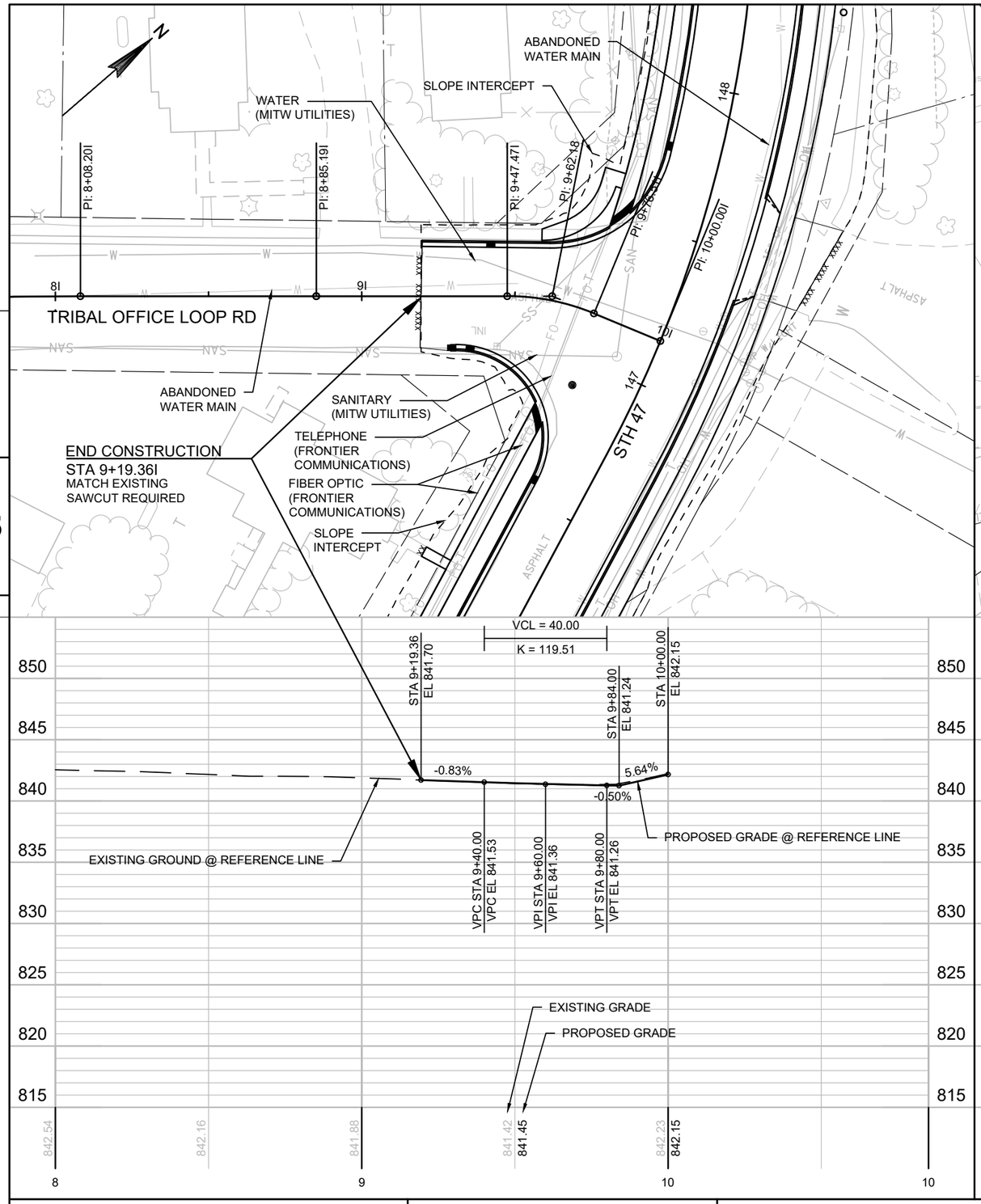


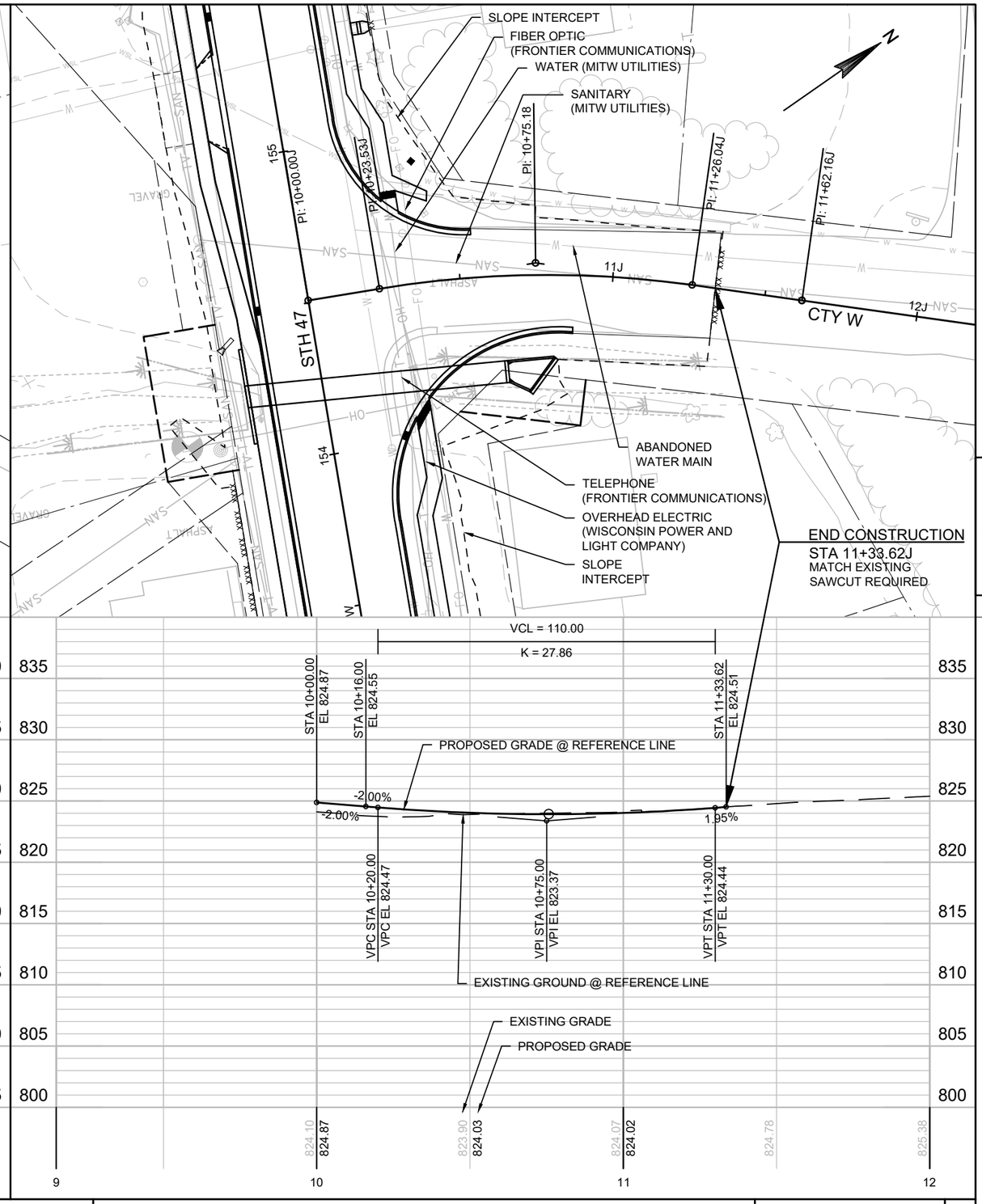
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE - SIDEROAD INTERSECTIONS	SHEET 301	E



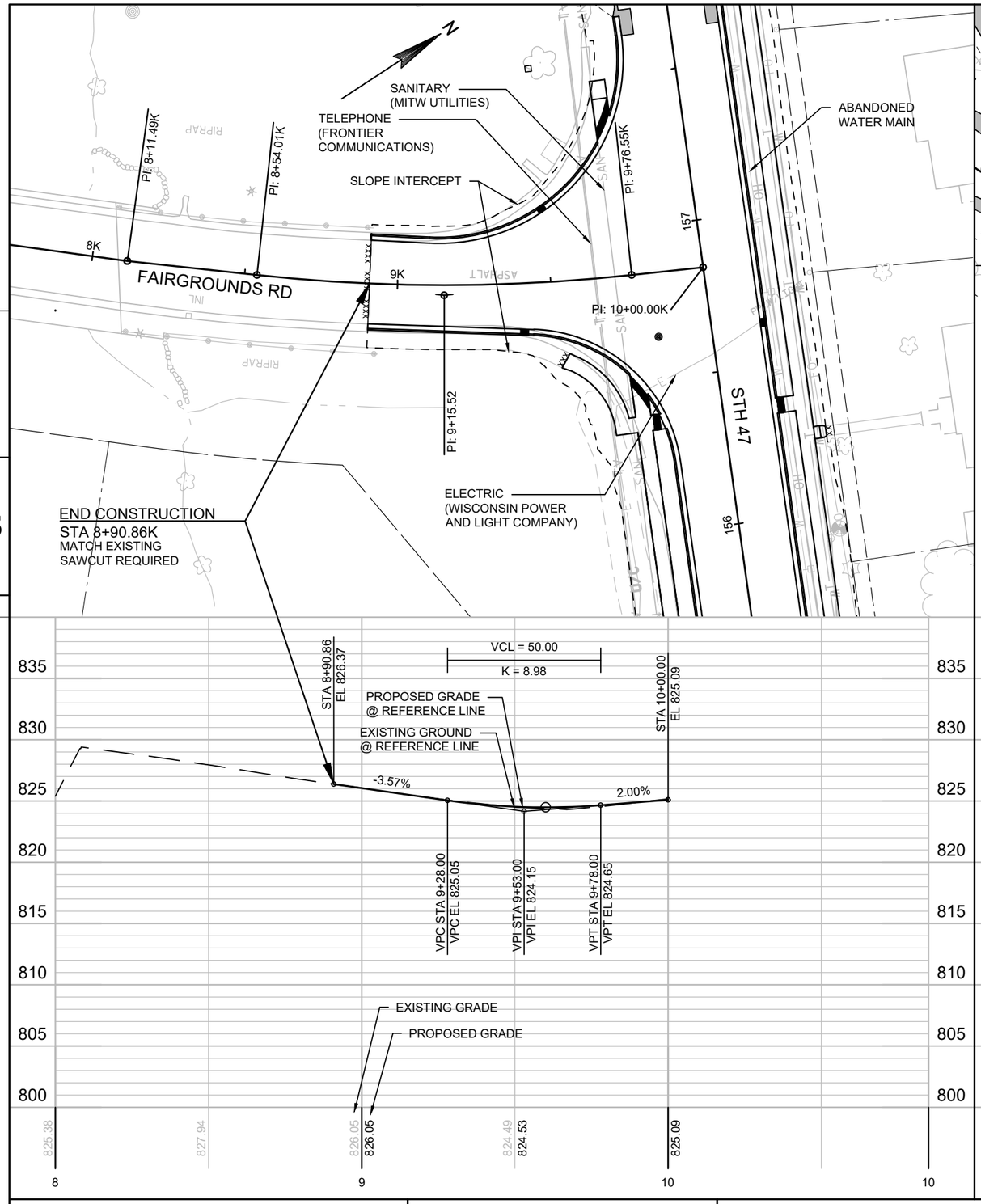


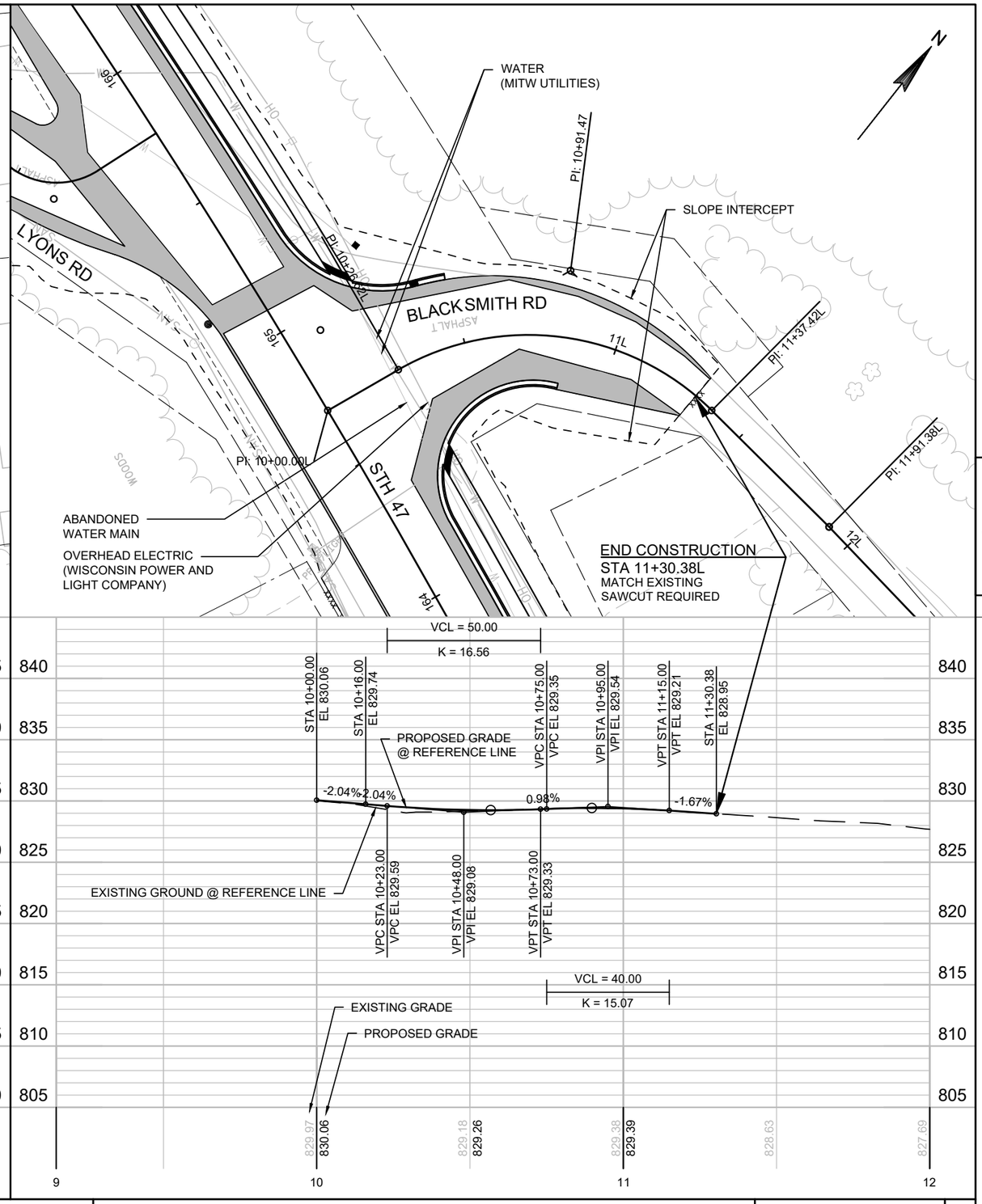
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE - SIDEROAD INTERSECTIONS	SHEET 302 E



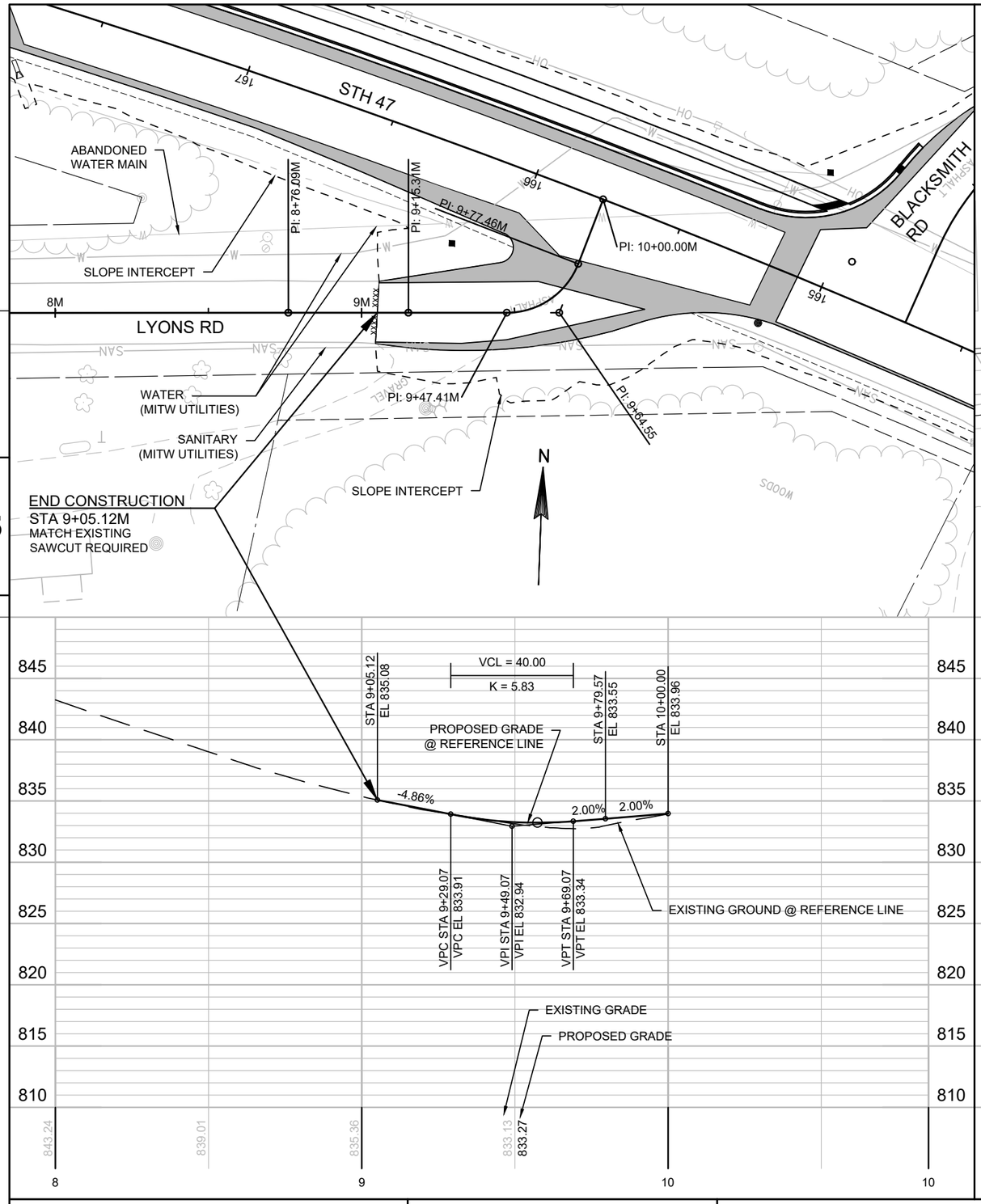


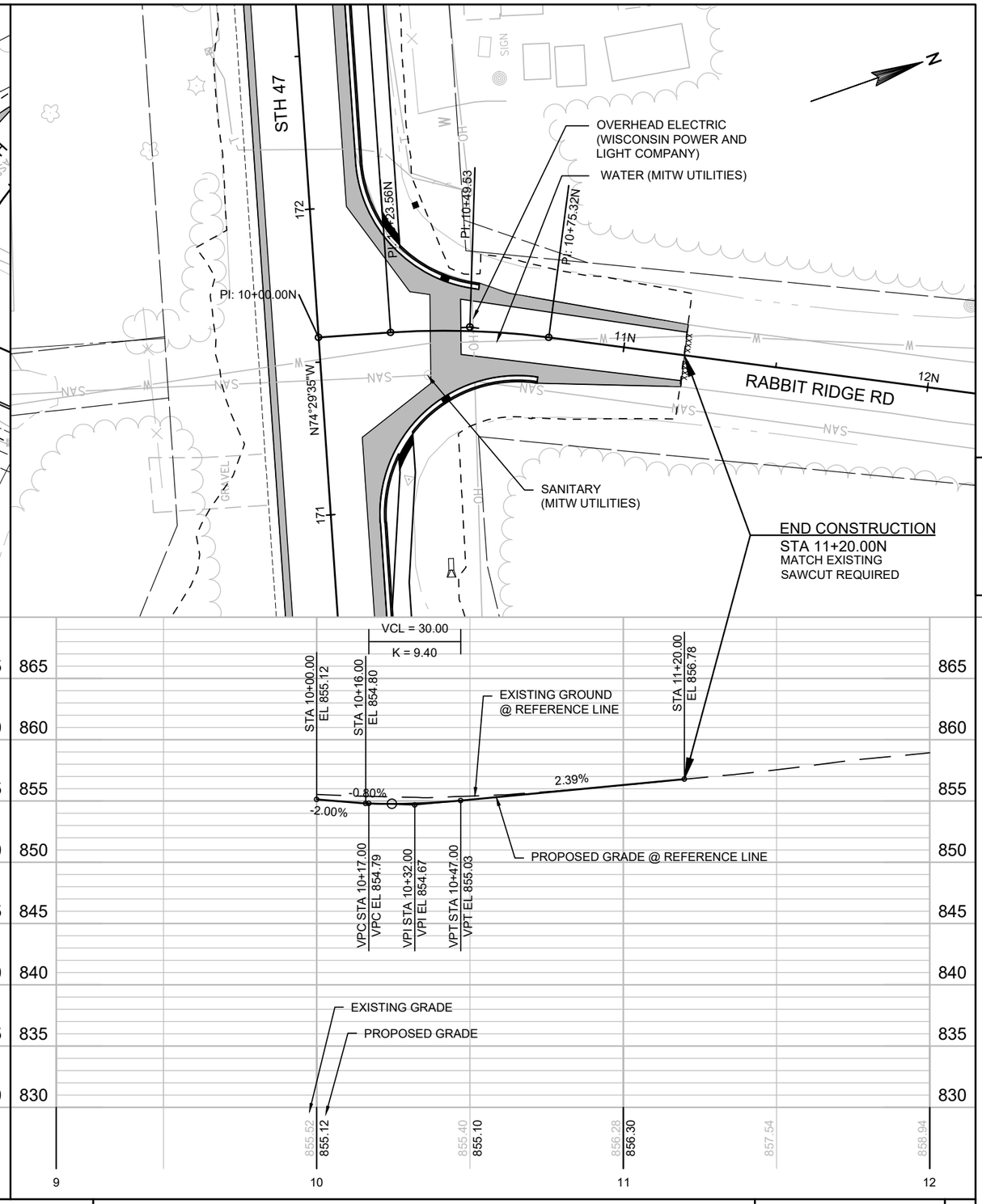
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE - SIDEROAD INTERSECTIONS	SHEET 303	E





PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE - SIDEROAD INTERSECTIONS	SHEET 304 E





PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE - SIDEROAD INTERSECTIONS	SHEET 305 E

TELEPHONE
(FRONTIER COMMUNICATIONS)

WATER
(MITW UTILITIES)

SANITARY
(MITW UTILITIES)

SLOPE INTERCEPT

PI: 9+06.88O

PI: 9+46.79O

PI: 9+64.21

PI: 9+77.22O

PI: 10+00.00O

LYONS RD

STH 47

END CONSTRUCTION
STA 8+69.92O
MATCH EXISTING
SAWCUT REQUIRED

N74°29'35"W

N

5

SLOPE
INTERCEPT

PI: 8+53.82P

PI: 9+22.09P

PI: 10+00.00P

PI: 8+92.93

WOLF RIVER DR

STH 47

END CONSTRUCTION
STA 9+22.00P
MATCH EXISTING
SAWCUT REQUIRED

SLOPE
INTERCEPT

N

5

VCL = 50.00
K = 89.64

STA 8+69.92
EL 867.69

STA 9+78.74
EL 873.90

STA 10+00.00
EL 874.43

PROPOSED GRADE
@ REFERENCE LINE

5.44%

6.00%

2.50%

EXISTING GROUND
@ REFERENCE LINE

VPC STA 9+01.03
VPC EL 869.38

VPI STA 9+26.03
VPI EL 870.74

VPT STA 9+51.03
VPT EL 872.24

EXISTING GRADE

PROPOSED GRADE

865.71 867.07 868.89 869.32 871.59 872.18 874.46 874.43

STA 9+22.00
EL 869.79

STA 9+77.50
EL 871.53

STA 10+00.00
EL 871.98

3.15%

2.00%

PROPOSED GRADE
@ REFERENCE LINE

EXISTING GROUND
@ REFERENCE LINE

EXISTING GRADE

PROPOSED GRADE

865.30 867.77 869.32 870.52 870.67

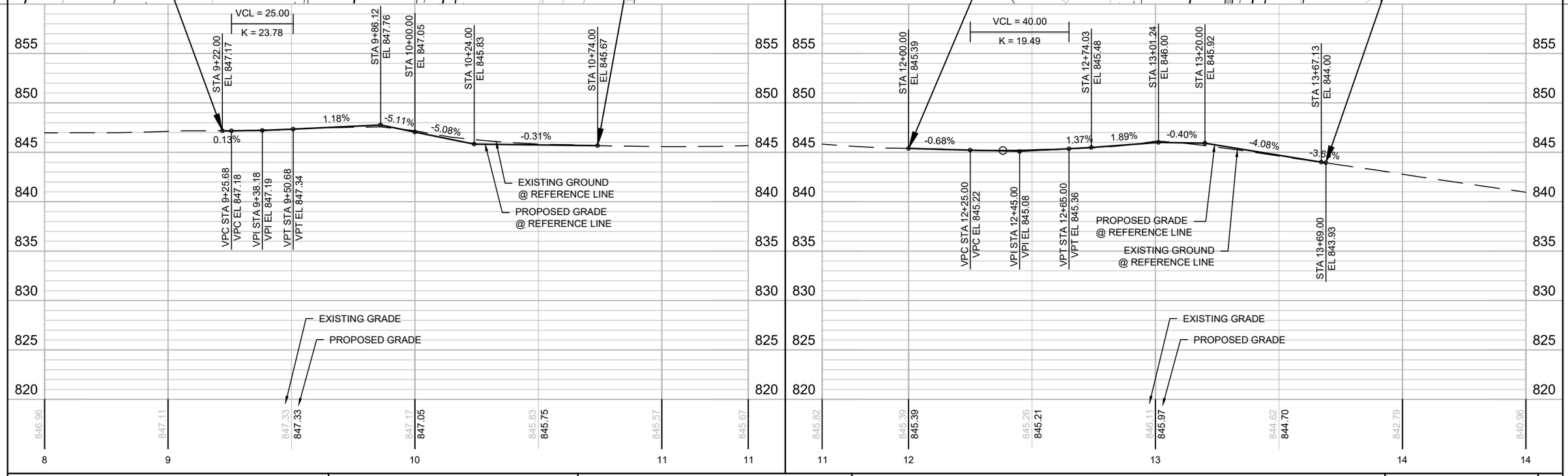
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE - SIDEROAD INTERSECTIONS	SHEET 306 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0501_PP.DWG PLOT DATE : 1/9/2019 11:51 AM PLOT BY : DOLAN, ISAAC PLOT NAME : 050133_PP_SR

WISDOT/CADDS SHEET 40

5

PI: 9+18.48
PI: 9+78.15Q
PI: 10+14.59Q
PI: 10+16.48Q
PI: 10+33.18Q
PI: 9+75.03Q
PI: 10+24.85
COURTHOUSE LN
STH 47
STH 55
CTH VV
OSHKOSH RD
SLOPE INTERCEPT
FIBER OPTIC (FRONTIER COMMUNICATIONS)
OVERHEAD ELECTRIC (WISCONSIN POWER AND LIGHT COMPANY)
SIGN
RIPRAP
36" CP
END CONSTRUCTION
STA 9+22.00Q
MATCH EXISTING
SAWCUT REQUIRED
END CONSTRUCTION
STA 10+74.00Q
MATCH EXISTING
SAWCUT REQUIRED
PI: 11+56.65R
PI: 12+76.81R
PI: 13+19.69R
PI: 13+24.25R
PI: 13+78.39R
PI: 14+20.24R
PI: 221+81.04
PI: 13+51.34
END CONSTRUCTION
STA 10+00.00R
MATCH EXISTING
SAWCUT REQUIRED
END CONSTRUCTION
STA 13+69.00R
MATCH EXISTING
SAWCUT REQUIRED



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE - SIDEROAD INTERSECTIONS	SHEET 307	E

WOLF RIVER DR

SLOPE INTERCEPT

TLE

HIGHWAY EASEMENT

PLE

200+36.00, -61.07' LT

ELECTRIC
(WISCONSIN POWER AND
LIGHT COMPANY)

STH 47

ASPHALT

CONCRETE

MATCHLINE STA. 204+75

TELEVISION
(CHARTER COMMUNICATIONS)

200+37.50, 67.40' RT

HIGHWAY EASEMENT

TLE

OVERHEAD ELECTRIC
(WISCONSIN POWER AND
LIGHT COMPANY)

PI: 199+73.65

PI: 203+26.85

PI: 203+36.91

PI: 203+46.96

STA 199+71.47
SIDEWALK

N

5

5

VCL = 100.00

K = 39.07

PROPOSED GRADE @ REFERENCE LINE

EXISTING GROUND @ REFERENCE LINE

EXISTING GRADE

PROPOSED GRADE

-5.00%

-2.44%

-2.40%

-3.08%

-2.81%

-2.43%

STA 199+73.65
EL 869.89

VPC STA 200+06.00
VPC EL 868.27

VPI STA 200+56.00
VPI EL 865.77

VPT STA 201+06.00
VPT EL 864.55

STA 202+02.18
EL 862.21

STA 203+02.18
EL 859.81

STA 203+52.18
EL 858.27

STA 204+02.18
EL 856.87

STA 204+52.18
EL 855.65

| | | |

HIGHWAY EASEMENT

SLOPE INTERCEPT

COURTHOUSE LN

N

PT: 208+62.42

STH 47

MATCHLINE STA. 204+75

MATCHLINE STA. 210+50

STH 55

OVERHEAD ELECTRIC
(WISCONSIN POWER AND
LIGHT COMPANY)

18" CP

RIPRAP

HIGHWAY EASEMENT

5

5

STA 205+79.56
EL 852.60

STA 206+58.94
EL 852.02

STA 206+72.79
EL 851.80

STA 207+52.18
EL 848.60

STA 208+52.18
EL 846.77

STA 209+60.20
EL 845.11

STA 209+99.53
EL 846.10

STA 210+10.53
EL 845.78

STA 210+35.85
EL 846.05

STA 210+04.53
EL 846.20

EXISTING GROUND @ REFERENCE LINE

PROPOSED GRADE @ REFERENCE LINE

EXISTING GRADE

PROPOSED GRADE

-2.40%
-0.73%
-1.60%
-4.03%
-1.83%
-1.53%
2.50%
2.00%
-7.00%
1.08%
-0.22%

860 855 850 845 840 835 830 825

855.79 855.11 | 855.06 854.51 | 854.10 853.31 | 853.21 852.45 | 852.12 852.08 | 850.74 850.70 | 848.86 848.69 | 848.01 847.72 | 847.46 846.81 | 846.71 846.03 | 846.24 845.27 | 846.18 846.11 | 846.02 846.02

204 205 206 207 208 209 210 210 210

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE - RURAL SIDEWALK	SHEET 309	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0501_PP.DWG PLOT DATE : 1/9/2019 11:51 AM PLOT BY : DOLAN, ISAAC PLOT NAME : 050136_PP_SW

WISDOT/CADDS SHEET 40

HIGHWAY EASEMENT

COURTHOUSE LN

RIPRAP

STH 47

ASPHALT

MATCHLINE STA. 210+50

PI: 210+65.81

STH 55

SIGN

MATCHLINE STA. 216+50

RIPRAP

WOLF RIVER

WOLF

FIBER OPTIC (FRONTIER COMMUNICATIONS)

OVERHEAD ELECTRIC (WISCONSIN POWER AND LIGHT COMPANY)

SLOPE INTERCEPT

PI: 211+79.11

PI: 212+00.44

PI: 212+21.79

PI: 213+03.81

PROPOSED GRADE @ REFERENCE LINE

EXISTING GROUND @ REFERENCE LINE

EXISTING GRADE

PROPOSED GRADE

STA.210+59.08 EL 846.00

STA 210+80.83 EL 845.80

STA 211+02.81 EL 845.04

STA 211+13.81 EL 845.36

STA 211+08.81 EL 845.46

STA 211+70.16 EL 843.95

STA 211+82.40 EL 843.89

STA 212+00.44 EL 843.61

STA 212+59.03 EL 844.40

STA 213+03.81 EL 844.28

STA 214+03.61 EL 843.73

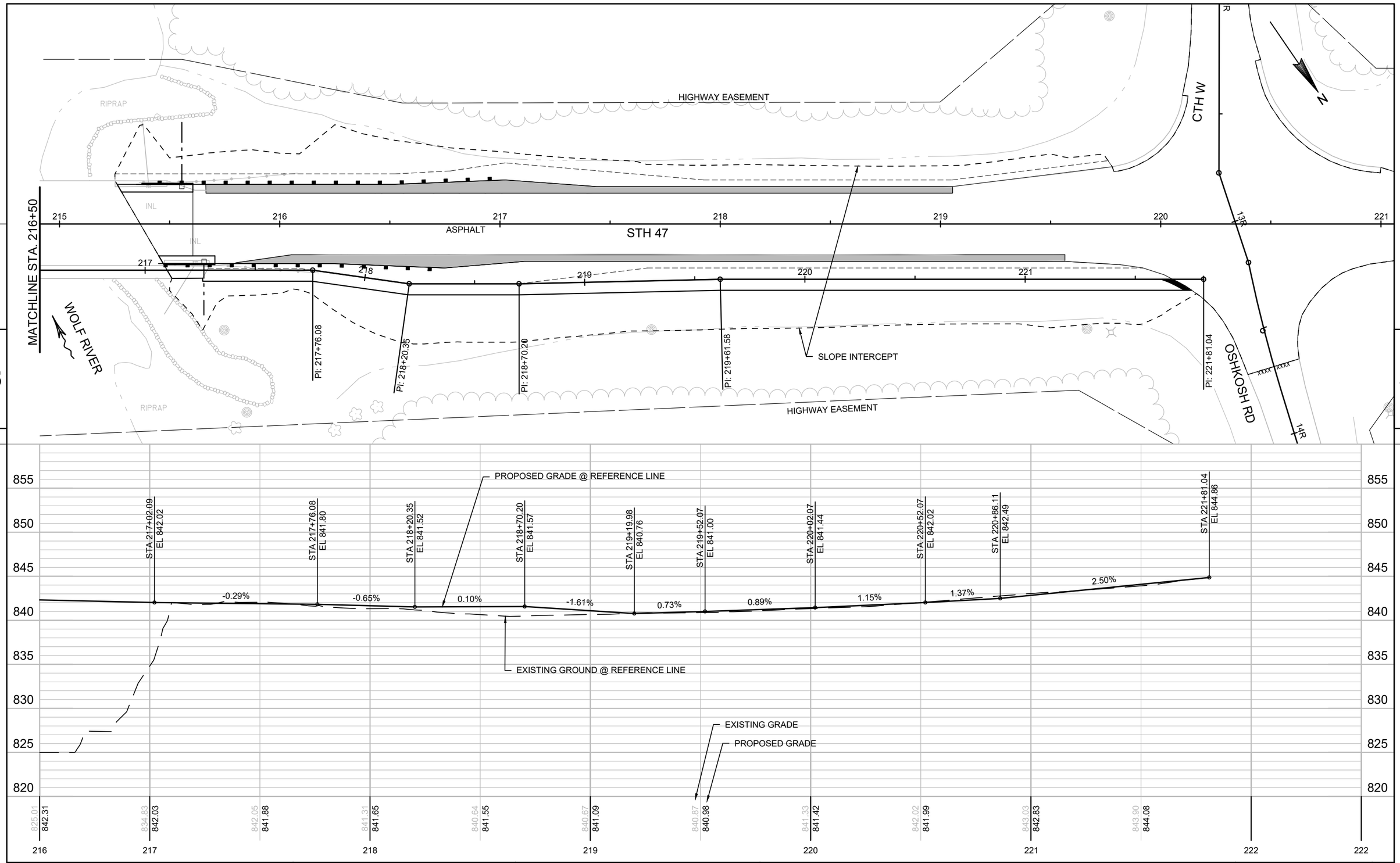
-0.93% -3.43% -7.00% -2.00% -2.50% -0.56% -1.55% 1.35% -0.25% -0.55% -0.58%

846.02 845.14 844.06 844.46 843.61 843.61 844.04 844.27 844.07 844.29 844.02 844.03 843.67 843.75 824.98 843.46 824.99 843.18 824.99 842.89 824.99 842.60 825.01 842.31

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE - RURAL SIDEWALK	SHEET 310 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0501_PP.DWG PLOT DATE : 1/9/2019 11:51 AM PLOT BY : DOLAN, ISAAC PLOT NAME : 050137_PP_SW

WISDOT/CADDS SHEET 40



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE - RURAL SIDEWALK	SHEET	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\0501_PP.DWG PLOT DATE : 1/9/2019 11:51 AM PLOT BY : DOLAN, ISAAC PLOT NAME : 050138_PP_SW

WISDOT/CADDS SHEET 40

Standard Detail Drawing List

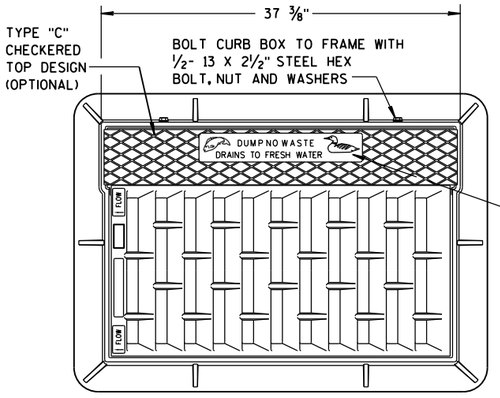
08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-02	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C06-02	INLETS 3-FT AND 4-FT DIAMETER
08C07-02	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08C08-02	INLETS MEDIAN 1 AND 2 GRATE
08D01-20A	CONCRETE CURB & GUTTER
08D01-20B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D03-07	CONCRETE SURFACE DRAINS DROP INLET TYPE AT STRUCTURES
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
08D18-02	DRIVEWAY AND SIDEWALK RAMPS TYPES X & Y
08D19-02	DRIVEWAY AND SIDEWALK RAMPS TYPE Z
08D21-01	DRIVEWAYS WITHOUT CURB & GUTTER
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
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
09B02-10	CONDUIT
09B16-01	PULL BOX NON-CONDUCTIVE
09C02-09	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C14-03	CONCRETE CONTROL CABINET BASE, TYPE L
09D01-05	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09D04-03	LIGHTING CONTROL CABINET 120/240 VOLT
09E01-15D	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)
09E01-15G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E03-06	NON-FREEWAY LIGHTING UNIT POLE WIRING
09E06-05	TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.
09G02-05A	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
09G02-05C	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
12A03-10	NAME PLATE (STRUCTURES)
13B02-09A	CONCRETE PAVEMENT APPROACH SLAB
13C19-01	HMA LONGITUDINAL JOINTS
14B07-15A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15I	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B08-02A	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02B	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02C	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02D	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02E	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B15-11A	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-11B	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-11C	STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS
14B20-11A	STEEL THRIE BEAM STRUCTURE APPROACH
14B20-11B	STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO SQUARE END PARAPETS
14B42-06A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

6

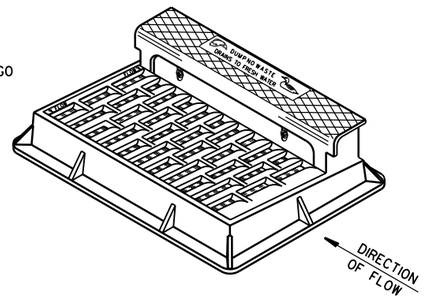
Standard Detail Drawing List

14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-05A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15B03-15A	FENCE CHAIN LINK
15B03-15B	FENCE CHAIN LINK
15C02-07A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-07B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-07C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C02-07F	ADVANCED WIDTH RESTRICTION SIGNING
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C07-15B	PAVEMENT MARKING WORDS
15C07-15C	PAVEMENT MARKING ARROWS
15C07-15E	PAVEMENT MARKING FOR BIKE LANES
15C08-19A	LONGITUDINAL MARKING (MAINLINE)
15C08-19B	PAVEMENT MARKING (TURN LANES)
15C08-19C	PAVEMENT MARKING (TURN LANES)
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-07	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-06A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C29-06A	BICYCLE LANE MARKING
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-04A	PAVEMENT MARKING (INTERSECTIONS)
15D30-06A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-06B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-06C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D33-06	TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS
15D40-01	TRAFFIC CONTROL, LANE SHIFT, MULTILANE DIVIDED OR ONE WAY ROAD
15D44-01	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES

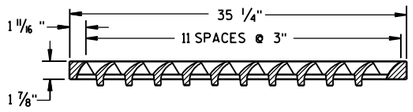
6

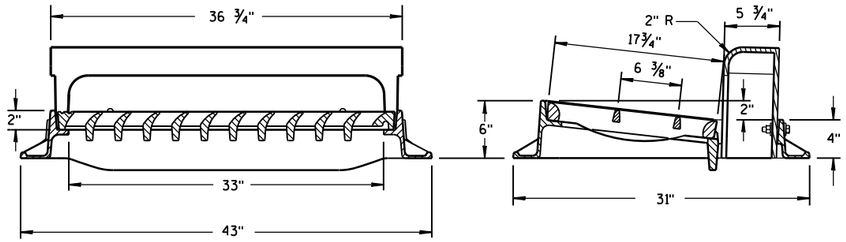


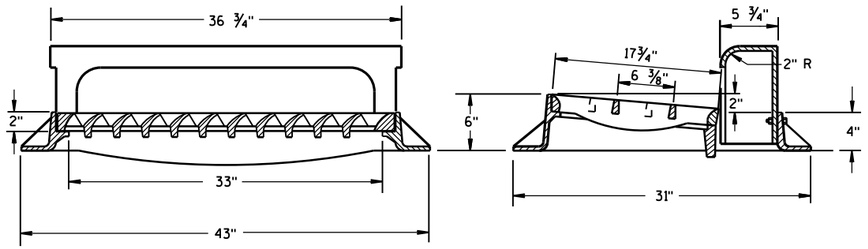
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

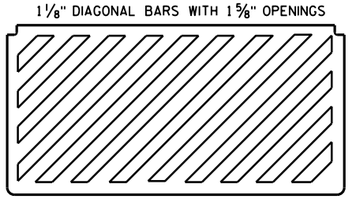






TYPE "H"

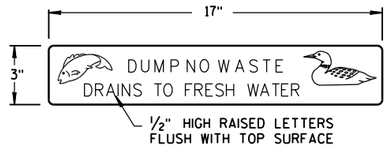
NOTE: EITHER CASTING IS ACCEPTABLE



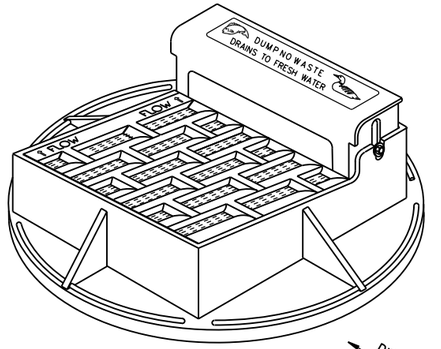
SPECIAL GRATE FOR TYPE "H" COVER

(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"

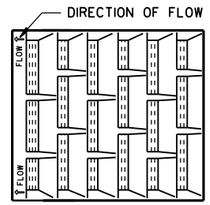
NOTE:
GRATE IS REVERSIBLE.

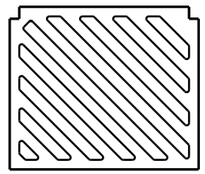
GENERAL NOTES

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.

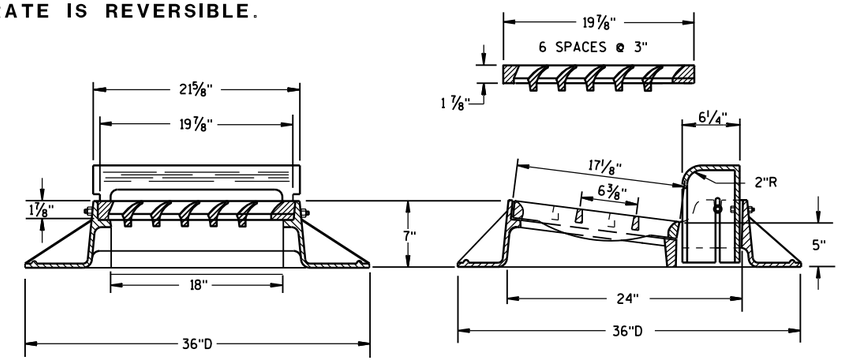




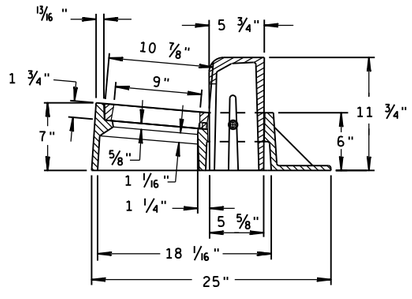
SPECIAL GRATE FOR TYPE "A" COVER

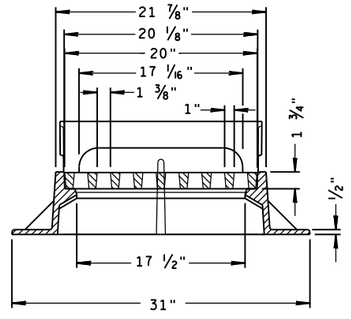
(MEASURES 19 3/4" X 17" X 1 7/8")

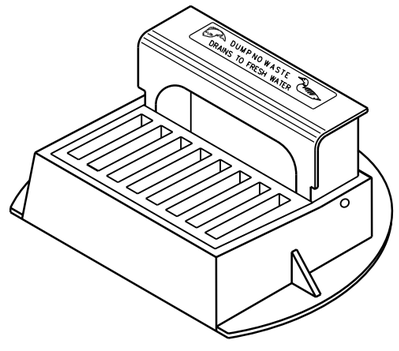
(NOTED AS TYPE A-S ON DRAINAGE TABLE)



TYPE "A"







TYPE "Z"

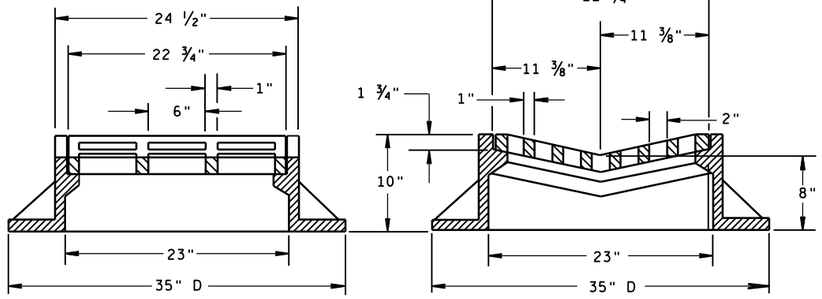
INLET COVERS
TYPE A, H, A-S, H-S & Z

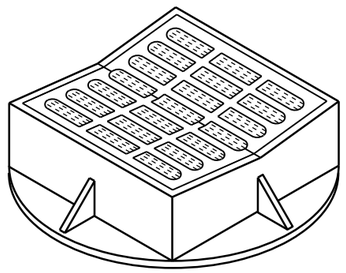
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

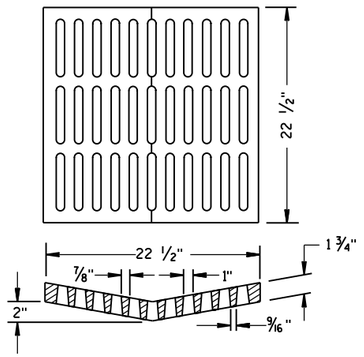
6

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





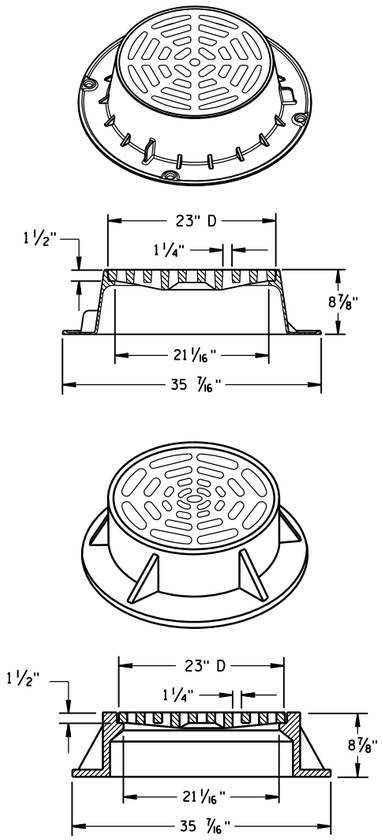
TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.

NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

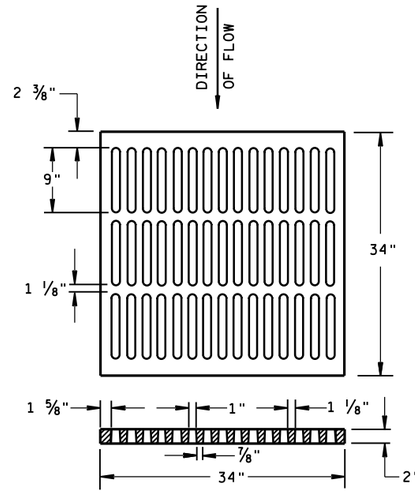
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

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

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

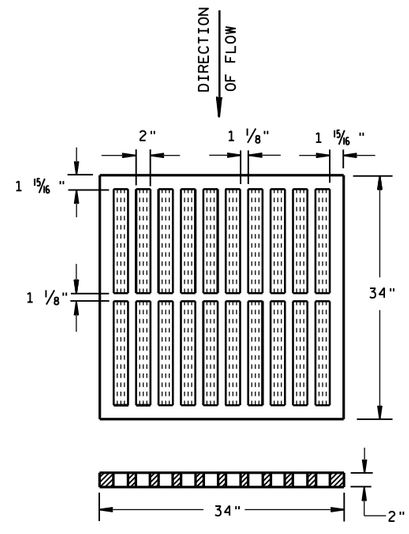
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED

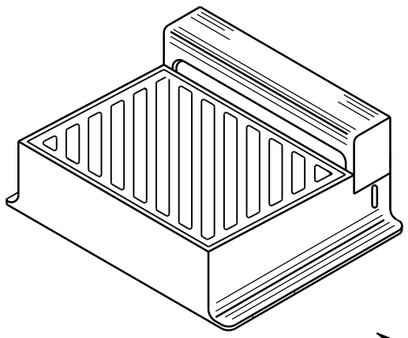
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE



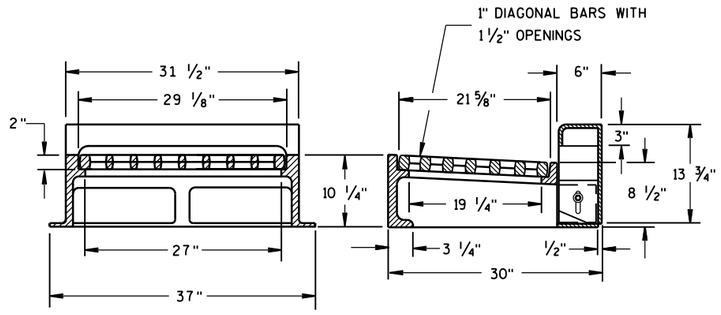
TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS

NOTED AS TYPE MS ON DRAINAGE TABLE



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



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

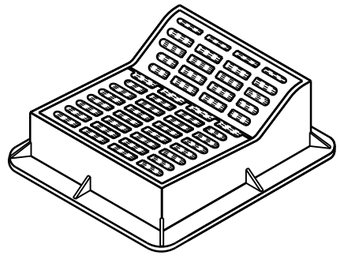
11/27/2013 — DATE

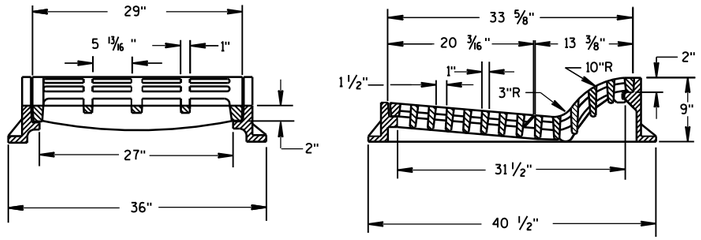
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

6

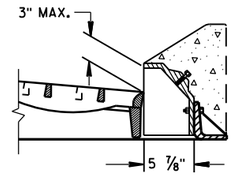
S.D.D. 8 A 5-19b





TYPE "F"

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



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

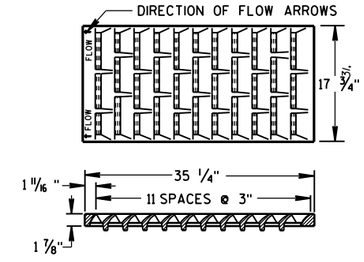
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

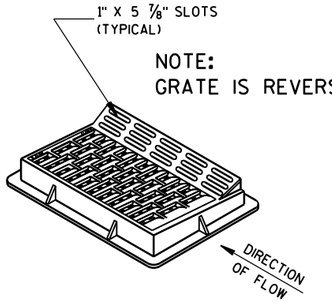
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

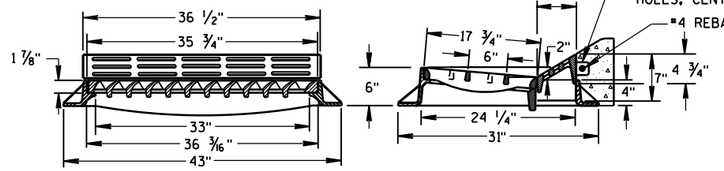
GENERAL NOTES

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

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



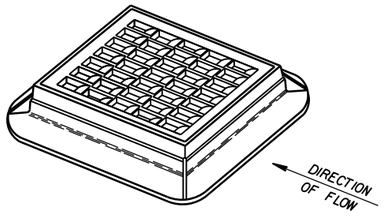


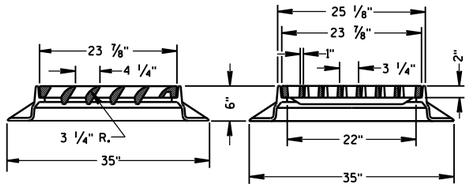


TYPE "HM"

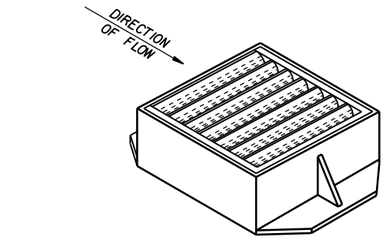
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

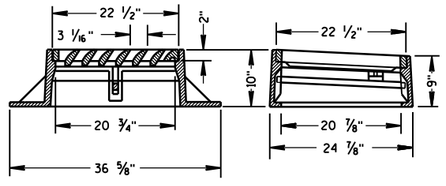
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



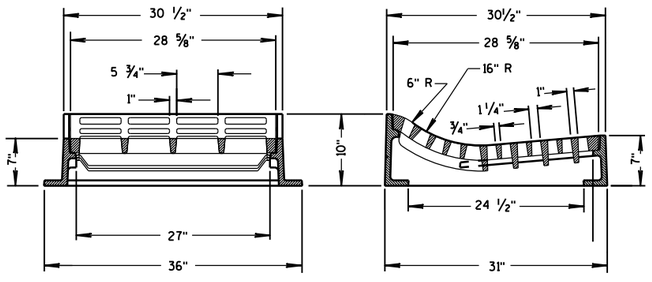


TYPE "S"



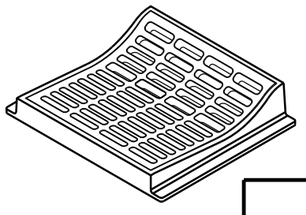


TYPE "V"



TYPE "T"

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



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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

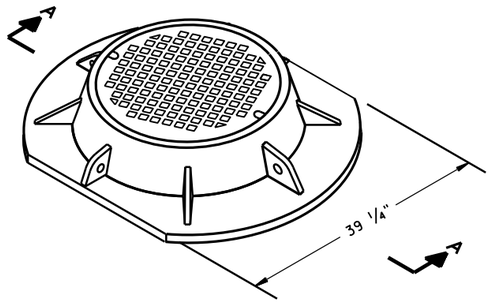
APPROVED
11/27/2013
DATE

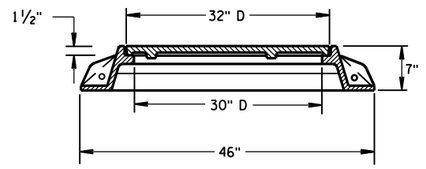
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

FHWA

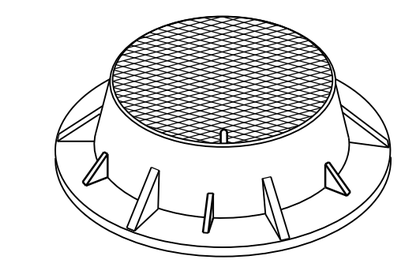
6

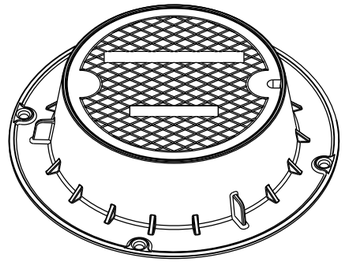
S.D.D. 8 A 5-19c

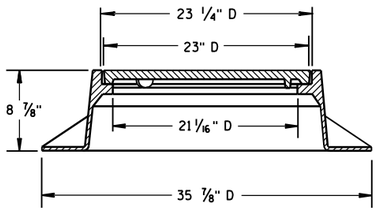


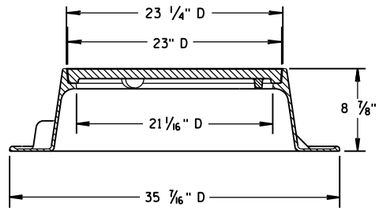


SECTION A-A
TYPE "K"









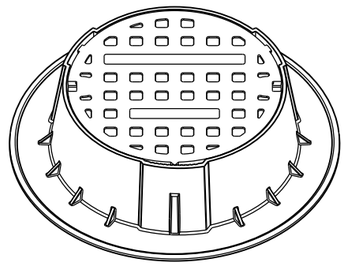
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

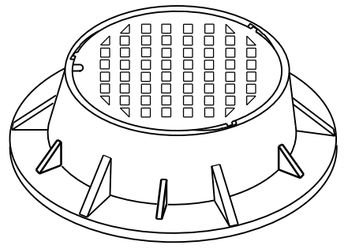
GENERAL NOTES

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.

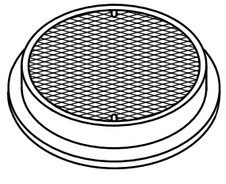
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

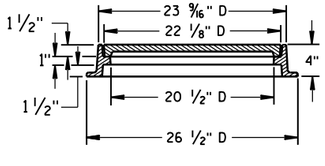
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.





TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE





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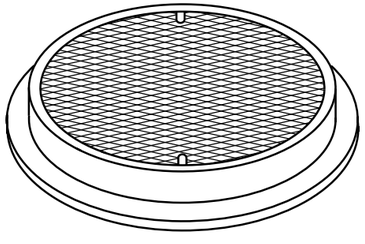

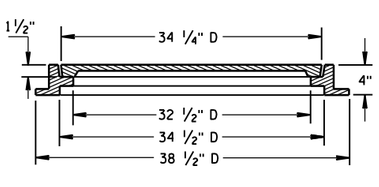

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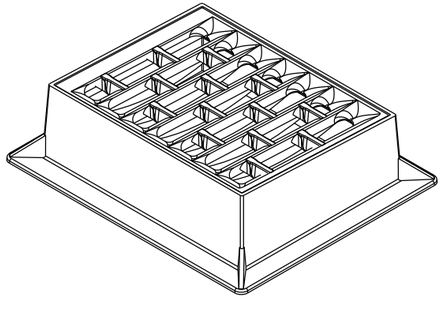
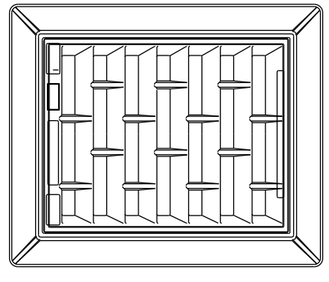
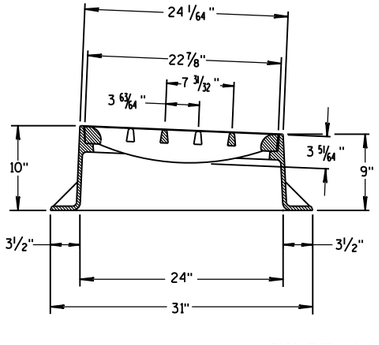
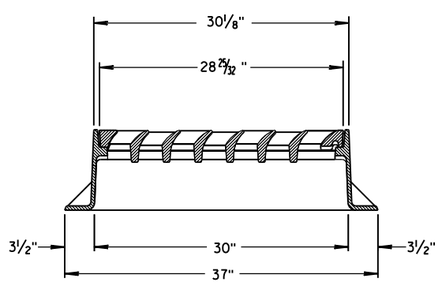








INLET COVER TYPE "BW"

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

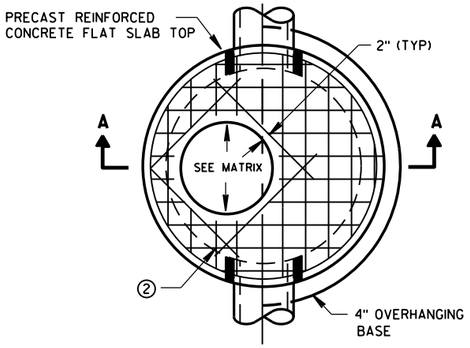
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

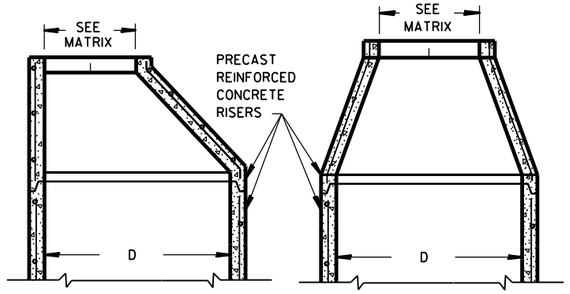
S.D.D. 8 A 5-19d

6

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

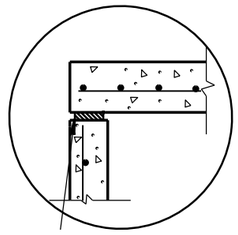


PLAN VIEW CIRCULAR OPENING

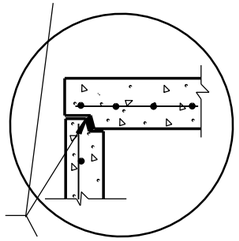


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

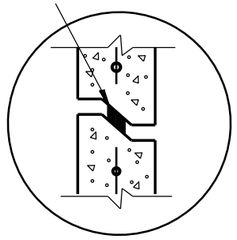


TOP WITH PLAIN END JOINT



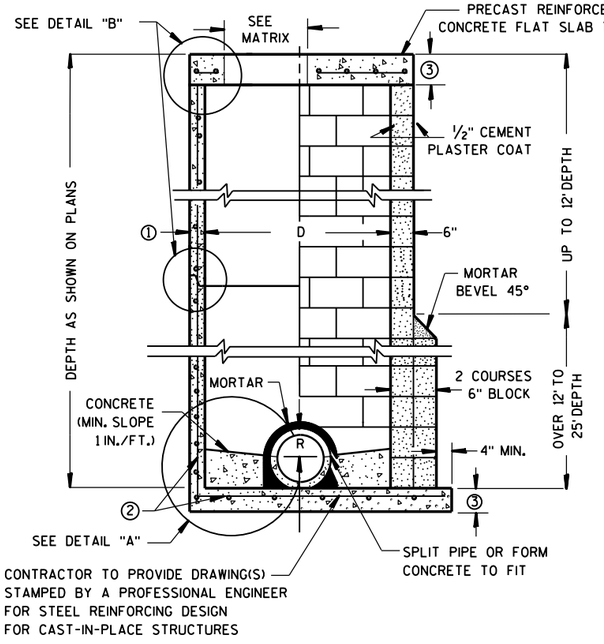
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



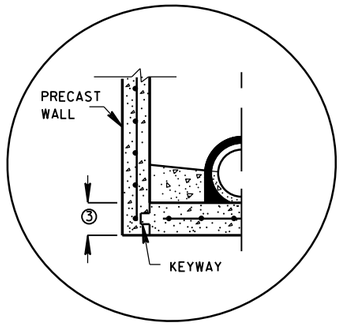
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

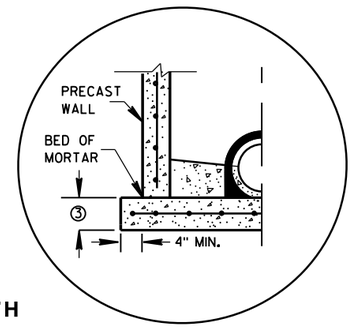


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

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

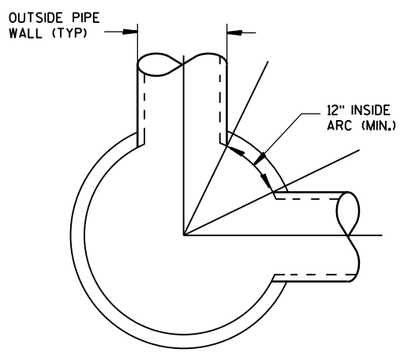


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



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 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 CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED 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" 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.

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

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

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

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, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES 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".

MANHOLE COVER OPENING MATRIX

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

PIPE MATRIX

MANHOLE 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	36
7-FT	48	36
8-FT	60	42

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

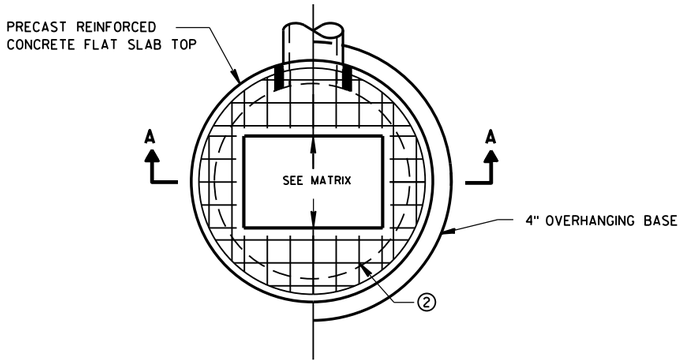
APPROVED

Sept., 2016
DATE

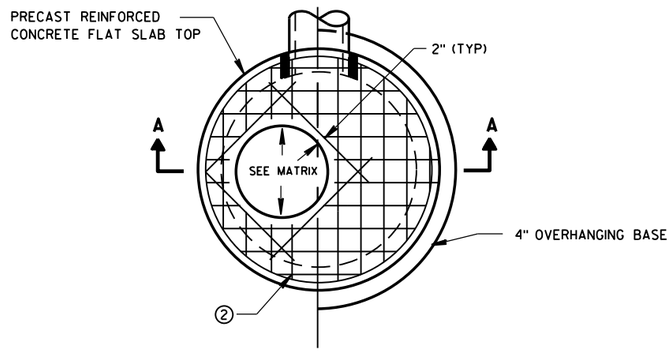
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERV

FHWA

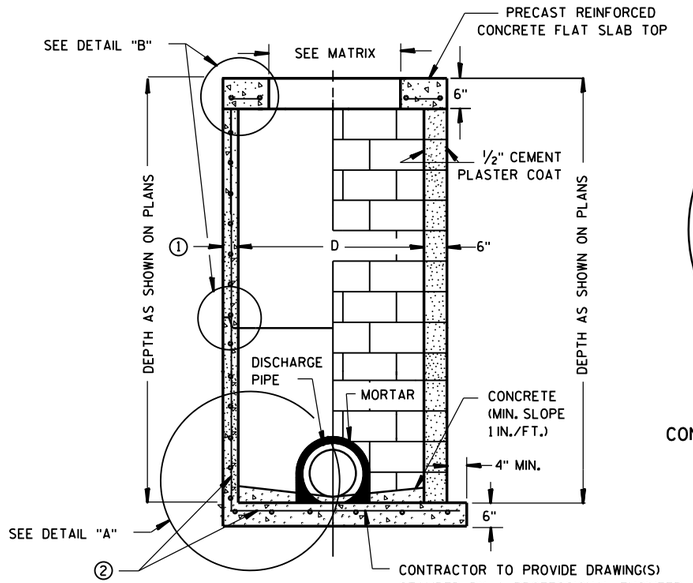
6
S.D.D. 8 B 9-2



PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

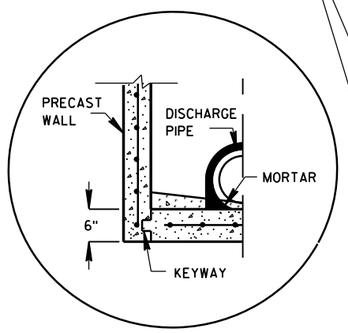


SECTION A-A

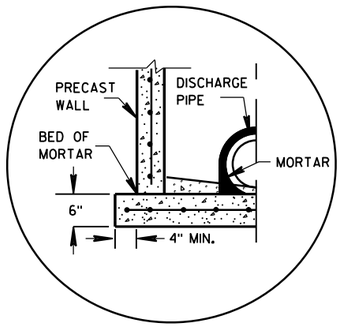
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

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

CIRCULAR INLETS W/ FLAT TOP

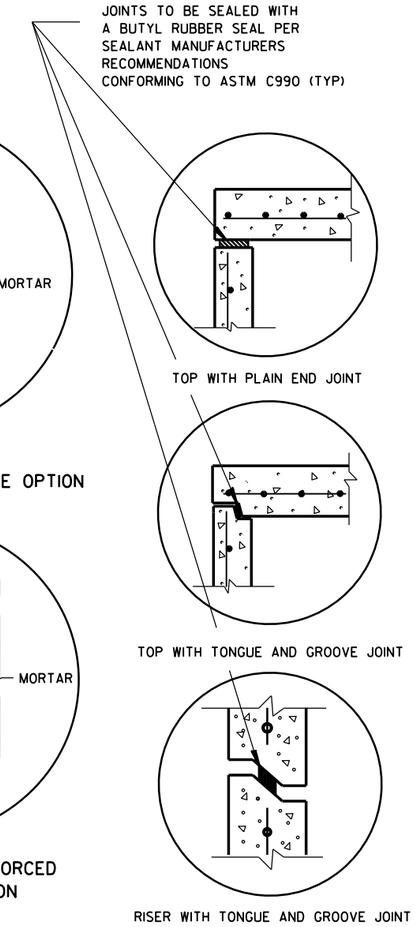


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



TOP WITH PLAIN END JOINT

TOP WITH TONGUE AND GROOVE JOINT

RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

GENERAL NOTES

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

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

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

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

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

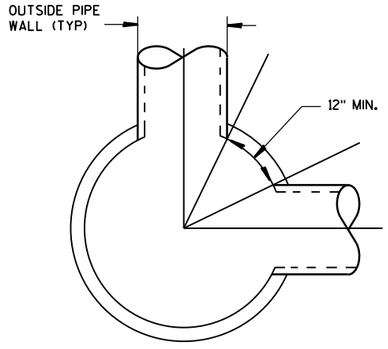
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

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

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

INLET COVER OPENING MATRIX

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



DETAIL "C"

PIPE MATRIX

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

INLETS 3-FT AND 4-FT DIAMETER

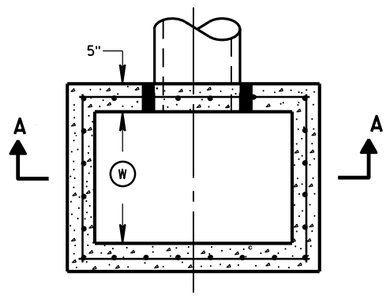
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

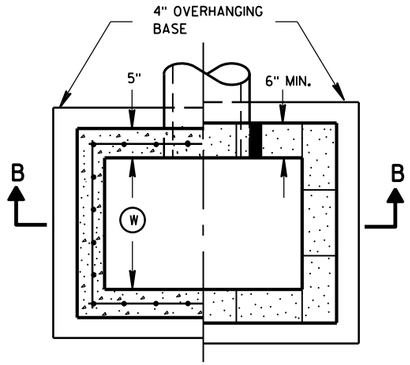
INLETS 3-FT AND 4-FT DIAMETER

6

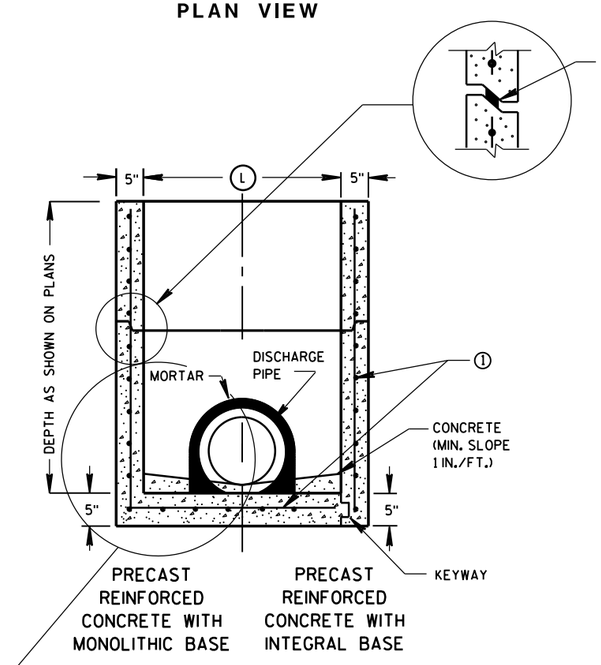
S.D.D. 8 C 6-2



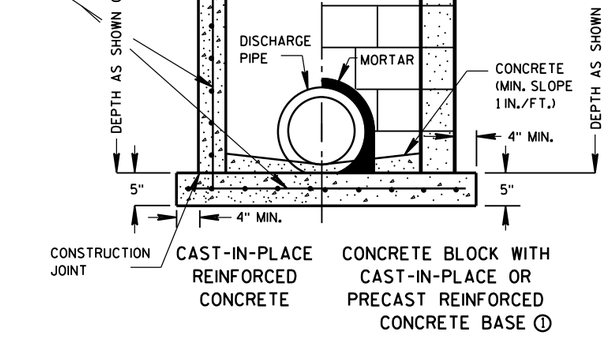
PLAN VIEW



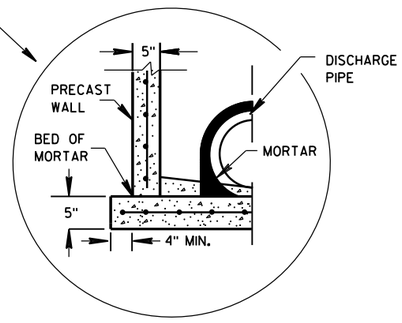
PLAN VIEW



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.

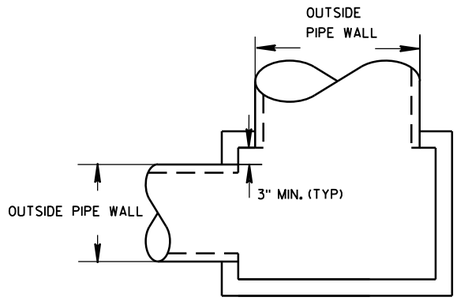
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

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

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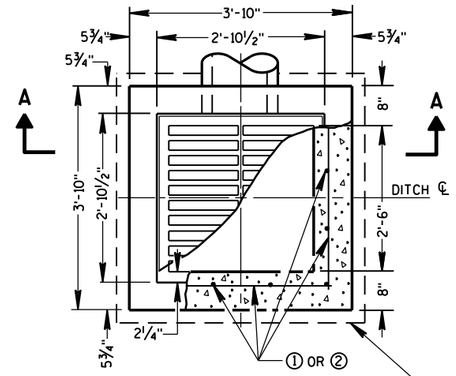
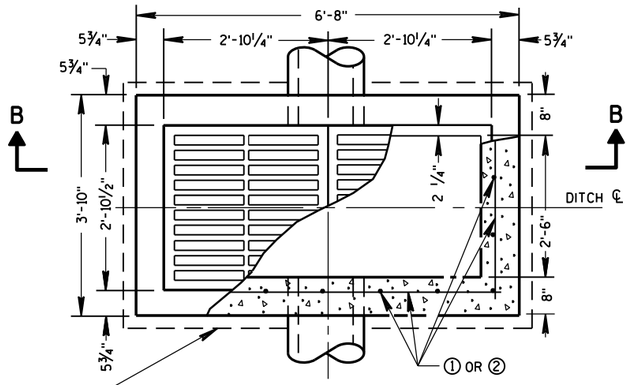
S.D.D. 8 C 7-2

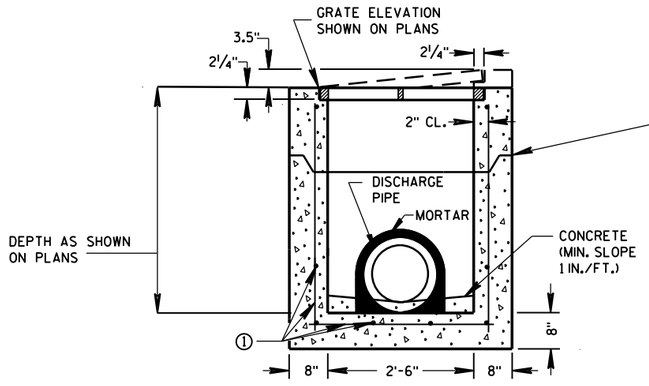


PLAN VIEW

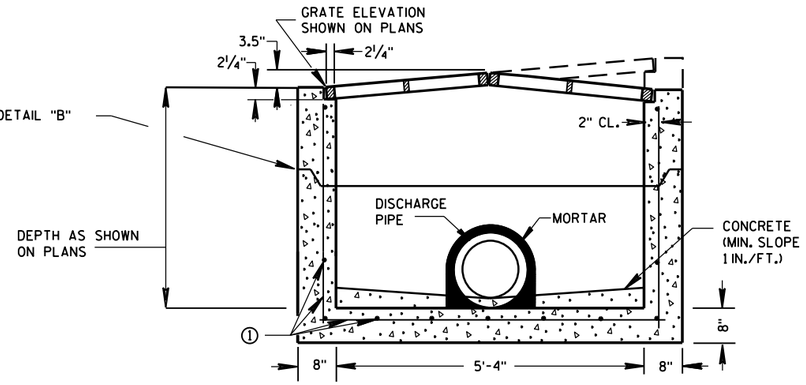


PLAN VIEW

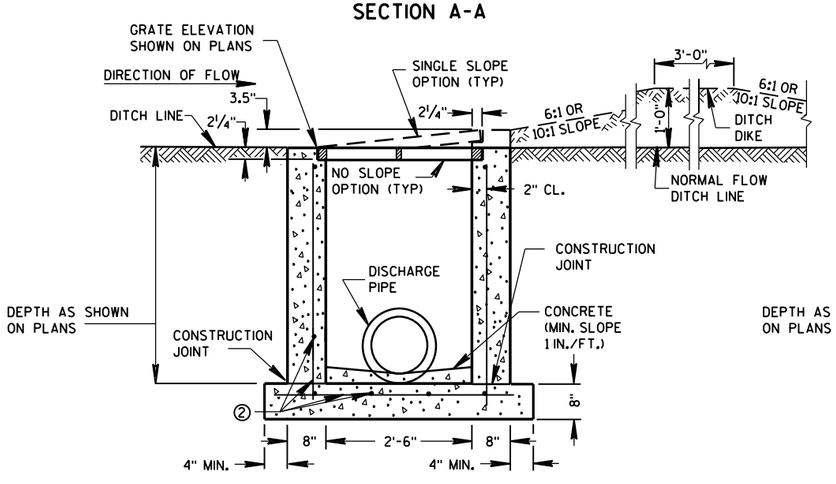
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



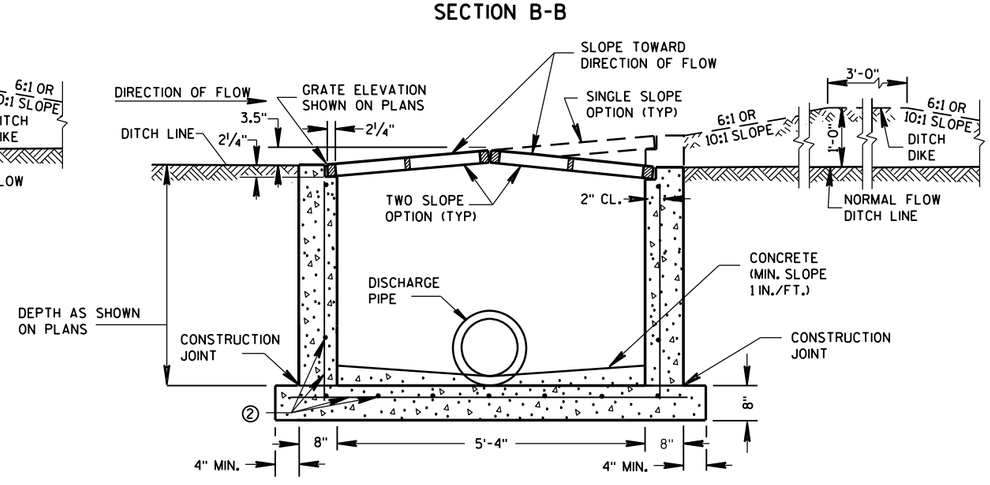
PRECAST REINFORCED CONCRETE SECTION A-A



PRECAST REINFORCED CONCRETE SECTION B-B



REINFORCED CAST-IN-PLACE CONCRETE SECTION A-A



REINFORCED CAST-IN-PLACE CONCRETE SECTION B-B

INLETS MEDIAN 1 GRATE

INLETS MEDIAN 2 GRATE

GENERAL NOTES

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

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

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

ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 1G-MS", ETC. THE FIRST NUMBER AND LETTER DESIGNATE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DESIGNATE THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

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

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

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

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

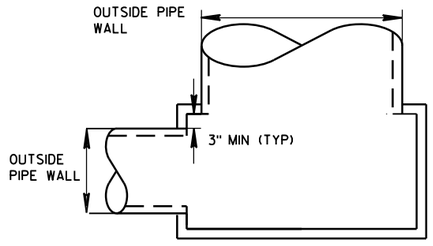
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

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

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

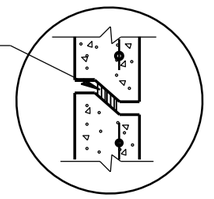
PIPE MATRIX

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



DETAIL "A"

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



DETAIL "B"

INLETS MEDIAN 1 AND 2 GRATE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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Sept., 2016
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/S/ Rodney Taylor
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FHWA

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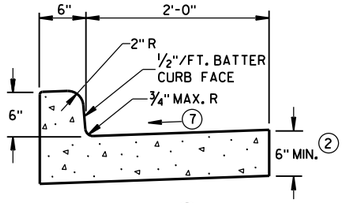
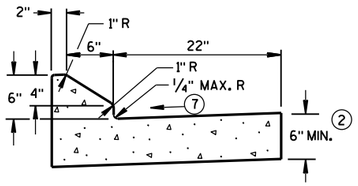
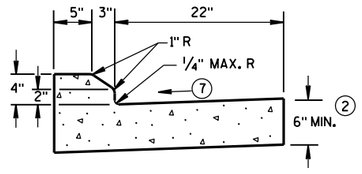
S.D.D. 8 C 8-2



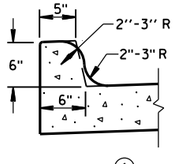
TYPES A (1) & D



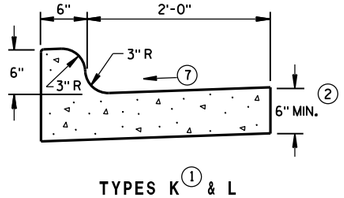
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

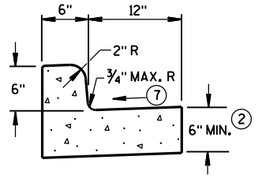


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



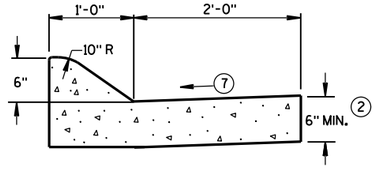
TYPES K (1) & L

CONCRETE CURB & GUTTER 30"

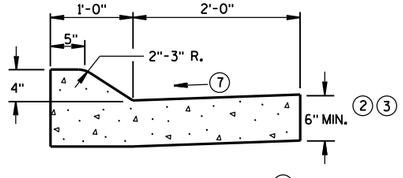


TYPES A (1) & D

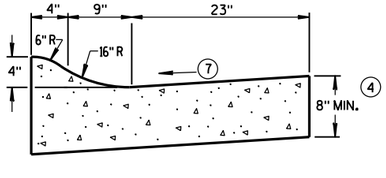
CONCRETE CURB & GUTTER 18"



6" SLOPED CURB TYPES A (1) & D

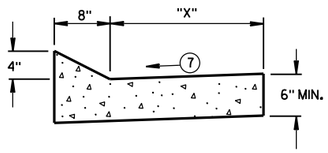


4" SLOPED CURB TYPES A (1) & D



4" SLOPED CURB TYPES R (1) & T (5)

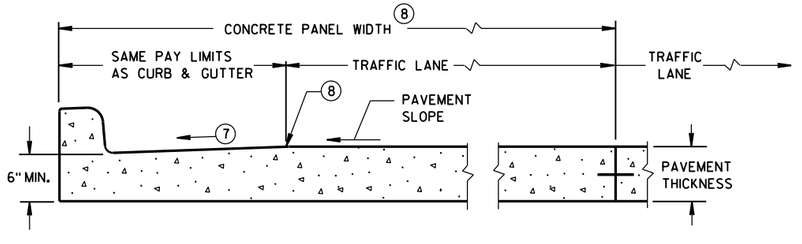
CONCRETE CURB & GUTTER 36"



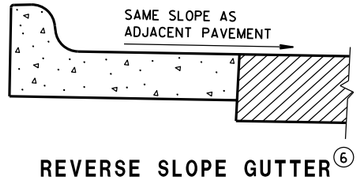
TYPES TBT & TBTT (1)

CONCRETE CURB & GUTTER

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



PARTIAL SECTION OF PAVEMENT *
WITH INTEGRAL CURB & GUTTER



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

GENERAL NOTES

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

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

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

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

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

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

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

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

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

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

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

(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.

PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

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

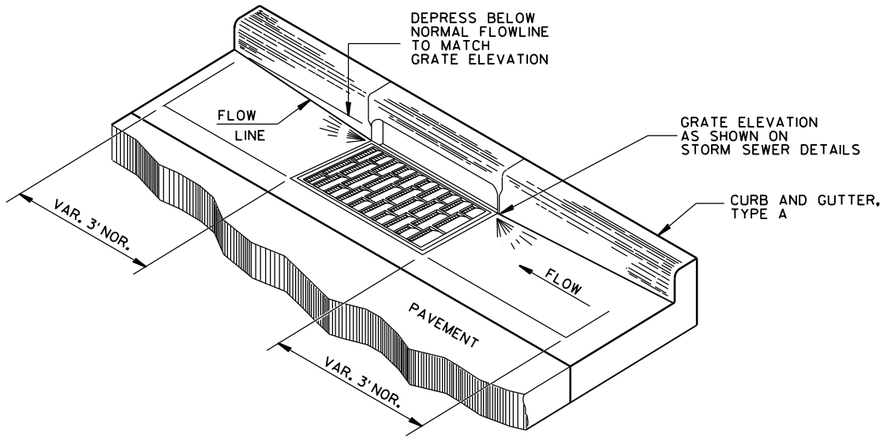
* BIKE LANE IS NOT SHOWN.

CONCRETE CURB & GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 8 D 1-20a



DETAIL OF CURB AND GUTTER AT INLETS

(TYPE H INLET COVER SHOWN)

GENERAL NOTES

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

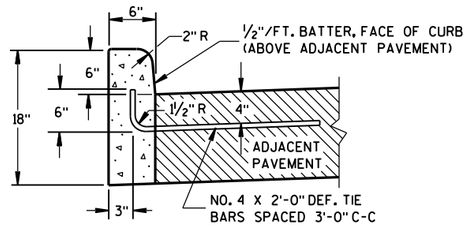
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

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

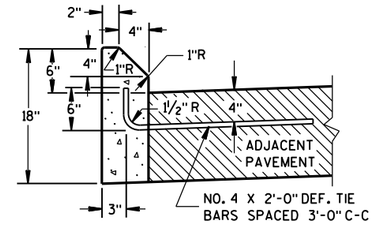
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

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

(9) REFER TO SDD 8D18 AND SDD 8D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.

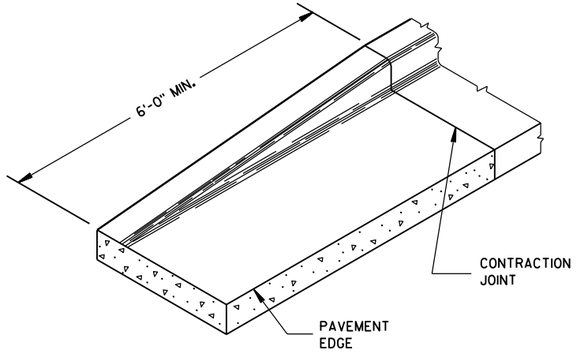


TYPES A(1) & D

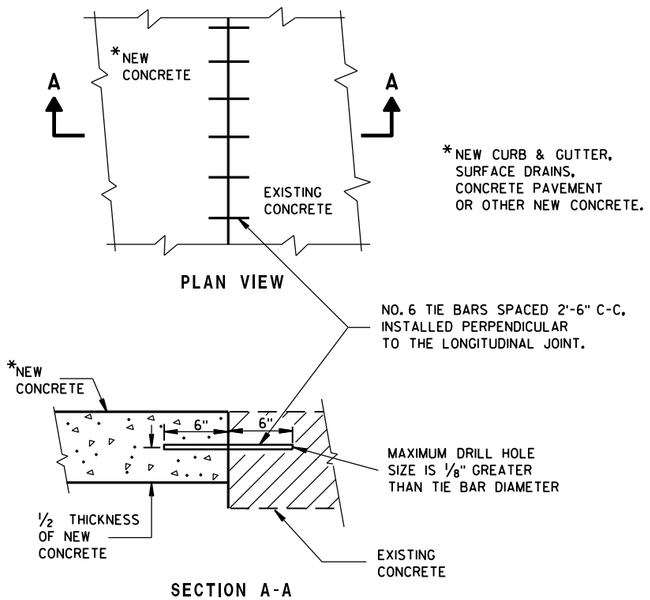


TYPES G(1) & J

CONCRETE CURB



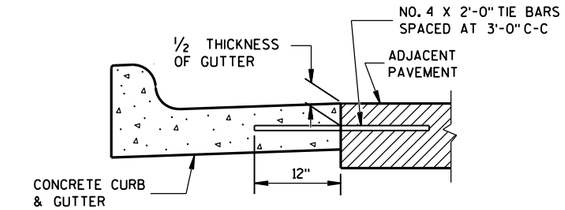
END SECTION CURB & GUTTER



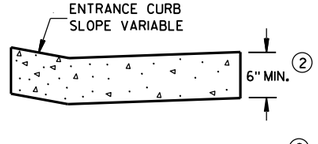
PLAN VIEW

SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT



TYPICAL TIE BAR LOCATION (1)



DRIVEWAY ENTRANCE CURB (9)

(WHEN DIRECTED BY THE ENGINEER)

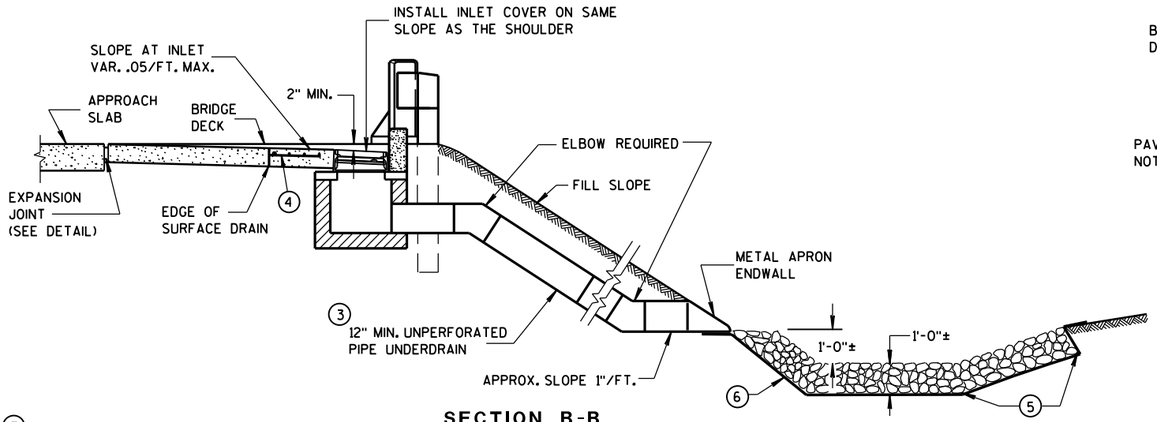
CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

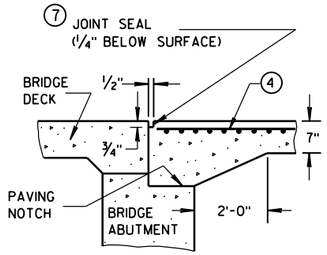
APPROVED
June, 2017 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVISOR
323 — ENT
FHWA

6

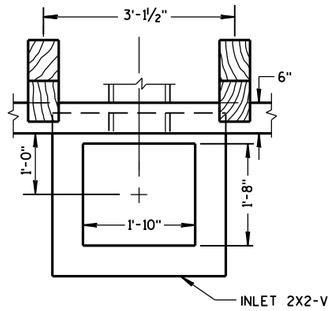
S.D.D. 8 D 1-20b



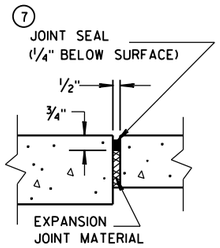
SECTION B-B



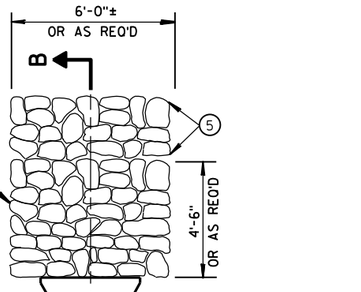
SECTION D-D

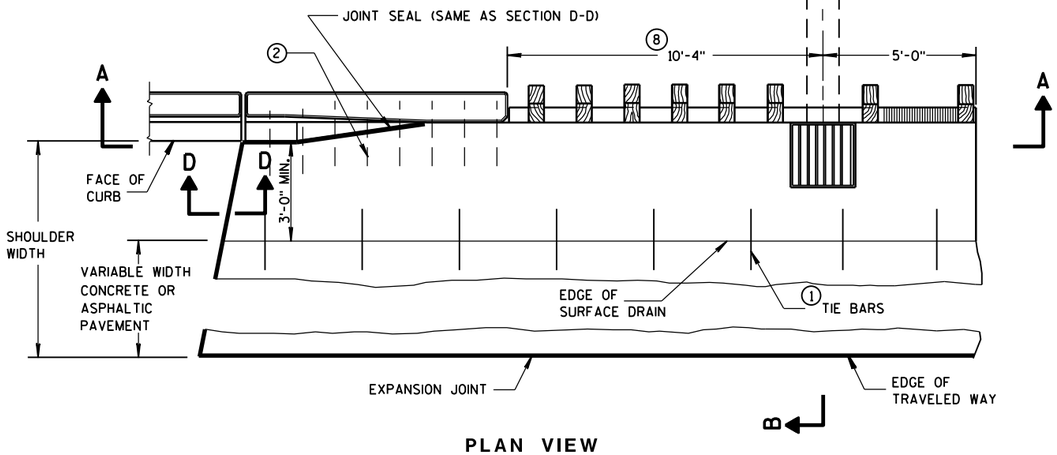


PLAN VIEW

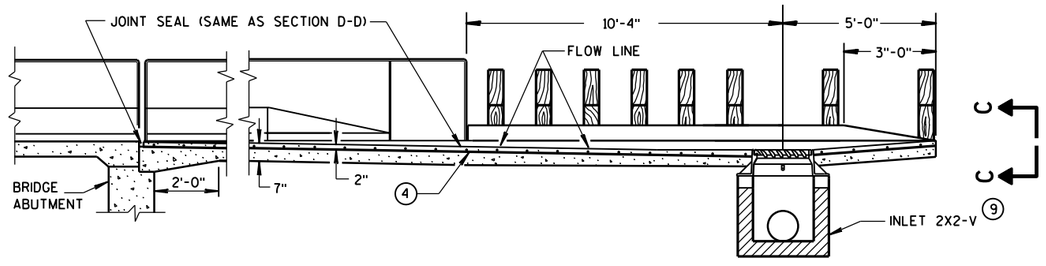


EXPANSION JOINT DETAIL

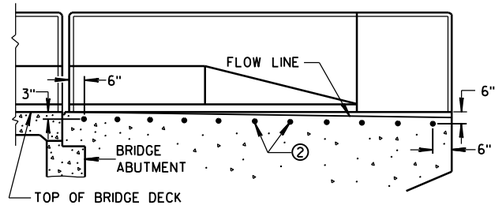




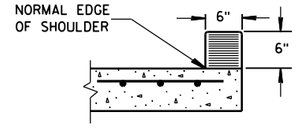
PLAN VIEW



SECTION A-A



LOCATION OF TIE BARS IN WINGWALL



SECTION C-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.

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

(1) NO. 4 X 2'-0" TIE BARS SPACED AT 3'-0" CENTERS TO BE USED ONLY WHEN ADJACENT TO P.C. CONCRETE.

(2) NO. 4 X 2'-0" TIE BARS SPACED AT 12" CENTERS TO BE PLACED BY BRIDGE CONTRACTOR, OR DRILLED TIE BARS PLACED AS DIRECTED BY THE ENGINEER.

(3) THE PIPE UNDERDRAIN MAY BE ANY ONE OF THE SIX MATERIALS LISTED IN THE STANDARD SPECIFICATIONS SECTION 612.2 EXCEPT DRAIN TILE.

(4) MINIMUM REINFORCEMENT SHALL BE 6" X 6" - W4.0 X W4.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C-C.

(5) LIMITS OF ADDITIONAL RIPRAP WHEN SPECIAL DITCH IS REQUIRED.

(6) GEOTEXTILE FABRIC.

(7) HOT POURED SEALANT UNLESS OTHERWISE SPECIFIED.

(8) THIS DIMENSION MAY VARY DEPENDING ON THE SPACING OF POSTS FOR THE STEEL PLATE BEAM GUARD. THE TYPICAL LOCATION FOR THE SURFACE DRAIN IS WHERE THE POST SPACING WIDENS TO 3'-1½".

(9) SEE CURRENT STANDARD DETAIL DRAWINGS 8A5 AND 8C7 FOR DETAILS.

CONCRETE SURFACE DRAINS DROP INLET TYPE AT STRUCTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS UNIT SUPERV...
FHWA

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S.D.D. 8 D 3-7

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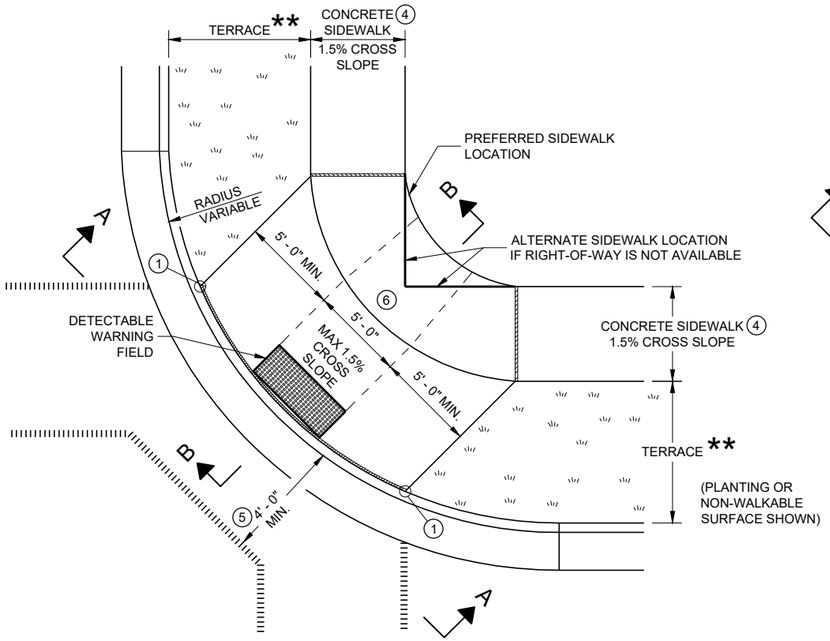
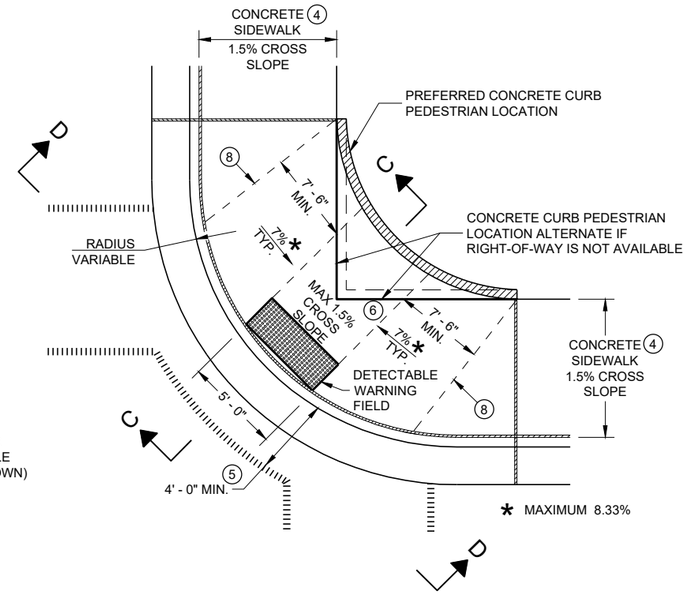
S.D.D. 8 D 3-7



PLAN VIEW

CURB RAMP TYPE 1

(CENTER OF CORNER RADIUS)



PLAN VIEW

CURB RAMP TYPE 1 - A

(NO TERRACE)

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.

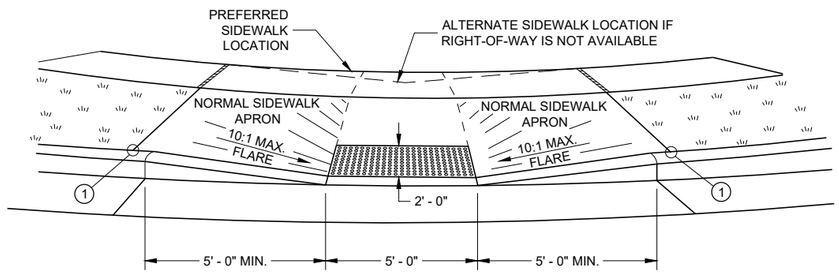
(3) MAXIMUM 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

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

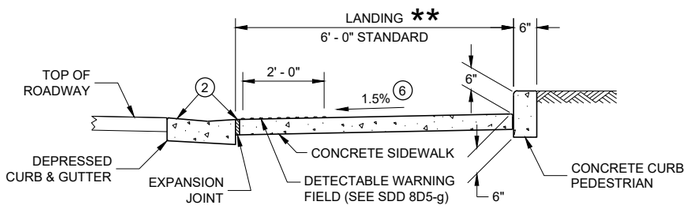
(5) PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA.

(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.



VIEW A - A FOR TYPE 1

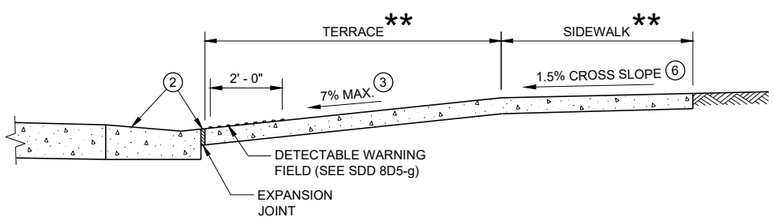


SECTION C - C FOR TYPE 1 - A

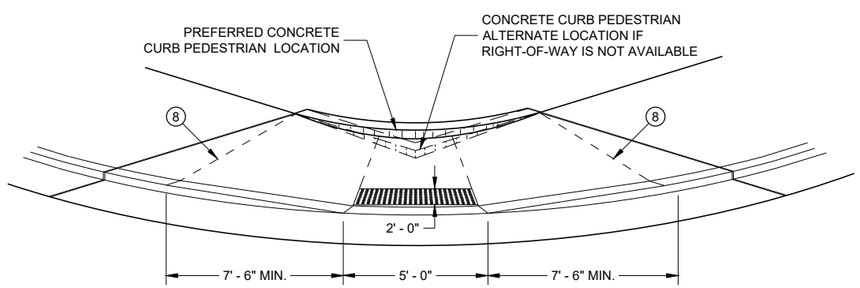
LEGEND

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

** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B - B FOR TYPE 1



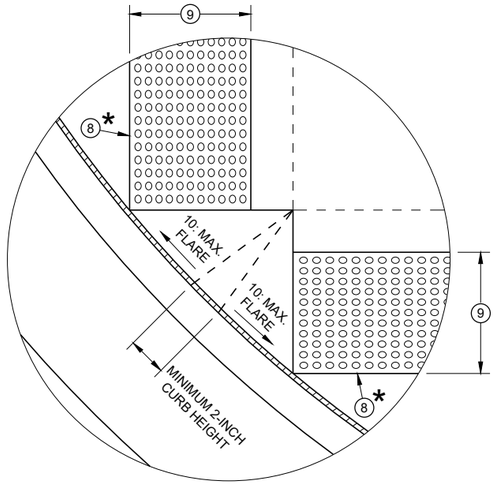
VIEW D - D FOR TYPE 1 - A

CURB RAMPS
TYPE 1 AND 1-A

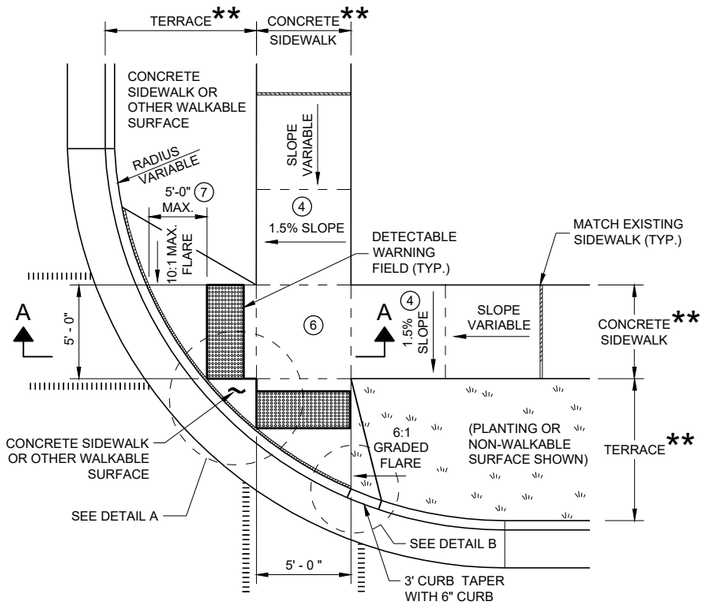
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 08D05 - 20a

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.

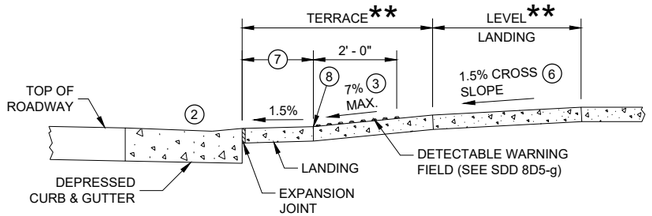
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(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.

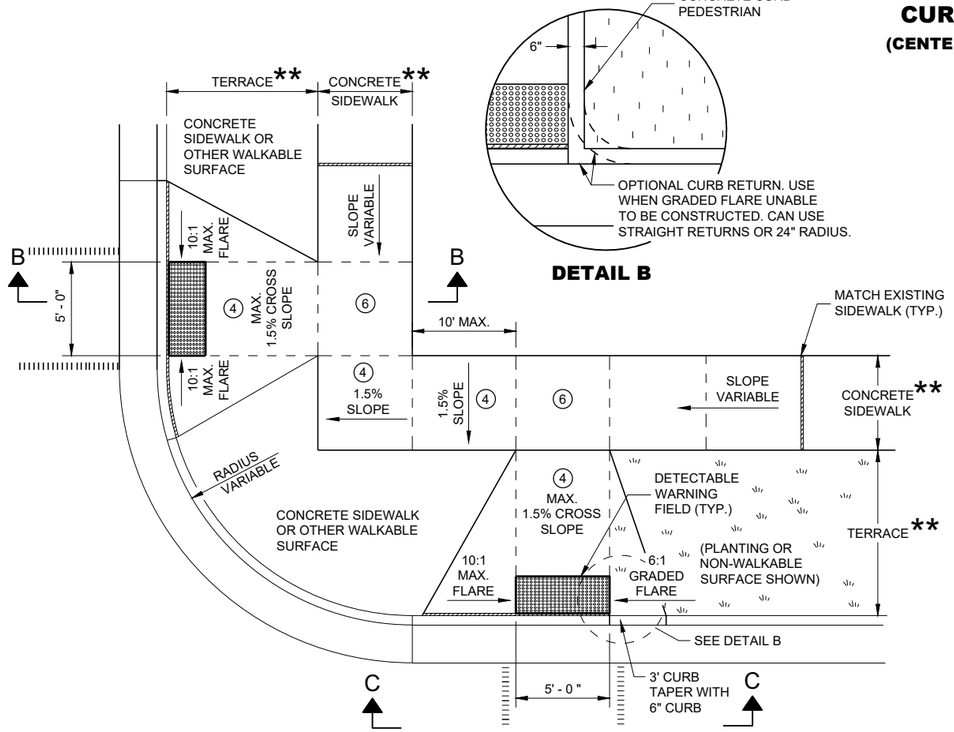
(9) WHEN DISTANCE IS LESS THAN 6' - 0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.



SECTION A - A FOR TYPE 2

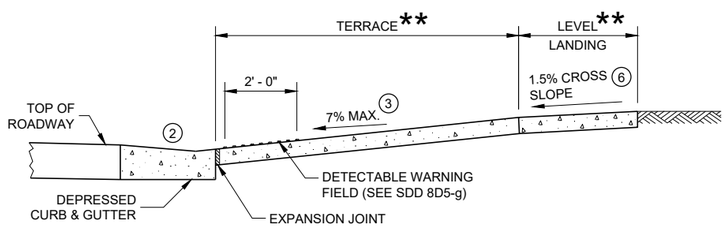
* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS

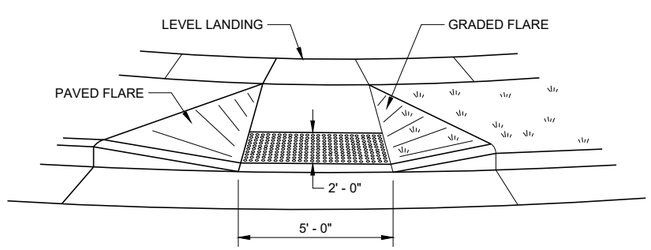


DETAIL B

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



SECTION B - B FOR TYPE 3



VIEW C - C FOR TYPE 3

LEGEND

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

CURB RAMPS TYPE 2 AND 3

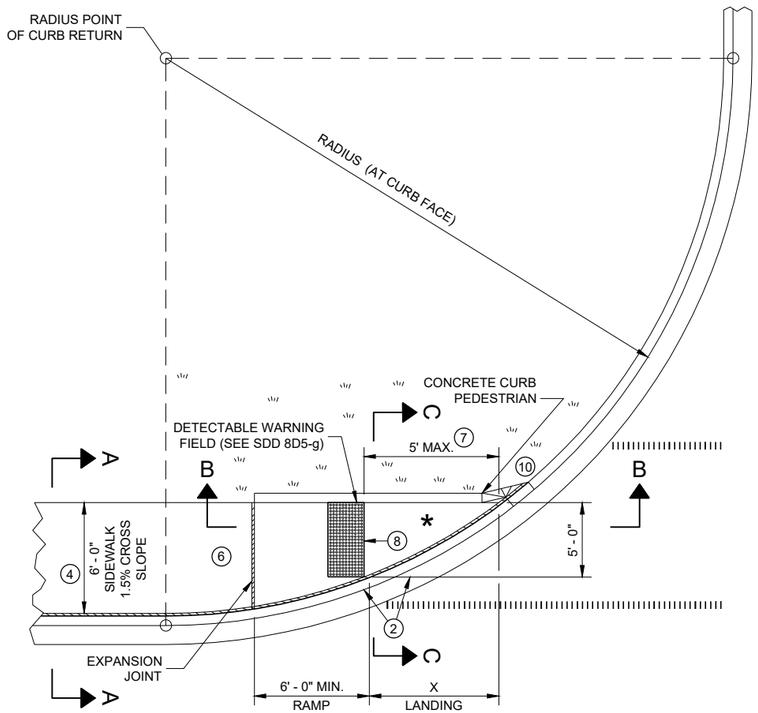
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20b

6

SDD 08D05 - 20b

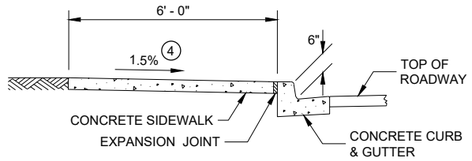


PLAN VIEW

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.

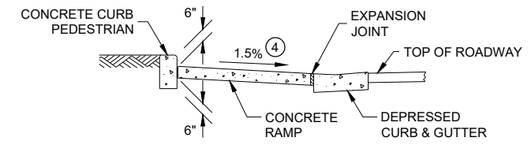
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

LEGEND

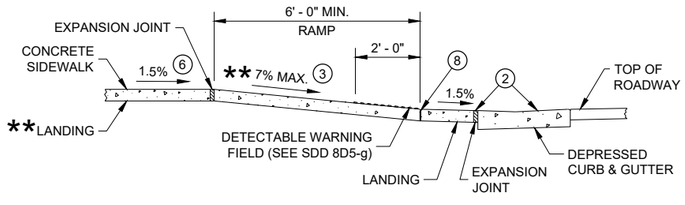
½" EXPANSION JOINT SIDEWALK

CONTRACTION JOINT SIDEWALK

PAVEMENT MARKING CROSSWALK (WHITE)



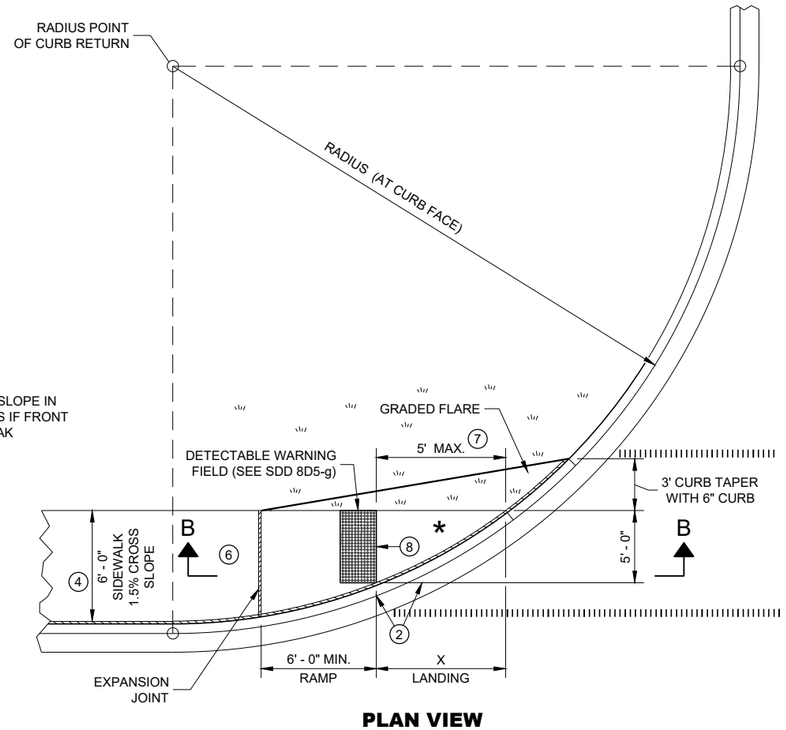
SECTION C - C FOR TYPE 4A



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

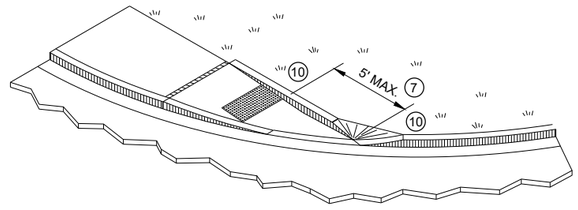
** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

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

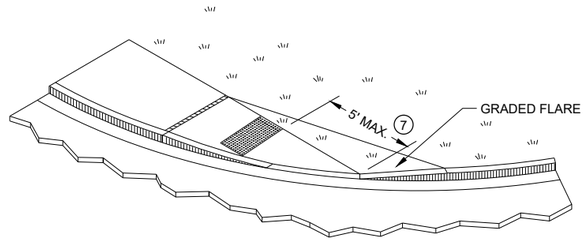


PLAN VIEW

CURB RAMP TYPE 4A1



ISOMETRIC VIEW FOR TYPE 4A



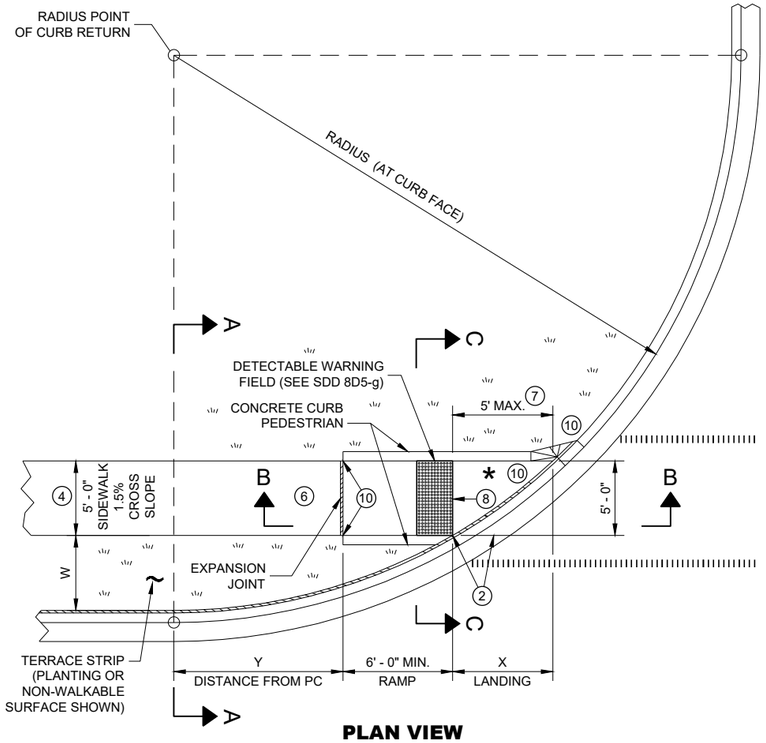
ISOMETRIC VIEW FOR TYPE 4A1

CURB RAMPS
TYPE 4A AND 4A1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20c

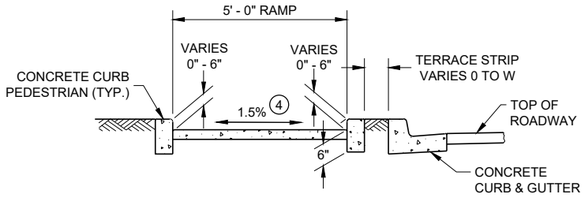


PLAN VIEW

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.

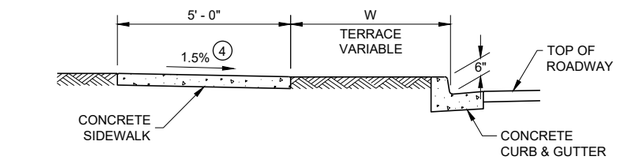
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

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

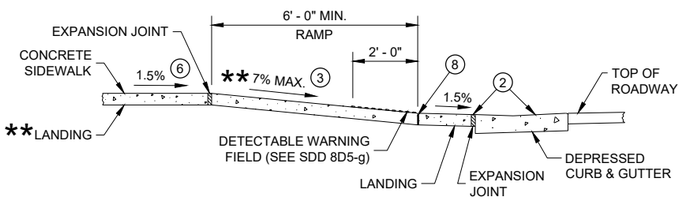
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

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

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

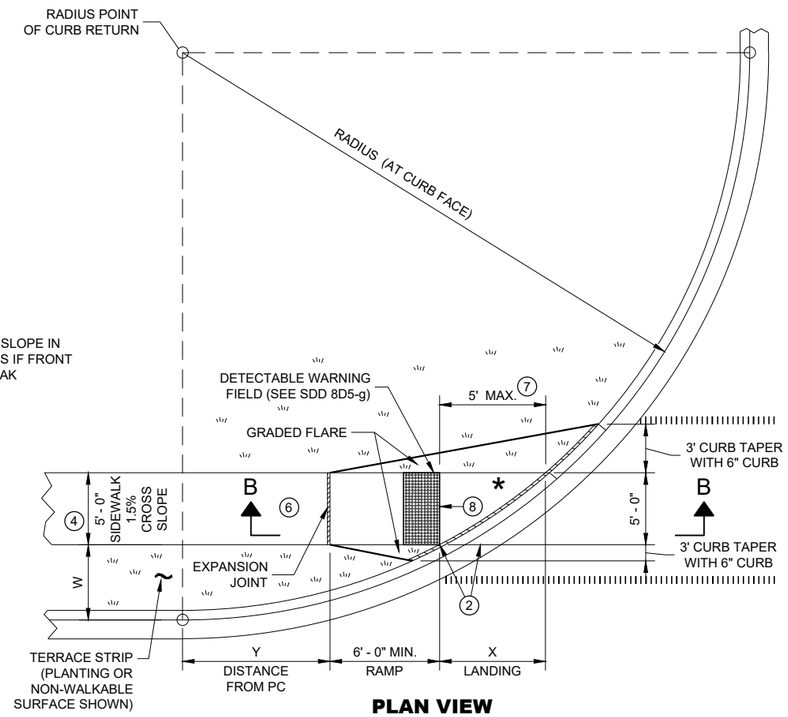


SECTION A - A FOR TYPE 4B



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

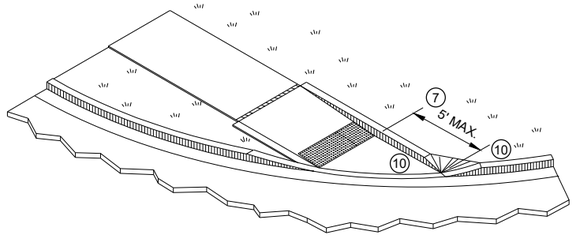
** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED



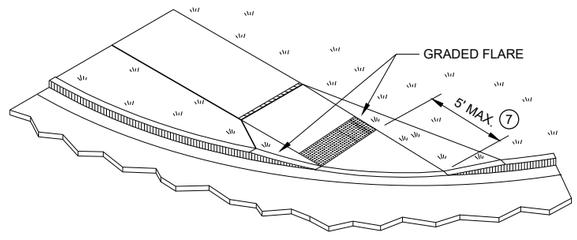
PLAN VIEW

CURB RAMP TYPE 4B1

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



ISOMETRIC VIEW FOR TYPE 4B



ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN
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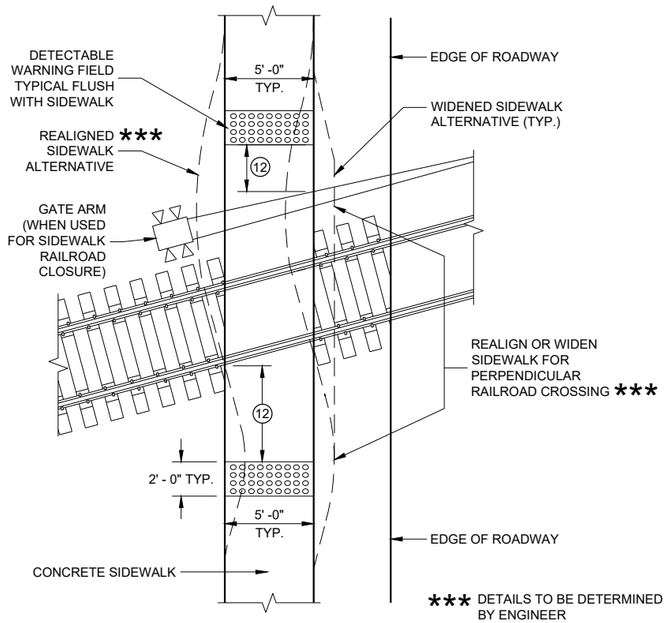
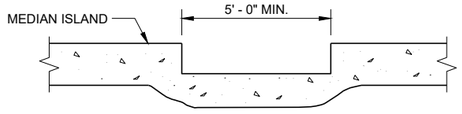
SDD 08D05 - 20d

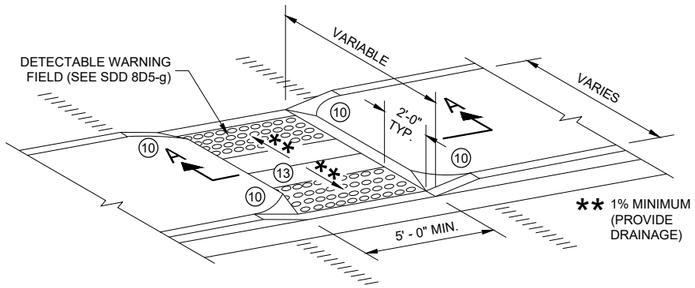


CURB RAMP TYPE 8

DETECTABLE WARNINGS AT RAILROAD CROSSING



SECTION A - A FOR TYPE 5



CURB RAMP TYPE 5

MEDIAN ISLAND NON-ELEVATED PEDESTRIAN CROSSING

GENERAL NOTES

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

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

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

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

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

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

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

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

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

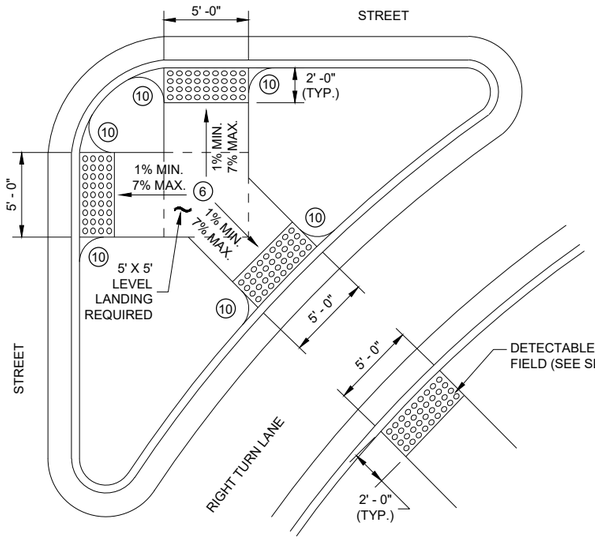
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

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

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

LEGEND

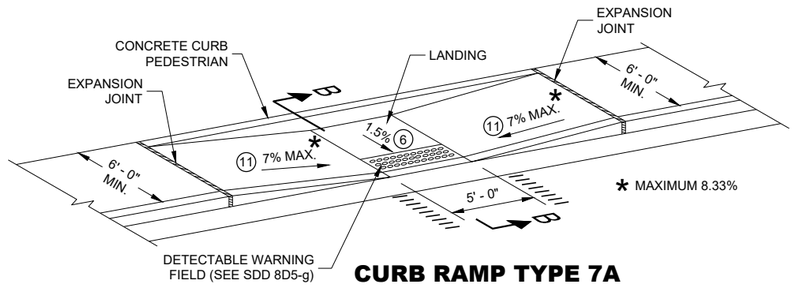
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)



CURB RAMP TYPE 6

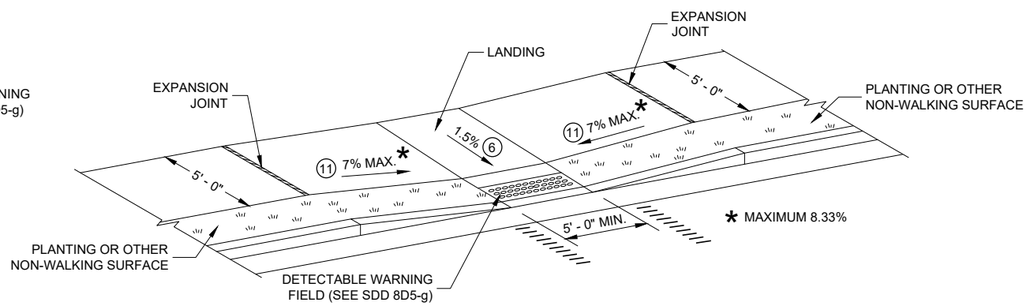
DETECTABLE WARNING AT ISLANDS

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



CURB RAMP TYPE 7A

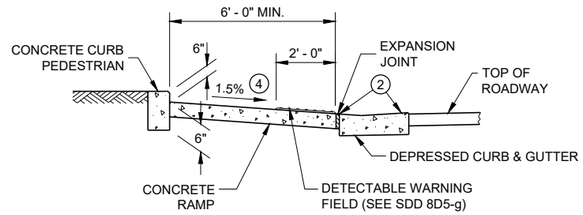
MID BLOCK CROSSING



CURB RAMP TYPE 7B

MID BLOCK CROSSING

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



SECTION B - B FOR TYPE 7A

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

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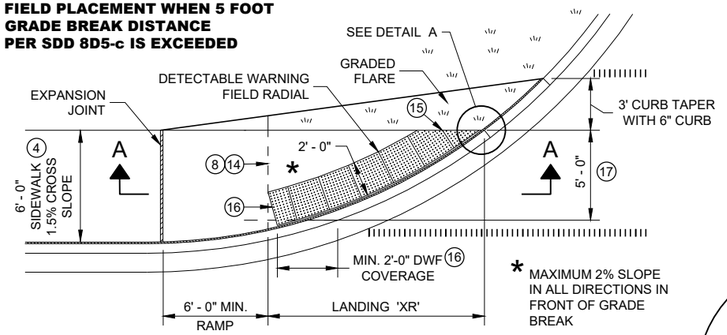
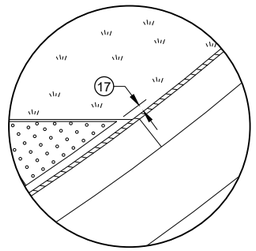
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-c IS EXCEEDED



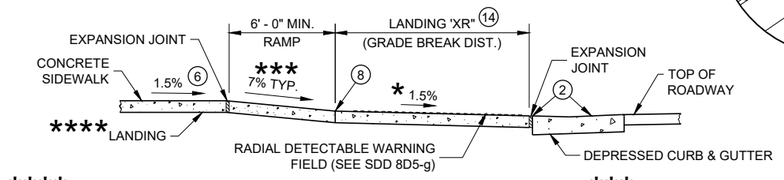
PLAN VIEW

CURB RAMP TYPE 4A1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



DETAIL A

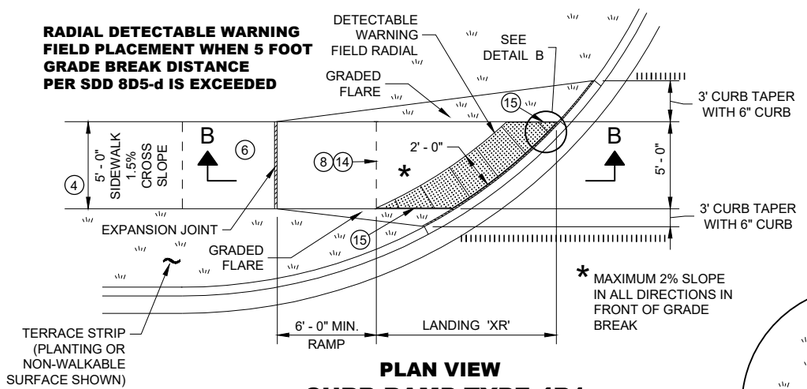


**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION A - A FOR TYPE 4A1

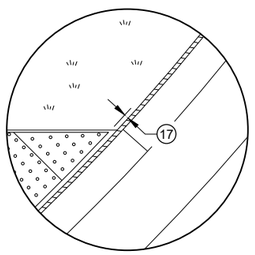
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-d IS EXCEEDED



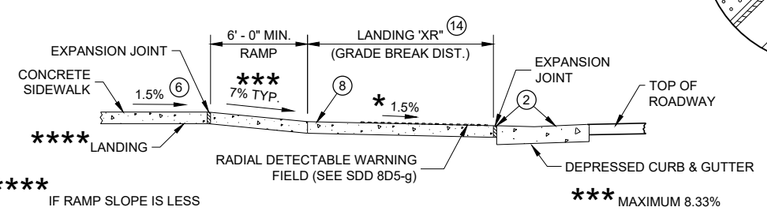
PLAN VIEW

CURB RAMP TYPE 4B1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



DETAIL B



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

*** MAXIMUM 8.33%

SECTION B - B FOR TYPE 4B1

LEGEND

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

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

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

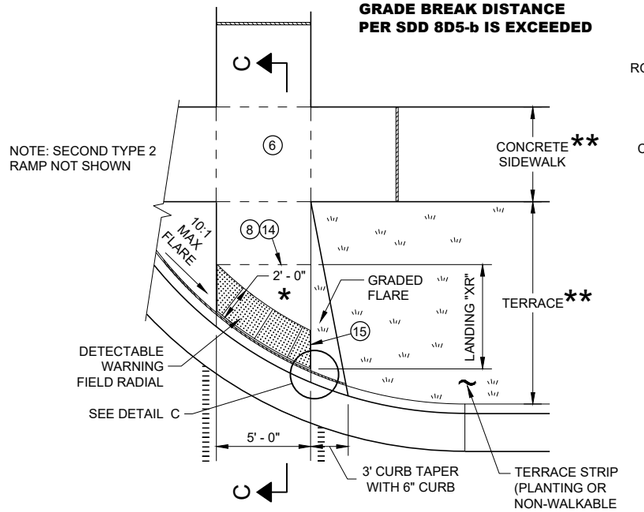
(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION "XR") REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

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

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

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

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

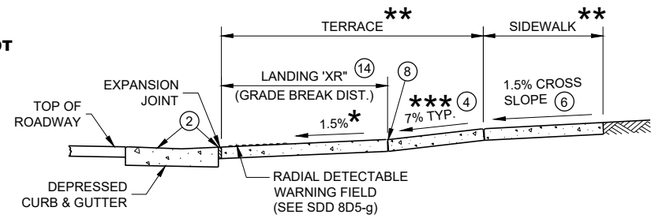


PLAN VIEW

CURB RAMP TYPE 2

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)

(ON LINE WITH SIDEWALK)

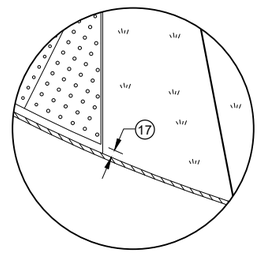


SECTION C - C FOR TYPE 2

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

** WIDTH SHOWN ELSEWHERE IN THE PLANS

*** MAXIMUM 8.33%



DETAIL C

CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS

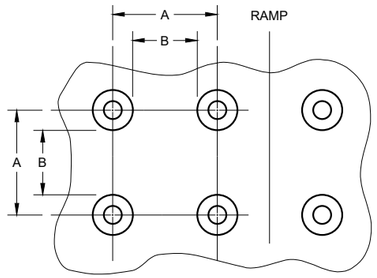
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 08D05 - 20f

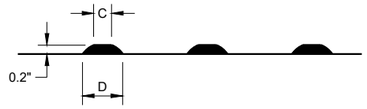
SDD 08D05 - 20f

	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.

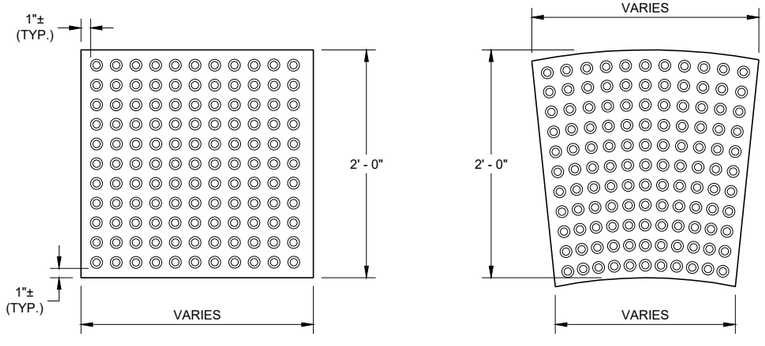


PLAN VIEW



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.

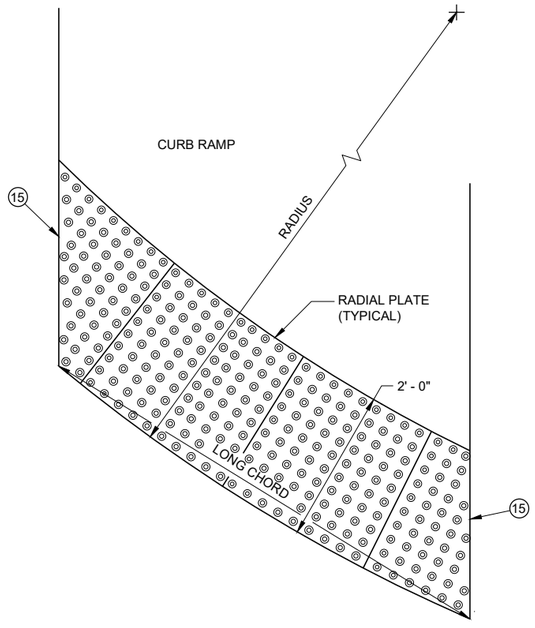
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

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.

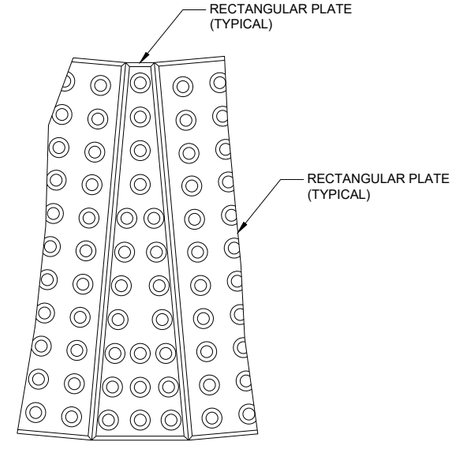
REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

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

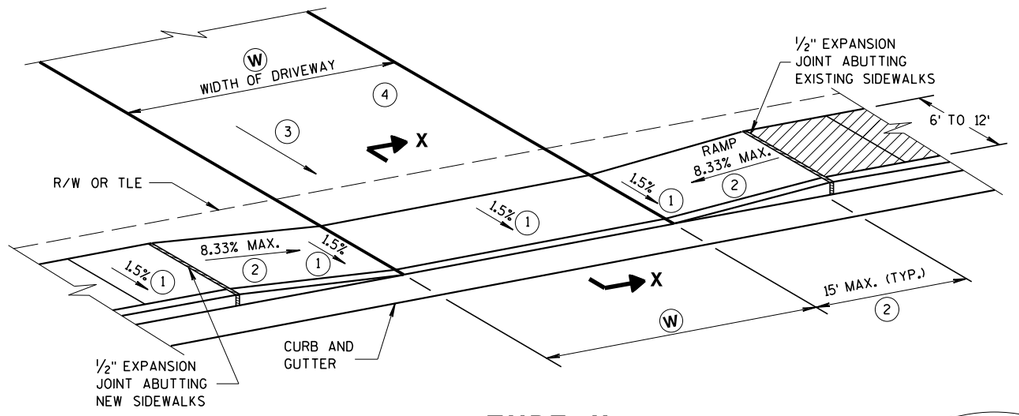
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

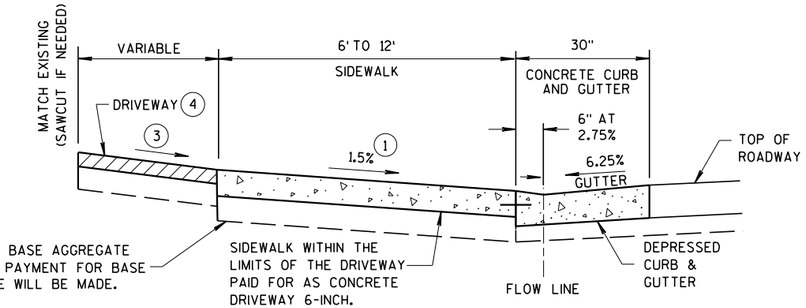
FHWA

6

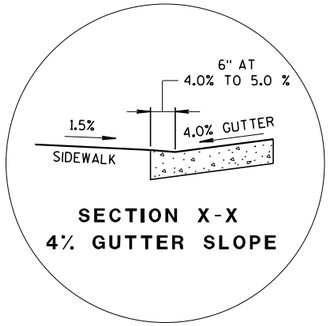
SDD 08D05 - 20g



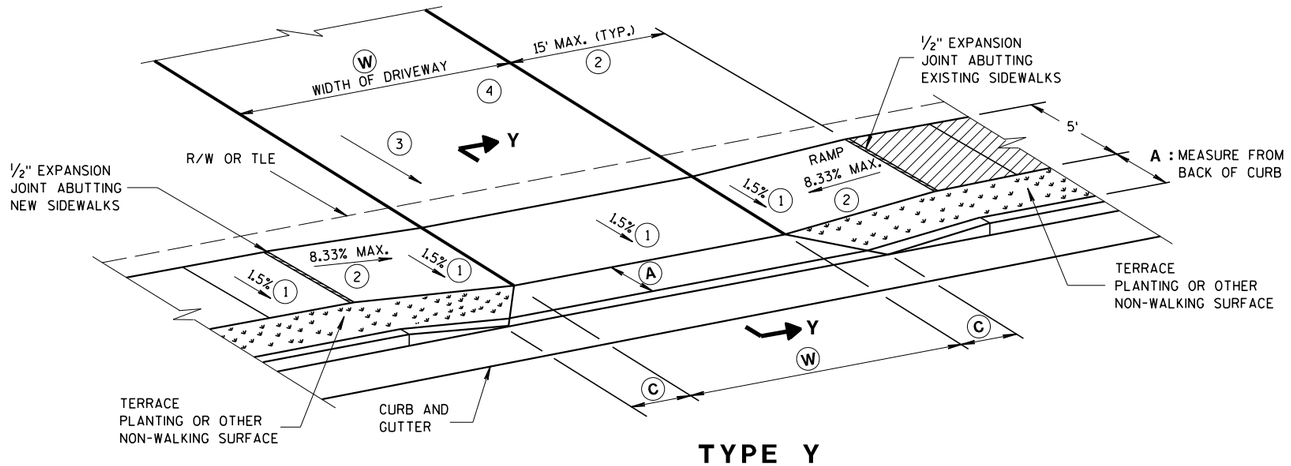
TYPE X
SIDEWALK ABUTS CURB & GUTTER
TERRACE VARIES 0 TO 3 FEET



SECTION X-X



SECTION X-X
4% GUTTER SLOPE



TYPE Y
SIDEWALK WITH NARROWER TERRACE
TERRACE VARIES 4 TO 6 FEET

W: 12' MIN. - 24' MAX. RESIDENTIAL AND NON-COMMERCIAL (PE & FE)
16' MIN. - 35' MAX. COMMERCIAL (CE)

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.

(W) IS SHOWN ON PLAN AND PROFILE SHEETS.

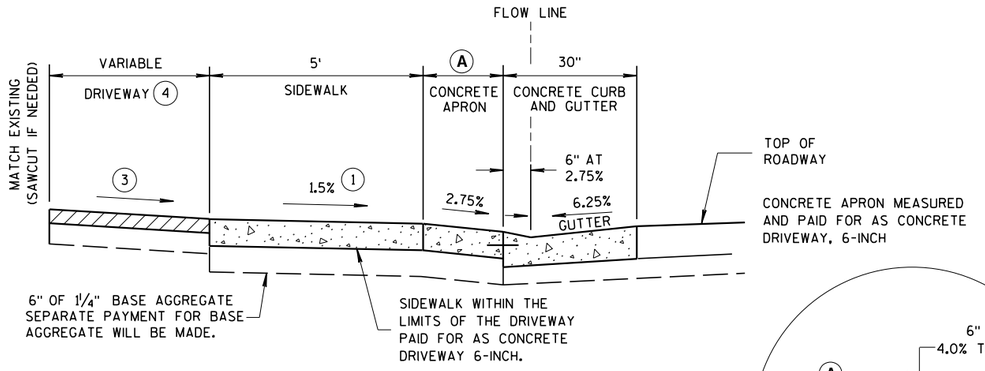
OFFSETS, ELEVATIONS, AND PERCENT GRADE ARE SHOWN ON THE CROSS SECTIONS.

(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.

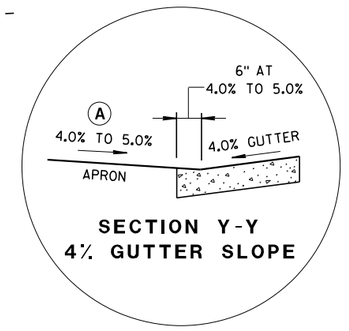
(3) DRIVEWAY SLOPES: DESIRABLE MAXIMUM
- 10.5% UP AWAY FROM SIDEWALK (SAG)
- 8.5% DOWN AWAY FROM SIDEWALK (CREST)
- ABSOLUTE MAXIMUM 15% FOR BOTH CREST AND SAG

(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)



NOTE: SIDEWALK MAY BE DEPRESSED IN DRIVEWAY AREAS

SECTION Y-Y



SECTION Y-Y
4% GUTTER SLOPE

DRIVEWAY DETAIL
WITH CONCRETE CURB & GUTTER
(URBAN AND SUBURBAN)

TABLE Y

(A) FEET	(C) FEET
3.5'	2.0'
4.5'	3.0'
5.5'	3.5'

NOT TO SCALE

DRIVEWAY AND SIDEWALK RAMPS TYPES X & Y

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS UNIT SUPERVISOR
FHWA

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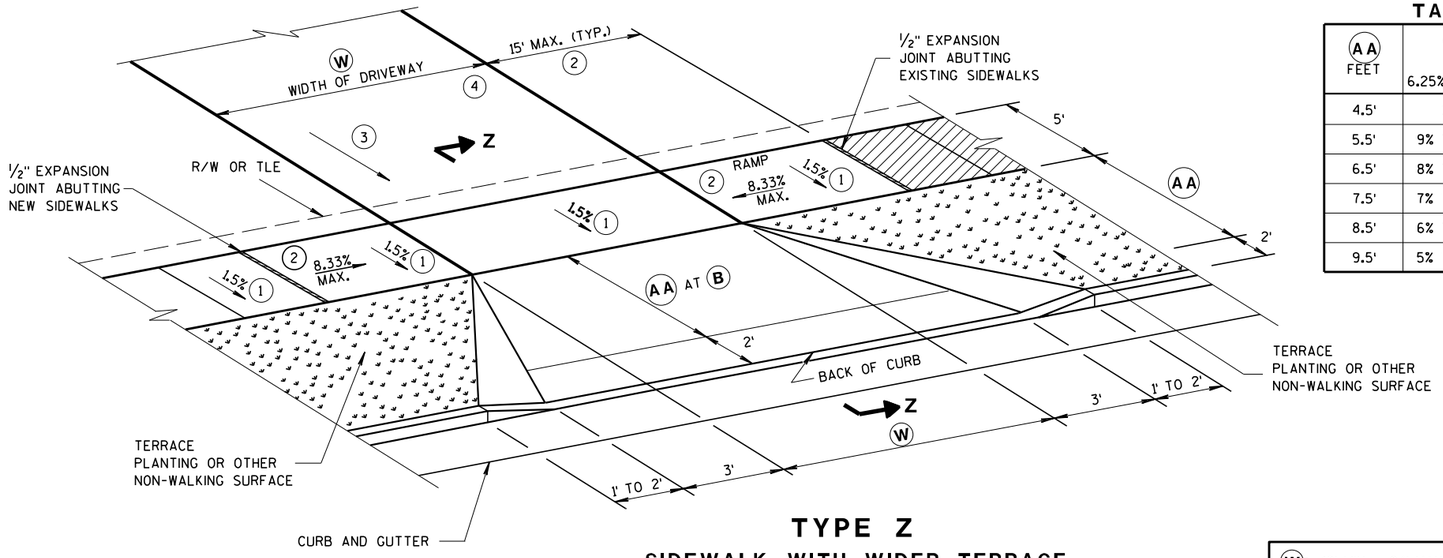
S.D.D. 8 D 18-2



TYPE Z

SIDEWALK WITH WIDER TERRACE

TERRACE VARIES 7 TO 12 FEET

TABLE Z

AA FEET	B % 6.25% GUTTER	B % 4% GUTTER
4.5'	11.5%	9% TO 11.5%
5.5'	9% TO 11.5%	8% TO 11.5%
6.5'	8% TO 11.5%	6% TO 11.5%
7.5'	7% TO 11.5%	6% TO 11.5%
8.5'	6% TO 11.5%	5% TO 11.5%
9.5'	5% TO 11.5%	4% TO 11.5%

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

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

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.

(W) 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.

(3) DRIVEWAY SLOPES: DESIRABLE MAXIMUM

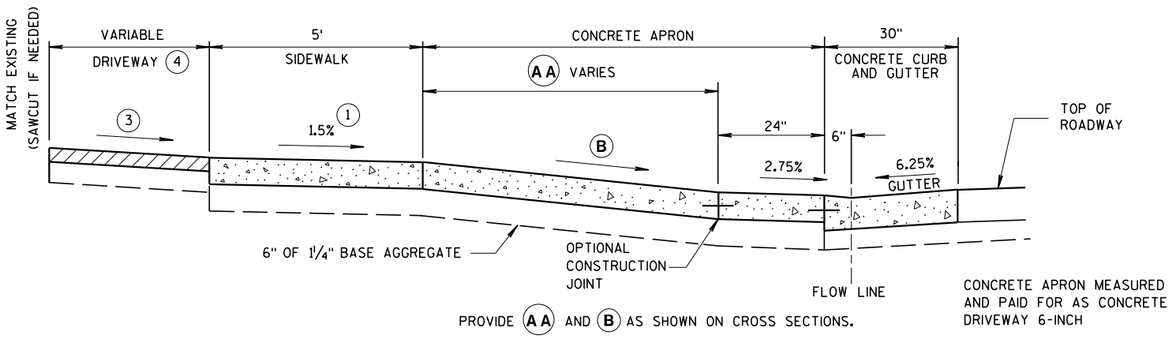
10.5% UP AWAY FROM SIDEWALK (SAG)

8.5% DOWN AWAY FROM SIDEWALK (CREST)

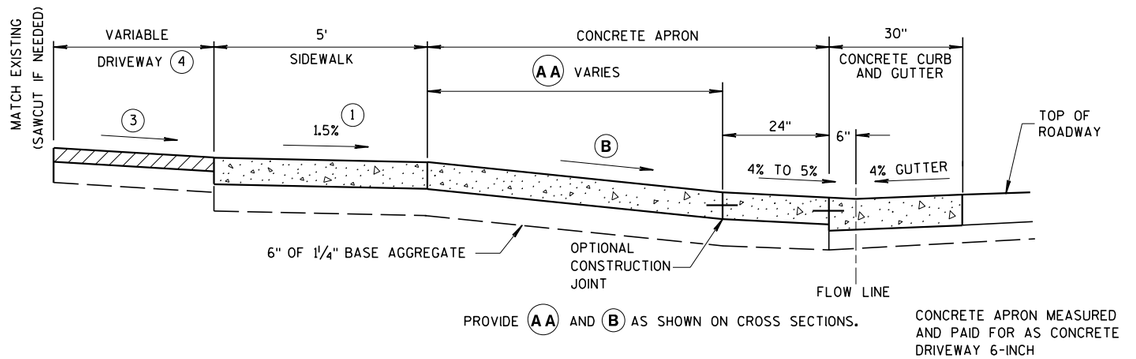
ABSOLUTE MAXIMUM 15% FOR BOTH CREST AND SAG

(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)



6.25% GUTTER SLOPE



4% GUTTER SLOPE

NOTE: SIDEWALK MAY BE DEPRESSED IN DRIVEWAY AREAS FOR **B** VALUES NOT SHOWN IN TABLE Z.

SIDEWALK WITHIN THE LIMITS OF THE DRIVEWAY PAID FOR AS CONCRETE DRIVEWAY 6-INCH.

SEPARATE PAYMENT FOR BASE AGGREGATE WILL BE MADE.

SECTION Z-Z

DRIVEWAY DETAIL WITH CONCRETE CURB & GUTTER

(URBAN AND SUBURBAN)

NOT TO SCALE

DRIVEWAY AND SIDEWALK RAMPS TYPE Z

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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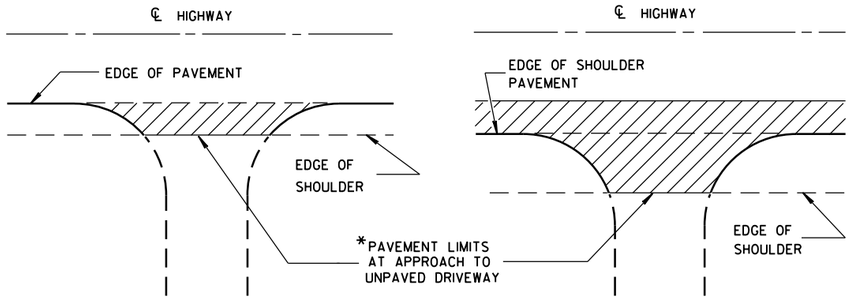
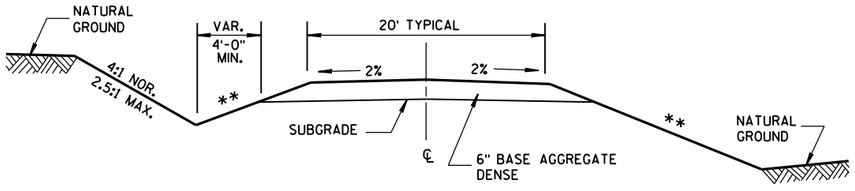


*WHERE DRIVEWAY IS PAVED, APPROACH PAVEMENT SHOULD BE EXTENDED TO MATCH DRIVEWAY PAVEMENT.

PLAN VIEW
(UNPAVED SHOULDER ON HIGHWAY)

PLAN VIEW
(PAVED SHOULDER ON HIGHWAY)

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

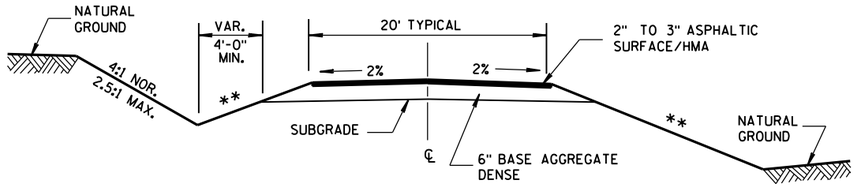


IN CUT **IN FILL**

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE AGGREGATE SURFACE

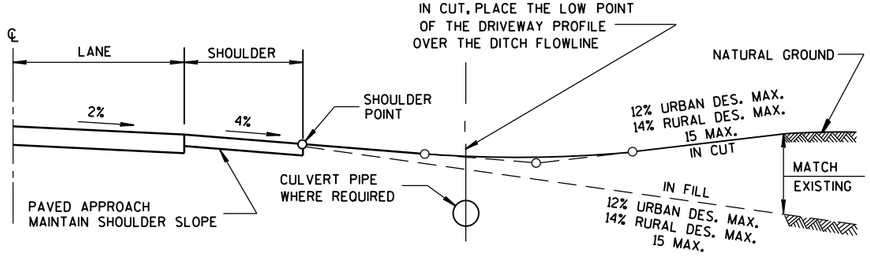
** SLOPE CAN VARY WITH SPEED. SEE 11-45-2.6.2.

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



TYPICAL DRIVEWAY PROFILES

DRIVEWAYS WITHOUT CURB & GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December, 2016 /S/ Rodney Taylor
DATE ROADWAY STANDARDS UNIT SUPERV
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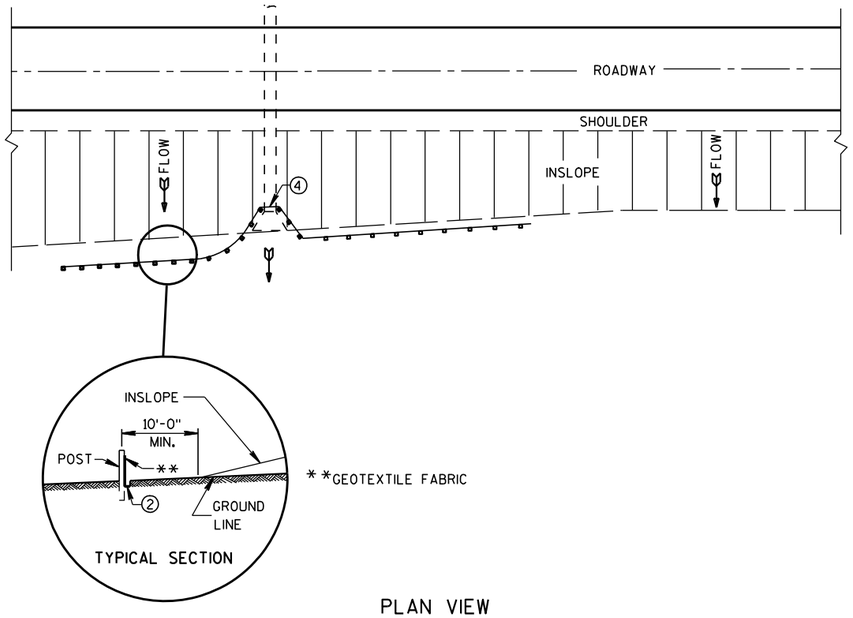
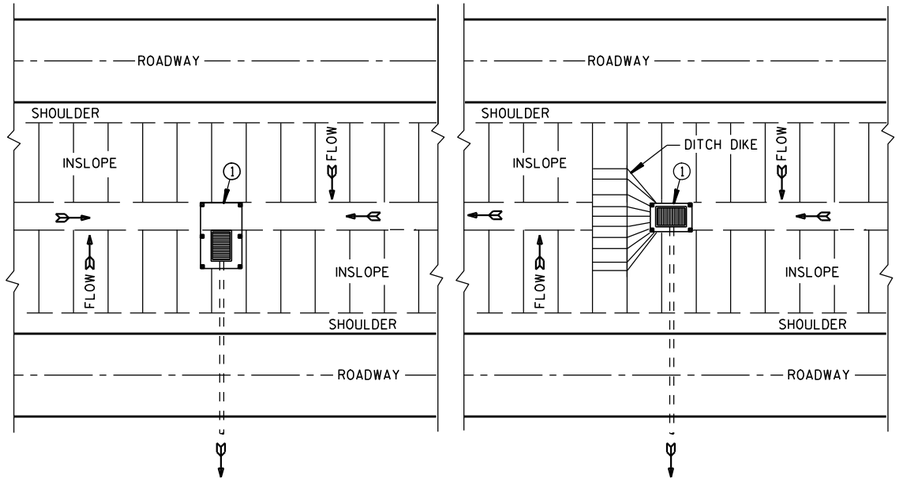


PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



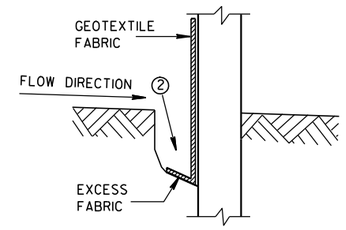
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

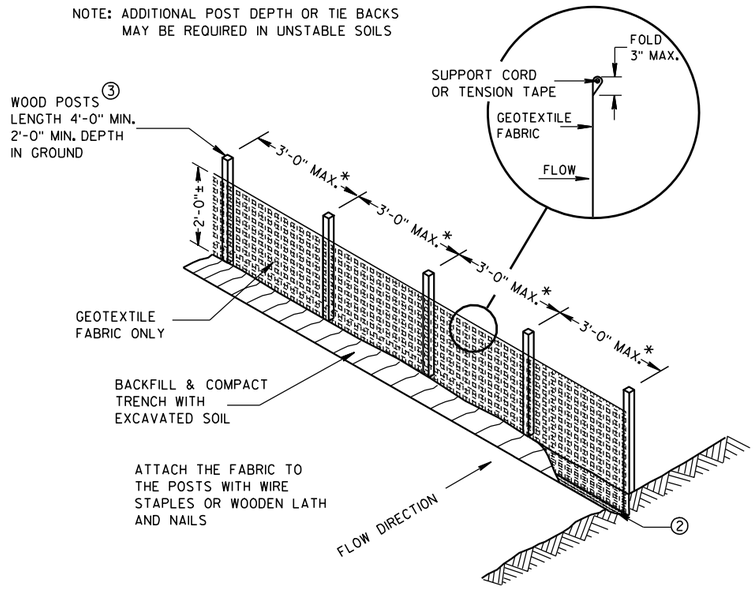
GENERAL NOTES

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

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

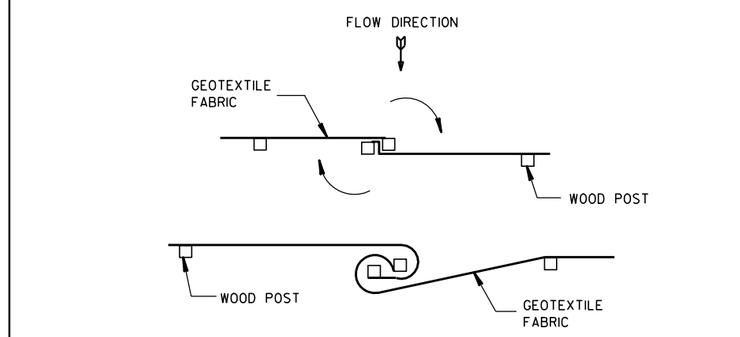


TRENCH DETAIL

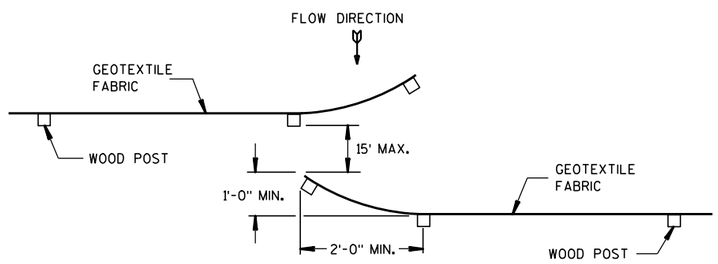


*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE

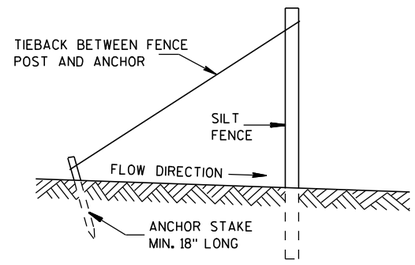


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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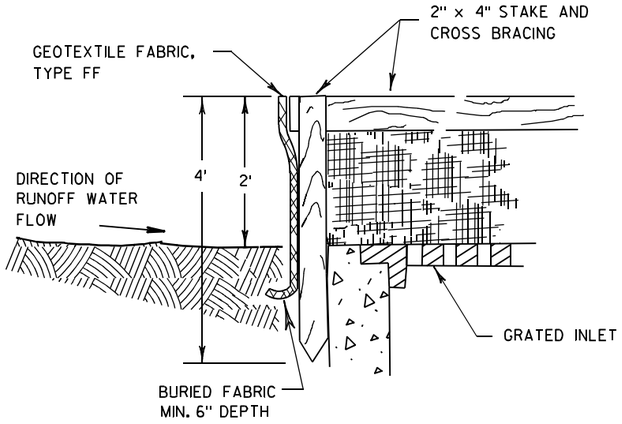
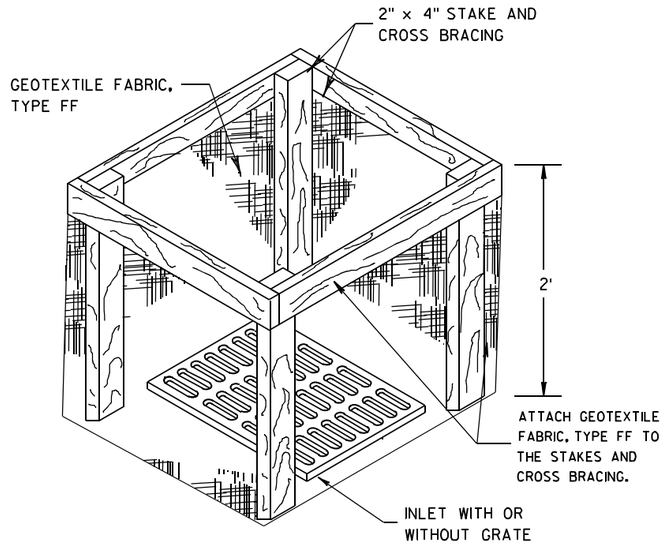
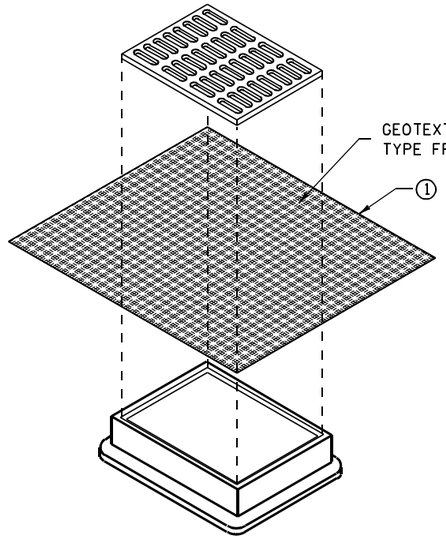
S.D.D. 8 E 9-6



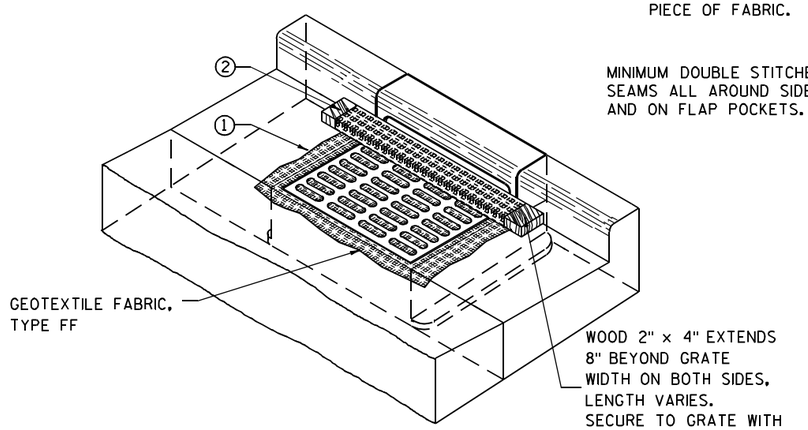


INLET PROTECTION, TYPE A

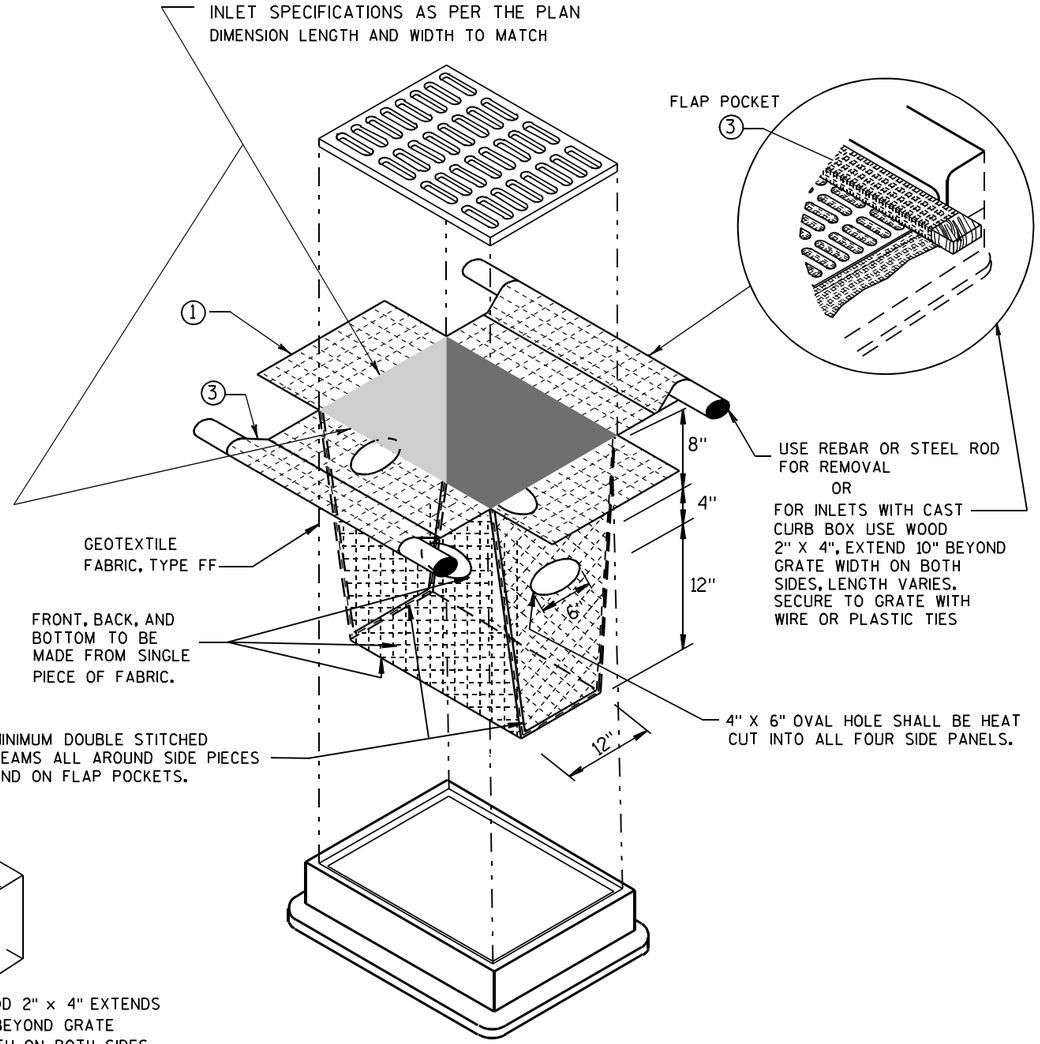


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(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

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S.D.D. 8 E 10-2

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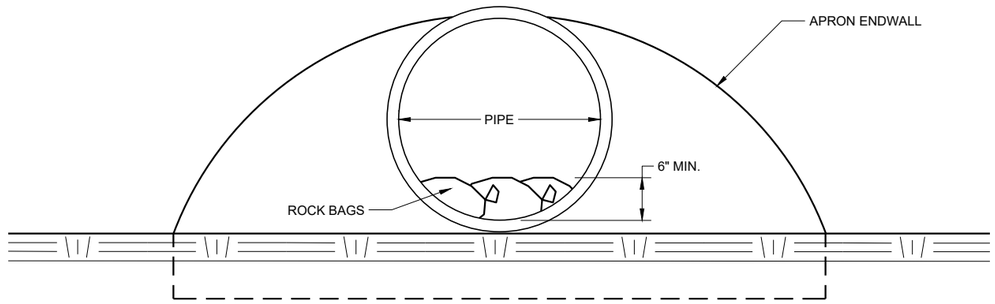
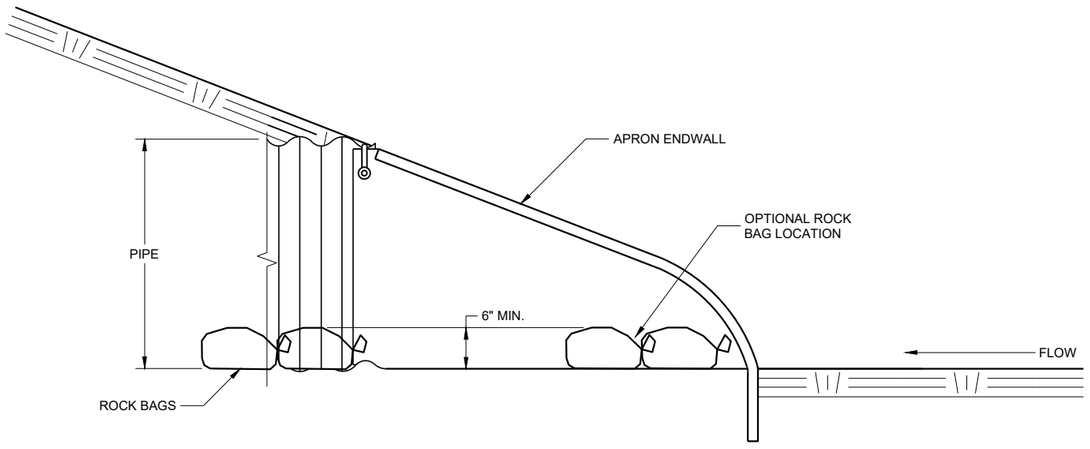
S.D.D. 8 E 10-2



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

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SDD 08E15 - 01

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SDD 08E15 - 01

METAL APRON ENDWALLS

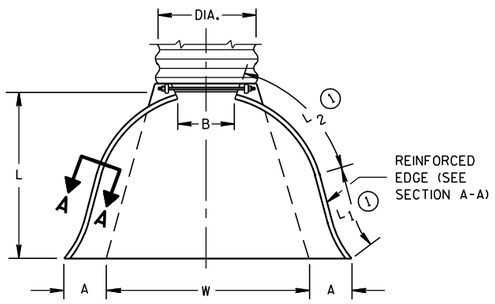
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4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

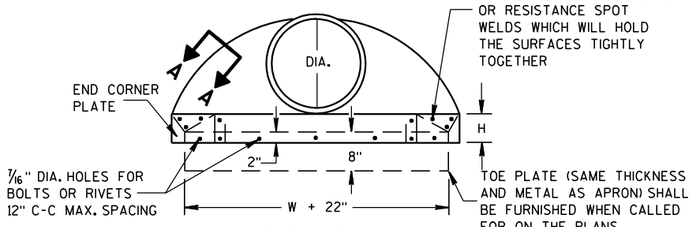
REINFORCED CONCRETE APRON ENDWALLS

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

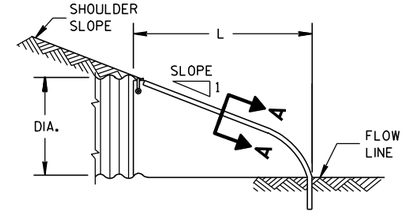
*MINIMUM
**MAXIMUM



PLAN VIEW

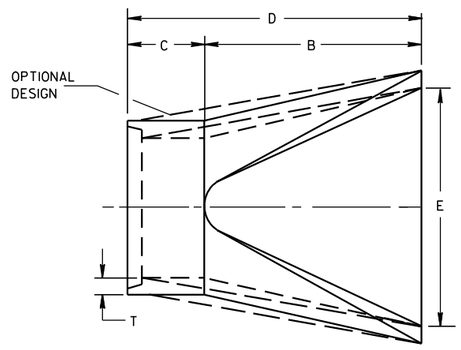


END VIEW

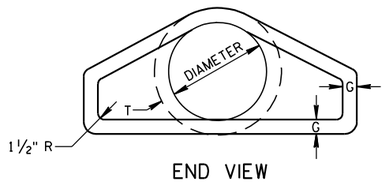


SIDE ELEVATION

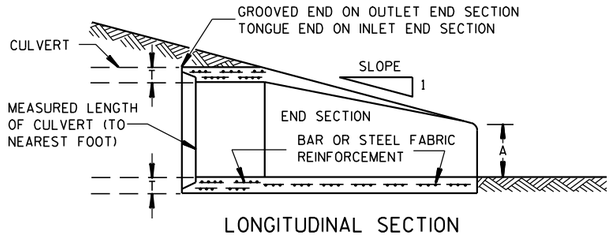
METAL ENDWALLS



PLAN

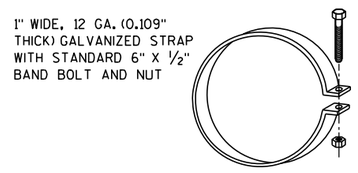


END VIEW



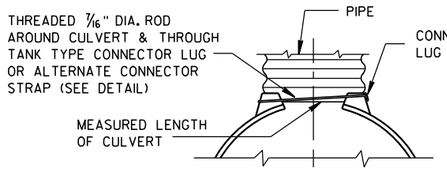
LONGITUDINAL SECTION

CONCRETE ENDWALLS

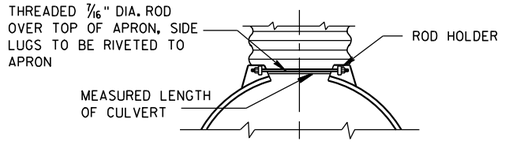


ALTERNATE FOR TYPE 1 CONNECTION

END SECTION CONNECTOR STRAP

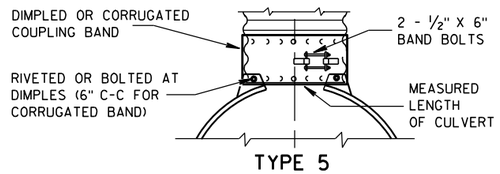


TYPE 1
FOR 12" THRU 24" CORR. PIPE



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

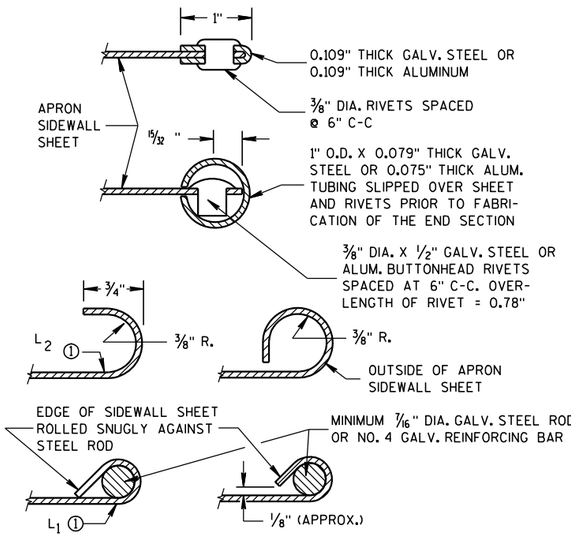
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

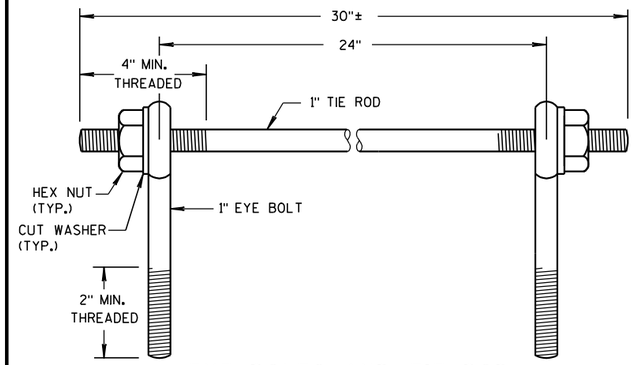
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

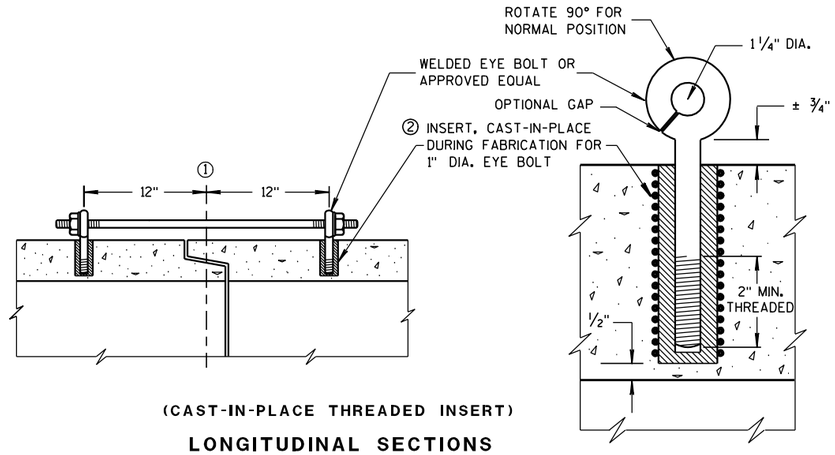
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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 ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

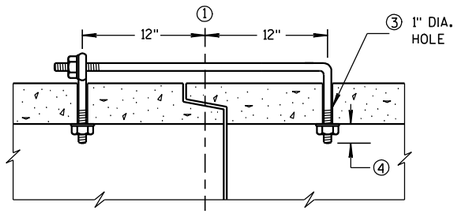
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

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

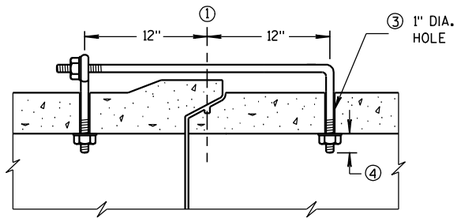
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

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



(TONGUE & GROOVE PIPE)

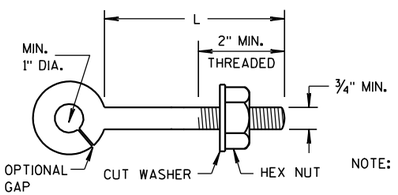


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

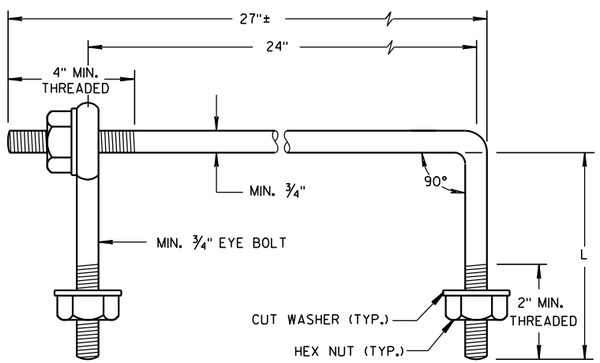
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

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



EYE BOLT AND TIE ROD

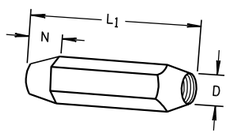
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

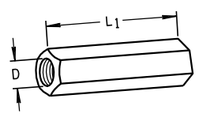
ADJUSTABLE TIE ROD TABLE

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

DIMENSIONS SHOWN ARE IN INCHES



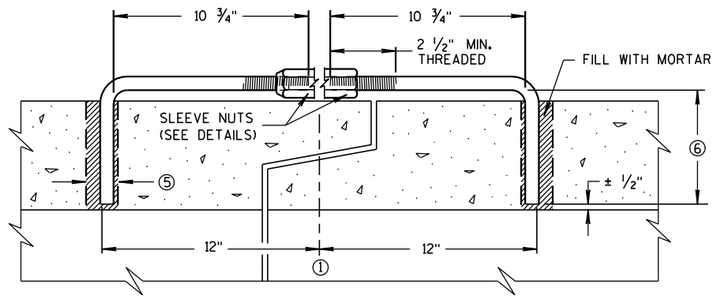
TAPERED



PLAIN

RIGHT AND LEFT THREADS

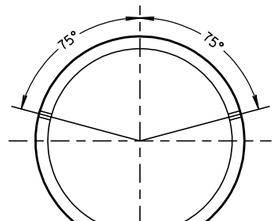
SLEEVE NUTS



LONGITUDINAL SECTION

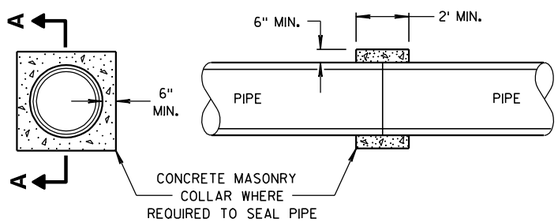
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



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

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

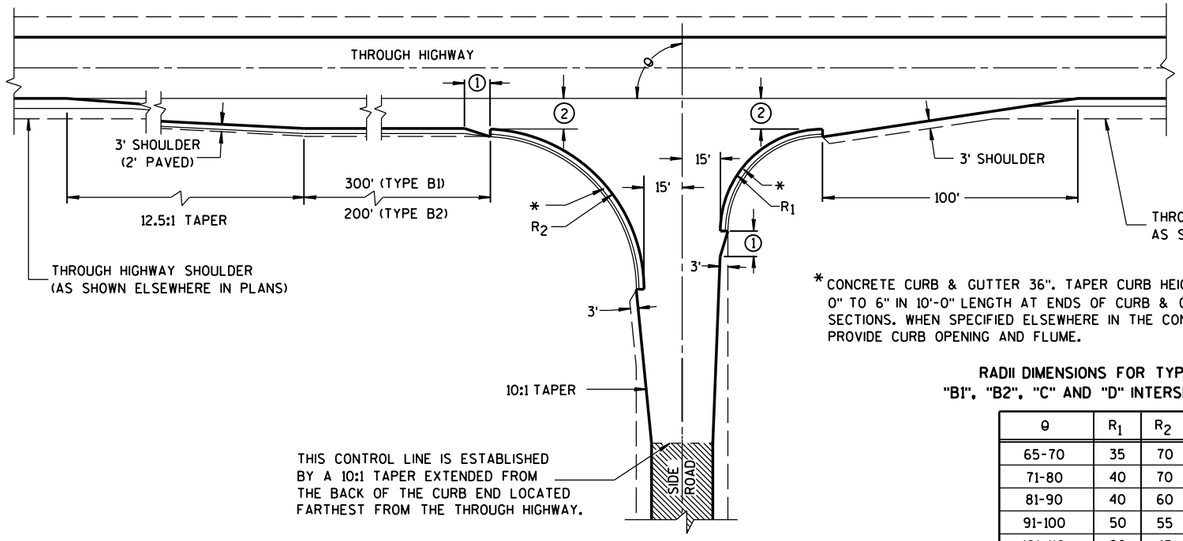
JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
339
FHWA

6

S.D.D. 8 F 4-7

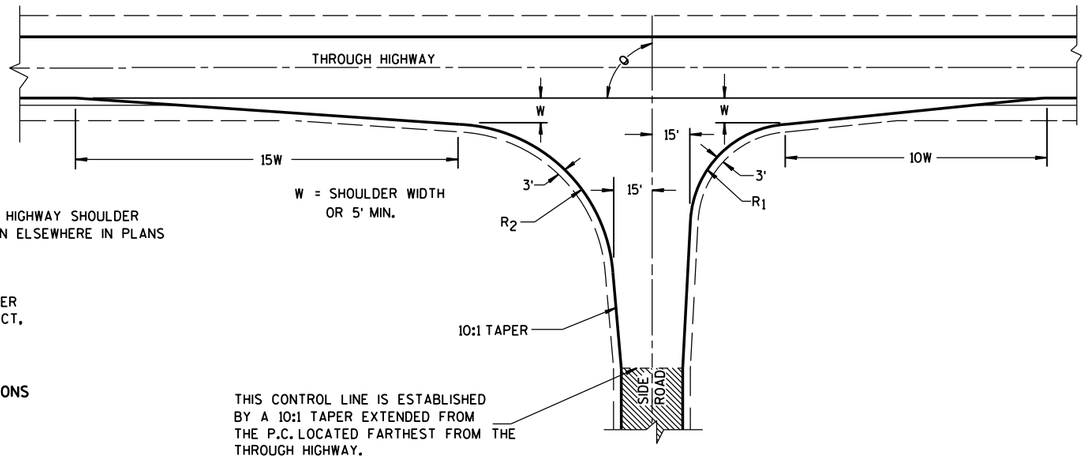


TYPE "B1" AND "B2"

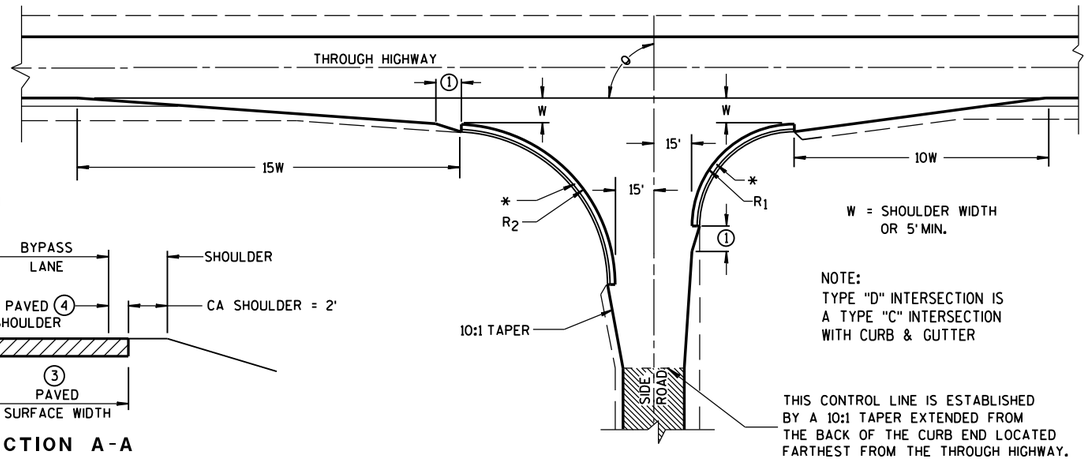
*CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

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

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



TYPE "C"



TYPE "D"

GENERAL NOTES

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

SIDE ROAD SURFACING NOTE

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

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

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

EXISTING PAVED SURFACE

BYPASS LANE

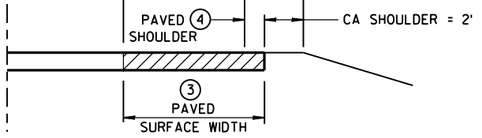
(1) 10-FT TYPICAL.

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

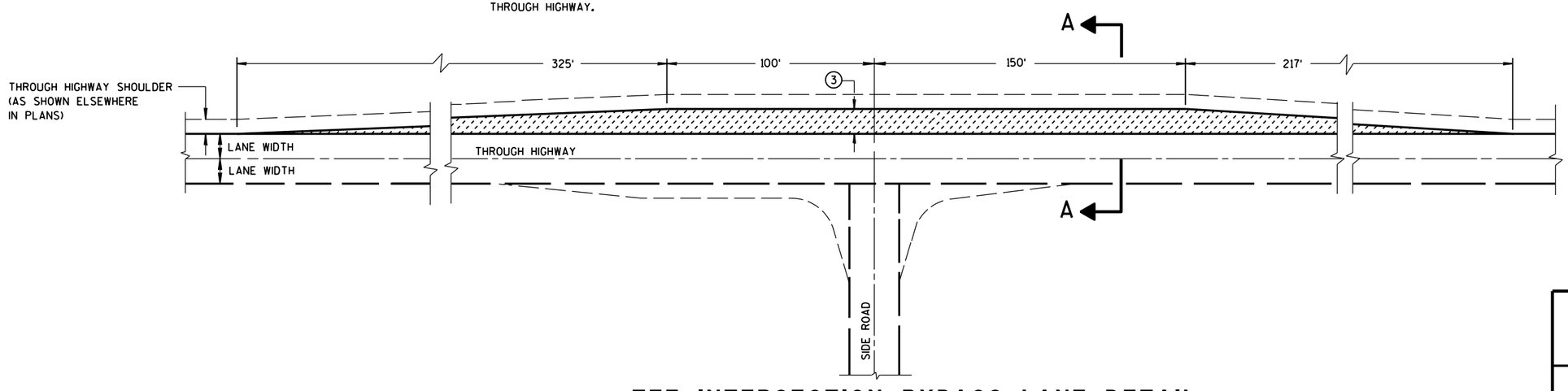
**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.

(3) BYPASS LANE PAVED SURFACE WIDTH OUTSIDE OF TRAVEL LANE
-ASPHALT = 12-FT PLUS PAVED SHOULDER WIDTH.
-PC CPNCRETE = 13-FT PLUS PAVED SHOULDER WIDTH.

(4) BYPASS LANE PAVED SHOULDER WIDTH = THE GREATER OF 1-FT OR THE PAVED SHOULDER WIDTH OF THE THROUGH HIGHWAY.



SECTION A-A
(SHOWING BYPASS LANE AND SHOULDER)



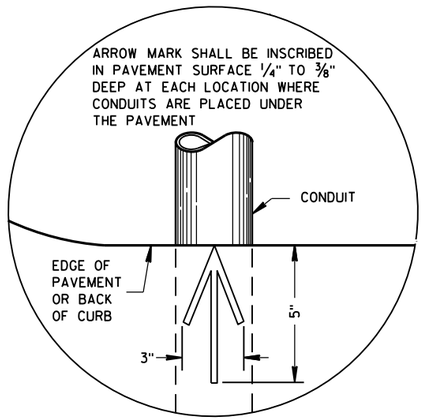
TEE INTERSECTION BYPASS LANE DETAIL

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

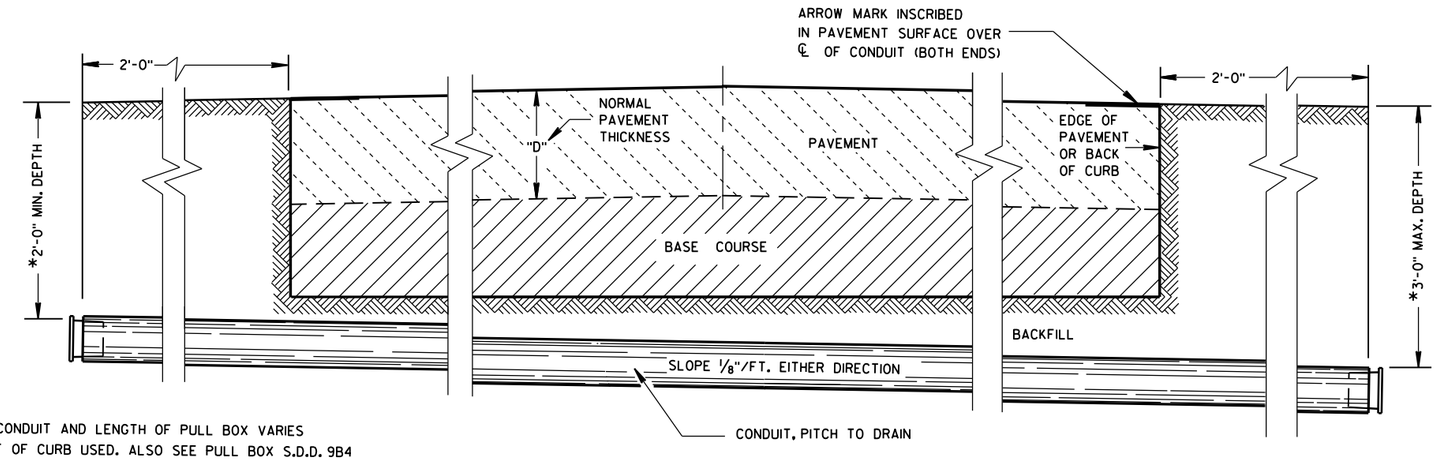
6

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



PLAN VIEW

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 1/2	22 1/2
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

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 1/2" DIAMETER

ENSURE COVER SURFACE IS SKID RESISTANT WITH A COEFFICIENT OF FRICTION OF AT LEAST 0.5 AND VERTICAL SURFACE DICONTINUITIES LESS THAN 1/4".

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 1/4".

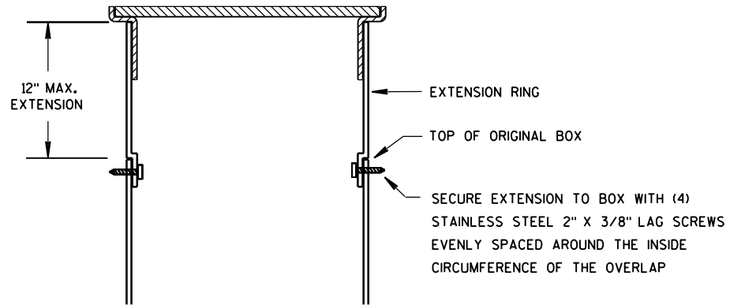
THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

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

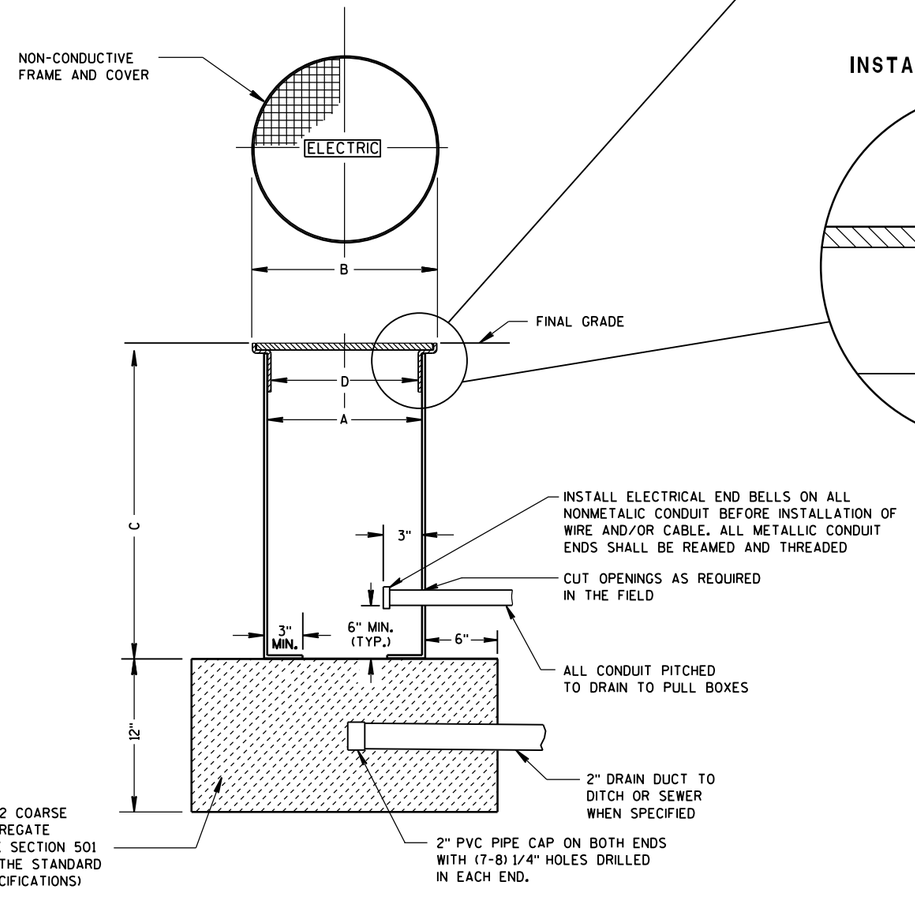
ENTIRE BOX MUST BE CONSTRUCTED OF NON-CONDUCTIVE MATERIALS WITH THE EXCEPTION OF STAINLESS STEEL FASTENERS AND MAGNETIC LOCATABLE DEVICE.

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.

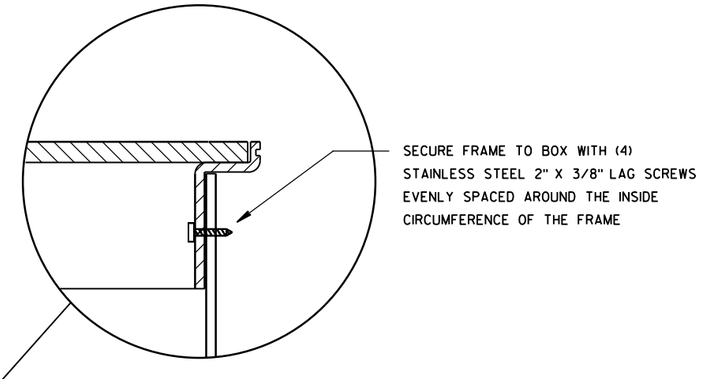


BOX EXTENSION

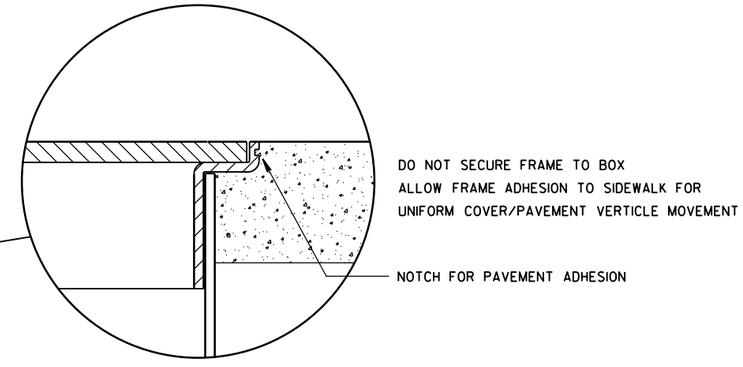


NON-CONDUCTIVE PULL BOX

INSTALLED IN SOD OR CRUSHED AGGREGATE



INSTALLED IN SIDEWALK



PULL BOX NON-CONDUCTIVE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
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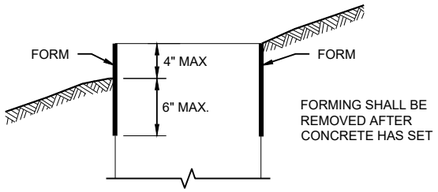
FORM DEPTH SHALL BE NO MORE THAN 6" BELOW GRADE ON THE LOWER SIDE OF BASE



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 BENDS 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.

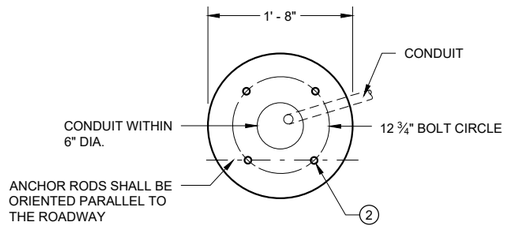
WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

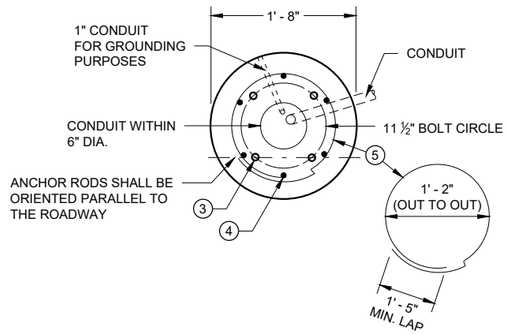
WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

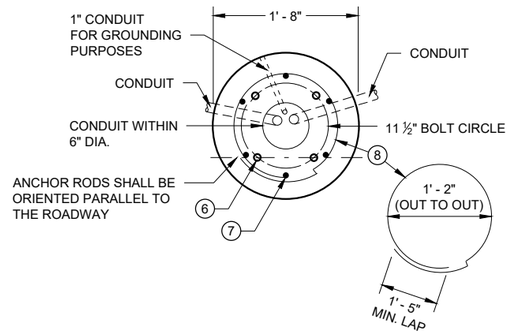
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

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

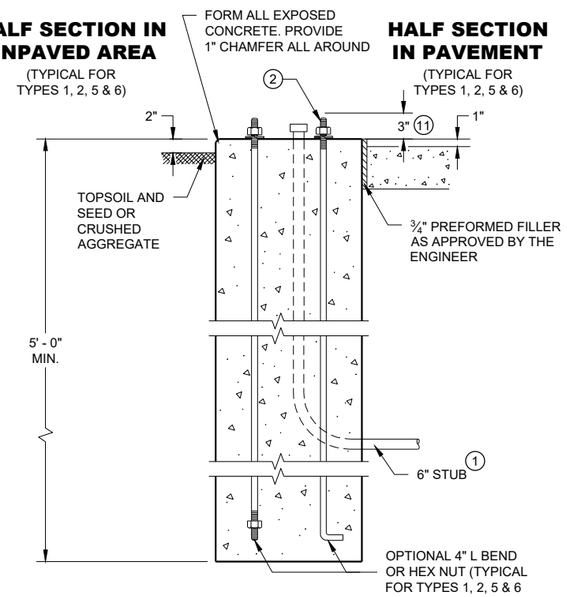
10 ⅝" DIA. X 8' -0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED

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.

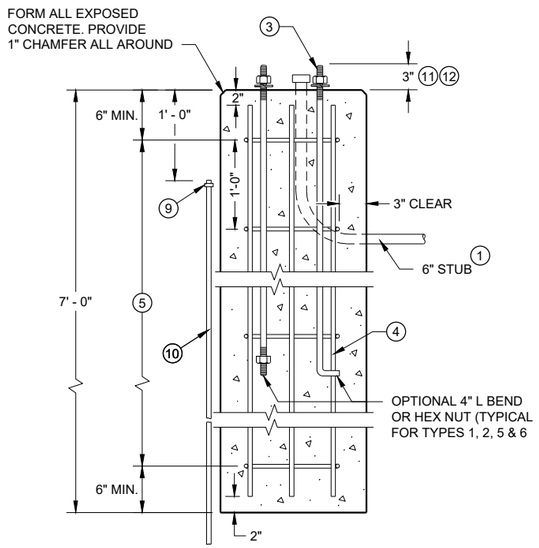
12 FOR NON - BREAKAWAY INSTALLATIONS, 4 ½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

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



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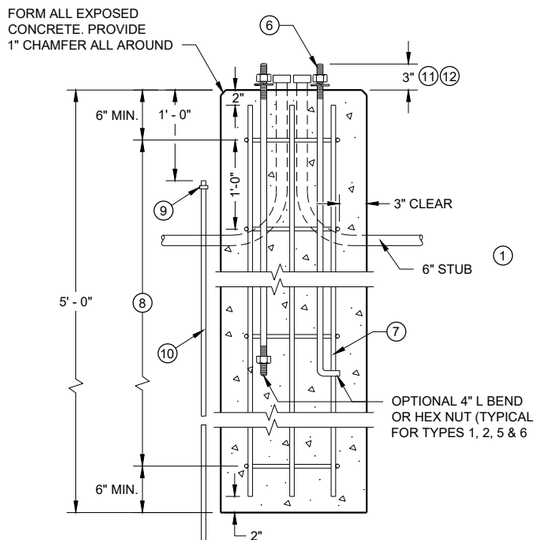


TYPE 5 & 6

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 343

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 641.2.2 OF THE STANDARD SPECIFICATIONS.

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

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

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

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

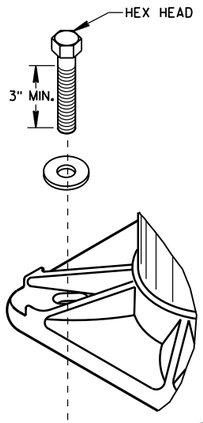
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

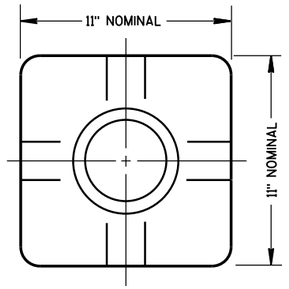
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

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

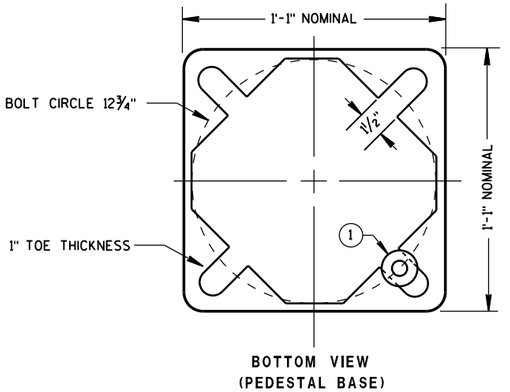
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

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

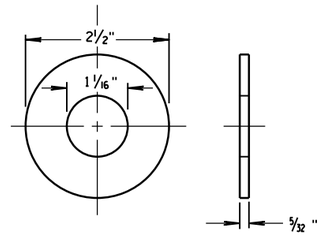




TOP VIEW
(PEDESTAL BASE)

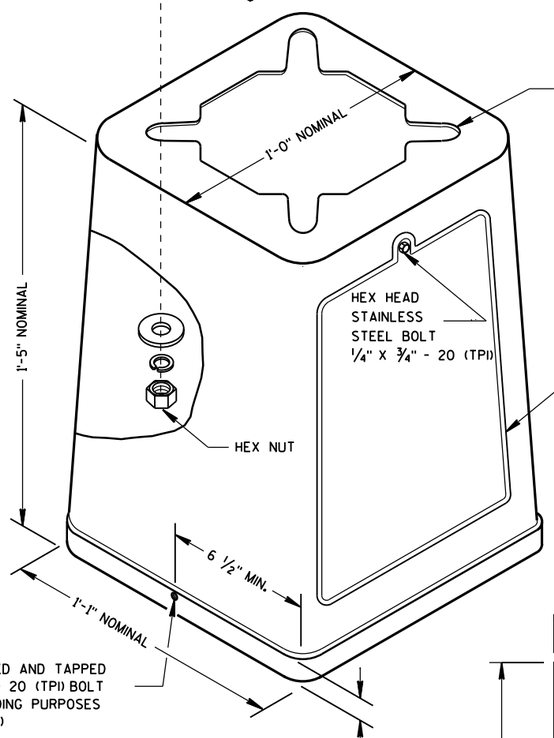


BOTTOM VIEW
(PEDESTAL BASE)

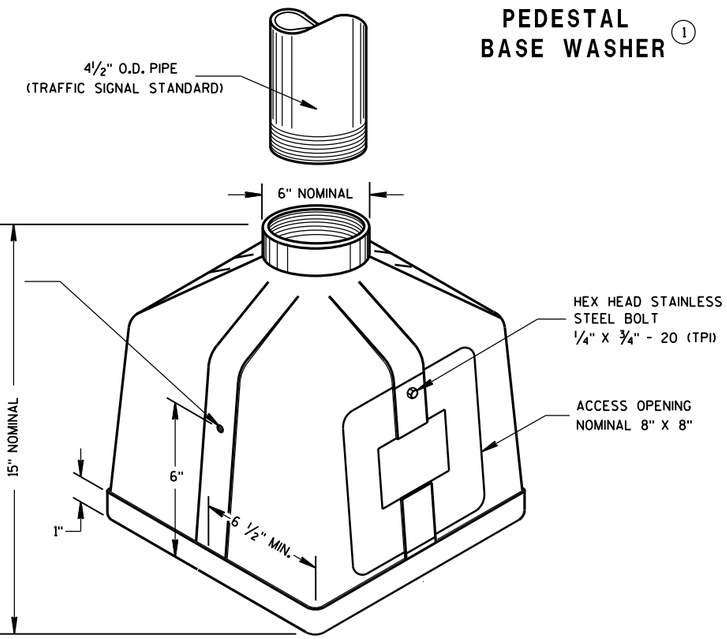


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

PEDESTAL BASE WASHER (1)

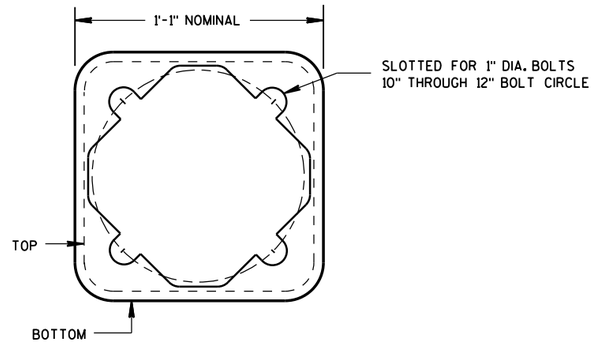


ISOMETRIC VIEW

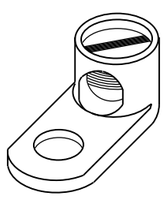


ISOMETRIC VIEW

PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)

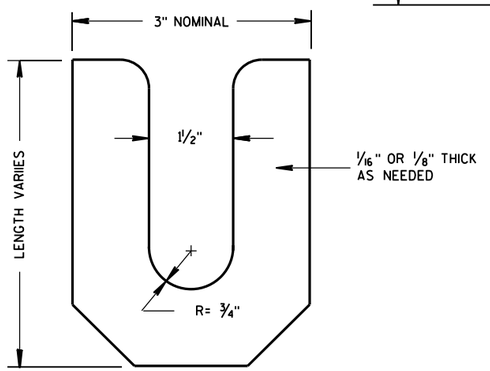


TYPICAL MECHANICAL CONNECTOR LUG

TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE

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



LEVELING SHIM

TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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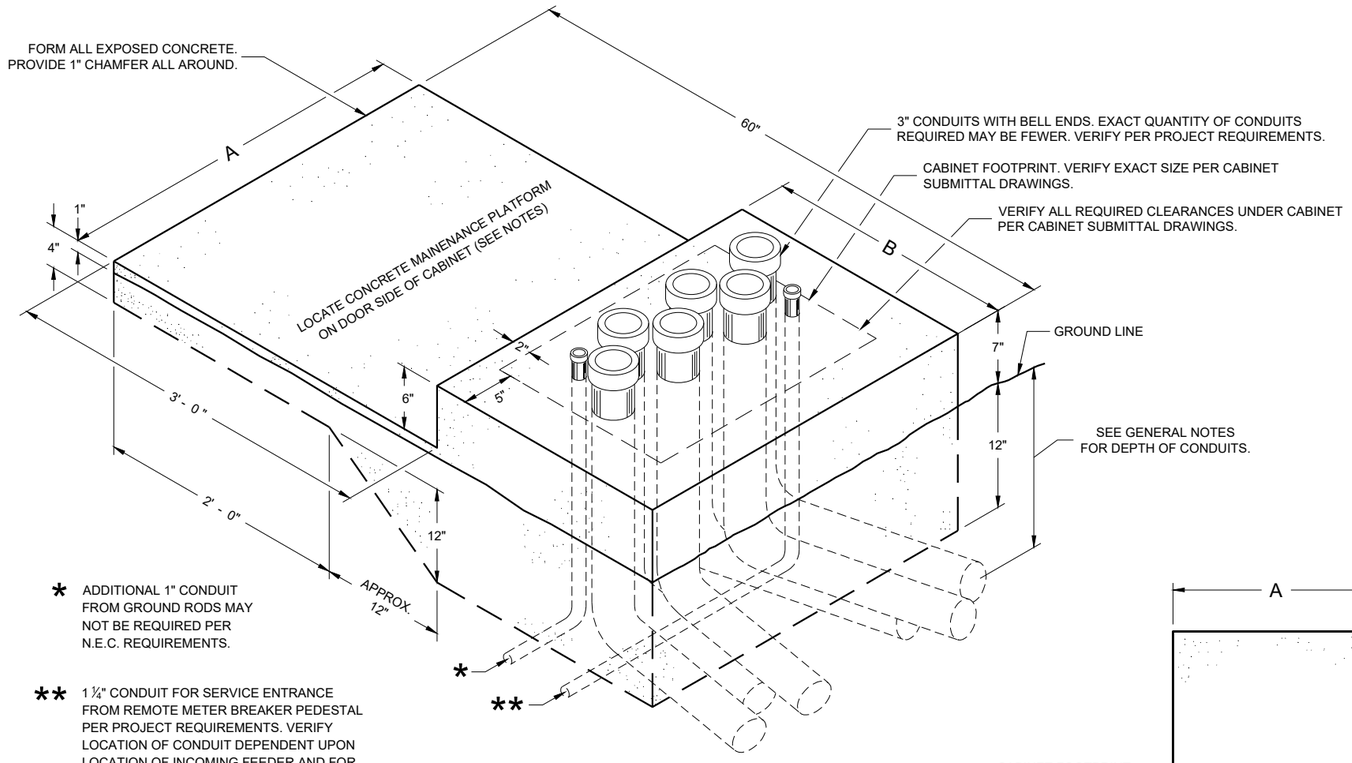


* ADDITIONAL 1" CONDUIT FROM GROUND RODS MAY NOT BE REQUIRED PER N.E.C. REQUIREMENTS.

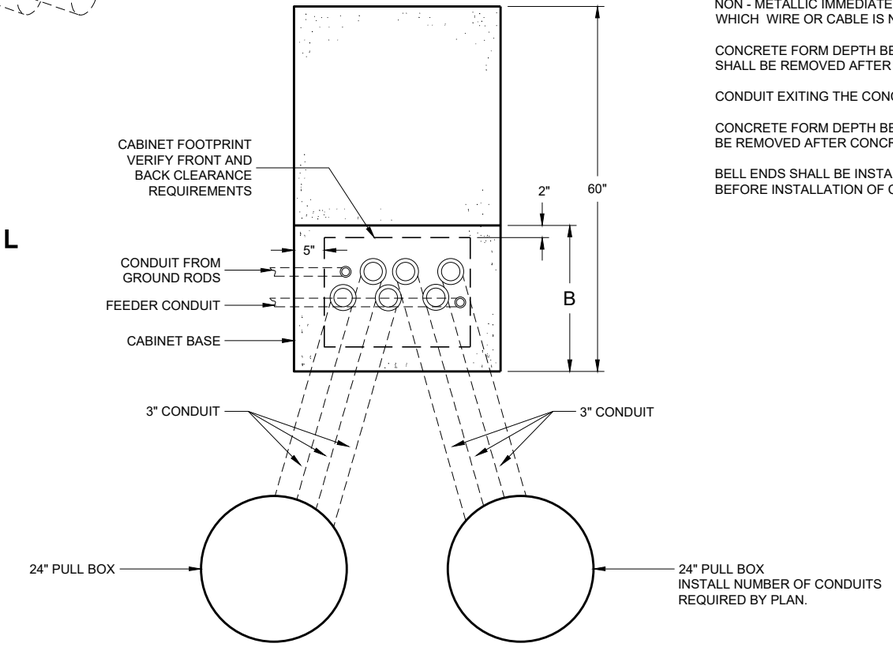
** 1 ¼" CONDUIT FOR SERVICE ENTRANCE FROM REMOTE METER BREAKER PEDESTAL PER PROJECT REQUIREMENTS. VERIFY LOCATION OF CONDUIT DEPENDENT UPON LOCATION OF INCOMING FEEDER AND FOR EASE OF CONNECTION TO LOAD CENTER.

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 345

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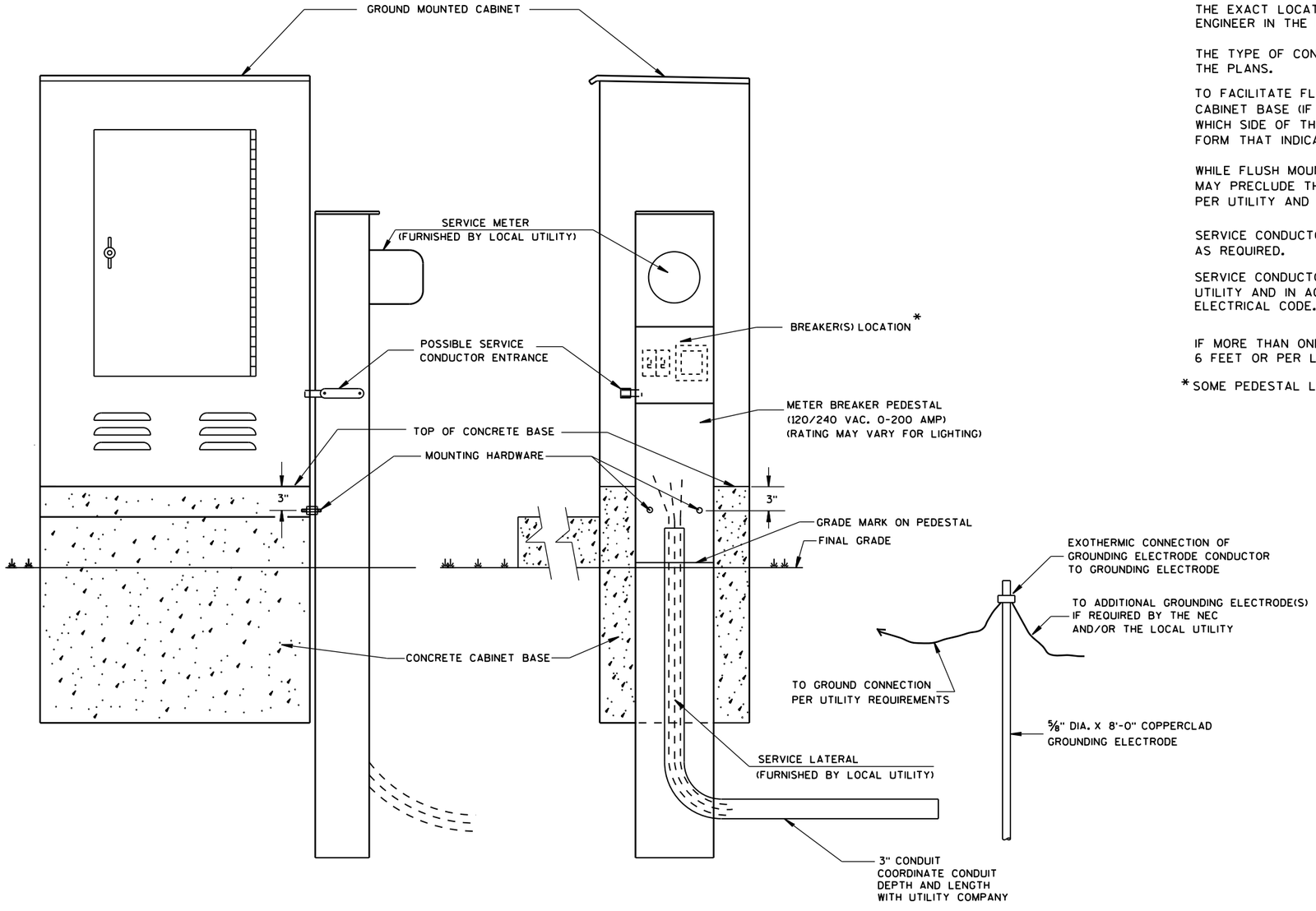

TYPICAL CABINET SERVICE INSTALLATION

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.

CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
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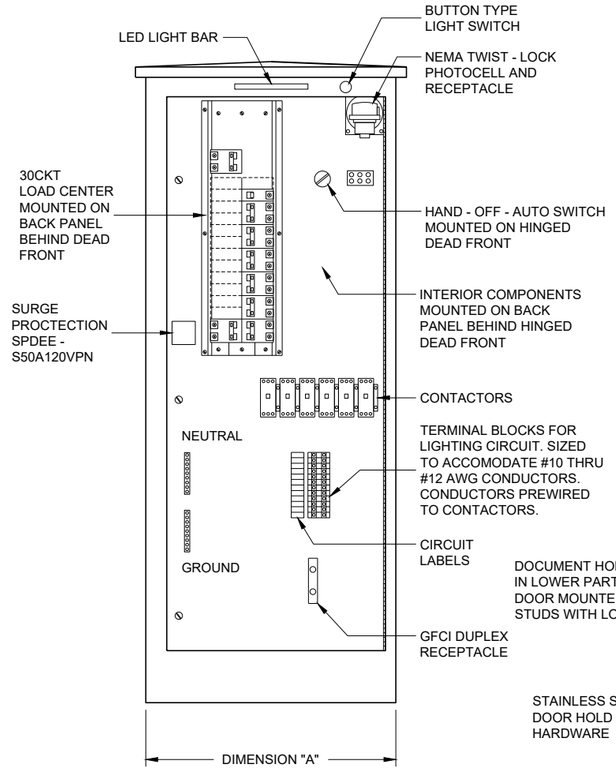
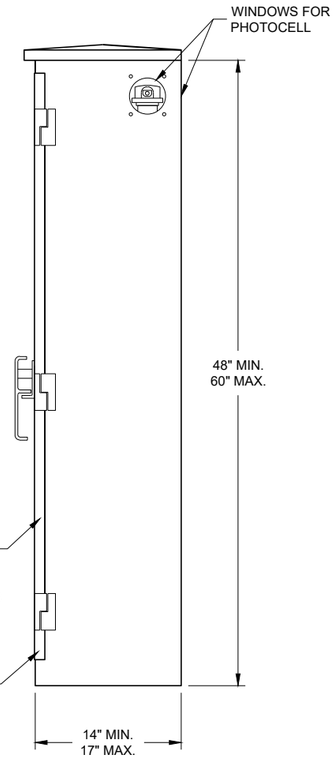
FRONT INTERIOR ELEVATION



SIDE VIEW



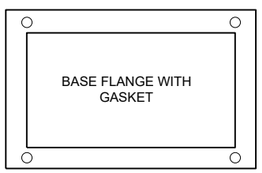
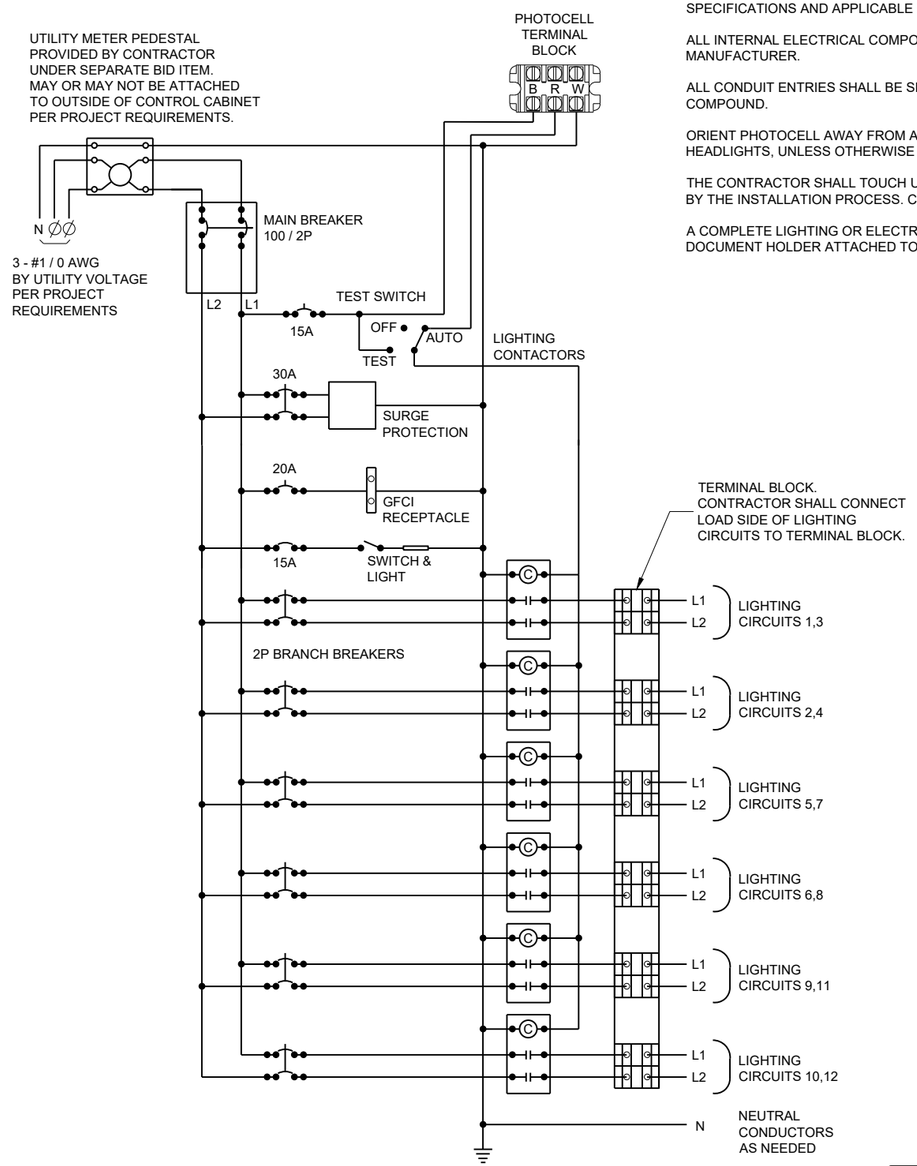


TABLE OF DIMENSIONS (INCHES)		
CONCRETE BASE TYPE	CABINET WIDTH	DIMENSION "A"
L24	24"	24"
L30	30"	30"

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 347

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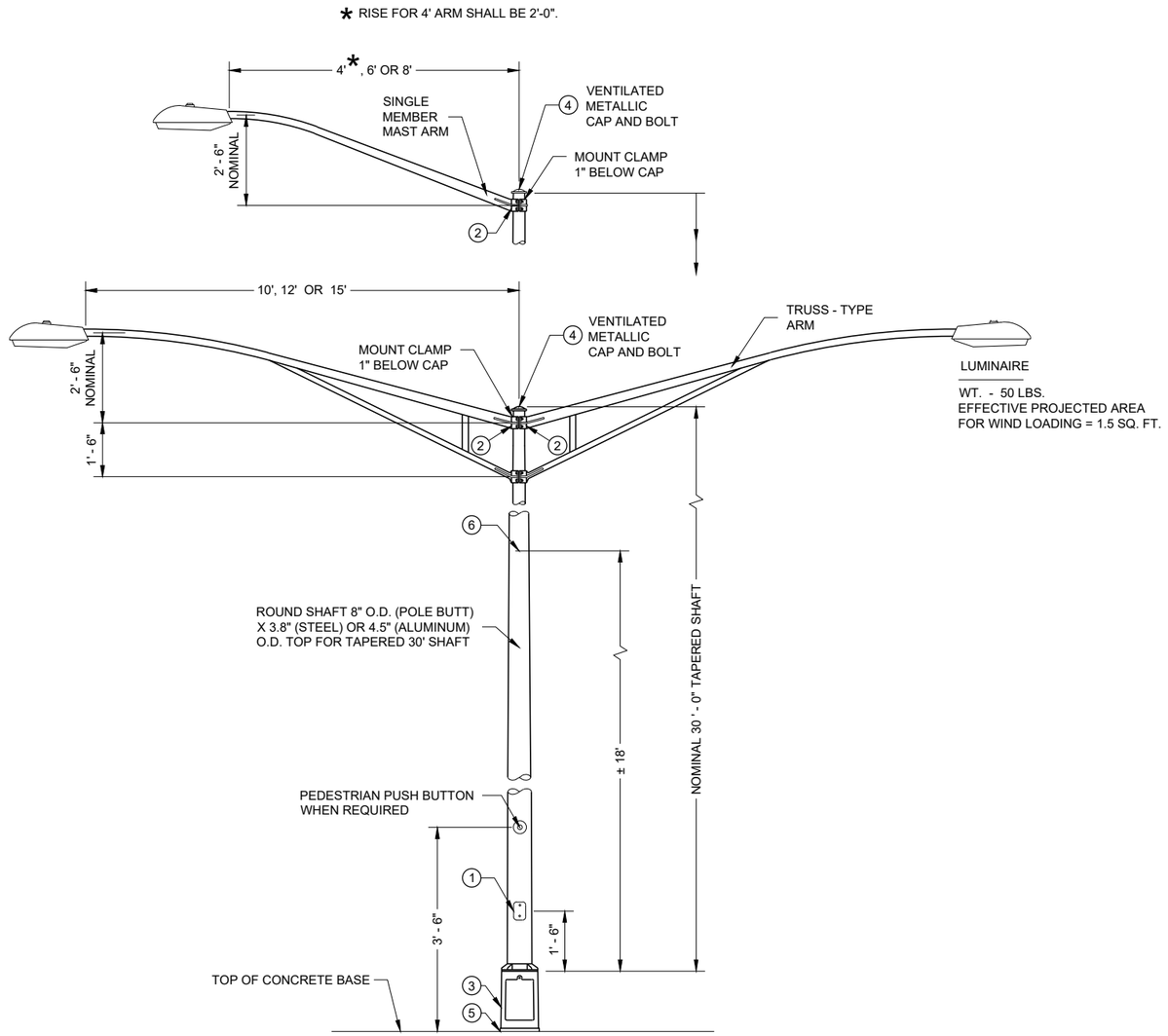


TYPE 5 POLE MOUNTING CONFIGURATION
(MAXIMUM LOAD)
LIGHTING ONLY

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.

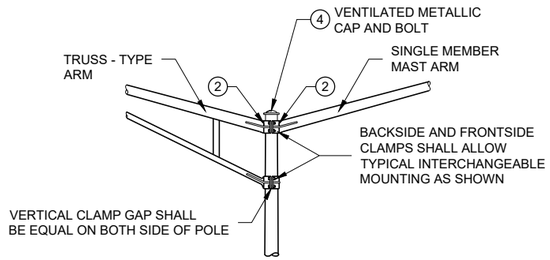
(2) GROMMETS. 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 ⅜" HOLE IN POLE SHAFT FOR WIRING.

(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.

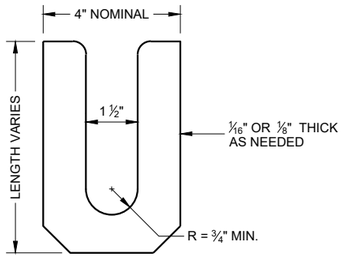
(5) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND POLE.

(6) INTERNAL DUMBBELL - TYPE VIBRATION DAMPER.

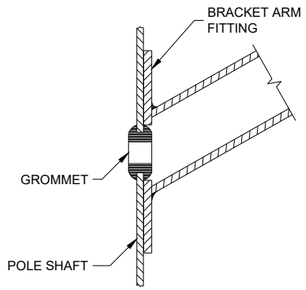


INTERCHANGEABLE MOUNTING DETAIL

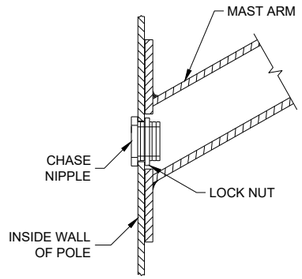
POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)



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.

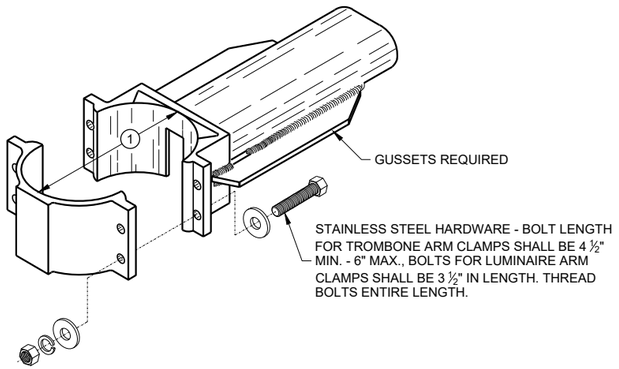
(1) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP. 6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

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

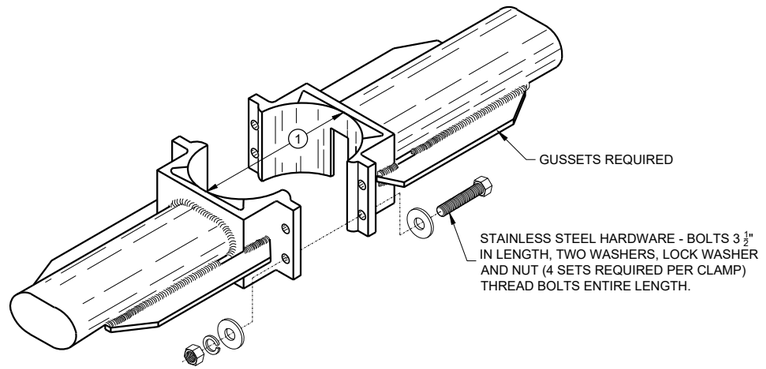
(3) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

(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.

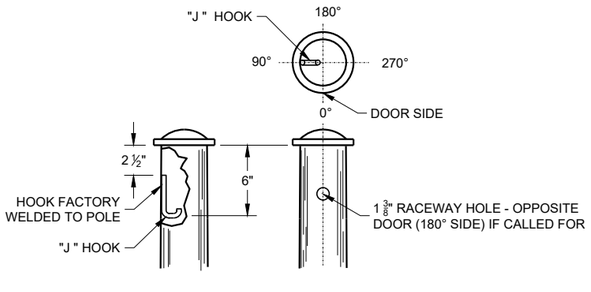
SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



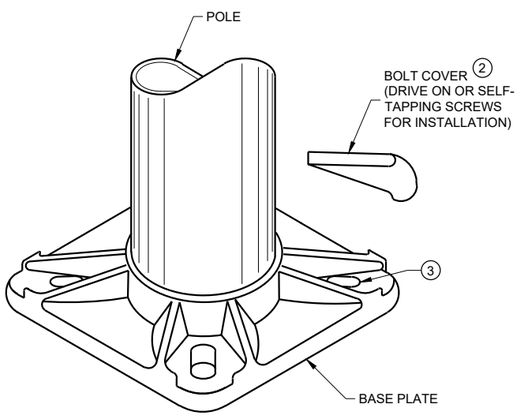
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



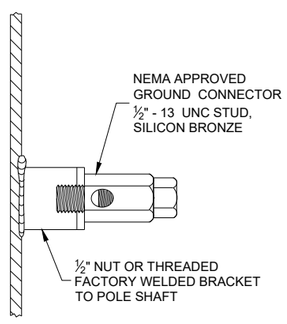
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

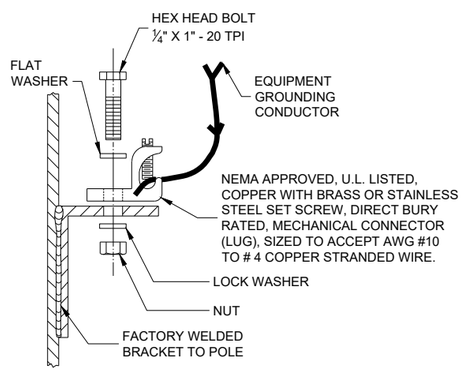


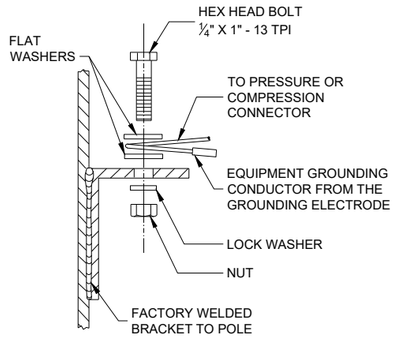
TYPICAL "J" HOOK LOCATION



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 349

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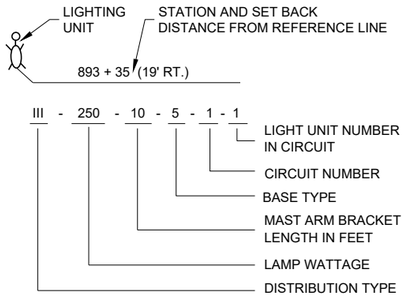
GENERAL NOTES

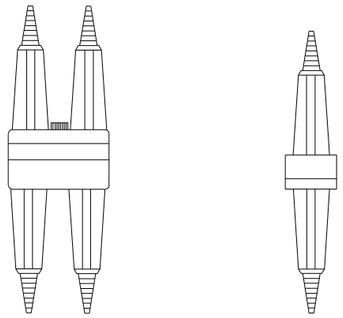
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

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.

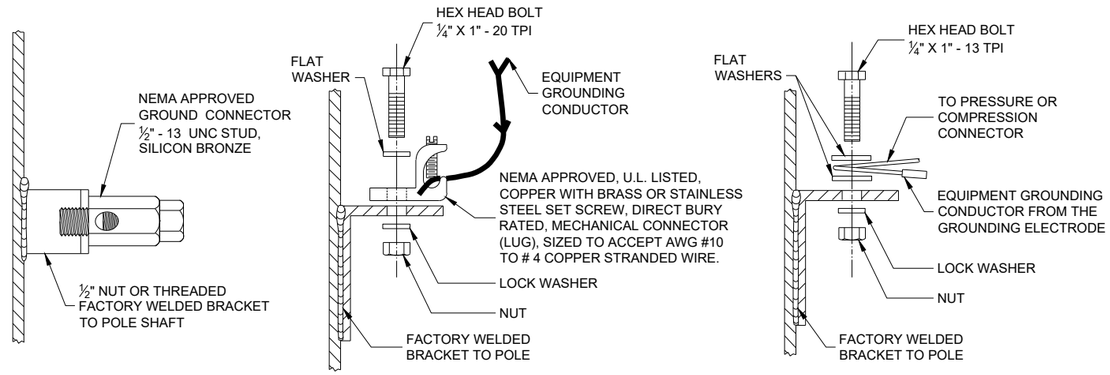


LIGHTING UNIT CODE
(TYPICAL)

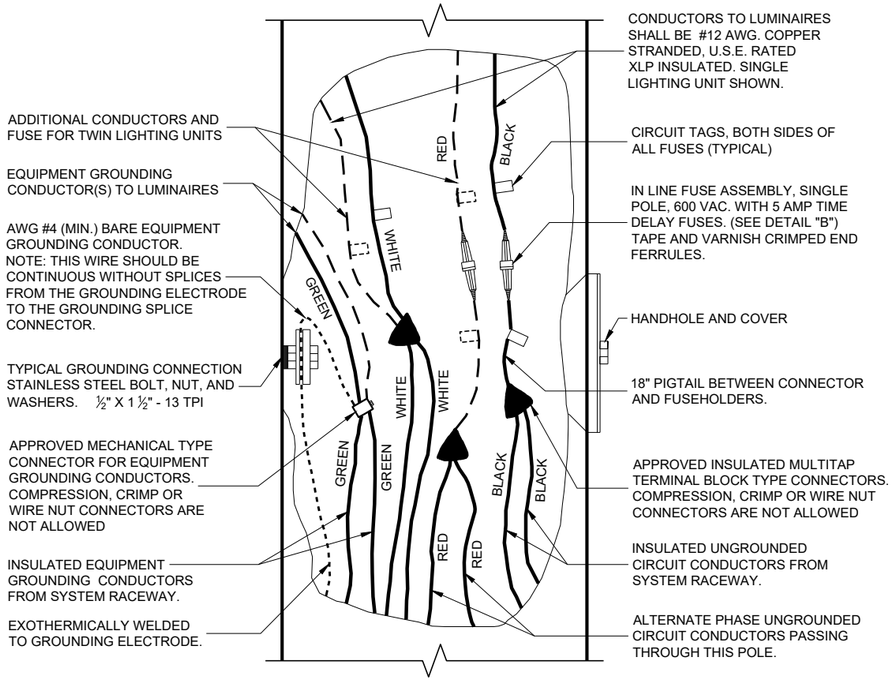


DETAIL "A"
BREAKAWAY DOUBLE POLE WITH WATERPROOF INSULATING BOOT

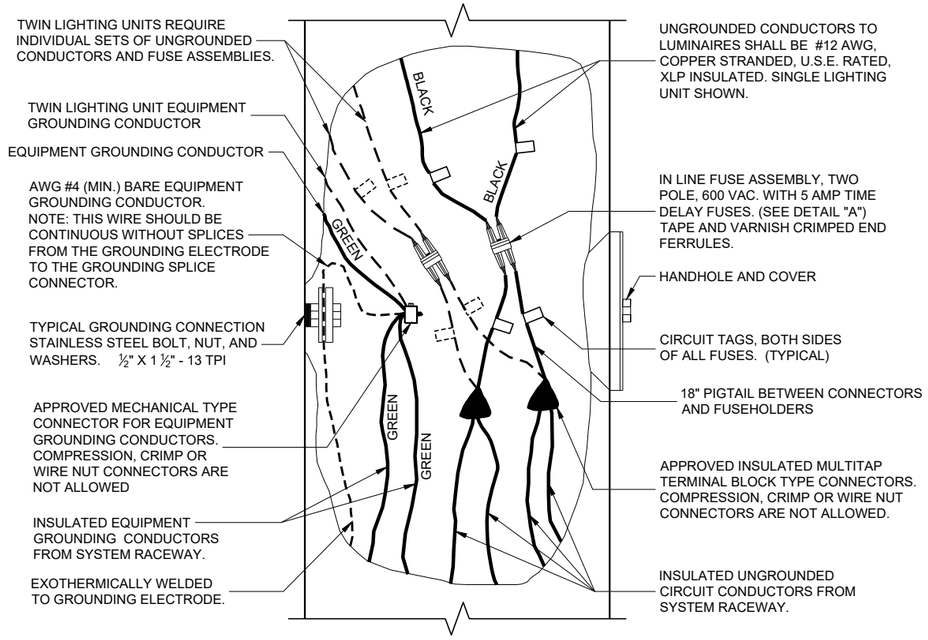
DETAIL "B"
BREAKAWAY SINGLE POLE WITH WATERPROOF INSULATING BOOT



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 350

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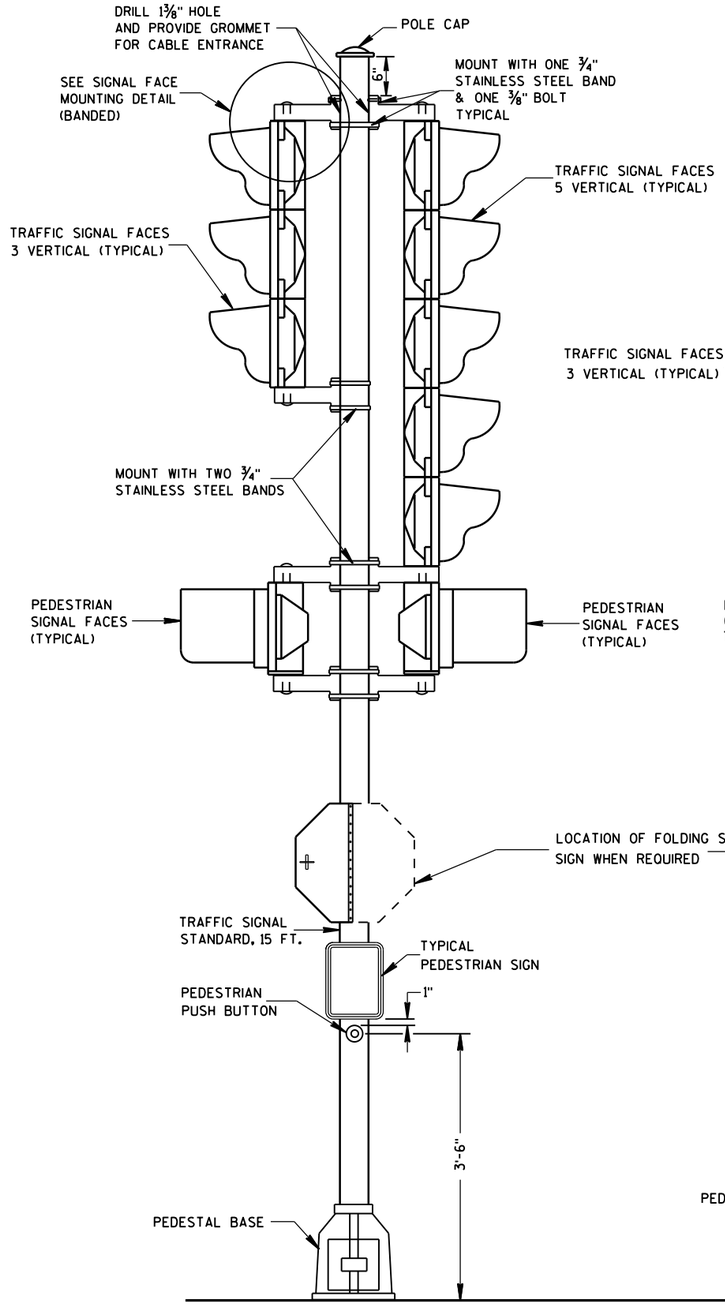
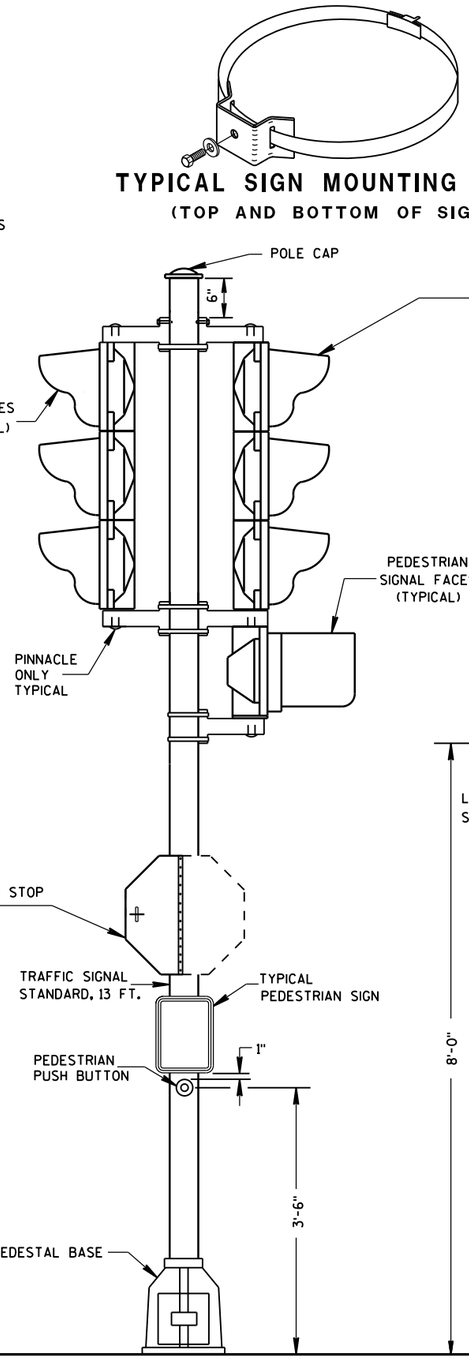
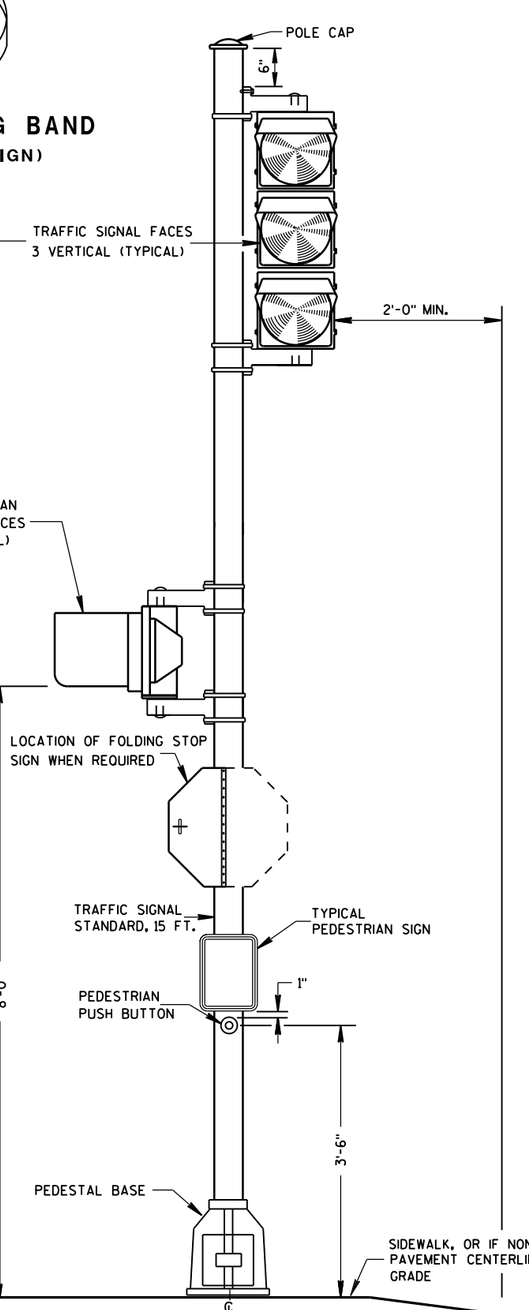


TRAFFIC SIGNAL STANDARD-15 FT.



TRAFFIC SIGNAL STANDARD-13 FT.

TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



TRAFFIC SIGNAL STANDARD-15 FT.
3M MOUNTING (TYPICAL)

GENERAL NOTES

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

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIAL PROVISIONS.

POLYCARBONATE MOUNTING BRACKETS SHALL BE USED.

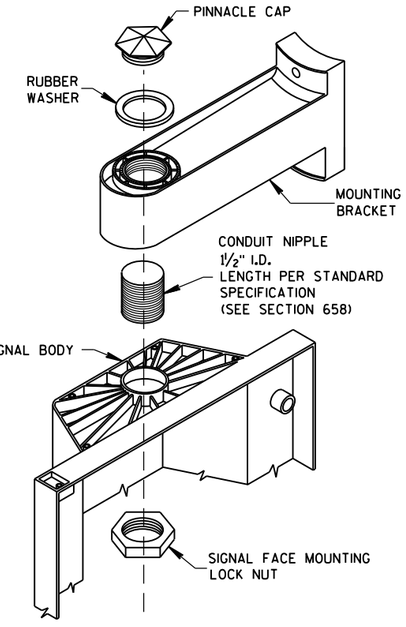
LENGTH AND LOCATION OF TRAFFIC SIGNAL STANDARDS SHALL BE AS SHOWN ON THE PLANS.

OPTICALLY PROGRAMMED SIGNAL FACES SHALL BE MASKED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS, AND UNDER THE DIRECTIONS OF THE REGION TRAFFIC ENGINEER.

FOLDING STOP SIGNS SHALL BE IN ACCORDANCE WITH THE MUTCD AND/OR THE LATEST WISCONSIN SUPPLEMENT. THE SIGNS SHALL BE SIZED AND LOCATED AS CALLED FOR IN IN THE PLANS.

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

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



SIGNAL FACE MOUNTING DETAIL
(BANDED)

TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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2/28/2013 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
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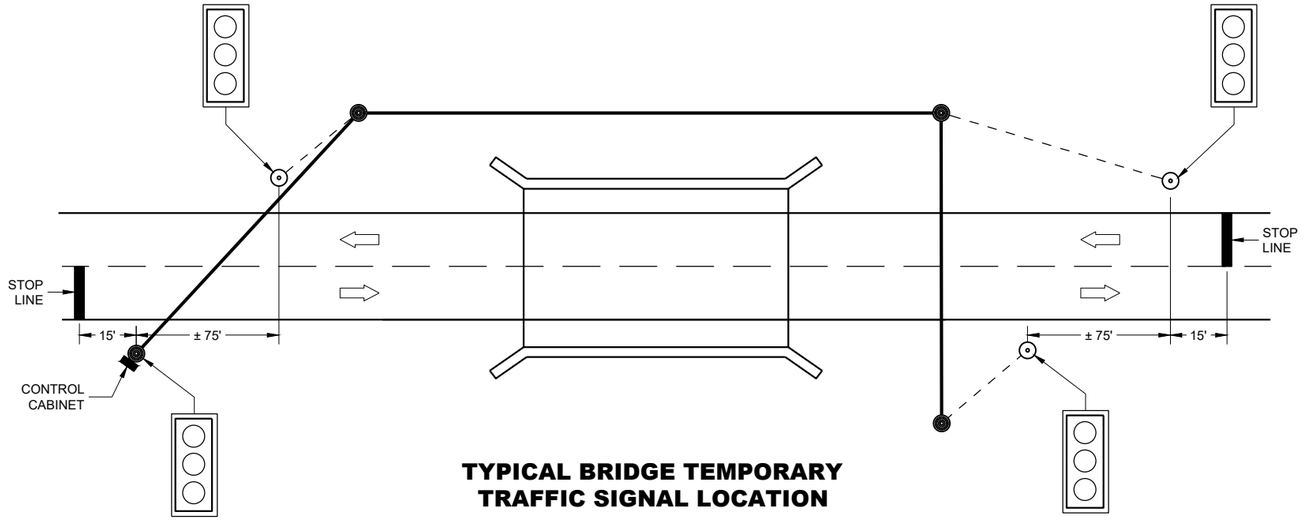


TYPICAL BRIDGE TEMPORARY TRAFFIC SIGNAL LOCATION

LEGEND

- WOOD POLE (NON-BREAKAWAY)
- WOOD POST (BREADAWAY)
- SIGNAL CABLE
- SIGNAL CABLE W/MESSENGER
- DIRECTION OF TRAFFIC
- LED TRAFFIC SIGNAL WITH BACKPLATE (3-12")

GENERAL NOTES

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

POLE MOUNTED TRAFFIC SIGNAL CONTROL CABINET MAY BE MOUNTED ON THE SERVICE POLE IF THE ELECTRICAL UTILITY ALLOWS THE INSTALLATION.

WHEN UTILITY POLES ARE USED TO SPAN THE TEMPORARY OVERHEAD CABLE, WRITTEN PERMISSION MUST BE OBTAINED FROM THE OWNER OF THE POLES AND GIVEN TO THE PROJECT MANAGER. ALL PERTINENT UTILITY AND CODE CLEARANCES SHALL BE MAINTAINED.

WOOD POLES (NON-BREAKAWAY) SHALL BE NO CLOSER TO EDGE OF PAVEMENT THAN OFFSET DISTANCE CHART ALLOWS OR 4 FEET BEHIND PROTECTIVE BARRIER (BEAM GUARD, ETC.).

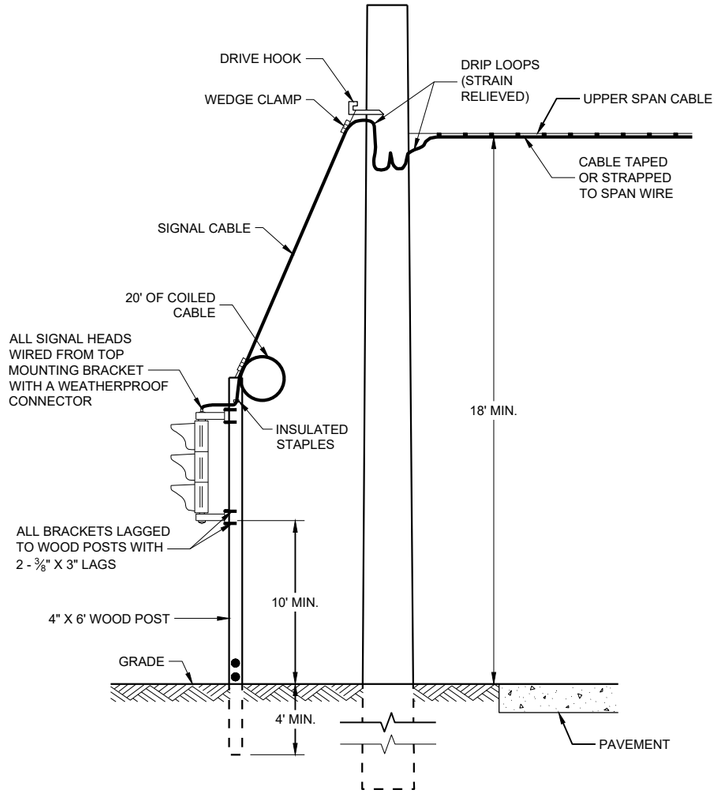
WOOD POSTS (BREAKAWAY) SHALL BE NO CLOSER THAN 2 FEET OUTSIDE OF SHOULDER.

VERTICAL CLEARANCE ETC. PER NEC.

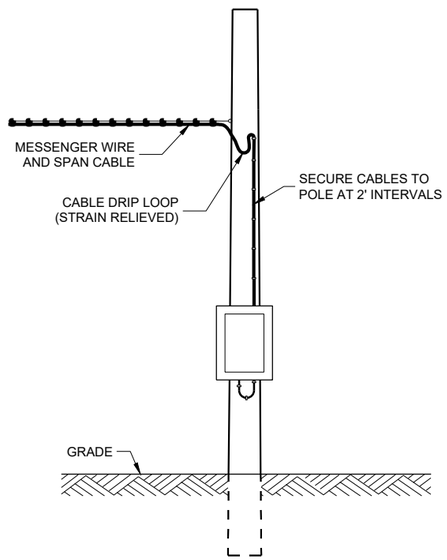
TRAFFIC SIGNAL FACES SHALL BE TYPICALLY PLACED 12 FEET FROM EDGE OF PAVEMENT.

EACH TRAFFIC SIGNAL SHALL HAVE A BACKPLATE.

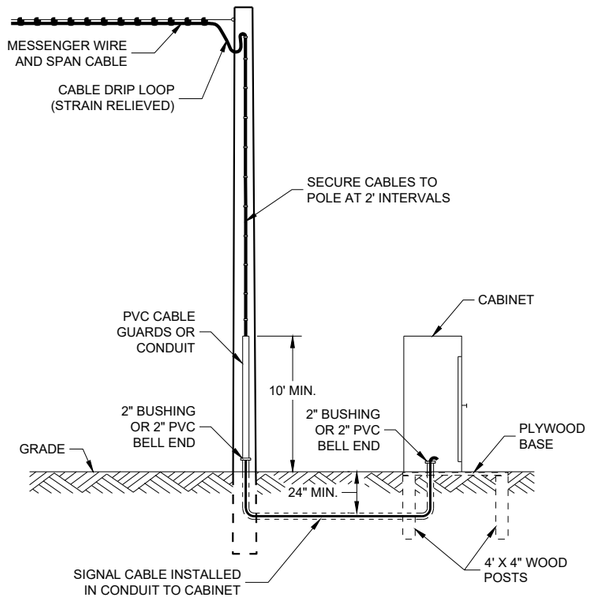
SIGNING, PAVEMENT MARKING AND LANE CONTROL REQUIREMENTS SHALL CONFORM TO STANDARD DETAIL DRAWING 15D33.



TYPICAL DROP TO TRAFFIC SIGNAL FACE



POLE MOUNT CABINET INSTALLATION



GROUND MOUNT CABINET INSTALLATION

MINIMUM POLE LENGTHS	CLASS	POLE BURIAL DEPTHS
25'	V	5'
30'	V	6'
35'	IV	7'
40'	IV	8'
45'	IV	9'

OFFSET DISTANCES FOR TEMPORARY NON-BREAKAWAY POLES	
SPEED LIMIT	OFFSET DISTANCE*
GREATER THAN 45 MPH	18 FT
45 MPH OR LESS	12 FT
45 MPH OR LESS W/CURBS	2 FT

* NOTE: OFFSET MEASURED FROM OUTER EDGE OF OUTSIDE THRU LANE.

BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Ahmet Demirbilek — ROADWAY STANDARDS DEVE ENGINEER

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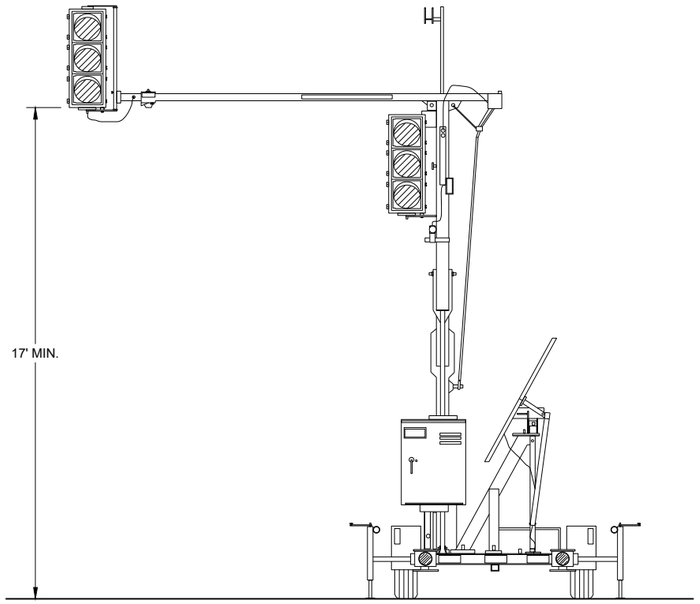
SDD09G02 - 05a

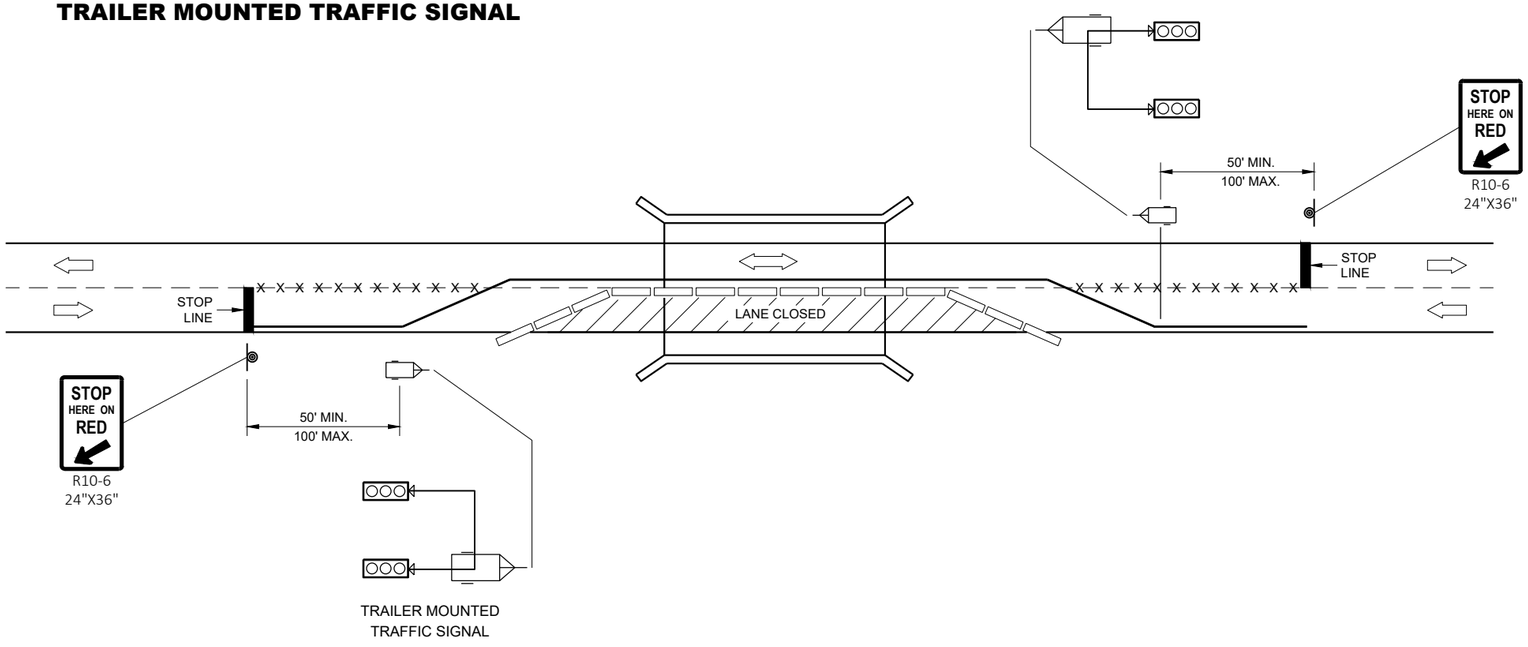


TRAILER MOUNTED TRAFFIC SIGNAL

GENERAL NOTES

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

SIGNING, PAVEMENT MARKING AND LANE CONTROL REQUIREMENTS SHALL CONFORM TO STANDARD DETAIL DRAWING 15D33.



TYPICAL TRAILER MOUNTED TRAFFIC SIGNAL LOCATION

LEGEND

- POST MOUNTED SIGN
- TEMPORARY PRECAST CONCRETE BARRIER
- TRAILER MOUNTED TRAFFIC SIGNAL
- REMOVE PAVEMENT MARKINGS
- DIRECTION OF TRAFFIC

BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2015
DATE

/S/ Ahmet Demerbilek
ROADWAY STANDARDS DEVE ENGINEER

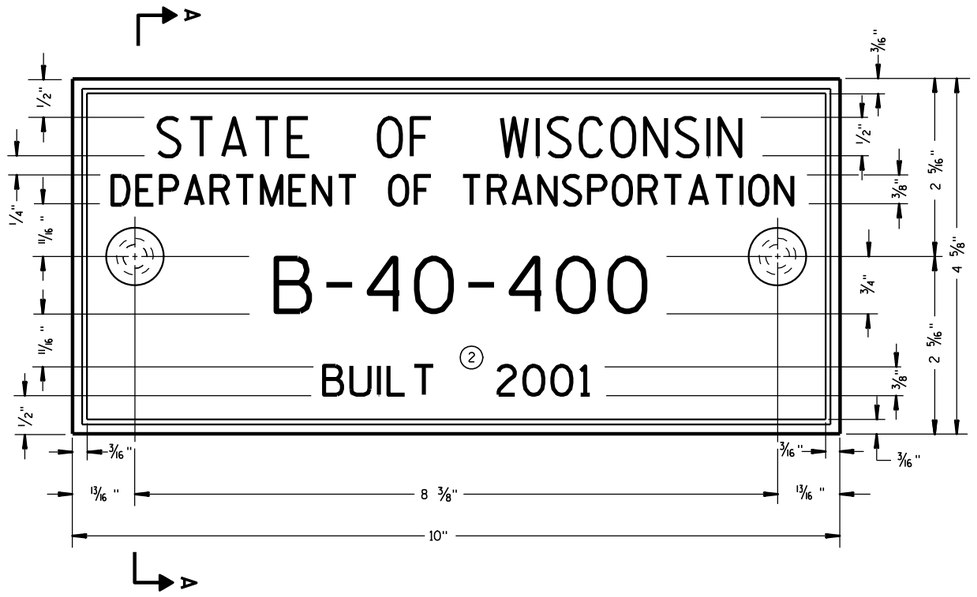
FHWA

6

SDD09G02 - 05c

6

SDD09G02 - 05c



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

FOR MULTI-UNIT STRUCTURES
LINE 3 ABOVE SHALL READ

B = BRIDGE
C = CULVERT
R = RETAINING WALL

COUNTY NO.

BRIDGE NO.

UNIT NO. FOR MULTIPLE UNIT BRIDGE

B-40-400-1A

NUMBERING DESIGNATION
MULTI-UNIT STRUCTURES

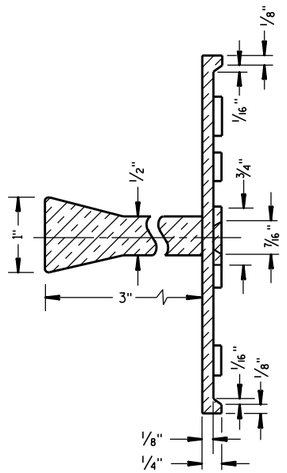
GENERAL NOTES

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.

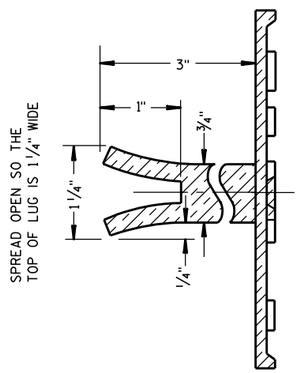
THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

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

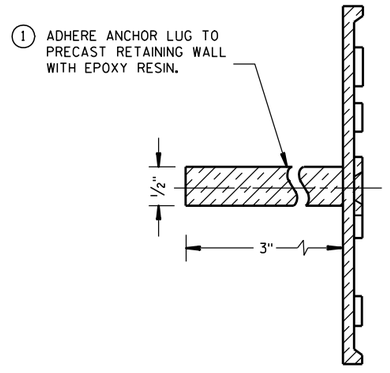
(2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



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

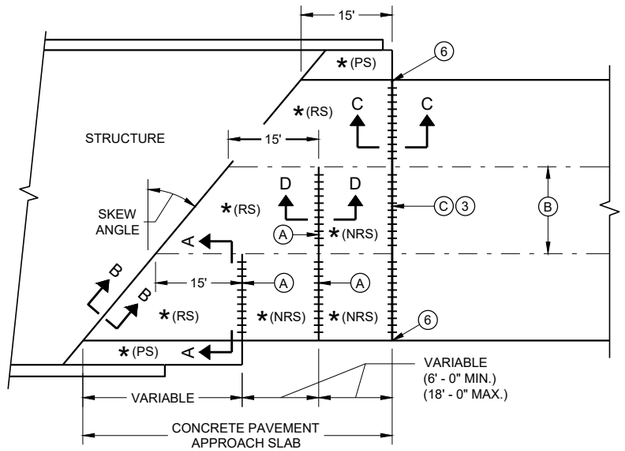
FHWA

6

S.D.D. 12 A 3-10

6

S.D.D. 12 A 3-10



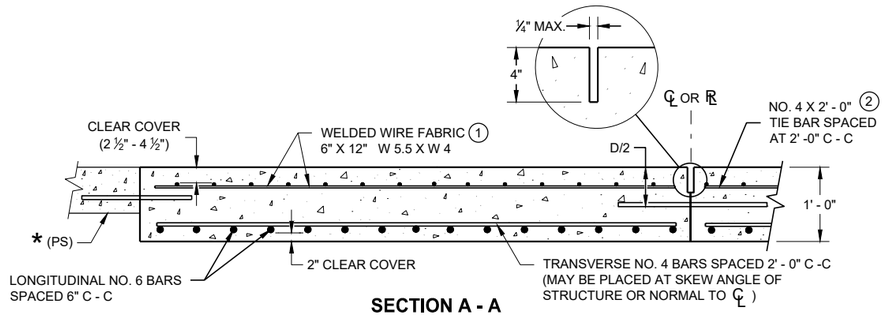
SKEWED APPROACH
(PAVEMENT MORE THAN TWO LANES)

(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.

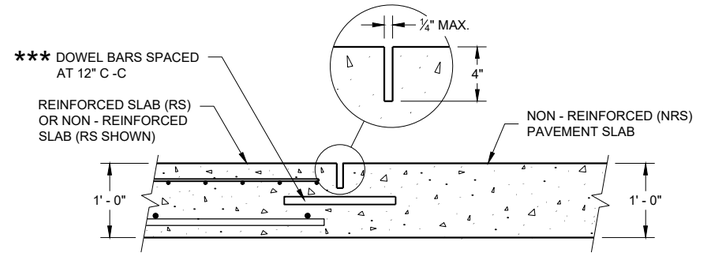
(5) PLACE EXPANSION CAP ON THE END OF THE DOWEL THAT IS NOT TACK WELDED TO THE BASKET. DO NOT FORCE DOWEL BAR PAST THE DOWEL STOP.

(6) EXTEND EXPANSION JOINT THROUGH ANY ADJACENT TIED CONCRETE.

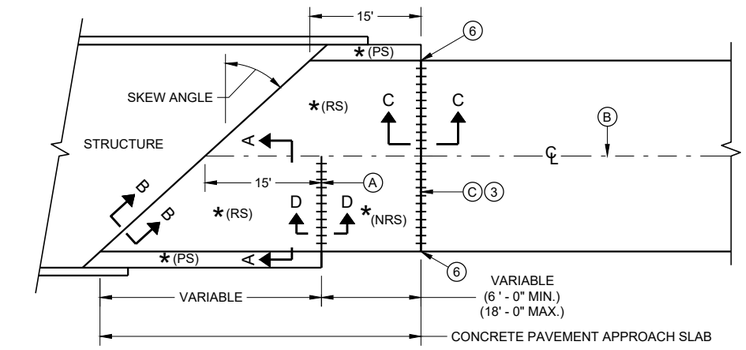
(A) STANDARD CONTRACTION JOINT NORMAL TO ℄ OR ℞.

(B) STANDARD LONGITUDINAL JOINT WITH TIE BARS.

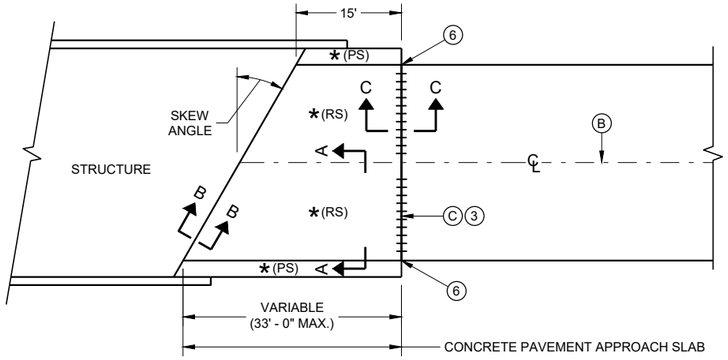
(C) 1 ½" EXPANSION JOINT WITH DOWEL BARS NORMAL TO ℄ OR ℞ .



SECTION D - D
CONTRACTION JOINT

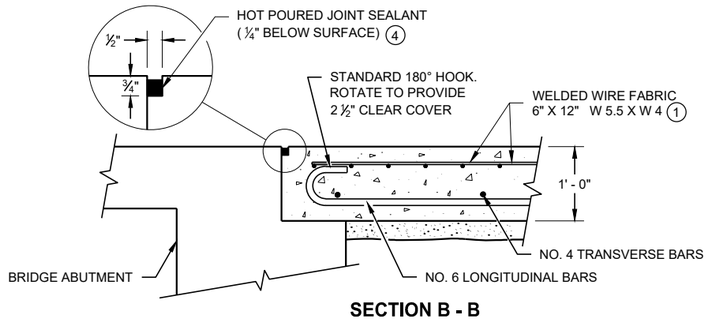


SKEWS > 20°
(PAVEMENT WIDTH ≤ 30')

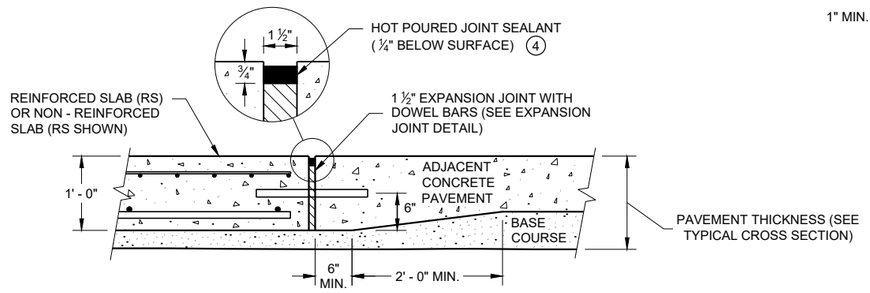


SKEWS ≤ 20°
(PAVEMENT WIDTH ≤ 30')

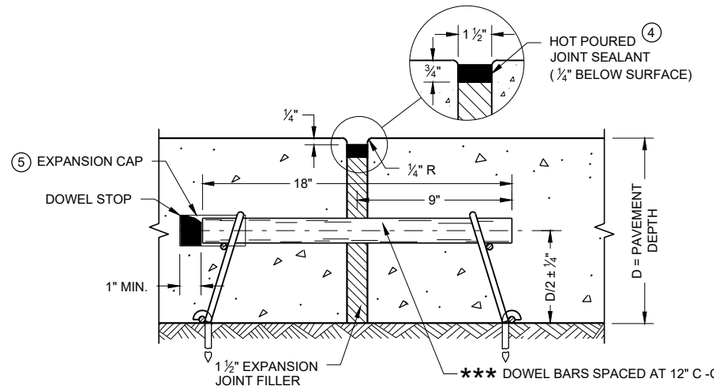
APPROACH SLAB AND ADJACENT PAVEMENT



SECTION B - B
BEND DETAIL
BOTTOM REINFORCEMENT



SECTION C - C
TRANSITION DETAIL
APPROACH SLAB TO ADJACENT PAVEMENT



EXPANSION JOINT DETAIL

CONCRETE PAVEMENT APPROACH SLAB

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

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

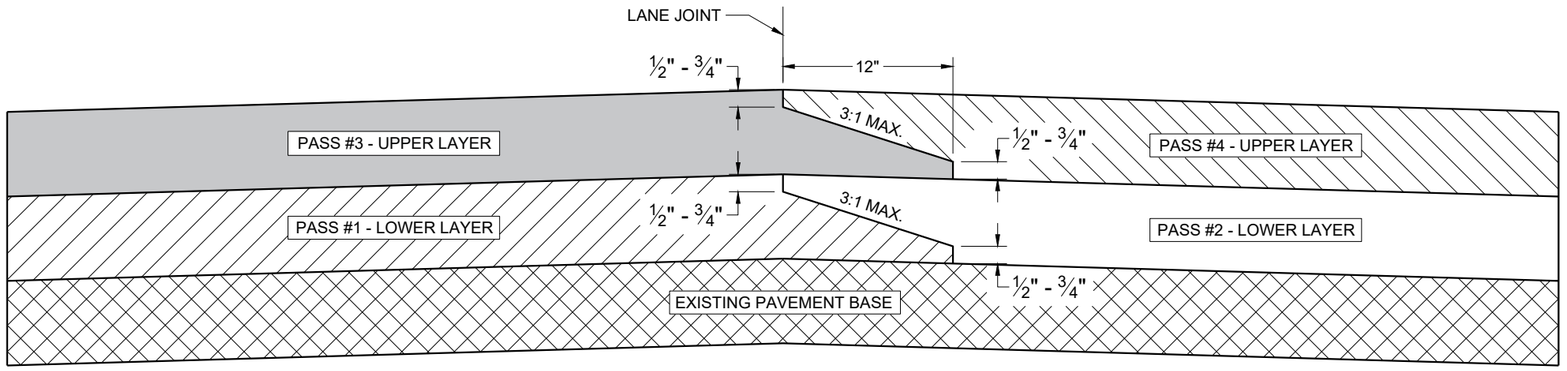
FHWA

6

SDD 13B02 - 09a

GENERAL NOTES

CONFORM TO STANDARD SPECIFICATION 450.3.2.8



TYPICAL PAVEMENT CROSS SECTION
OF NOTCHED WEDGE LONGITUDINAL JOINTS

6

6

SDD 13C19 - 01

SDD 13C19 - 01

HMA LONGITUDINAL JOINTS

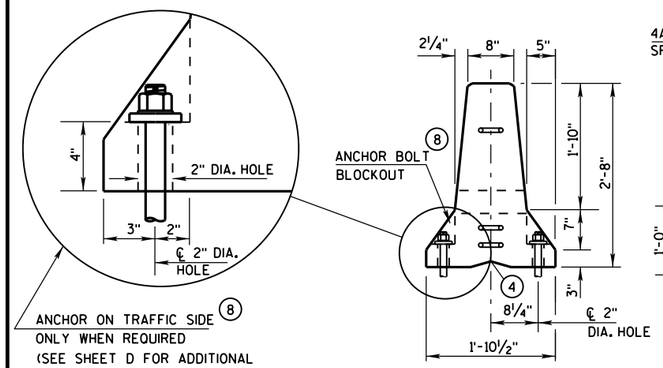
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE

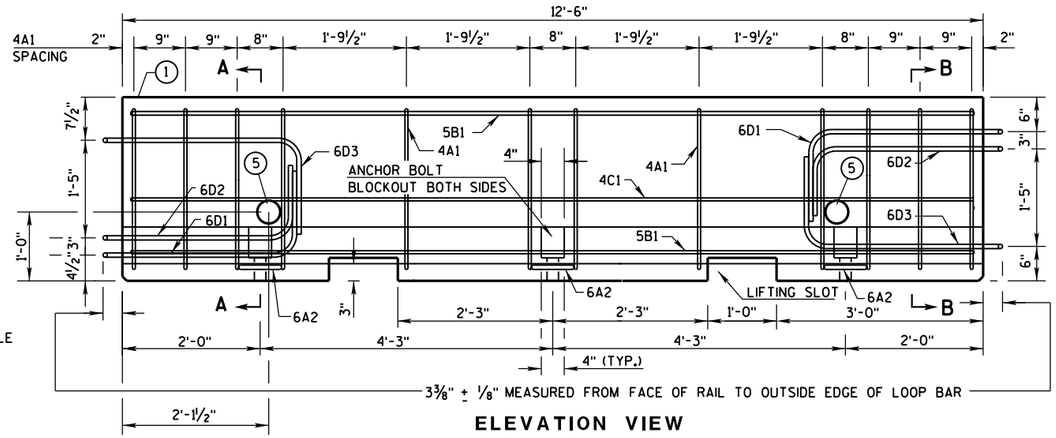
/S/ Steven Hefel
HMA PAVEMENT ENGIN

356

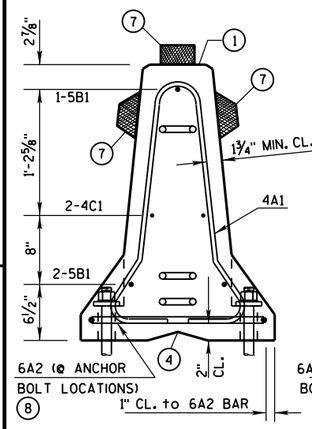
FHWA



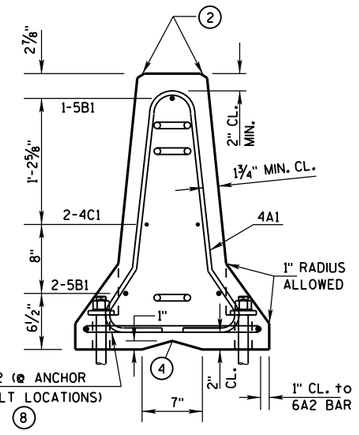
END VIEW



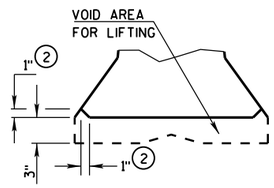
ELEVATION VIEW



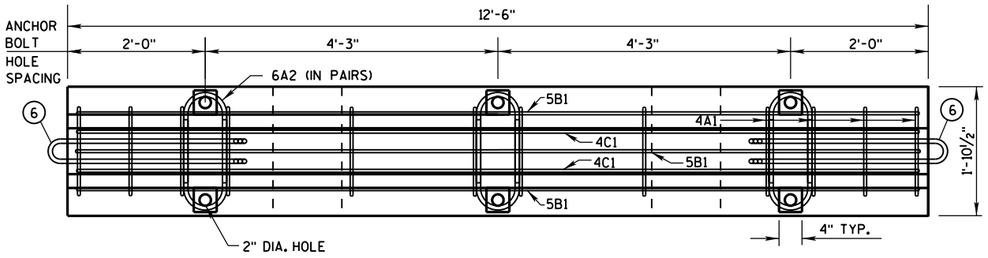
SECTION A-A
(STIRRUP PLACEMENT)



SECTION B-B
(STIRRUP PLACEMENT)

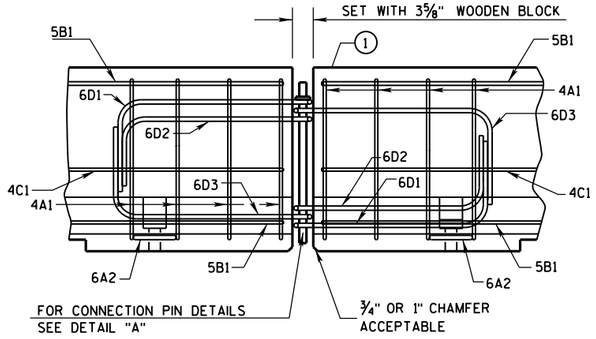


DETAIL "B"
LIFTING SLOT DETAIL

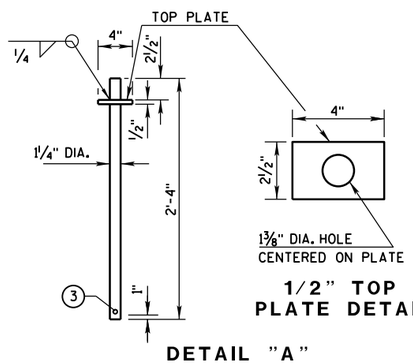


PLAN VIEW

DETAILS OF BARRIER SECTION

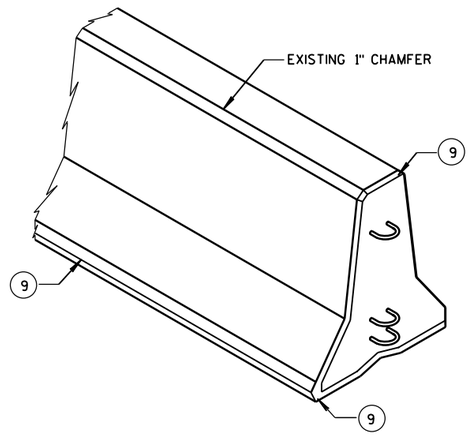


DETAILS OF BARRIER CONNECTION



1/2" TOP
PLATE DETAIL

DETAIL "A"
CONNECTION PIN
(A36 STEEL (10.9 LB EACH))



GENERAL NOTES

THESE GENERAL NOTES APPLY TO SHEETS 14B7-15(a) THRU 14B7-15(i).

DO NOT INTERMIX CONCRETE BARRIER TEMPORARY PRCAST, 12'-6" (CBTP12.5) WITH OTHER TEMPORARY CONCRETE BARRIERS.

USE ASTM A-615, GRADE 60, DEFORMED STEEL BARS FOR BARS 4A1, 6A2, 5B1 AND 4C1 IN THE BARRIER SECTION AND FOR 4V1, 4V2, 4V3, 4V4, 4V5, 4V6, 4F1, 4F2 AND 5F3 IN THE BARRIER TAPER SECTION.

LOOP BARS 6D1, 6D2 AND 6D3 SHALL BE ¾" SMOOTH STEEL BARS WITH A MINIMUM YIELD STRENGTH OF 60 KSI, A TENSILE STRENGTH OF NOT LESS THAN 1.25 TIMES THE YIELD STRENGTH BUT A MINIMUM OF 80 KSI, A MINIMUM 14% ELONGATION IN 8 INCHES AND PASSING A 180 DEGREE BEND TEST USING A 3-½" PIN BEND DIAMETER FOR BEND TESTS. THE LOOPS SHALL BE INSTALLED WITHIN ⅛" OF THE PLAN DIMENSION.

CONSTRUCT LIFTING SLOTS AS SPECIFIED ON THE PLANS TO FACILITATE THE DRAINAGE OF WATER AFTER INSTALLATION.

PLACE BARRIER ON A PAVED SURFACE. REMOVE ALL LOOSE DIRT AND SAND FROM THE ROADWAY SURFACE PRIOR TO PLACEMENT OF THE BARRIER.

INSTALL MECHANICAL OR ADHESIVE ANCHORS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MANUFACTURER'S INFORMATION TO PROJECT ENGINEER.

(1) MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
- a. TYPE: WI CBTP
- b. MANUFACTURER
- c. DATE MANUFACTURED (MONTH AND YEAR)

(2) 1" CHAMFER TO PREVENT SPALLING.

(3) A ⅜" HOLE IN THE CONNECTION PIN, AT THE LOCATION SHOWN, IS ACCEPTABLE, BUT NOT REQUIRED..

(4) "V" NOTCH IS OPTIONAL.

(5) THE 4" DIAMETER, 11 GAUGE STEEL, ROUND MECHANICAL TUBING SLEEVE FOR LIFTING (OPTIONAL).

(6) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

(7) USE DELINEATORS CONFORMING TO SECTION 633 OF THE STANDARD SPECIFICATIONS. CONTRACTOR MAY USE ALTERNATE SHAPES AND HOUSING. INSTALL DELINEATORS ACCORDING TO MANUFACTURES INSTRUCTION. INSTALL YELLOW REFLECTORS WHEN BARRIER IS LOCATED TO THE LEFT OF TRAFFIC AND WHITE REFLECTORS WHEN BARRIER IS LOCATED TO THE RIGHT OF TRAFFIC. SPACE DELINEATORS A MAXIMUM OF 25 FEET APART. PROVIDE TOP MOUNTED DELINEATORS IN ADDITION TO THE SIDE MOUNTED DELINEATORS ON ALL BARRIER INSTALLATIONS LOCATED ON A CURVED ALIGNMENT LONGER THAN 200 FEET AND ON BARRIERS USED TO SEPARATE OPPOSING TRAFFIC.

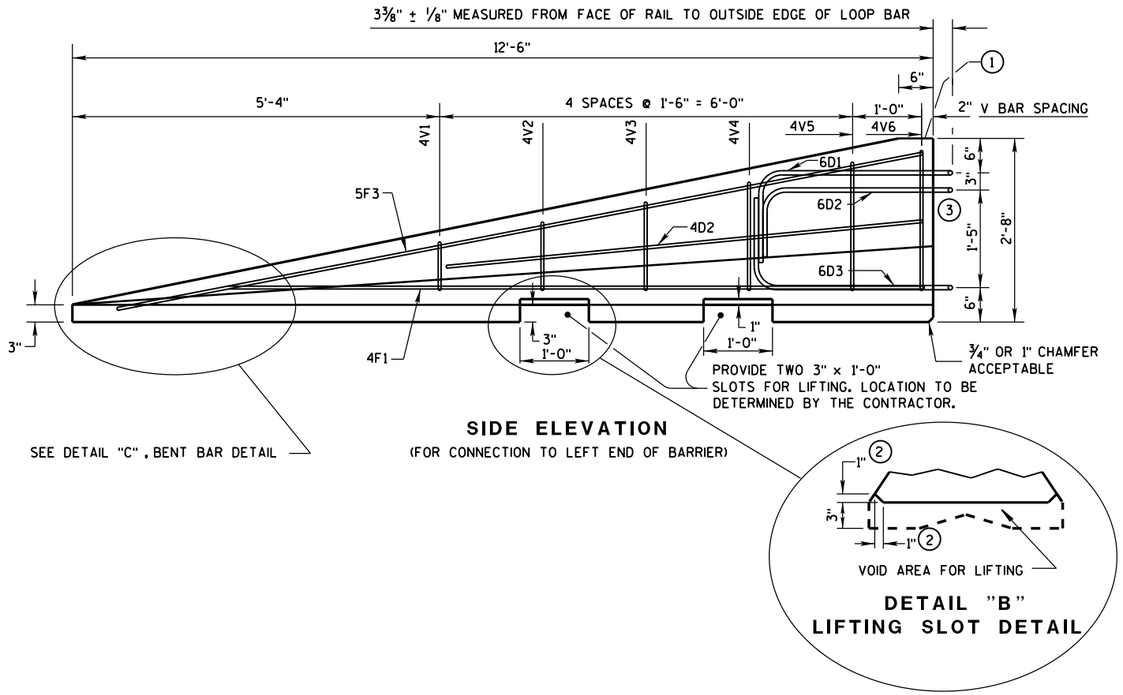
(8) SEE SHEET D FOR HOW TO ANCHOR BARRIER. SEE SHEET E FOR WHEN TO ANCHOR BARRIER.

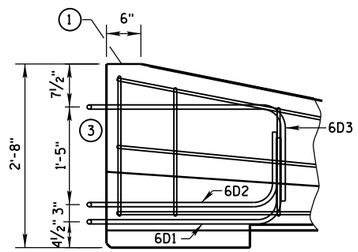
(9) 1" CHAMFER OPTIONAL.

f'c = 4,000 psi

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

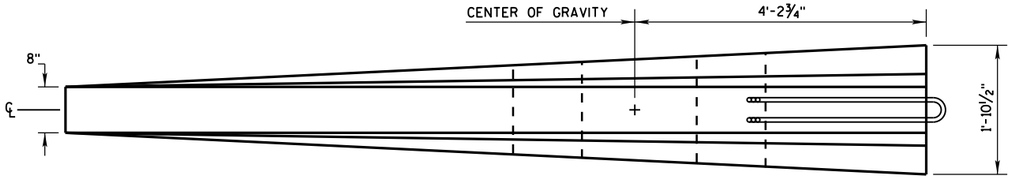
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 357

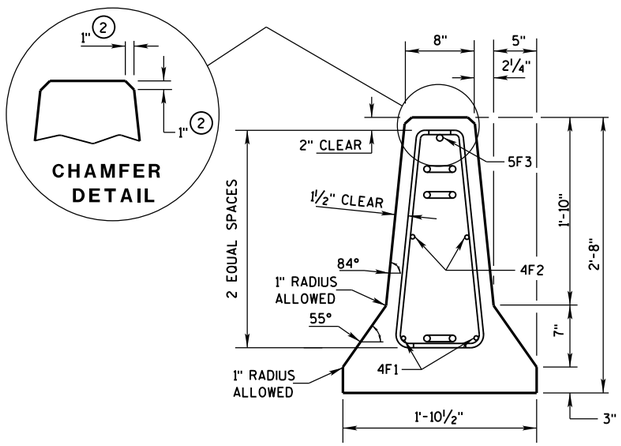


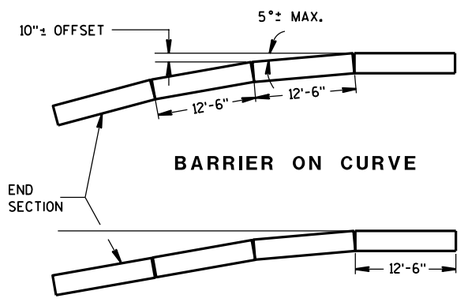


GENERAL NOTES

1. MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
   a. TYPE WICBTP
   b. MANUFACTURER
   c. DATE MANUFACTURED (MONTH AND YEAR)
2. 1" CHAMFER TO PREVENT SPALLING.
3. NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.







POSTED SPEED, (MPH)	FLARE RATE
40 OR LESS	6:1
45 OR GREATER	8:1

DETAILS OF BARRIER TAPER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

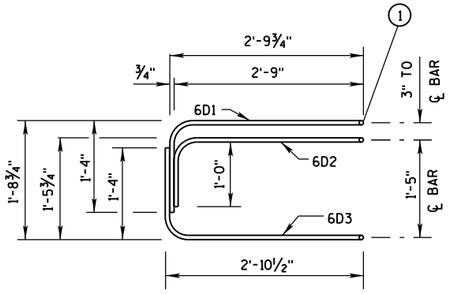
6

S.D.D. 14 B 7-15b

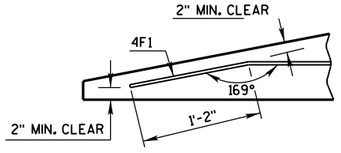
BARRIER TAPER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER TAPER SECTION)

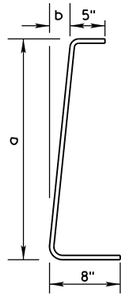
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4V1	4	2	1'-11"
4V2	4	2	2'-2"
4V3	4	2	2'-6"
4V4	4	2	2'-9"
4V5	4	2	3'-2"
4V6	4	2	3'-4"
4F1	4	2	12'-0"
4F2	4	2	7'-6"
5F3	5	1	11'-9"
LOOP ASSEMBLY			
6D1	6	1	8'-5"
6D2	6	1	7'-7"
6D3	6	1	8'-6"



ELEVATION
LOOP BAR ASSEMBLY



DETAIL "C"
BENT BAR DETAIL



BAR	a	b
V1	10"	1"
V2	1'-1"	1¼"
V3	1'-5"	1⅝"
V4	1'-8"	1⅞"
V5	2'-0½"	2⅜"
V6	2'-3"	2¾"

4V BARS
2 AT EACH SIZE REQUIRED
FOR STIRRUP ASSEMBLY

TAPER BARRIER SECTION

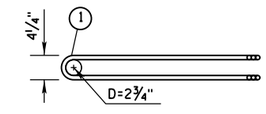
GENERAL NOTES

(1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

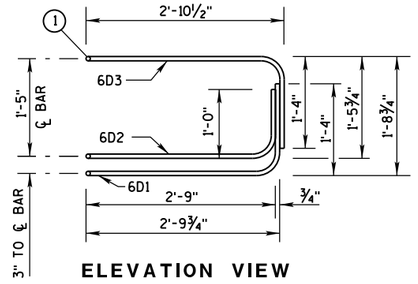
BARRIER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER SECTION)

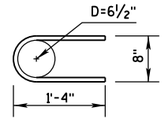
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4A1	4	12	6'-0"
6A2	6	6	2'-11"
5B1	5	3	12'-2"
4C1	4	2	12'-2"
LOOP ASSEMBLY			
6D1	6	2	8'-5"
6D2	6	2	7'-7"
6D3	6	2	8'-6"



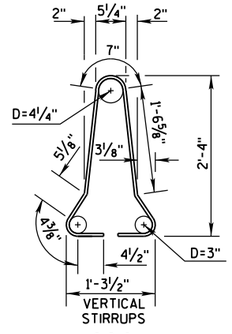
PLAN VIEW
LOOP BAR ASSEMBLY
(MARKED END SHOWN, INVERT FOR OTHER END)



ELEVATION VIEW



6A2



4A1

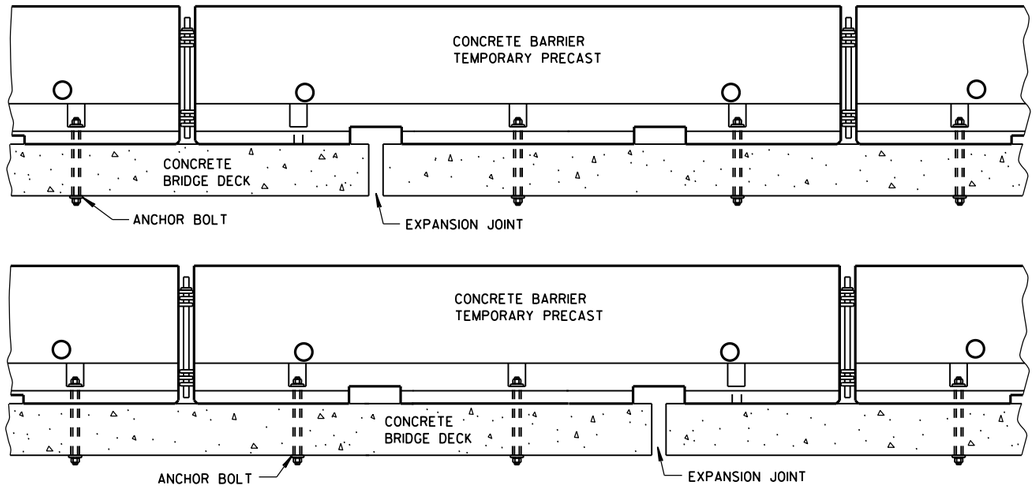
BARRIER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 14 B 7-15c



TREATMENT AT BRIDGE DECK EXPANSION JOINTS

(NO SINGLE CONCRETE BARRIER SECTION SHALL BE ANCHORED TO BOTH THE BRIDGE DECK AND THE APPROACH SLAB. ALL ANCHOR BOLT LOCATIONS SHALL BE ANCHORED TO THE DECK IN ACCORDANCE WITH THE DETAIL. NO MORE THAN ONE ANCHOR BOLT SHALL BE ELIMINATED FROM A BARRIER SECTION WHEN SPANNING AN EXPANSION JOINT.)

GENERAL NOTES

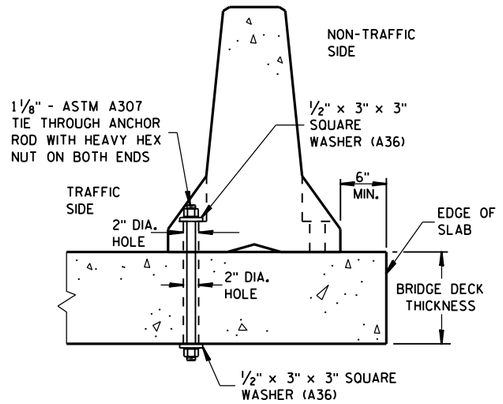
SEE SHEET E FOR WHEN TO ANCHOR. OTHER PARTS OF THE PLAN MAY SHOW ADDITIONAL LOCATIONS REQUIRING ANCHORING.

REMOVE ALL ANCHORS WHEN NO LONGER NEEDED. FILL CONCRETE PAVEMENTS, DECKS AND APPROACH SLABS WITH NON-SHRINK COMMERICAL GROUT FROM THE APPROVED PRODUCT LIST. FILL ASPHALT PAVEMENTS WITH ASTM D6690 TYPE II RUBBERIZED CRACK FILLER.

(1) 1⅛" DIAMENTER A307 THREADED ROD. ½" X 3" X 3" SQUARE PLATE WASHER WITH ASTM A36 STEEL. ASTM A563A HEAVY HEX NUT.

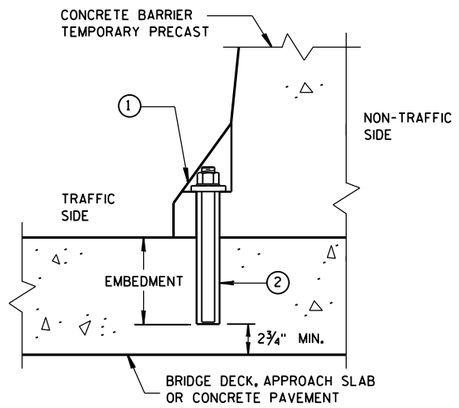
(2) ADHESIVE ANCHORS WITH A MINIMUM BOND STRENGTH OF 1,800 PSI AND 5¼" EMBEDMENT. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.

(3) ASPHALT SURFACE SHOWN. CONTRACTOR MAY DRILL THROUGH CONCRETE PAVEMENT AND THAN DRIVE ASPHALT ANCHOR PIN.



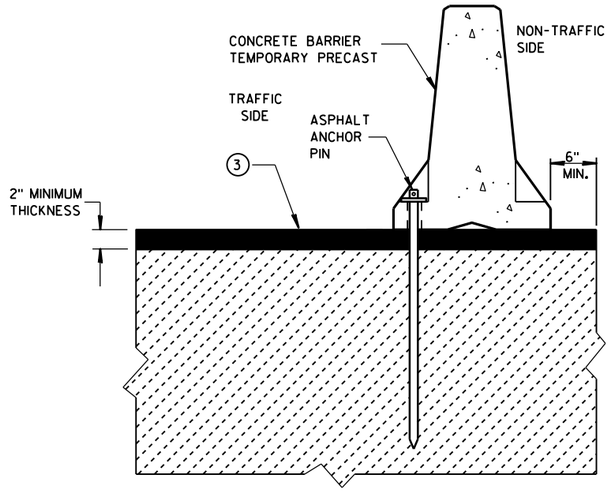
THROUGH BOLTED ANCHOR INSTALLATION ON BRIDGE DECK

(DO NOTUSE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)

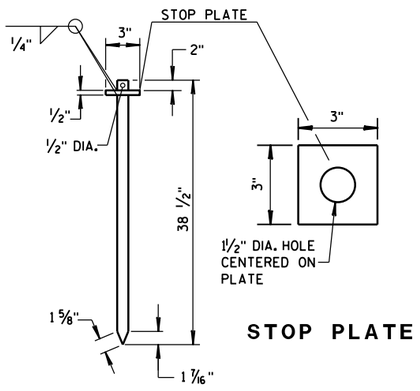


REMOVABLE ADHESIVE ANCHOR INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR CONCRETE PAVEMENT

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)



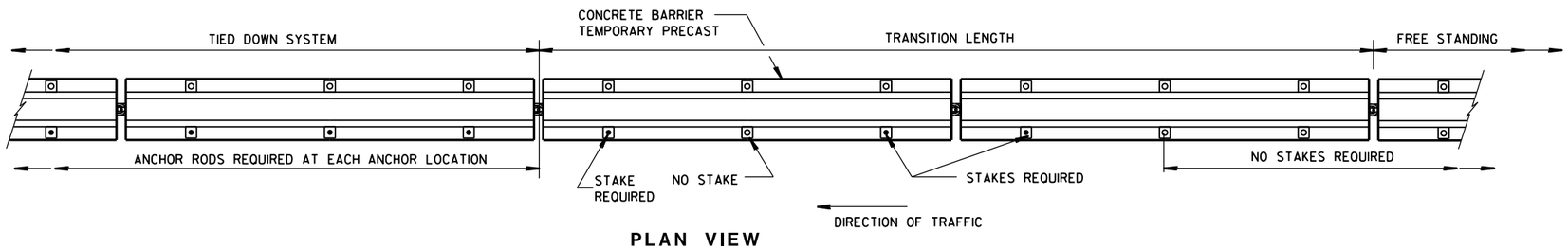
STAKE DOWN INSTALLATION FOR ASPHALTIC SURFACE



STOP PLATE

ASPHALT ANCHOR PIN

(ASTM A36 STEEL)



PLAN VIEW

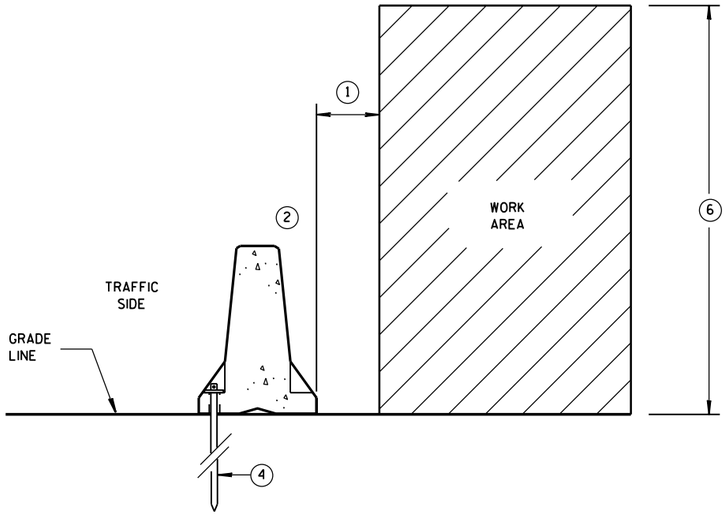
FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY. IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN.)

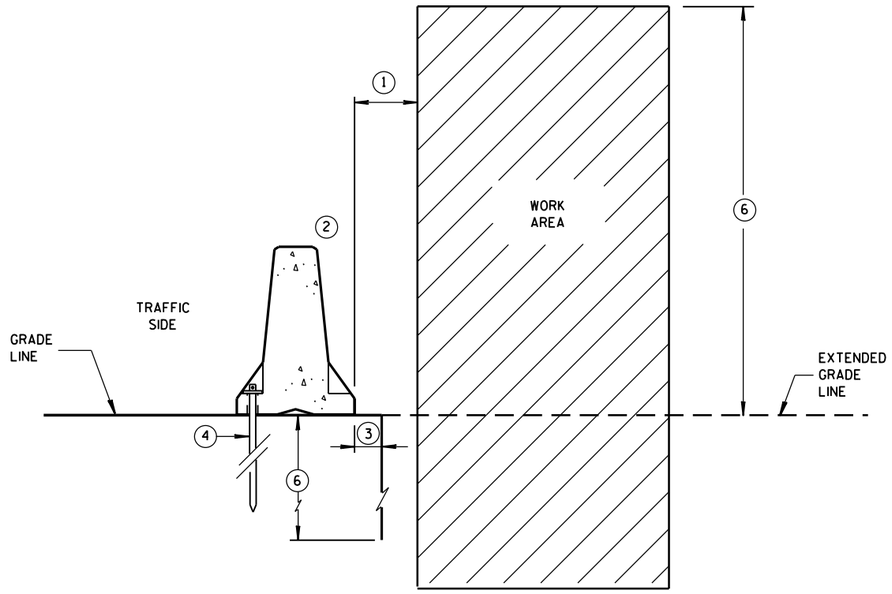
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 14 B 7-15d



ANCHORED BARRIER SPACE REQUIREMENTS FOR HAZARDS EXTENDED ABOVE THE GRADE LINE

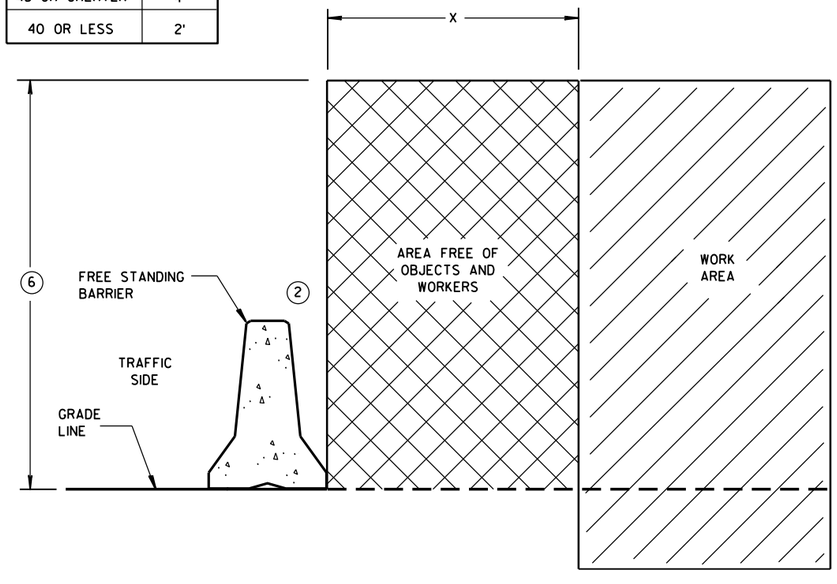


ANCHORED BARRIER SPACE REQUIREMENTS ON VERTICAL DROP OFFS

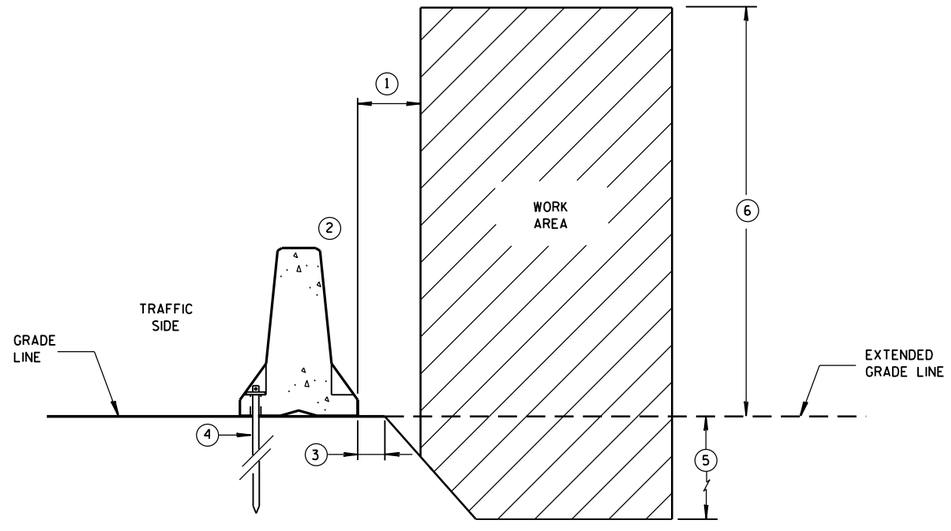
GENERAL NOTES

1. WHEN OBJECTS EXTEND ABOVE THE GRADE, A MINIMUM OF 1 FOOT IS REQUIRED FROM BACK OF BARRIER TO OBJECT. SEE OTHER DETAILS FOR FOR THE MINIMUM OFFSET FROM BACK OF BARRIER TO SLOPES OR VERTICAL DROPS.
2. OBJECTS ARE NOT TO BE PLACED ON, MOUNTED TO, OR LEANED AGAINST THE BARRIER WITHOUT PERMISSION OF THE PROJECT ENGINEER.
3. SEE OTHER DETAIL ON SHEET "D" FOR SPACE REQUIREMENTS.
4. SEE BOLT THROUGH DECK, REMOVABLE ADHESIVE ANCHOR, OR A STAKE DOWN FOR ASPHALTIC SURFACE TREATMENT DETAILS. ASPHALTIC ANCHOR SHOWN.
5. DEPTH OF 3 FEET OR MORE.
6. Y = 6'-6".

POSTED SPEED MPH	X
45 OR GREATER	4'
40 OR LESS	2'



FREE STANDING BARRIER SPACE REQUIREMENTS



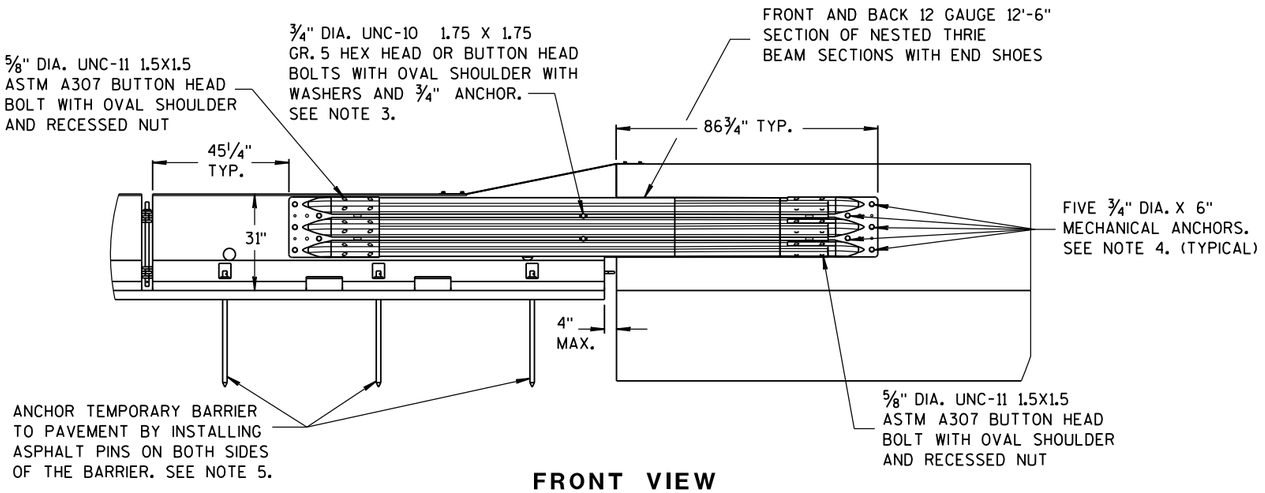
ANCHORED BARRIER SPACE REQUIREMENTS ON SLOPES

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

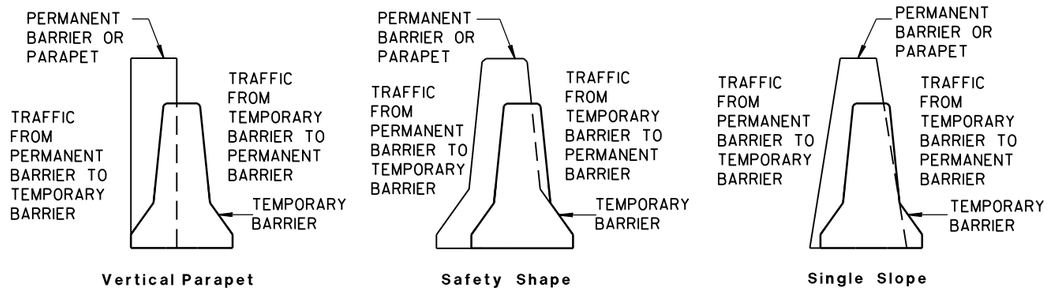
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 7-15e



FRONT VIEW

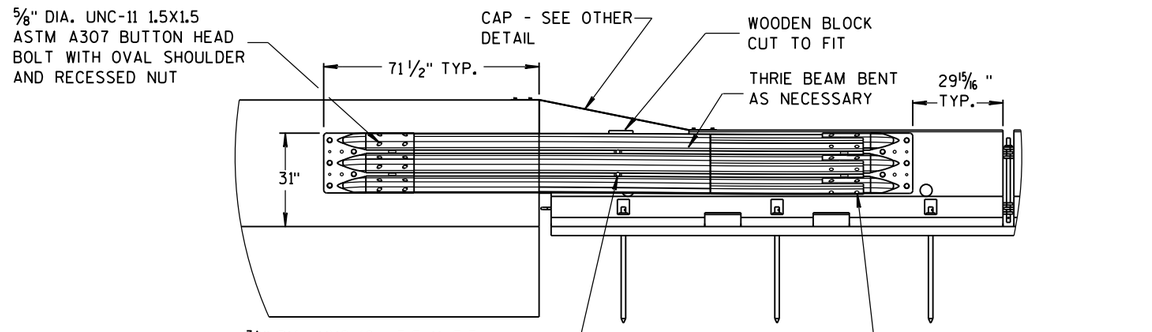


TEMPORARY BARRIER PLACEMENT FOR BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM

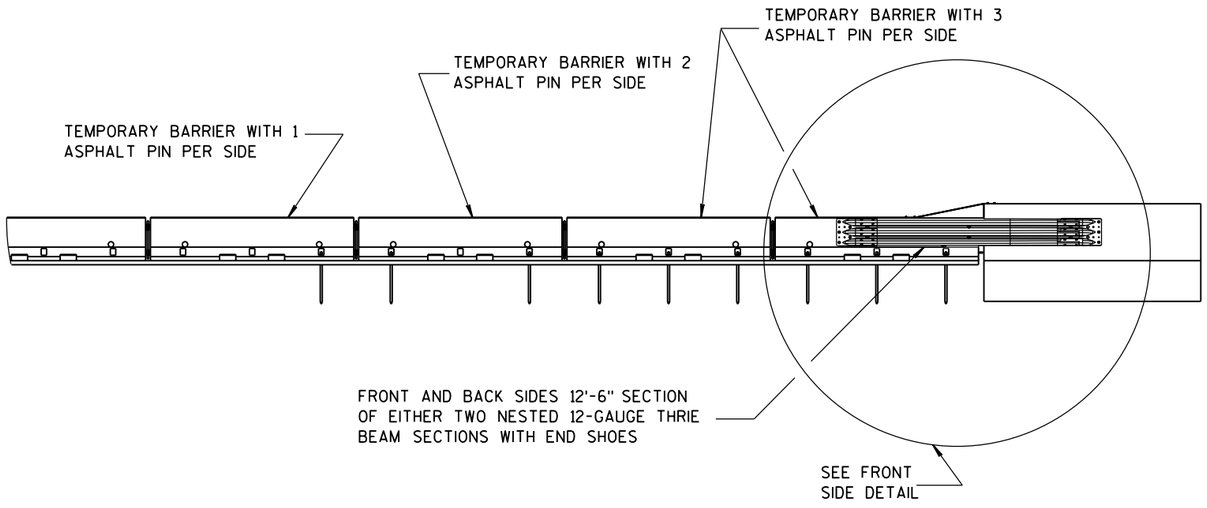
NOTES

NESTED THRIE BEAM IS REQUIRED ON BOTH SIDES OF THE TEMPORARY BARRIER FOR ALL INSTALLATIONS REGARDLESS OF TRAFFIC.

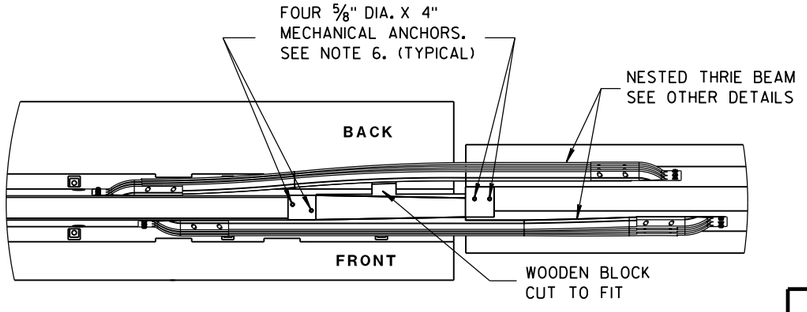
1. CAP END PLATE PLACED FLUSH WITH UPSTREAM END OF PERMANENT BARRIER OR PARAPET.
2. THRIE BEAM PIECES ARE OFFSET 15 1/4" TO PREVENT INTERFERENCE FROM THE ANCHORS ON OPPOSING SIDES.
3. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 9.48 KIPS AND ULTIMATE SHEAR LOAD 10.48 KIPS.
4. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 17.9 KIPS AND ULTIMATE SHEAR LOAD 21.96 KIPS.
5. MAY BE USED ON CONCRETE OR ASPHALT PAVEMENTS. ASPHALT OPTION SHOWN. FOR CONCRETE OPTION SEE OTHER DETAILS.
6. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 12.14 KIPS AND ULTIMATE SHEAR LOAD 17.5 KIPS.



BACK VIEW



FRONT VIEW



PLAN VIEW

BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6

S.D.D. 14 B 7-15f

6

S.D.D. 14 B 7-15f

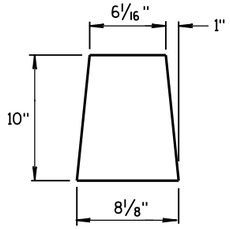
GUSSET 1

GUSSET 2

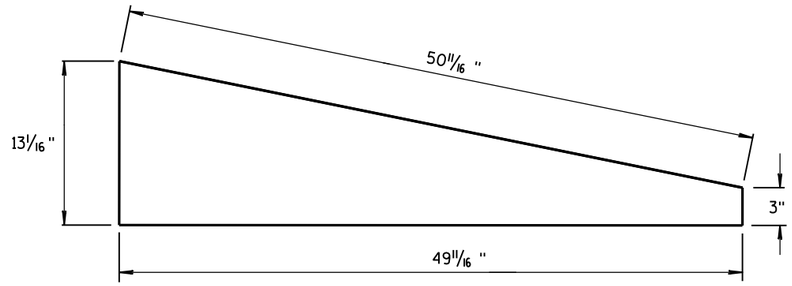
GUSSET 3

GUSSET 4

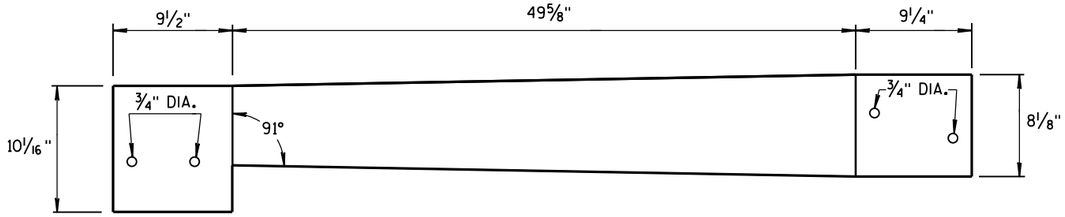
GUSSETS

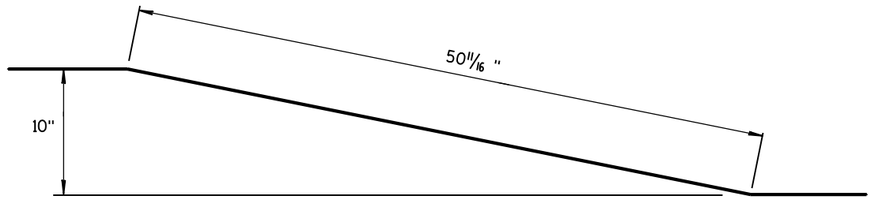


END PLATE

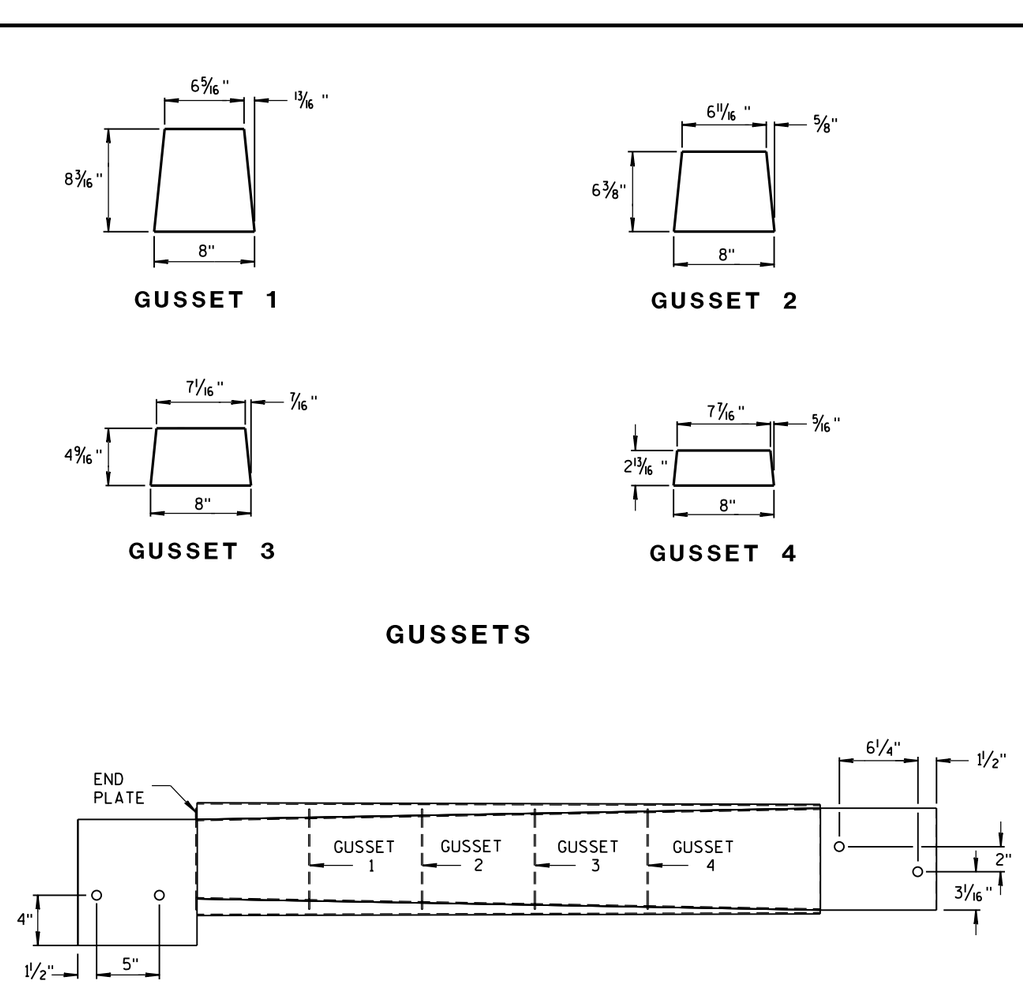


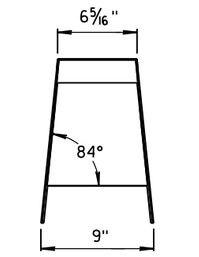
SIDE PLATE





TOP PLATE





SECTION C-C

SIDE, TOP AND END PLATES FOR CAP FROM TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 GALVANIZED STEEL.

NOTES

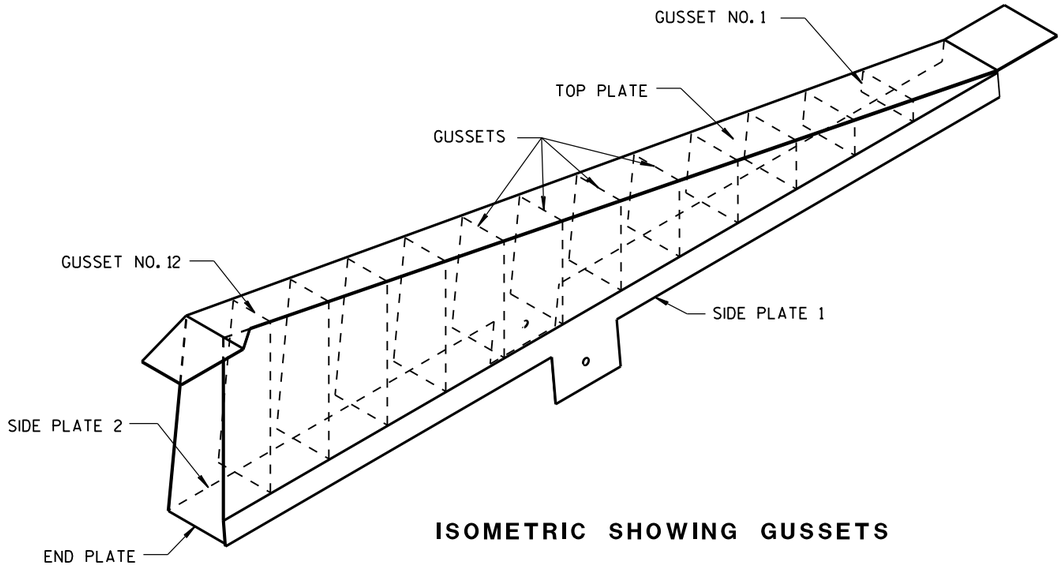
1. FOUR GUSSETS AND END PLATE ARE STITCH WELDED ON THREE SIDES.
2. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE, AND GUSSETS.

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

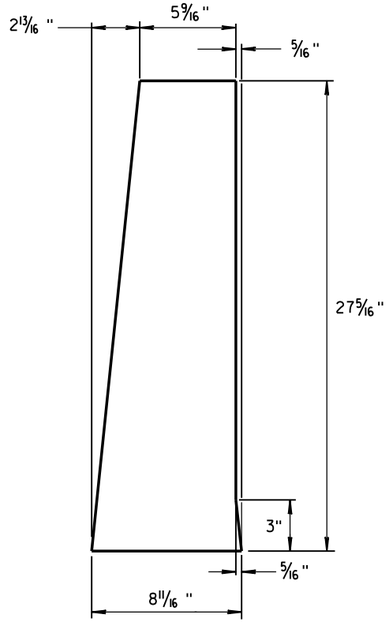
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 14 B 7-15g

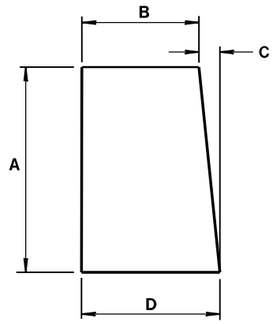


ISOMETRIC SHOWING GUSSETS



END PLATE

1/8" STEEL PLATE



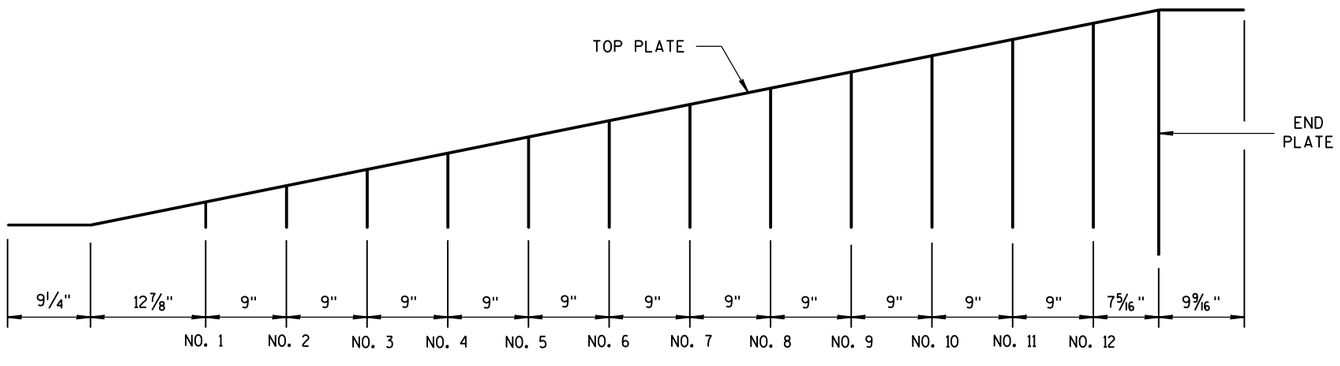
GUSSETS 1 - 12

ALL GUSSETS 1/8" STEEL PLATE

GUSSET DIMENSIONS				
GUSSET NO.	A	B	C	D
1	2 7/8"	7 3/4"	1/4"	8
2	4 11/16 "	7 9/16 "	1/2"	8
3	6 1/2"	7 3/8"	11/16 "	8 1/16 "
4	8 5/16 "	7 3/16 "	7/8"	8 1/16 "
5	10 1/8"	7"	1 1/16 "	8 1/16 "
6	11 15/16 "	6 13/16 "	1 1/4"	8 1/16 "
7	13 3/4"	6 5/8"	1 7/16 "	8 1/16 "
8	15 9/16 "	6 7/16 "	1 9/16 "	8 1/16 "
9	17 3/8"	6 1/4"	1 13/16 "	8 1/16 "
10	19 3/16 "	6 1/16 "	1 15/16 "	8 1/16 "
11	21"	5 7/8"	2 3/16 "	8 1/16 "
12	22 13/16 "	5 11/16 "	2 5/16 "	8 1/16 "

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.



GUSSET LOCATION

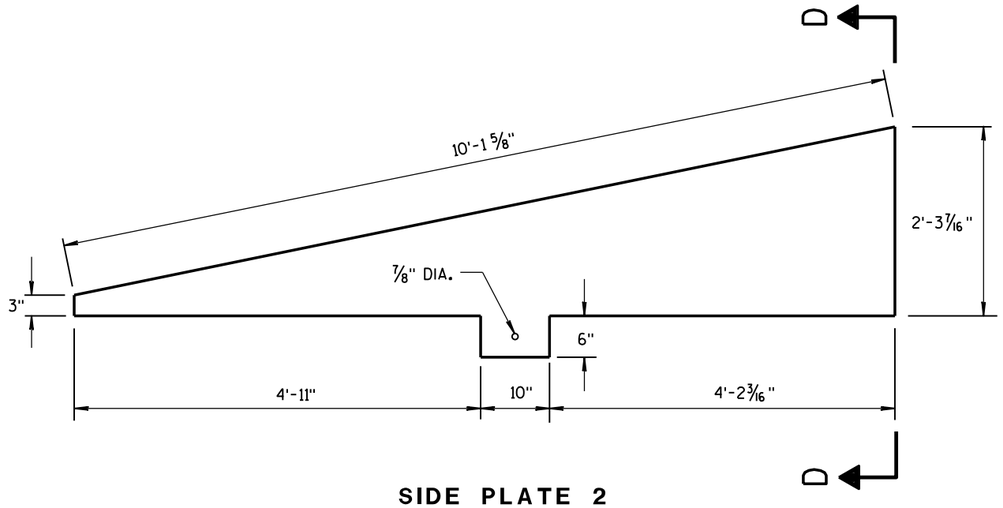
CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

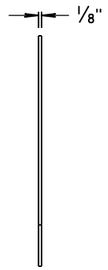
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

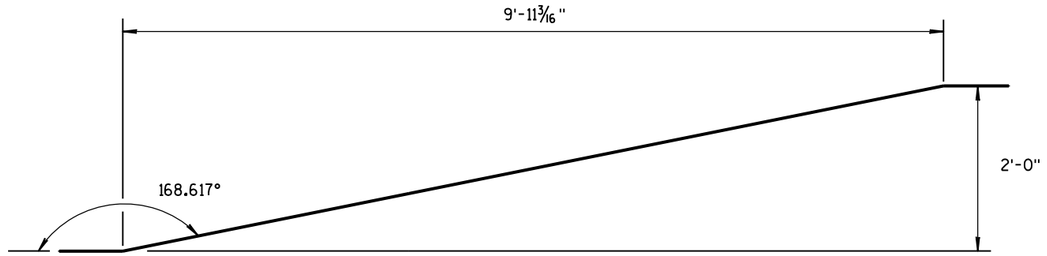
S.D.D. 14 B 7-15h



SIDE PLATE 2

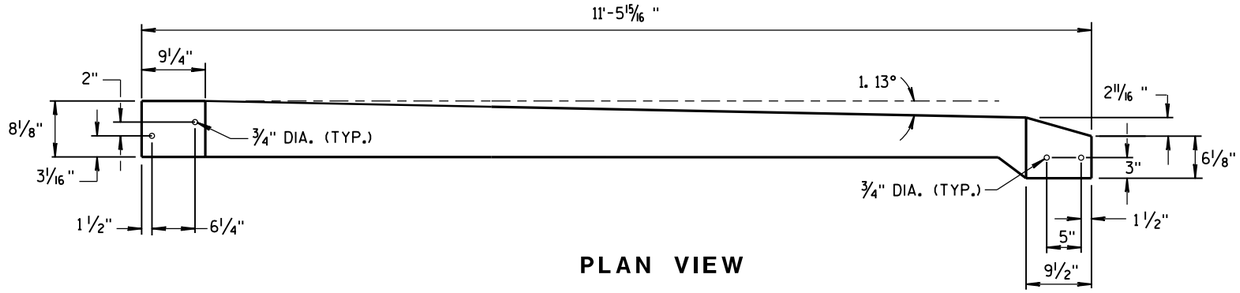


END VIEW



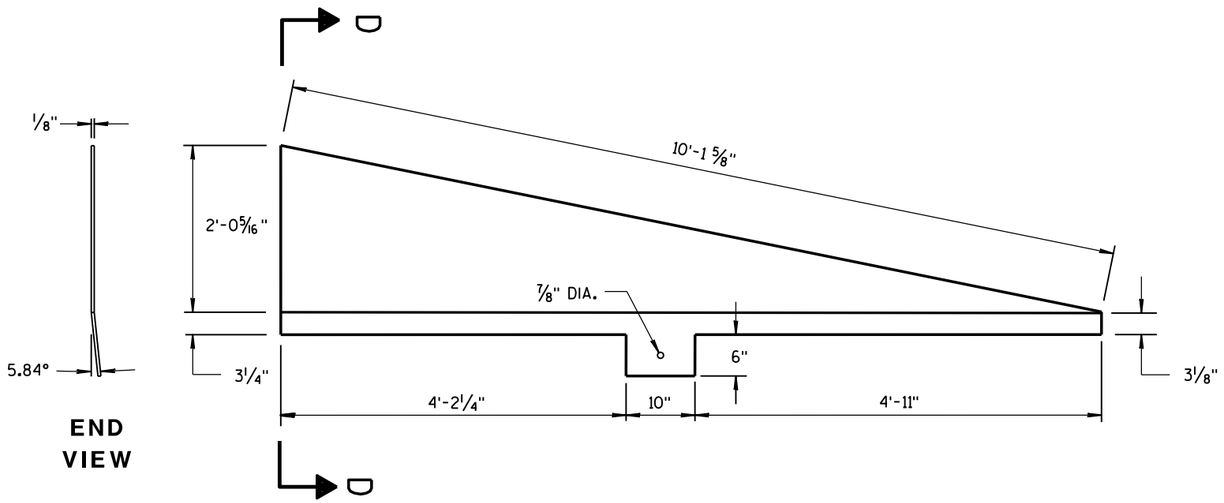
SIDE VIEW

TOP PLATE



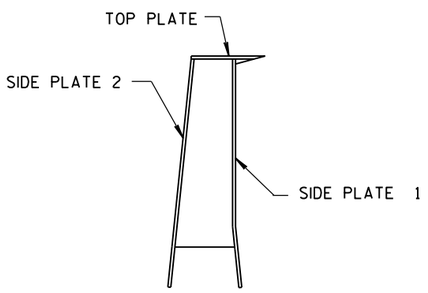
PLAN VIEW

TOP PLATE



END VIEW

SIDE PLATE 1



SECTION D-D

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE
FHWA

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT ENGINEER

365

S.D.D. 14 B 7-15i

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S.D.D. 14 B 7-15i

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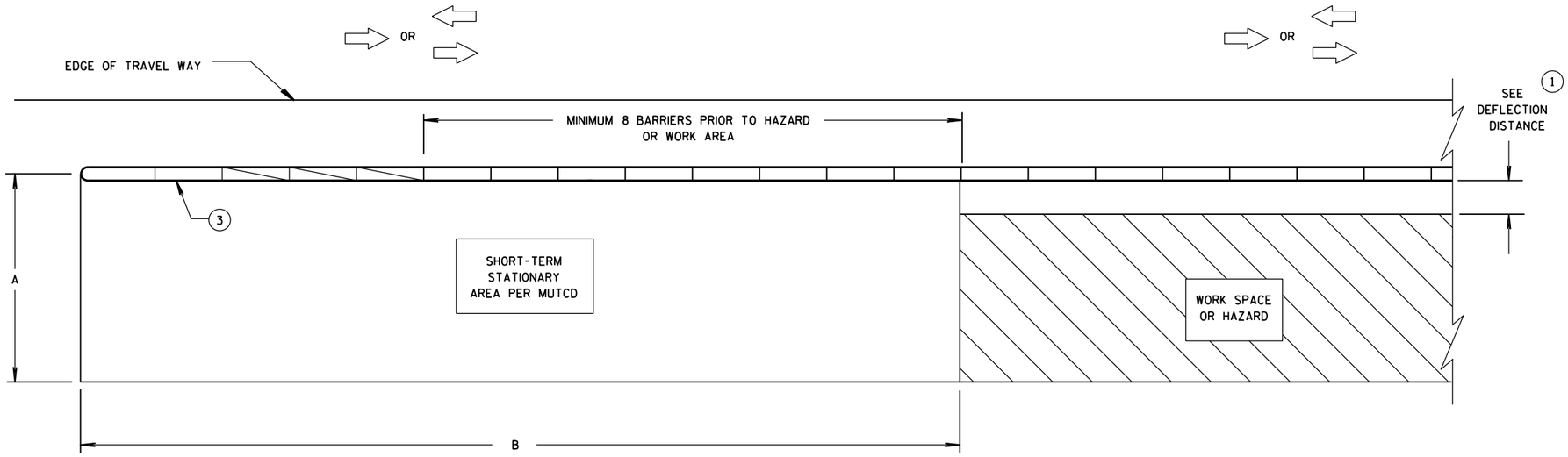


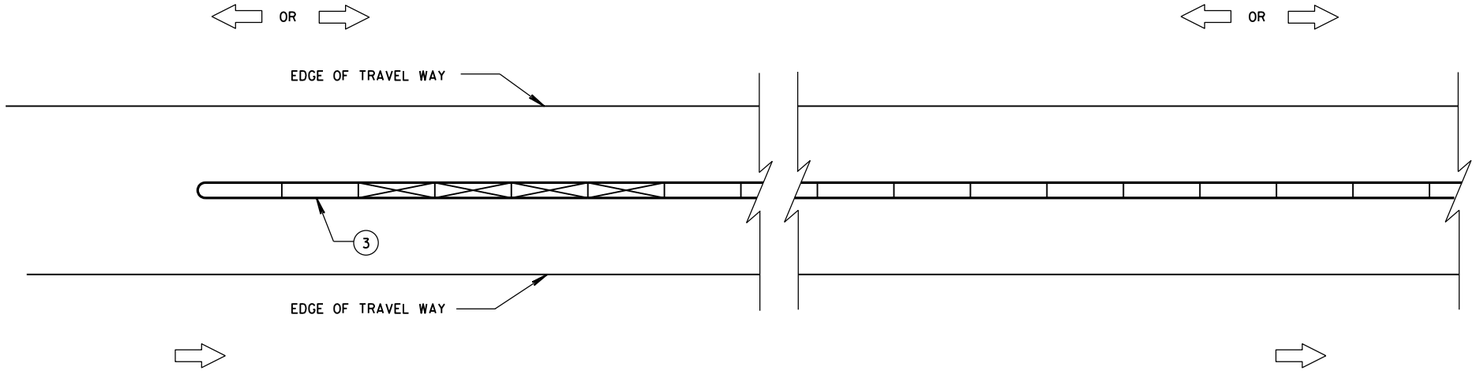
CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON ONE SIDE OF BARRIER

DIMENSION A TABLE (2)

FACILITY	POSTED SPEED MPH	DIMENSION A	
		MIN. FT	MAX. FT
FREEWAY/EXPRESSWAY	ALL	15	20
NON-FREEWAY/EXPRESSWAY	GREATER THAN OR EQUAL TO 45	10	15
NON-FREEWAY/EXPRESSWAY	LESS THAN 45	8	10
AADT LESS THAN 1,500	ALL	8	10

DIMENSION B TABLE (2)

POSTED SPEEDS MPH	DIMENSION B FT
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645



CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON BOTH SIDES OF BARRIER

LEGEND

- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

GENERAL NOTES

SEE STANDARD DETAIL DRAWING 14B7 FOR MORE INFORMATION.

DETAILS PROVIDE A GENERAL LAYOUT OF TEMPORARY CONCRETE BARRIER, CRASH CUSHIONS, SAND BARREL ARRAYS AND TIE DOWN TRANSITIONS. DETAILS PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

ADDITIONAL TEMPORARY BARRIER MAY BE REQUIRED TO PROTECT TRAVELING PUBLIC FROM HAZARDS, CONTRACTOR'S OPERATIONS OR TO CONTROL TRAFFIC.

TEMPORARY BARRIER MAY BE REQUIRED TO BE ANCHORED TO PAVEMENT OR BRIDGE DECK.

FOR DETAILS ON CRASH CUSHION OR SAND BARREL ARRAYS SEE OTHER SECTIONS OF THE PLAN AND MANUFACTURE'S DETAILS.

SLOPES LEADING TO TEMPORARY BARRIER, CRASH CUSHION OR SAND BARREL ARRAY ARE 10:1 OR LESS.

(1) FOR DEFLECTION INFORMATION SEE STANDARD DETAIL DRAWING 14B7.

(2) VALUES PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

(3) ANCHOR TEMPORARY BARRIER ACCORDING TO CRASH CUSHION OR SAND BARREL MANUFACTURER'S RECOMMENDATIONS. IF MANUFACTURER'S RECOMMENDATIONS ARE NOT PROVIDED, ANCHOR 3 PINS ON TRAFFIC SIDE.

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
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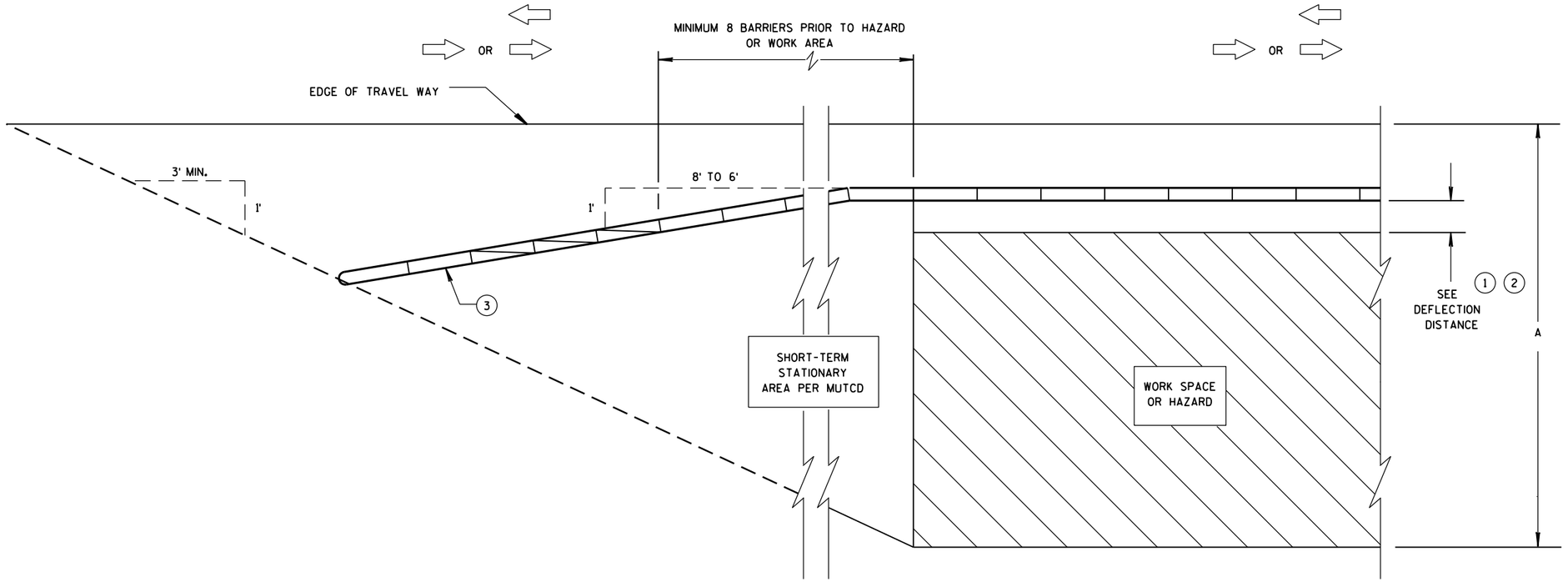
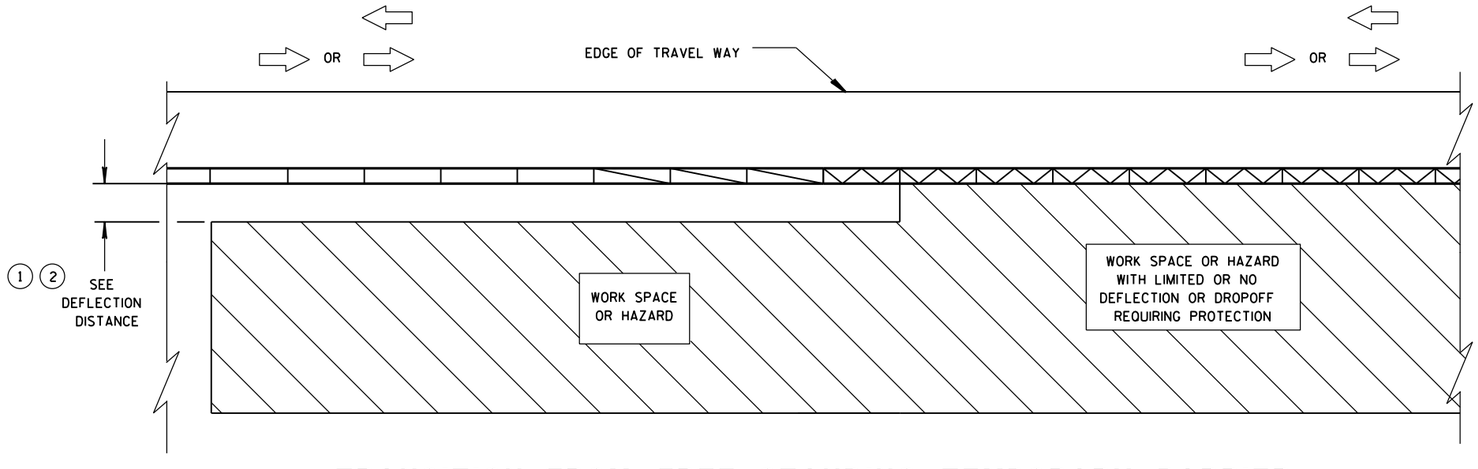


CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON ONE SIDE - FLARED INSTALLATION



TRANSITION FROM FREE STANDING TEMPORARY BARRIER TO ANCHORED BARRIER

LEGEND

- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
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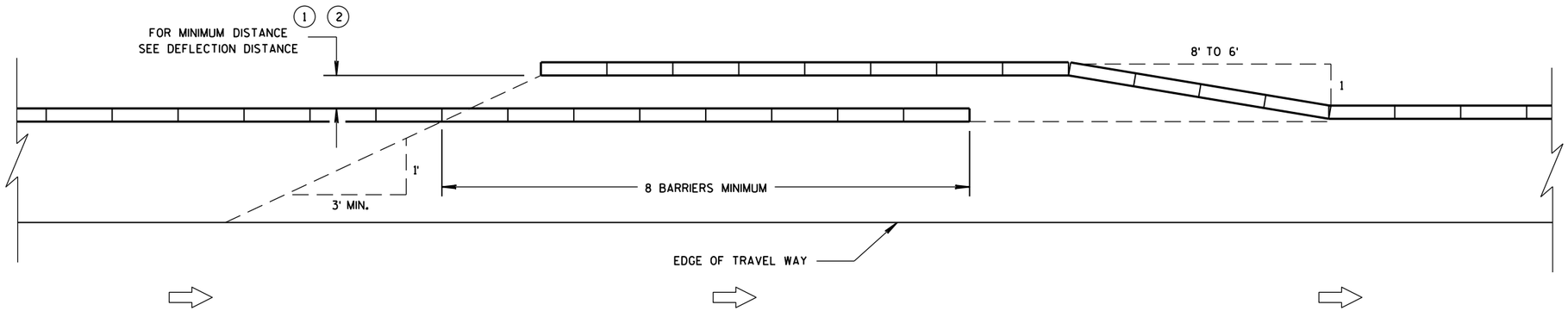
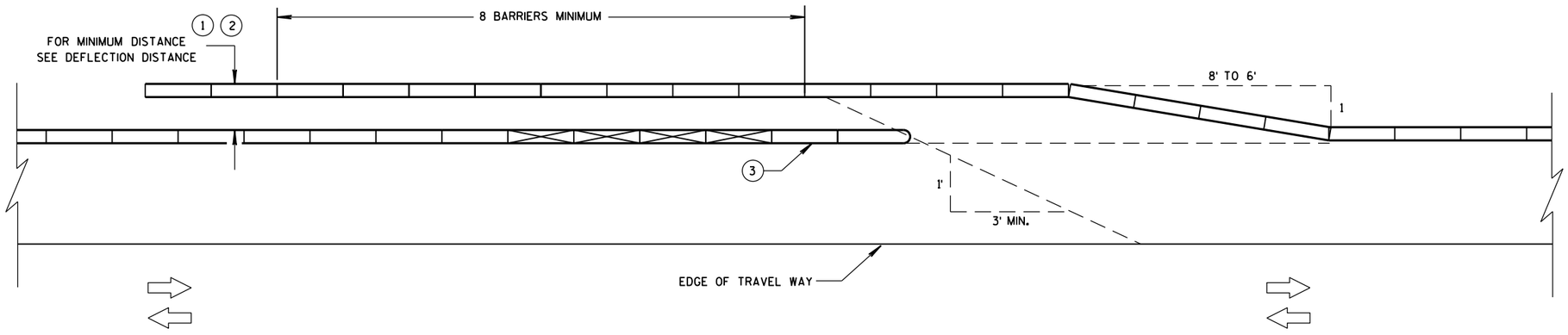
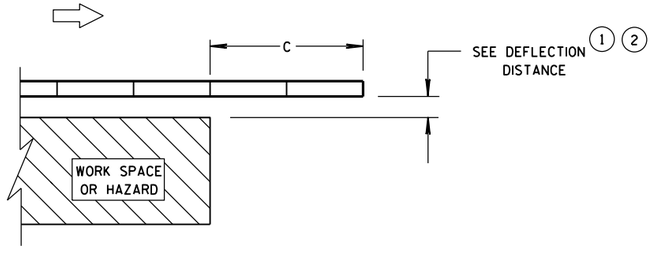
S.D.D. 14 B 8-2b



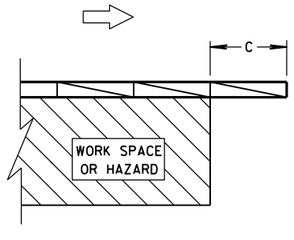
TEMPORARY BARRIER OVERLAP - ONE-WAY TRAFFIC



TEMPORARY BARRIER OVERLAP - TWO-WAY TRAFFIC



ENDING TEMPORARY BARRIER DOWNSTREAM - UNANCHORED



ENDING TEMPORARY BARRIER DOWNSTREAM - ANCHORED

LEGEND

- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

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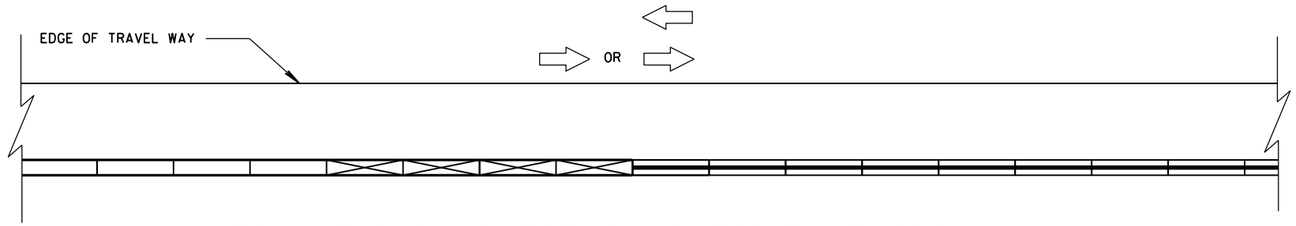
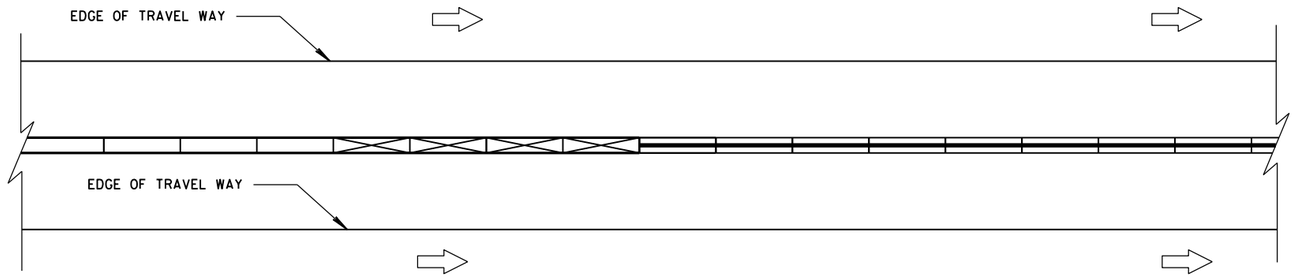


CONNECTING TEMPORARY BARRIER TO PERMANENT
CONCRETE BARRIER-TRAFFIC ON ONE SIDE



CONNECTING TEMPORARY BARRIER TO PERMANENT
CONCRETE BARRIER-TRAFFIC ON BOTH SIDES

LEGEND

DIRECTION OF TRAVEL

CRASH CUSHION OR
SAND BARREL ARRAY

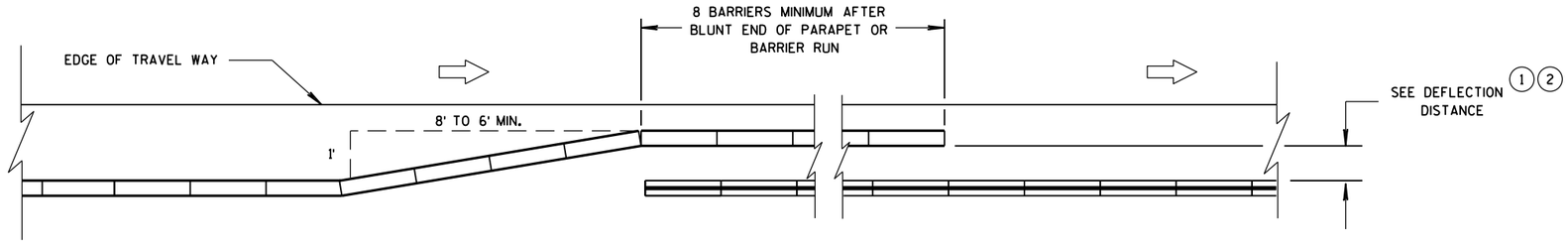
SEE FREE STANDING TRANSITION
TO TIED-DOWN SYSTEM DETAILS

SEE BI-DIRECTIONAL TRANSITION
TO TIED-DOWN SYSTEM DETAILS

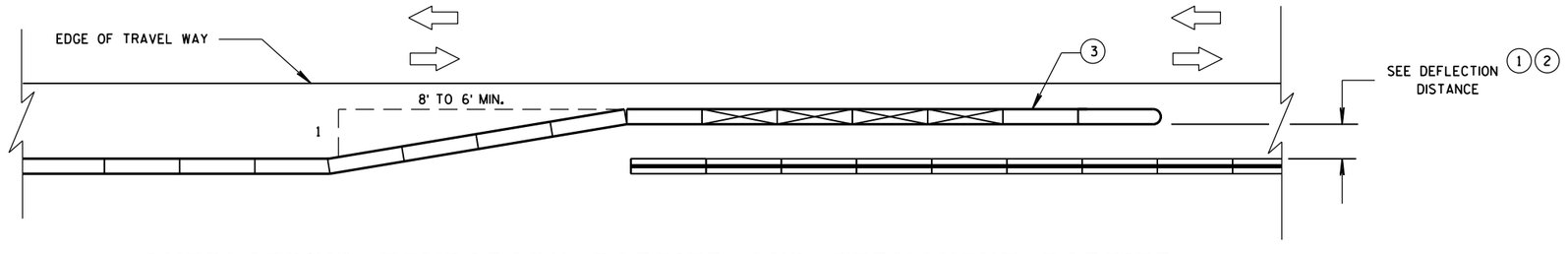
3 PINS PLACED ON
TRAFFIC SIDE OF BARRIER

PERMANENT CONCRETE BARRIER
OR CONCRETE PARAPET

FREE STANDING TEMPORARY
BARRIER



OVERLAPPING TEMPORARY BARRIER AND PERMANENT BARRIER -
ONE WAY TRAFFIC



OVERLAPPING TEMPORARY BARRIER AND PERMANENT BARRIER -
TWO WAY TRAFFIC

CRASH CUSHION/SAND BARREL
ARRAY AND OTHER TEMPORARY
BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
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LEGEND

DIRECTION OF TRAVEL

CRASH CUSHION OR SAND BARREL ARRAY

SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS

SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS

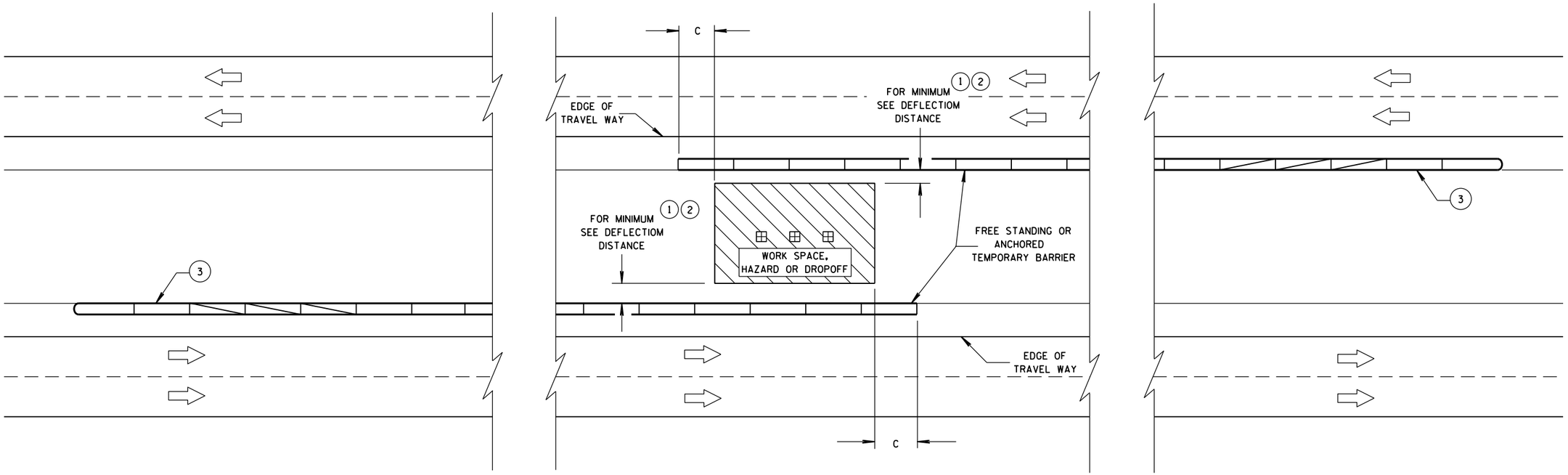
3 PINS PLACED ON TRAFFIC SIDE OF BARRIER

PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET

FREE STANDING TEMPORARY BARRIER

DIMENSION C TABLE (2)

AVAILABLE DEFLECTION DISTANCE	MINIMUM LENGTH OF BARRIER BEYOND HAZARD FT
GREATER THAN 8'	12.5
LESS THAN OR EQUAL TO 8' BUT GREATER THAN 4'	50
LESS THAN OR EQUAL TO 4'	100



CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINNER
FHWA

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S.D.D. 14 B 8-2e

GENERAL NOTES

(1) W6 X 9 OR W6 X 8.5 STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POSTS WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS. APPROVED PLASTIC BLOCKOUT DESIGNS MAY VARY FROM THIS TYPICAL DETAIL WHEN USED IN CONJUNCTION WITH STEEL POSTS.

DO NOT MIX STEEL POSTS AND WOOD POSTS IN A SINGLE INSTALLATION.

(2) USE STRUCTURAL STEEL POSTS CONFORMING TO ASTM A 36. GALVANIZED POSTS ACCORDING TO AASHTO M 111. EITHER SET THE POSTS IN DRILLED HOLES OR DRIVE TO GRADE. REMOVE MUSHROOMING CAUSED BY DRIVING AND REPAIR DAMAGED SPELTER COATING ON GALVANIZED POSTS.

(3) INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

(4) USE EITHER WOOD OR APPROVED PLASTIC BLOCKOUTS ON WOOD POSTS.

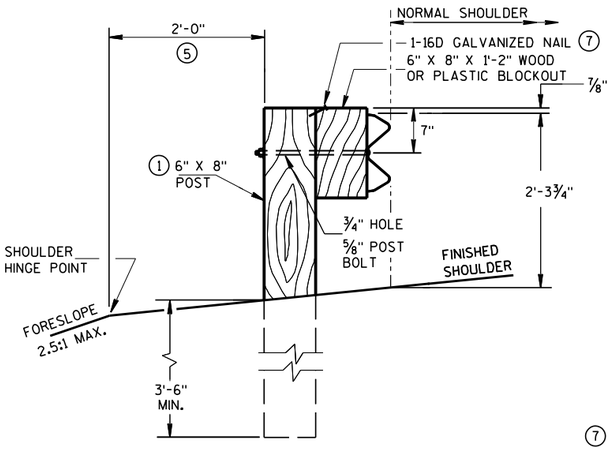
(5) IF THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING, W BEAM (LHW).

(6) IF ROCK IS ENCOUNTERED DURING EXCAVATION, THE ENGINEER MAY APPROVE USING A 12 INCH DIAMETER POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE APPROXIMATELY 2½ INCHES DEEP. CUT THE POSTS TO LENGTH AND PLACE IN YHE HOLE. BACKFILL WITH MATERIAL EXCAVATED FROM THE HOLE AND COMPACT ADEQUATEY.

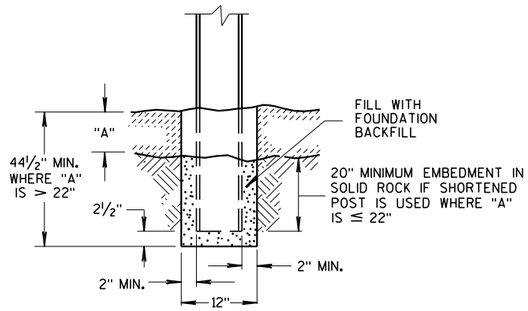
(7) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

INSTALL BEAM GUARD SECTIONS AND ALL NECESSARY HARDWARE ACCORDING TO THE APPLICABLE PLAN AND CURRENT STANDARD AND SUPPLEMENTAL SPECIFICATIONS.

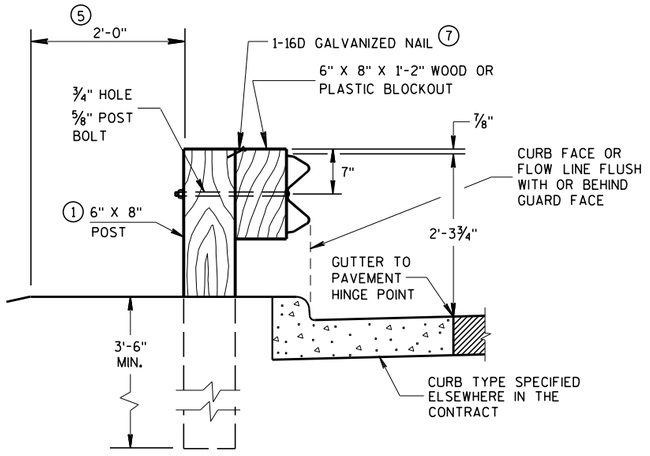
ALL DIMENSIONS ARE SUBJECT TO MANUFACTURER'S TOLERANCES EXCEPT WHERE ALLOWABLE TOLERANCES ARE SHOWN.



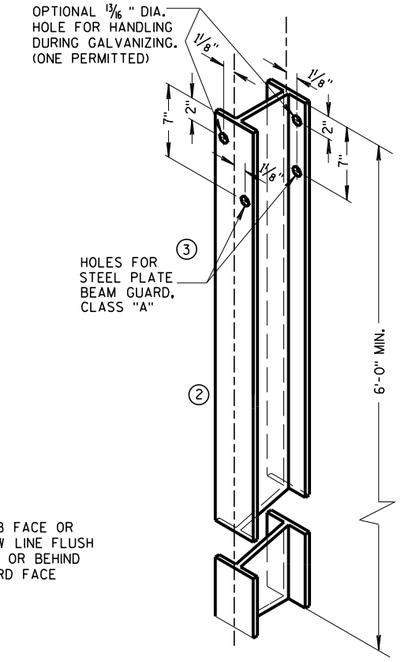
END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



END VIEW
SETTING STEEL OR WOOD POST IN ROCK (6)

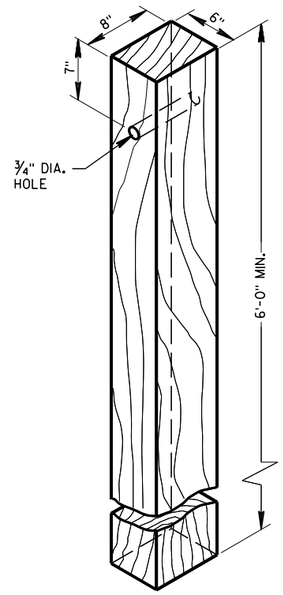


END VIEW
LOCATED ALONG A CURBED ROADWAY

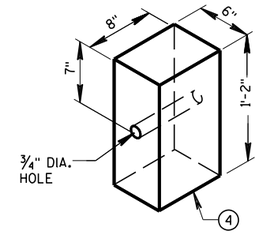


STEEL POST &
HOLE PUNCHING DETAIL
(W6 X 9) (1)

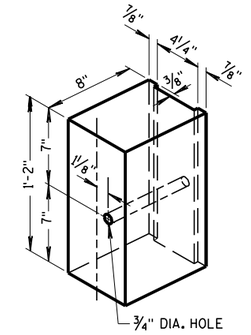
ALL HOLES 13/16" DIAMETER EXCEPT AS NOTED



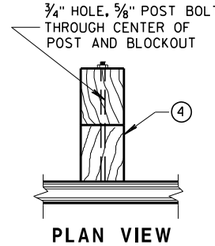
WOOD POST
(6"X8") NOMINAL



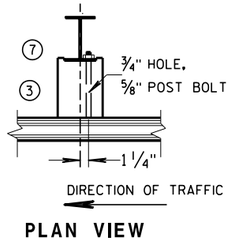
WOOD OR PLASTIC
BLOCKOUT FOR
WOOD POSTS



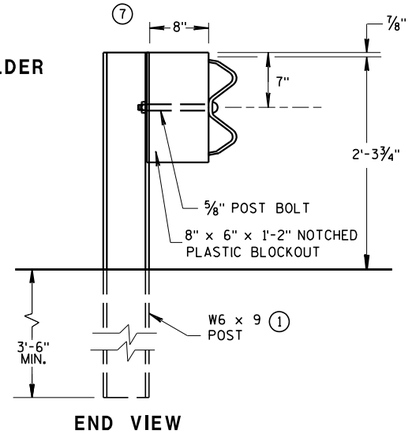
TYPICAL NOTCHED
PLASTIC BLOCKOUT
FOR STEEL POSTS (1)



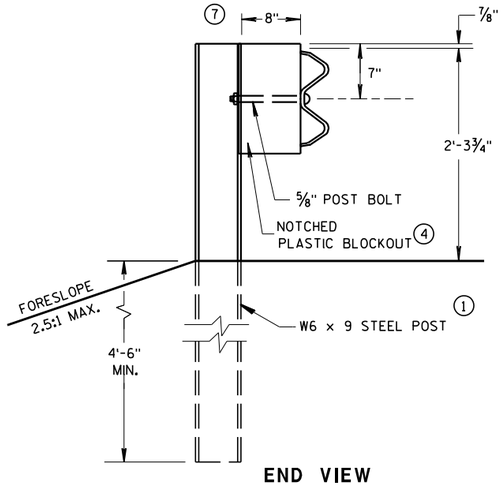
PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



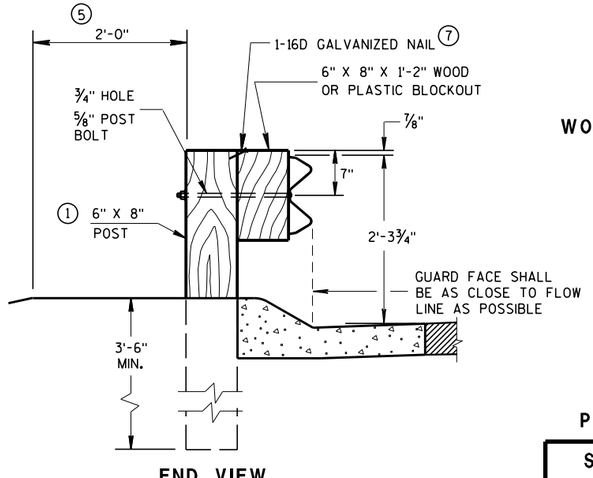
PLAN VIEW
STEEL POST, NOTCHED
PLASTIC BLOCKOUT & BEAM



END VIEW
STEEL POST & NOTCHED
PLASTIC BLOCKOUT ALTERNATIVE
STANDARD INSTALLATION



END VIEW
LONGER POST AT HALF
POST SPACING W BEAM
(LHW)



END VIEW
LOCATED ALONG A
MOUNTABLE CURBED ROADWAY

TYPICAL INSTALLATION OF STEEL PLATE BEAM GUARD

STEEL PLATE BEAM GUARD,
CLASS "A"
INSTALLATION & ELEMENTS

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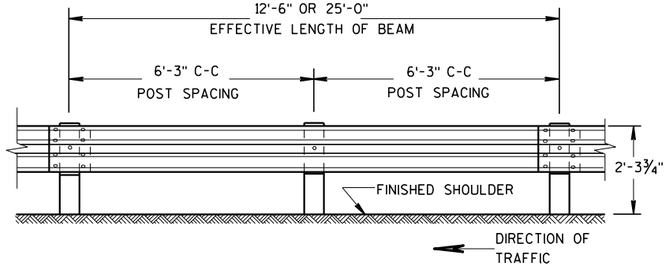
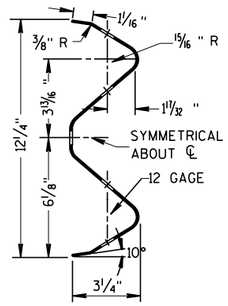
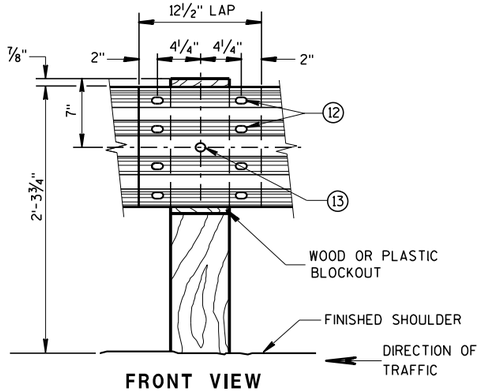


FRONT VIEW

POST SPACING STANDARD INSTALLATION



SECTION THRU W BEAM



FRONT VIEW

BEAM SPLICE AT WOOD POST AND POST MOUNTING DETAIL

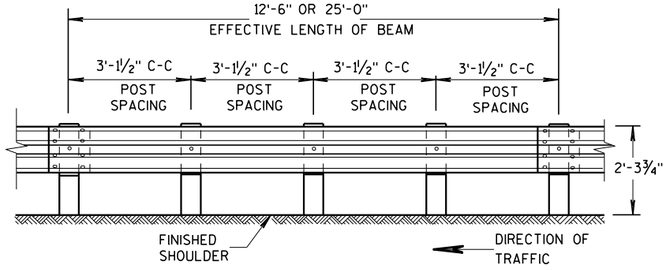
GENERAL NOTES

FURNISH GUARDRAIL DEFLECTORS FROM APPROVED PRODUCTS LIST.

(9) DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINA. START REFLECTORS AT POST #9 AND SPACE EVENLY EVERY 100 FEET (MAX.) TO THE END OF GUARDRAIL RUN, USING A MINIMUM OF 3 REFLECTORS.

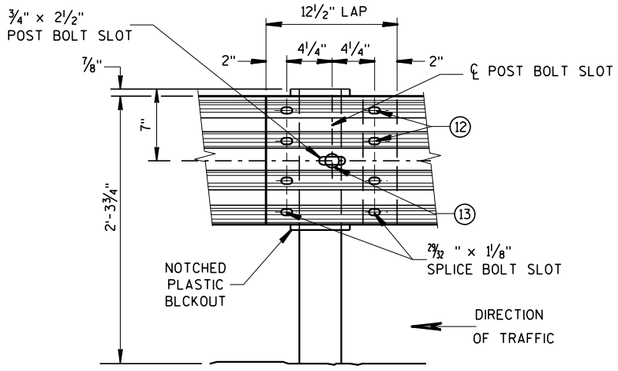
(12) 8 -⅝" ϕ X 2" BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.

(13) ⅝" DIA. BUTTON HEAD BOLT AND RECESS NUT WITH ⅝" DIA. F844 FLAT WASHER UNDER NUT.



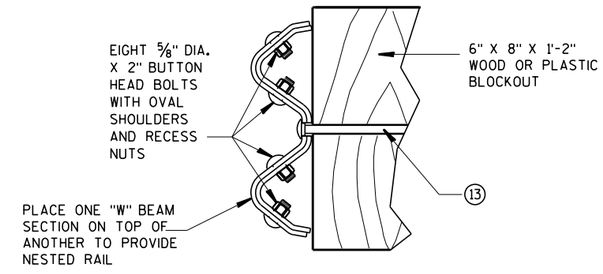
FRONT VIEW

POST SPACING FOR LONGER POST AT HALF POST SPACING W BEAM (LHW)



FRONT VIEW

BEAM SPLICE AT STEEL POST

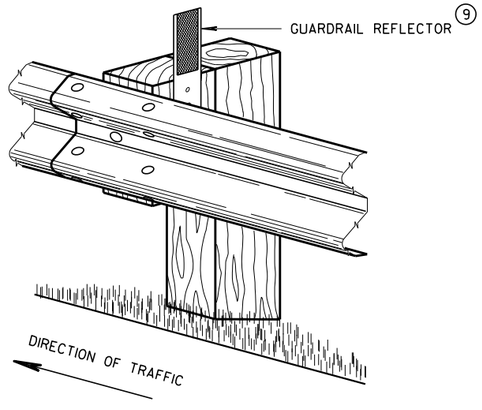


NESTED W BEAM (NW)

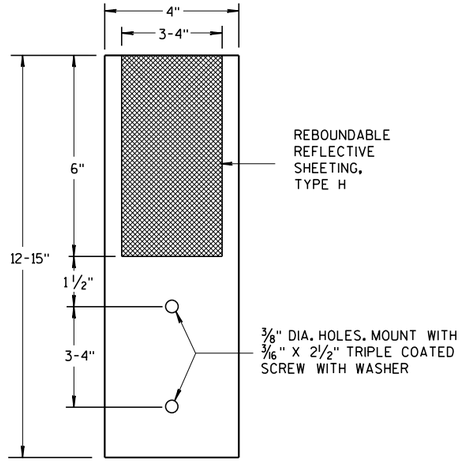
USE ALL OTHER STANDARD BEAM GUARD DETAILS FOR CONSTRUCTING NESTED W BEAM (NW)

TYPICAL SPLICING DETAILS OF STEEL PLATE BEAM GUARD

* USE DOUBLE SIDED WHITE GUADRAIL REFLECTORS ON ROADWAYS WITH BI-DIRECTIONAL TRAFFIC (NO MEDIAN). USE SINGLE SIDED WHITE (RIGHT SIDE) AND SINGLE SIDED YELLOW (LEFT SIDE) ON ROADWAYS WITH MEDIAN SEPARATION.



4" X 12" GUARDRAIL REFLECTOR DETAIL AND TYPICAL INSTALLATION *



4"x 12" GUARDRAIL REFLECTOR

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

STATE OF WISCO 372
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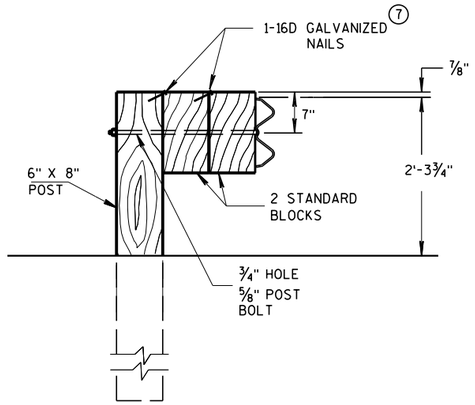
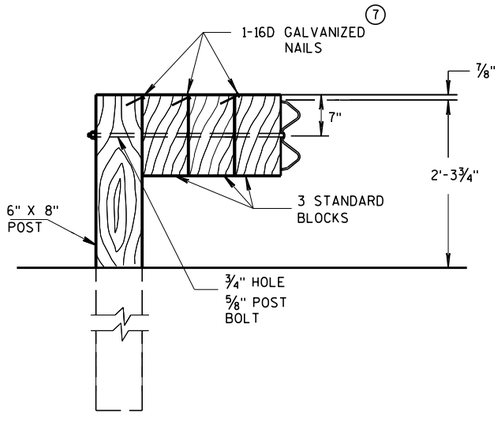


DETAIL FOR DOUBLE BLOCKS

THE NUMBER OF DOUBLE BLOCK POSTS WITHIN A BARRIER RUN IS UNLIMITED

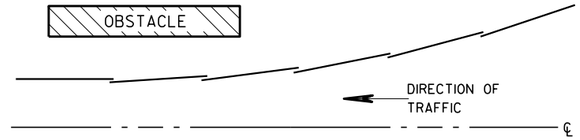


DETAIL FOR TRIPLE BLOCKS

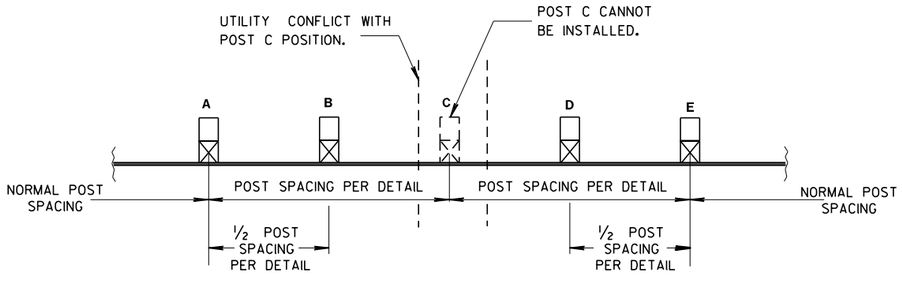
TRIPLE BLOCK DETAIL IS LIMITED TO ONE LOCATION WITHIN A BEAM GUARD RUN.

NOTES: USE DOUBLE OR TRIPLE BLOCKS WHEN UNDERGROUND OBSTACLES PREVENT THE POST FROM BEING INSTALLED.

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



PLAN VIEW
BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS 373 — UNIT SUPERVISOR
FHWA

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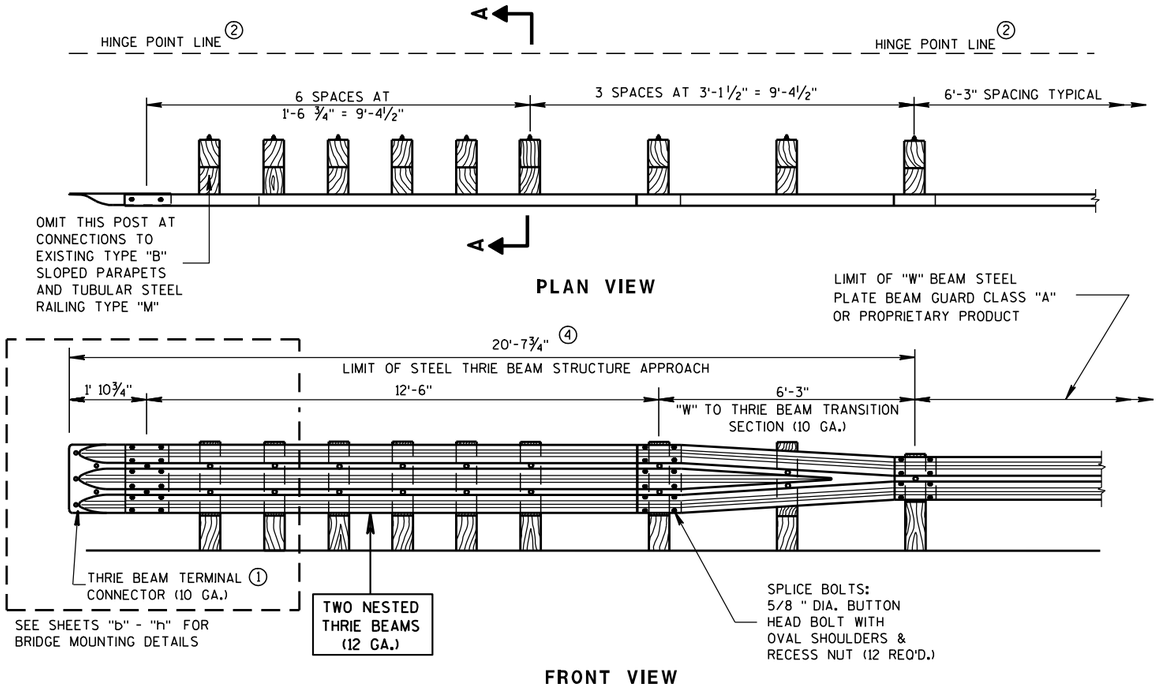
S.D.D. 14 B 15-11c



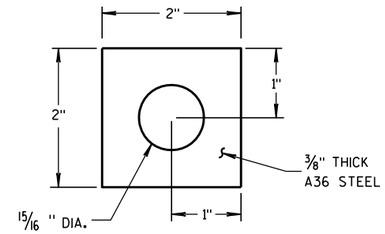


PLATE WASHER DETAIL

GENERAL NOTES

BOLT THE THRIE BEAM TO ALL POSTS AND BLOCKOUTS. DRILL OR PUNCH BOLT HOLES IN THE BEAM IF THE POST SPACING IS LESS THAN 6'-3".

DO NOT USE STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS IN THE STEEL THRIE BEAM STRUCTURAL APPROACH AND THE TRANSITION SECTION OF STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATIONS.

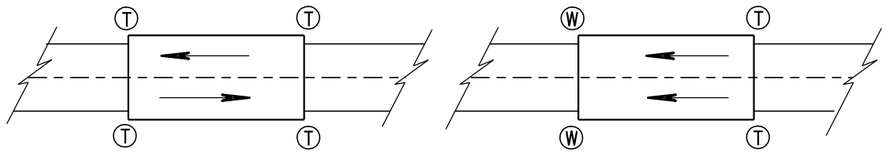
IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2 1/2" , AND 12" DIAMETER AROUND POST. SEE 14B15 FOR MORE DETAILS.

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

② MINIMUM EMBEDMENT SHALL BE 4'-0". WHERE EXISTING CONDITIONS DO NOT PERMIT THE APPROPRIATE EARTHWORK SHOWN ON THE PLAN TYPICAL SECTIONS OR DETAILS, THE ENGINEER MAY ALLOW THE REDUCTION OR ELIMINATION OF THE 2 FOOT DISTANCE TO THE HINGE POINT. OTHERWISE BUILD AS THE PLAN SHOWS OR AS THE ENGINEER DIRECTS. IF THE 2 FOOT DISTANCE TO THE HINGE POINT IS REDUCED OR ELIMINATED, INCREASE THE POST EMBEDMENT DEPTH TO 4'-6" OR MORE.

③ POST BOLTS ARE 5/8" DIAMETER ASTM A307 BUTTON HEAD BOLT. A POST BOLT REQUIRES A 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX AND A 5/8" DIAMETER F844 FLAT WASHER. LENGTH OF POST BOLT MAY VARY.

④ ALL WOOD POSTS MUST BE 6" X 8" AND AT LEAST 7'-0" LONG.



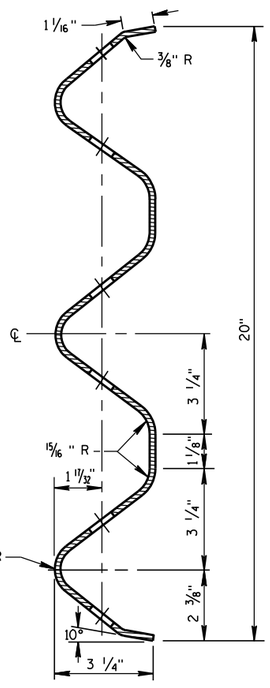
TWO WAY TRAFFIC

ONE WAY TRAFFIC

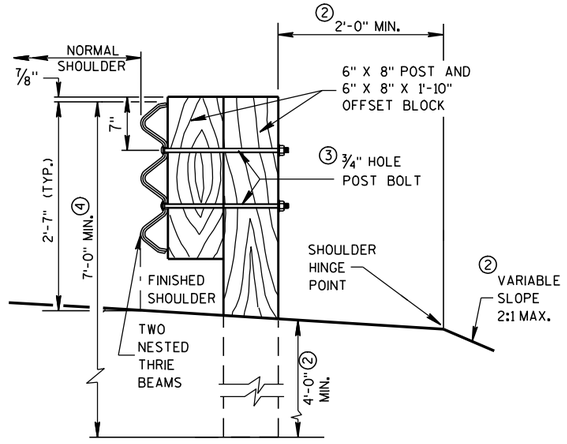
Ⓣ THRIE BEAM CONNECTION

Ⓦ W-BEAM CONNECTION WHEN REQUIRED

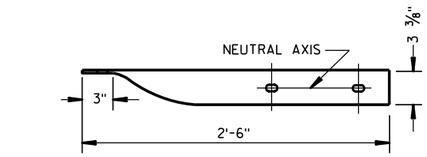
TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE

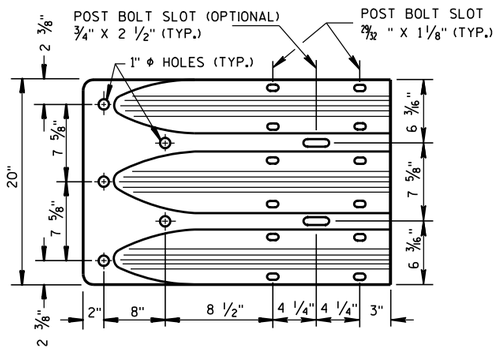


SECTION THRU THRIE BEAM RAIL ELEMENT

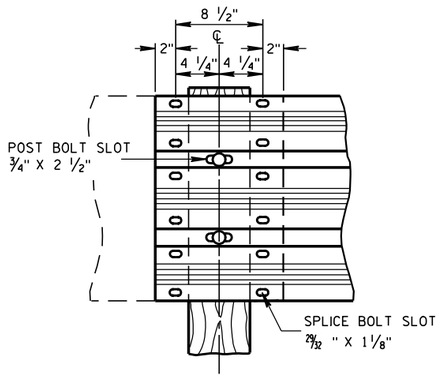


SECTION A-A





THRIE BEAM TERMINAL CONNECTOR



THRIE BEAM SPLICE

STEEL THRIE BEAM STRUCTURE APPROACH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/31/2012
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS 1374
ENGINEER

FHWA

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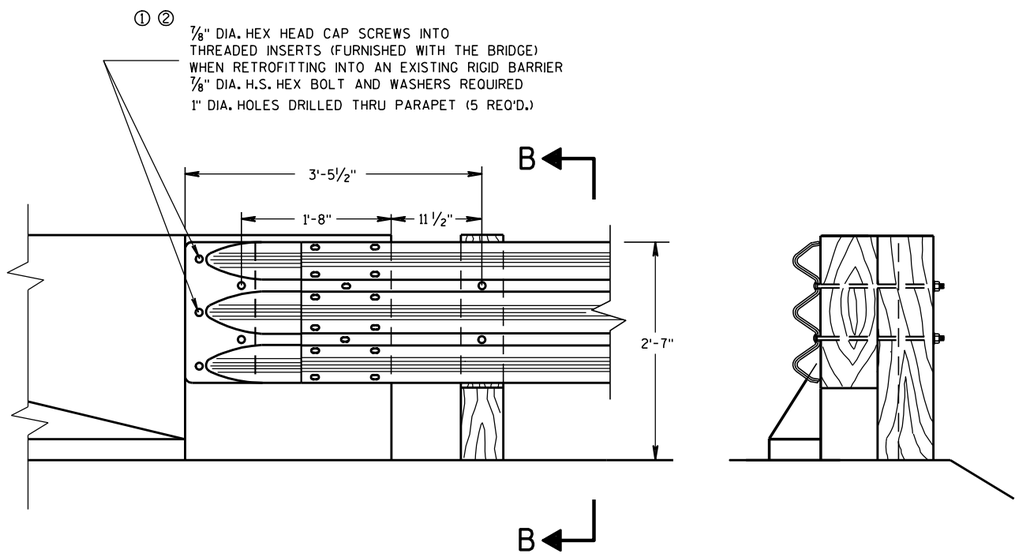


FRONT VIEW

SECTION B-B

THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM A325, A449 AND GALVANIZED PER STANDARD SPECIFICATIONS 614.

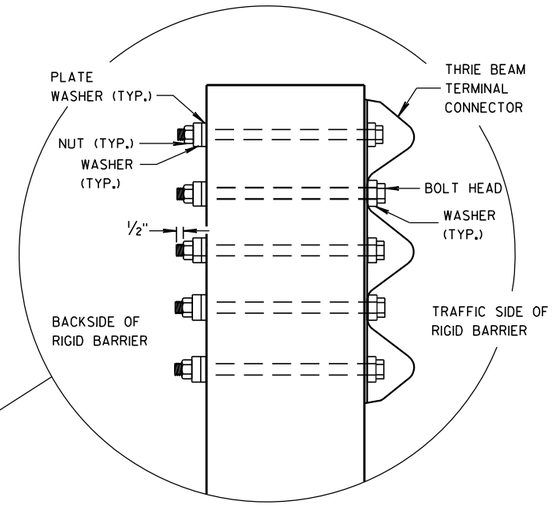
① DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

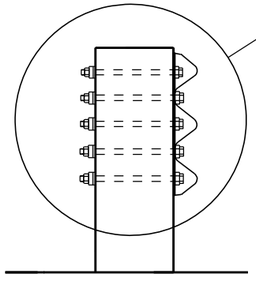
② BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM TERMINAL CONNECTOR. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X ⅝" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

③ THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 ½".

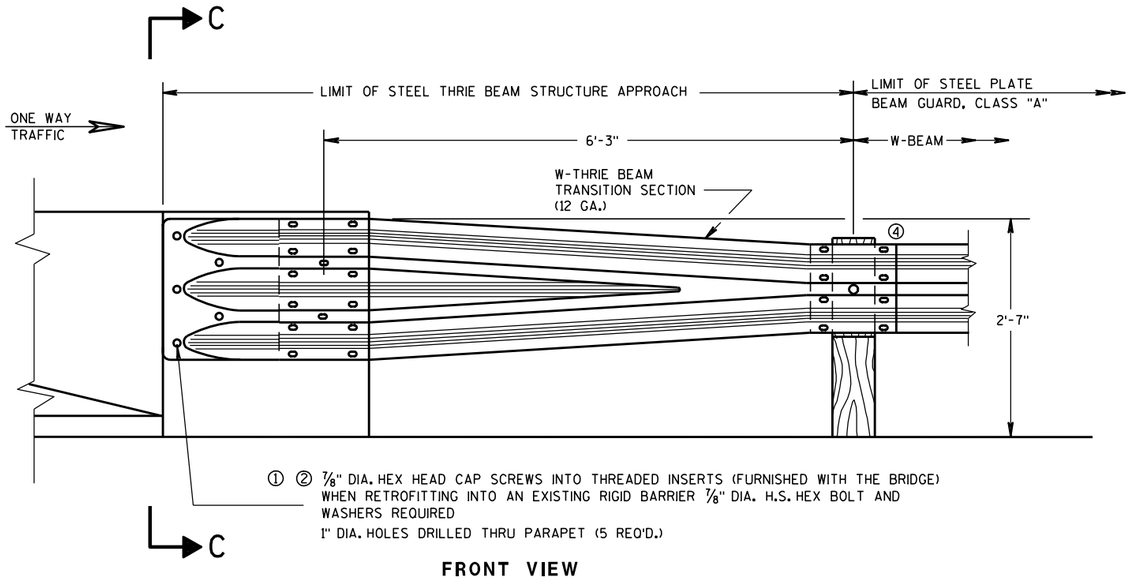
④ W6 X 9 OR W6 X 8.5 STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POST WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS.

DO NOT USE STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS IN THE STEEL THRIE BEAM STRUCTURAL APPROACH AND THE TRANSITION SECTION OF STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATIONS.





SECTION C-C



① ② ⅞" DIA. HEX HEAD CAP SCREWS INTO THREADED INSERTS (FURNISHED WITH THE BRIDGE) WHEN RETROFITTING INTO AN EXISTING RIGID BARRIER ⅞" DIA. H.S. HEX BOLT AND WASHERS REQUIRED
1" DIA. HOLES DRILLED THRU PARAPET (5 REQ'D.)

FRONT VIEW

W BEAM TRANSITION AND CONNECTION TO BRIDGE PARAPETS WITH SQUARE ENDS

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO SQUARE END PARAPETS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/31/2012
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS [375
ENGINEER
FHWA

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S.D.D. 14 B 20-11b

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

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

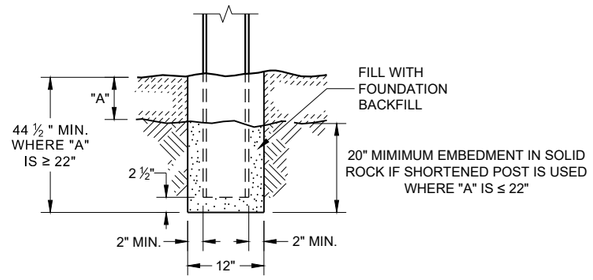
(3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL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

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

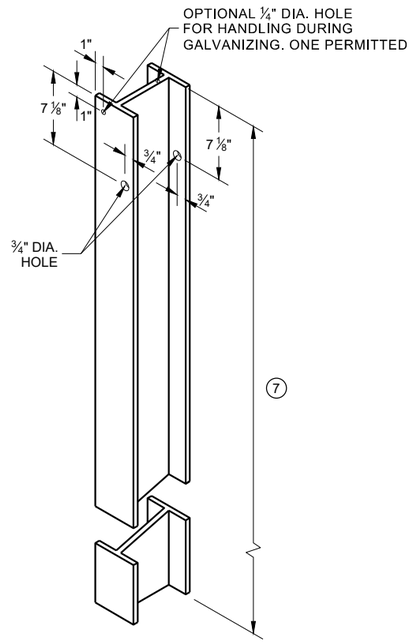
(5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS +1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 ¾" TO 32".

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

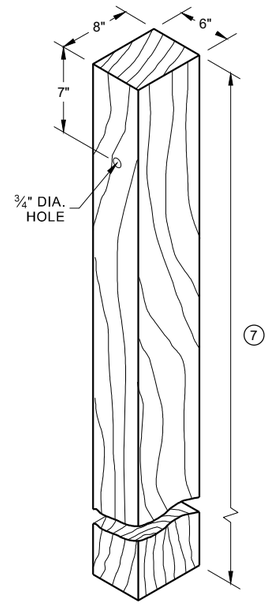
(7) TOTAL POST LENGTH FOR TYPE K IS 7' - 0".
TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' - 0".



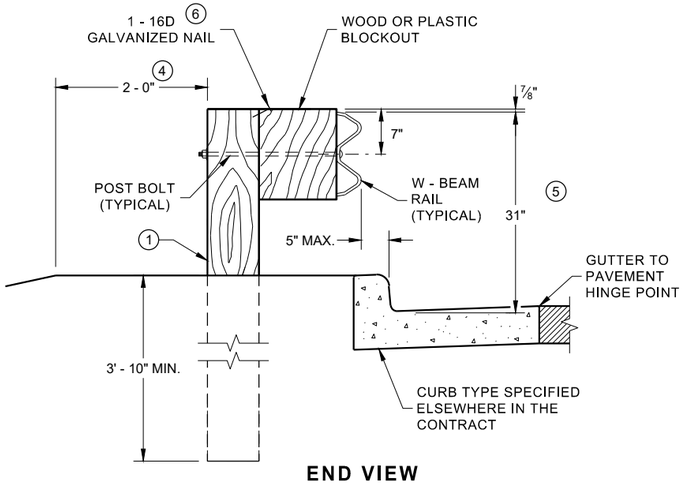
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (3)



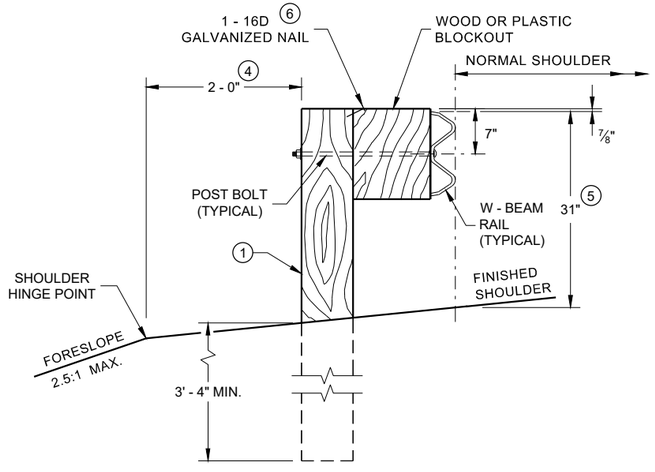
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



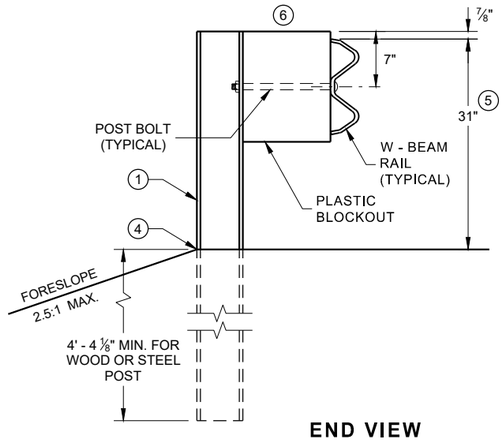
WOOD POST (6" X 8") NOMINAL (1)



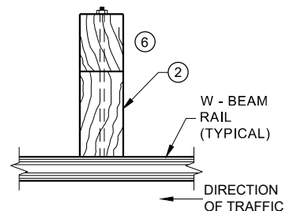
END VIEW
LOCATED ALONG A CURBED ROADWAY



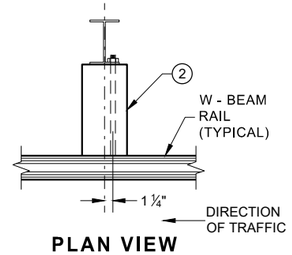
END VIEW
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



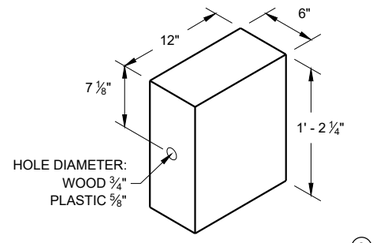
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



PLAN VIEW
STEEL POST, PLASTIC BLOCKOUT & BEAM



WOOD OR PLASTIC BLOCKOUT (2)

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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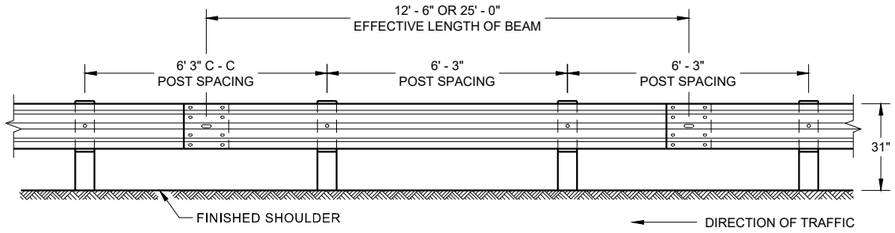
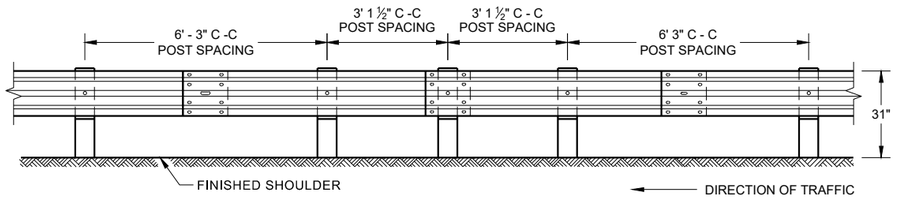
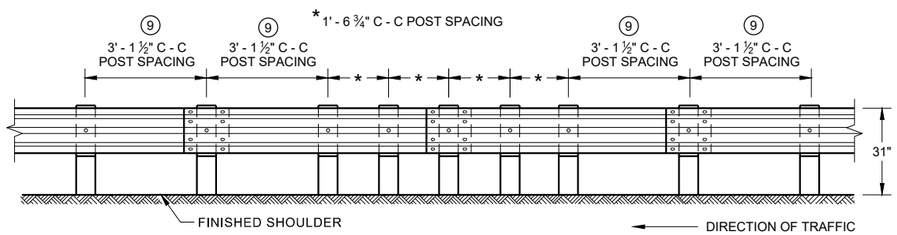


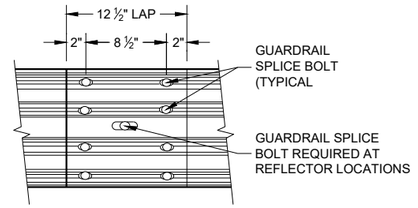
FRONT VIEW
POST SPACING STANDARD INSTALLATION



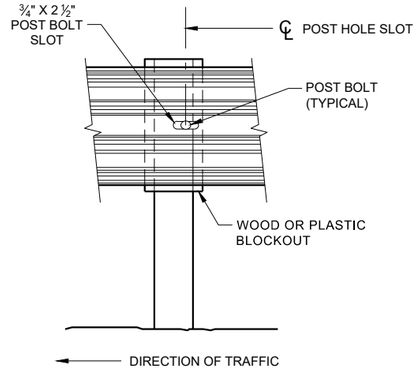
FRONT VIEW
HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)



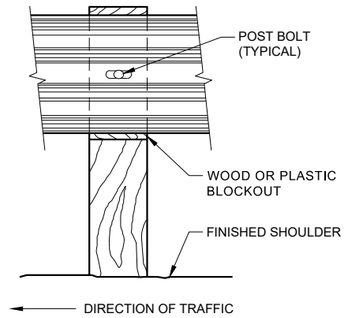
FRONT VIEW
QUARTER POST SPACING (QS)



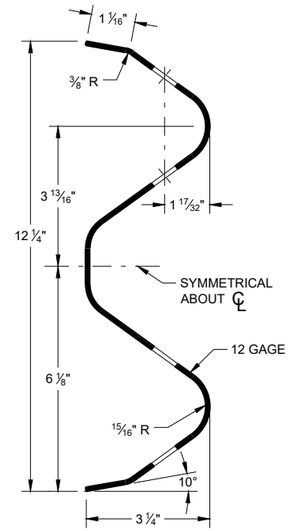
FRONT VIEW
MID-SPAN BEAM SPLICE



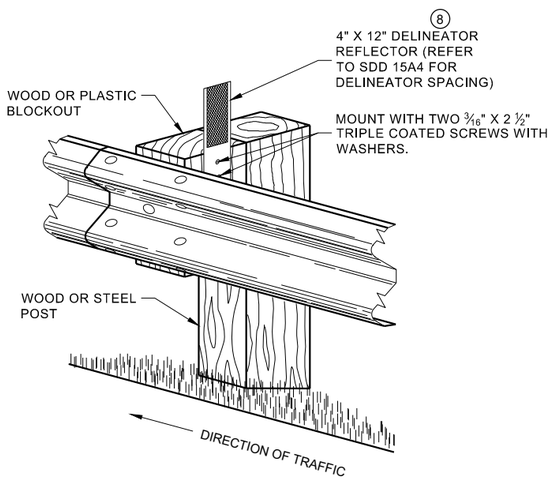
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

GENERAL NOTES

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

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

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

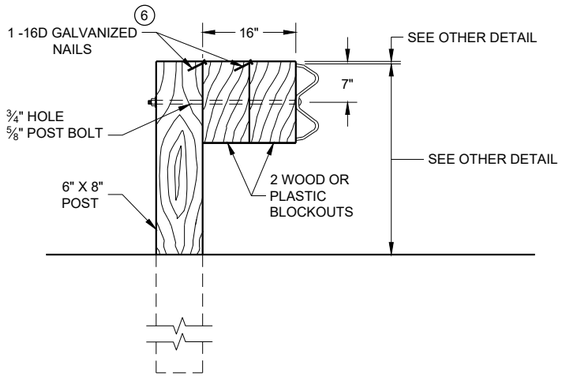
GUARD RAIL SPLICE BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 14B42 - 06b

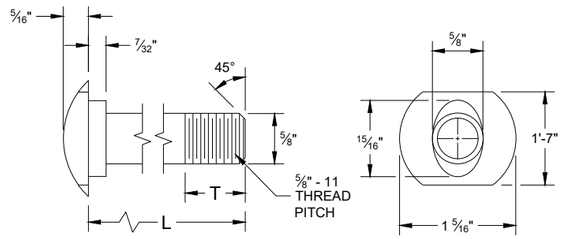


DETAIL FOR 16" BLOCKOUT DEPTH

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

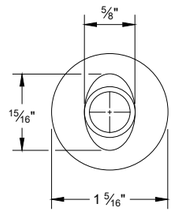
NOTE:

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

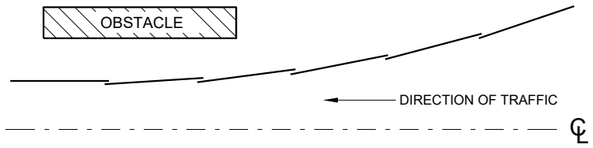


POST BOLT TABLE

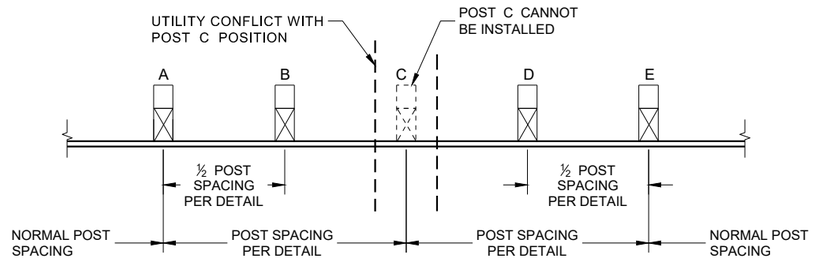
L	T (MIN.)
1 ¼"	1 ⅛"
2"	1 ¾"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



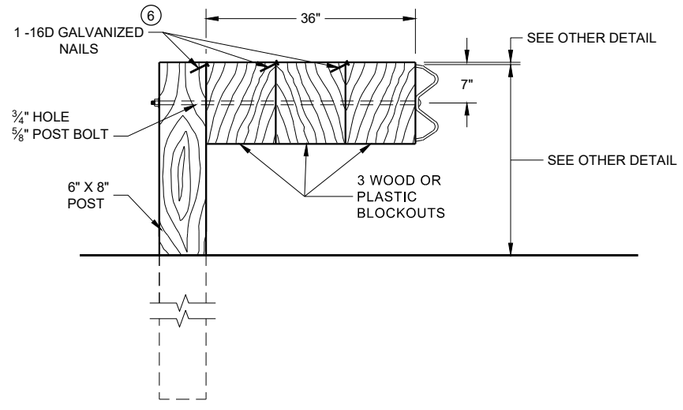
ALTERNATE BOLT HEAD



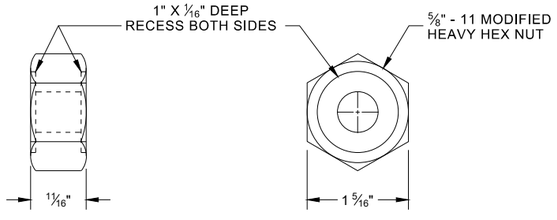
PLAN VIEW
BEAM LAPPING DETAIL



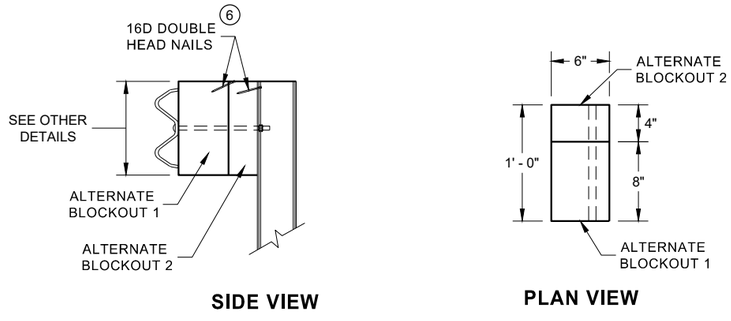
POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



DETAIL FOR 36" BLOCKOUT DEPTH



POST BOLT, SPLICE BOLT AND RECESS NUT



SIDE VIEW

PLAN VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

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

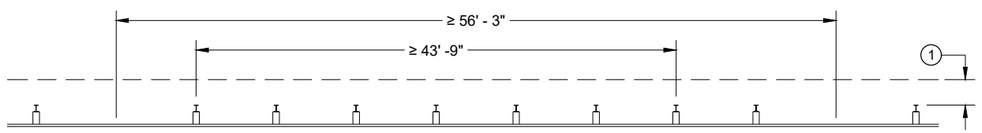
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

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

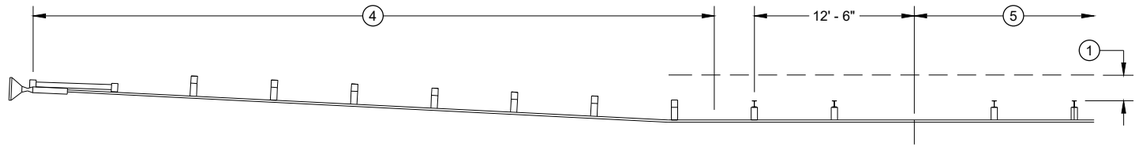
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

6

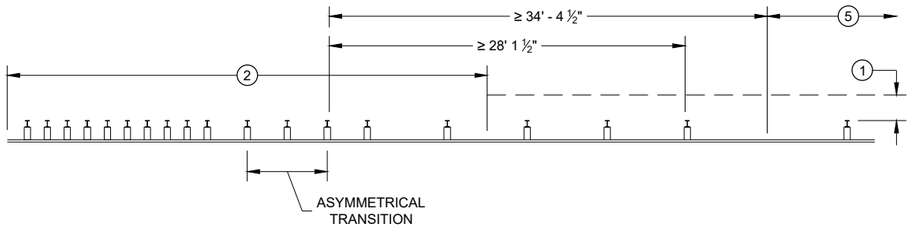
SDD 14B42 - 06c



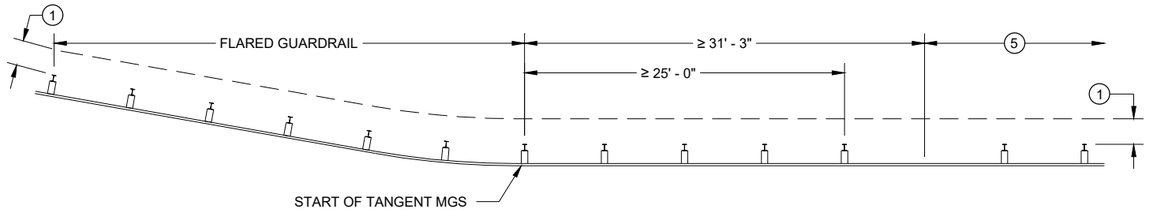
MISSING POST IN NORMAL BEAM GUARD RUN



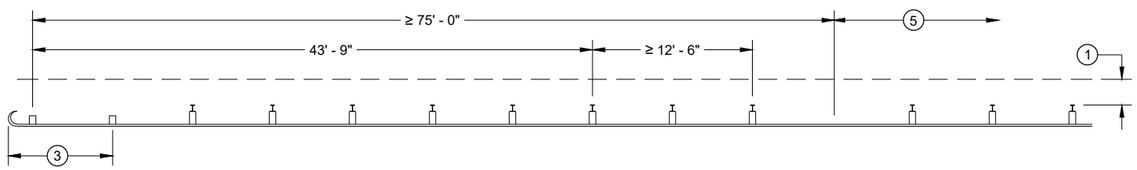
MISSING POST IN NORMAL BEAM GUARD RUN NEAR EAT



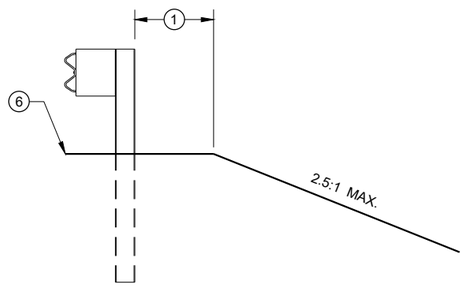
MISSING POST NEAR APPROACH THRIE BEAM TRANSITION



MISSING POST IN NORMAL BEAM GUARD RUN NEAR FLARED BEAM GUARD



MISSING POST IN NORMAL BEAM GUARD RUN NEAR TYPE 2 TERMINAL



CROSS SECTION VIEW

1. MINIMUM OF 2 FEET OF GRADING BEHIND POST.
2. SEE SDD 14B45 FOR MORE DETAILS.
3. SEE SDD 14B47 FOR MORE DETAILS.
4. SEE SDD 14B44 FOR MORE DETAILS.
5. SEE MISSING POST IN NORMAL BEAM GUARD RUN FOR DISTANCE TO NEXT MISSING POST AND AREA FOR WELL DRAINED, COMPACTED SOILS.
6. SEE PLAN FOR SHOULDER DESIGN.

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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SDD 14B42 - 06d

GENERAL NOTES

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

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

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

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

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

DIMENSIONS MAY VARY, MANUFACTURER'S INFORMATION.

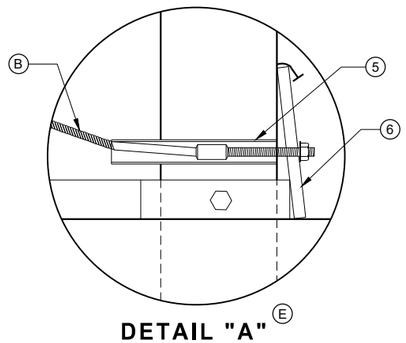
SEE SDD 14B42 FOR MORE INFORMATION.

* DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

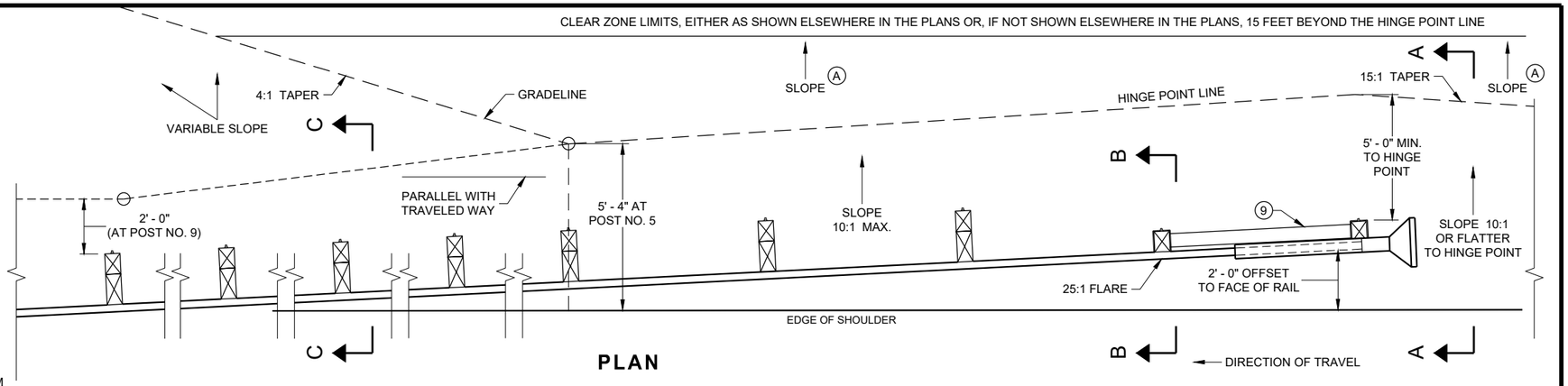
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

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

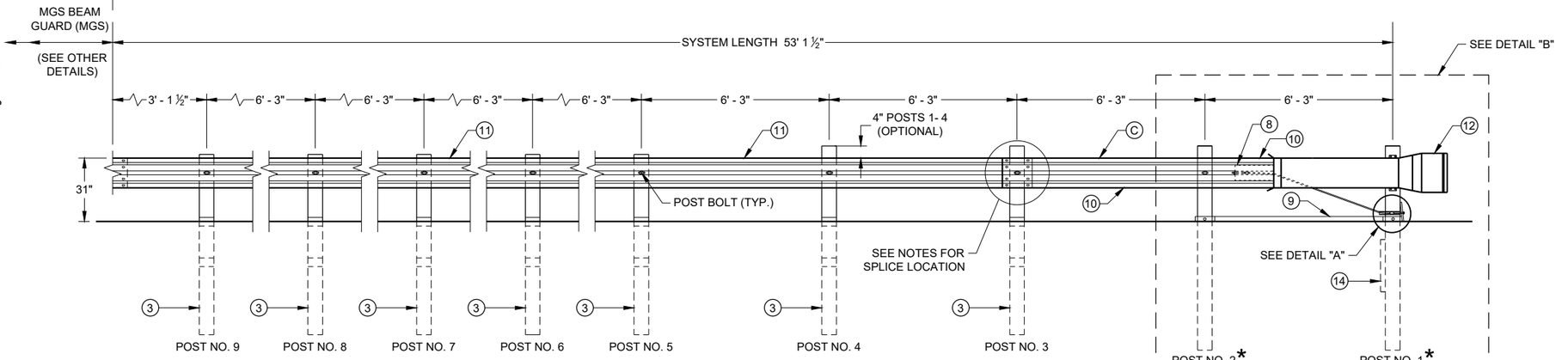
THE CENTER OF THE UPPER 3 ½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE. WOOD BLOCKS ON POSTS NUMBERED 3 THROUGH 9 MAY BE ADJUSTED UP TO 3" ABOVE THE TOP OF POST.



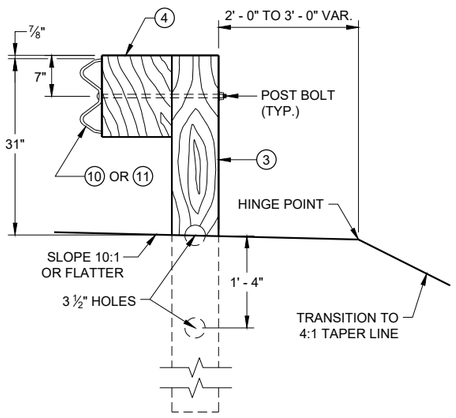
DETAIL "A" (E)



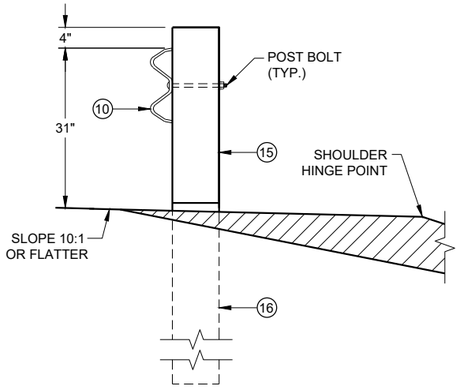
PLAN



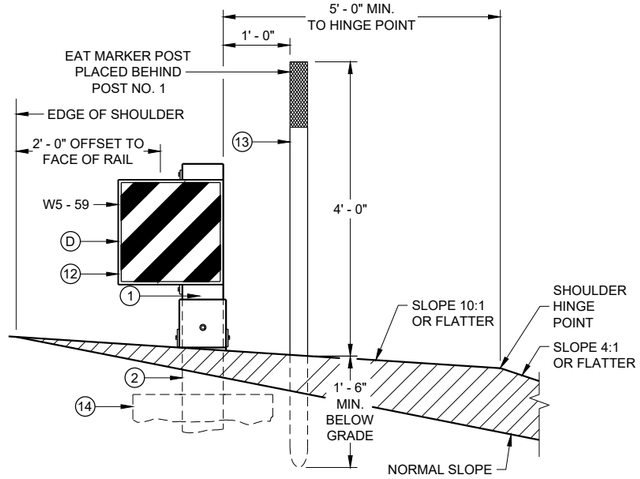
ELEVATION



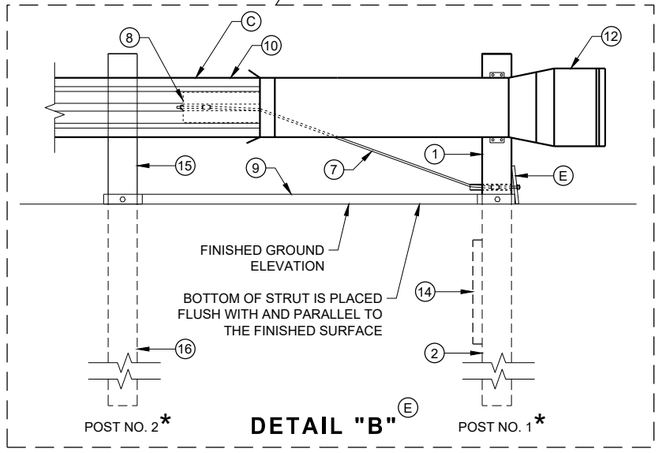
SECTION C - C
TYPICAL AT POST NOS. 3 - 9



SECTION B - B
TYPICAL AT POST NO. 2*



SECTION A - A
TYPICAL AT POST NO. 1*



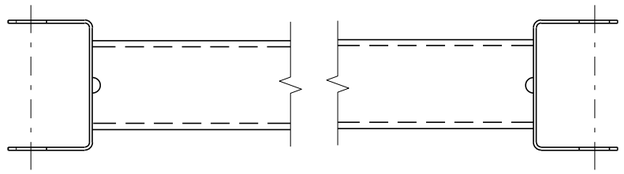
DETAIL "B" (E)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B44 - 04a

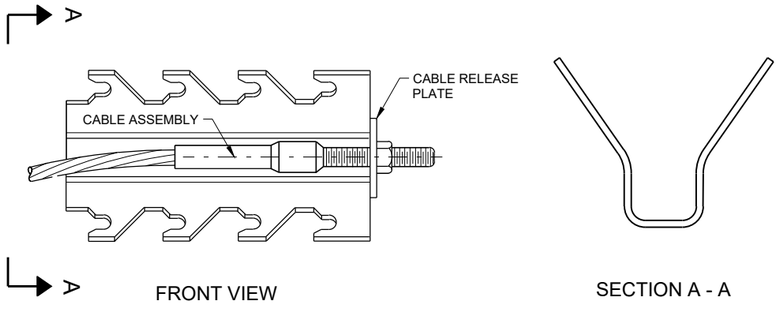
SDD 14B44 - 04a



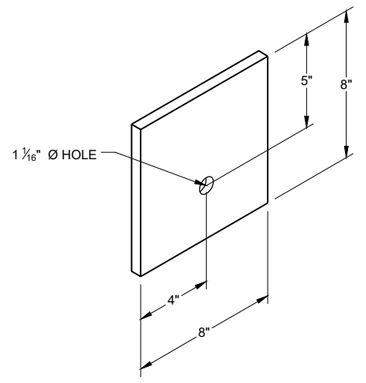
GENERIC GROUND STRUT ⑨ Ⓔ

BILL OF MATERIALS

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



GENERIC ANCHOR CABLE BOX ⑨ Ⓔ



BEARING PLATE ⑥ Ⓔ

6

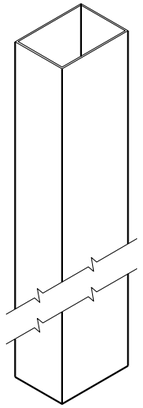
6

SDD 14B44 - 04b

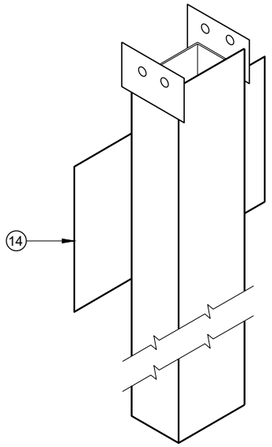
SDD 14B44 - 04b

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

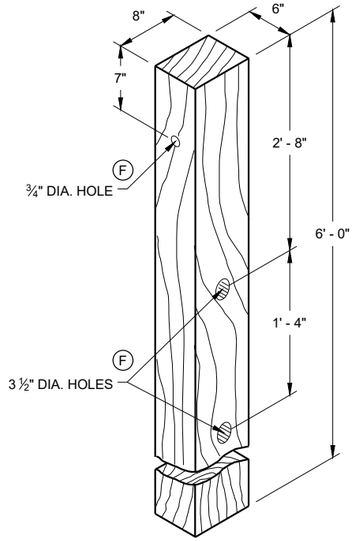
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



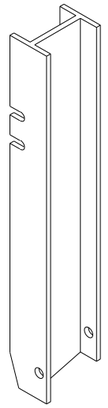
UPPER POST NO. 1 (1) (E)



LOWER POST NO. 1 (2) (E)



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



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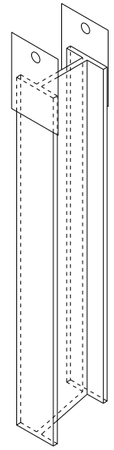

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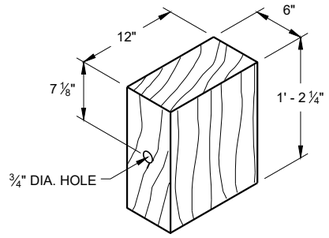
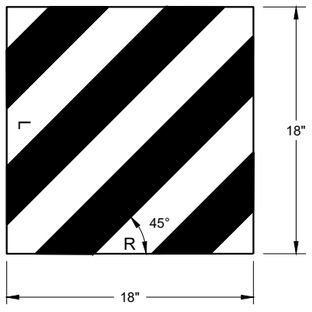
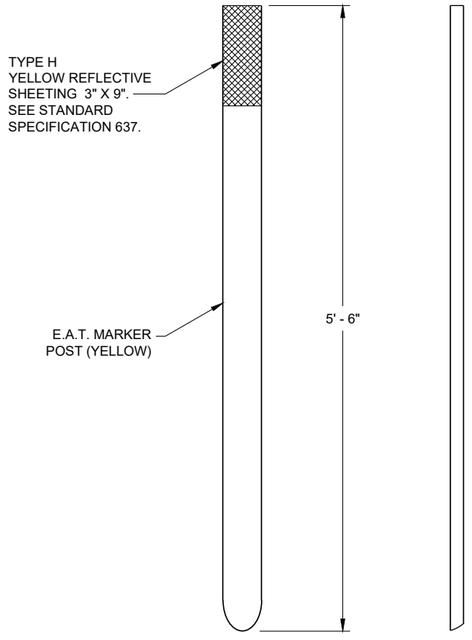


WOOD BLOCKOUT (4)
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



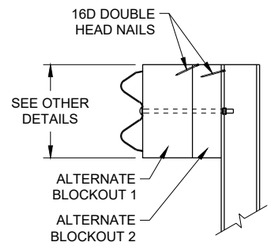
W5 - 59

REFLECTIVE SHEETING DETAIL (E)

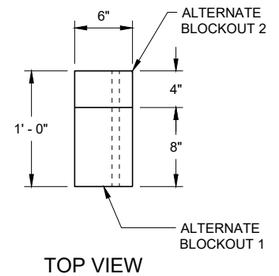


FRONT VIEW SIDE VIEW

E.A.T. MARKER POST (13)



SIDE VIEW



TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

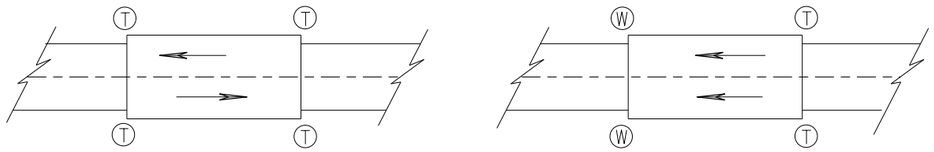
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

FHWA

6

SDD 14B44 - 04c



TWO WAY TRAFFIC

ONE WAY TRAFFIC

(T) THRIE BEAM CONNECTION

(W) W-BEAM CONNECTION WHEN REQUIRED

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

GENERAL NOTES

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

TRANSITION USES STEEL POSTS ONLY.

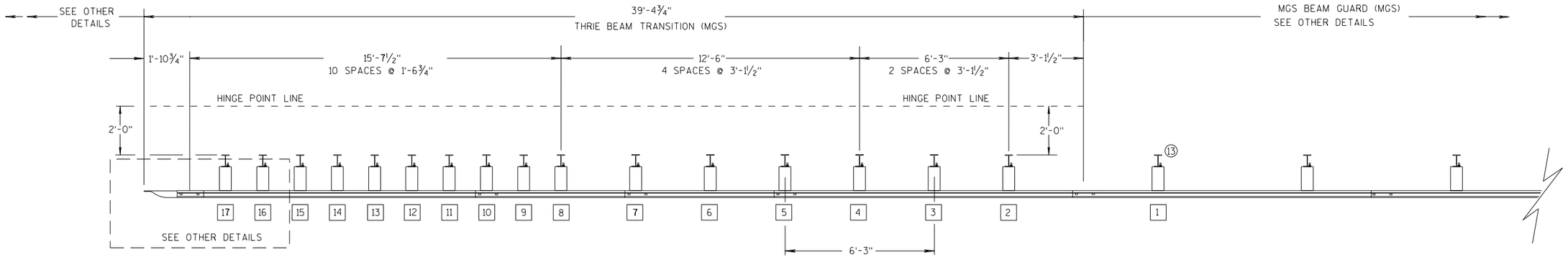
SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

POST 2 THROUGH 17 USES STEEL POST ONLY

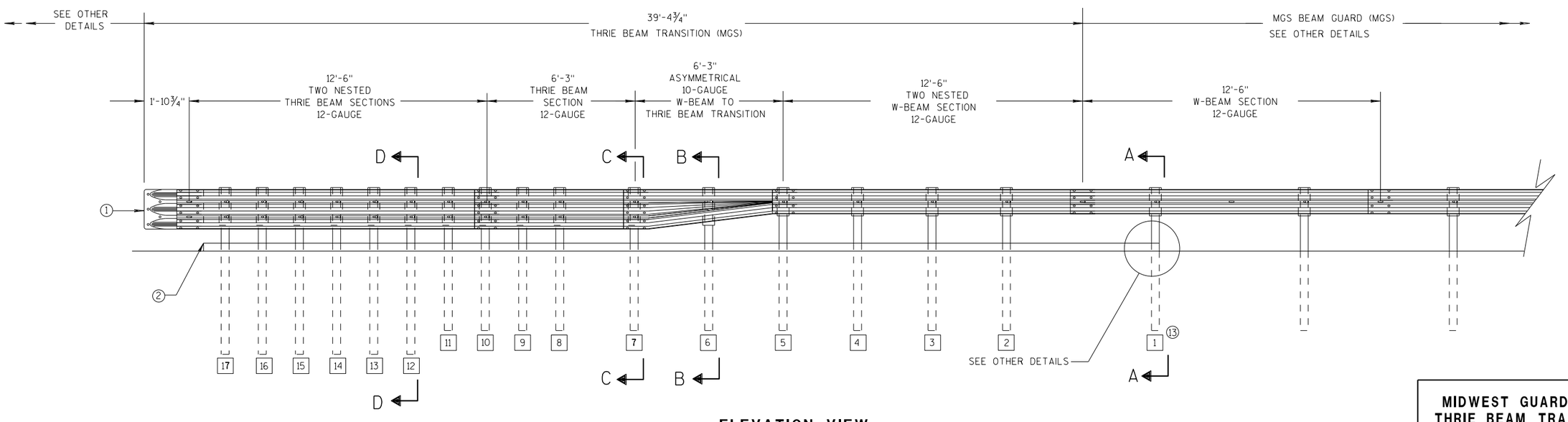
(1) BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.

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

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD14B42



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 14 B 45-5a

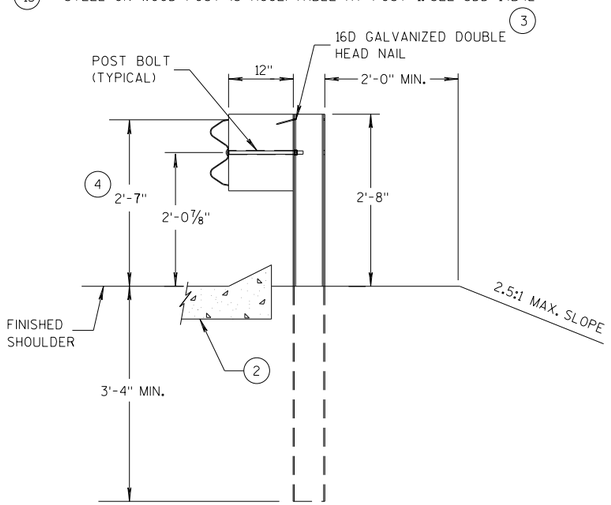
GENERAL NOTES

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

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

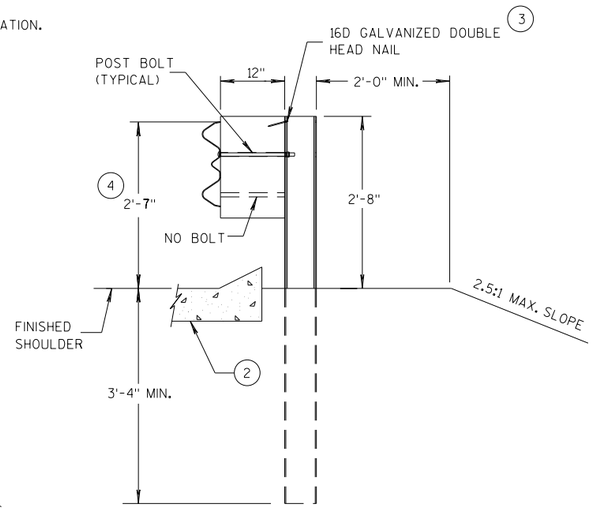
(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42



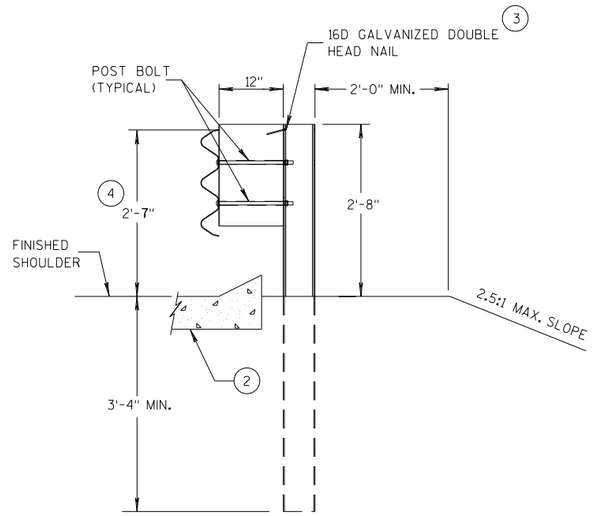
SECTION A-A (13)

POSTS 1-5



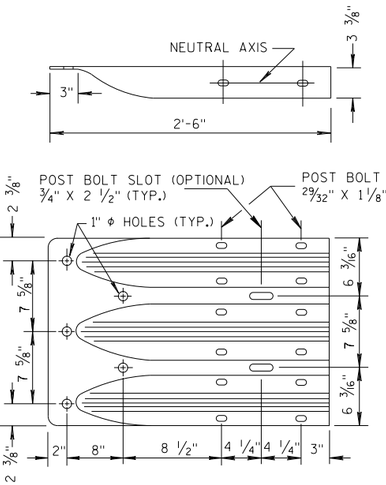
SECTION B-B

POST 6

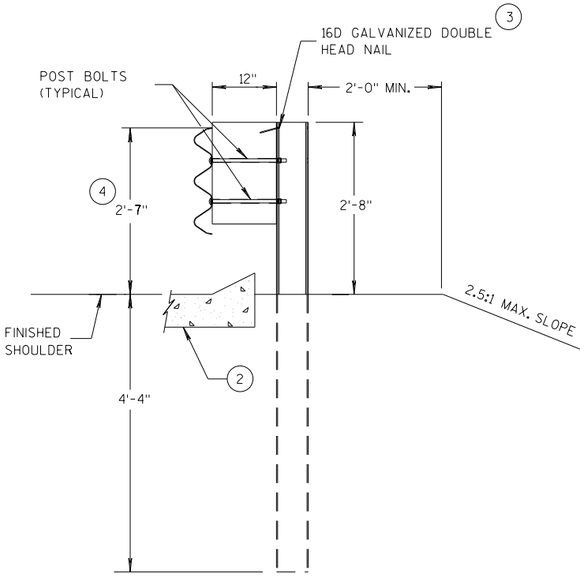


SECTION C-C

POSTS 7-11

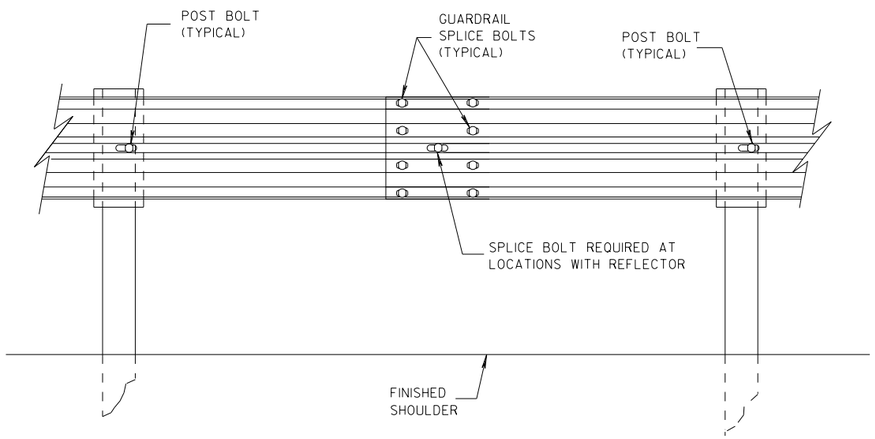


THRIE BEAM TERMINAL CONNECTOR



SECTION D-D

POSTS 12-17



SPLICE DETAIL

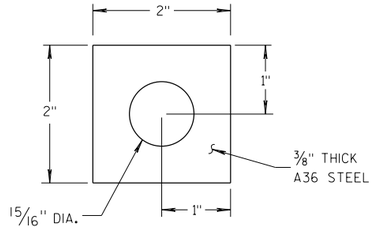
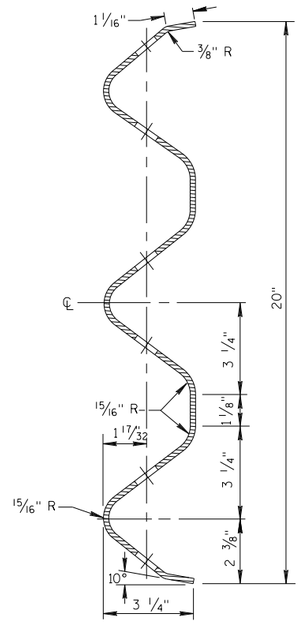


PLATE WASHER DETAIL



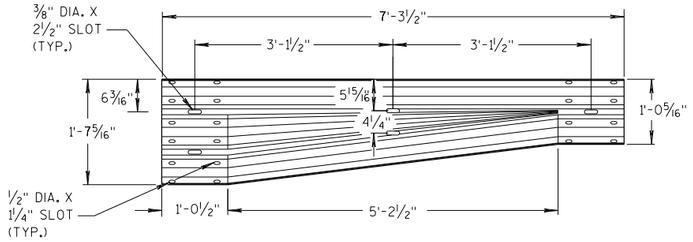
SECTION THRU THRIE BEAM RAIL ELEMENT

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

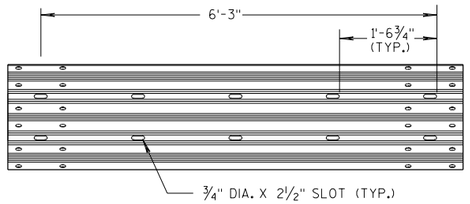
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOF

6

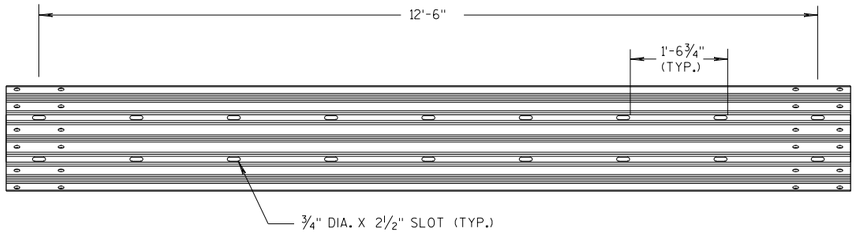
S.D.D. 14 B 45-5b



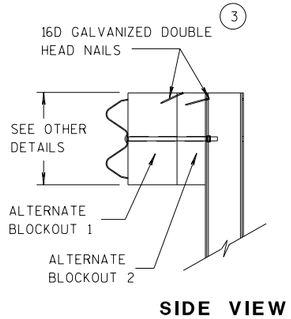
W-BEAM TO THRIE BEAM TRANSITION SECTION



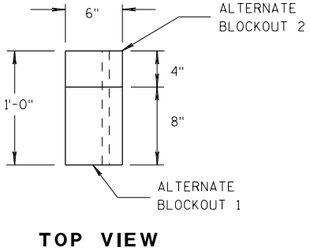
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

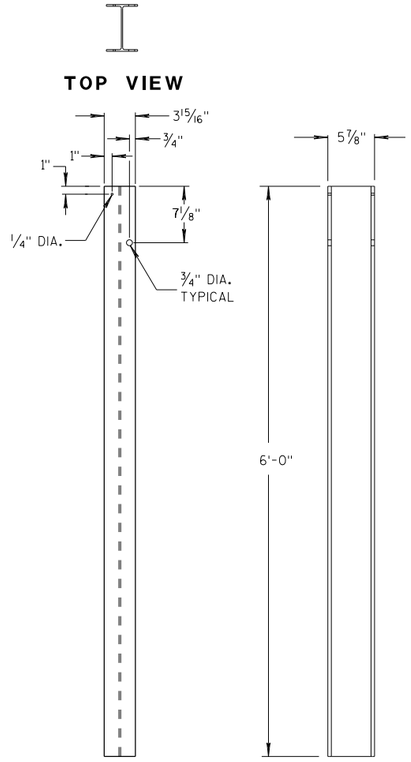


SIDE VIEW



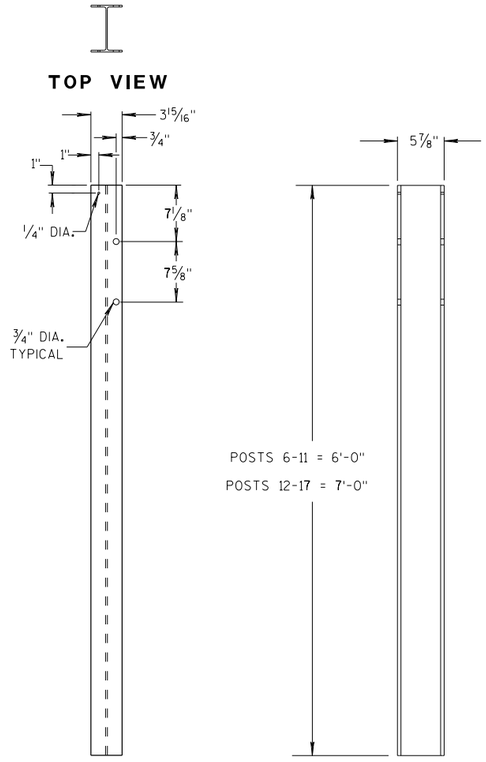
TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL



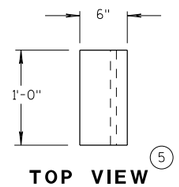
FRONT VIEW SIDE VIEW

STEEL POSTS 1-5 (13)

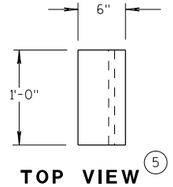


FRONT VIEW SIDE VIEW

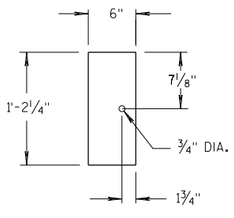
STEEL POSTS 6-17



TOP VIEW (5)

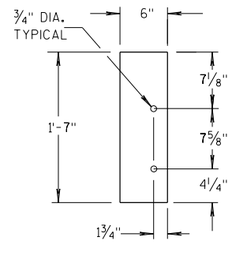


TOP VIEW (5)



FRONT VIEW

BLOCKOUT POSTS 1-5



FRONT VIEW

BLOCKOUT POSTS 6-17

GENERAL NOTES

STEEL POSTS ARE W6X9 OR W6X8.5.

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

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

(5) WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.

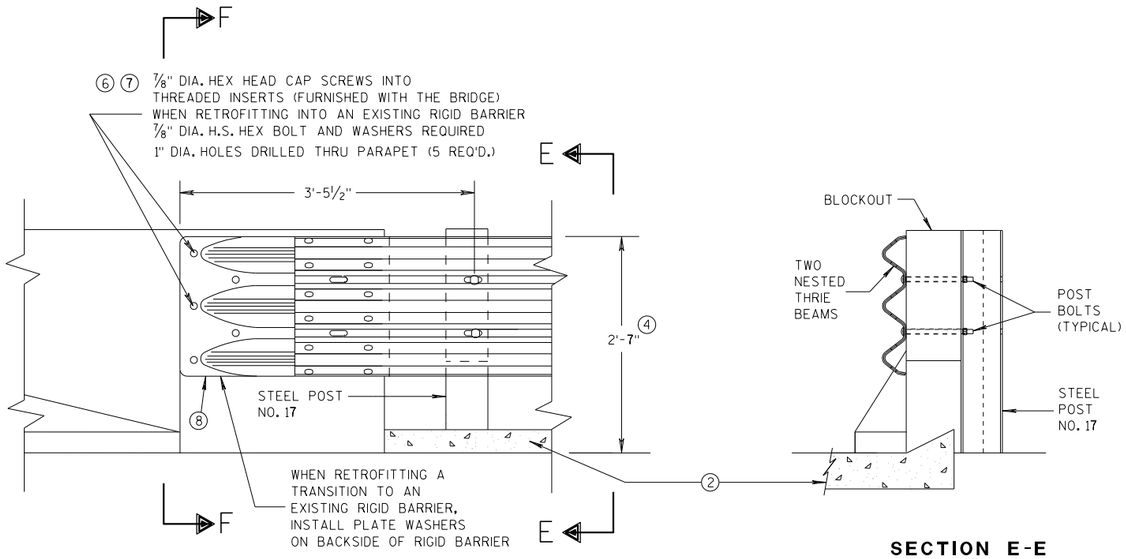
(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOF

6

S.D.D. 14 B 45-5c



FRONT VIEW

SECTION E-E

THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

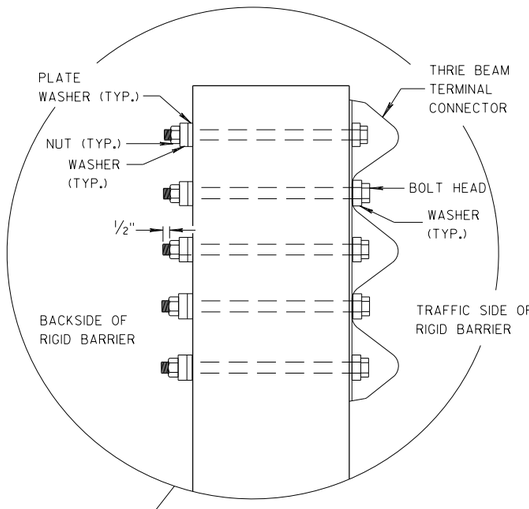
② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

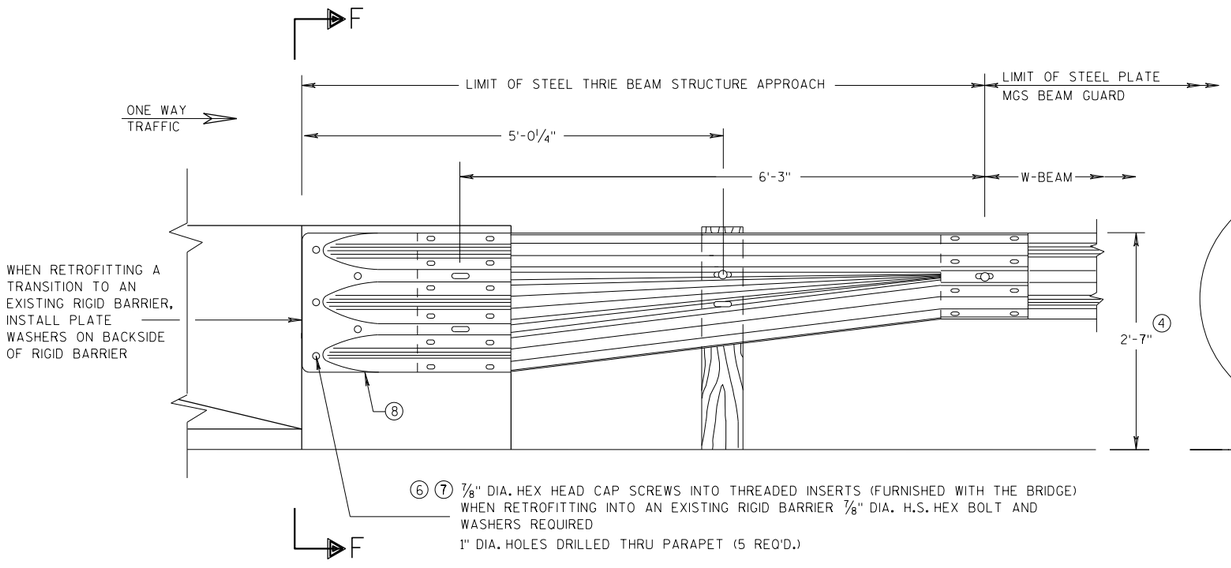
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

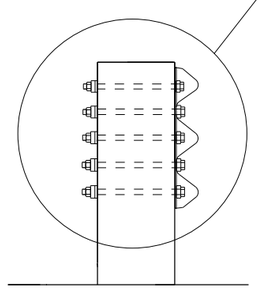
⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

⑧ THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".

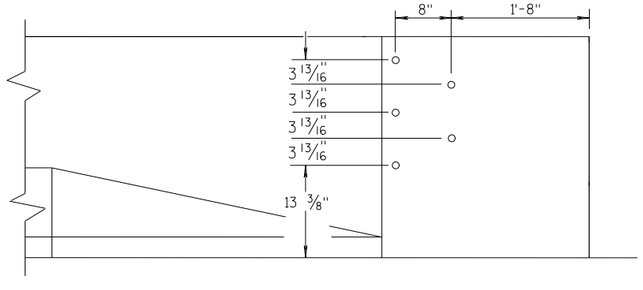




FRONT VIEW



SECTION F-F



DRILL HOLE LOCATION

W BEAM TRANSITION AND CONNECTION TO BRIDGE PARAPETS WITH SQUARE ENDS

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
07/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS D[illegible] UNIT SUPERVIS[illegible]NT
FHWA

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S.D.D. 14 B 45-5d

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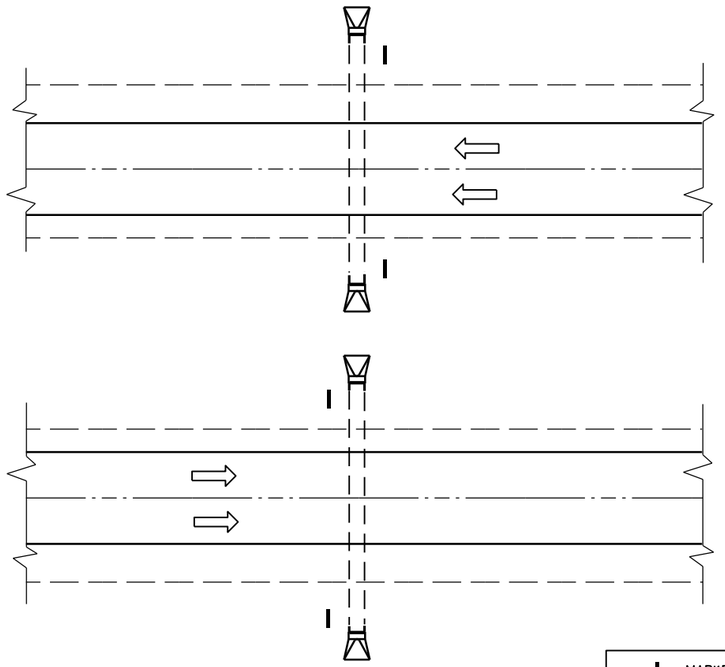
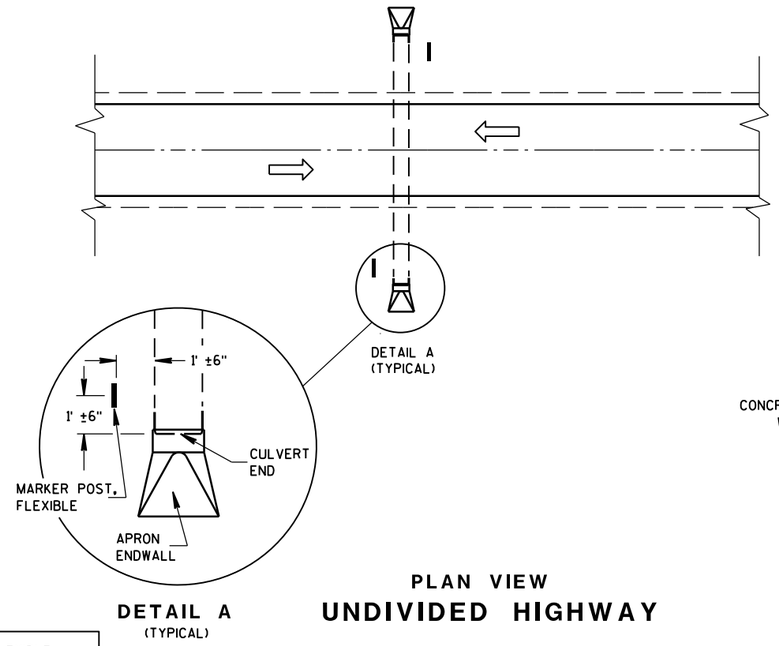
S.D.D. 14 B 45-5d



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

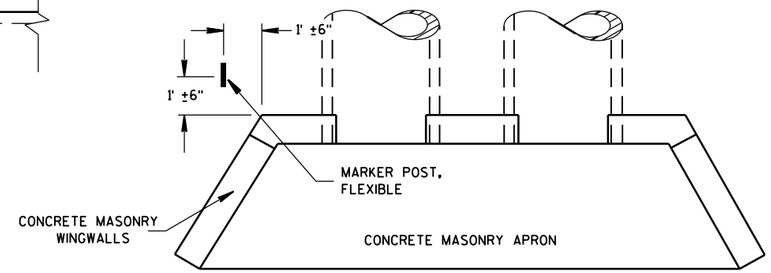
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

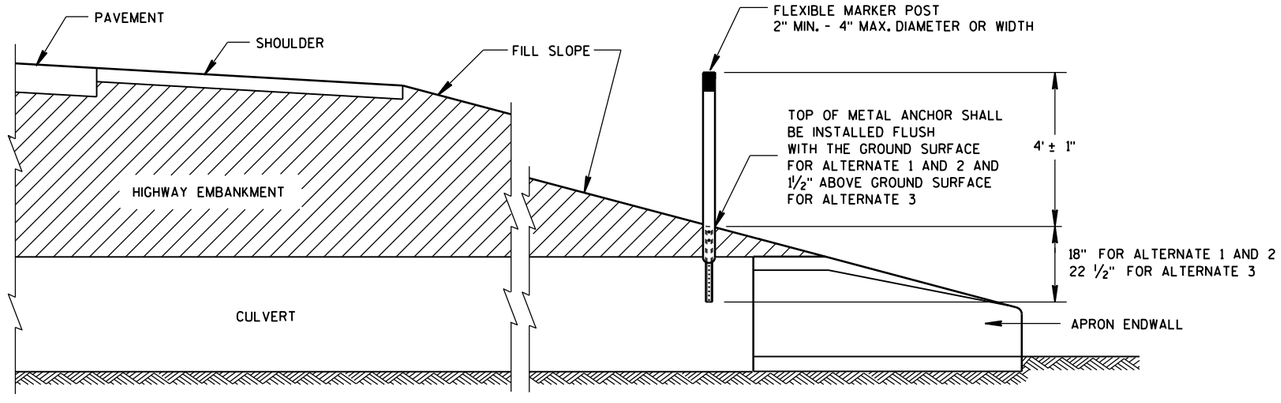
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

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

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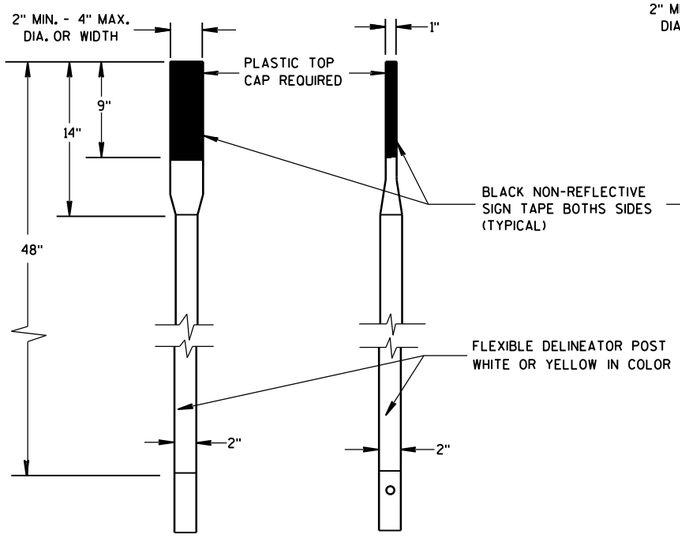
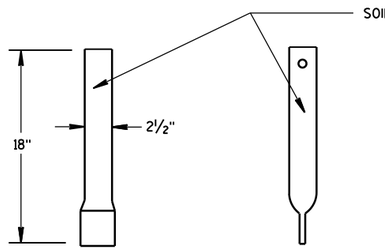
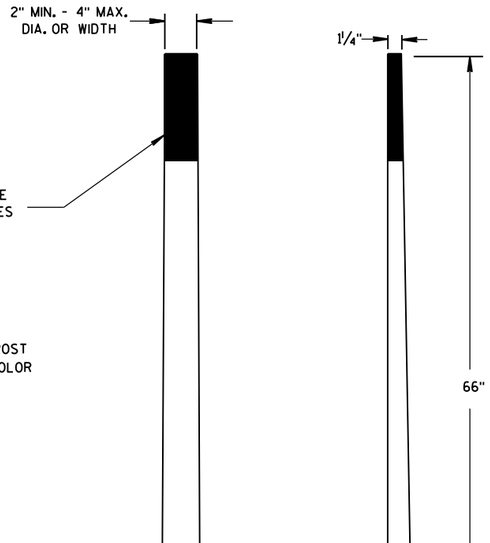
S.D.D. 15 A 3-2a





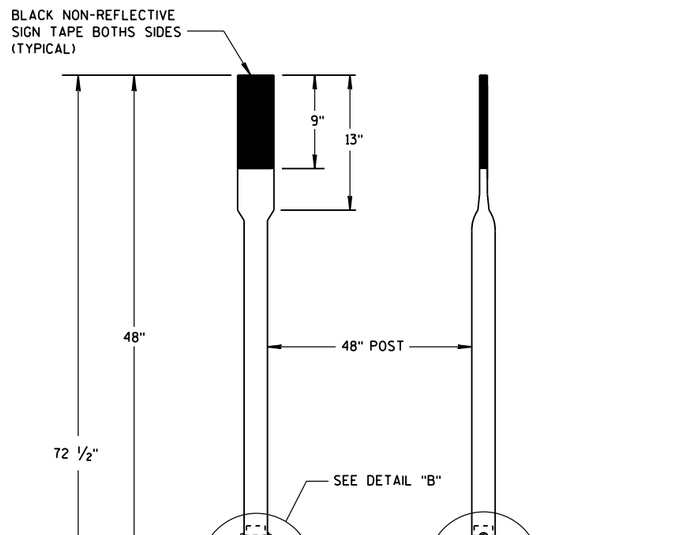
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

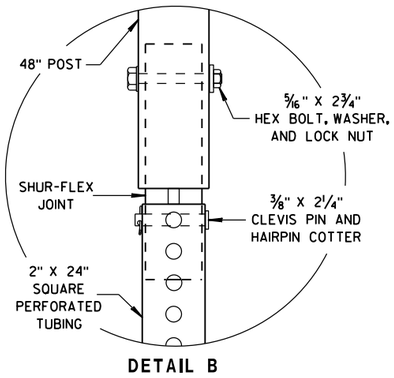
ALTERNATE 2



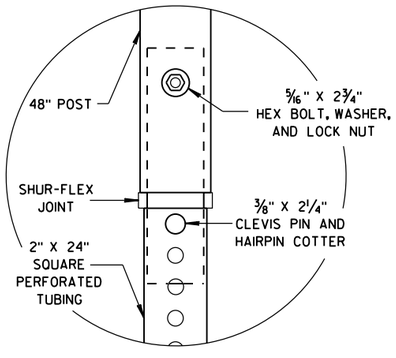
FRONT VIEW SIDE VIEW

ALTERNATE 3

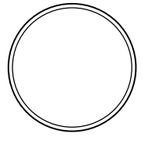
FLEXIBLE MARKER POSTS



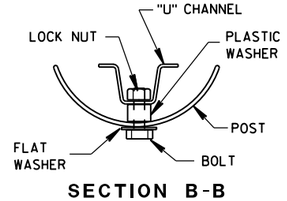
DETAIL B



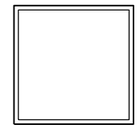
DETAIL C



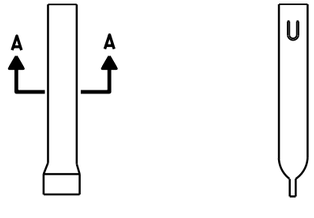
SECTION A-A



SECTION B-B

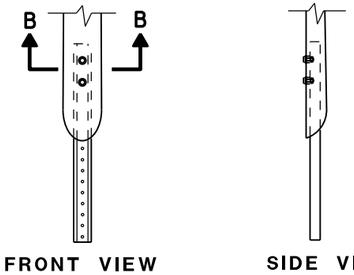


SECTION C-C



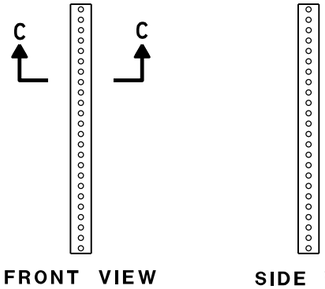
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

ALTERNATE 2



FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/1/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
388
IGN
FHWA

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

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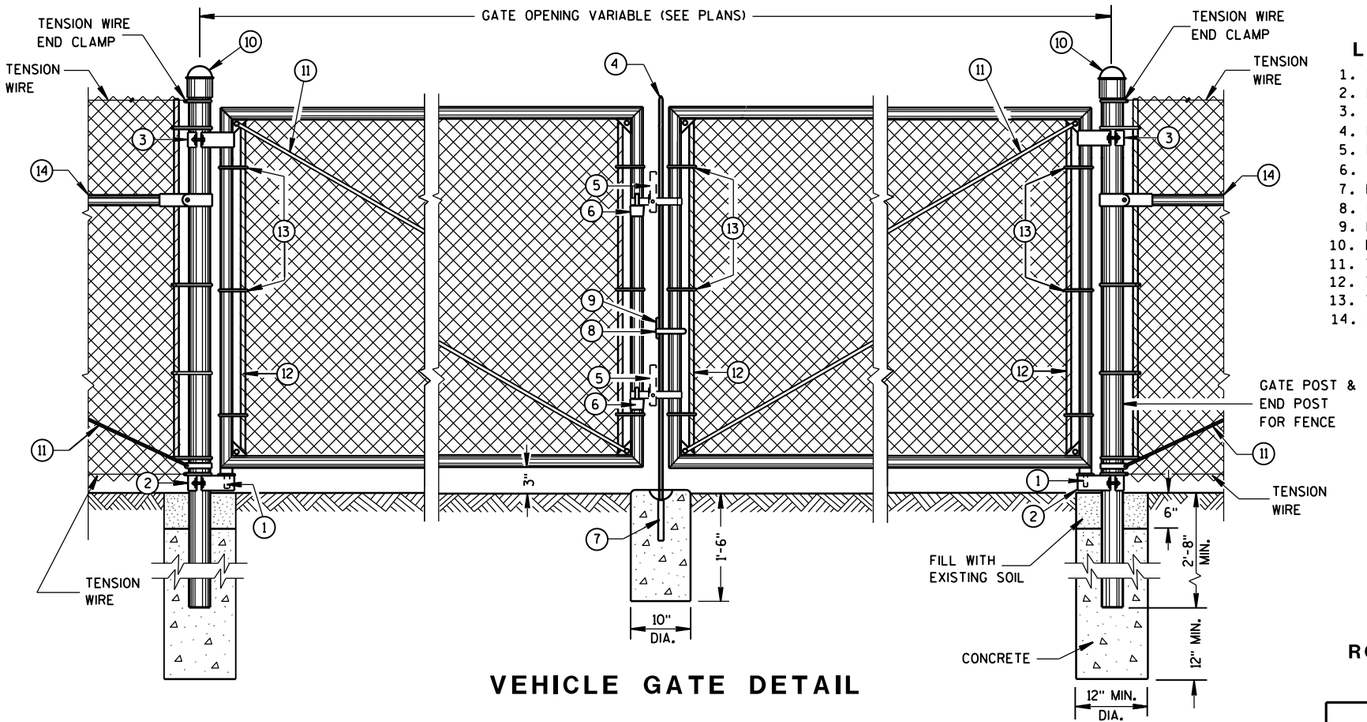
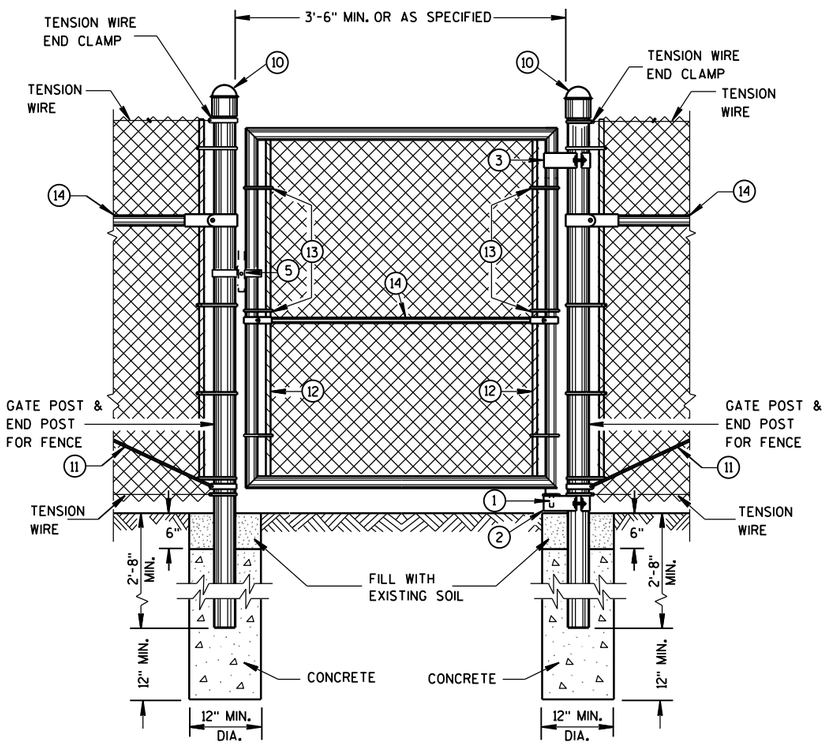
S.D.D. 15 A 3-2b



VEHICLE GATE DETAIL



PEDESTRIAN GATE DETAIL

LEGEND

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

*NOT REQUIRED ON SINGLE SWING PEDESTRIAN GATE

GENERAL NOTES

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

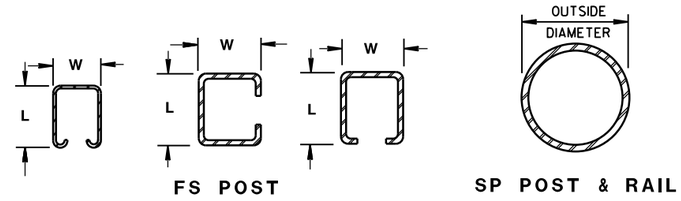
USE FENCE FABRIC KNUCKLED AT BOTH SELVAGES.

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

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

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

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



FS POST — SP POST & RAIL

CROSS SECTIONS OF POSTS AND RAILS

REQUIRED FENCE POST SIZES

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

BRACE RAIL TYPES

USE		TYPE
BRACE RAIL		SP1 OR FS1

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

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

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

REQUIRED POST SIZE FOR GATES

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

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

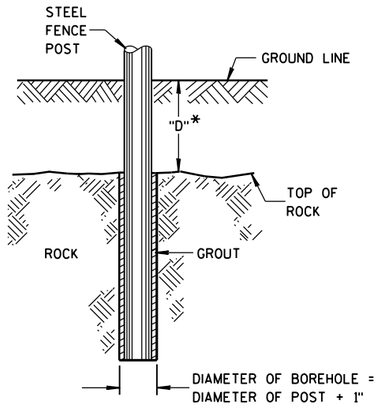
POST TYPE	OUTSIDE DIMENSION INCH	WALL THICKNESS INCH	WEIGHT LBS/FT
SP1	1.660	0.140	2.270
SP2	1.900	0.145	2.720
SP3	2.375	0.154	3.650
SP4	2.875	0.203	5.800
SP5	4.000	0.226	9.120
SP6	6.625	0.280	18.990
SP7	8.625	0.322	28.580

FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

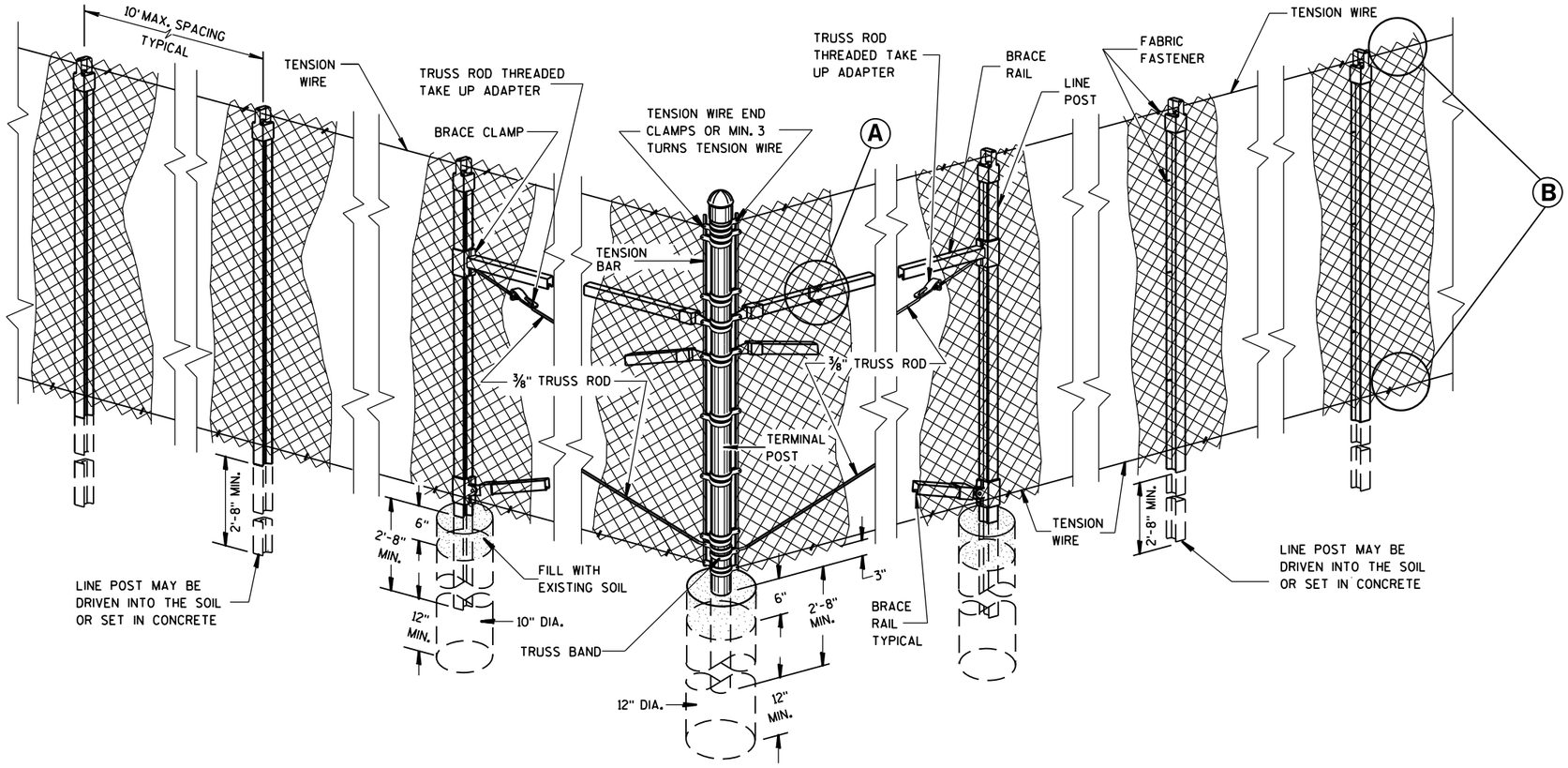
6

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

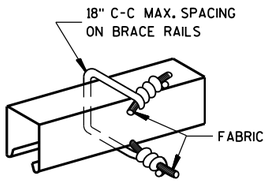


*IF "D" IS LESS THAN 2'-6", DRILL ROCK AND INSTALL GROUT

ROCK INSTALLATION OF LINE POST



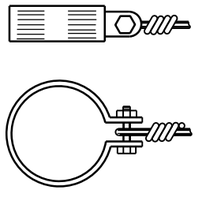
END, CORNER, ANGLE INTERSECTION & INTERMEDIATE BRACED POSTS



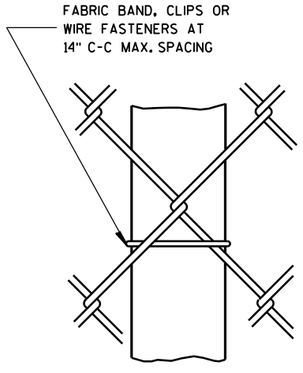
BRACE RAIL

FABRIC FASTENER

Ⓐ



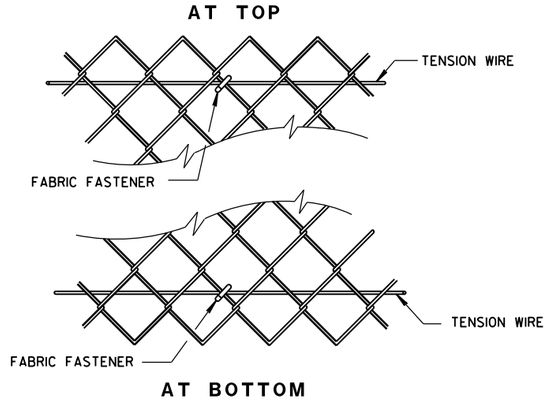
TENSION WIRE END CLAMP



LINE POST

FABRIC FASTENER

AT TOP



AT BOTTOM

SELVAGES

Ⓑ

FENCE CHAIN LINK

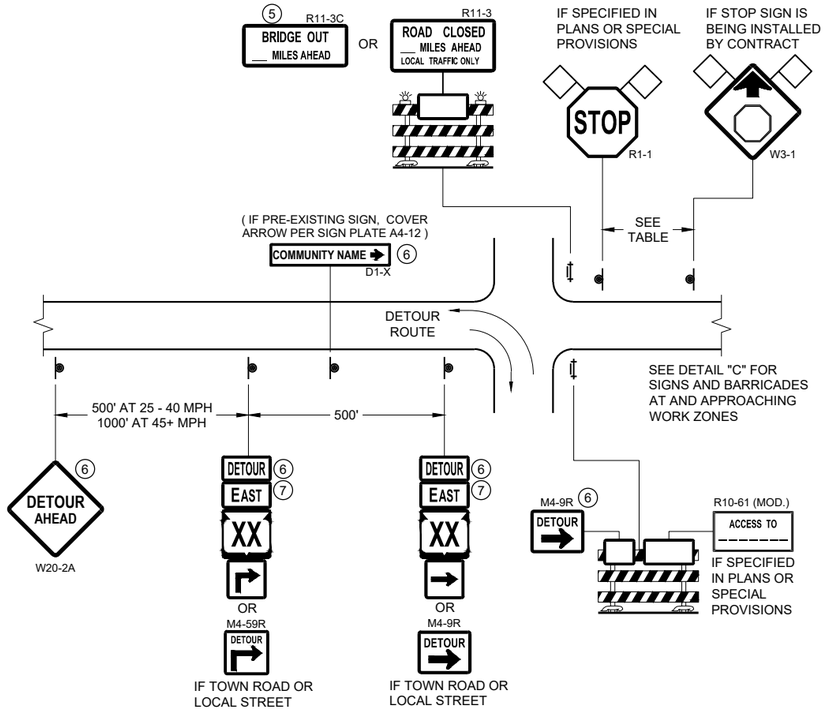
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

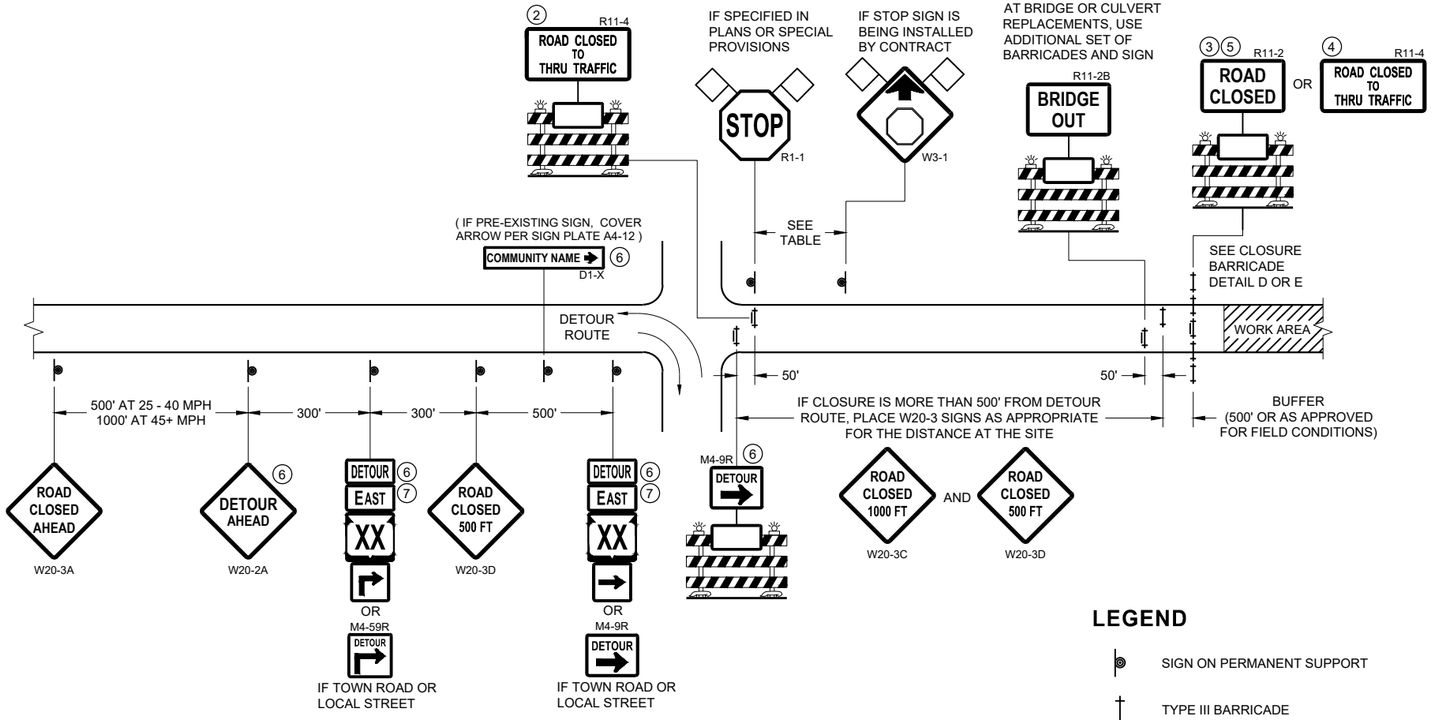
APPROVED
FEB. 2015 DATE
FHWA
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

390

6

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



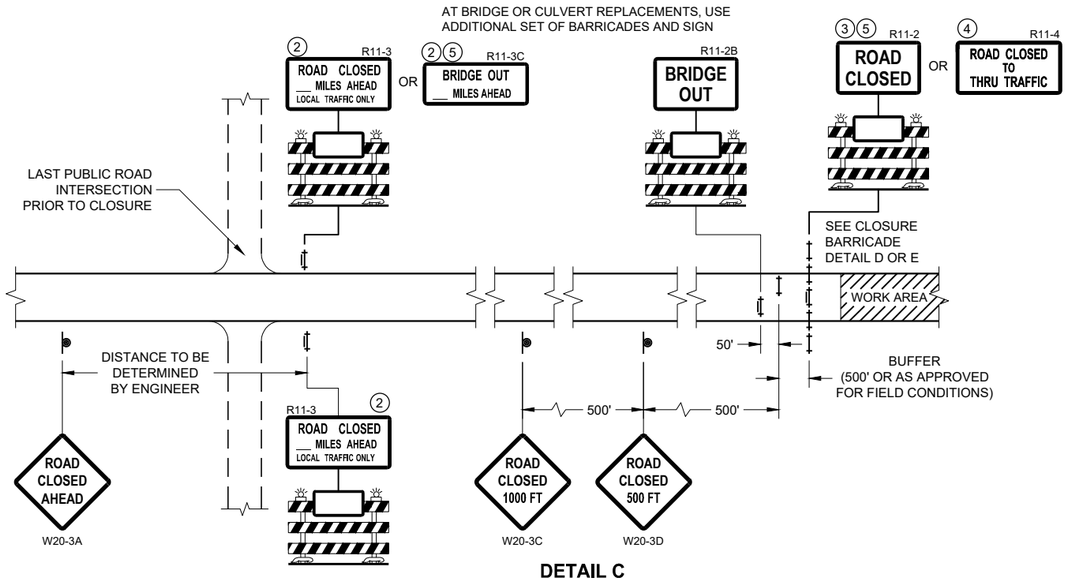


DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

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

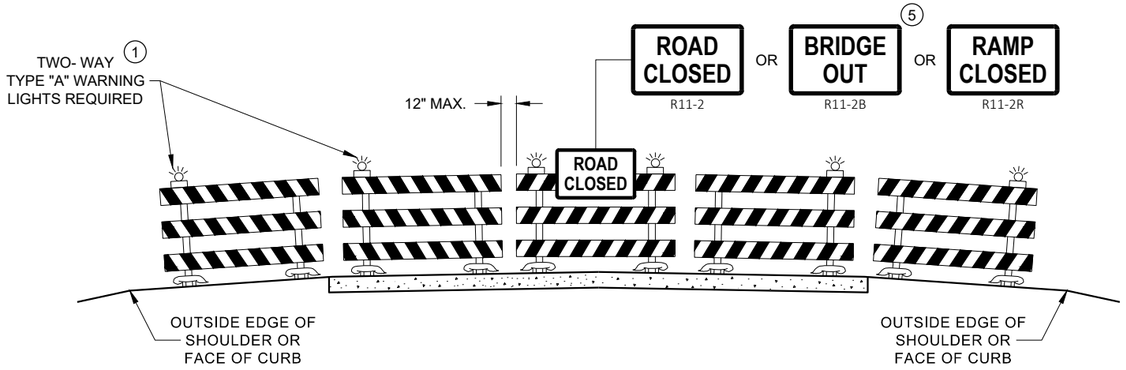
APPROVED
November 2018
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

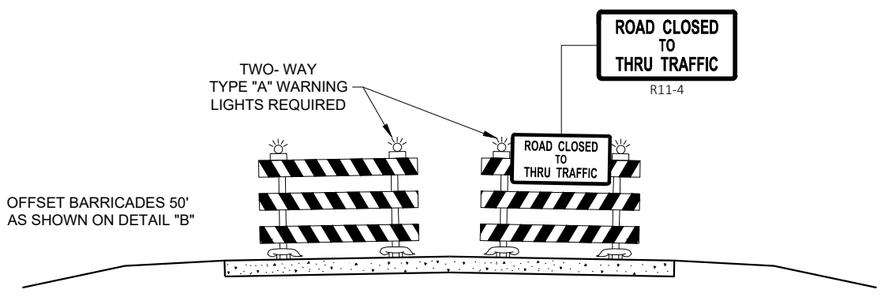
6

SDD 15C02 - 07a

SDD 15C02 - 07a



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
November 2018
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER
FHWA

6

SDD 15C02 - 07b

6

SDD 15C02 - 07b

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" (30" X 30" 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.

M3-X 24" X 12"
M1-X 24" X 24"
DETOUR AHEAD
W20-2A
USE ON STATE TRUNK, U.S. OR INTERSTATE HIGHWAYS, OR AS SPECIFIED IN THE CONTRACT

500' AT 25-40 MPH
1000' AT 45+ MPH

500'

DETOUR EAST XX *
D1-X COMMUNITY NAME *
(IF PRE-EXISTING SIGN, COVER ARROW PER SIGN PLATE A4-12)

M4-8a END DETOUR WEST XX *

DETOUR EAST XX WEST XX

DETOUR ROUTE

WORK AREA

DETOUR EAST XX

WEST XX OR M4-9L DETOUR ** IF TOWN ROAD OR LOCAL STREET

500'

DETOUR NEXT X MILES * G20-51

DETOUR WEST XX * OR M4-59L DETOUR ** IF TOWN ROAD OR LOCAL STREET

SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD SHEET 15C02 - SHEET "a"

MATCH POINT

* M4-59L DETOUR ** OR DETOUR EAST XX * IF TOWN ROAD OR LOCAL STREET

D1-X COMMUNITY NAME * (IF PRE-EXISTING SIGN, COVER ARROW PER SIGN PLATE A4-12)

M4-9L DETOUR ** OR DETOUR EAST XX 500' IF TOWN ROAD OR LOCAL STREET

DETOUR WEST XX

DETOUR WEST XX M4-9R DETOUR ** OR IF TOWN ROAD OR LOCAL STREET

DETOUR WEST XX * M4-59R DETOUR ** * OR IF TOWN ROAD OR LOCAL STREET

500'

DETOUR ROUTE

500' AT 25 - 40 MPH
1000' AT 45+ MPH

500'

M3-X 24" X 12"
M1-X 24" X 24"
DETOUR AHEAD
W20-2A
USE ON STATE TRUNK, U.S. OR INTERSTATE HIGHWAYS, OR AS SPECIFIED IN THE CONTRACT

DETOUR EAST XX *

D1-X COMMUNITY NAME *
(IF PRE-EXISTING SIGN, COVER ARROW PER SIGN PLATE A4-12)

DETOUR EAST XX

DETOUR EAST XX

500'

DETOUR EAST XX

DETOUR EAST XX

D1-X COMMUNITY NAME *
(IF PRE-EXISTING SIGN, COVER ARROW PER SIGN PLATE A4-12)

DETOUR EAST XX *

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

500' AT 25 - 40 MPH
1000' AT 45+ MPH

DETOUR EAST XX *

M3-X 24" X 12"
M1-X 24" X 24"
DETOUR AHEAD
W20-2A
USE ON STATE TRUNK, U.S. OR INTERSTATE HIGHWAYS, OR AS SPECIFIED IN THE CONTRACT

DETAIL F
DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

SDD 15C02 - 07c

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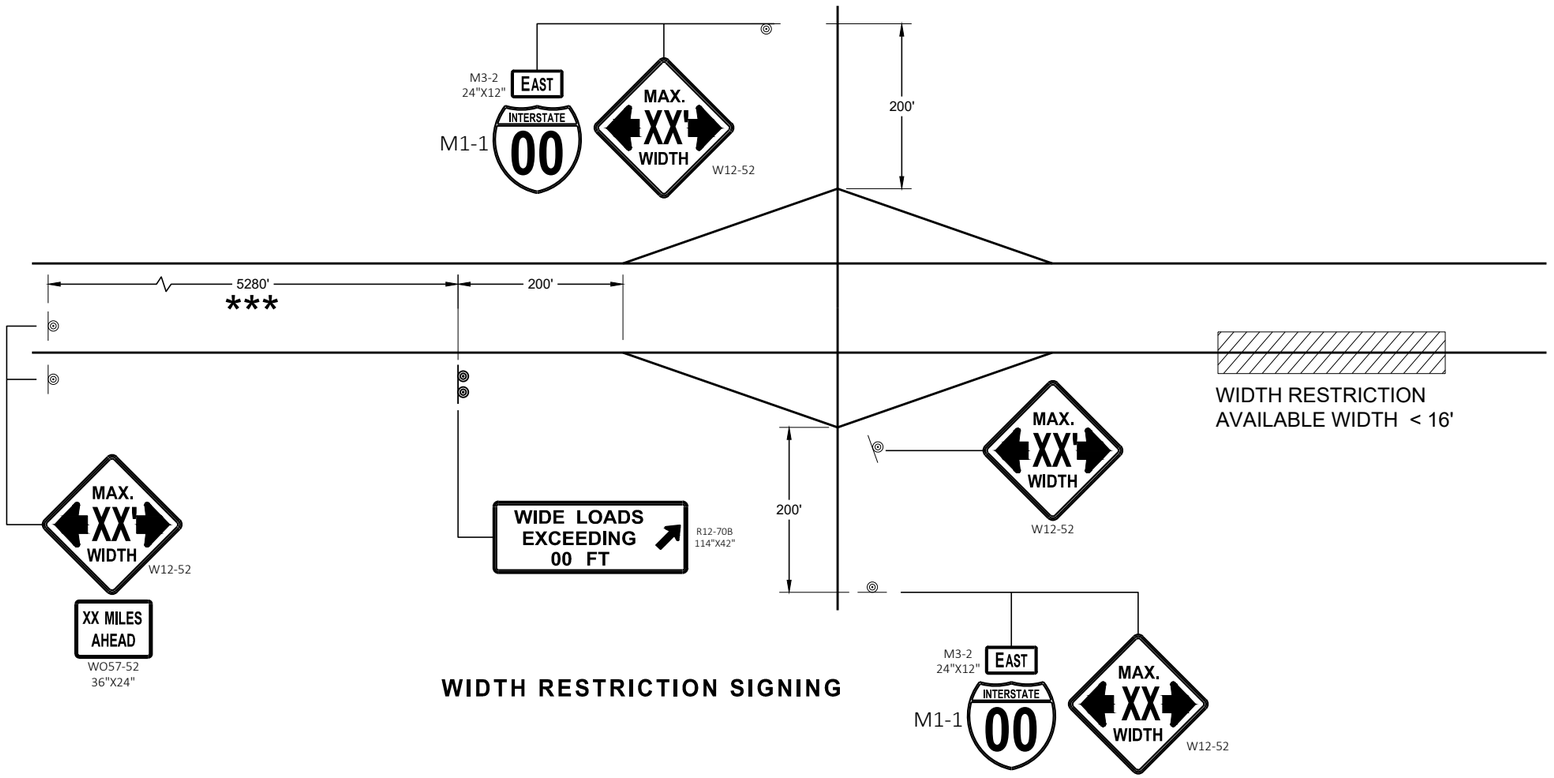


WIDTH RESTRICTION SIGNING

LEGEND

SIGN ON PERMANENT SUPPORT

GENERAL NOTES

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

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

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

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

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

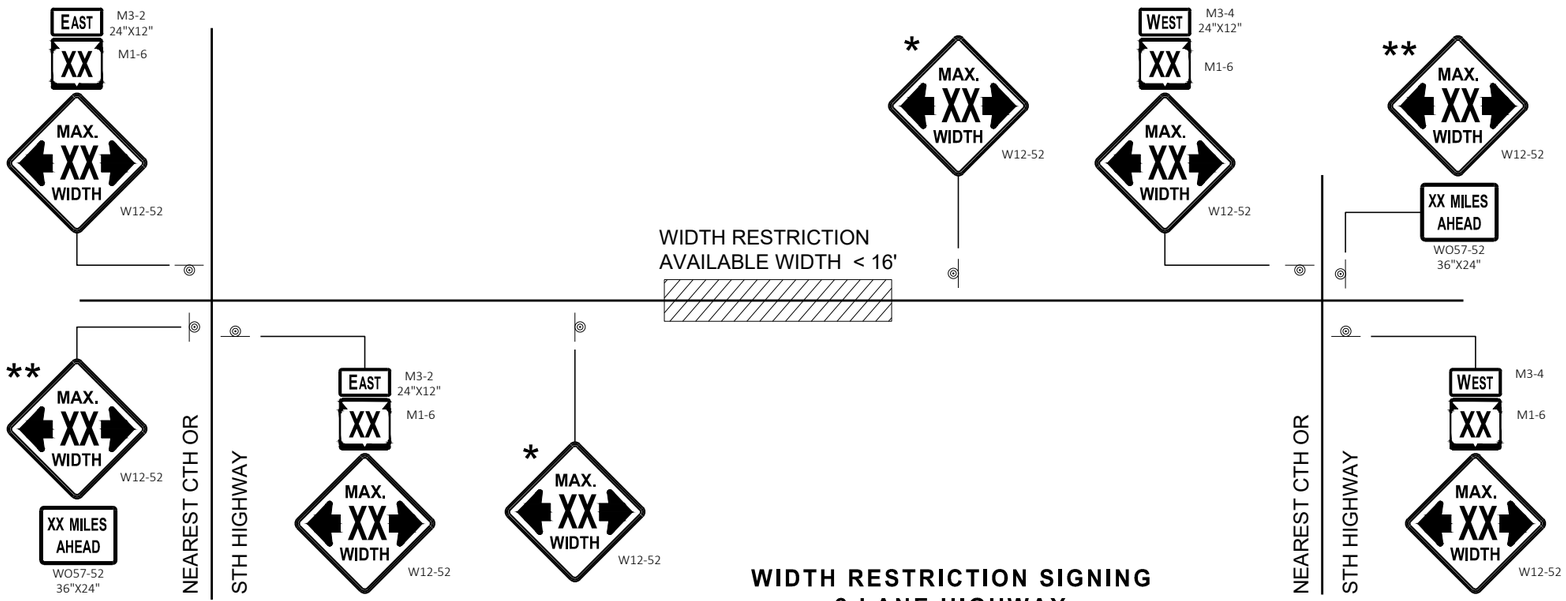
WIDTH ON SIGN TO BE APPROXIMATELY ONE FOOT LESS THAN AVAILABLE WIDTH.

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

** SIGN SHALL BE VISIBLE FROM ROADWAY.

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

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



WIDTH RESTRICTION SIGNING
2 LANE HIGHWAY

ADVANCED WIDTH RESTRICTION SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

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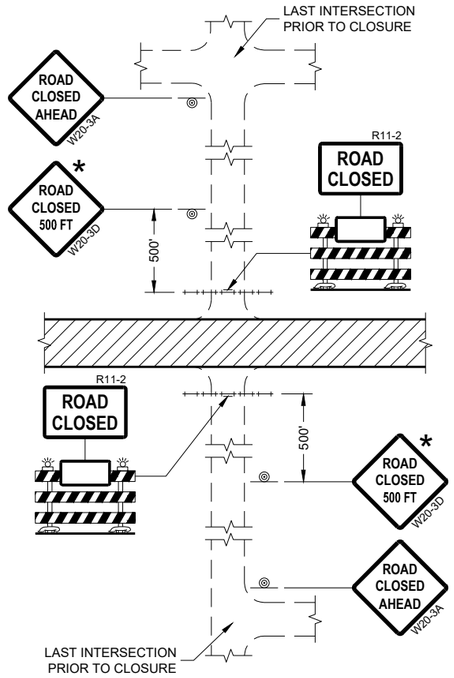
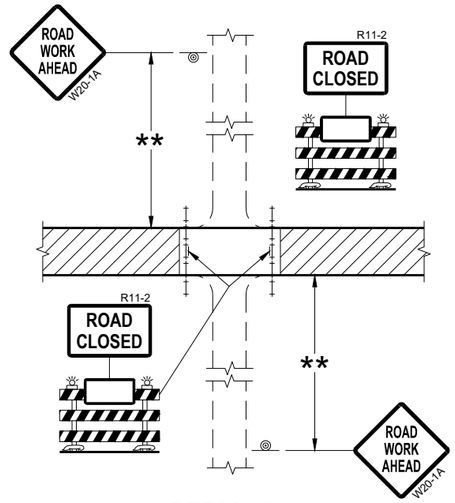
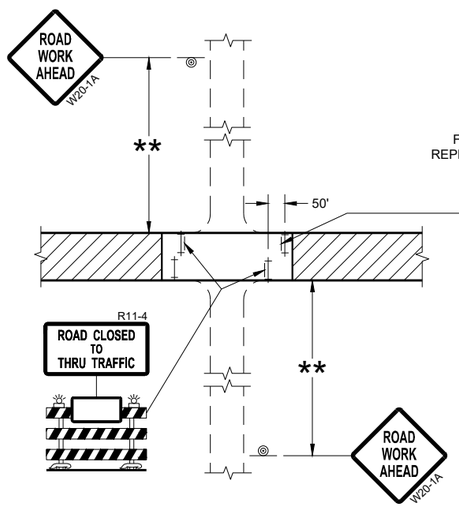
SDD 15C02 - 07f



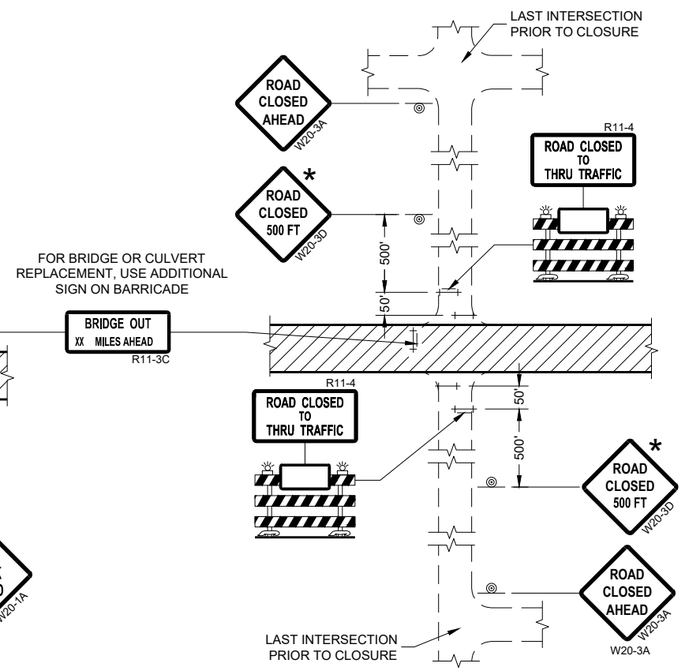
DETAIL 1
(NO ACCESS TO PROJECT)



DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT)



DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED.
CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)



DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT 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.

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

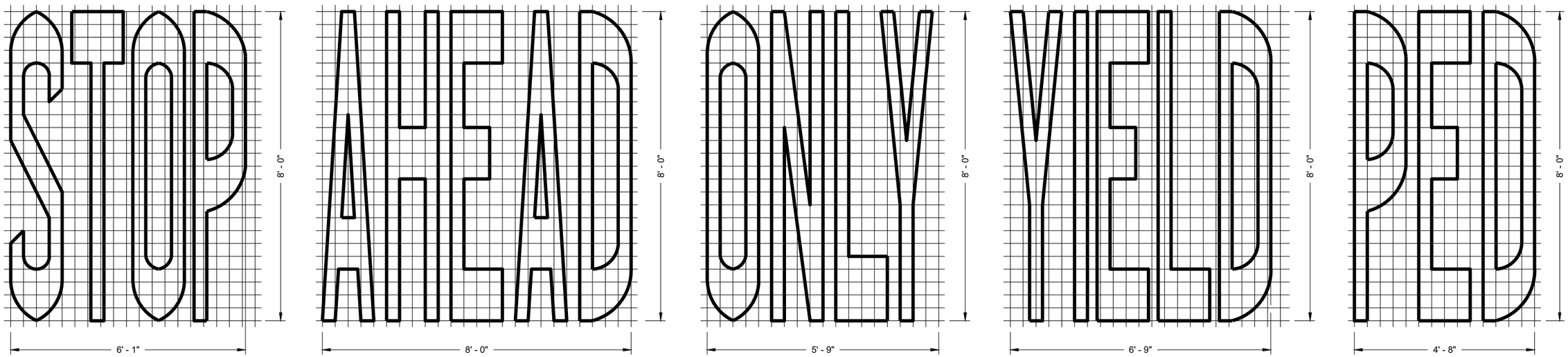
FHWA

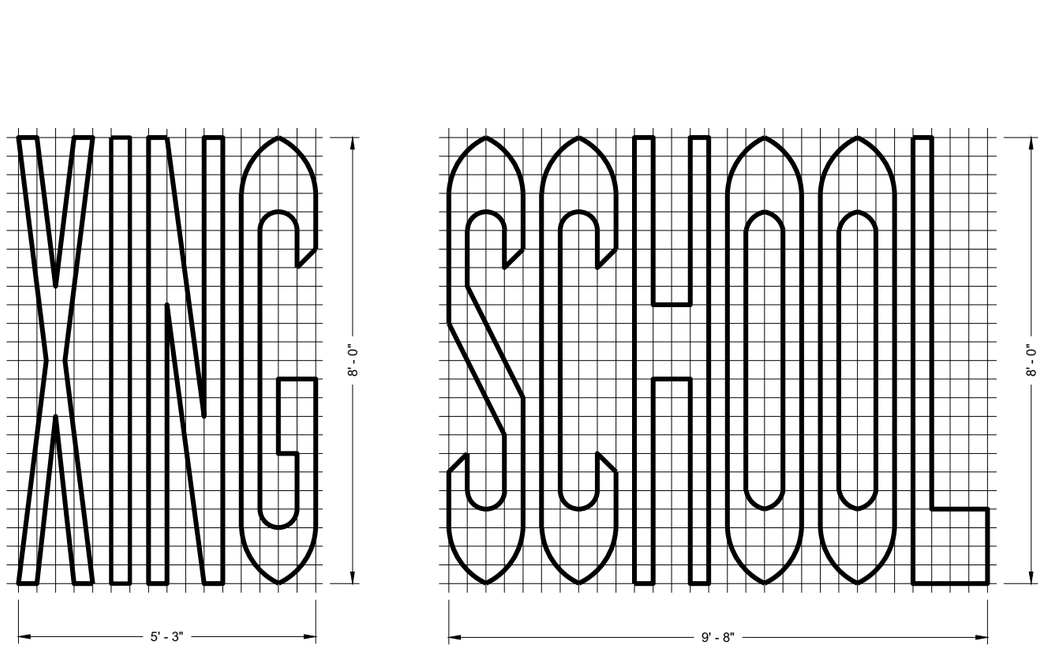
6

SDD 15C03 - 05

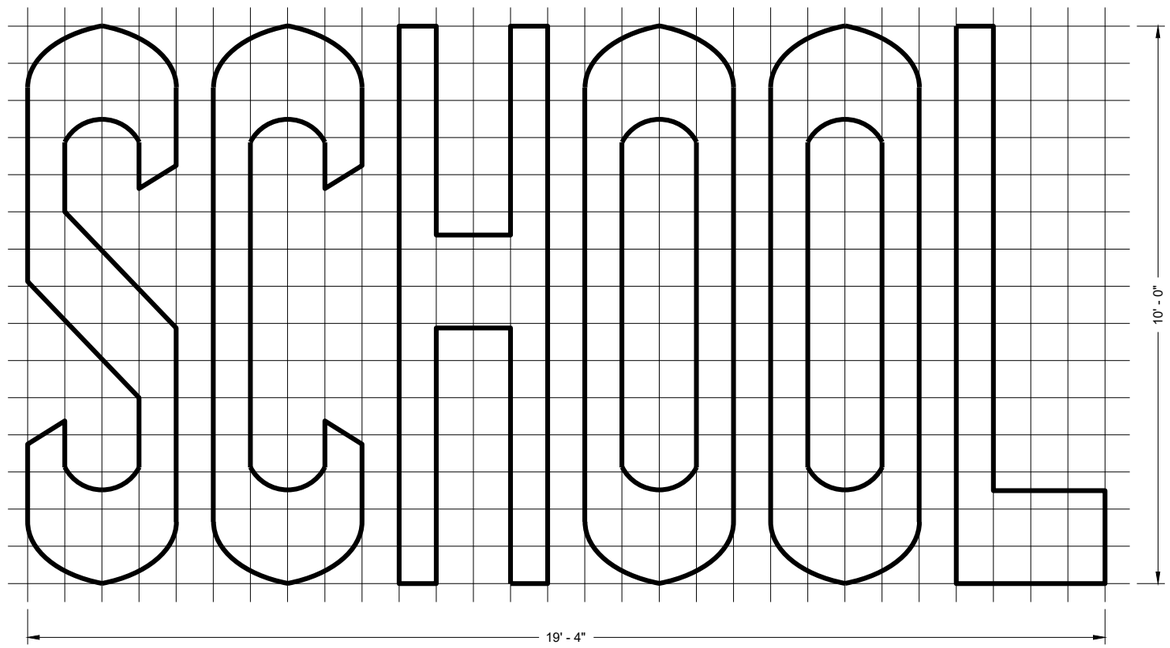
6

SDD 15C03 - 05





SINGLE LANE



TWO - LANE

GENERAL NOTES

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

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

FHWA

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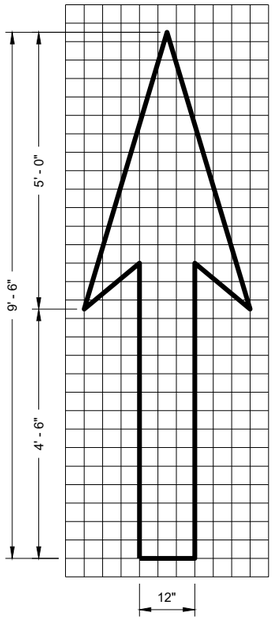
SDD 15C07 - 15b

SDD 15C07 - 15b

GENERAL NOTES

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



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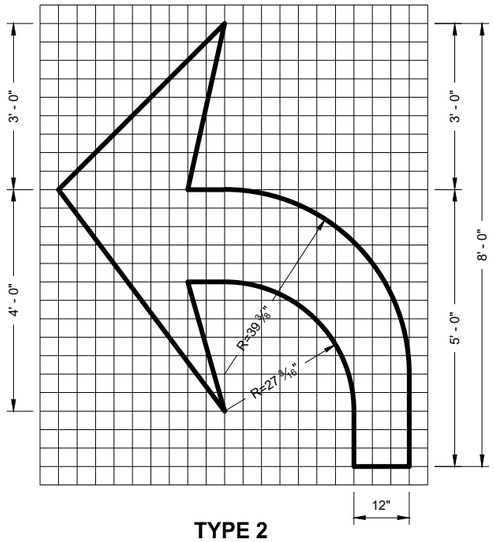

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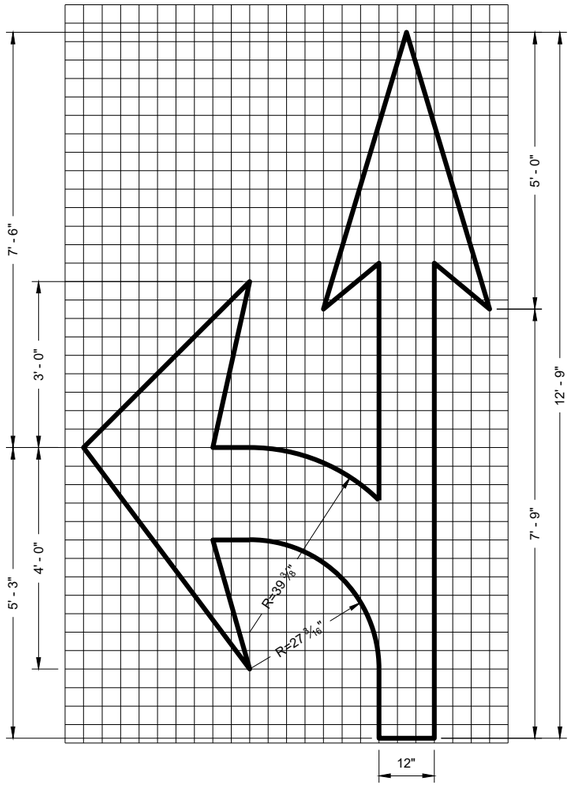

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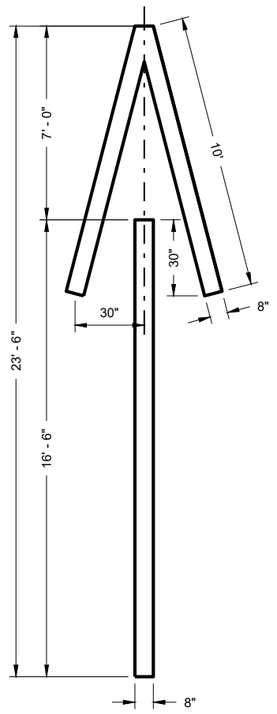
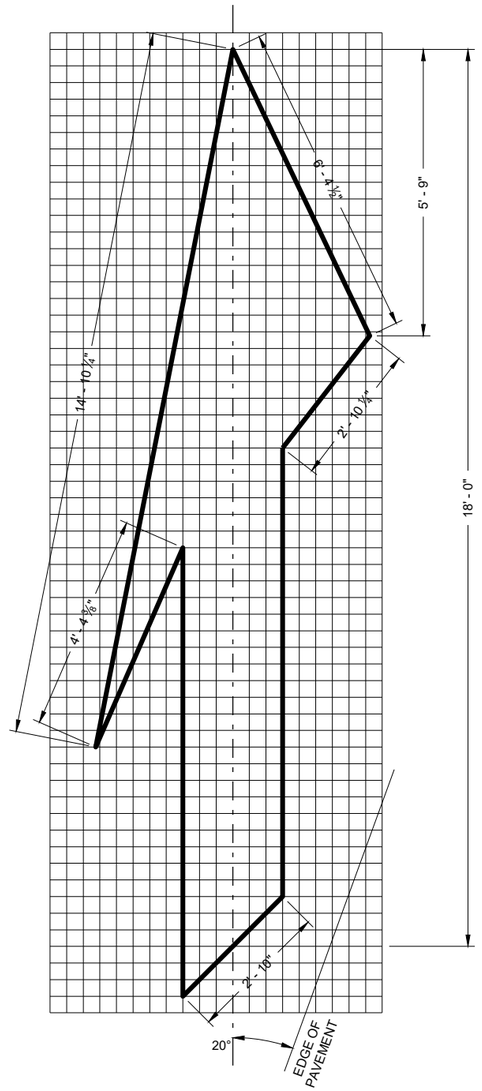
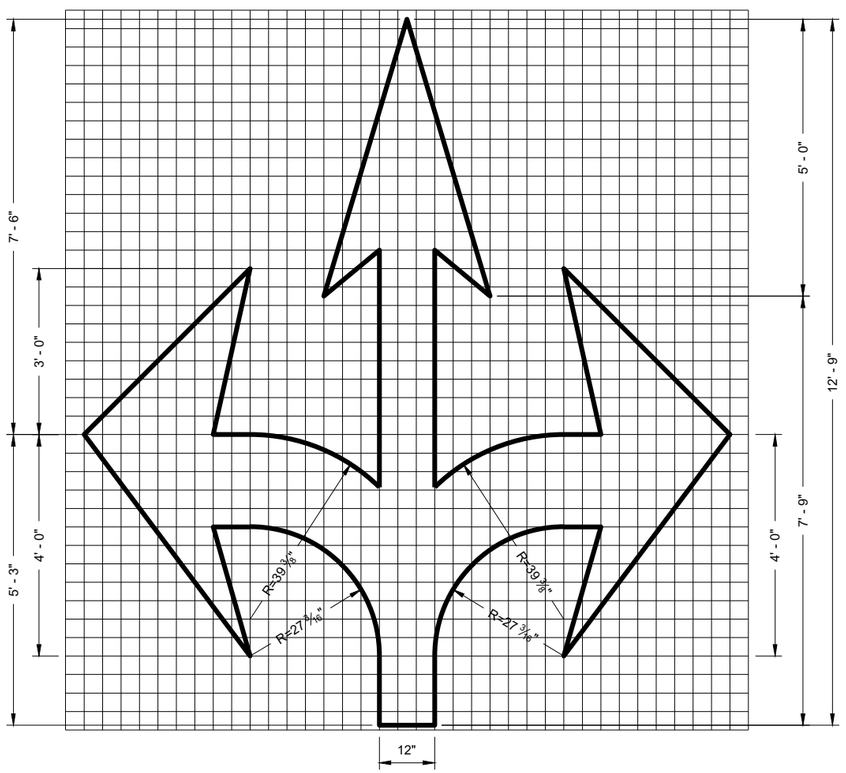


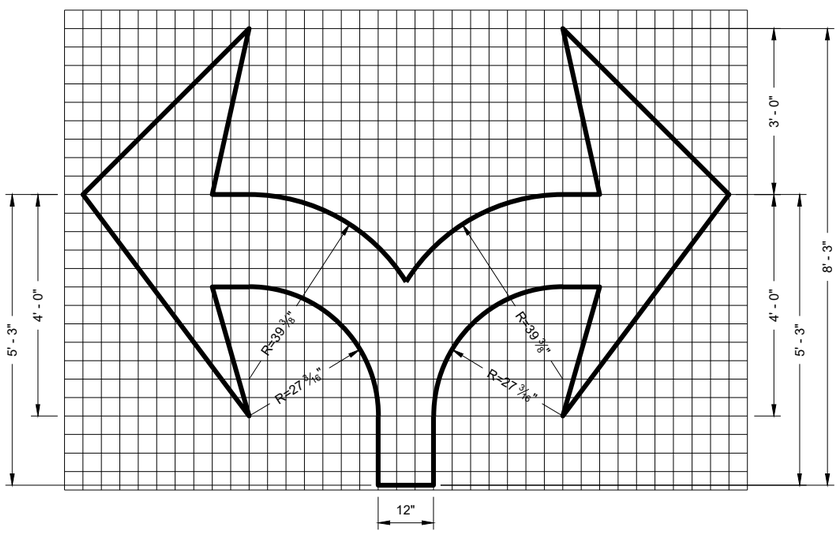
TYPE 4



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 MARKING ENGINEER

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SDD 15C07 - 15c

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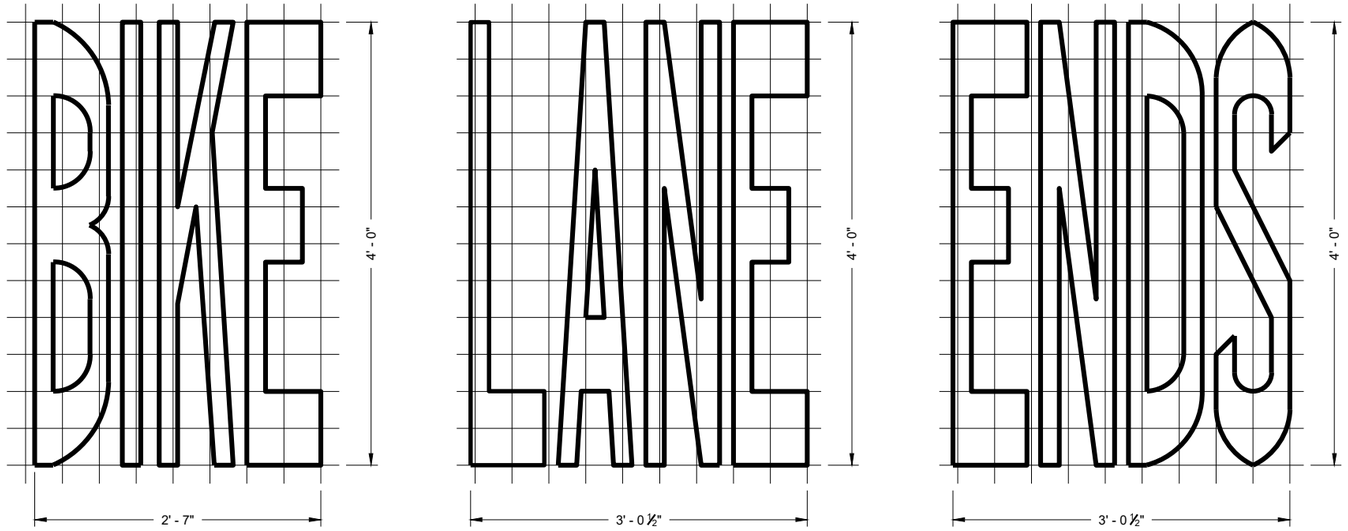
SDD 15C07 - 15c

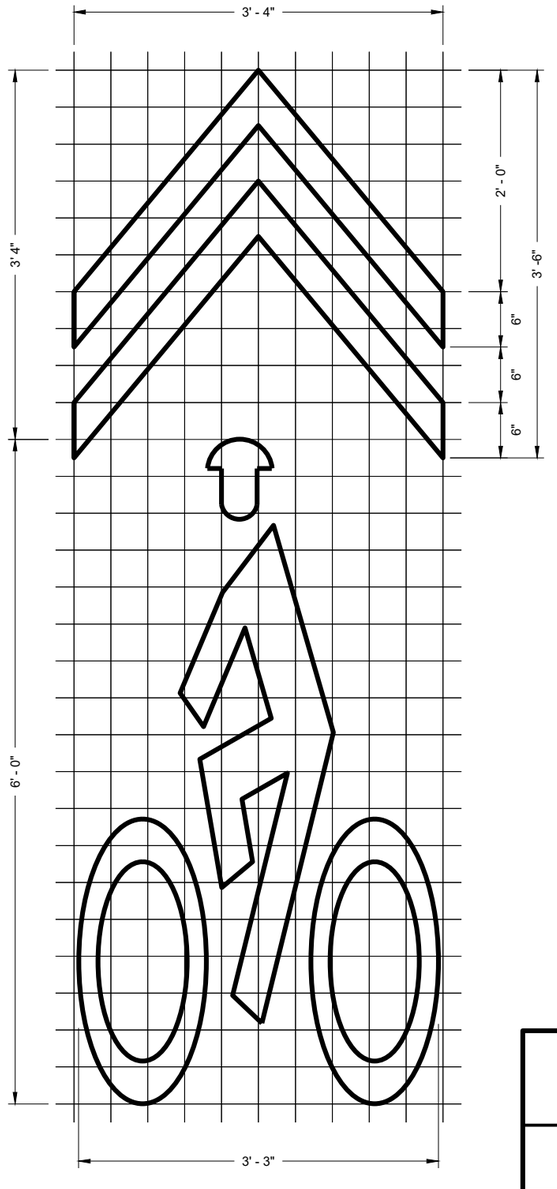
SDD 15C7-e Pavement Marking For Bike Lanes

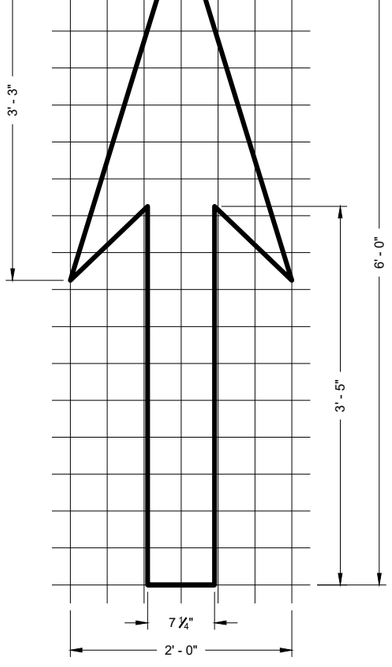


BIKE LANE WORDS

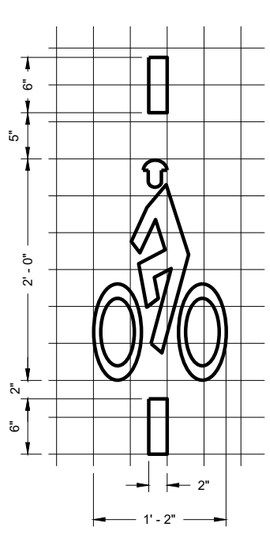
GENERAL NOTES

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.

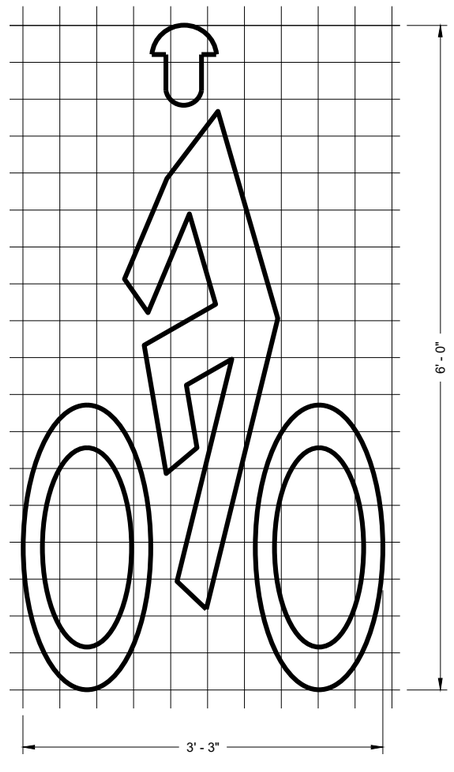




BIKE LANE ARROW



BICYCLE DETECTOR PAVEMENT MARKING



BIKE LANE SYMBOL

BIKE LANE SYMBOL FOR SHARED LANE

PAVEMENT MARKING FOR BIKE LANES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MAF ENGINEER

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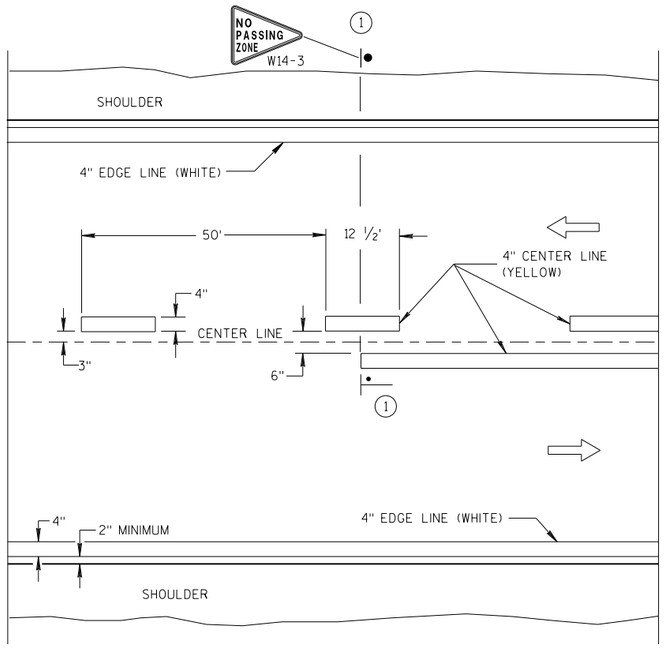
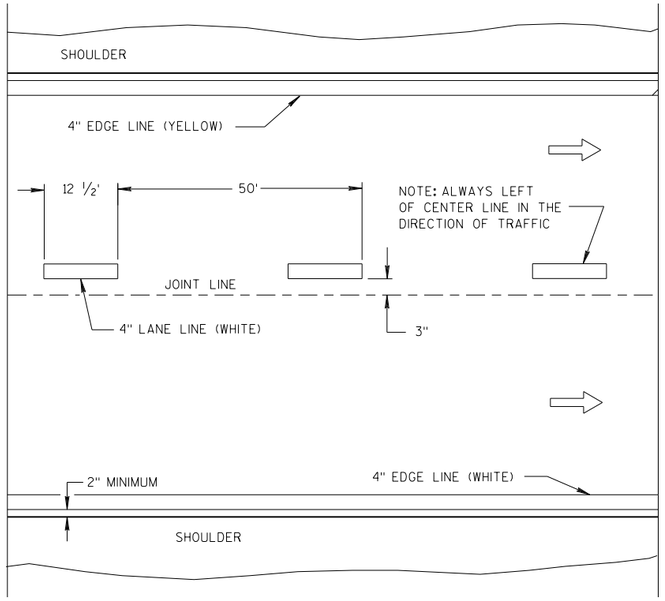


TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

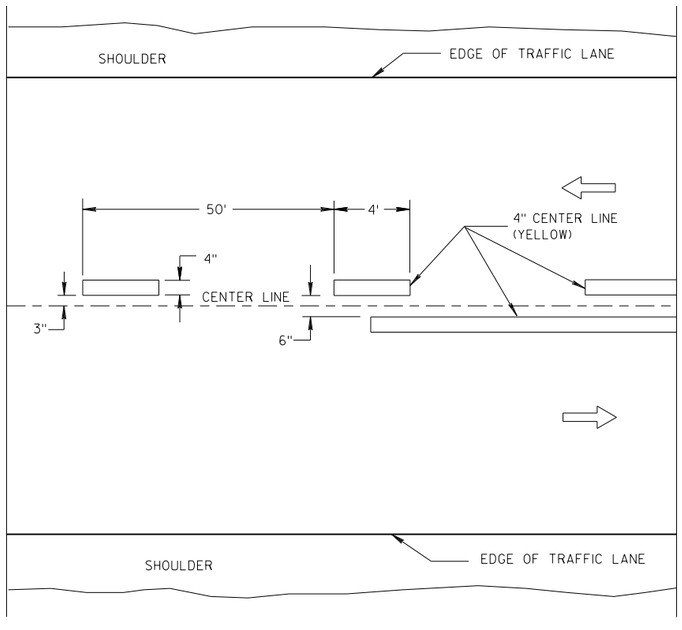
GENERAL NOTES

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

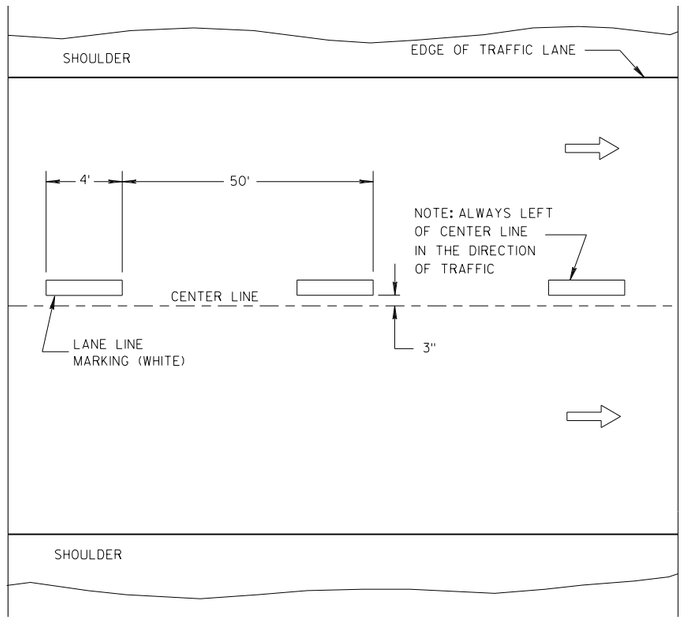
(1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING.

NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

LEGEND

"T" MARKING

POST MOUNTED SIGN

LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018 — DATE

/S/ Matthew R. Rauch — STATE SIGNING AND MARKING ENGINEER

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S.D.D. 15 C 8-19a

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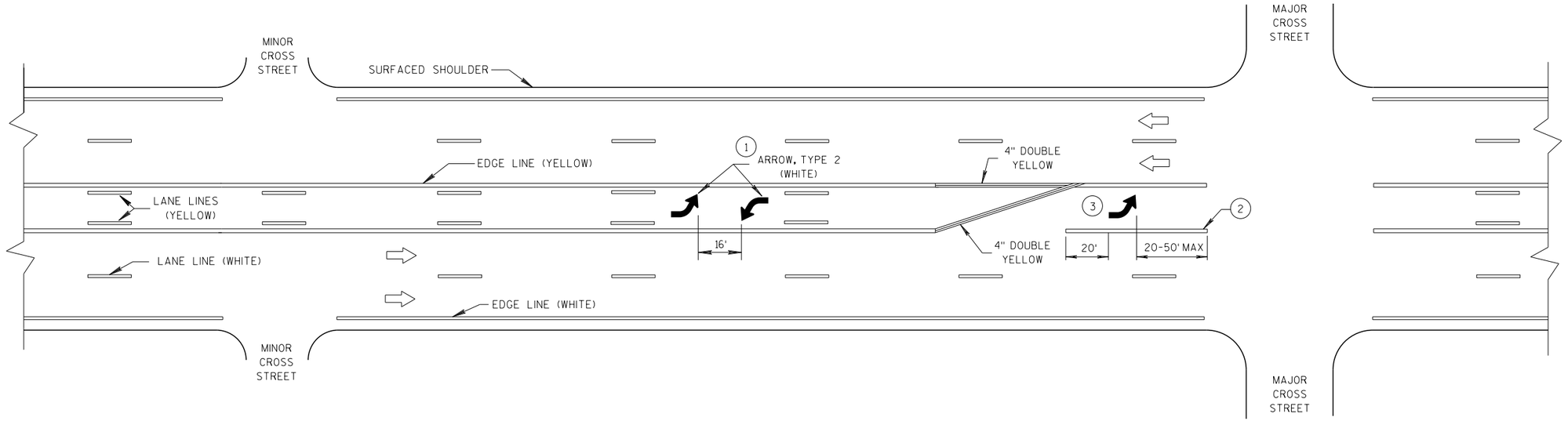
S.D.D. 15 C 8-19a

GENERAL NOTES

1. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
2. 8" WHITE
3. TURN BAY LENGTH OF LESS THAN 48'DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT

DIRECTION OF TRAFFIC



TWO WAY LEFT TURN LANE

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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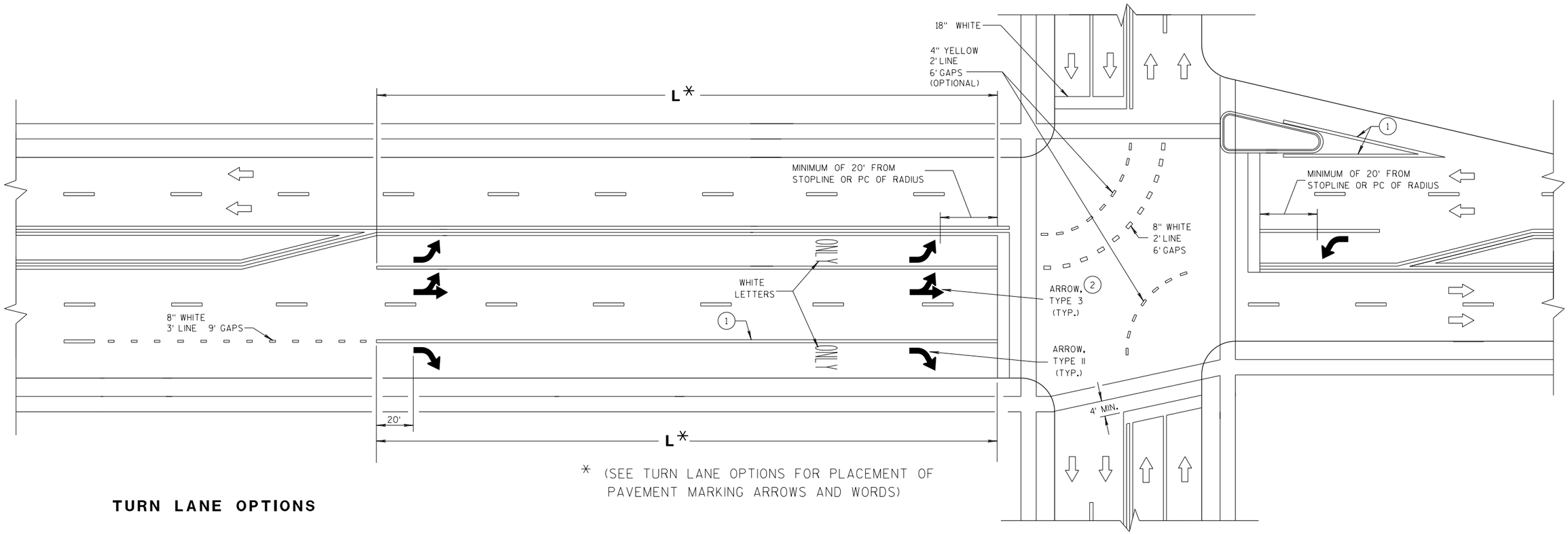
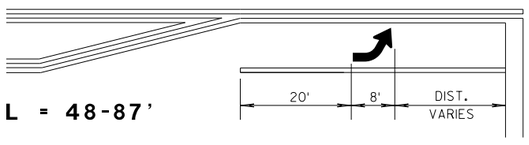
S.D.D. 15 C 8-19b



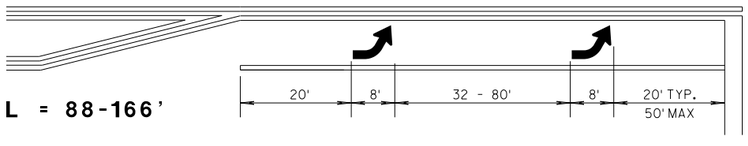
* (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

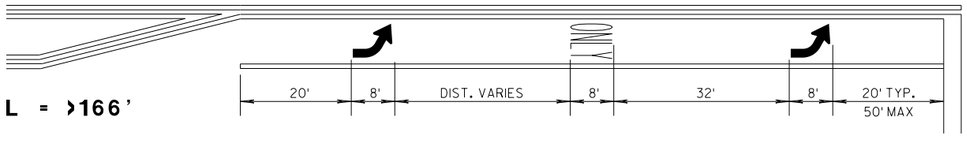
LENGTH OF TURN BAY (**L**) OF 0-47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48-87'



L = 88-166'



L = >166'

GENERAL NOTES

(1) 8" WHITE

(2) QUANTITY AND LOCATION OF TYPE 3 ARROW ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION, THE ARROWS AND ONLY MARKING ARE ELIMINATED.

⇨ DIRECTION OF TRAFFIC

L = LENGTH OF TURN BAY

PAVEMENT MARKING (TURN LANES)

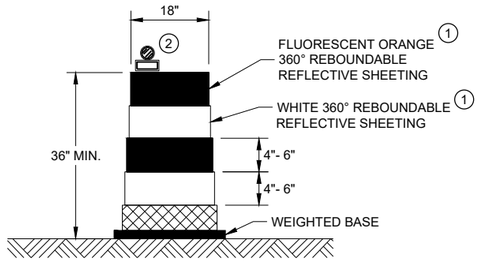
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORT

6

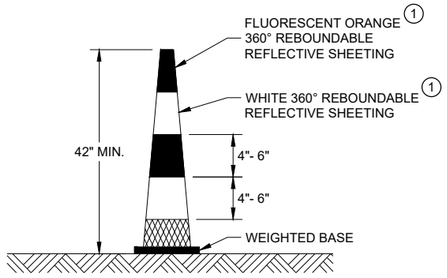
S.D.D. 15 C 8-19c

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.

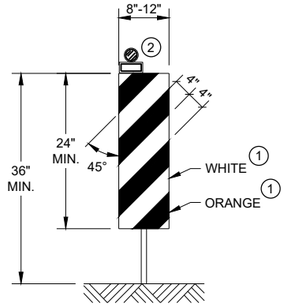


DRUM



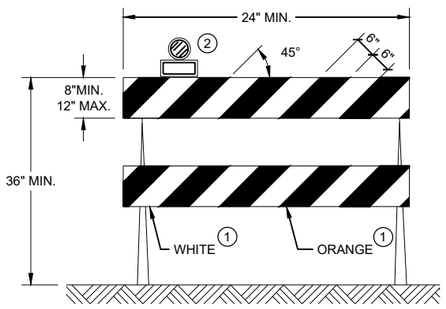
42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS



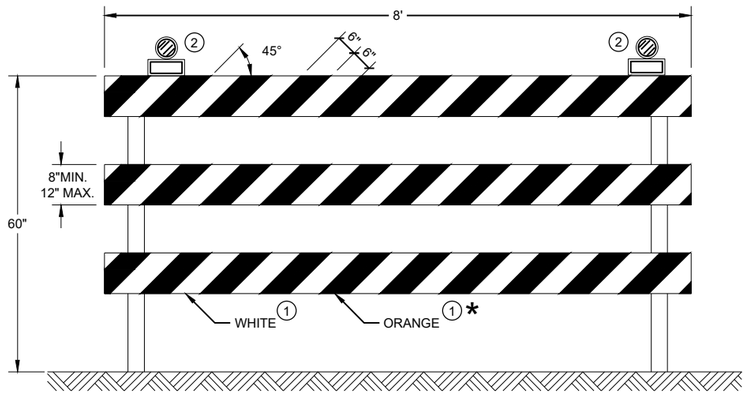
VERTICAL PANEL

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
June 2017
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

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SDD 15C11 - 07b

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SDD 15C11 - 07b

LEGEND

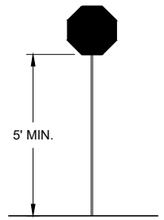
SIGN ON PORTABLE OR PERMANENT SUPPORT

TEMPORARY PORTABLE RUMBLE STRIP ARRAY

DIRECTION OF TRAFFIC

WORK AREA

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



STOP/SLOW PADDLE 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 SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

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

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

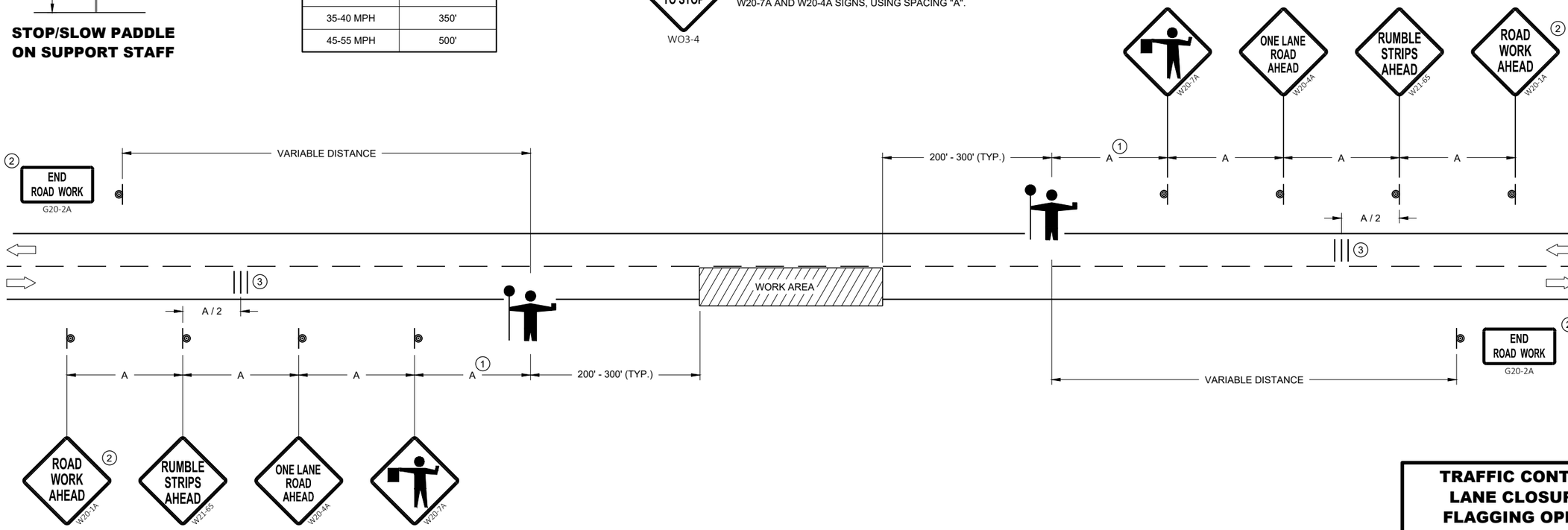
DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.

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

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

SDD 15C12 - 07

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.

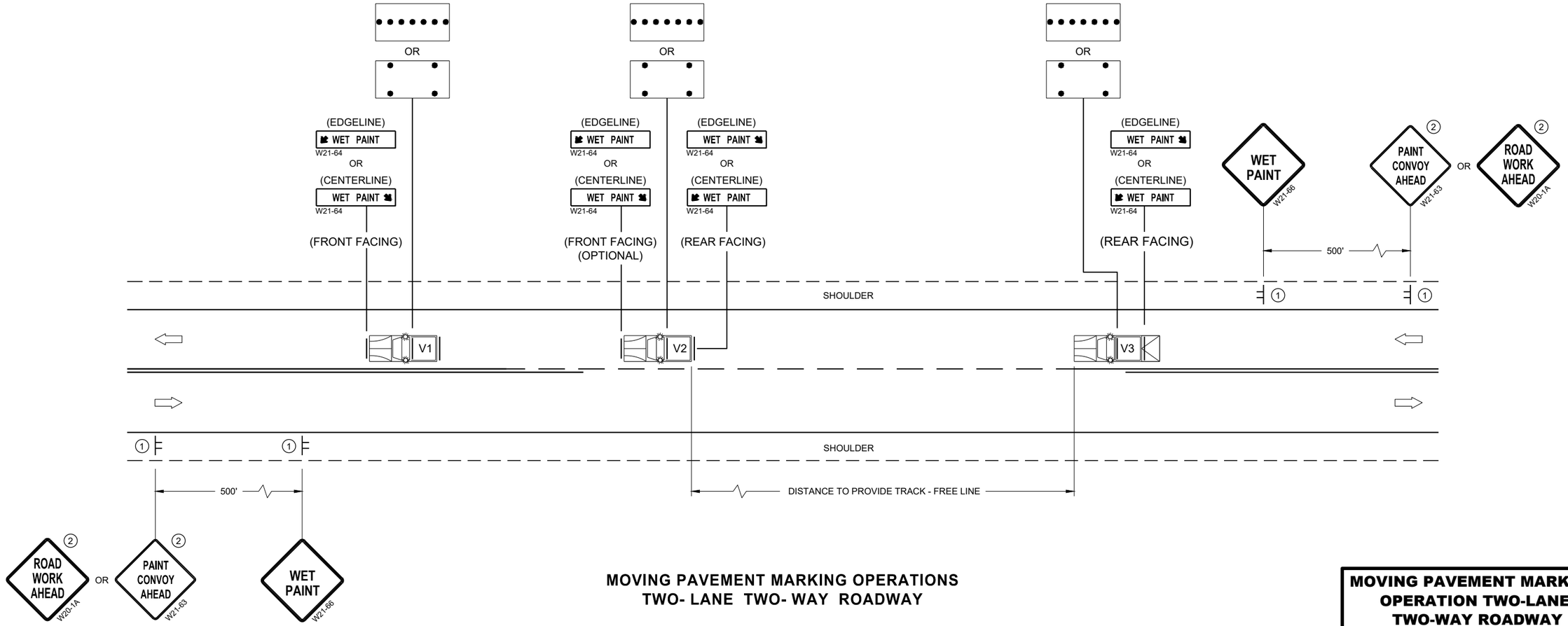
WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC.

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 18" 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.



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
November 2019
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

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SDD 15C19 - 06a

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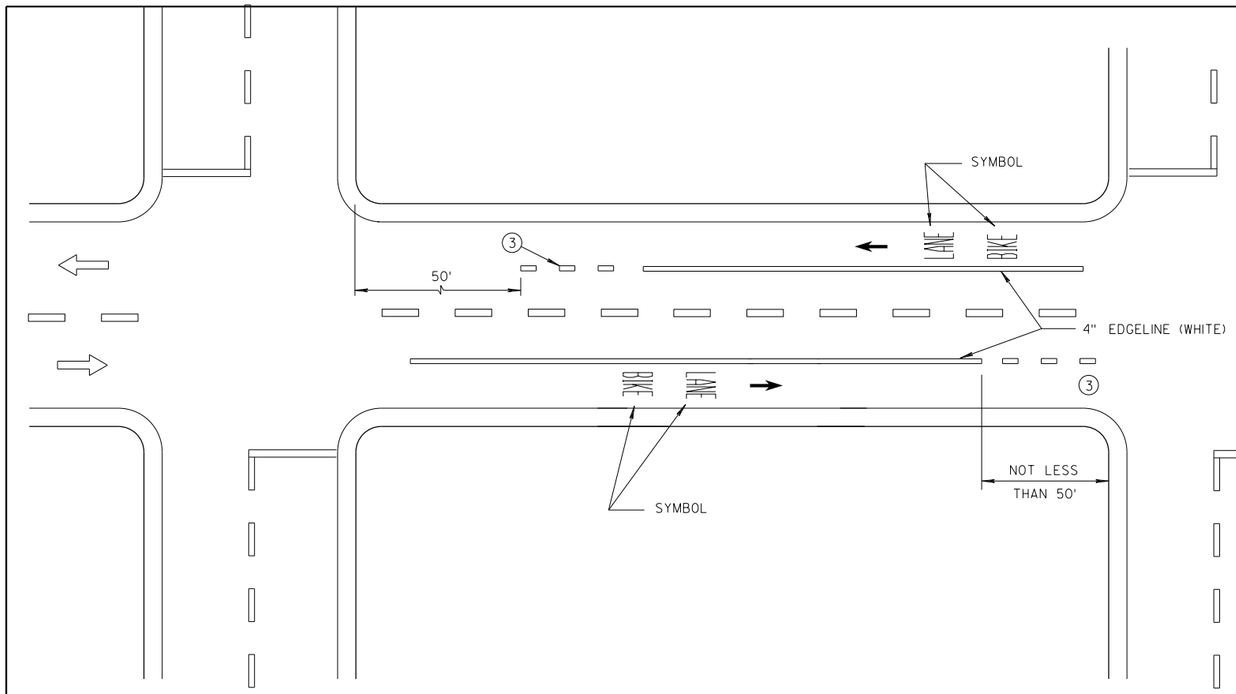
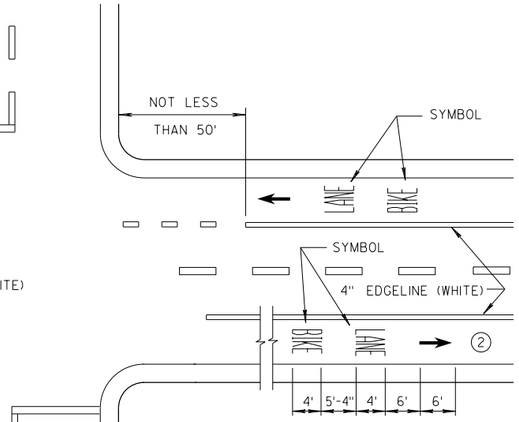
SDD 15C19 - 06a



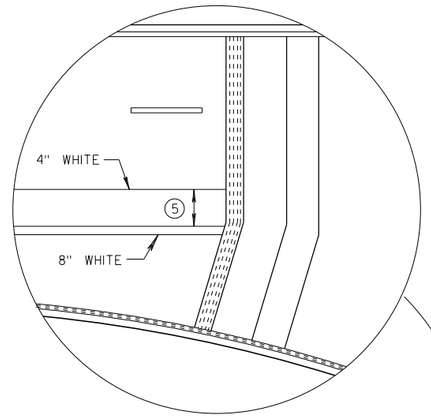


DESIGNATED BICYCLE LANE
NO PARKING

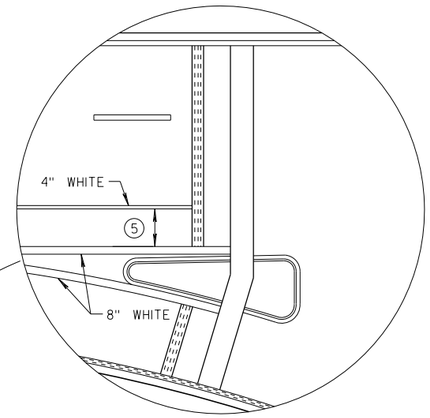
GENERAL NOTES

1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
2. MINIMUM OF ONE PER BLOCK. MAXIMUM OF 250 FEET.
3. DOTTED LINES (3' LINE, 9' GAP) SHOULD BE USED 50 FEET TO 200 FEET IN ADVANCE OF AN INTERSECTION WHERE THERE IS NO RIGHT TURN ONLY LANE AND THERE IS HEAVY RIGHT TURN TRAFFIC OR THERE IS A NEAR-SIDE BUS STOP. AT OTHER INTERSECTIONS WHERE RIGHT TURN TRAFFIC IS LIGHT TO MODERATE, A SOLID LINE CAN BE USED UP TO THE INTERSECTION.
4. IF SIGNED AND/OR MARKED AS A BICYCLE FACILITY INCLUDE SECOND LINE OF LINE-SPACE MARKING, OTHERWISE DO NOT.
5. BIKE ACCOMODATION IS TYPICALLY 5 FEET WIDE AND A MINIMUM OF 4 FEET FROM A LONGITUDINAL JOINT. USE 5 FEET AT 45 MPH.
6. OMIT THESE MARKINGS FOR WIDER TURN LANE APPLICATIONS (MINIMUM OF 15 FEET WIDE TURN LANE).
7. REFER TO CONTRACT PLANS FOR LANE WIDTH.

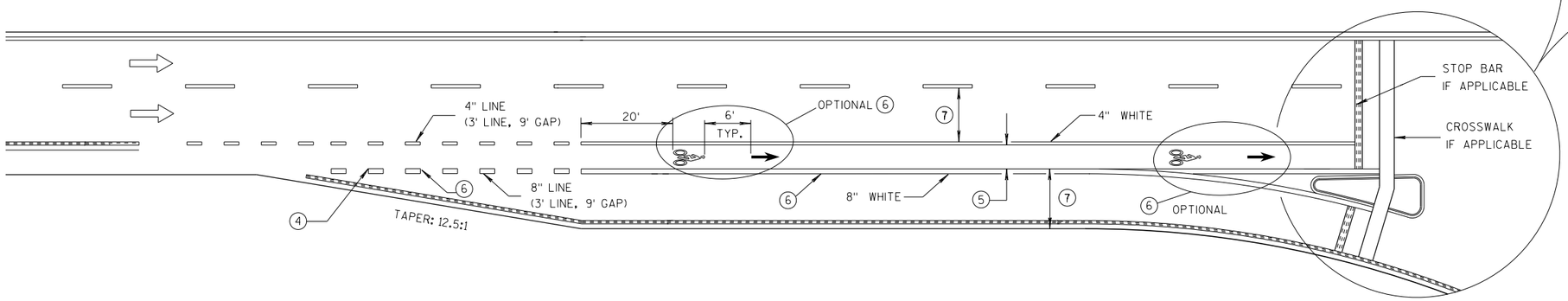
DIRECTION OF TRAVEL



4 LANE DIVIDED WITHOUT ISLAND



4 LANE DIVIDED WITH ISLAND



BIKE LANE - FOR 2-LANE ROADWAYS AND 4-LANE DIVIDED ROADWAYS
(4-LANE DIVIDED WITH RIGHT TURN LANE SHOWN)

BICYCLE LANE MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018 DATE
/S/ Matthew R. Rauch
STATE SIGNING AND MAR 405 ...EER
FHWA

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S.D.D. 15 C 29-6a

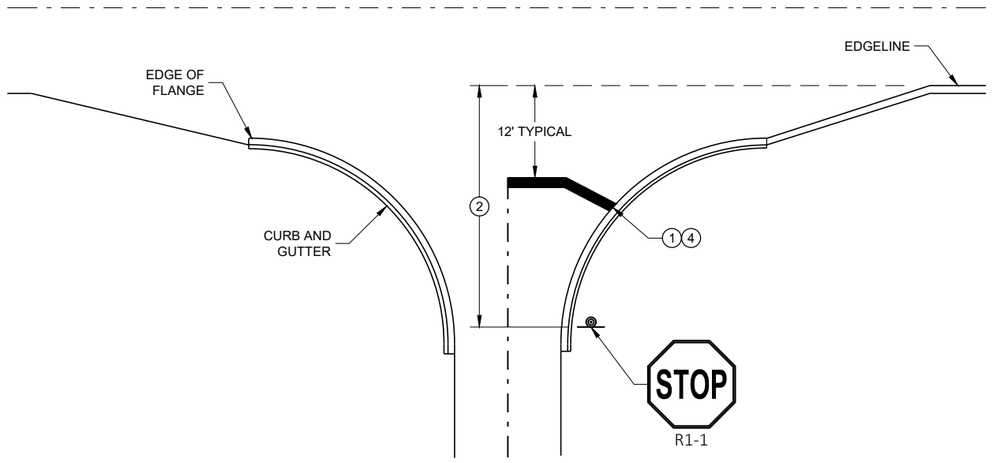
6

S.D.D. 15 C 29-6a

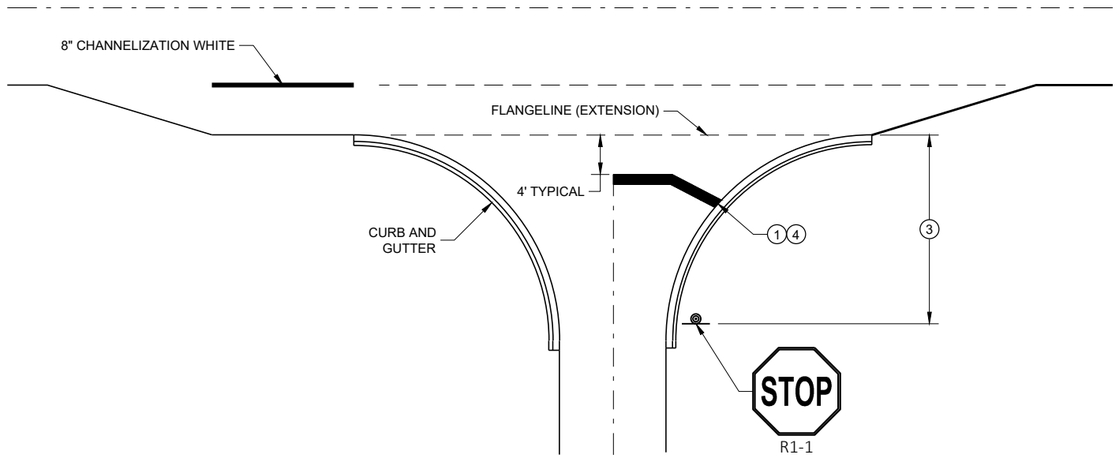
GENERAL NOTES

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

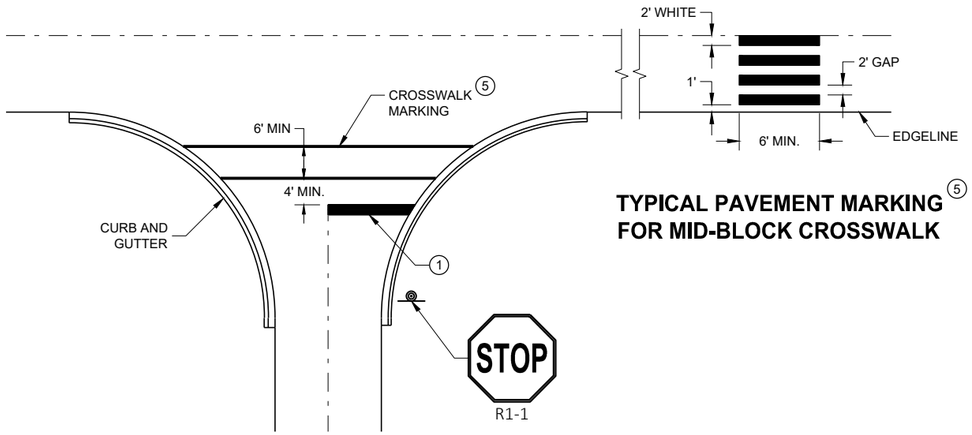
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE 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

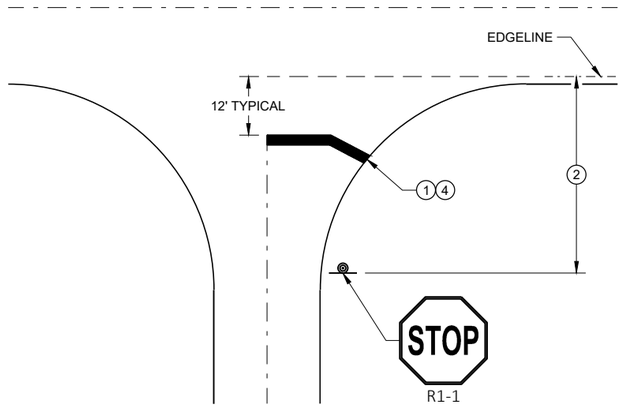


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



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 MARKING ENGINEER

FHWA

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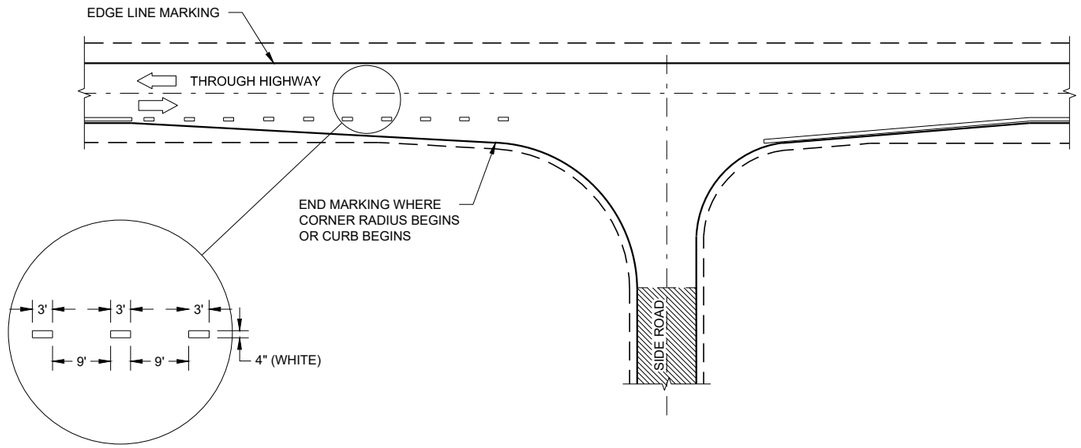
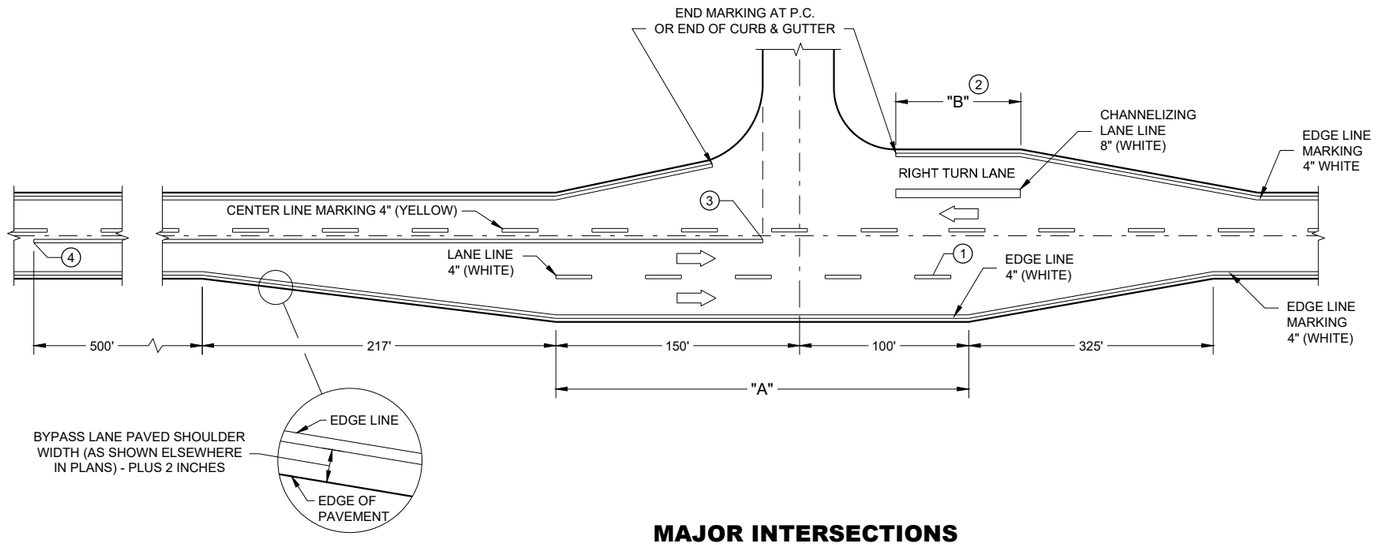


MINOR INTERSECTION



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

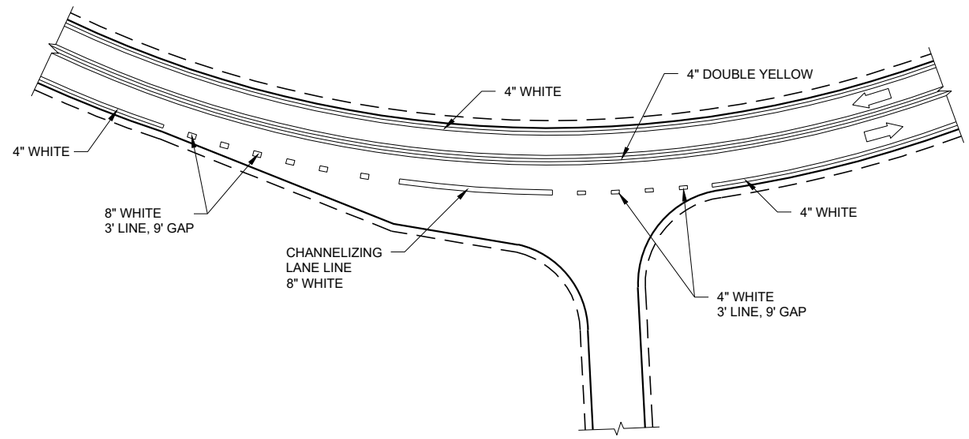
GENERAL NOTES

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.

LEGEND

DIRECTION OF TRAVEL



INTERSECTION ON OUTSIDE OF CURVE

PAVEMENT MARKING (INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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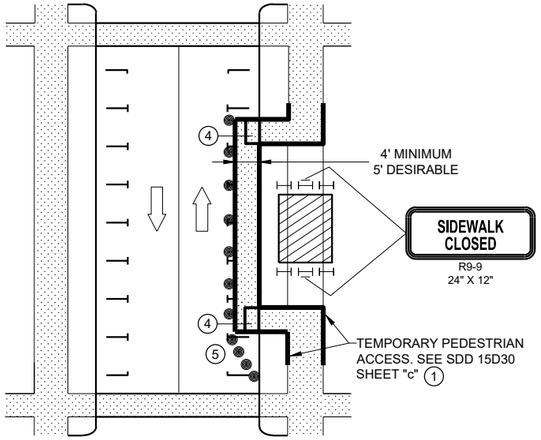
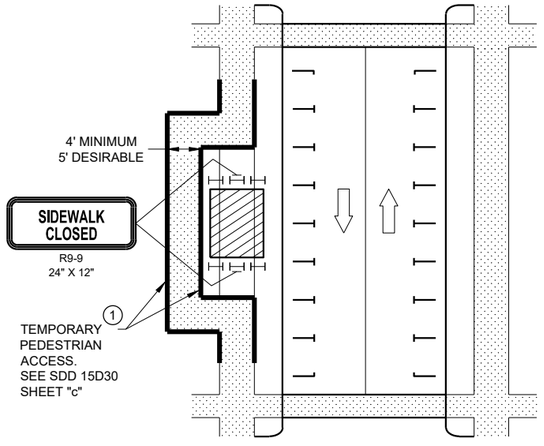
NOTE: MAY BE USED ON ROADWAY WITH POSTED SPEED OF LESS THAN 40 MPH.

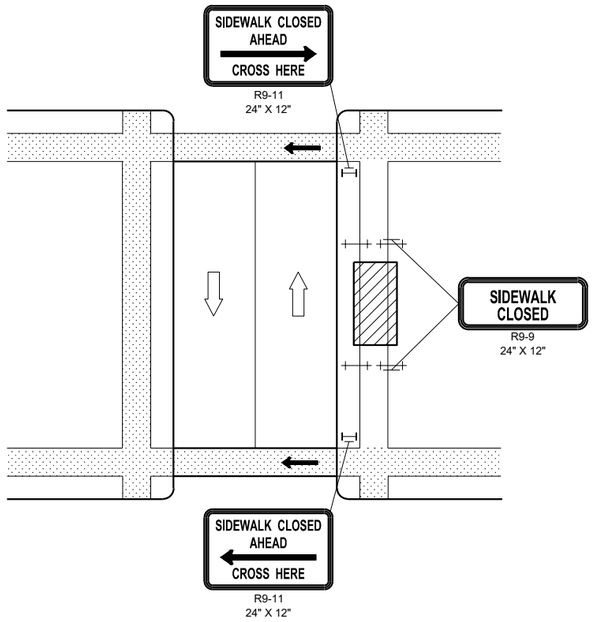


MID-BLOCK SIDEWALK CLOSURE IN PARKING LANE

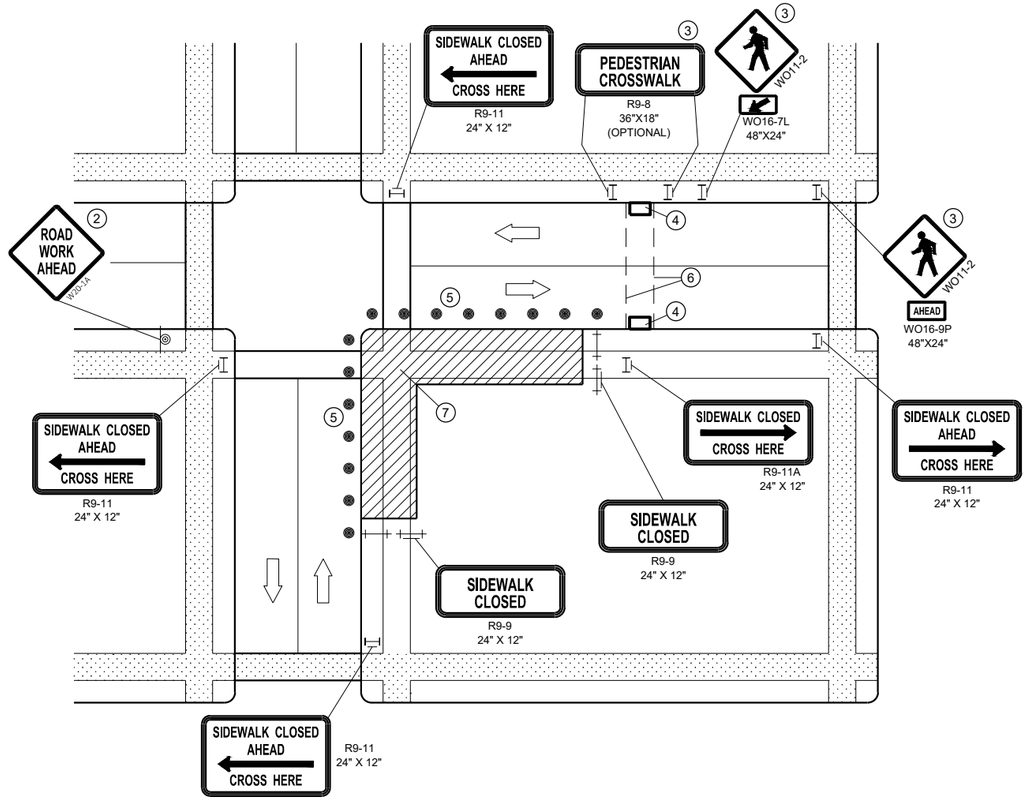
NOTE: LAYOUT SAME AS ABOVE.



SIDEWALK DIVERSION



MID-BLOCK SIDEWALK CLOSURE



CORNER SIDEWALK CLOSURE WITH TEMPORARY CROSSWALK

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK AS NECESSARY, TO PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

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

FOR NIGHTIME CLOSURE, USE TYPE "A" FLASHING WARNING LIGHTS ON BARRICADES, SUPPORTING SIGNS AND CLOSING SIDEWALK. USE TYPE "C" STEADY BURN LIGHTS ON CHANNELIZING DEVICES SEPARATING THE WORK AREA FROM VEHICULAR TRAFFIC.

PEDESTRIAN TRAFFIC SIGNAL DISPLAY CONTROLLING CLOSED CROSSWALK SHALL BE COVERED OR DEACTIVATED.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

ALTERNATE SIDEWALK WORK BETWEEK LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

(1) IF SIDEWALK CLOSURE AFFECTS AN ACCESSIBLE AND DETECTABLE FACILITY, MAINTAIN ACCESSIBILITY AND DETECTABILITY ALONG THE ALTERNATE PEDESTRIAN ROUTE

(2) "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.

(3) IF TEMPORARY PEDESTRIAN CROSSWALK IS NOT PROVIDED, OMIT R9-8 AND WO11-2 SIGN ASSEMBLIES. IF PROVIDED INCLUDE ON BOTH SIDES OF THE CROSSWALK.

(4) TEMPORARY CURB RAMPS. SEE SDD 15D30 SHEET "b'.

(5) DRUMS OR BARRICADES AT 25 FOOT SPACING. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.

(6) TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.

(7) LIMIT WORK TO ONE QUADRANT AT A TIME TO MINIMIZE PEDESTRIAN DISRUPTION.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING)
- TYPE III BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING)
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- PEDESTRIAN CHANNELIZATION DEVICE
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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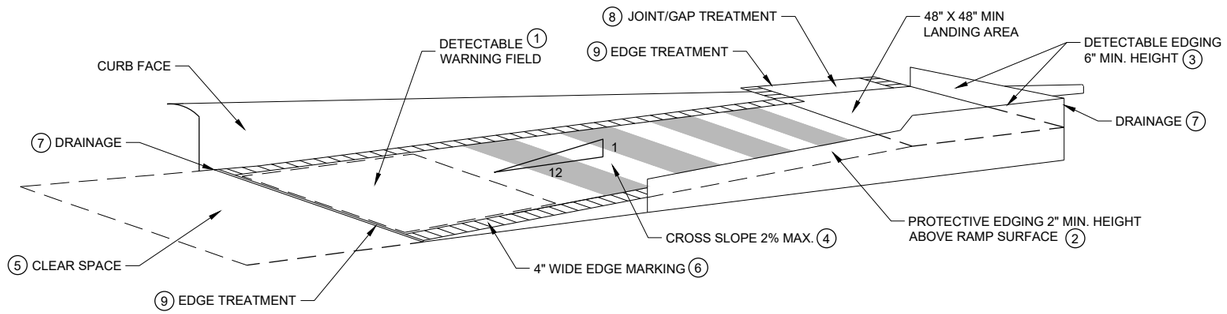
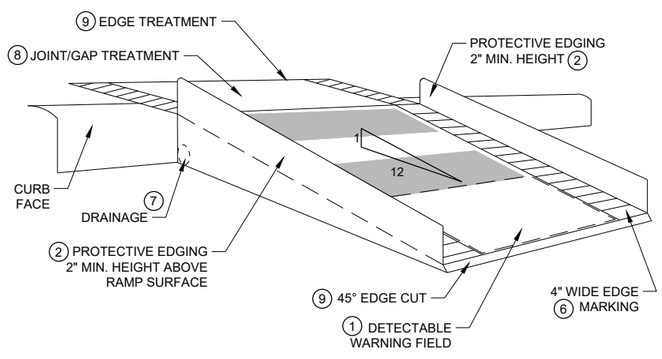
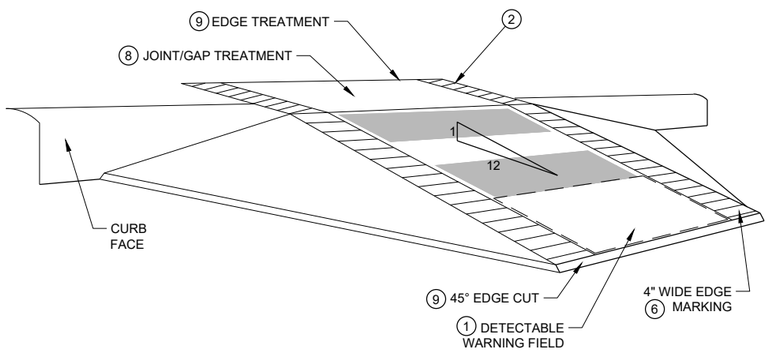


TEMPORARY CURB RAMP PARALLEL TO CURB



WITH PROTECTIVE EDGE



WITH SIDE APRON

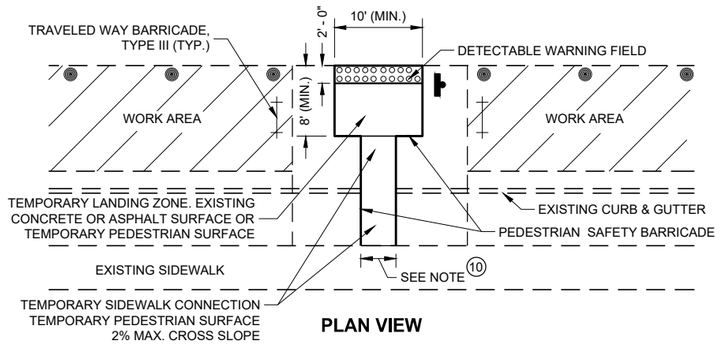
TEMPORARY CURB RAMP PERPENDICULAR TO CURB

GENERAL NOTES

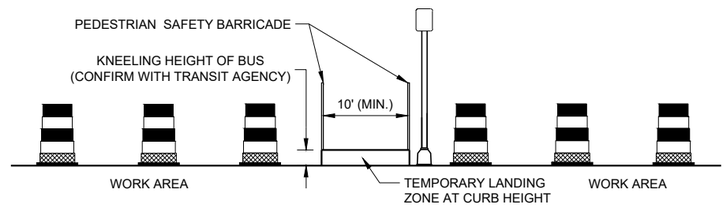
NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

1. CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A A FIRM, STABLE AND SLIP RESISTANT SURFACE. INSTALL CONTRASTING DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS. REFER TO SDD 08D05, SHEET "e".
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. CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.
5. CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
6. THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A YELLOW COLOR, 4" WIDE MARKING, UNLESS A CONTRASTING DETECTABLE WARNING FIELD IS PROVIDED.
7. DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
8. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.
9. CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES SHALL BE VERTICAL UP TO ¼" HIGH AND BEVELED AT 1:2 BETWEEN ¼" AND ½".
10. 5" WIDE MIN. WITH PEDESTRIAN SAFETY BARRICADE, 10' WIDE MIN. WITHOUT PEDESTRIAN SAFETY BARRICADE.



PLAN VIEW



PROFILE VIEW

TEMPORARY BUS STOP PAD

LEGEND

- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE
- WORK AREA

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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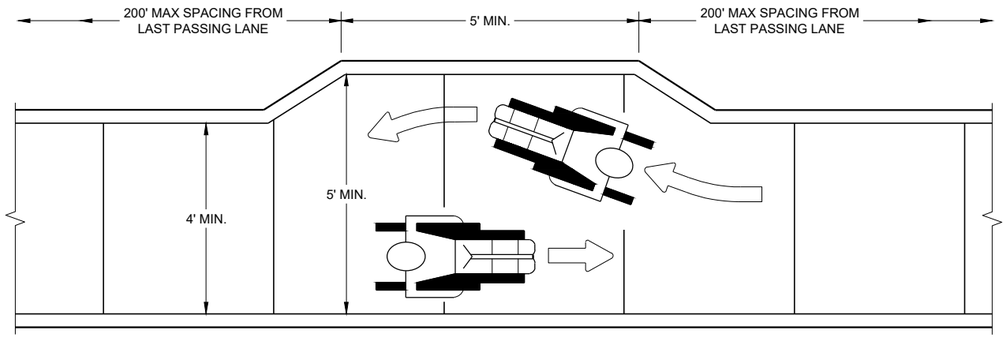
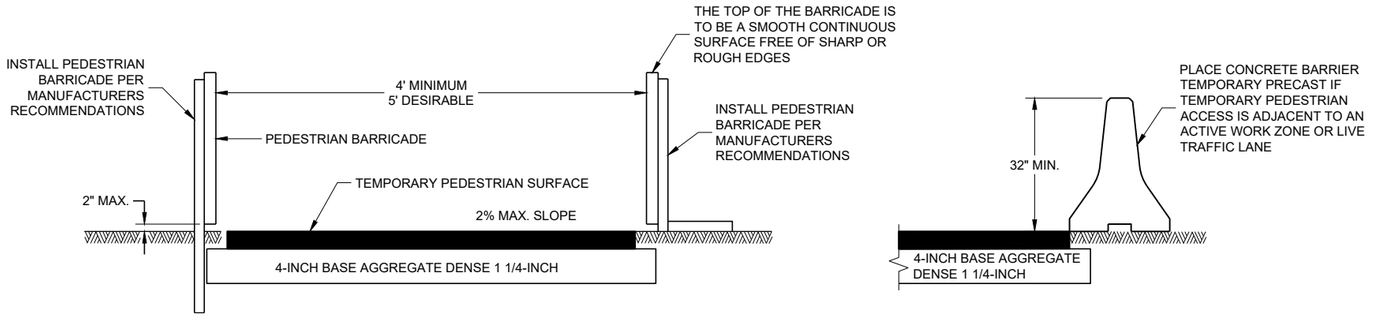
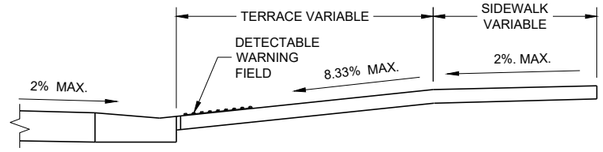
SDD 15D30 - 06b



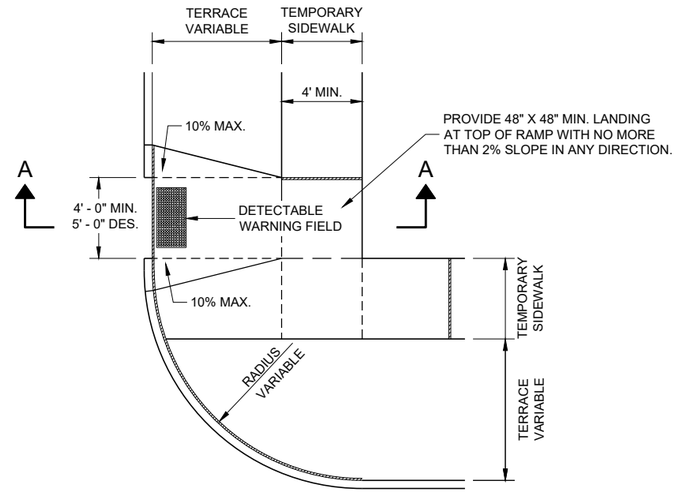
NARROW SIDEWALK PASSING DETAIL



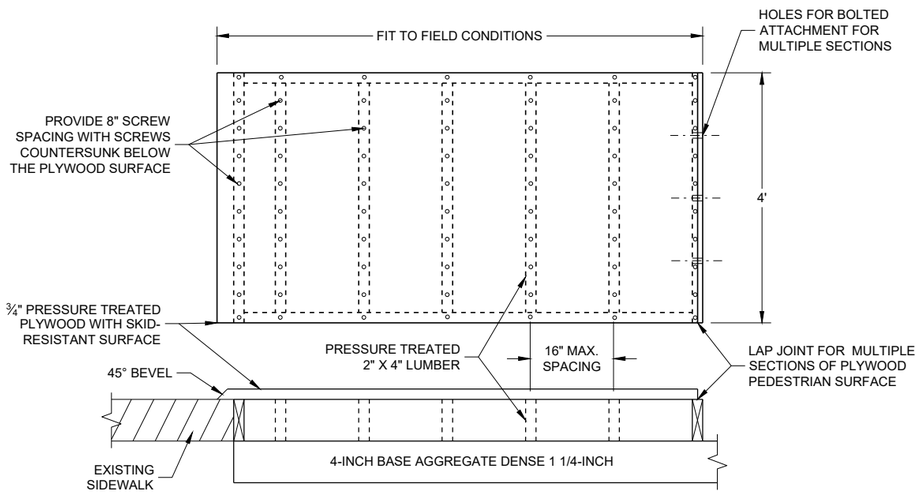
TEMPORARY PEDESTRIAN ACCESS



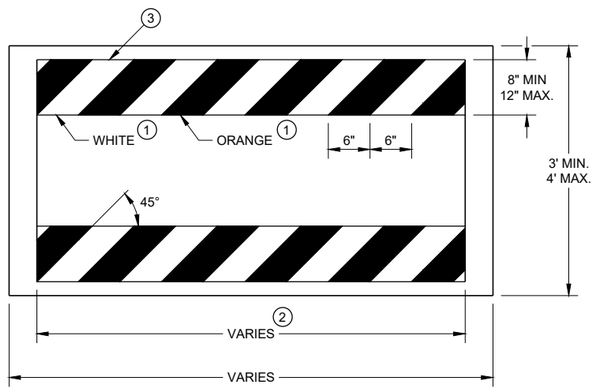
SECTION A - A



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



TEMPORARY PEDESTRIAN SURFACE PLYWOOD



TEMPORARY PEDESTRIAN BARRICADE *

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.

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

SDD 15D30 - 06c

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LEGEND

TYPE III BARRICADE WITH ATTACHED SIGN

SIGN ON PERMANENT SUPPORT

TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT

TRAFFIC CONTROL DRUM

FLAGS, 16" X 16" MIN. (ORANGE)

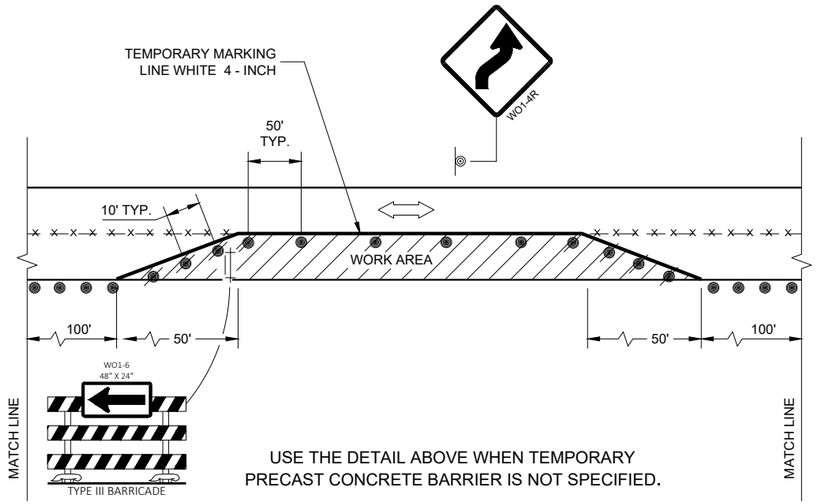
REMOVING PAVEMENT MARKING

DIRECTION OF TRAFFIC

ASPHALTIC PAVEMENT WIDENING

CONCRETE BARRIER TEMPORARY PRECAST

TEMPORARY SIGNAL. SEE SDD 09G02 FOR EXACT PLACEMENT



USE THE DETAIL ABOVE WHEN TEMPORARY PRECAST CONCRETE BARRIER IS NOT SPECIFIED.

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

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

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

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

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

PLACE TEMPORARY PAVEMENT MARKING EDGELINE AND CENTERLINE AND REMOVE EXISTING PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS OR AS NOTED ON DETAIL.

(1) 500 FOOT SPACING SHOWN IS FOR ROADWAYS WITH A PRE-CONSTRUCTION REGULATORY SPEED LIMIT OF 45 MPH OR MORE. FOR 35 - 40 MPH, USE 350 FOOT TYPICAL SPACING. FOR 25 - 30 MPH, USE 200 FOOT TYPICAL SPACING.

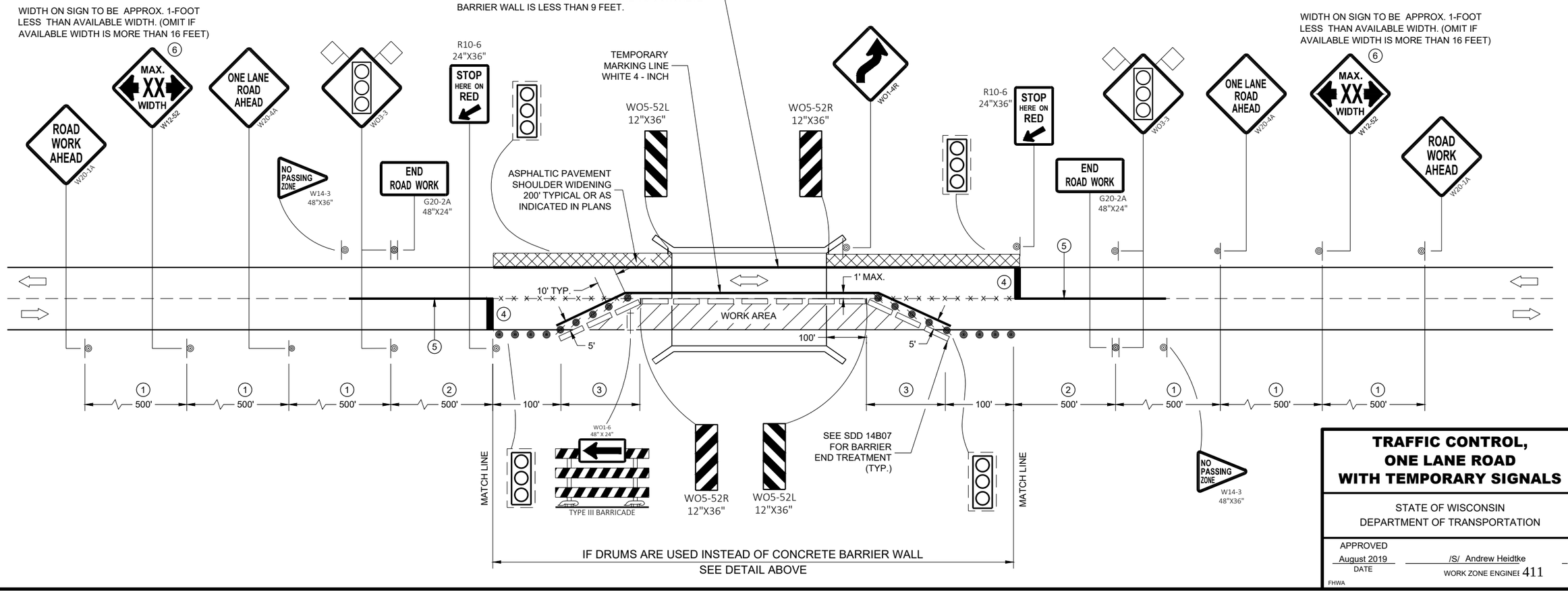
(2) USE 300 FOOT SPACING IF THE PRE - CONSTRUCTION REGULATORY SPEED IS 35 MPH OR LESS.

(3) DIMENSION DETERMINED BY CBTP TAPER FROM EDGE LINE TO TANGENT SECTION OF THE ROAD.

(4) TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18 - INCH.

(5) 700 FOOT TEMPORARY MARKING LINE, DOUBLE YELLOW 4 - INCH . WHEN THE DISTANCE FOR THE PRECEDING NO - PASSING ZONE IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES AS INDICATED IN THE SPECIFICATIONS, THE TWO ZONES SHALL BE CONNECTED.

(6) SEE SDD 15C02 - SHEET "F" FOR ADVANCED WIDTH RESTRICTION SIGNING.



TEMPORARY MARKING LINE WHITE 4 - INCH (STOPLINE TO STOPLINE). REMOVE EXISTING EDGELINE AND OFFSET THE TEMPORARY EDGELINE IF THE DISTANCE FROM THE EDGELINE TO CONCRETE BARRIER WALL IS LESS THAN 9 FEET.

TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2019
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

411

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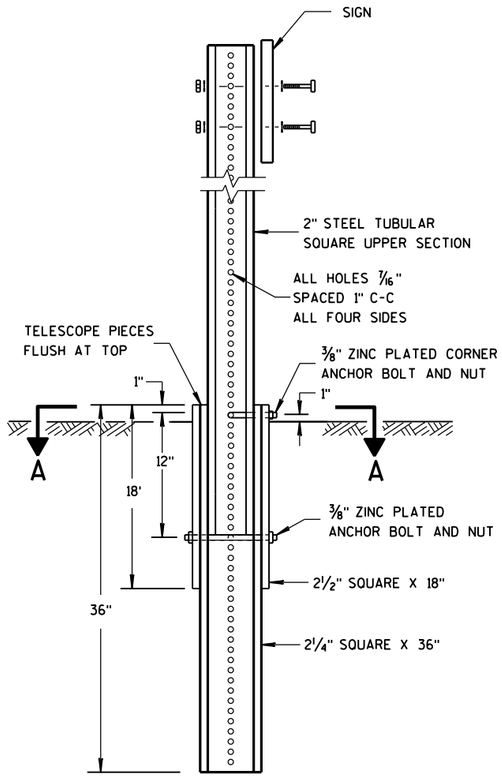
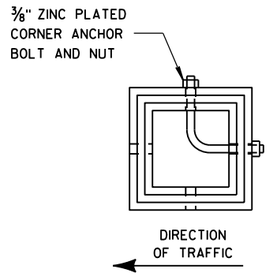
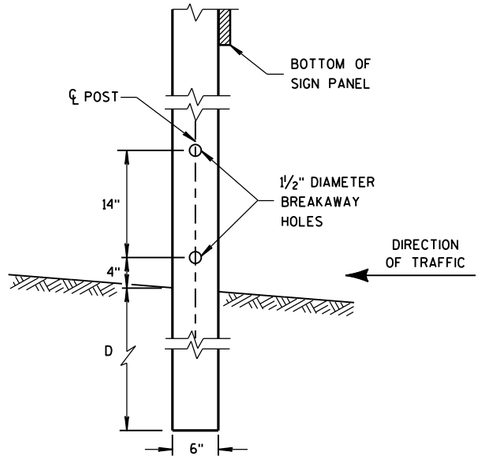


DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



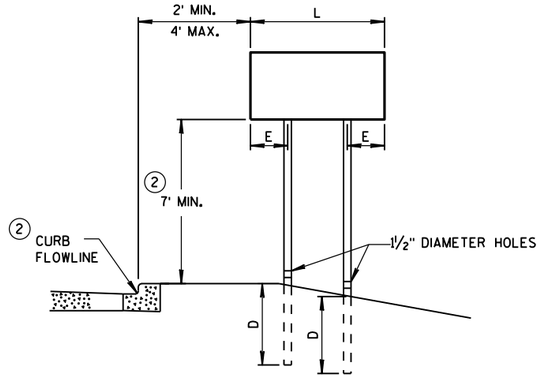
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

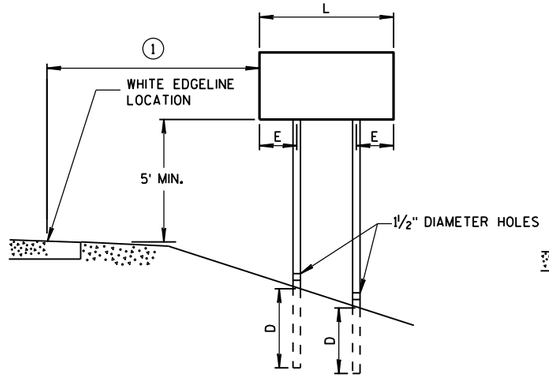
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

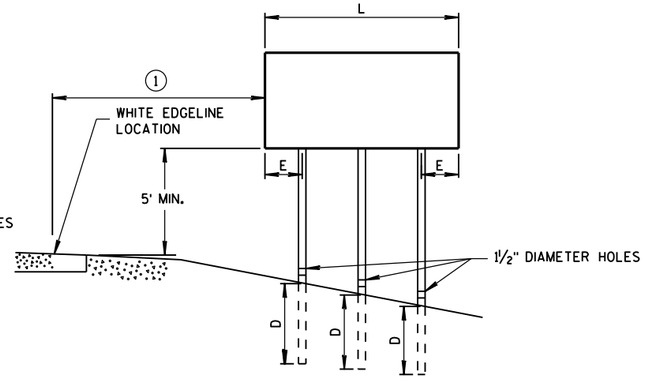
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

(3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

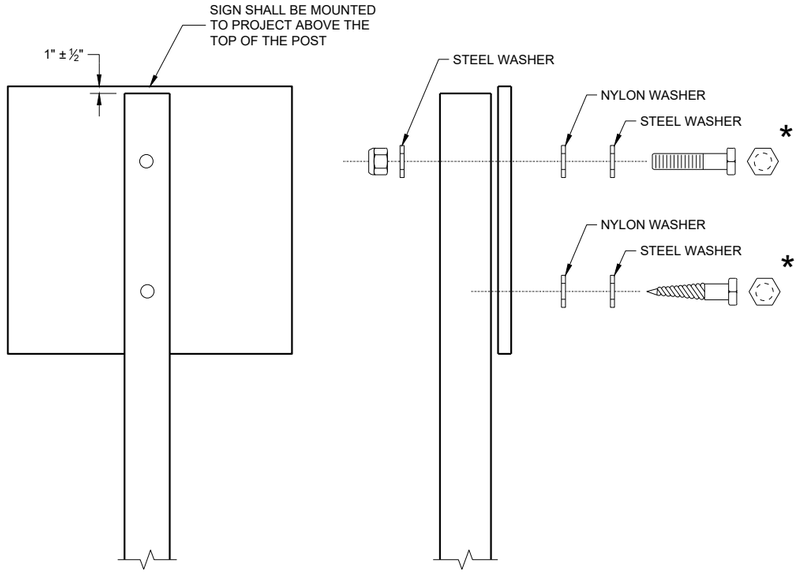
SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 15 D 38-2a



NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3
B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POST (4" x 6")
LAG SCREWS - ⅜" x 3"
MACHINE BOLTS - 5/16" x 6 ½" OR 7" LENGTH W/NUTS

SQUARE STEEL POST (2" x 2")
MACHINE BOLTS - ⅜" x 3 ¼" LENGTH W/NUTS
RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE 0.720 - 0.765 INCH, GRIP RANGE 0.042 - 0.375 INCH

WASHERS (ALL POSTS) -
1 ¼" O.D. x ⅜" I.D. x 1/16" STEEL
1 ¼" O.D. x ⅜" I.D. x 0.080 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. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

6

6

SDD 15D38 - 02b

SDD 15D38 - 02b

ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA

LEGEND

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

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 DESIREABLE) DISTANCE TO EXISTING SIGNS.

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

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

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

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

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

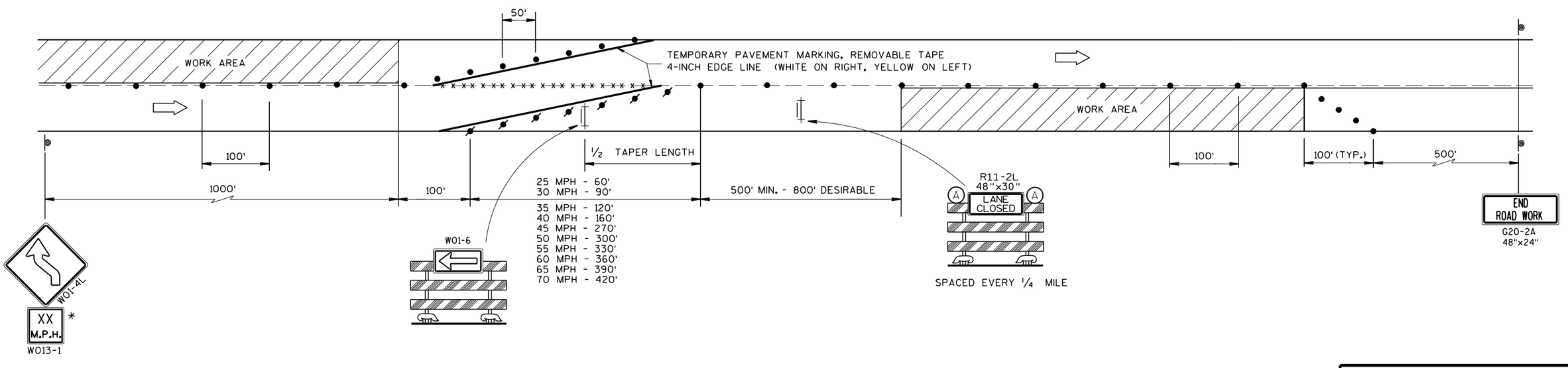
FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE 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 CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST 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.



* USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED

LANE SHIFT MULTI-LANE DIVIDED OR ONE WAY ROAD

TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE WAY ROAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018
DATE
/S/ Andrew I
WORK ZONE E
FHWA

6

S.D.D. 15 D 40-1

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.

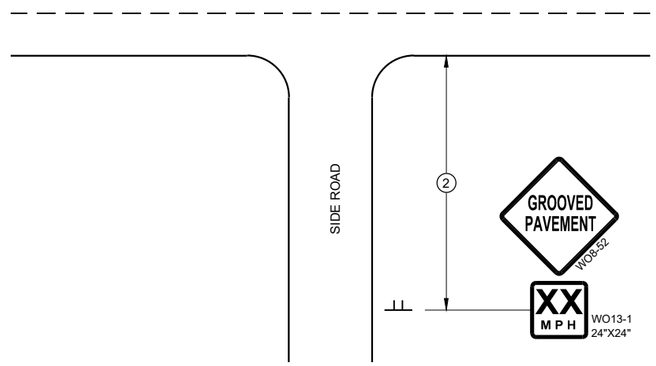
(1) PLACE SIGNS 350' IN ADVANCE OF MILLED SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.

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

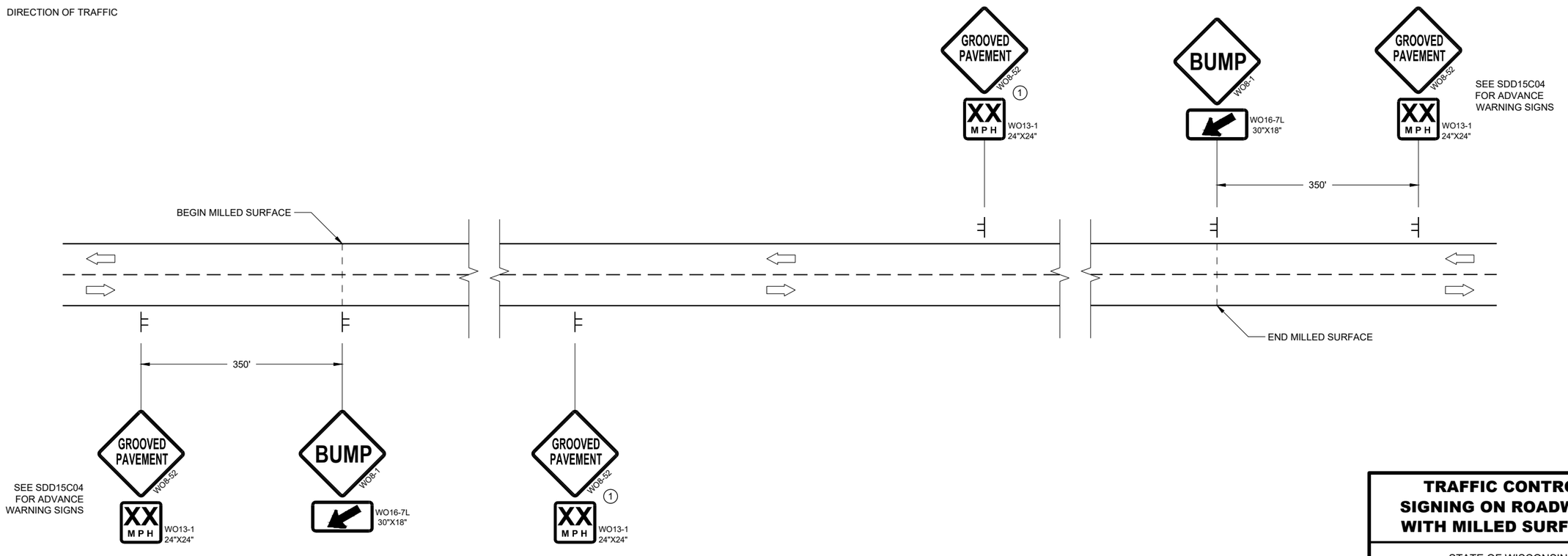
LEGEND

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
August 2019
DATE

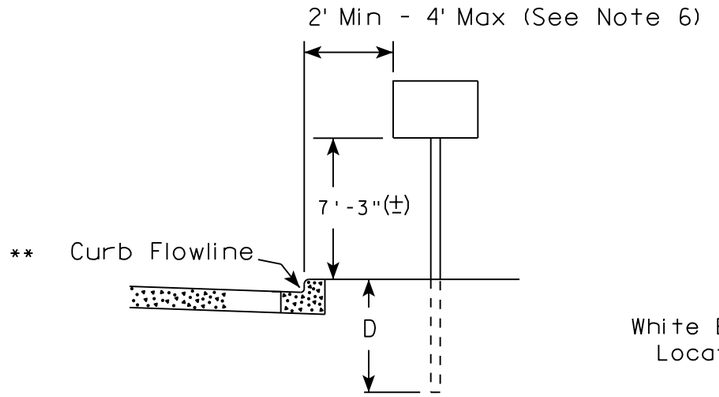
/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

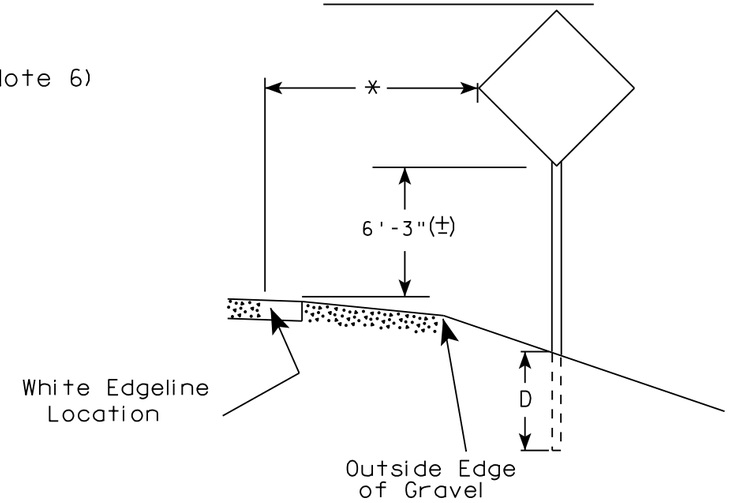
6

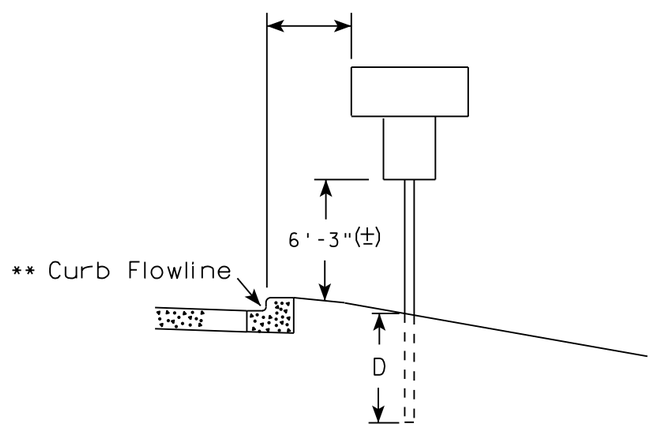
SDD 15D44 - 01

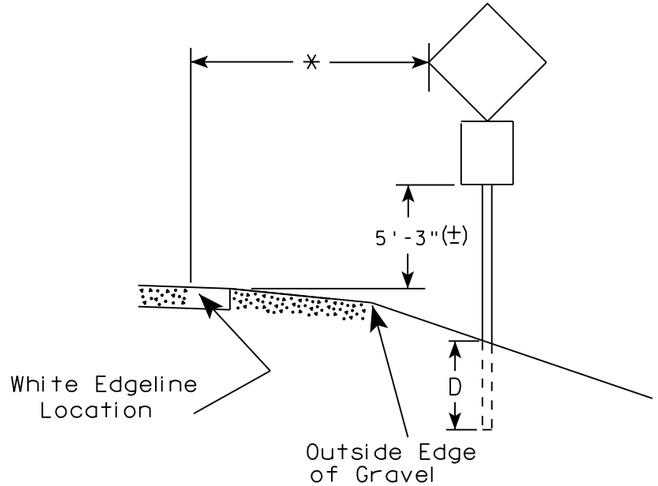
URBAN AREA



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

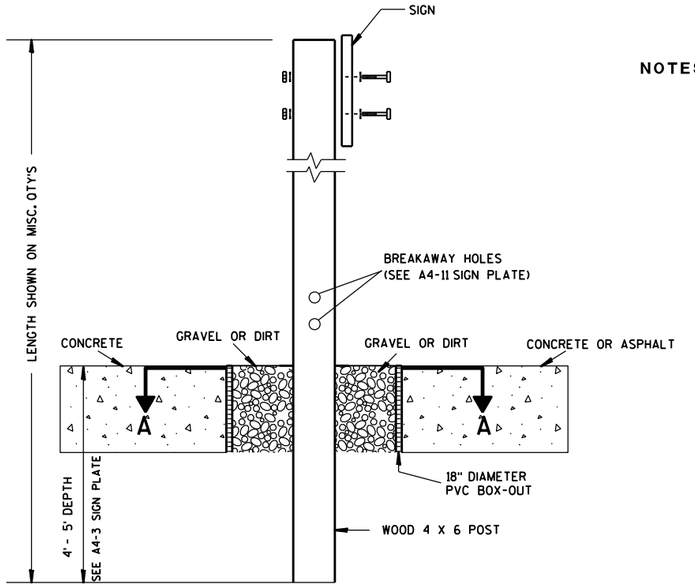
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-3.21

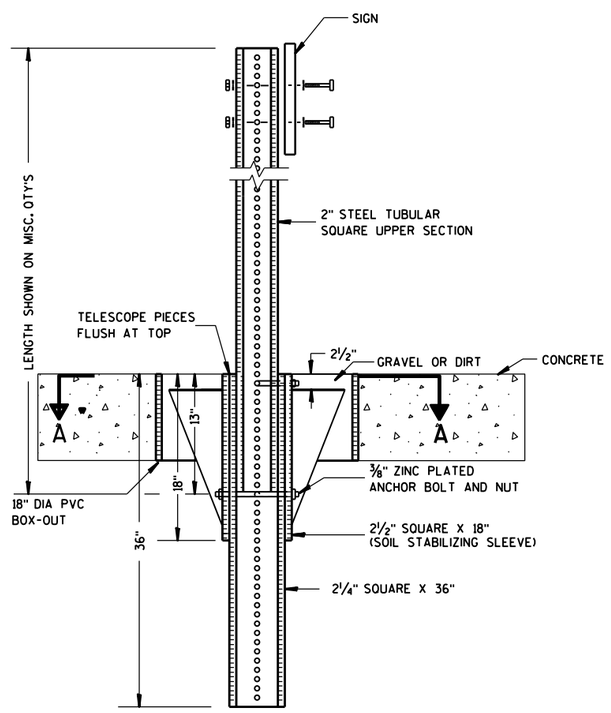
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 416	E



ELEVATION VIEW

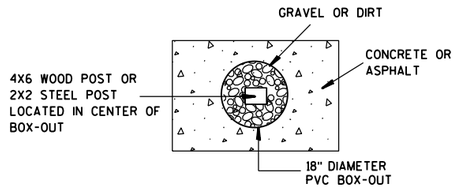
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

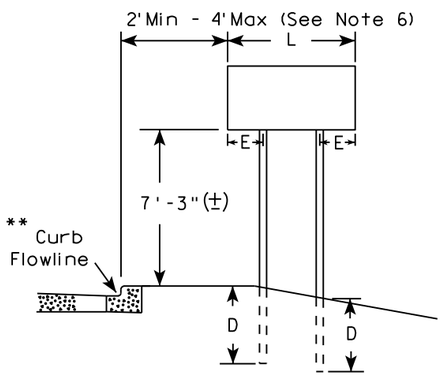
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

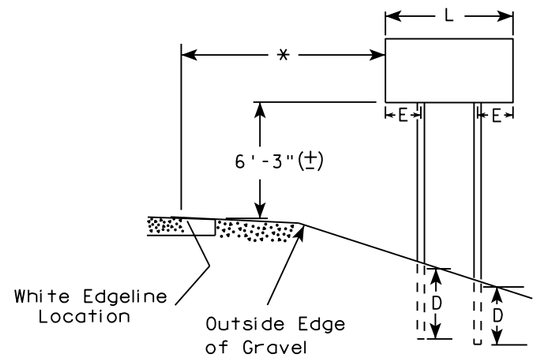
DATE 1/27/14 PLATE NO. A4-3B.1

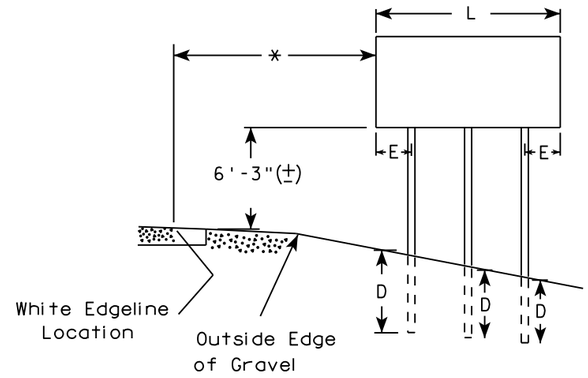
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

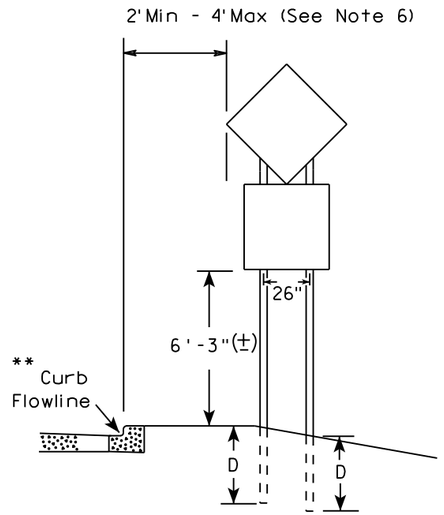
URBAN AREA



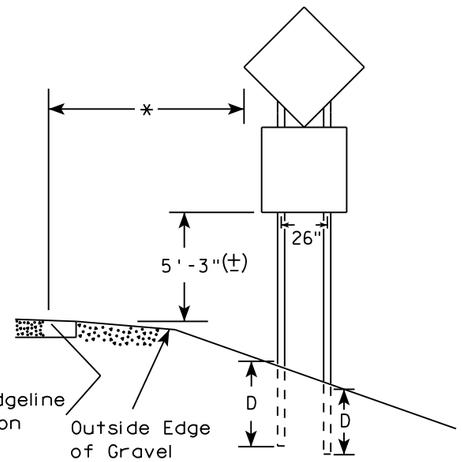
RURAL AREA (See Note 3)







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'

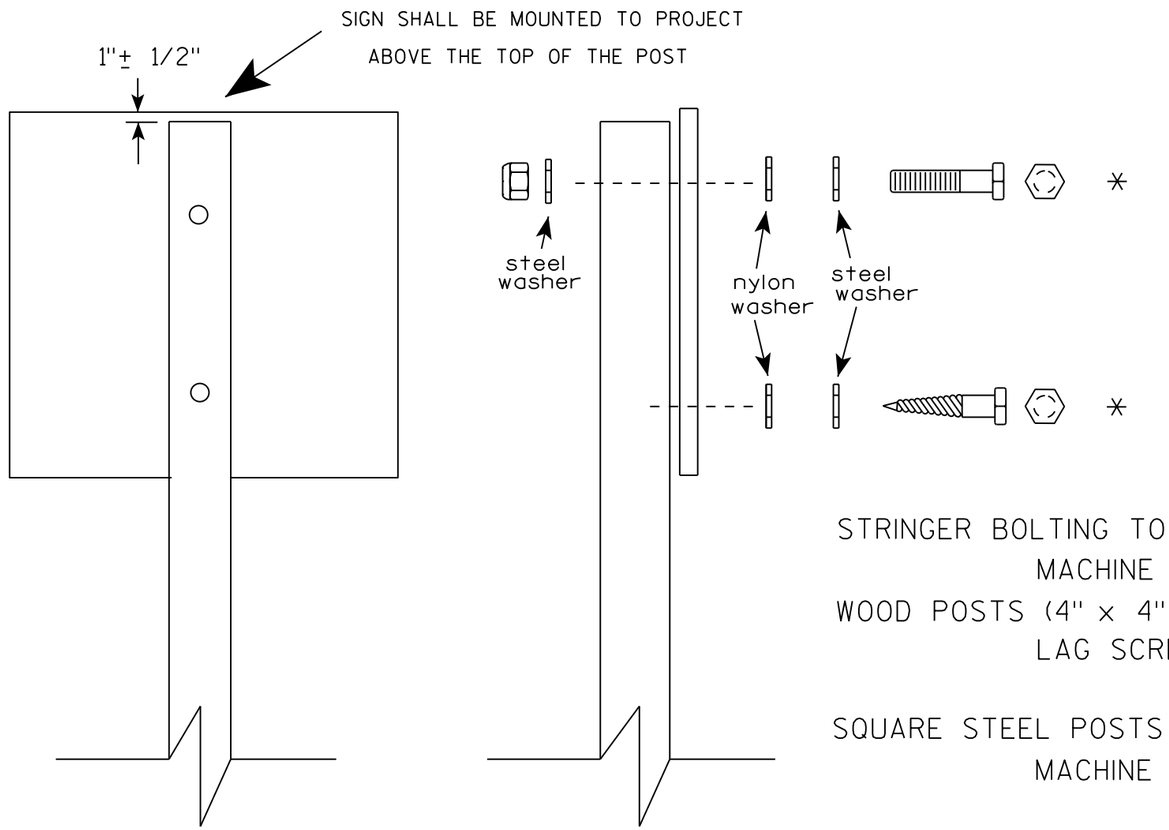
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

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: 418	E



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)
MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts
WOOD POSTS (4" x 4" or 4" x 6")
LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)
SQUARE STEEL POSTS (2" x 2")
MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)
RIVETS - 9/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH
WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

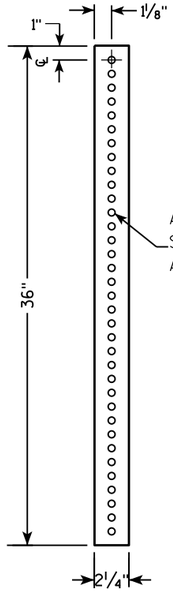
DATE 8/11/16 PLATE NO. A4-8.8

PROJECT NO: SHEET NO: E

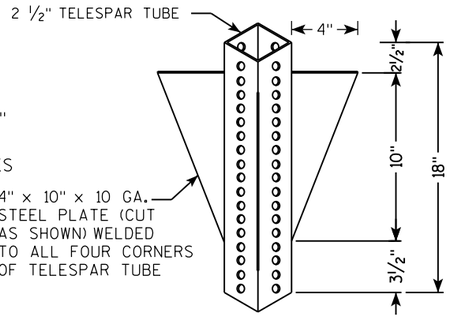
FILE NAME : C:\CADfiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 11-AUG-2016 11:35 PLOT BY : $$ plotuser $$

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

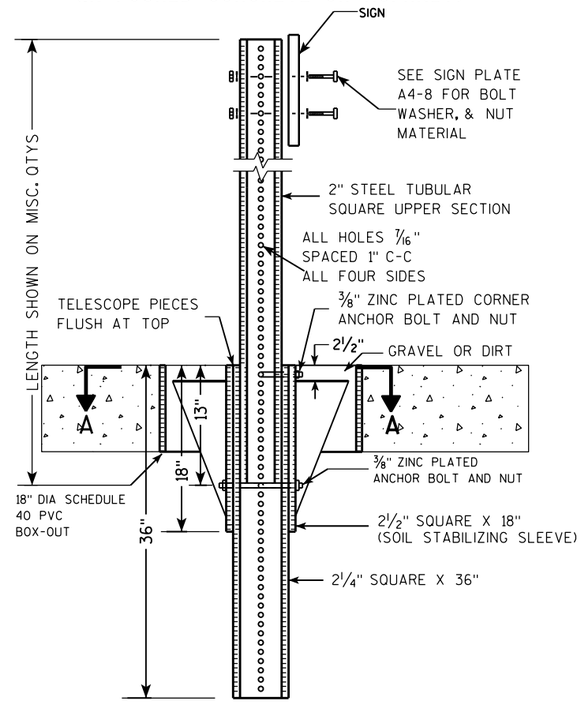
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



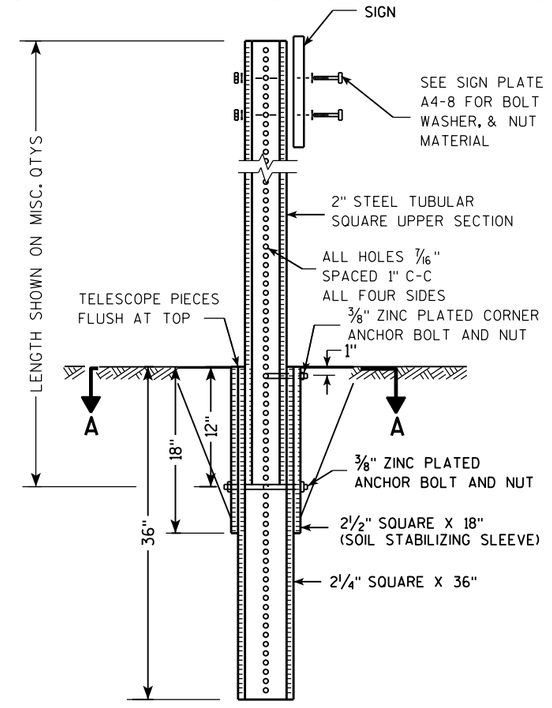
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

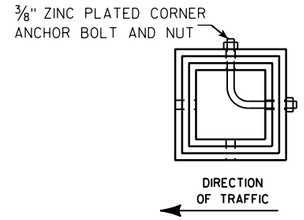


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

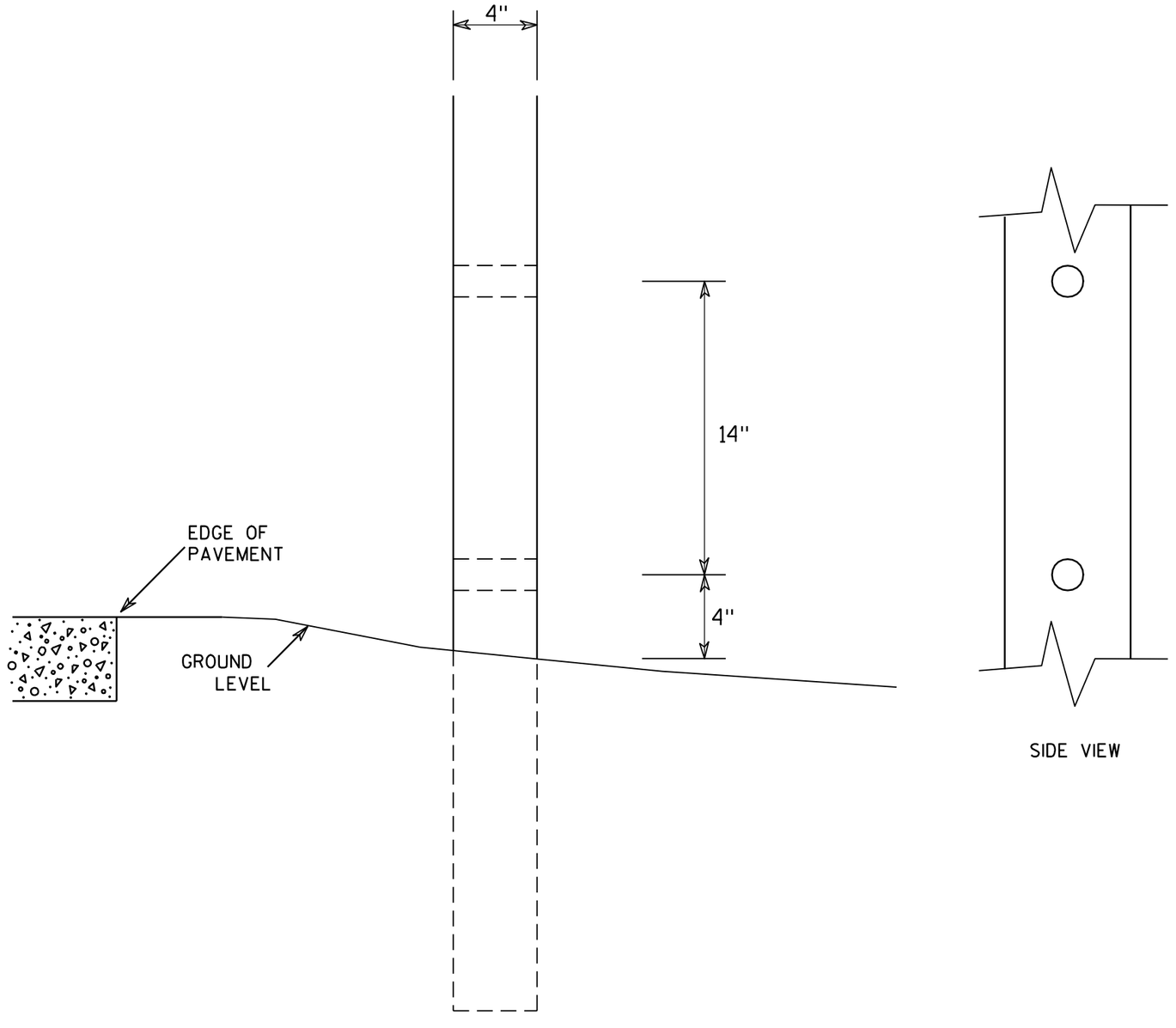
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 420 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE : 05-FEB-2015 17:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000

WISDOT/CADDS SHEET 42



SIDE VIEW

GENERAL NOTES

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

7

7

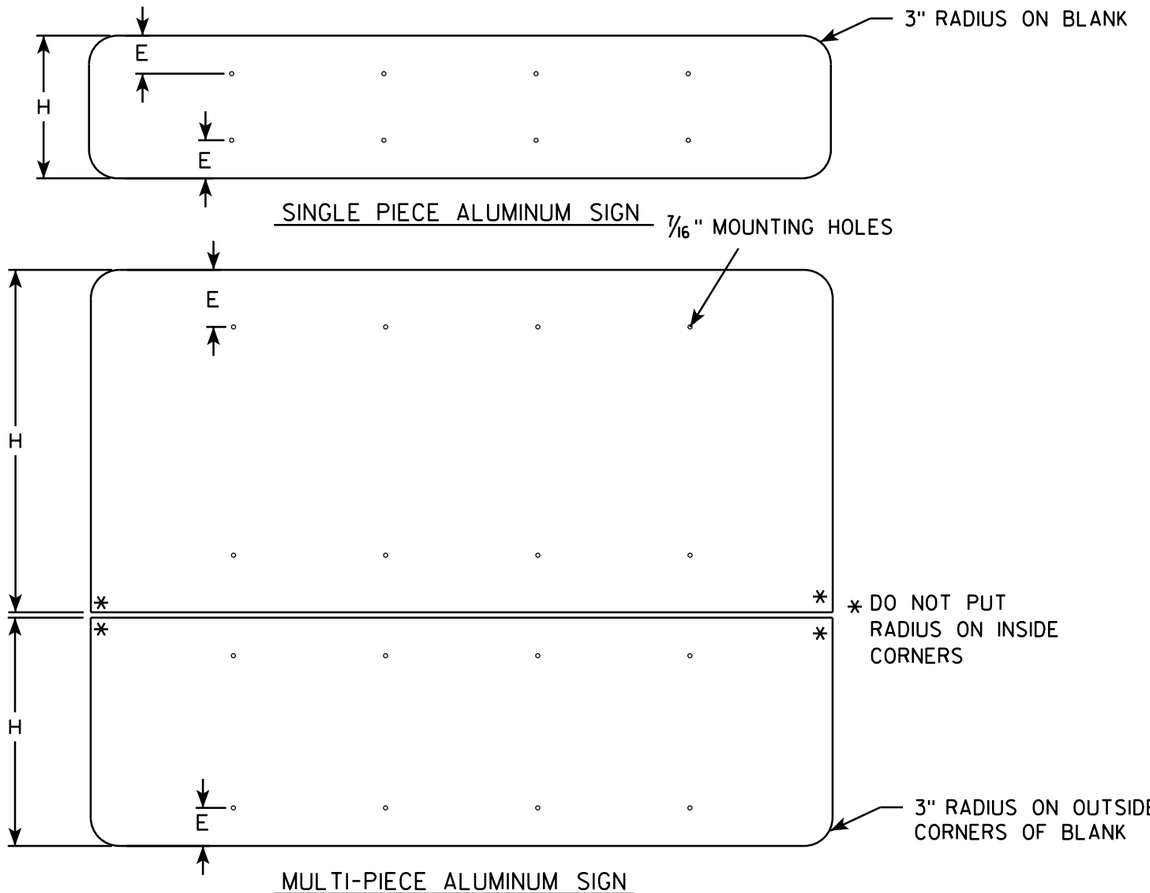
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang
for State Traffic Engineer

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

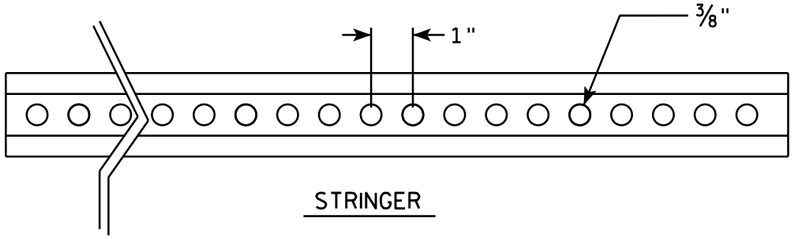
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 421	E



GENERAL NOTES

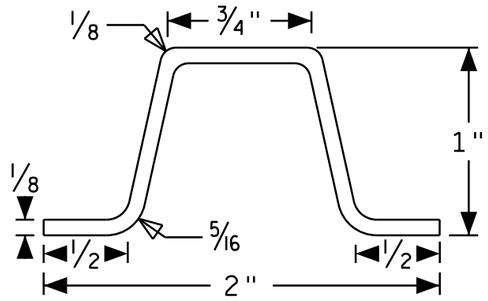
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING	MOUNTING HOLES
78"	72"	2	16"	15" 31" 47" 63"
84"	72"	2	17"	16½" 33½" 50½" 67½"
90"	72"	2	18"	18" 36" 54" 72"
96"	90"	2	19"	19½" 38½" 57½" 76½"
102"	90"	2	20"	21" 41" 61" 81"
108"	90"	2	21"	22½" 43½" 64½" 85½"
114"	108"	3	15"	12" 27" 42" 57" 72" 87" 102"
120"	108"	3	16"	12" 28" 44" 60" 76" 92" 108"
126"	108"	3	17"	12" 29" 46" 63" 80" 97" 114"
132"	126"	3	18"	12" 30" 48" 66" 84" 102" 120"
138"	126"	3	19"	12" 31" 50" 69" 88" 107" 126"
144"	126"	3	20"	12" 32" 52" 72" 92" 112" 132"

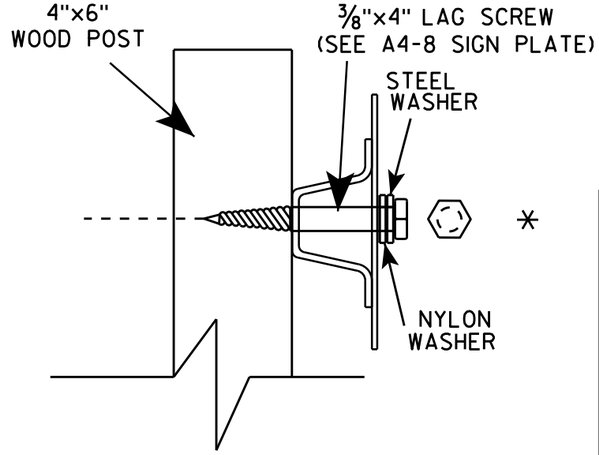


STRINGER

CROSS SECTION VIEW OF CHANNEL



POST MOUNTING



SIGN STRINGER MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

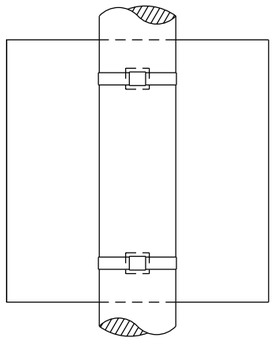
DATE 4/26/16 PLATE NO A4-18.1

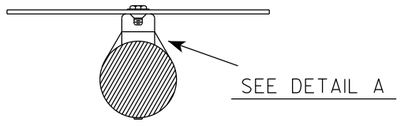
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

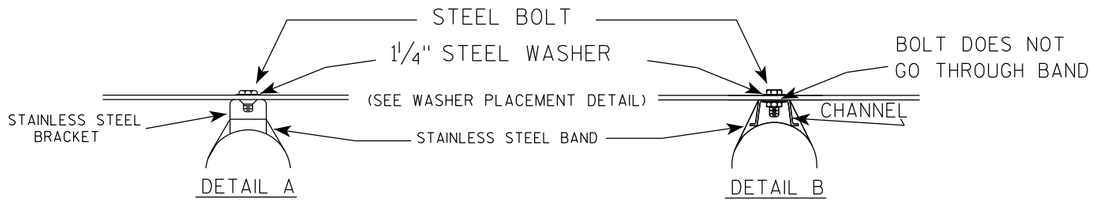
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A418.dgn PLOT DATE : 27-APR-2016 13:56 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 41.805205:1.000000 WISDOT/CADDS SHEET 42

BANDING

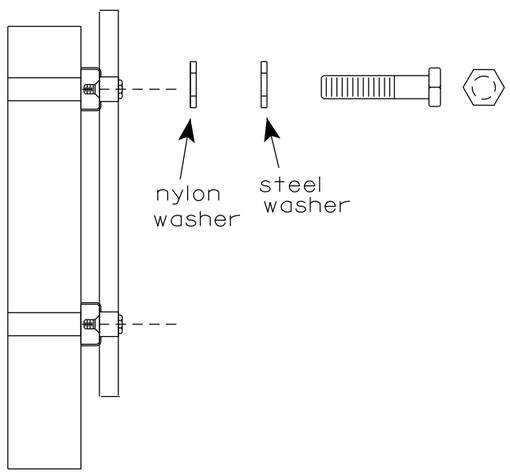
SINGLE SIGN







WASHER PLACEMENT

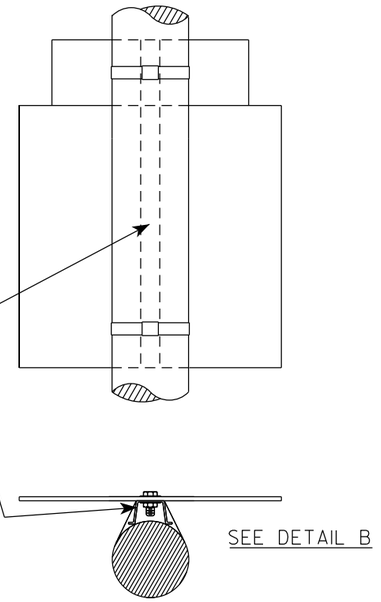


WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

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

"J" ASSEMBLY



STANDARD SIGN
SIGN BANDING DETAILS

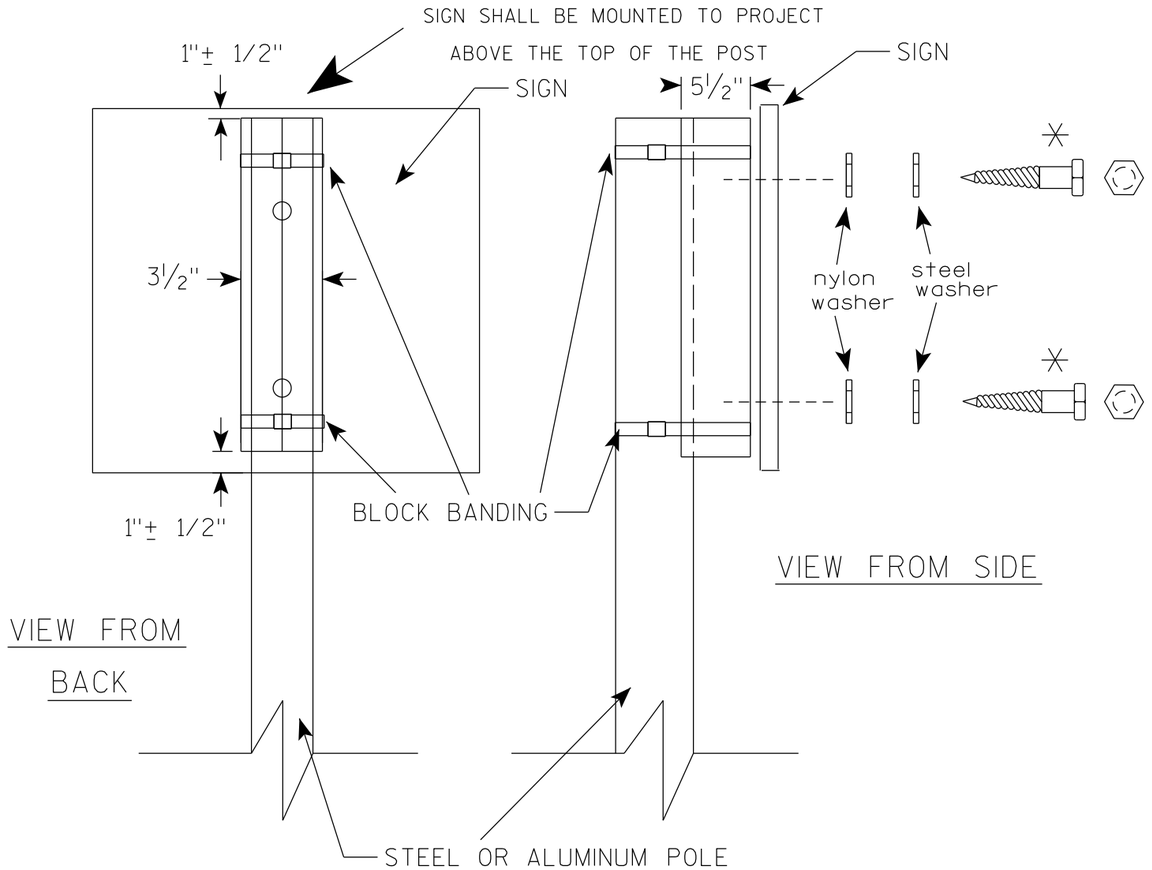
WISCONSIN DEPT OF TRANSPORTATION

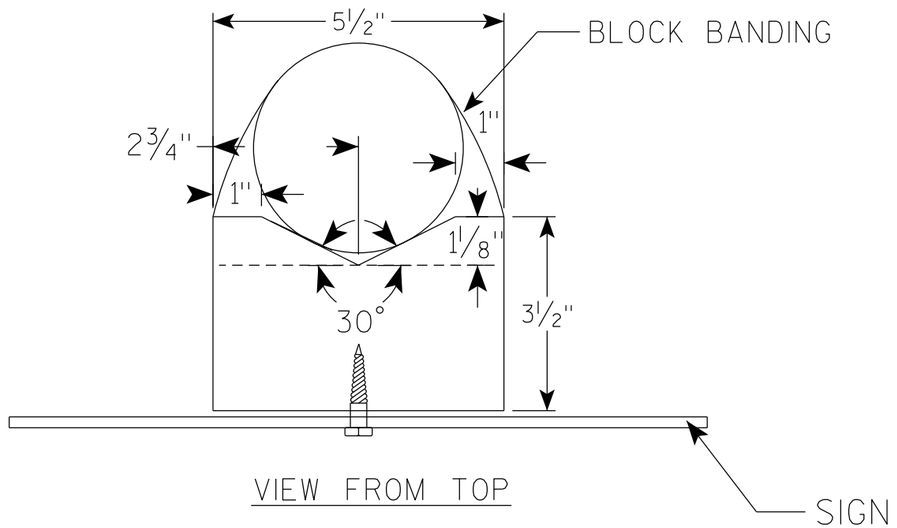
APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 423	E

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





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

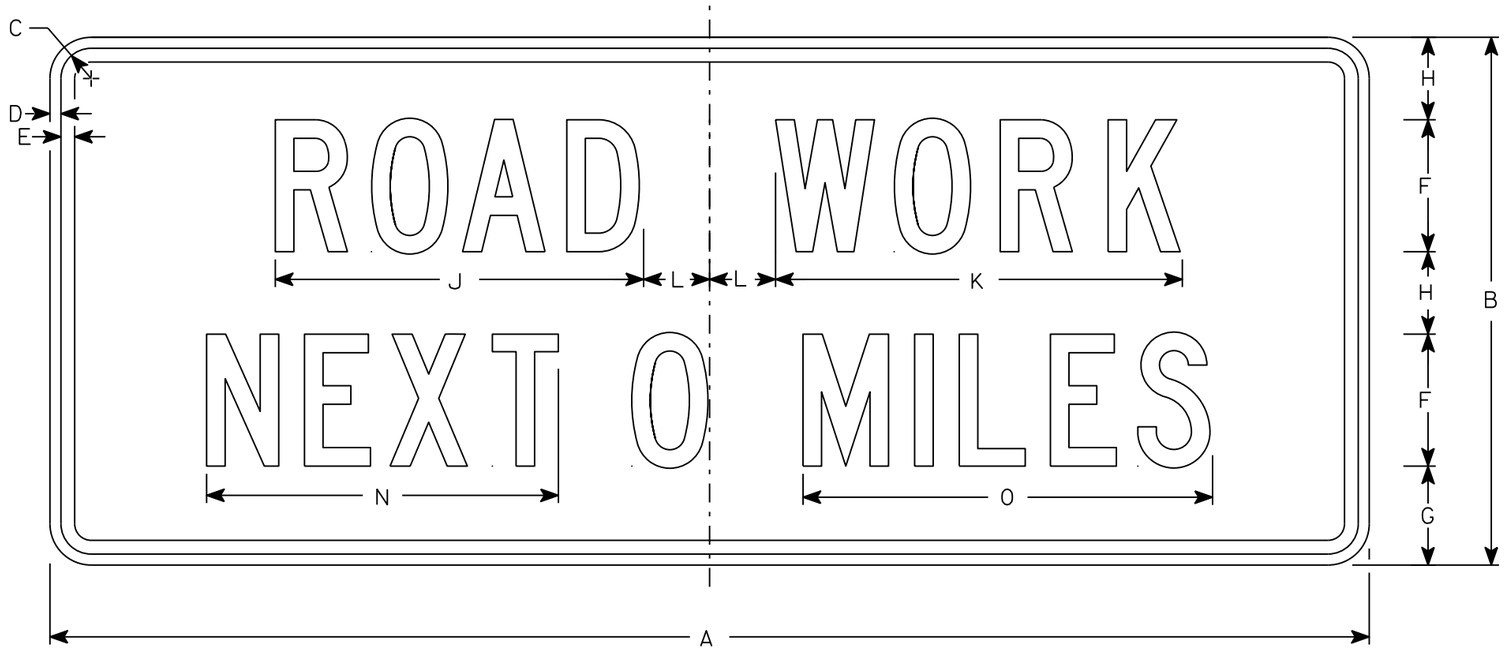
BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 6/10/19 PLATE NO. A5-10.2

PROJECT NO:				SHEET NO: 424	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																											

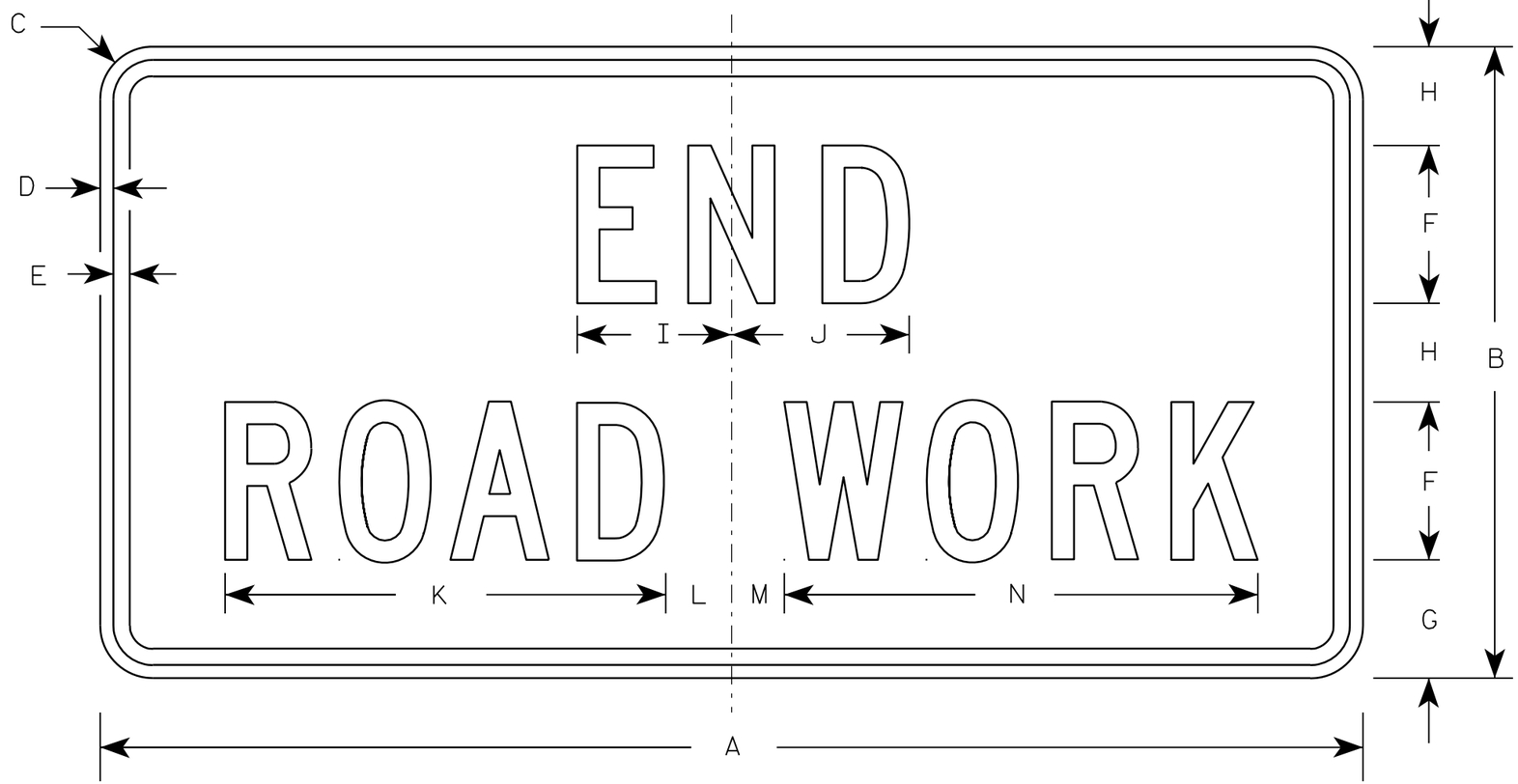
STANDARD SIGN
G20-1

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: 425 | 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

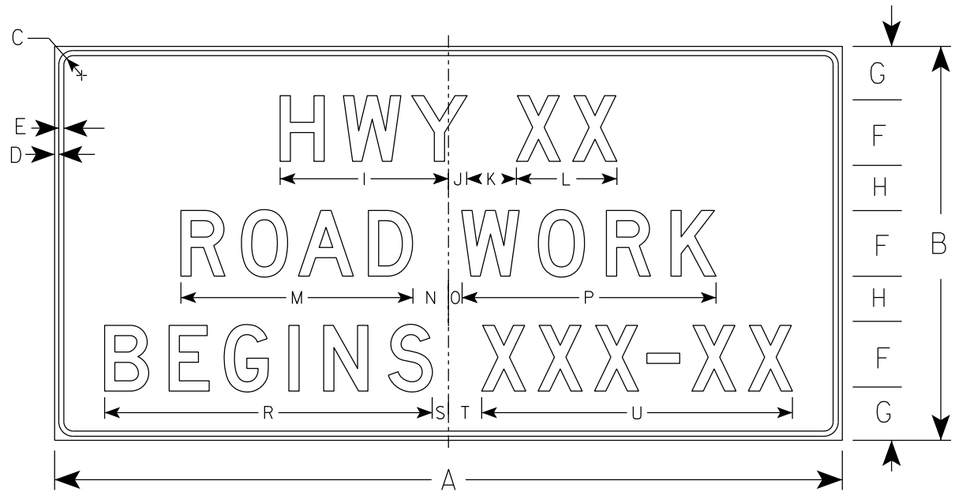
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 426	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

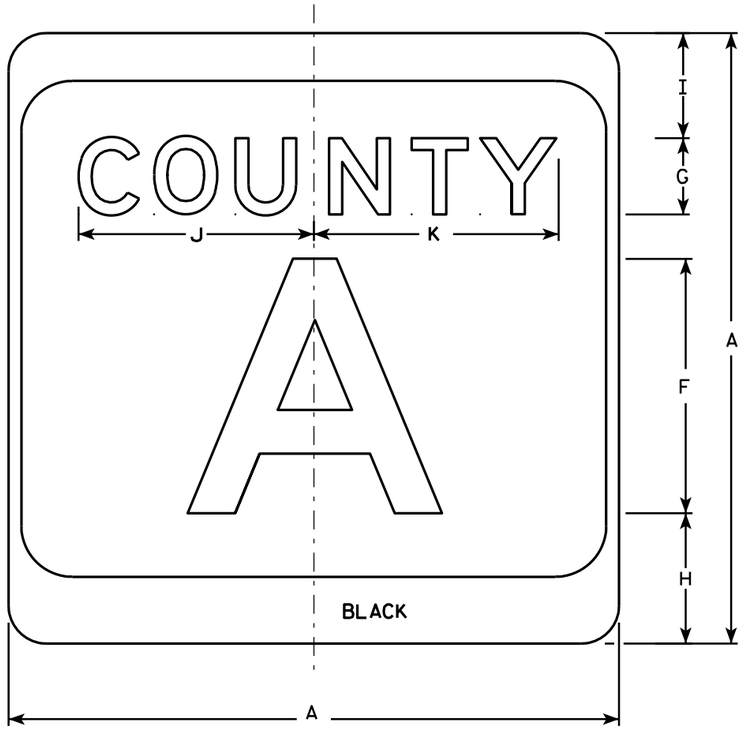
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 1/22/19 PLATE NO. G20-57.3

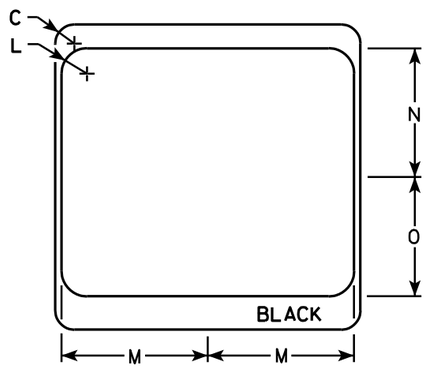
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 427 | E

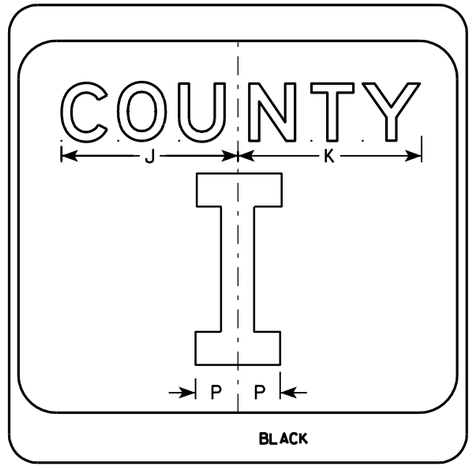
7

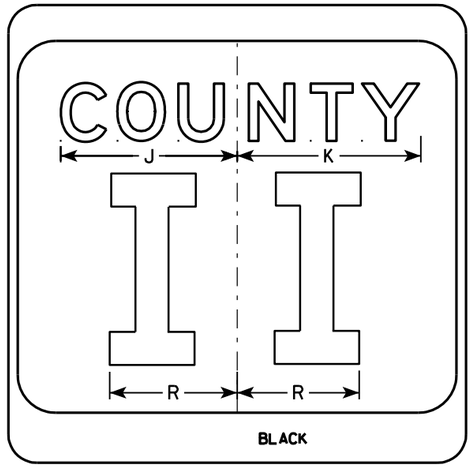
7



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

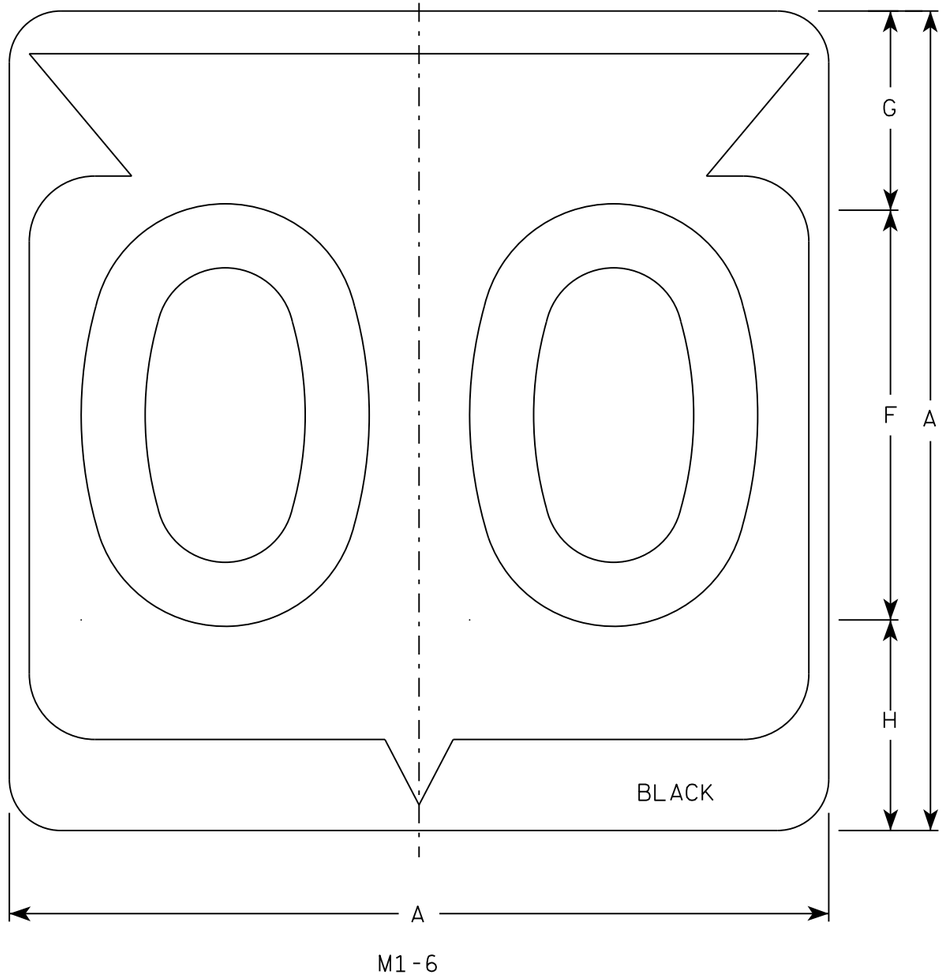
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

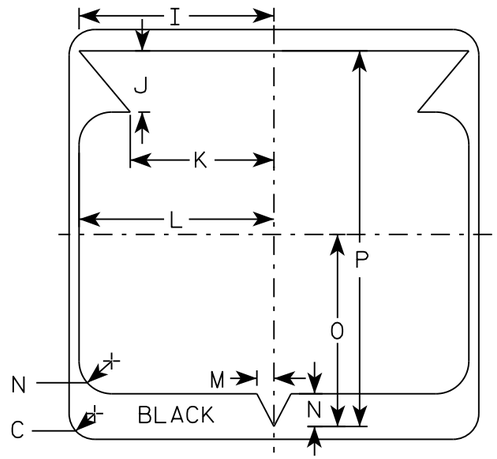
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 428	E



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

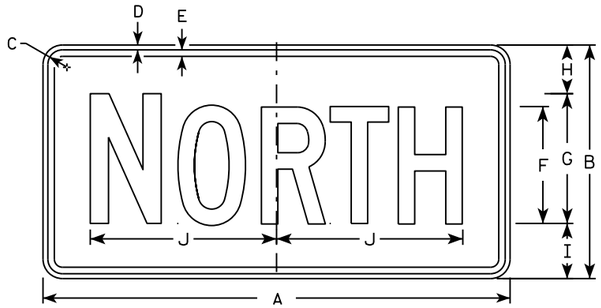
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

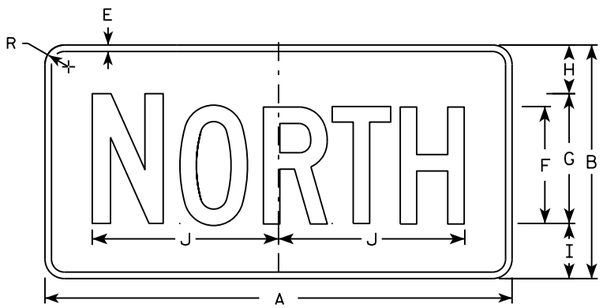
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/16/18 PLATE NO. M1-6.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 429 E



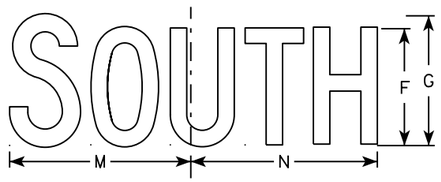
M3-1
MM3-1
MP3-1



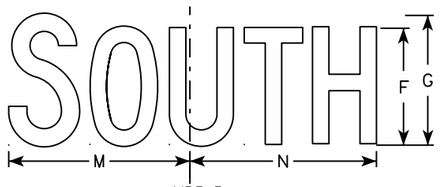
MB3-1
MK3-1
MN3-1

M3-2
MM3-2
MP3-2

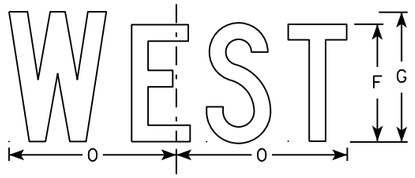
MB3-2
MK3-2
MN3-2



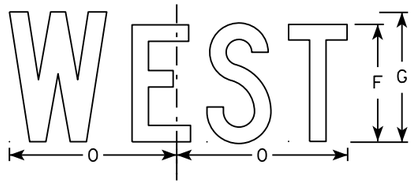
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

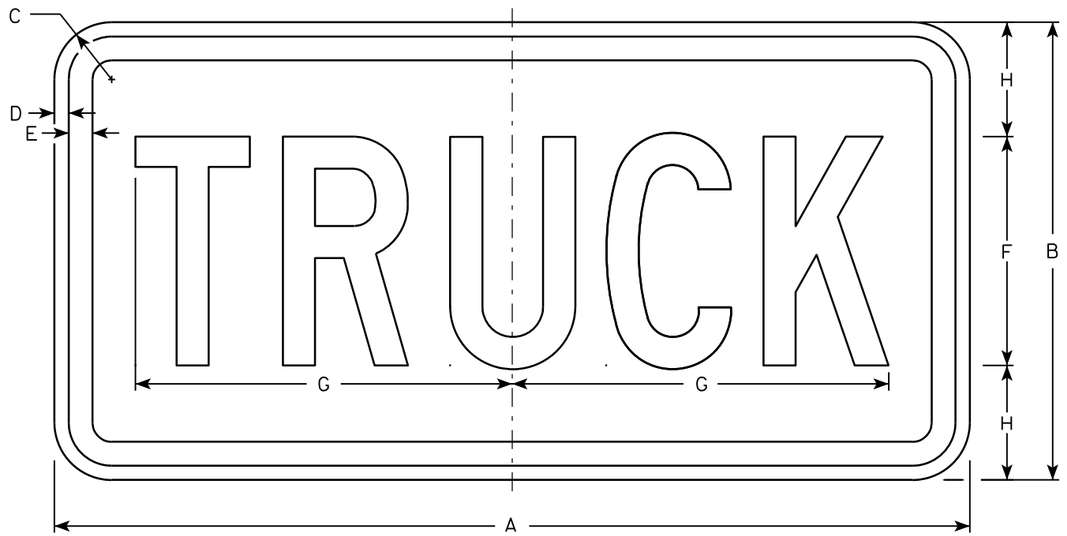
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

DATE 10/15/15 PLATE NO M3-1.14

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



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																											

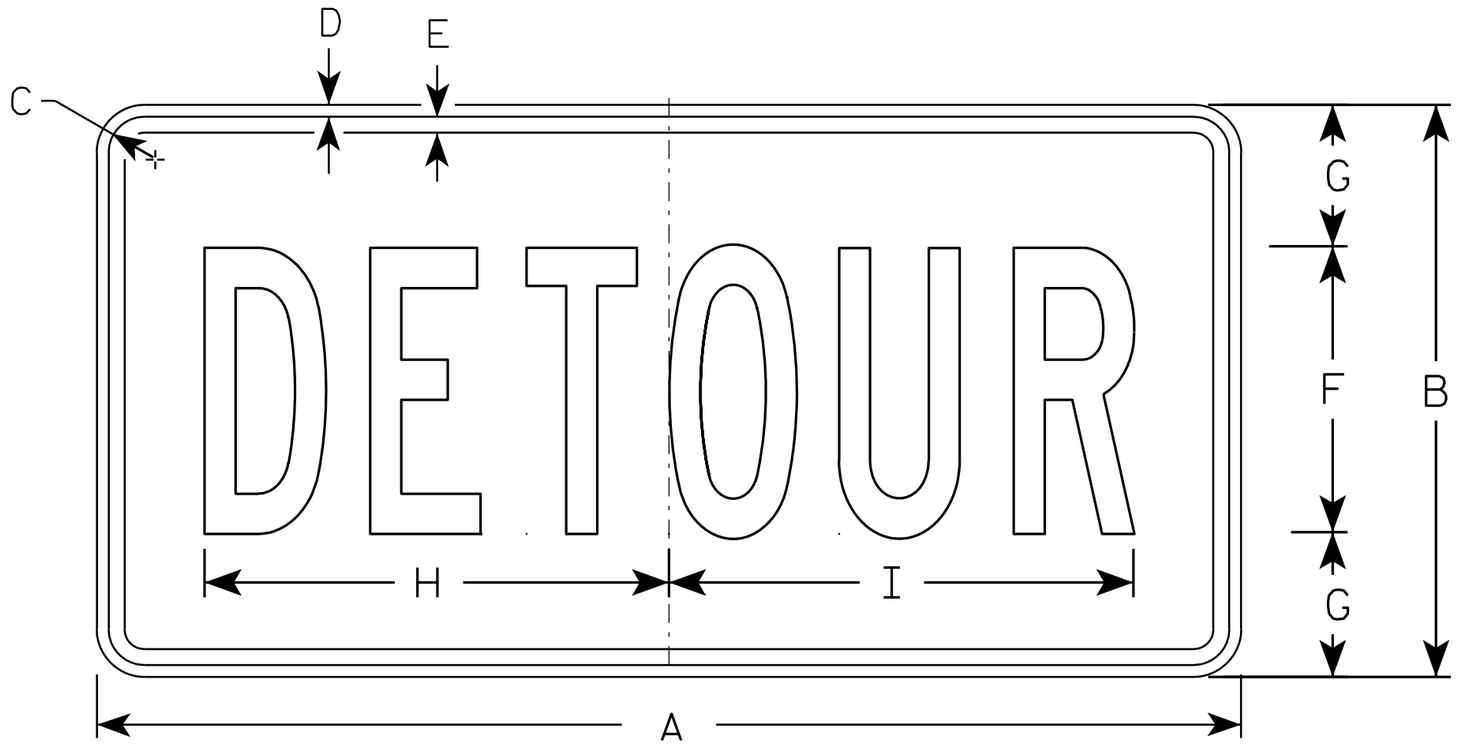
STANDARD SIGN
M4-4

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: 431 | E



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																											

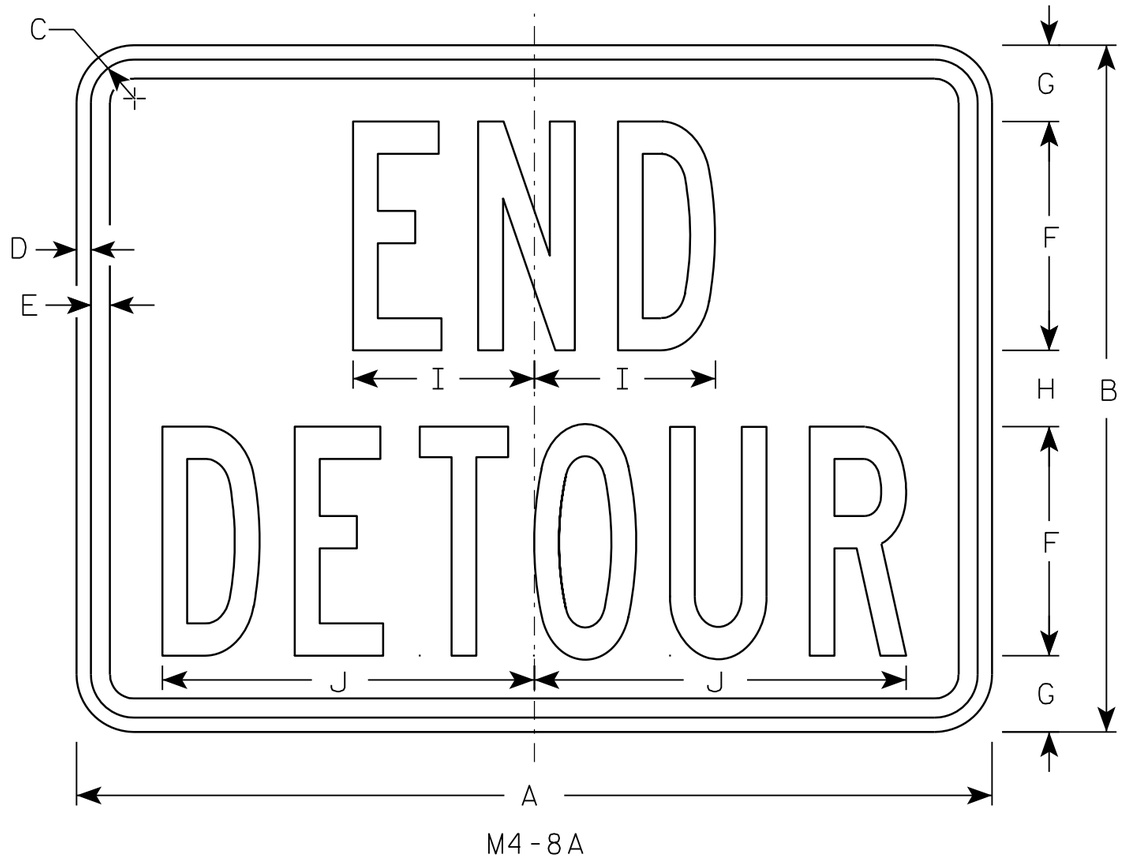
STANDARD SIGN
M4-8

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: 432	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																											

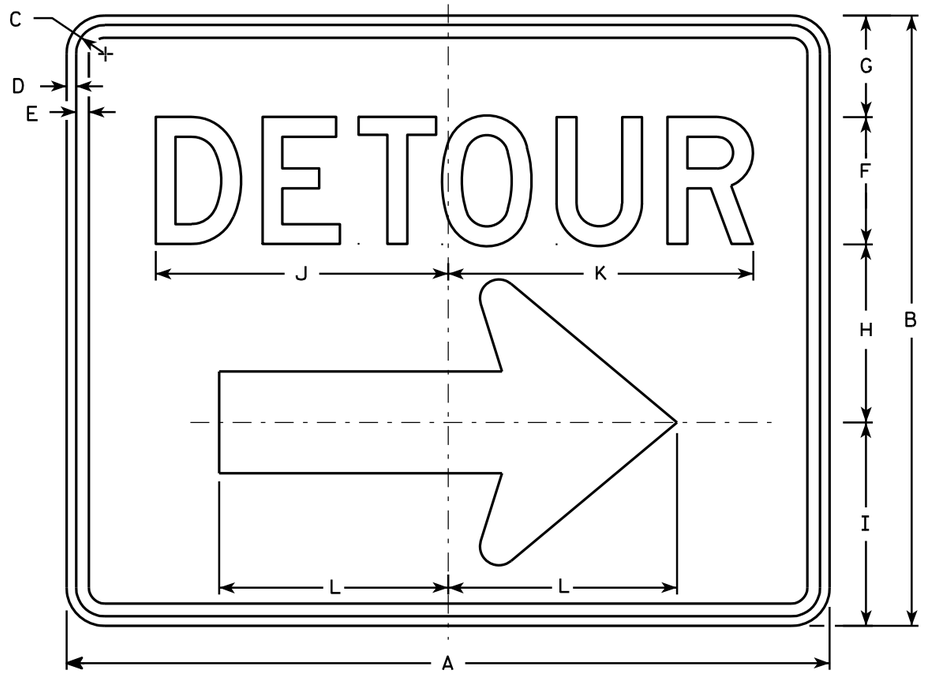
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-8A.2

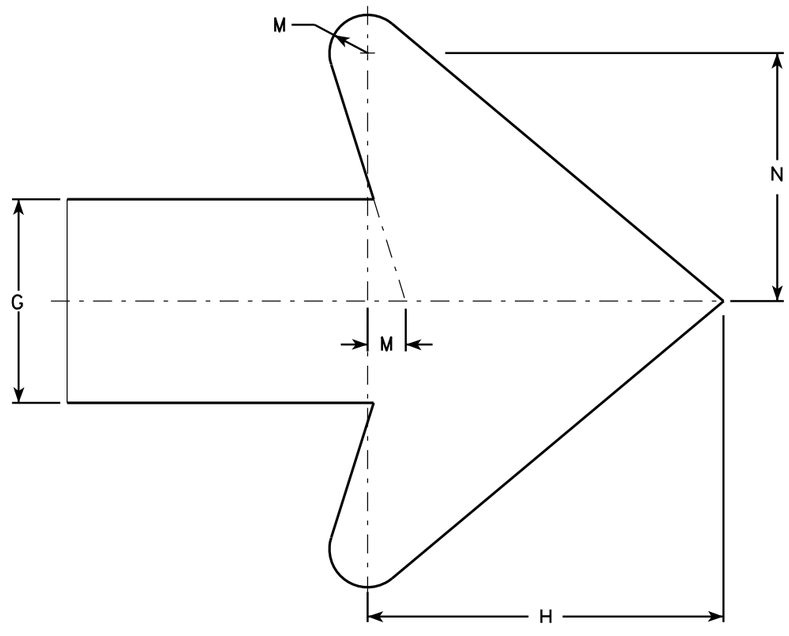
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 433	E



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

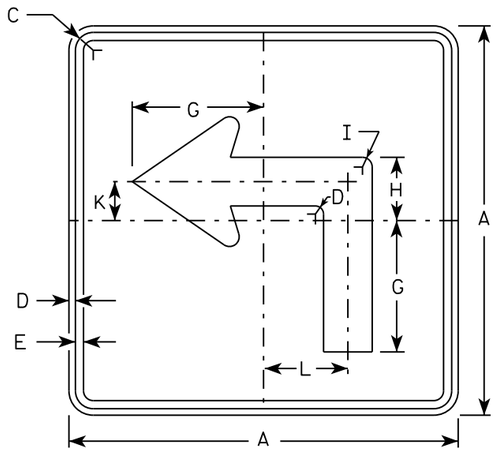
STANDARD SIGN
M4-9 R & L

WISCONSIN DEPT OF TRANSPORTATION

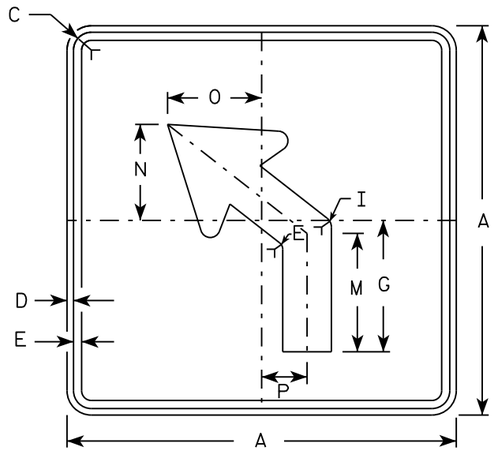
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-9R.4

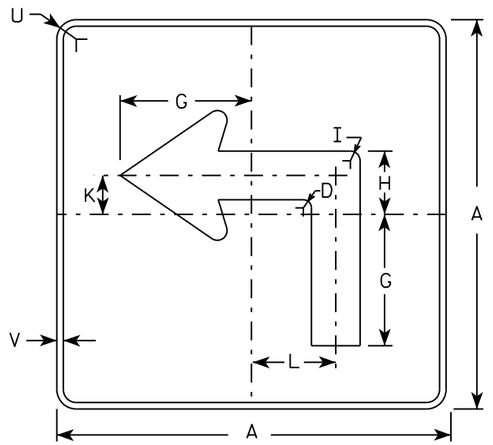
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 434	E



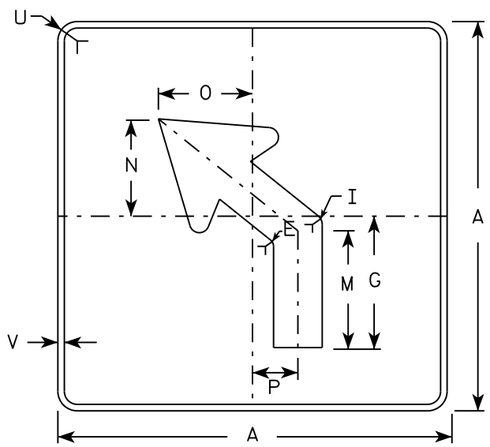
M5-1L
MM5-1L
MO5-1L
MP5-1L



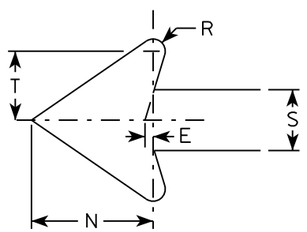
M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L



MB5-2L
MK5-2L
MN5-2L
MR5-2L



NOTES

1. Signs are Type II - Type H reflective except as shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White - Type H Reflective
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

STANDARD SIGN
M5-1 & M5-2

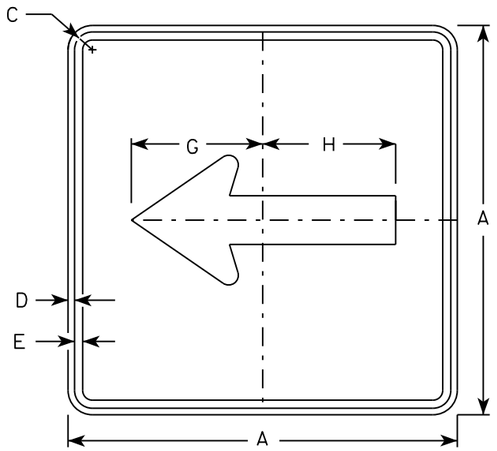
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

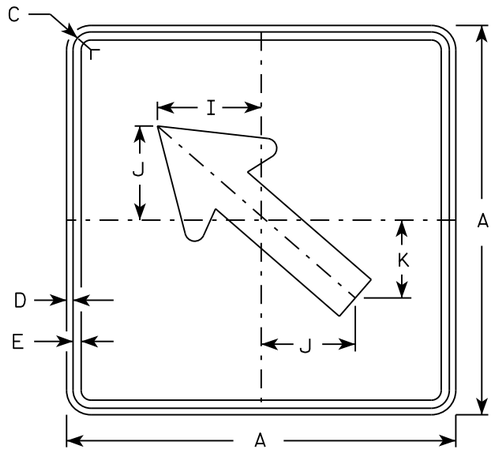
DATE 10/15/15 PLATE NO. M5-1.13

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M51.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



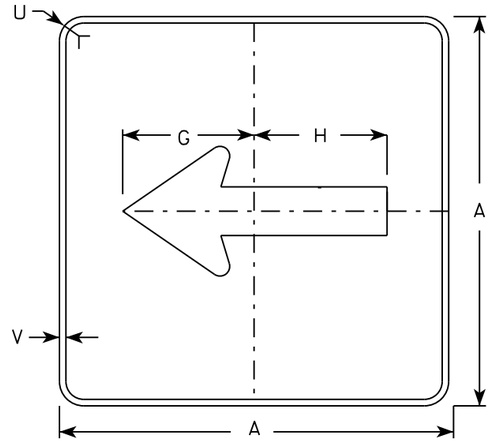
M6-1
MM6-1
MO6-1
MP6-1



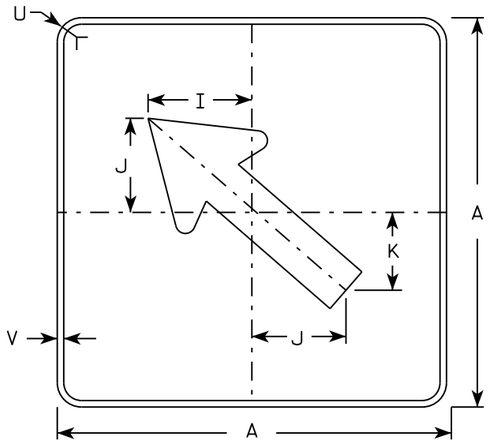
M6-2
MM6-2
MO6-2
MP6-2

NOTES

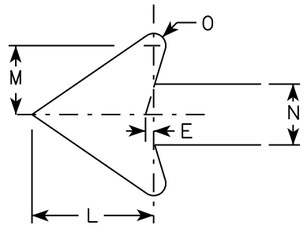
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



MB6-1
MK6-1
MN6-1
MR6-1



MB6-2
MK6-2
MN6-2
MR6-2



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2						3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25

STANDARD SIGN M6-1 & M6-2 SERIES

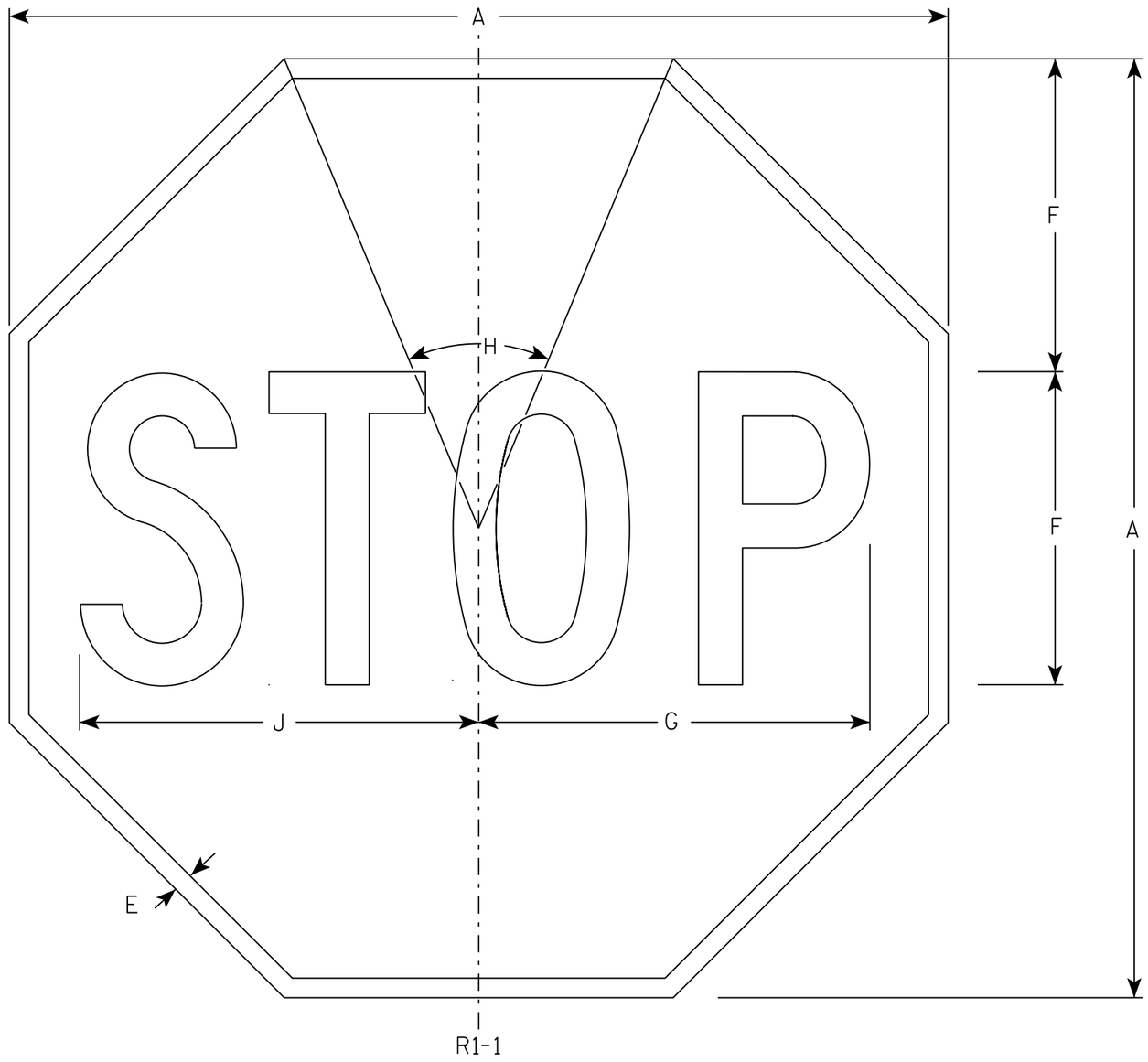
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 436 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

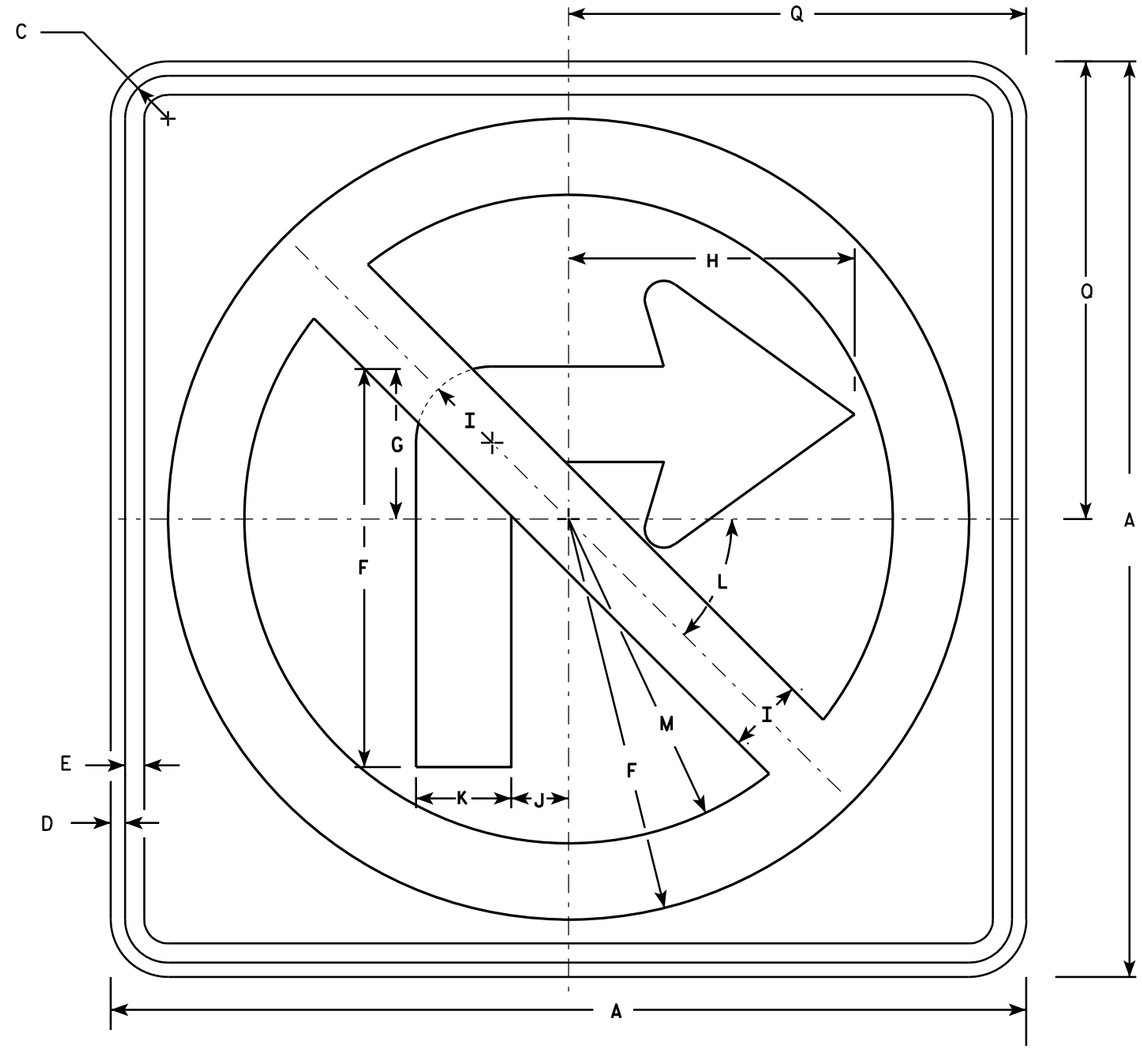
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

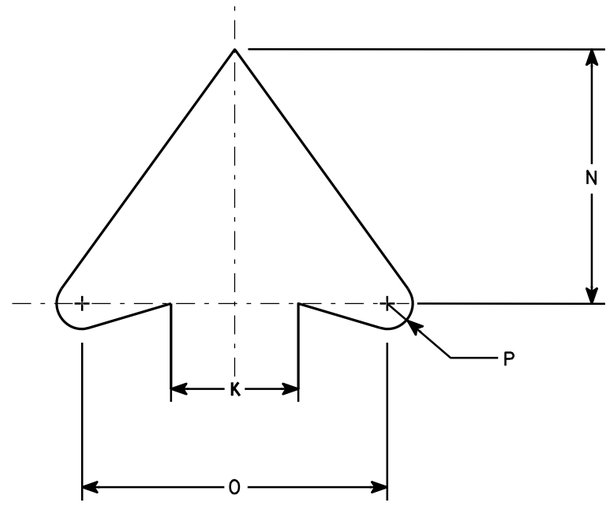
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 437	E



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

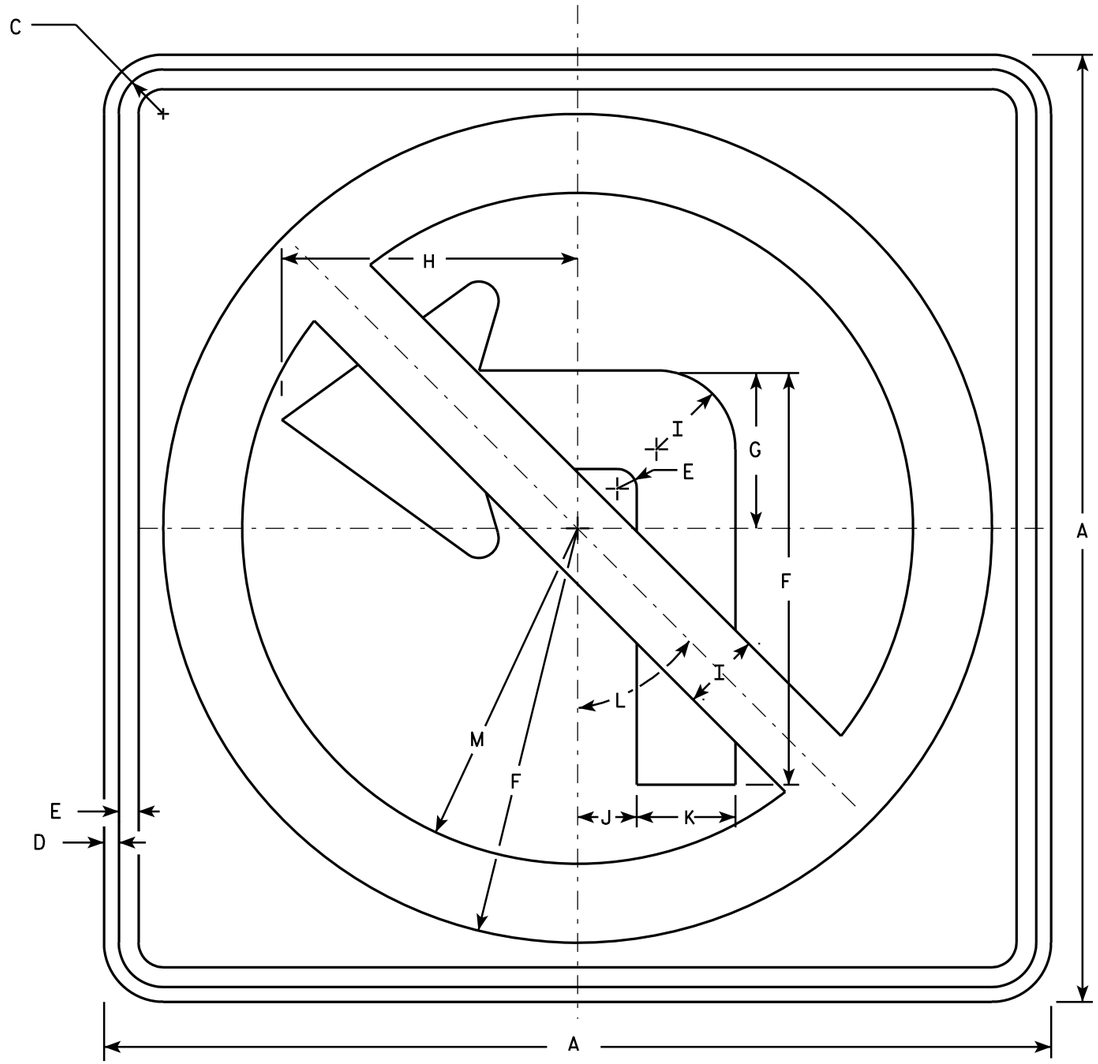
STANDARD SIGN
R3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-1.5

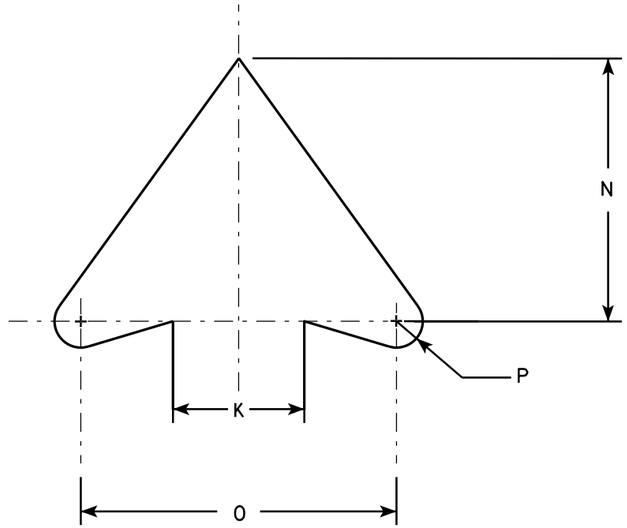
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 438	E



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: 439	E

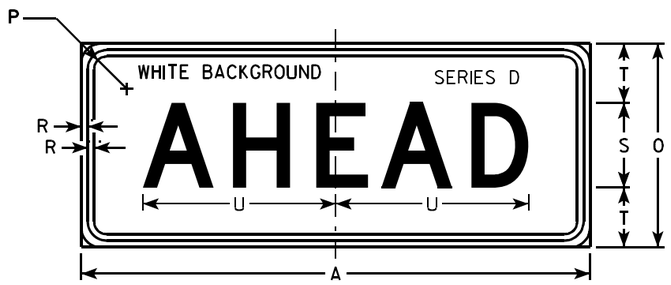
FILE NAME : C:\Users\PROJECTS\tr_stdplate\R32.DGN PLOT DATE : 08-DEC-2010 14:41 PLOT BY : dotsja PLOT NAME : PLOT SCALE : 5.760408:1.000000

WISDOT/CADDS SHEET 42

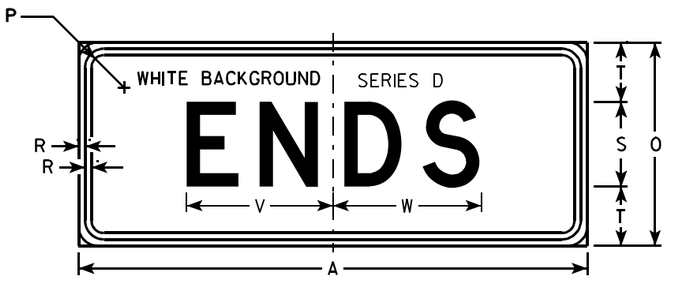
R3-17

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - AS SHOWN
   Message - BLACK
3. Message Series - C or as noted on the Signs.
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R3-17ap



R3-17bp

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	R3-17 Area sq. ft.	R3-17ap Area sq. ft.	R3-17bp Area sq. ft.
1																													
2S	30	24	1 1/8	3/8	1/2	2	4	4 1/8	7 7/8	6 3/8	9 1/2	2 5/8	7/8	13	12	1 1/8	3 3/8	3/8	5	3 1/2	11 3/8	8 5/8	8 3/4	2 3/8	15 5/8	8	5.0	2.5	2.5
2M	30	24	1 1/8	3/8	1/2	2	4	4 1/8	7 7/8	6 3/8	9 1/2	2 5/8	7/8	13	12	1 1/8	3 3/8	3/8	5	3 1/2	11 3/8	8 5/8	8 3/4	2 3/8	15 5/8	8	5.0	2.5	2.5
3																													
4																													
5																													

STANDARD SIGN
R3-17 & R3-17a&bp

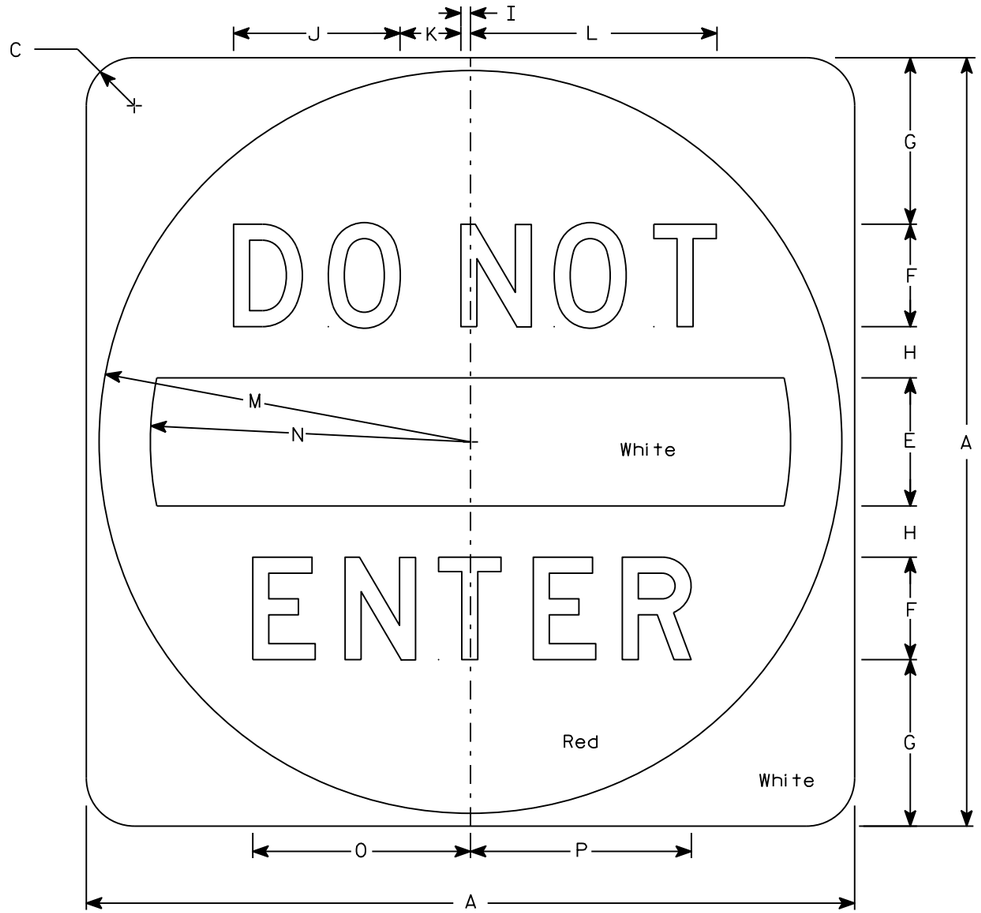
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/12/2011 PLATE NO. R3-17.2

PROJECT NO:

SHEET NO: 440 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

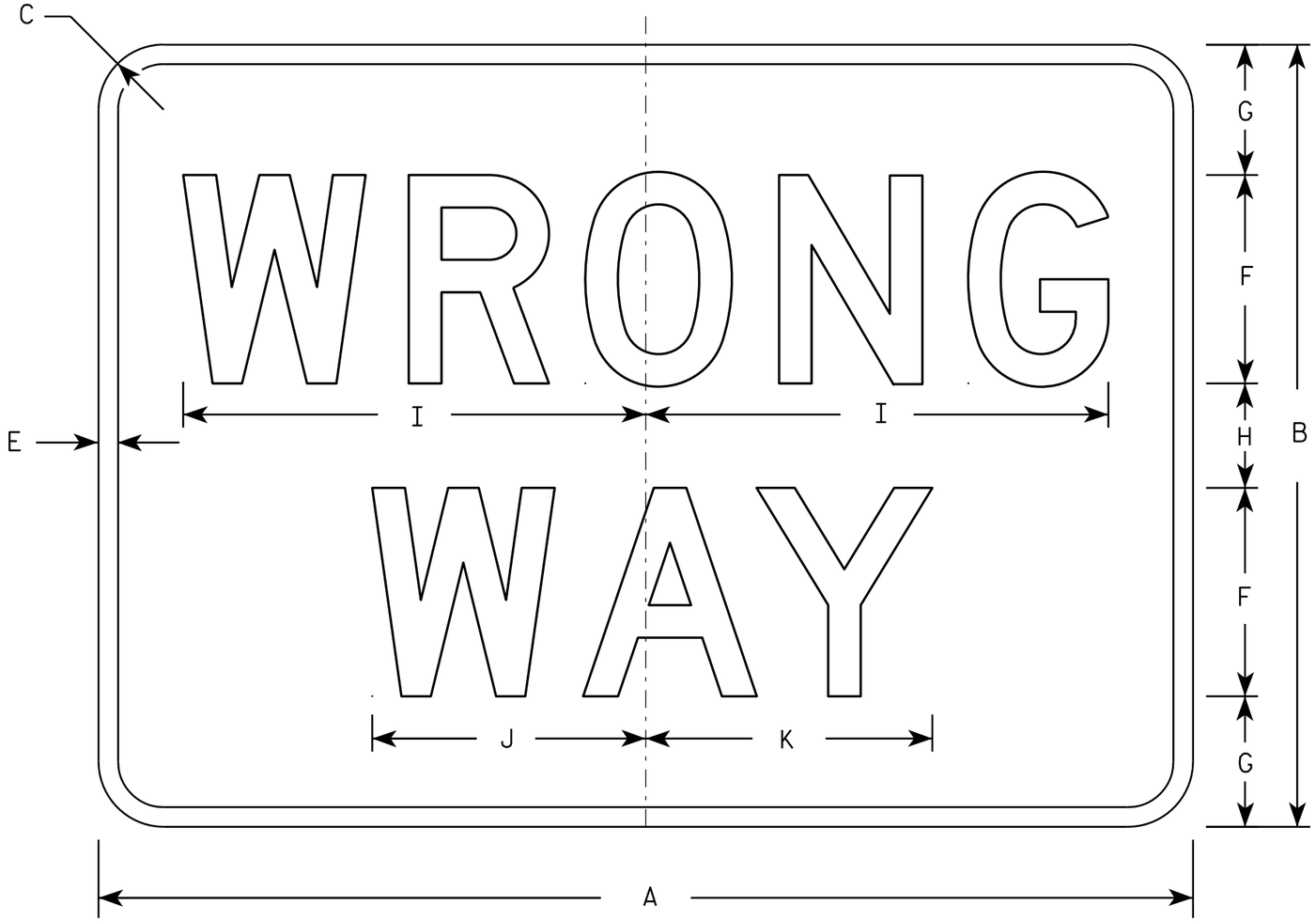
STANDARD SIGN
R5-1

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: 441 | E



R5-1A

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 - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	18	1 1/2		1/2	5	3	2	11	6 1/2	6 7/8																3.75
2S	36	24	2		5/8	6	4 1/2	3	13 1/4	7 7/8	8 1/4																6.00
2M	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
3	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
4	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
5	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75

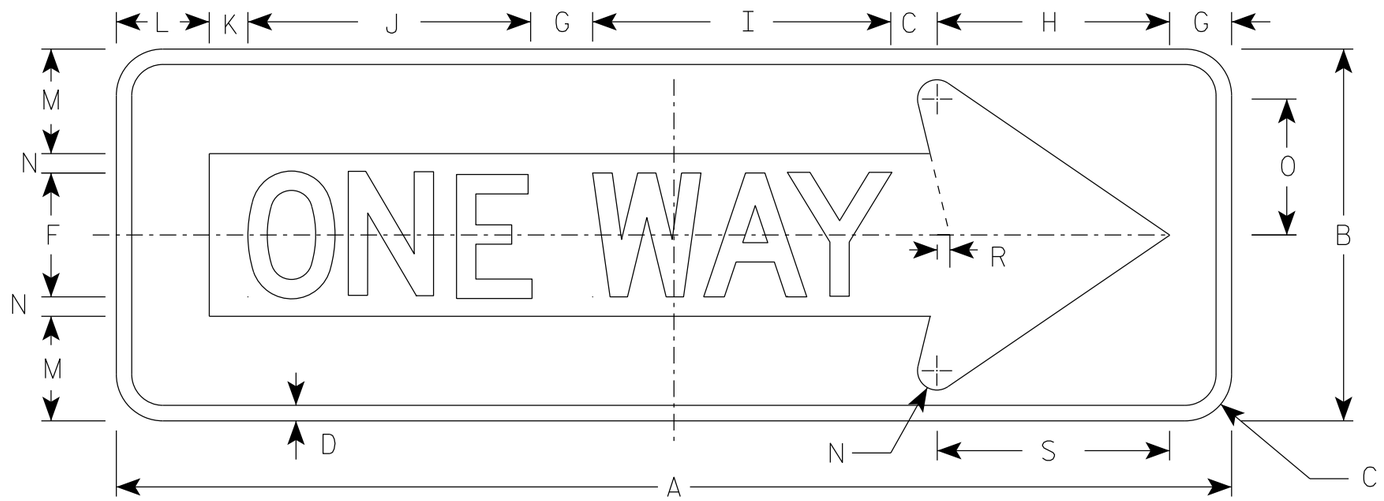
STANDARD SIGN
R5-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1A.2

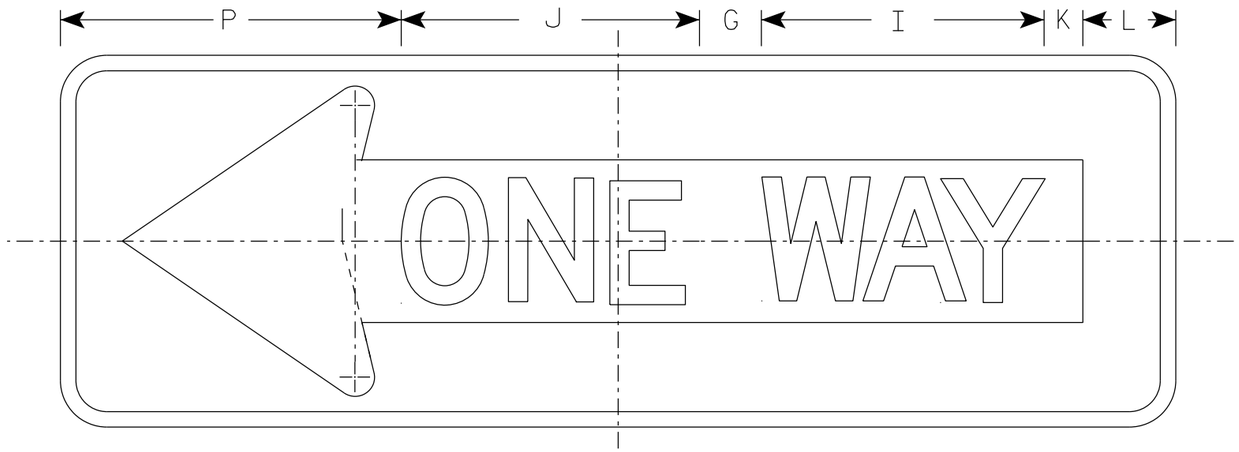
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 442 | E



R6-1R

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - BLACK
   Message - BLACK LEGEND & WHITE ARROW & BORDER
3. Message Series - D



R6-1L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36	12	1 1/2	1/2		4	2	7 1/2	9 5/8	9 1/8	1 1/4	3	3 3/8	5/8	4 3/8	11		3/8	7 1/2								3.0
2M	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
3	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
4	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
5																											

STANDARD SIGN
R6-1 L & R

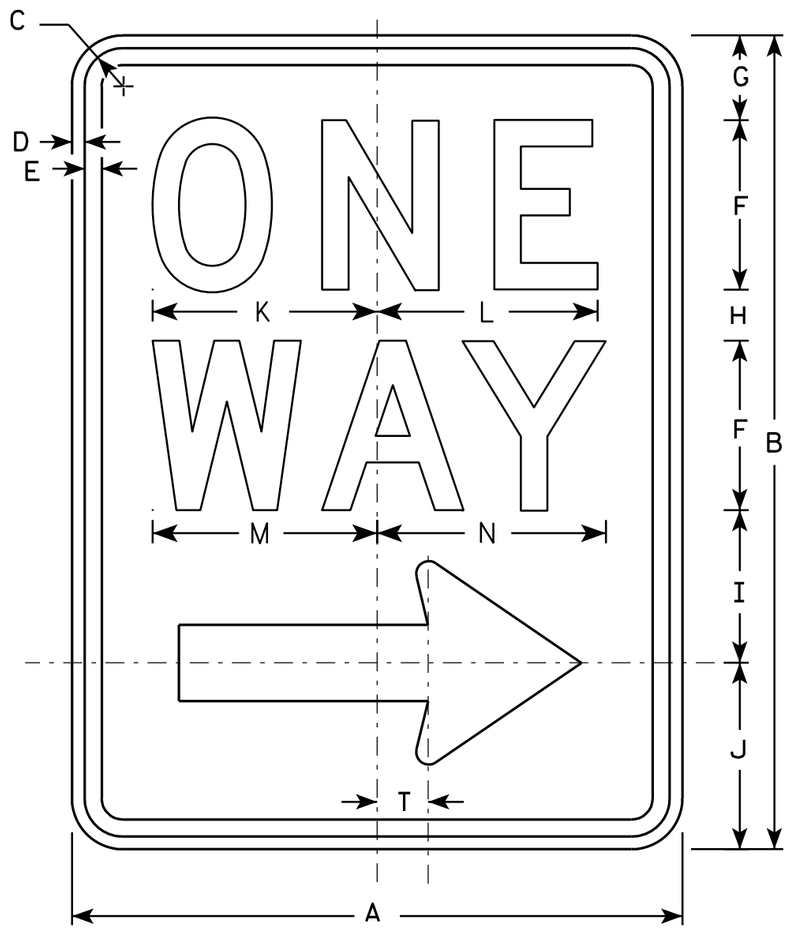
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 07/11/18 PLATE NO. R6-1.3

PROJECT NO:

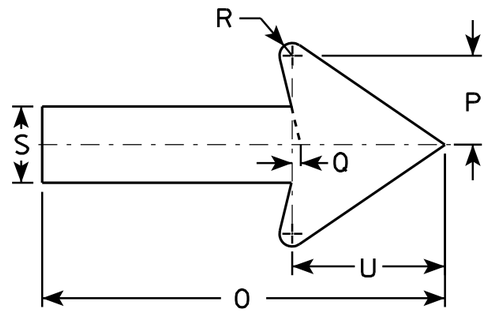
SHEET NO: 443 E



R6-2R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R6-2L same as R6-2R except arrow points to the left.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

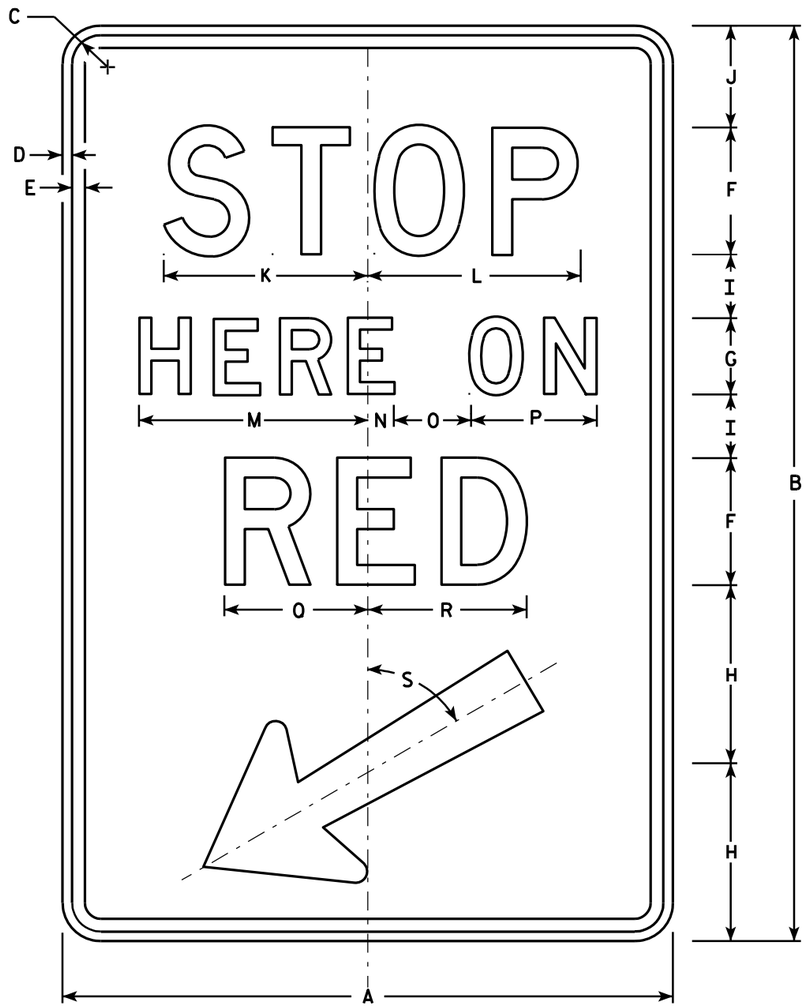
STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

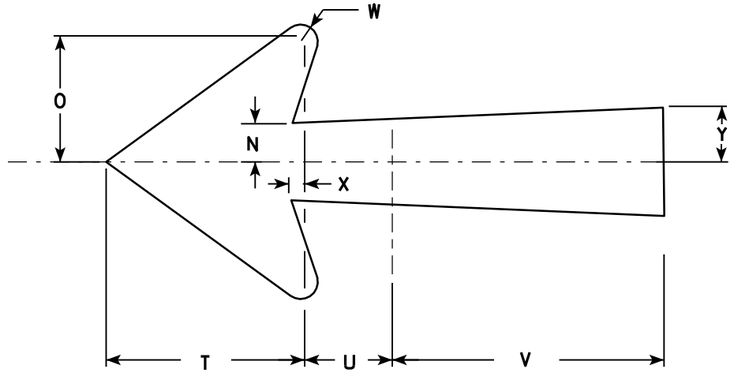
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 444	E



R10-6

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/8	3/8	1/2	5	3	7	2 1/2	4	8	8 3/8	9	1	3	5	5 5/8	6 1/4	60°	5 1/4	2 1/4	7 1/8	1/2	3/8	1 3/8		6.0
2M	24	36	1 1/8	3/8	1/2	5	3	7	2 1/2	4	8	8 3/8	9	1	3	5	5 5/8	6 1/4	60°	5 1/4	2 1/4	7 1/8	1/2	3/8	1 3/8		6.0
3																											
4																											
5																											

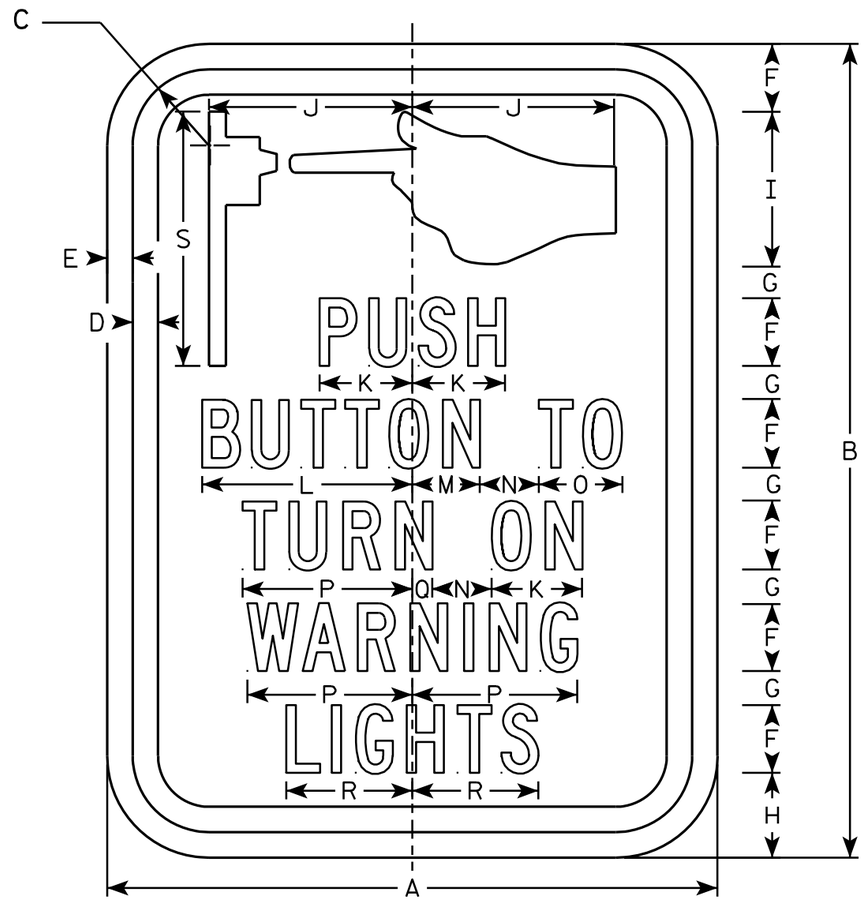
STANDARD SIGN
R10-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/5/11 PLATE NO. R10-6.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 445	E



R10-25

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. Size (1) comes as a decal only.

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	6	9	1 1/8	3/8	3/8	3/4	3/8	1	1 3/4	2	7/8	2 1/8	5/8	5/8	7/8	1 5/8	1/4	1 1/4	2 7/8								.38
2S	9	12	1 1/8	3/8	3/8	1	1/2	1 1/4	2 1/4	3	1 3/8	3 1/8	1	7/8	1 1/4	2 1/2	1/4	1 7/8	3 3/4								.75
2M	9	12	1 1/8	3/8	3/8	1	1/2	1 1/4	2 1/4	3	1 3/8	3 1/8	1	7/8	1 1/4	2 1/2	1/4	1 7/8	3 3/4								.75
3																											
4																											
5																											

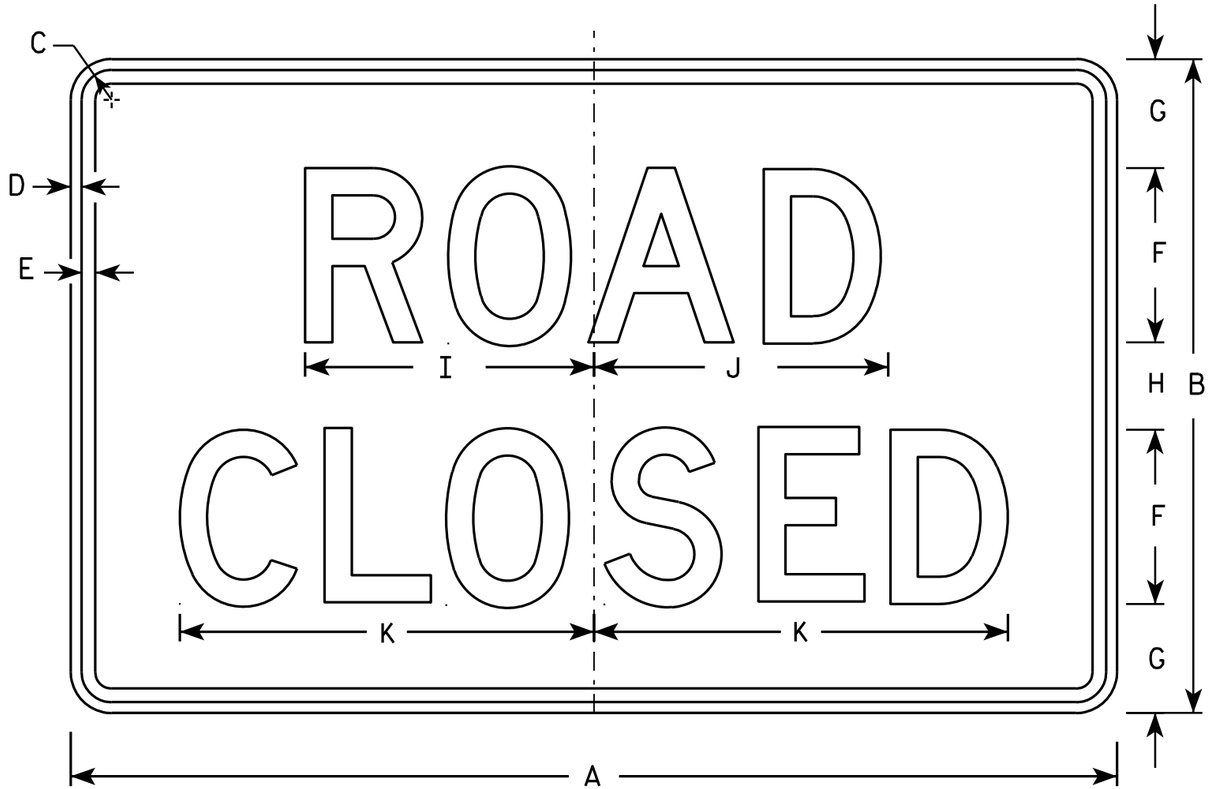
STANDARD SIGN
R10-25

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/8/10 PLATE NO. R10-25.1

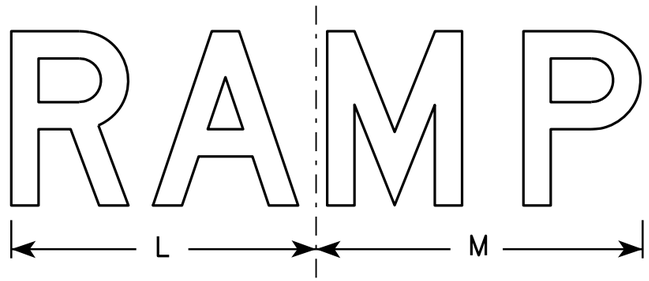
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 446	E



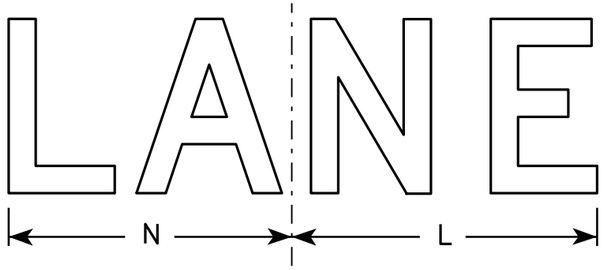
R11-2

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 - 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



R11-2L

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													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													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													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													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													10.0

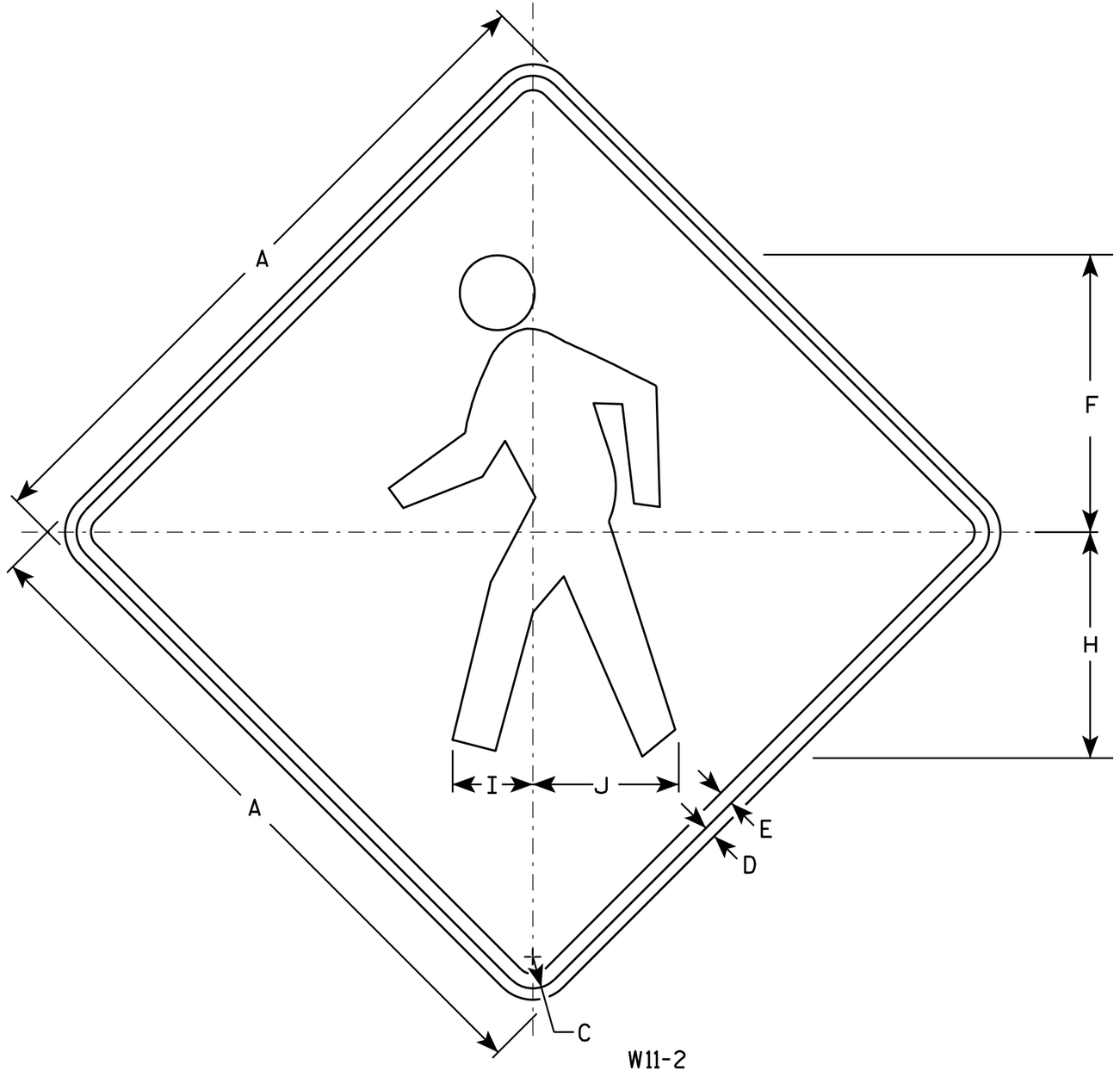
STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 447	E



W11-2

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	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																											

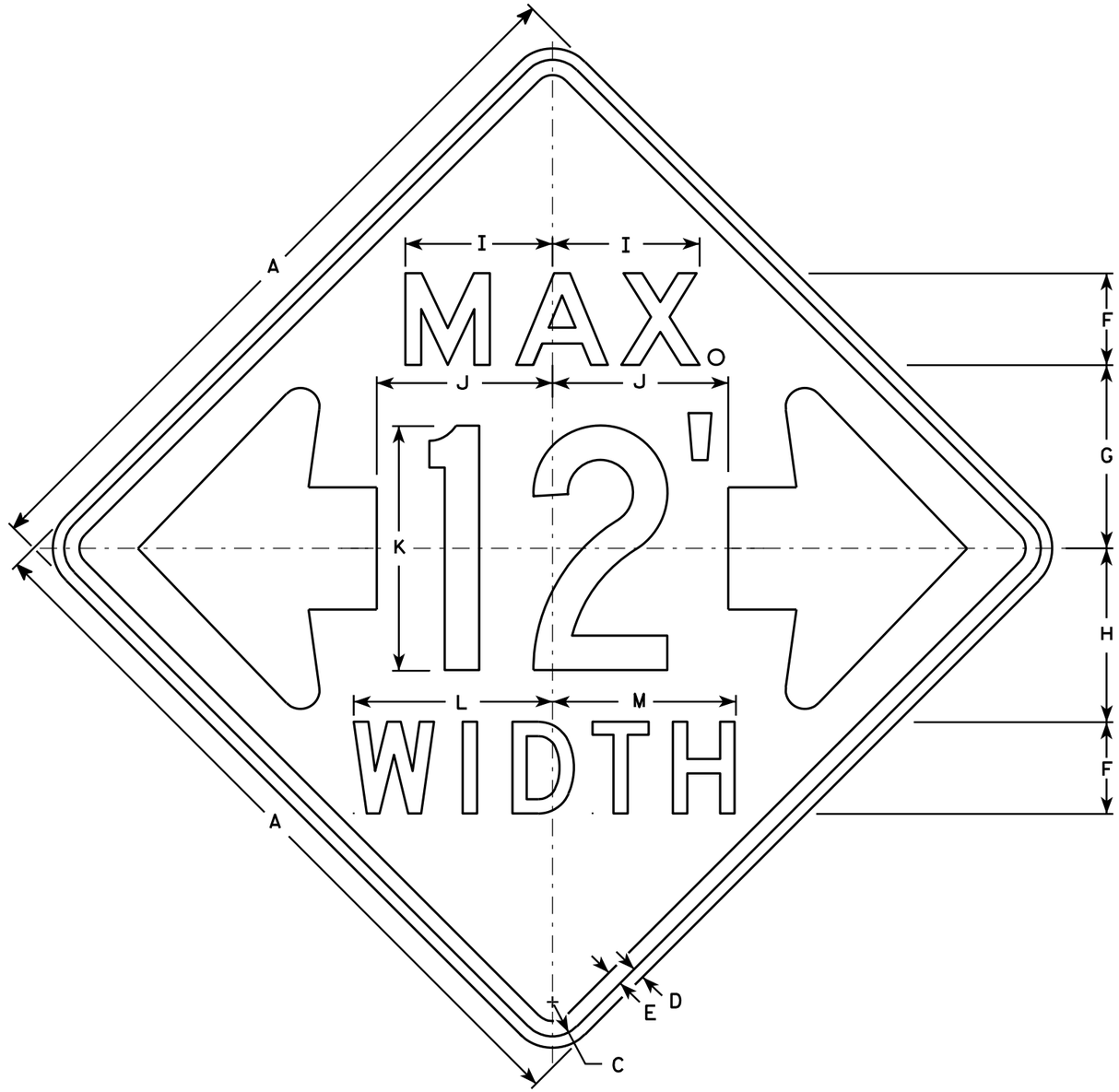
STANDARD SIGN
W11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W11-2.7

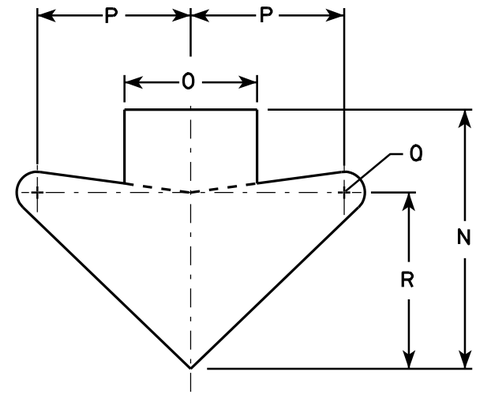
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 448	E



W12-52

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. The top line is series E, the numerals are series C, and the bottom line is series D.
6. Substitute appropriate numerals and adjust spacing as required.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48		2 1/4	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
2M	48		2 1/4	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
3																											
4																											
5																											

STANDARD SIGN
W12-52

WISCONSIN DEPT OF TRANSPORTATION

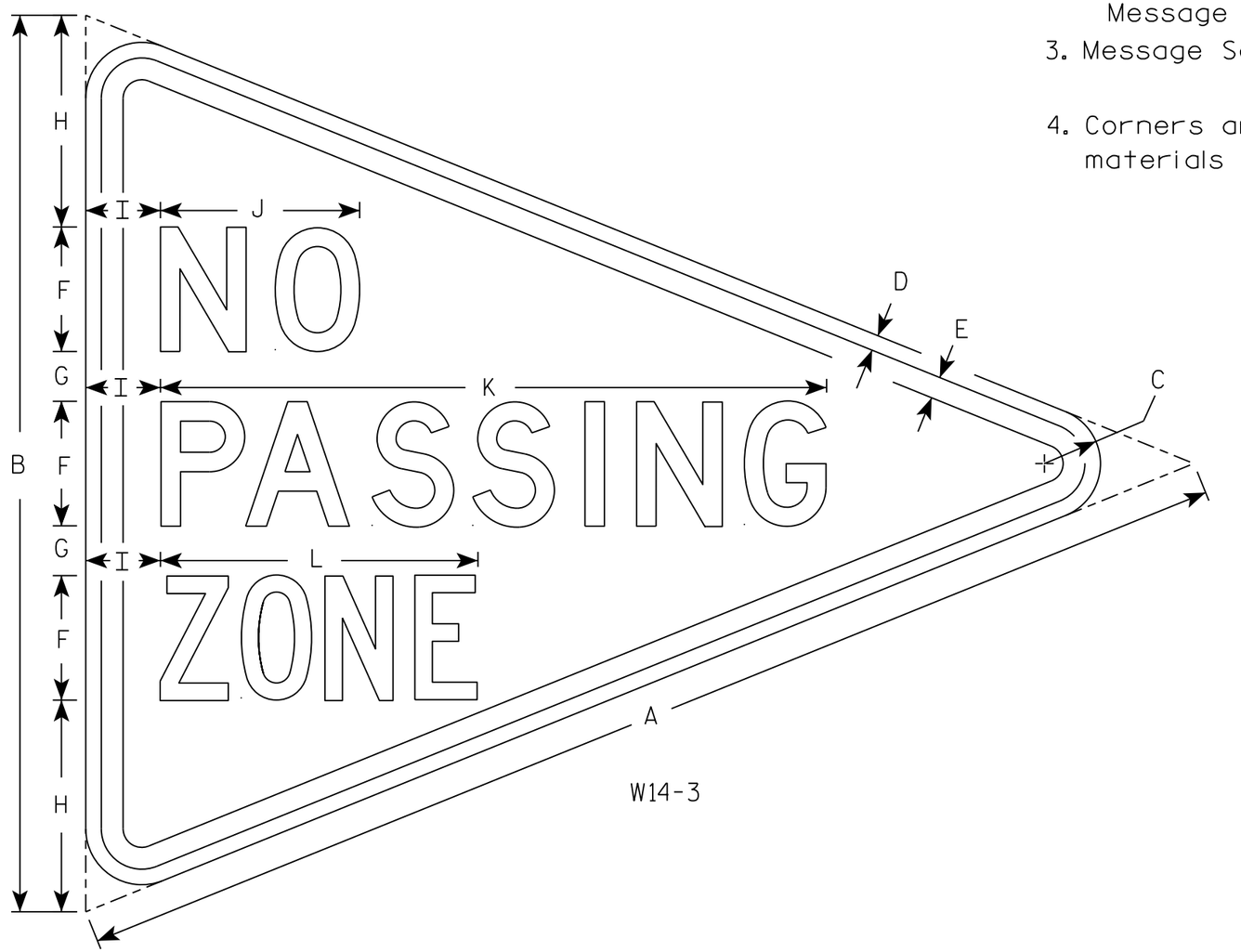
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/11 PLATE NO. W12-52.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 449	E

NOTES

1. Sign is Type II- Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - Lines 1 and 2 are Series D.
   Line 3 is series C.
4. Corners and borders shall be rounded on all base materials for this sign.



W14-3

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															5.56
2M																											
3																											
4																											
5																											

STANDARD SIGN
W14-3

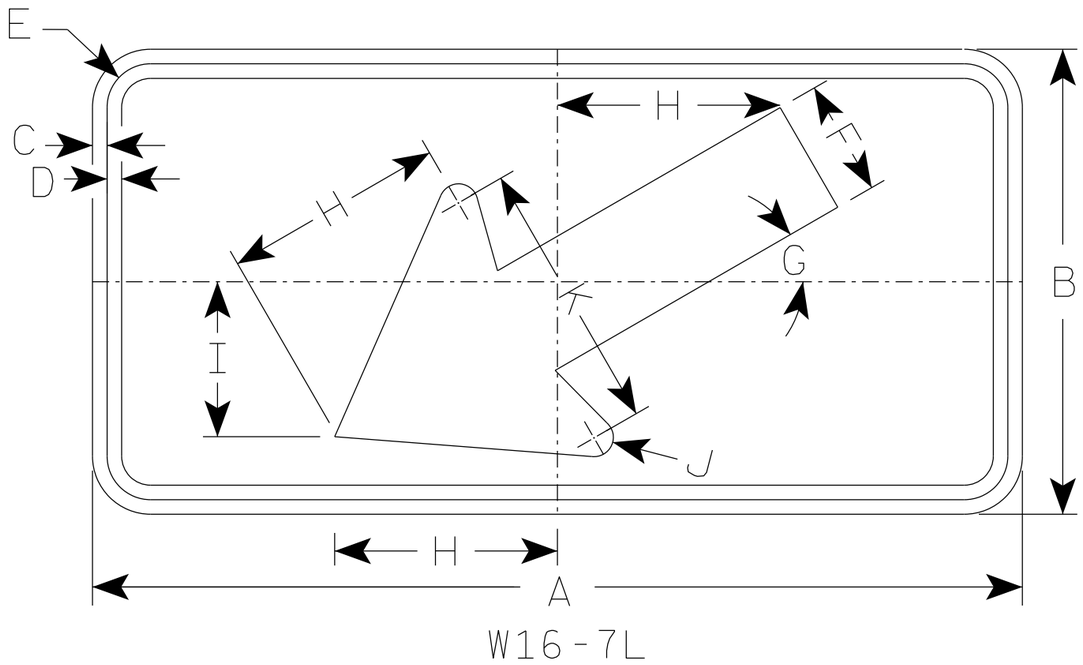
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/17 PLATE NO. W14-3.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 450 | E

7



W16-7L

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. W16-7R is the same as W16-L
   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																											
2S	24	12	3/8	3/8	1 1/8	3	30°	5 3/4	4	1/2	7																2.0
2M	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
3	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
4	48	24	1/2	5/8	1 3/8	6	30°	11 1/2	8	1	14																8.0
5																											

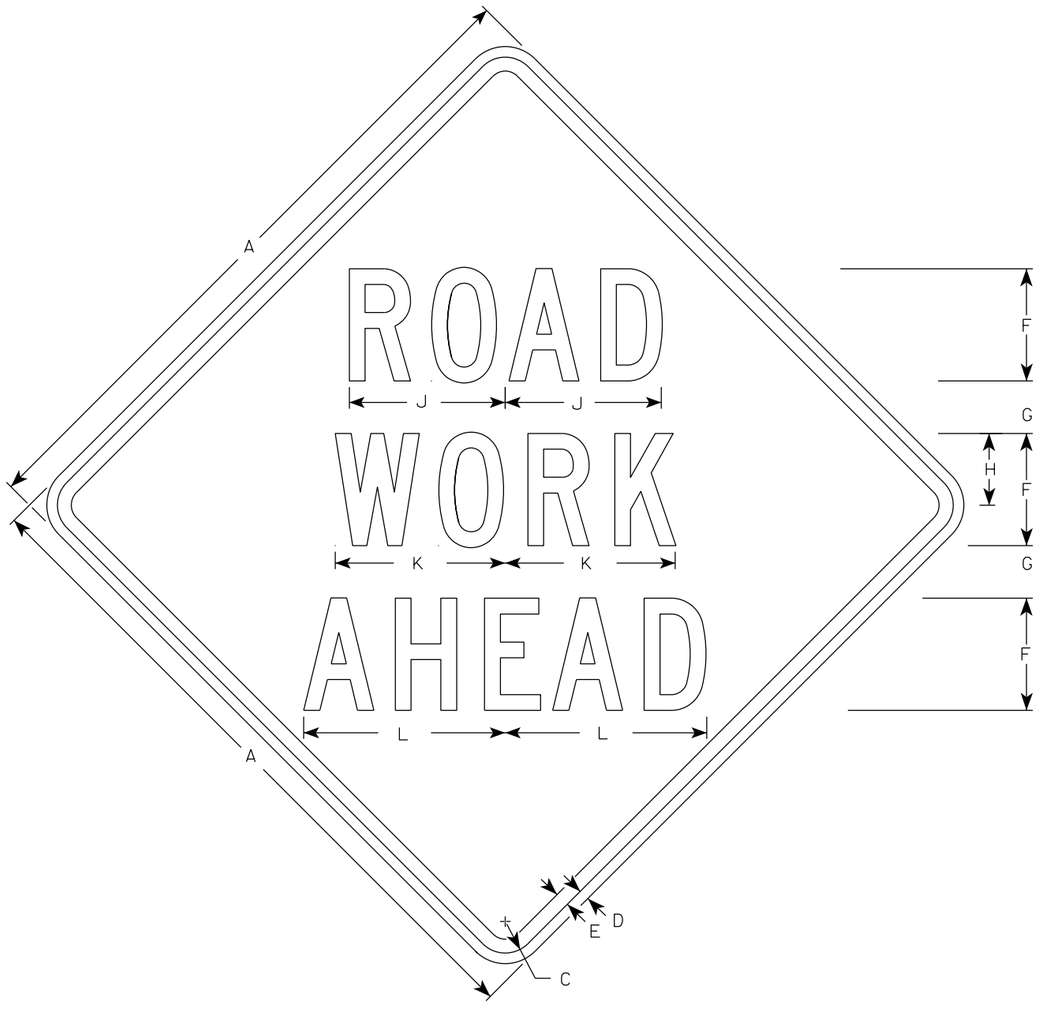
STANDARD SIGN
W16-7

WISCONSIN DEPT OF TRANSPORTATION

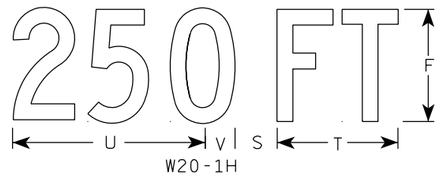
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 7/11/18 PLATE NO. W16-7.6

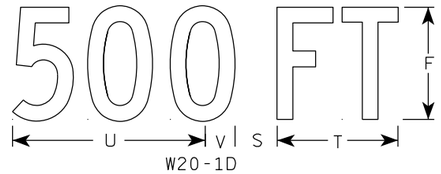
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 451 | E



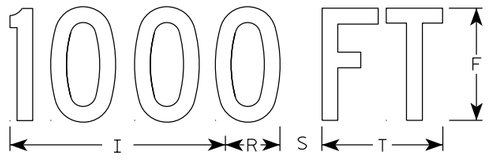
W20-1A



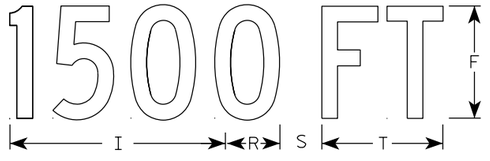
W20-1H



W20-1D



W20-1C

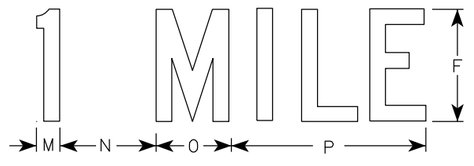


W20-1B

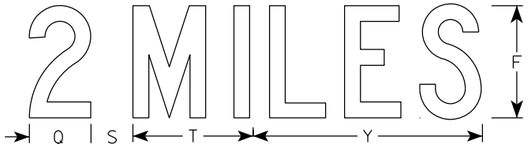
NOTES

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 3/8	1/2	5/8	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		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, F & G

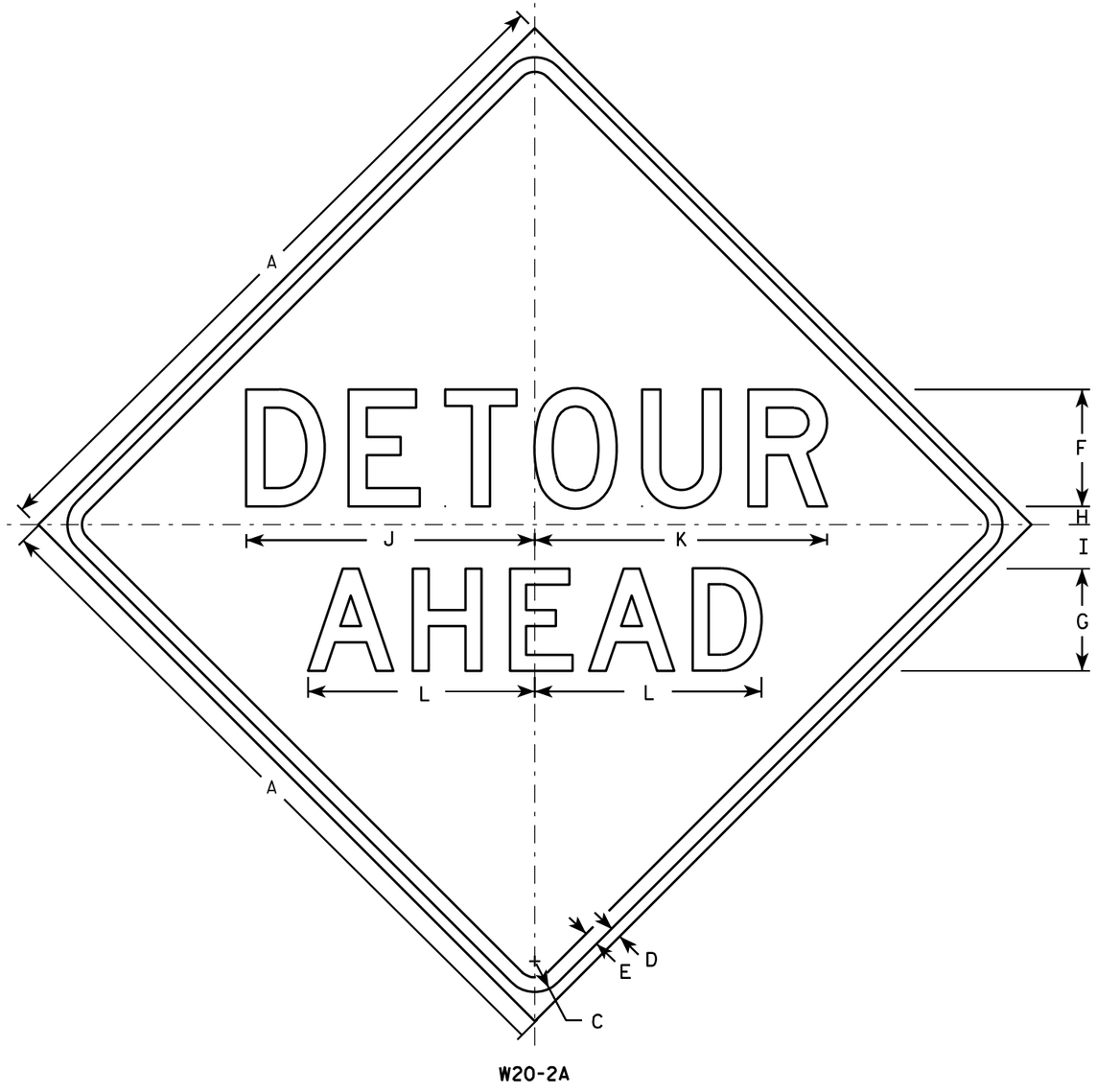
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

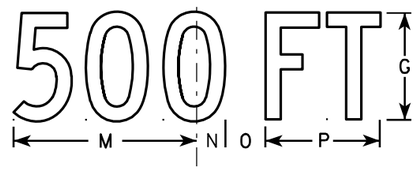
DATE 9/25/19 PLATE NO. W20-1.11

PROJECT NO:

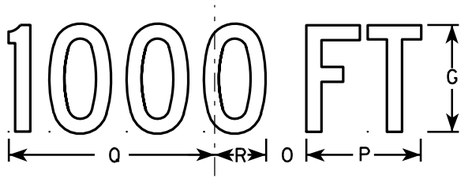
SHEET NO: 452 E



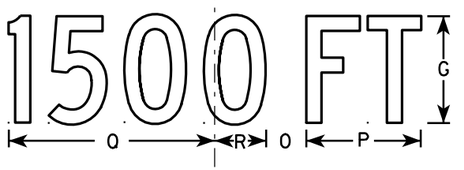
W20-2A



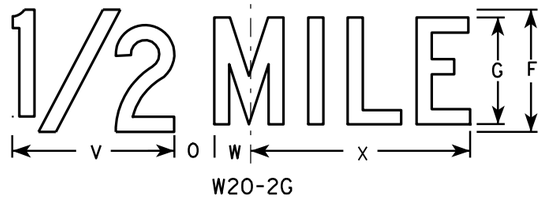
W20-2D



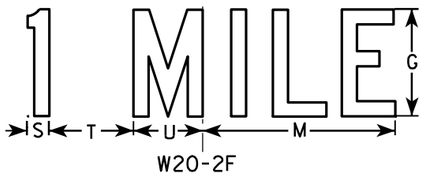
W20-2C



W20-2B



W20-2G



W20-2F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series D.
   Line 2 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	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

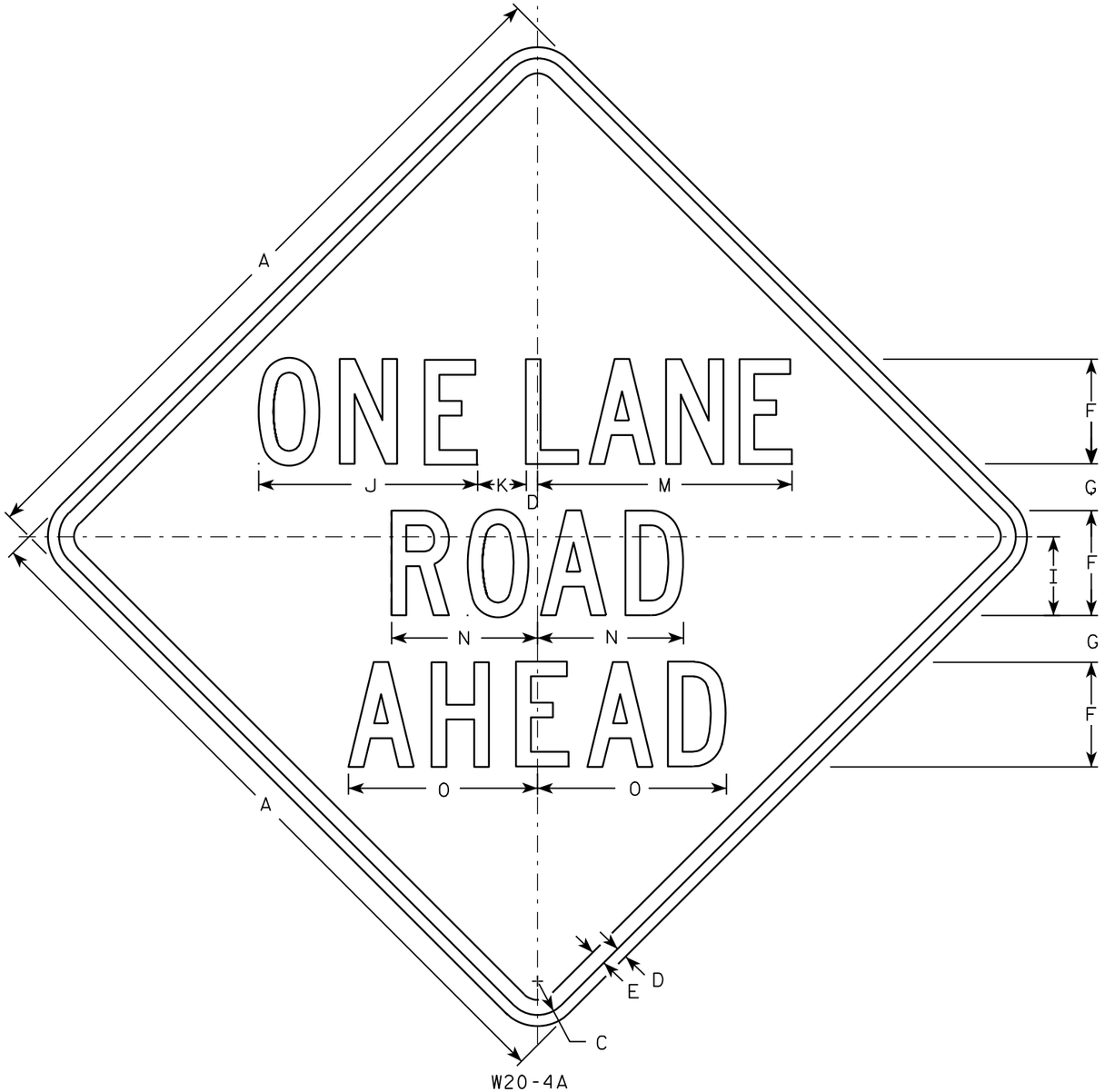
STANDARD SIGN
W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

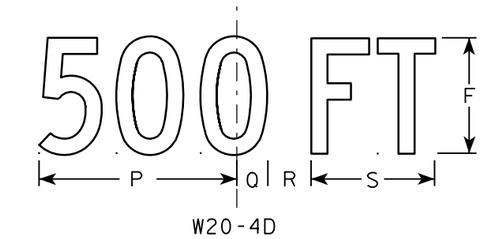
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-2.6

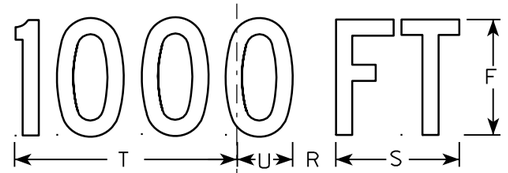
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 453	E



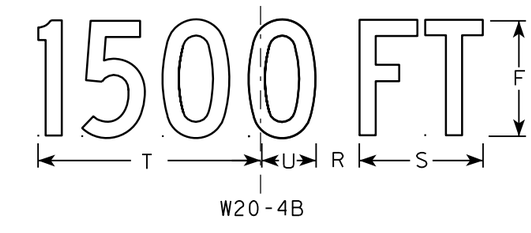
W20-4A



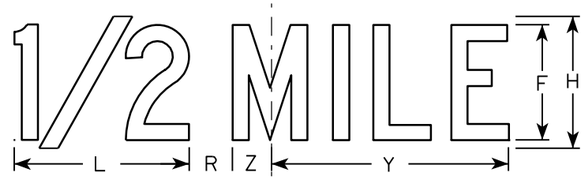
W20-4D



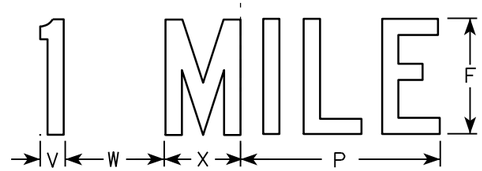
W20-4C



W20-4B



W20-4G



W20-4F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	2 3/8	6	3 3/4	10 3/8	2 3/8	8	13 1/2	7	8 7/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-4A, B, C, D, F & G

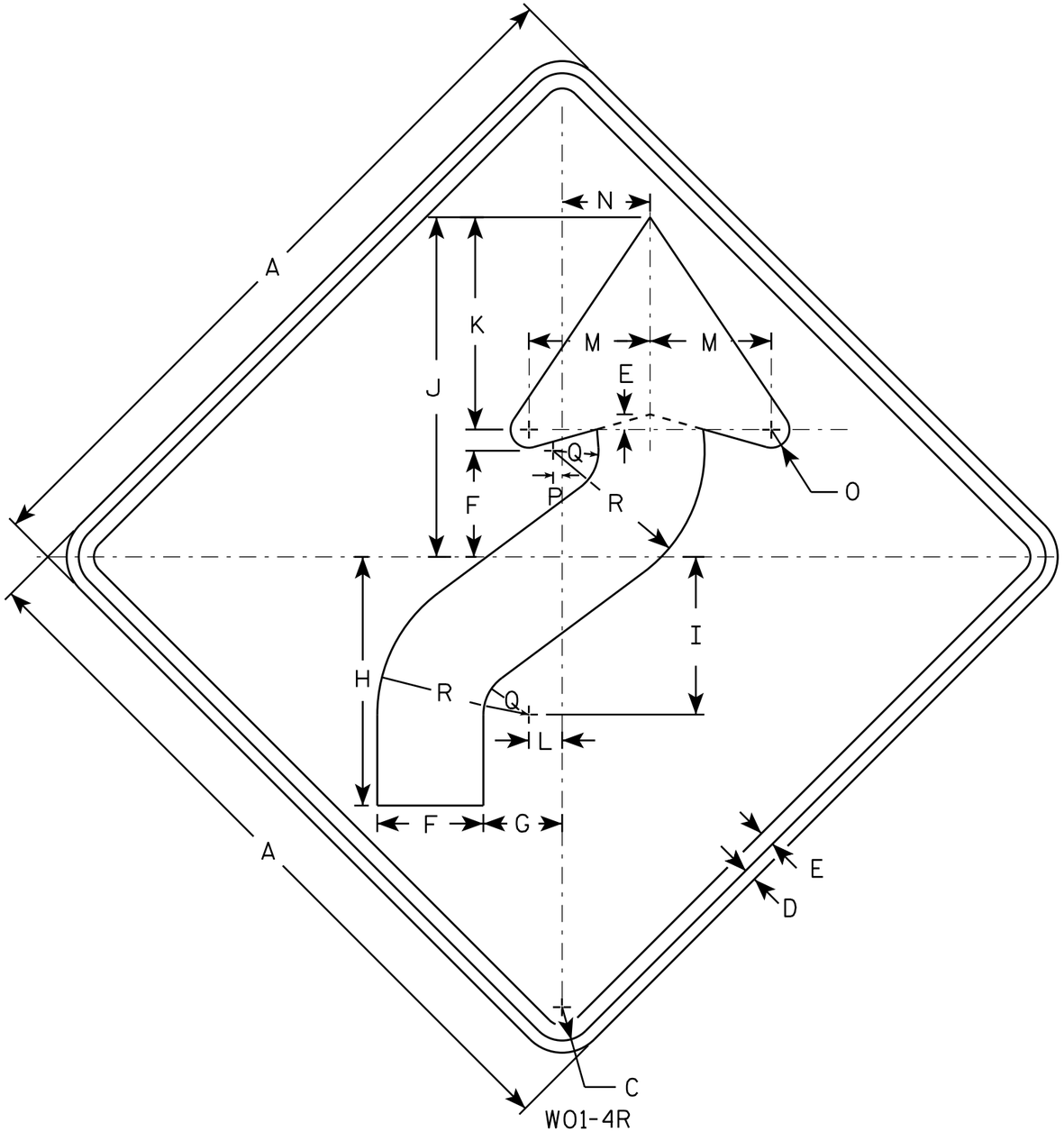
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-4.9

PROJECT NO:

SHEET NO: 454 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

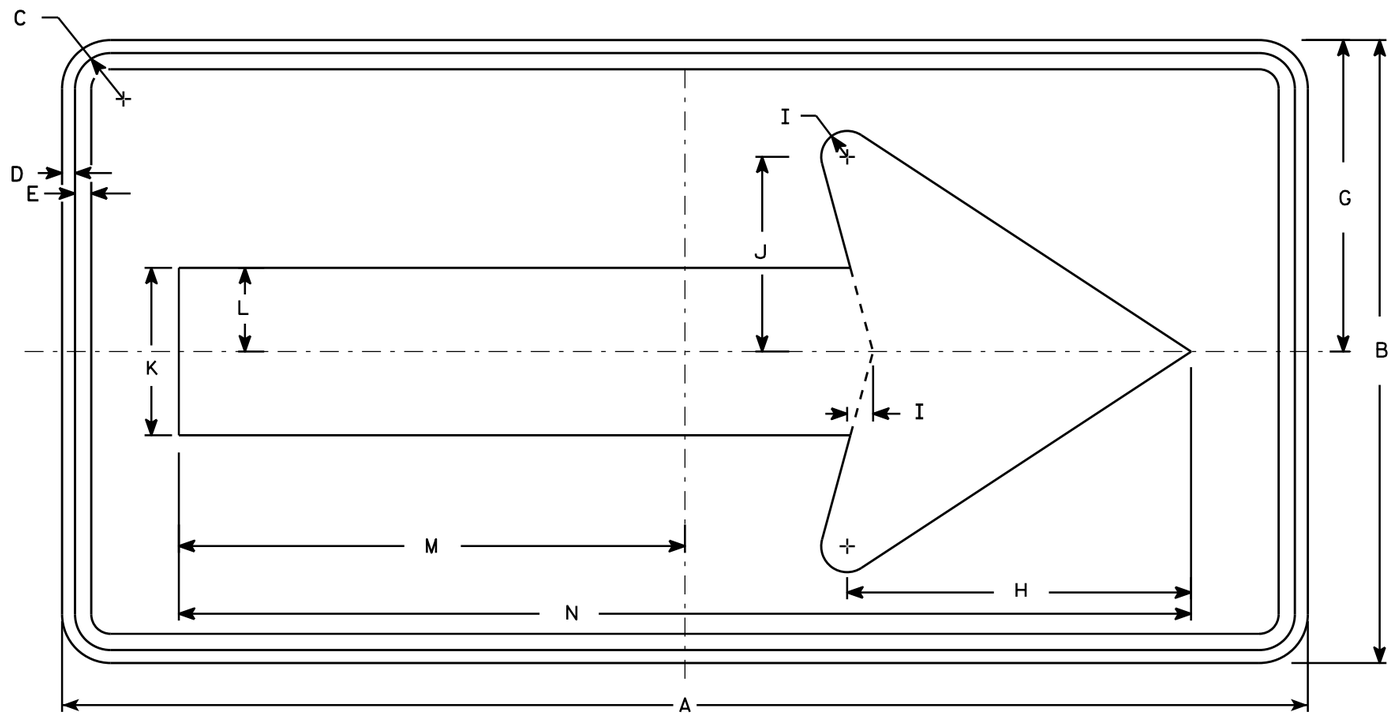
WISCONSIN DEPT OF TRANSPORTATION

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

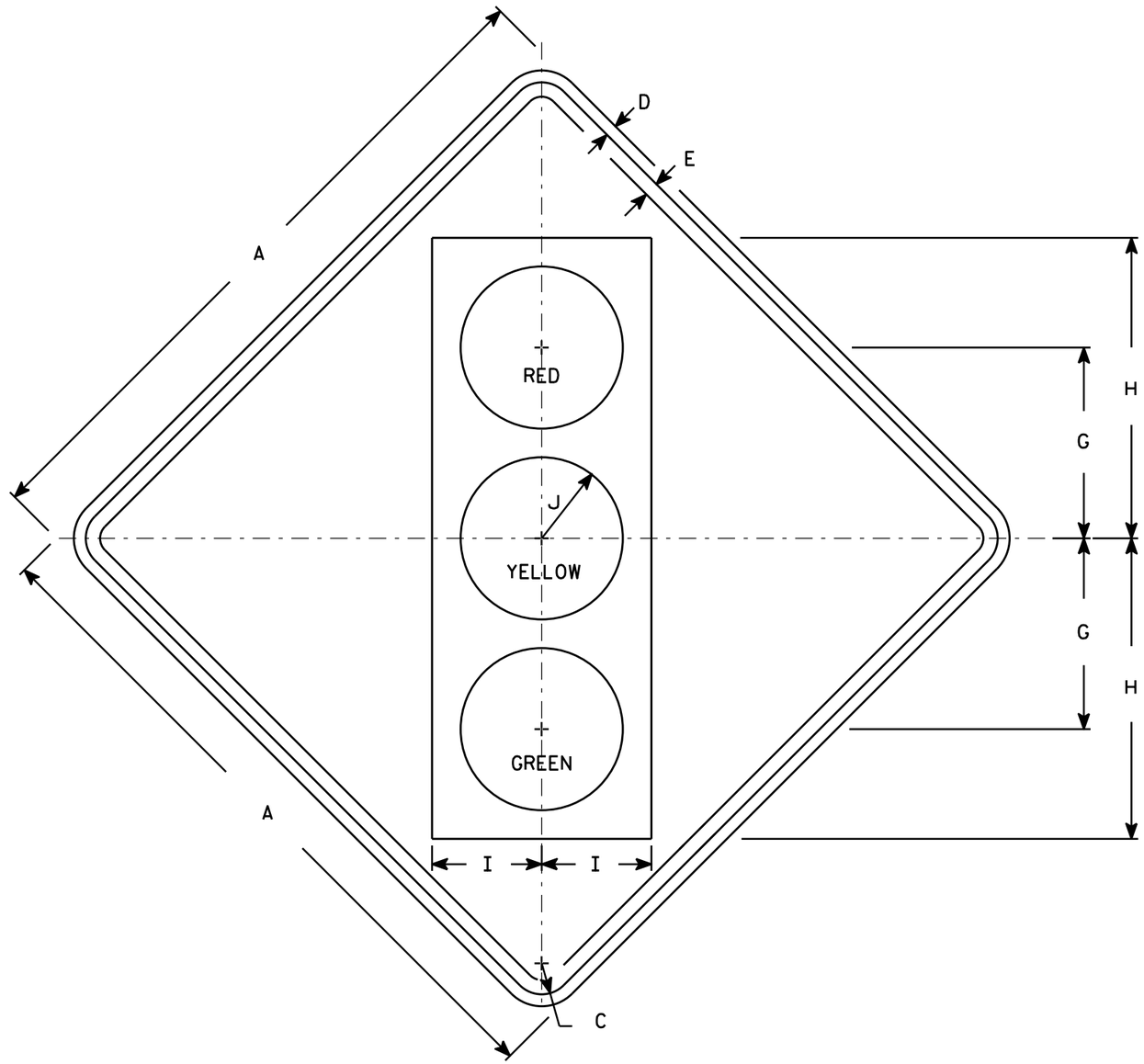
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE 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



W03-3

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 - 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. Symbol and border are non-reflective black.
   Top circle - Type H Reflectorized Red
   Center circle - Same as background
   Bottom circle - Type H Reflectorized Green

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		10	15 3/4	5 3/4	4 1/4																	9.0
2S	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
2M	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
3	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
4	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
5	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0

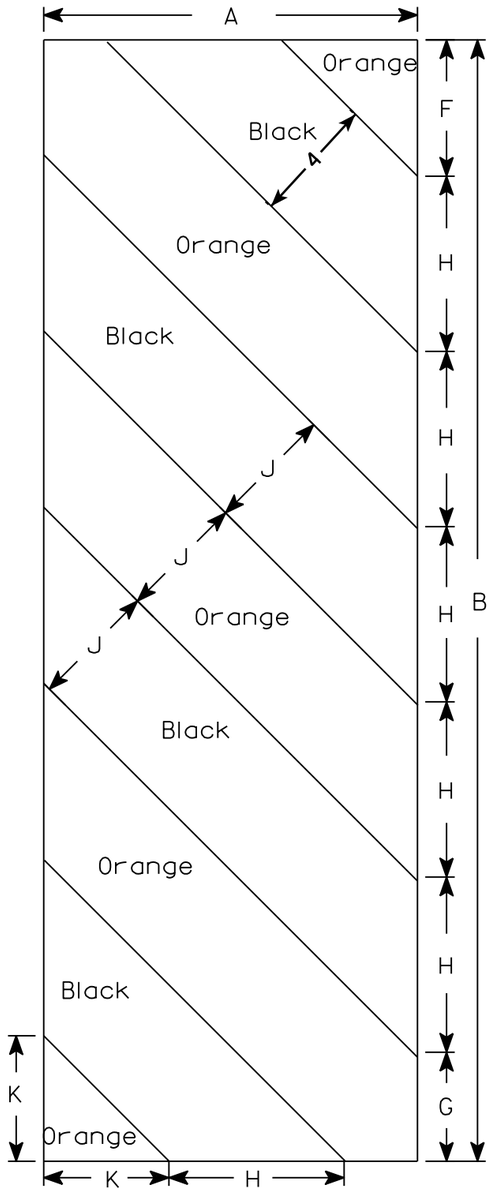
STANDARD SIGN
W03-3

WISCONSIN DEPT OF TRANSPORTATION

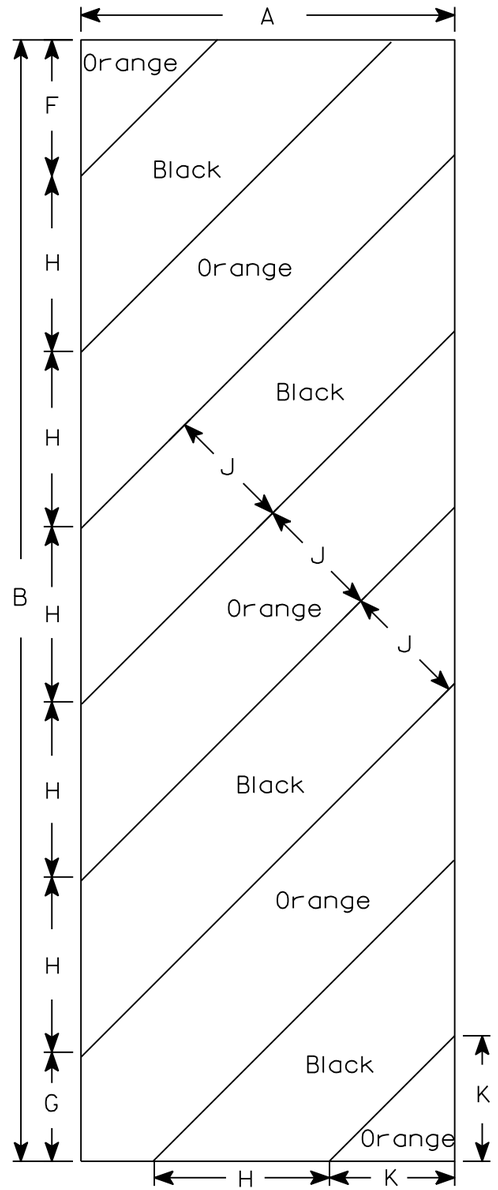
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 457 W03-3.1

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



W05-52L



W05-52R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - 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. Alternate colors of stripes as shown.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
2M	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
3	18	54				6	5 1/2	8 1/2	45°	6	6 9/16																6.75
4																											
5																											

STANDARD SIGN

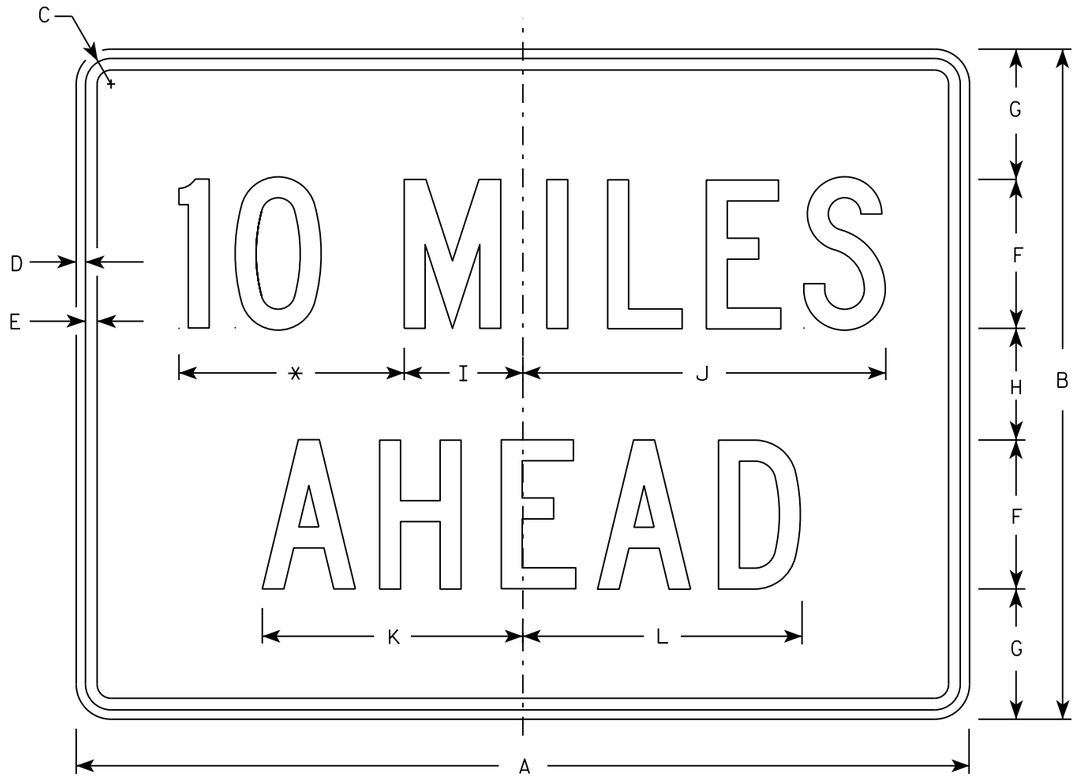
W05-52L & W05-52R

WISCONSIN DEPT OF TRANSPORTATION

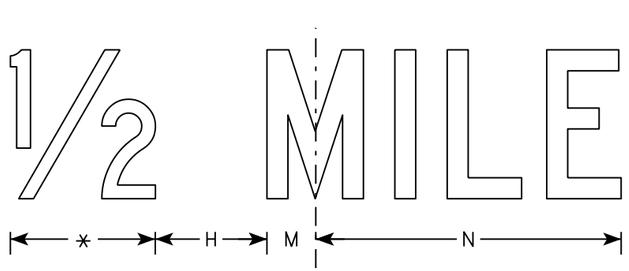
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE No. W05-52.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



W057-52



NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals to the nearest quarter mile and optically adjust spacing to achieve proper balance.

* See note 5

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	24	1 1/8	3/8	1/2	6	4 1/2	3	4 3/4	14 5/8	10 5/8	11 3/8	2	12													6.0
2S	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
2M	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
3	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
4	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
5	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0

STANDARD SIGN
W057-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

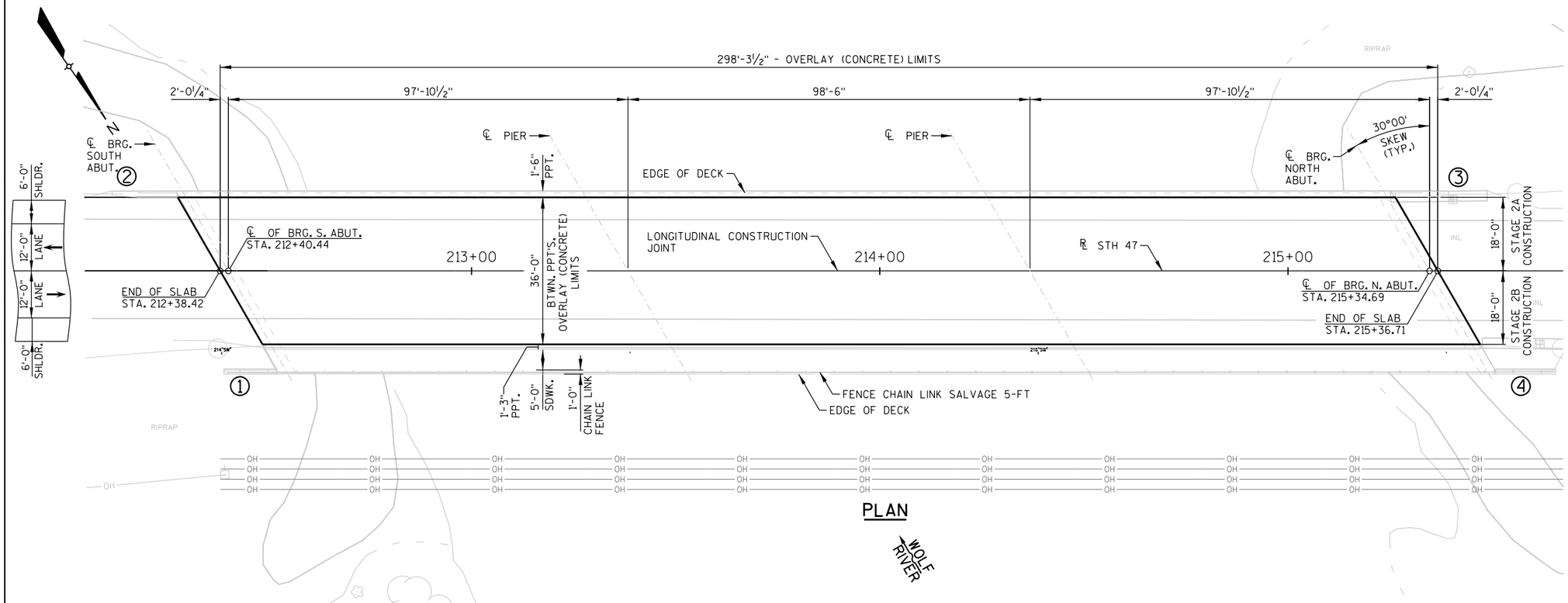
DATE 3/21/17 PLATE NO. W057-52.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 459	E

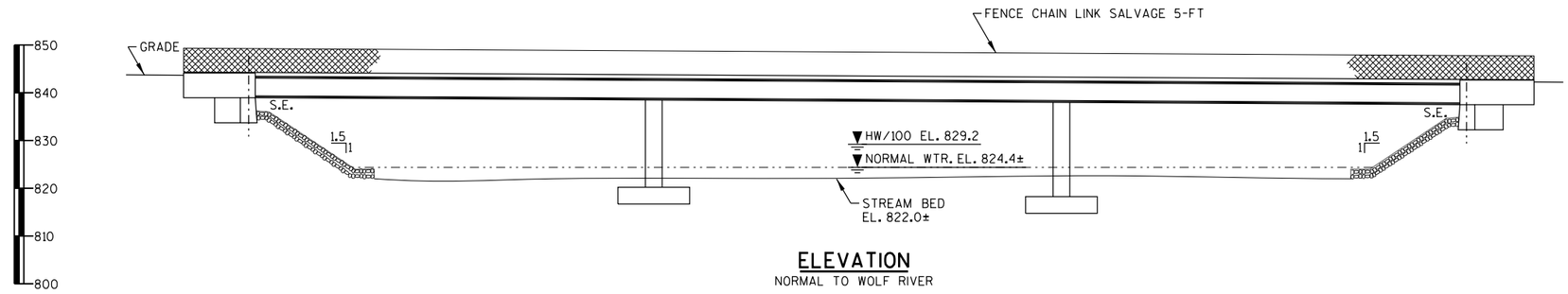
STATE PROJECT NUMBER

9650-17-61

X INDICATES WING NUMBER



PLAN



ELEVATION
NORMAL TO WOLF RIVER

DESIGN DATA

LIVE LOAD:
INVENTORY RATING: HS 16
OPERATING RATING: HS 27

WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 210 KIPS

MATERIAL PROPERTIES:
CONCRETE MASONRY
SUPERSTRUCTURE —— f'c = 4,000 PSI
ALL OTHER —— f'c = 3,500 PSI

TRAFFIC VOLUME

STH 47
A.D.T. (2019) = 6,660
A.D.T. (2039) = 7,860
DESIGN SPEED = 60 MPH

WISCONSIN PROFESSIONAL ENGINEER
ELIZABETH A. NEMEC
E-43409-6
STEVENS POINT, WI
11/27/19

LIST OF DRAWINGS

1. GENERAL PLAN
2. CROSS SECTION & QUANTITIES

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
BILL DREHER (608) 266-8489

CONSULTANT:
BETH NEMEC (715) 342-3069

AECOM PROJECT No. 60285986

NO.	DATE	REVISION	BY

AECOM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED SDR 05/05/20
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-73-4

STH 47 OVER WOLF RIVER

COUNTY	TOWN ~~CITY/VILLAGE~~
MENOMINEE	MENOMINEE

DESIGN SPEC.
REHABILITATION N/A

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
KB	EAN	KAM	EAN

GENERAL PLAN

SHEET 1 OF 2
460

8

8

BATCH PRINT SHEET 1 OF 2

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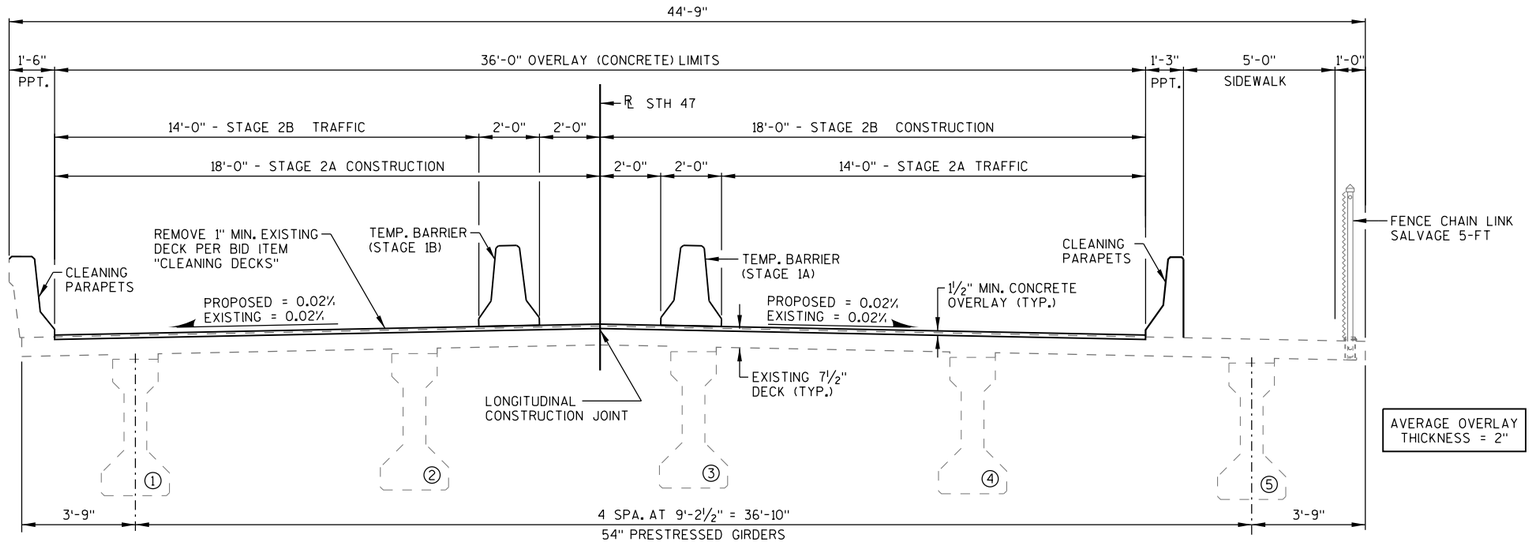
BATCH PRINT SHEET 2 OF 2

STATE PROJECT NUMBER

9650-17-61

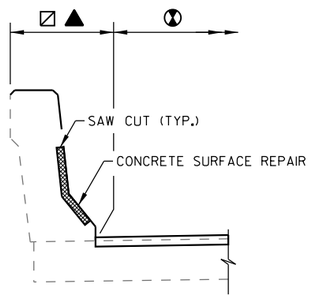


CROSS SECTION THRU ROADWAY

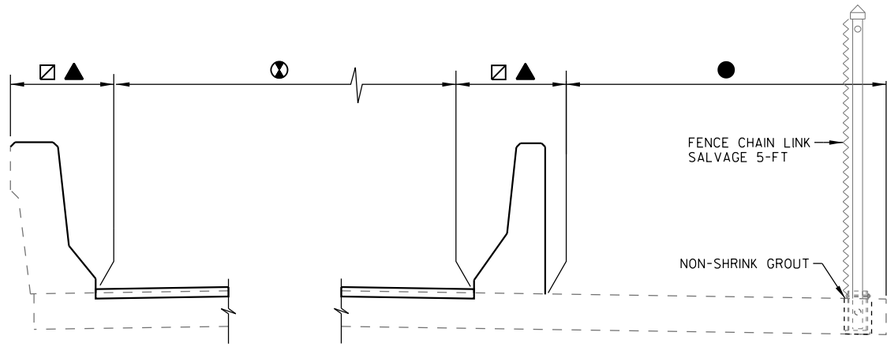
(LOOKING UPSTATION)

LEGEND

- ☆ CONCRETE SURFACE REPAIR REQUIRED AT BOTTOM OF DECK OVERHANG, SUBSTRUCTURE AND PARAPET. LOCATIONS TO BE VERIFIED IN THE FIELD BY THE ENGINEER.
- ⊘ "CLEANING PARAPETS" LIMITS
- ▲ "PIGMENTED SURFACE SEALER" LIMITS
- ⊗ "PROTECTIVE SURFACE TREATMENT" LIMITS
- ● "PROTECTIVE SURFACE TREATMENT RESEAL" LIMITS



PARAPET REPAIR DETAIL



SURFACE PROTECTION DETAIL

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

EXISTING DIMENSIONS SHOWN ARE BASED ON ORIGINAL STRUCTURE PLANS. ACTUAL DIMENSIONS MAY VARY. ORIGINAL DRAWINGS CAN BE FOUND ON WISDOT HSI WEBSITE.

"PROTECTIVE SURFACE TREATMENT" SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE NEW CONCRETE OVERLAY.

AFTER CLEANING PARAPETS, "PIGMENTED SURFACE SEALER" SHALL BE APPLIED TO THE INSIDE AND TOPS OF PARAPETS TO THE SATISFACTION OF THE ENGINEER.

SEAL OVERLAY CONSTRUCTION JOINTS ACCORDING TO SECTION 502.3.13.1 OF THE STANDARD SPECIFICATIONS UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER. COST INCIDENTAL TO BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

PREPARATION DECKS TYPE 1, PREPARATION DECKS TYPE 2 AND FULL DEPTH DECK REPAIR AREAS SHALL BE COMPLETED AS DETERMINED BY THE FIELD ENGINEER. DECK PREPARATION AND FULL DEPTH REPAIR AREAS SHALL BE FILLED WITH "CONCRETE MASONRY OVERLAY DECKS".

A MINIMUM OF 1" OF CONCRETE SHALL BE REMOVED FROM THE BRIDGE DECK BETWEEN PARAPETS (AS SHOWN) UNDER THE BID ITEM "CLEANING DECKS".

TRAFFIC TO BE MAINTAINED DURING CONSTRUCTION.

THE AVERAGE OVERLAY THICKNESS IS BASED ON THE MINIMUM OVERLAY THICKNESS PLUS ½-INCH TO ACCOUNT FOR VARIATIONS IN THE DECK SURFACE.

ALL CONCRETE REMOVAL NOT COVERED BY THE CONCRETE OVERLAY SHALL BE DEFINED BY A 1-INCH DEEP SAW CUT OR AS APPROVED BY ENGINEER.

ANY EXCAVATION REQUIRED TO COMPLETE THE OVERLAY AT THE ABUTMENTS IS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON MINIMUM OVERLAY THICKNESS OF 1½" PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION. EXPECTED AVERAGE OVERLAY THICKNESS IS 2". IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN ½" CONTACT BUREAU OF STRUCTURES DESIGN SECTION FOR REVIEW.

CONCRETE COVER (1" MIN.) SHALL BE MAINTAINED AND CONSIDERED WHEN DETERMINING CONCRETE REMOVALS.

TOTAL ESTIMATED QUANTITIES

	BID ITEM NUMBER	BID ITEM	UNIT	TOTALS
	502.0120.S	NON-SHRINK GROUT	CF	2
	502.3200	PROTECTIVE SURFACE TREATMENT	SY	1,195
	502.3210	PIGMENTED SURFACE SEALER	SY	333
	502.3215.S	PROTECTIVE SURFACE TREATMENT RESEAL	SY	200
	509.0301	PREPARATION DECKS TYPE 1	SY	145
	509.0302	PREPARATION DECKS TYPE 2	SY	80
	509.0500	CLEANING DECKS	SY	1,200
☆	509.1500	CONCRETE SURFACE REPAIR	SF	350
	509.2000	FULL-DEPTH DECK REPAIR	SY	4
	509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	90
	509.9050.S	CLEANING PARAPETS	LF	630
	616.0405	FENCE CHAIN LINK SALVAGED 5-FT	LF	327

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-73-4

DRAWN BY KAM | PLANS CK'D. EAN

CROSS SECTION & QUANTITIES

SHEET 2 OF 2

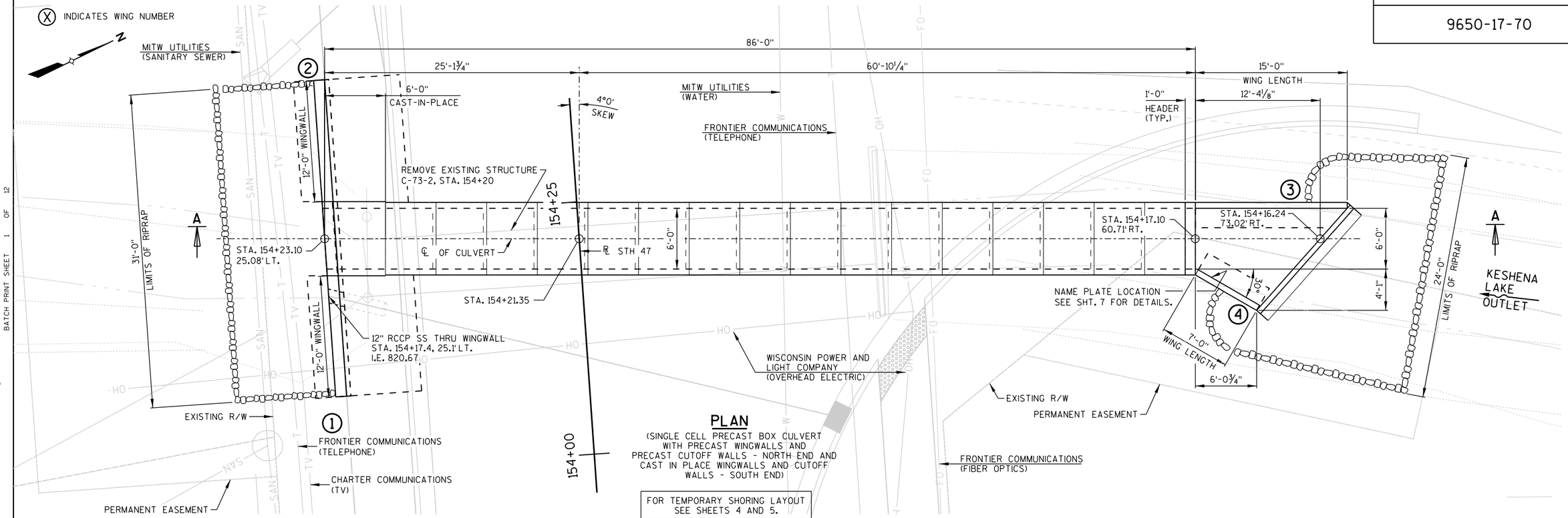
461

8

8

STATE PROJECT NUMBER

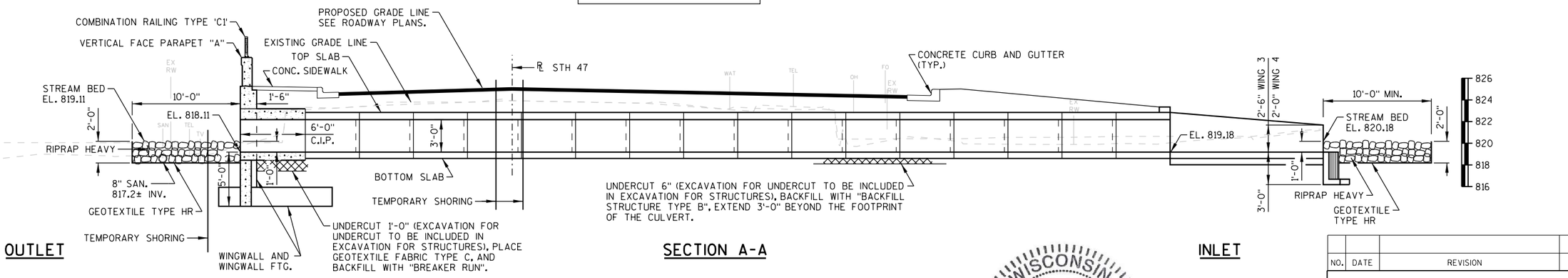
9650-17-70



PLAN

(SINGLE CELL PRECAST BOX CULVERT WITH PRECAST WINGWALLS AND PRECAST CUTOFF WALLS - NORTH END AND CAST IN PLACE WINGWALLS AND CUTOFF WALLS - SOUTH END)

FOR TEMPORARY SHORING LAYOUT SEE SHEETS 4 AND 5.



OUTLET

SECTION A-A

INLET

DESIGN DATA

LIVELOAD:

DESIGN LOADING: HL-93
INVENTORY RATING FACTOR = 1.05
OPERATING RATING FACTOR = 1.35
MAXIMUM STANDARD PERMIT VEHICLE (WIS.-SPV): 255 KIPS

EARTHLOAD:

DESIGNED FOR FILL HEIGHT RANGE OF 1.0 TO 3.5 FEET.

MATERIAL PROPERTIES:

PRECAST CONCRETE	f'c = 4.0 K.S.I.
CONCRETE MASONRY	f'c = 3.5 K.S.I.
BAR STEEL REINFORCEMENT	fy = 60.0 K.S.I.
WIRE FABRIC	fy = 65.0 K.S.I.

TRAFFIC VOLUME

STH 47

A.D.T. (2019) = 6,660
A.D.T. (2039) = 7,860
DESIGN SPEED = 35 MPH

HYDRAULIC DATA

100 YEAR FREQUENCY

Q100	40 CFS
VELOCITY	6.0 FPS
HIGH WATER ELEVATION Q100	822.09
DRAINAGE AREA	3.2 SQ. MI.
ROAD OVERTOPPING	N/A

2 YEAR FREQUENCY

Q2	15 CFS
HIGH WATER ELEVATION Q2	821.42

LIST OF DRAWINGS

1. GENERAL PLAN & ELEVATION
2. CROSS SECTION & QUANTITIES
3. SUBSURFACE EXPLORATION
4. TEMPORARY STREAM DIVERSION PIPES-1
5. TEMPORARY STREAM DIVERSION PIPES-2
6. PRECAST CONCRETE BOX CULVERT BARREL DETAILS
7. INLET DETAILS
8. OUTLET WINGWALLS
9. CAST-IN-PLACE OUTLET DETAILS
10. VERTICAL FACE PARAPET 'A'
11. COMBINATION RAIL TYPE 'C1'
12. COMBINATION RAIL TYPE 'C1' DETAILS

WISCONSIN
MATTHEW S. KRIPPNER
E-42470
VERONA
WI
PROFESSIONAL ENGINEER

11/27/2019

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
BILL DREHER (608) 266-8489

CONSULTANT:
MATT KRIPPNER (608) 828-8123

AECOM PROJECT No. 60285986

NO.	DATE	REVISION	BY

AECOM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED SDR 05/05/20
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE C-73-4

STH 47 OVER KESHENA LAKE OUTLET

COUNTY MENOMINEE | TOWN ~~CITY/VILLAGE~~ KESHENA

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
CAB	MSK	KAM	MSK

GENERAL PLAN & ELEVATION

SHEET 1 OF 12
462

8

8

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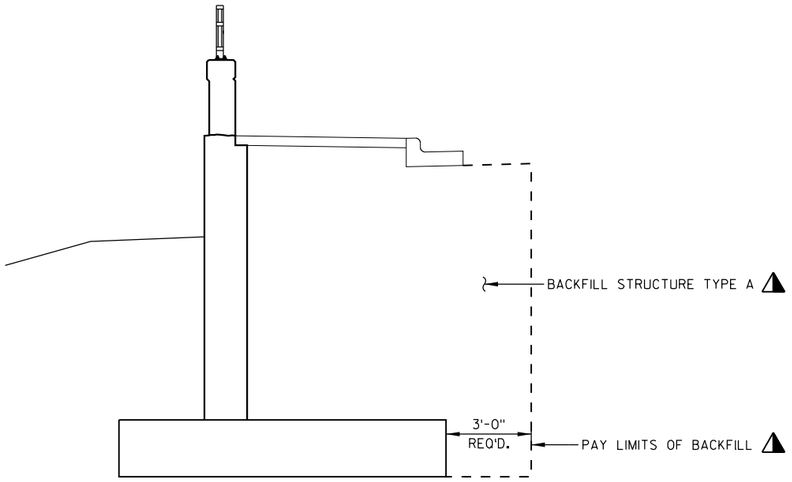
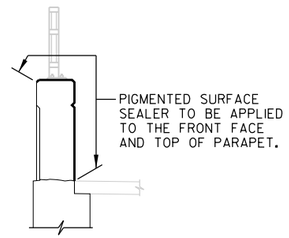
STATE PROJECT NUMBER

9650-17-70



TYPICAL SECTION THRU CIP WING WALL



PARAPET SURFACE PROTECTION DETAIL

GENERAL NOTES

STRUCTURE SHALL BE A PREFABRICATED REINFORCED CONCRETE BOX CULVERT, WITH INSIDE OF CELL MEASURING 6'WIDE x 3'HIGH x 80'LONG, AND CIP REINFORCED CONCRETE BOX CULVERT, WITH INSIDE OF CELL MEASURING 6'WIDE x 3'HIGH x 6'LONG. BARREL IS INTENDED TO NATURALLY SILT-UP AND BE BURIED APPROXIMATELY 12" BELOW THE NATURAL CHANNEL.

DRAWINGS SHALL NOT BE SCALED.

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

STRUCTURE BACKFILL IS REQUIRED BEHIND ALL WINGWALLS.

WITHIN THE LENGTH OF THE BOX, ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TO THE ELEVATION AND SECTION EXISTING PRIOR TO EXCAVATION WITHIN THE LENGTH OF THE CULVERT.

LEGEND

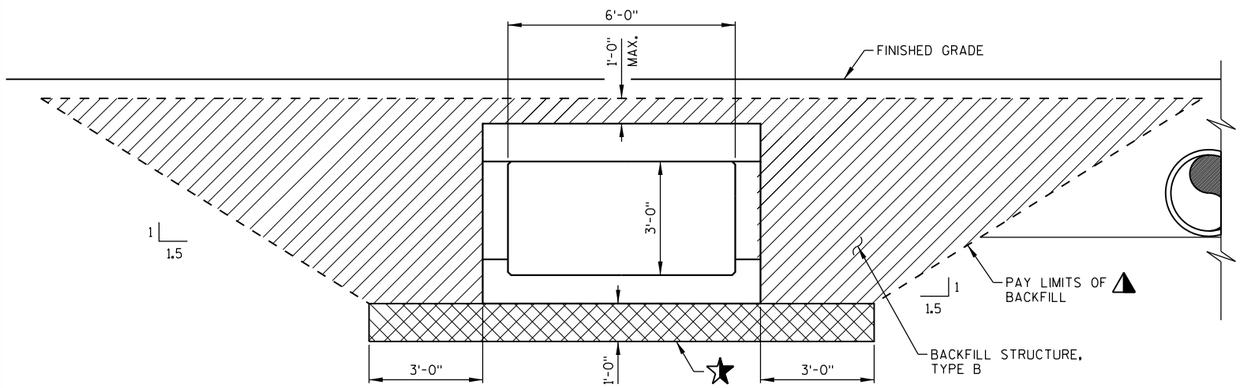
◑ UNDERCUT 6" AND BACKFILL WITH STRUCTURE BACKFILL. EXTEND 3'-0" BEYOND THE FOOTPRINT OF THE CULVERT.

◭ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

★ UNDERCUT 1'-0", PLACE GEOTEXTILE TYPE C, AND BACKFILL WITH "BREAKER RUN". EXTEND 3'-0" BEYOND THE FOOTPRINT OF THE CULVERT.

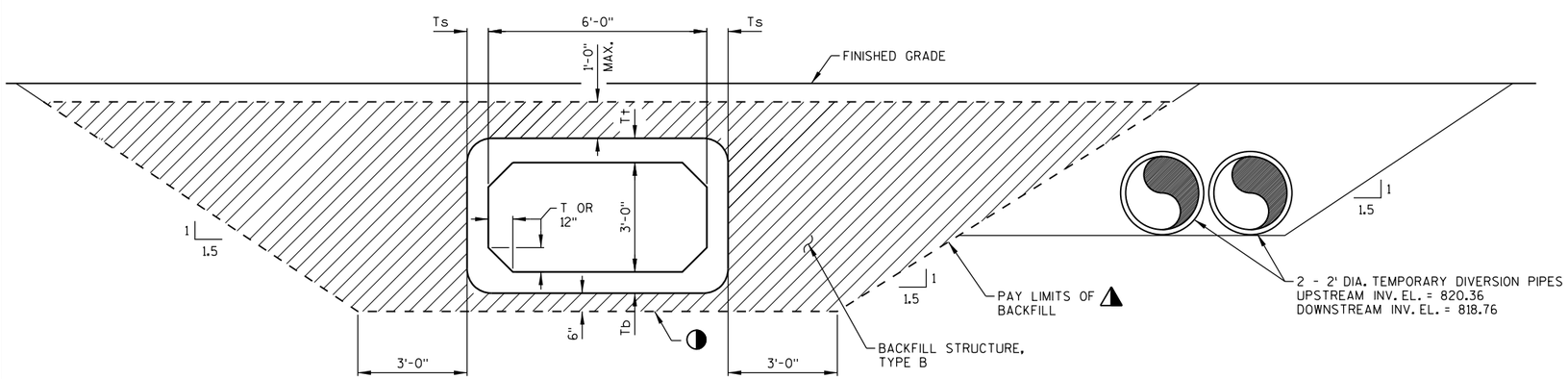
TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEM	UNIT	TOTALS
203.0600.S	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STATION 154+20	LS	1
206.2000	EXCAVATION FOR STRUCTURES CULVERTS C-73-4	LS	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	195
210.2500	BACKFILL STRUCTURE TYPE B	TON	530
311.0110	BREAKER RUN	TON	6
502.3210	PIGMENTED SURFACE SEALER	SY	13
504.0100	CONCRETE MASONRY CULVERTS	CY	36
504.1000.S	PRECAST CONCRETE WINGWALLS C-73-4	LS	1
504.2000.S	PRECAST CONCRETE BOX CULVERT, 6 FT X 3 FT	LF	80
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	4,870
511.1200	TEMPORARY SHORING C-73-4	SF	800
513.7006	RAILING STEEL TYPE C1 C-73-4	LF	31
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	7
606.0300	RIPRAP HEAVY	CY	55
645.0105	GEOTEXTILE TYPE C	SY	9
645.0120	GEOTEXTILE TYPE HR	SY	85
SPV.0105.02	TEMPORARY STREAM DIVERSION PIPES, KESHENA LAKE OUTLET	LS	1
	NON-BID ITEMS		
	FILLER	SIZE	3/4"



CROSS SECTION THRU CIP CULVERT

(LOOKING UPSTREAM)



CROSS SECTION THRU PRECAST CULVERT

(LOOKING UPSTREAM)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-73-4

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CROSS SECTION & QUANTITIES

SHEET 2 OF 12

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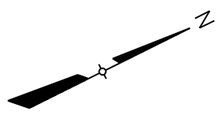
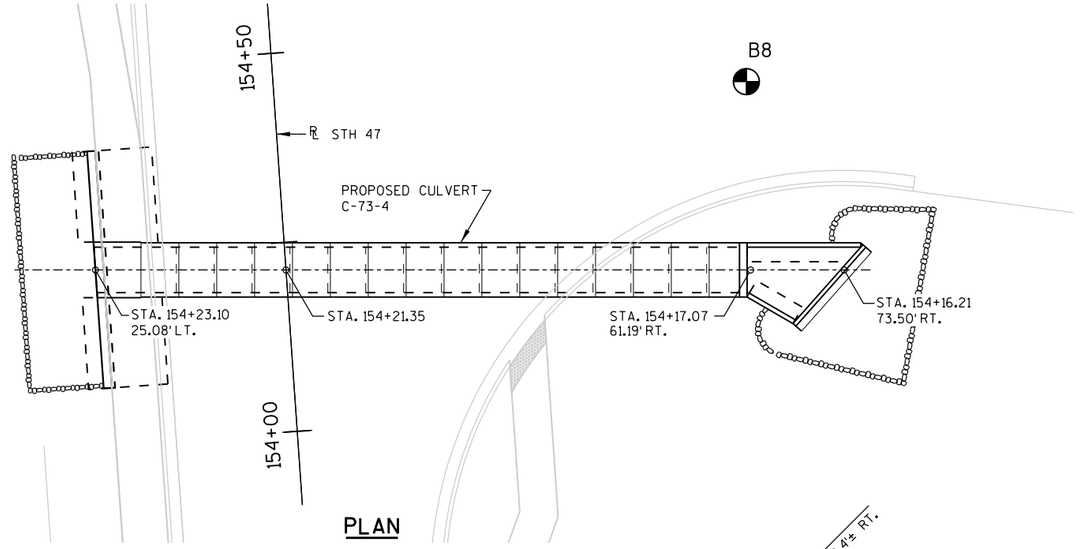
BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
B8	6/20/2013	60963.70±	289786.20±

BORINGS COMPLETED BY: NUMMELIN TESTING SERVICES, INC.

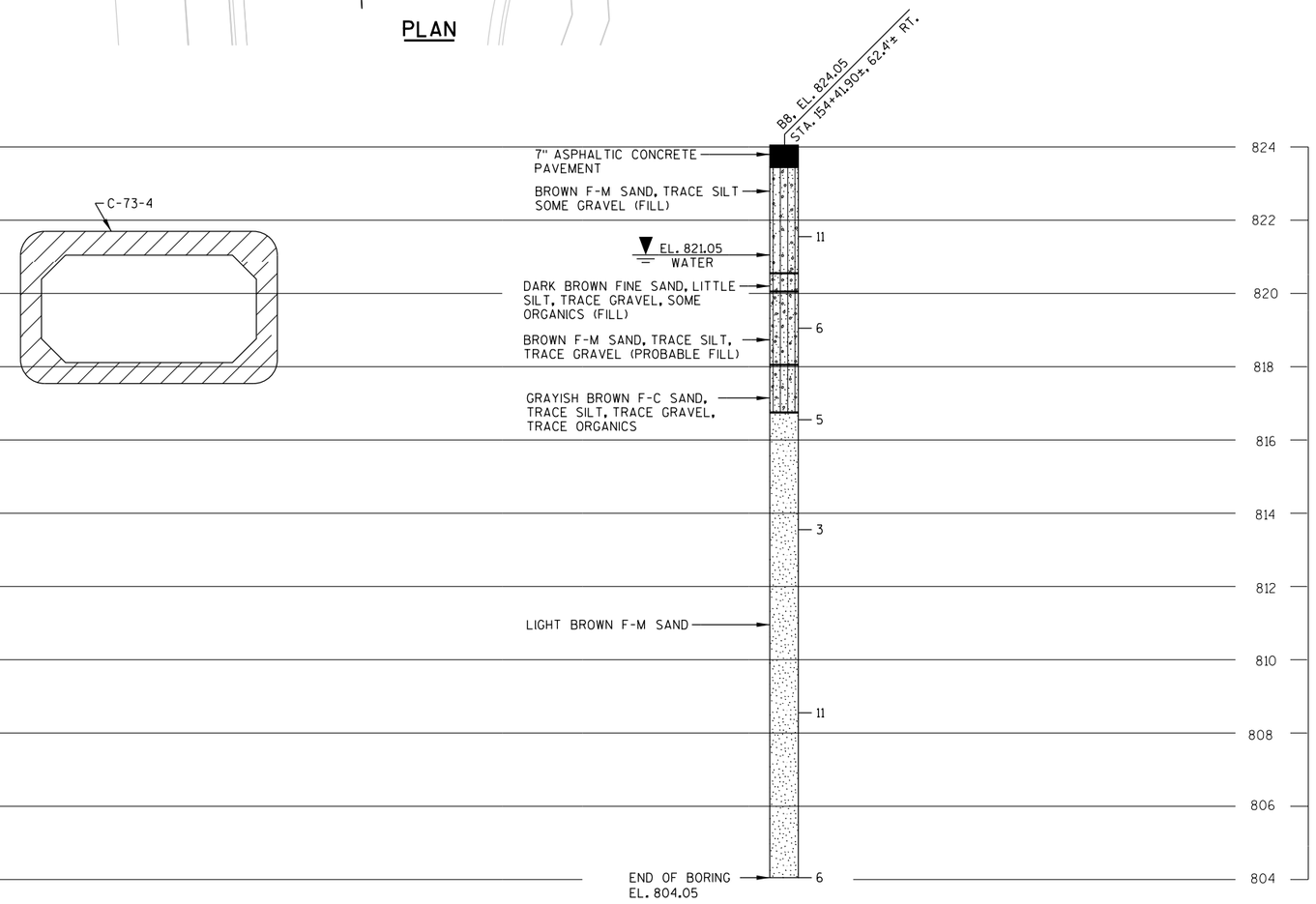
REPORT COMPLETED BY: NUMMELIN TESTING SERVICES, INC.

ALL COORDINATES REFERENCED TO WCCS NAD 83(91) MENOMINEE COUNTY





PLAN



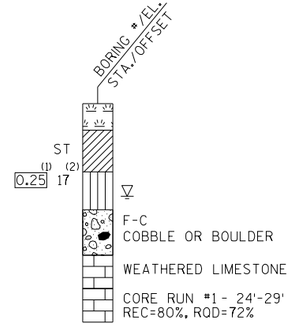
STATE PROJECT NUMBER

9650-17-70

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- ▽ AT TIME OF DRILLING
- ▼ END OF DRILLING
- ▽ AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-73-4

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SUBSURFACE EXPLORATION

SHEET 3 OF 12

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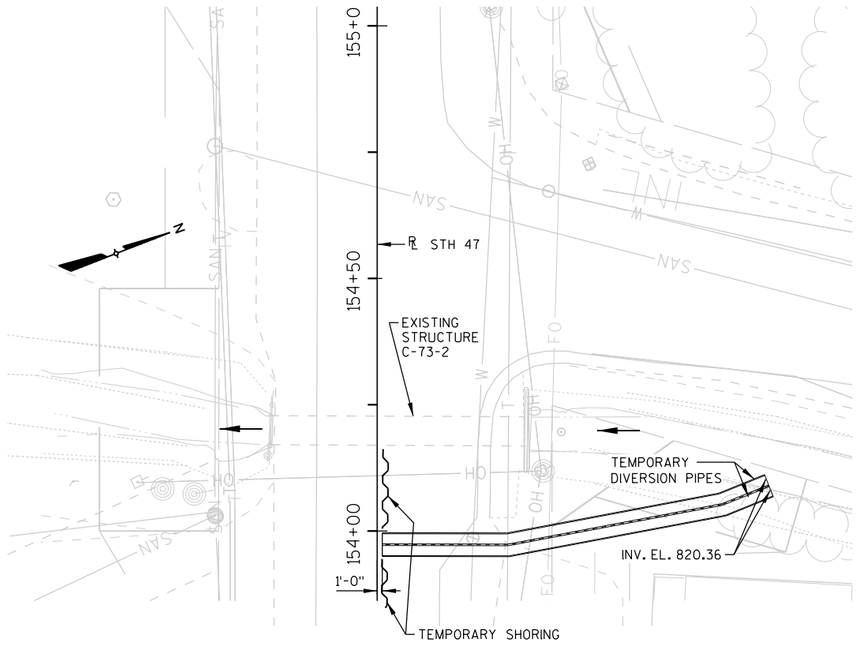
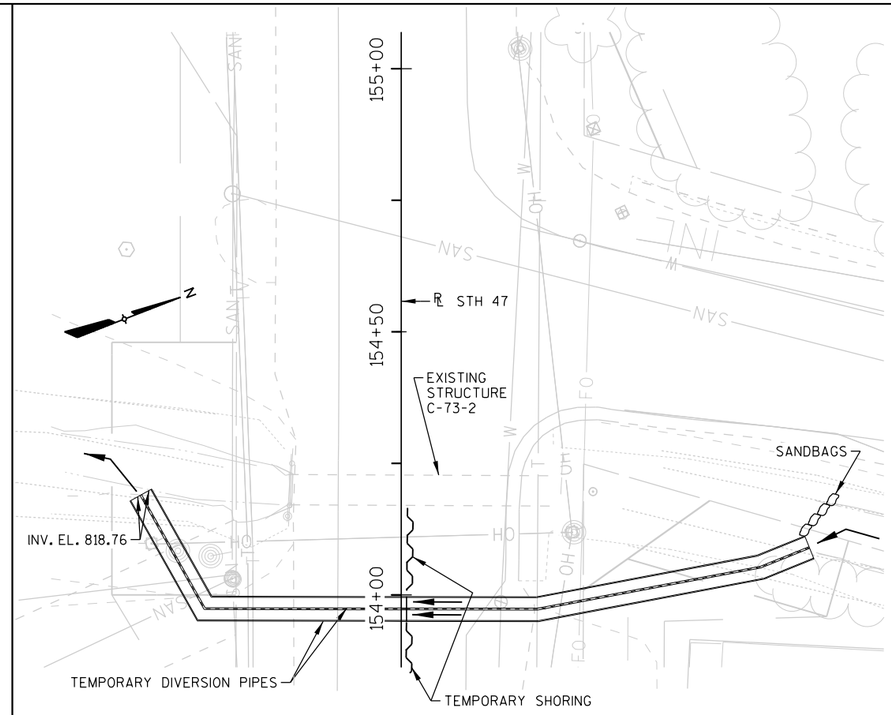
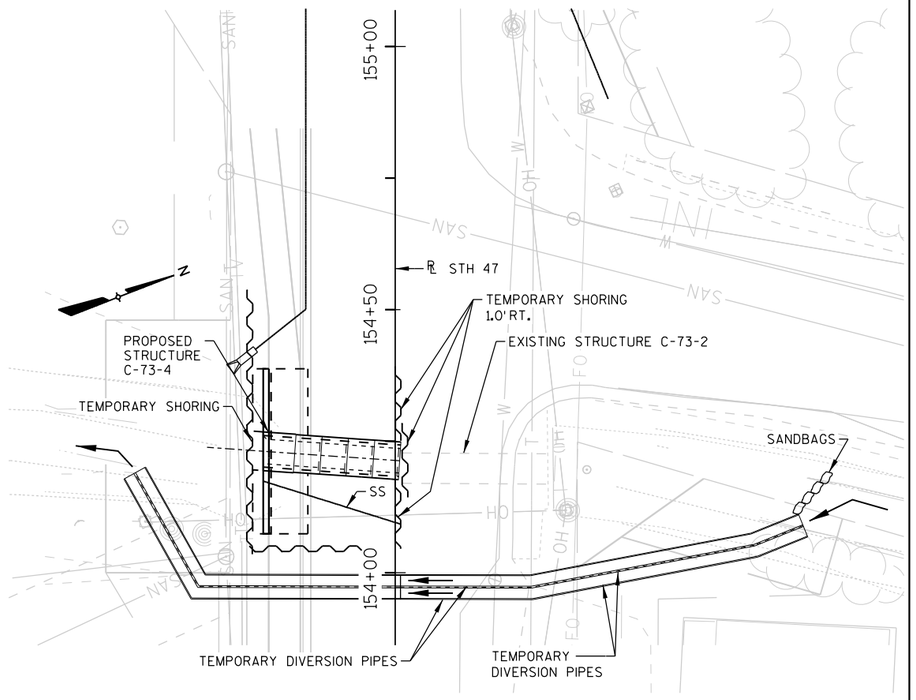


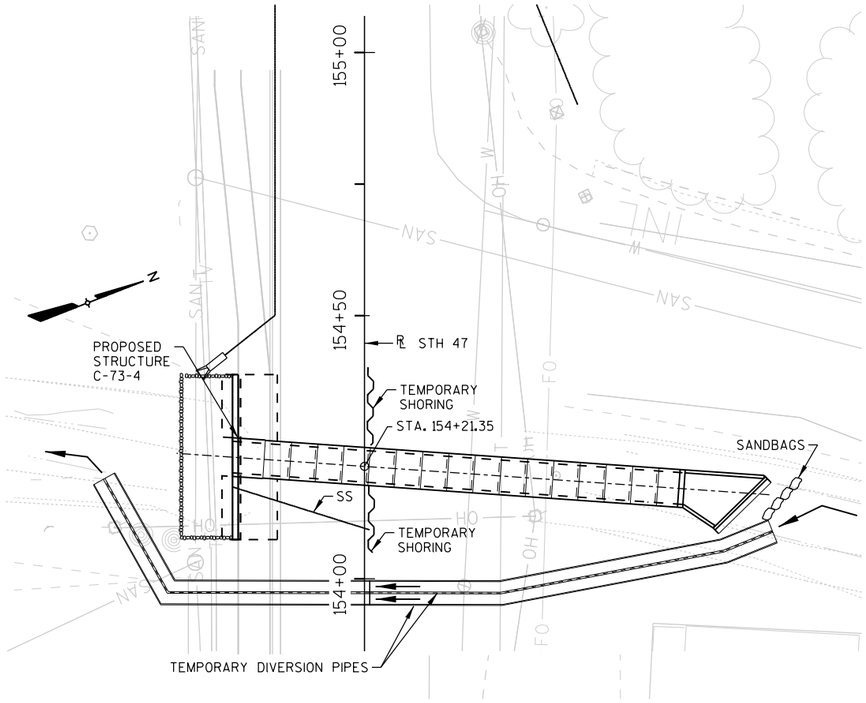
PLAN VIEW - STAGE 1A



PLAN VIEW - STAGE 1B



PLAN VIEW - STAGE 1B



PLAN VIEW - STAGE 1C

STATE PROJECT NUMBER

9650-17-70

CULVERT REPLACEMENT STAGING

STAGE 1A

1. INSTALL THE NORTH HALF OF TEMPORARY DIVERSION PIPES (UNDER THE NORTHBOUND LANE) TO THE EAST OF THE EXISTING CULVERT. DIVERT ALL TRAFFIC TO THE SOUTHBOUND LANE.
2. PLACE TEMPORARY BASE COURSE AND PAVE NORTHBOUND LANE WITH TEMPORARY ASPHALT TO MATCH EXISTING PAVEMENT.

STAGE 1B

1. SHIFT TRAFFIC TO NORTHBOUND LANE.
2. INSTALL THE SOUTH HALF OF THE TEMPORARY DIVERSION PIPES (UNDER THE SOUTHBOUND LANE).
3. DIVERT THE CHANNEL TO THE TEMPORARY DIVERSION PIPES.
4. INSTALL TEMPORARY SHORING AND EXCAVATE.
5. REMOVE THE SOUTH HALF OF THE EXISTING CULVERT.
6. INSTALL THE SOUTH HALF OF THE 6'W. x 3'H. PRECAST BOX CULVERT, CAST-IN-PLACE WINGWALLS AND CULVERT END.
7. PLACE TEMPORARY BASE COURSE AND PAVE SOUTHBOUND LANE WITH TEMPORARY PAVEMENT.

STAGE 1C

1. SHIFT TRAFFIC TO SOUTHBOUND LANE.
2. INSTALL TEMPORARY SHORING AND EXCAVATE.
3. REMOVE THE NORTH HALF OF THE EXISTING CULVERT.
4. INSTALL THE NORTH HALF OF THE 6'W. x 3'H. PRECAST BOX CULVERT AND APRON.

LEGEND

WATER FLOW DIRECTION

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-73-4

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TEMPORARY STREAM DIVERSION PIPES-1

SHEET 4 OF 12
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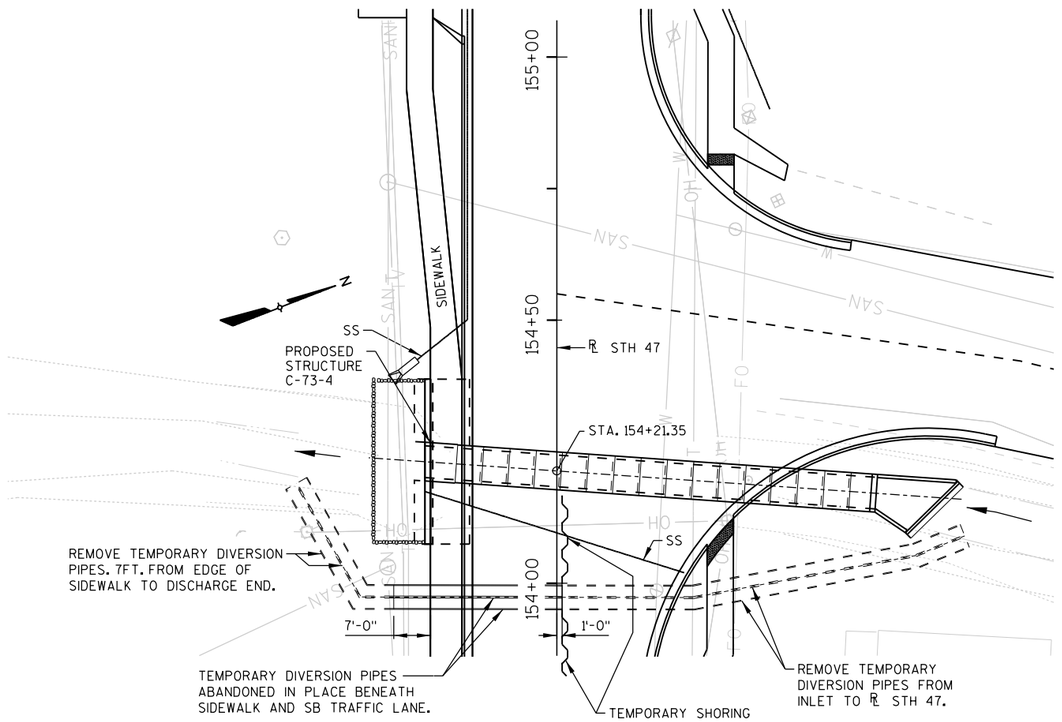

PLAN VIEW - STAGE 1C

CULVERT REPLACEMENT STAGING

STAGE 1C

1. REMOVE THE NORTH HALF OF THE TEMPORARY DIVERSION PIPES.
2. REMOVE TEMPORARY DIVERSION PIPES. 7FT. FROM EDGE OF SIDEWALK TO DISCHARGE END.

LEGEND

← WATER FLOW DIRECTION

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-73-4

DRAWN BY KAM | PLANS CK'D. MSK

TEMPORARY STREAM DIVERSION PIPES-2

SHEET 5 OF 12
466

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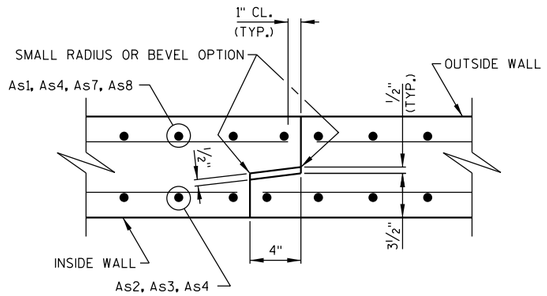
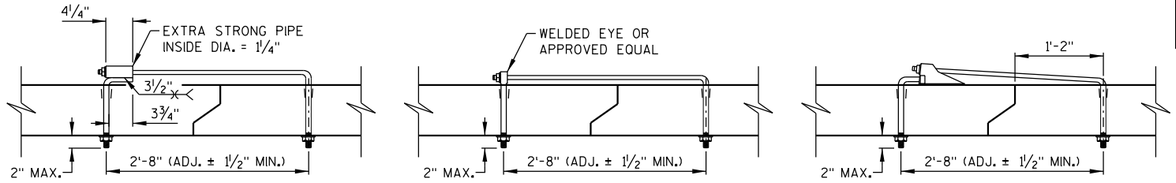
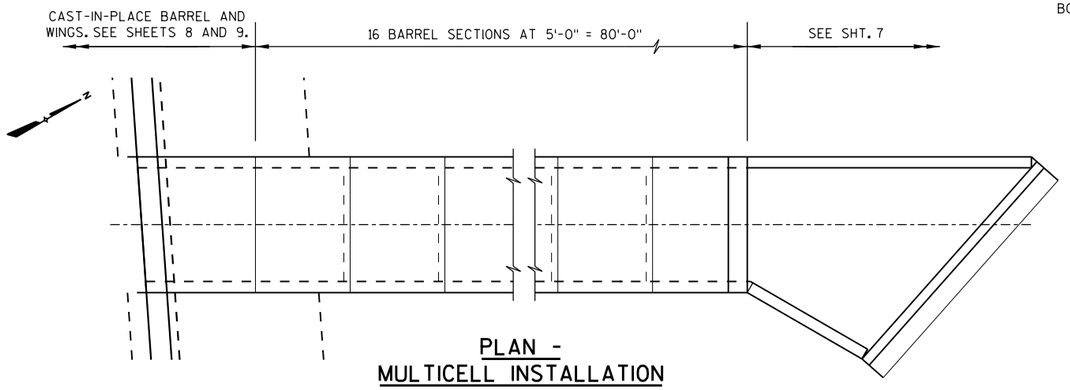


JOINT DETAIL

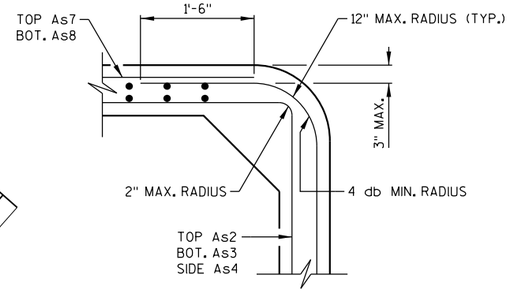


JOINT TIES

NOTES:
EITHER EYE BOLT TIES, WELDED PIPE TIES OR CANOPY TIES MAY BE USED. THREADS MAY BE CUT OR ROLLED. TIE NUTS SHALL BE TIGHTENED AS DIRECTED BY THE ENGINEER. (2 TIES REQUIRED PER JOINT.) (TIES TO BE GALVANIZED.)



PLAN - MULTICELL INSTALLATION



ALTERNATE DETAIL OPTION

NOTES

DETAILS FOR MATERIALS, FABRICATION, CONSTRUCTION AND DESIGN OF PRECAST BOX CULVERTS NOT SHOWN OR STATED ON THIS DRAWING SHALL BE IN ACCORDANCE WITH THE CURRENT ASTM SPECIFICATION, C1577; AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS; WISCONSIN DOT BRIDGE MANUAL; WISCONSIN DOT STANDARD SPECIFICATIONS & APPLICABLE SPECIAL PROVISIONS. EXCEPT THAT THE CONCRETE MIXTURE SHALL CONTAIN NOT LESS THAN 565 LBS. OF CEMENTITOUS MATERIALS PER CUBIC YARD.

THE DESIGN OF PRECAST BOX CULVERTS WITH ALL FILL HEIGHTS SHALL BE AS STATED IN ASTM C1577.

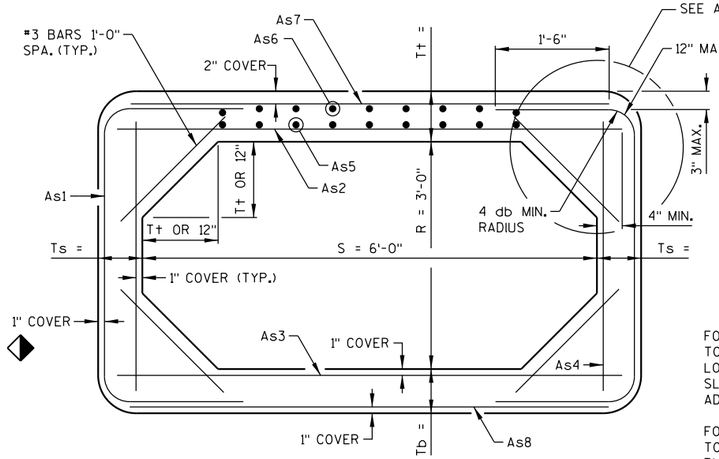
ALL PRECAST BOX SECTIONS SHALL BE PLACED ON A BEDDING OF "STRUCTURAL BACKFILL" OF 6" MINIMUM DEPTH.

THE COVER OF CONCRETE OVER THE REINFORCEMENT SHALL BE 1 INCH OR 2 INCHES AS SHOWN WITH AN ALLOWABLE VARIATION OF -3/8" TO +1/2" INCH.

THE SPACING CTR. TO CTR. OF THE CIRCUMFERENTIAL WIRES SHALL BE NOT LESS THAN 2 INCHES NOR MORE THAN 4 INCHES. THE SPACING CTR. TO CTR. OF THE LONGIT. WIRES SHALL NOT BE MORE THAN 8 INCHES.

NOT MORE THAN FOUR (4) HOLES MAY BE CAST, DRILLED OR OTHERWISE NEATLY MADE IN THE SHELL OF EACH PIECE OF BOX SECTION FOR HANDLING. THE HOLES SHALL BE TAPERED, UNLESS DRILLED. THE HOLES SHALL BE FILLED WITH PORTLAND CEMENT MORTAR EXCEPT TAPERED HOLES MAY BE FILLED WITH CONCRETE PLUGS SECURED WITH PORTLAND CEMENT MORTAR OR OTHER APPROVED ADHESIVE.

THE JOINT ON THE BOTTOM OF THE CULVERT & THE SIDES OF THE CULVERT FROM THE BOTTOM TO A POINT 1'-0" FROM THE CEILING SHALL BE SEALED WITH A PREFORMED MASTIC. PREFORMED MASTIC MUST CONFORM TO AASHTO MATERIALS SPEC. M198, TYPE B. A 2'-0" STRIP OF GEOTEXTILE TYPE DF SCHEDULE A SHALL BE PLACED OVER THE JOINTS ON THE TOP AND ON THE SIDES OF THE CULVERT. THE GEOTEXTILE SHALL CONFORM TO SECTION 645.2.2.4 OF THE STANDARD SPECIFICATION.

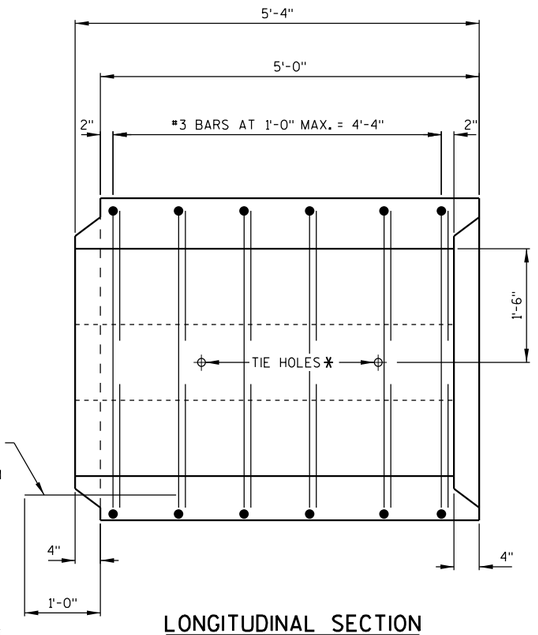


SECTION THRU BARREL

◆ 1" OR 3 x WIRE DIAMETER, WHICHEVER IS GREATER.

FOR EXTERNAL PANEL (ADJACENT TO APRON) PLACE *5 BARS 2'-0" LONG AT 1'-0" SPACING IN BOTTOM SLAB. OMIT TONGUE OR GROOVE ADJACENT TO APRON.

FOR EXTERNAL PANEL (ADJACENT TO CAST-IN-PLACE BOX SECTION) PLACE *5 BARS 2'-0" LONG AT 1'-0" SPA. IN TOP AND BOTTOM SLAB, AS WELL AS IN SIDEWALLS. OMIT TONGUE OR GROOVE ADJACENT TO CAST-IN-PLACE BOX SECTION.



LONGITUDINAL SECTION

* CULVERT TIES ARE TO BE 1" DIA. RODS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-73-4

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PRECAST CONCRETE BOX CULVERT BARREL DETAILS

SHEET 6 OF 12
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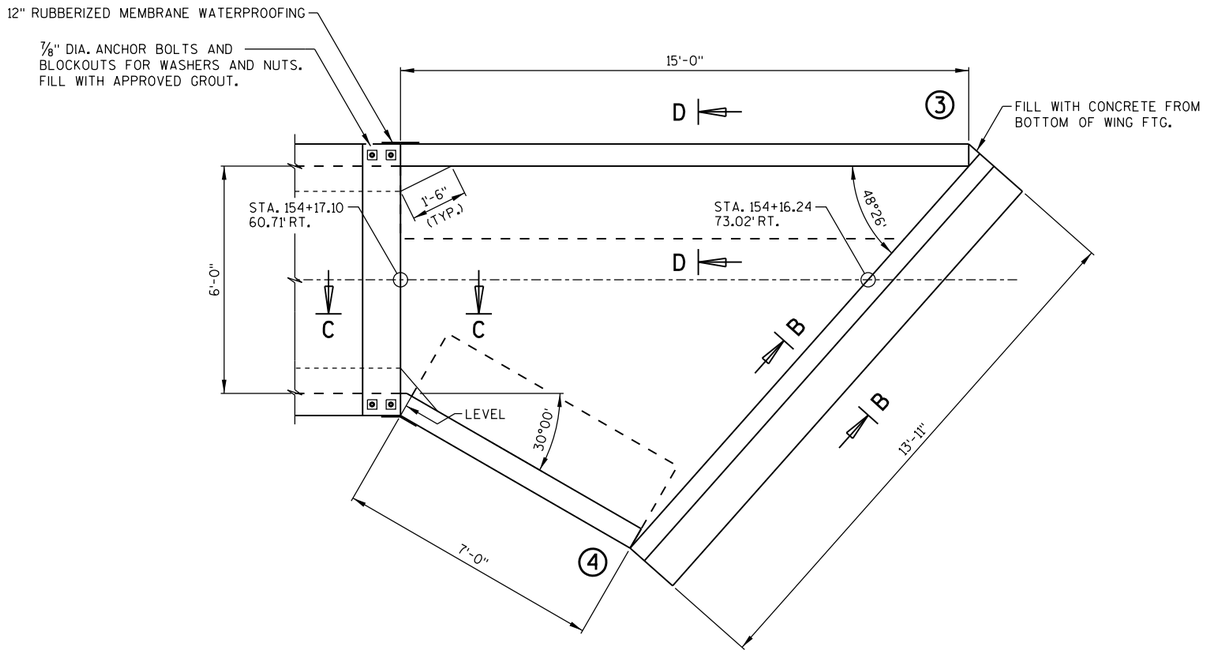
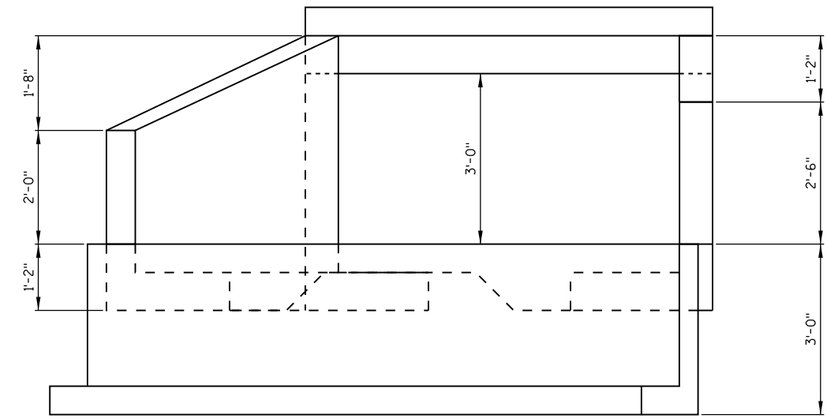
STATE PROJECT NUMBER

9650-17-70



PLAN VIEW - INLET



END VIEW

NOTES

CONCRETE COVER ON ALL REINFORCEMENT IN THE PRECAST ELEMENTS SHALL BE 2" UNLESS SHOWN OR NOTED OTHERWISE.

STEEL REINFORCEMENT MAY BE EITHER GRADE 60 DEFORMED BARS (Fy = 60,000 P.S.I.) OR WELDED DEFORMED - WIRE FABRIC OF EQUIVALENT AREA. (Fy = 65,000 P.S.I.)

THE ULTIMATE COMPRESSIVE STRENGTH OF THE FIELD POURED CONCRETE SHALL BE 3,500 P.S.I.

ALTERNATE DETAILS OF EQUAL STRENGTH AND HYDRAULIC CAPACITY TO THE DETAILS SHOWN ON THIS SHEET MAY BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

THE ULTIMATE COMPRESSIVE STRENGTH OF THE CONCRETE IN THE PRECAST ELEMENTS SHALL BE 4,000 P.S.I.

THE PRECAST ELEMENTS SHALL BE PROVIDED WITH SUITABLE LIFTING DEVICES FOR HANDLING AND PLACEMENT OF THE ELEMENTS.

VERTICAL CONSTRUCTION JOINTS THRU THE WALLS AND FOOTING WILL BE ALLOWED ONLY WITH THE APPROVAL OF THE ENGINEER. DETAILS MUST BE SHOWN ON THE SHOP DRAWINGS FOR APPROVAL.

THE AREA OF REINFORCING STEEL NOT IDENTIFIED IN SECTIONS SHALL CONFORM TO THE FOLLOWING TEMPERATURE AND SHRINKAGE REQUIRMENTS.

THICKNESS	T & S REINF.
≤ 12"	#4 @ 18"
> 12"-18"	#4 @ 12"

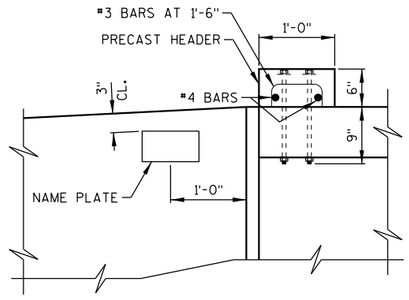
THE 7/8"Φ ANCHOR BOLTS SHALL BE GALVANIZED AND CONFORM TO THE REQUIREMENTS OF A.S.T.M. A575.

ALL EXPOSED CORNERS SHALL BE BEVELED 3/4" ON THE SIDES OR TOOL EDGED WITH A 1/2" MINIMUM RADIUS EDGER.

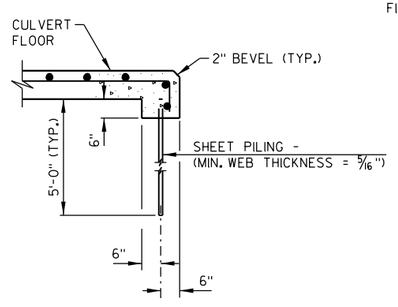
PRECAST CUT OFF WALLS MAY BE FIELD SPLICED BY EXTENDING THE REINFORCING STEEL FROM BOTH SEGMENTS TO BE SPLICED 1'-6" INTO THE SPLICE ZONE. LAPPING THE STEEL ± 1'-6" AND FIELD POURING A SECTION OF CUT OFF WALL 1'-6" LONG.

PRECAST ELEMENTS MAY BE POURED IN PLACE AT THE OPTION OF THE CONTRACTOR.

APRON SHALL BE POURED AND CURED PRIOR TO BACKFILLING WINGWALLS.

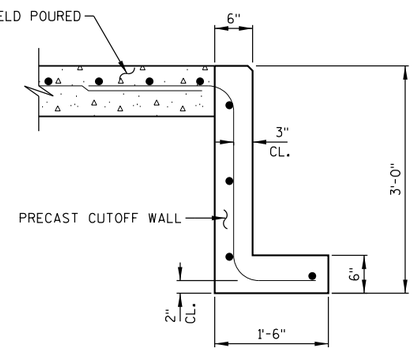


SECTION C-C

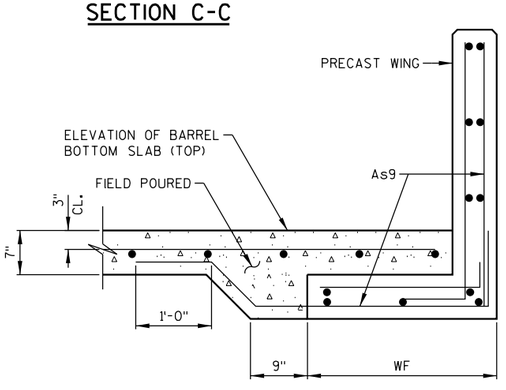


ALTERNATE CUTOFF WALL DETAILS

NOTE: THE ABOVE ALTERNATE MAY BE USED IN LIEU OF THE CONCRETE CUT OFF WALL. PAYMENT IS BASED ON PRECAST CONCRETE WINGWALLS.



SECTION B-B



SECTION D-D

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-73-4

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INLET DETAILS

SHEET 7 OF 12
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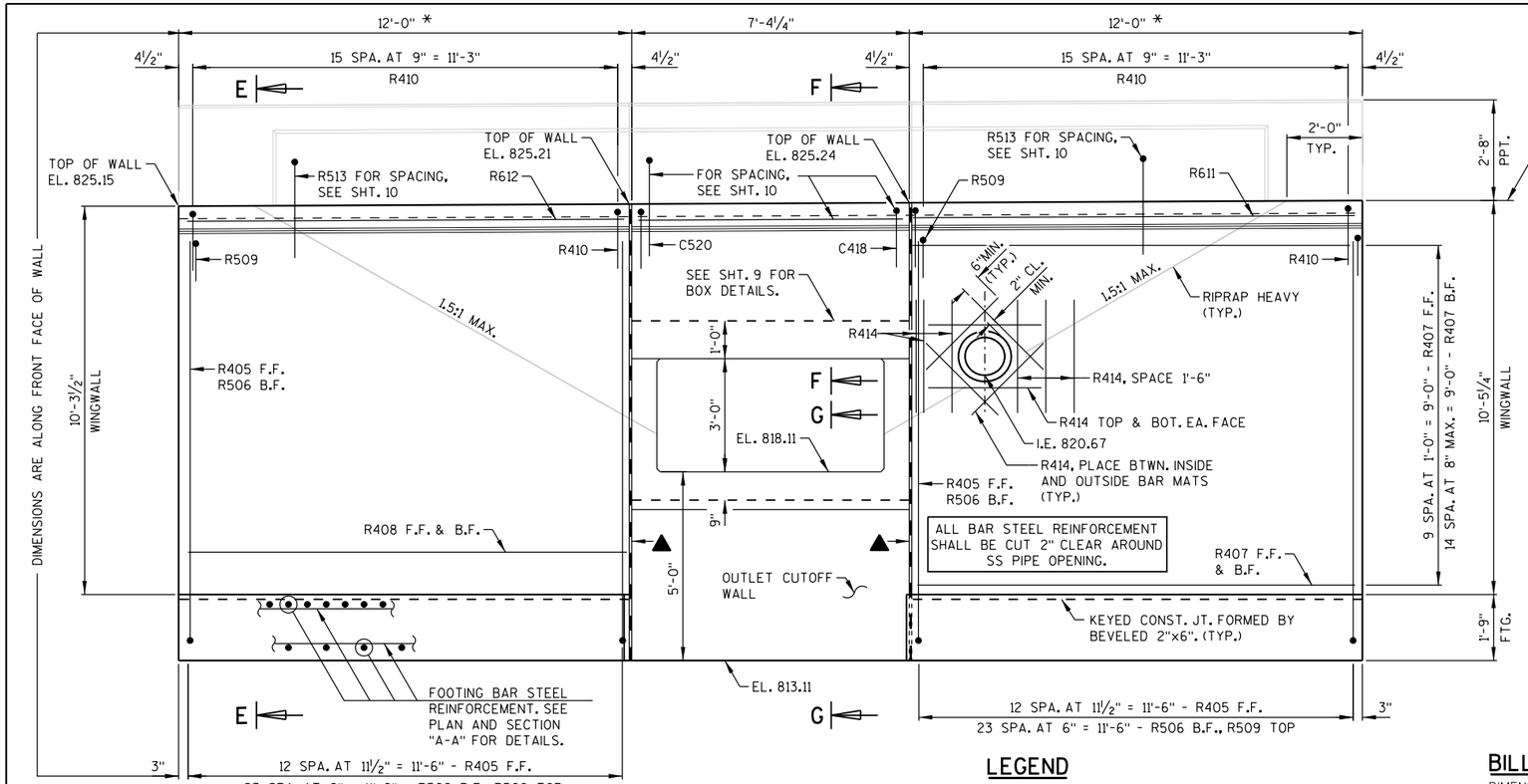
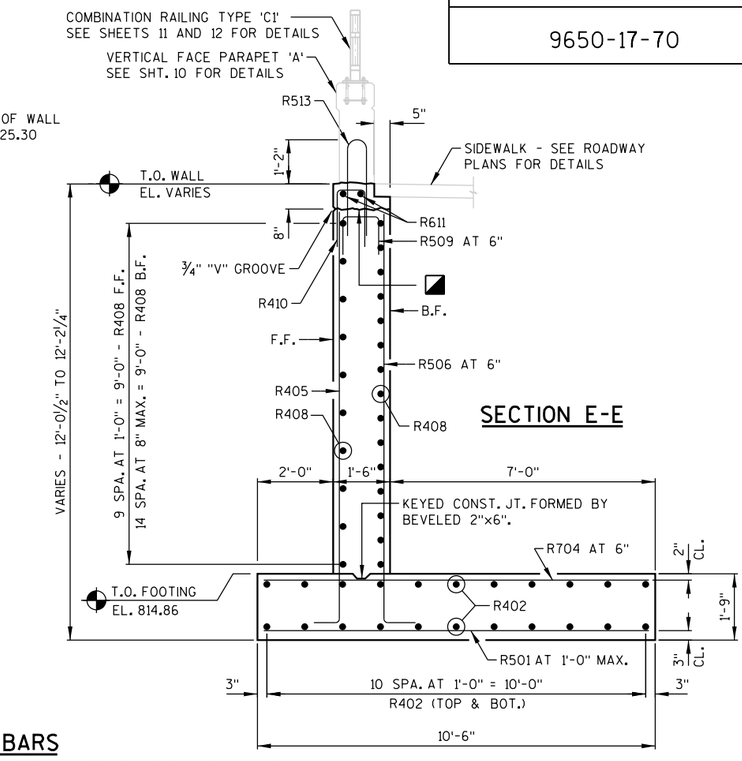
STATE PROJECT NUMBER

9650-17-70



ELEVATION WINGS 1 AND 2



LEGEND

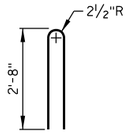
▲ ¾" FILLER TO EXTEND FROM BOT. OF FTG. TO TOP OF PARAPET. SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF ¾" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE.)

◪ OPTIONAL CONST. JT. LEAVE ROUGH. IF JOINT IS USED UTILIZE R.M.W. (COST INCIDENTAL TO "CONCRETE MASONRY CULVERTS")

BILL OF BARS

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.
△ LENGTH SHOWN FOR BAR IS AN AVG. LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

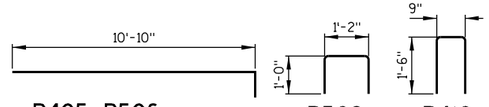
MARK	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
COATED BARS					TOTAL WEIGHT = 3,380 LBS
R501	26	10-2			FOOTING - BOT. TRANS.
R402	22	11-4		△	FOOTING - TOP & BOT. WING 1 LONGIT.
R403	22	11-9		△	FOOTING - TOP & BOT. WING 2 LONGIT.
R704	49	10-2			FOOTING - TOP TRANS.
R405	26	11-5	X		FOOTING/WALL VERT.
R506	48	11-7	X		FOOTING/WALL VERT.
R407	25	11-6			WALL WING 1 HORIZ.
R408	25	11-6			WALL WING 2 HORIZ.
R509	48	2-11	X		WALL - TOP VERT.
R410	32	3-7	X		WALL - TOP VERT.
R611	2	11-6			WALL - TOP WING 1 LONGIT.
R612	2	11-6			WALL - TOP WING 2 LONGIT.
R513	40	5-8	X		WALL/PARAPET VERT.
R414	24	3-0			WALL - PIPE FRAME OUT VERT.



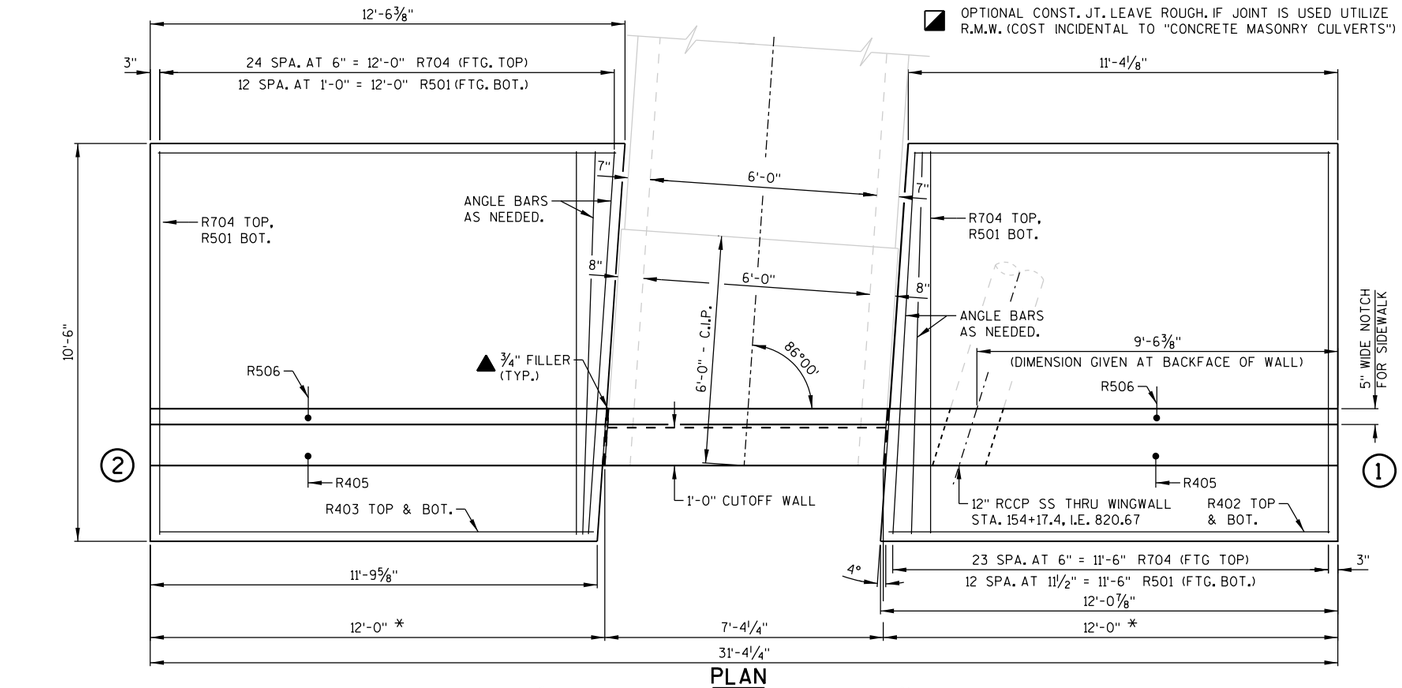
R513

BAR SERIES

MARK	NO. REQ'D	LENGTH
R402	2 SETS OF 11	11'-0" TO 11'-8"
R403	2 SETS OF 11	11'-5" TO 12'-2"

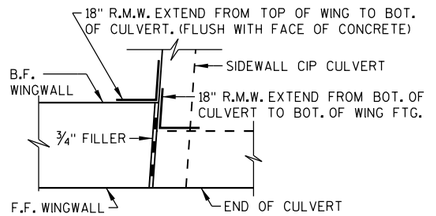


R405, R506 R509 R410



PLAN

* MEASURED ALONG F.F. OF WALLS. DIM. INCLUDES ¾" FILLER.



RUBBERIZED MEMBRANE WATERPROOFING

(TYPICAL ALL CORNERS)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-73-4

DRAWN BY KAM | PLANS CK'D. MSK

OUTLET WINGWALLS

SHEET 8 OF 12
469

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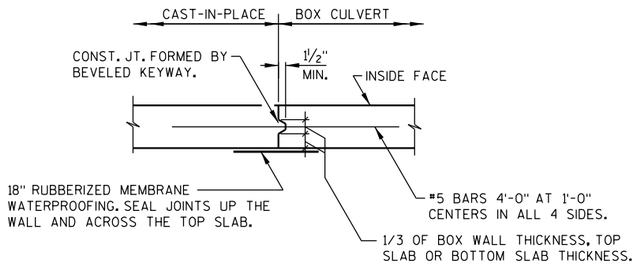
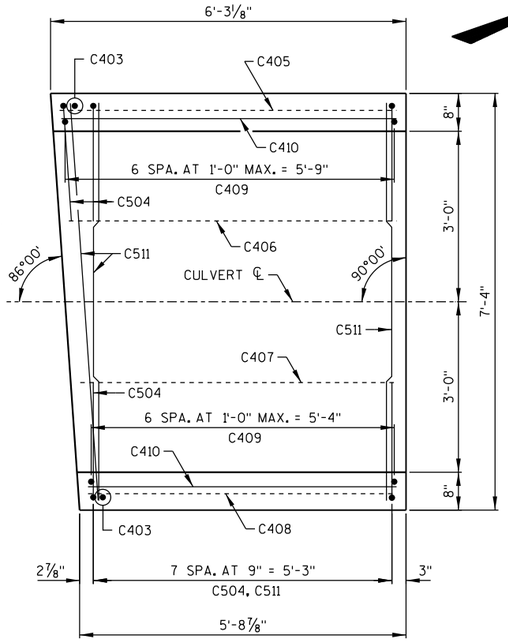
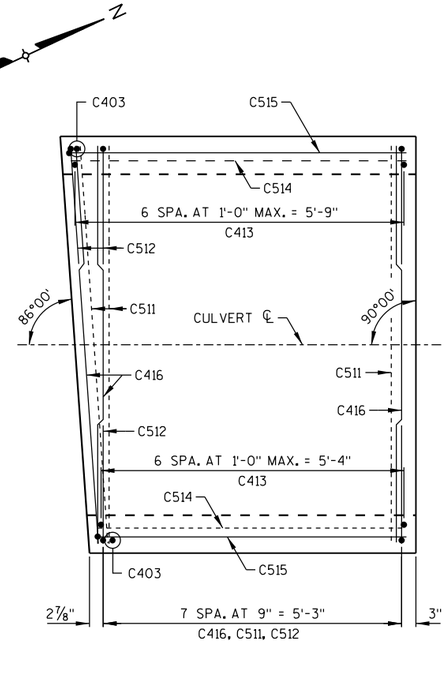


CAST-IN-PLACE TO PRECAST CONSTRUCTION JOINT



BOTTOM PLAN VIEW - OUTLET



TOP PLAN VIEW - OUTLET

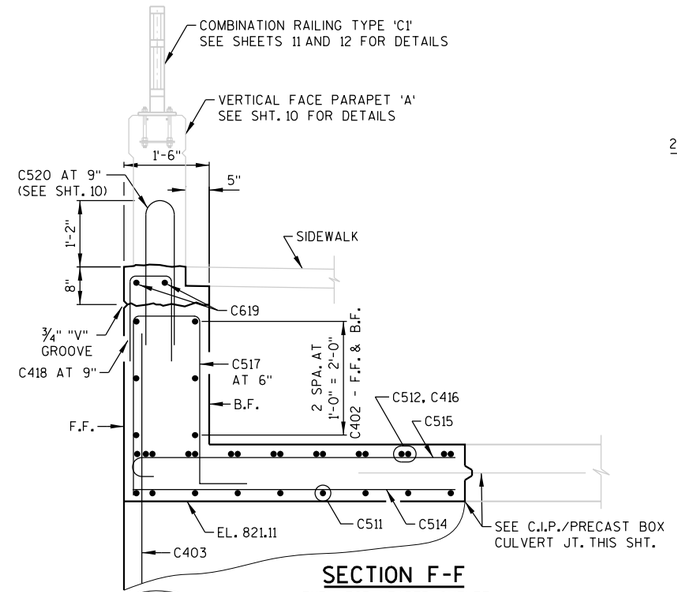
BILL IF BARS

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.
△ LENGTH SHOWN FOR BAR IS AN AVG. LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

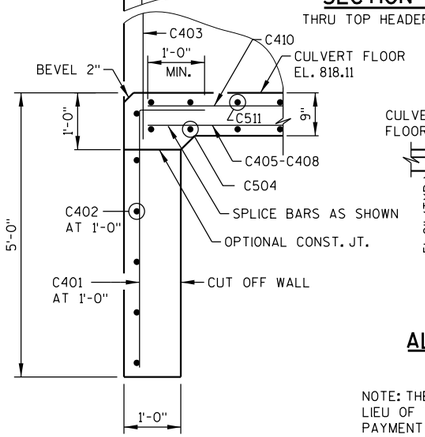
MARK	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
COATED BARS					TOTAL WEIGHT = 990 LBS
C401	8	5-6	X		CUTOFF WALL VERT.
C402	12	7-0			CUTOFF WALL AND HEADER TRANS.
C403	4	6-8			CORNER TIE VERT.
C504	17	5-6	X		TIE - BOTTOM VERT.
C405	7	5-11			BOTTOM LONGIT.
C406	1	5-9			BOTTOM LONGIT.
C407	1	5-6			BOTTOM LONGIT.
C408	7	5-5			BOTTOM LONGIT.
C409	14	2-3			TIE - INSIDE BOTTOM VERT.
C410	8	5-8		△	BOTTOM LONGIT.
C511	18	7-0			BOTTOM AND TOP TRANS.
C512	17	5-5	X		TIE - TOP VERT.
C413	14	3-5			TIE - INSIDE TOP VERT.
C514	8	5-8		△	TOP LONGIT.
C515	15	6-3		△	TOP LONGIT.
C416	8	7-0			TOP TRANS.
C517	15	7-8	X		HEADER VERT.
C418	11	3-7	X		HEADER TRANS.
C619	2	7-0			HEADER TOP TRANS.
C520	10	5-8	X		HEADER PARAPET TIE VERT.

BAR SERIES

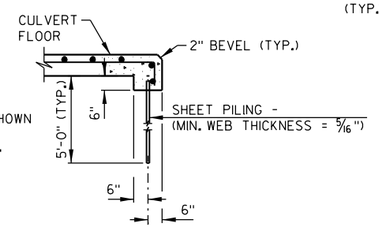
MARK	NO. REQ'D	LENGTH
C410	1 SET OF 8	5'-5" TO 5'-11"
C514	1 SET OF 8	5'-5" TO 5'-10"
C515	1 SET OF 15	6'-0" TO 6'-6"



SECTION F-F
THRU TOP HEADER OUTLET

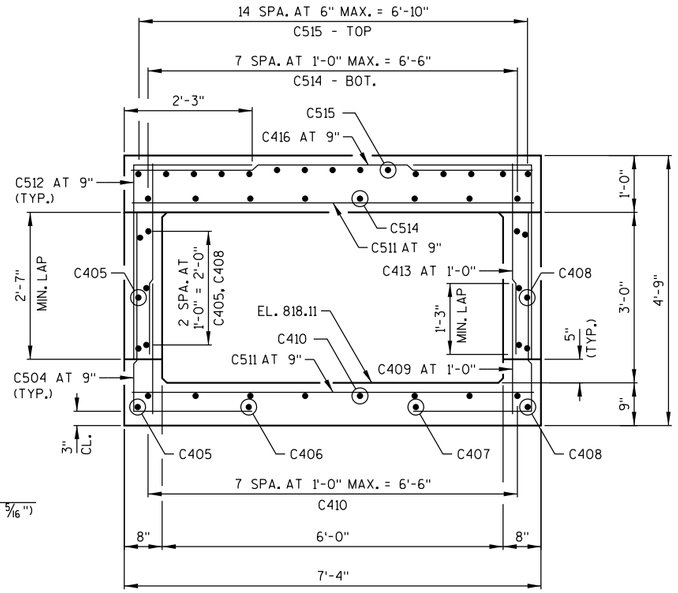


SECTION G-G
THRU OUTLET CUTOFF WALL

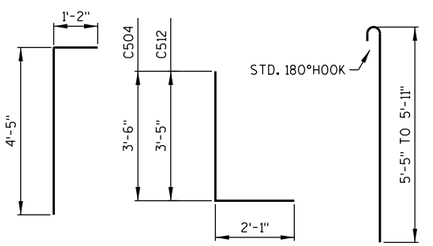


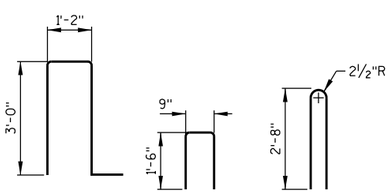
ALTERNATE CUTOFF WALL DETAILS

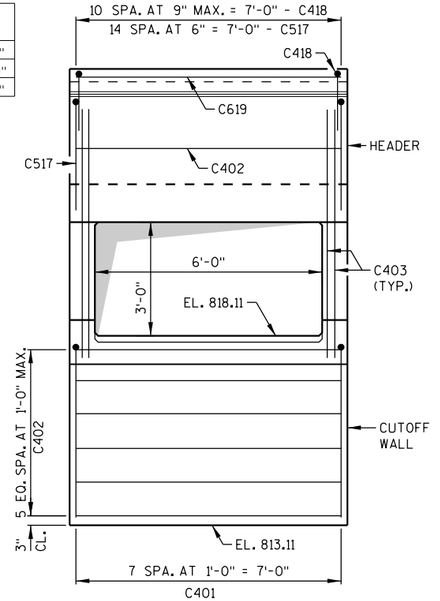
NOTE: THE ABOVE ALTERNATE MAY BE USED IN LIEU OF THE CONCRETE CUT OFF WALL. PAYMENT IS BASED ON THE CONCRETE CUT OFF WALL.



TYPICAL SECTION THRU BOX







ELEVATION
(LOOKING NORTH)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-73-4

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CAST-IN-PLACE OUTLET DETAILS

SHEET 9 OF 12
470

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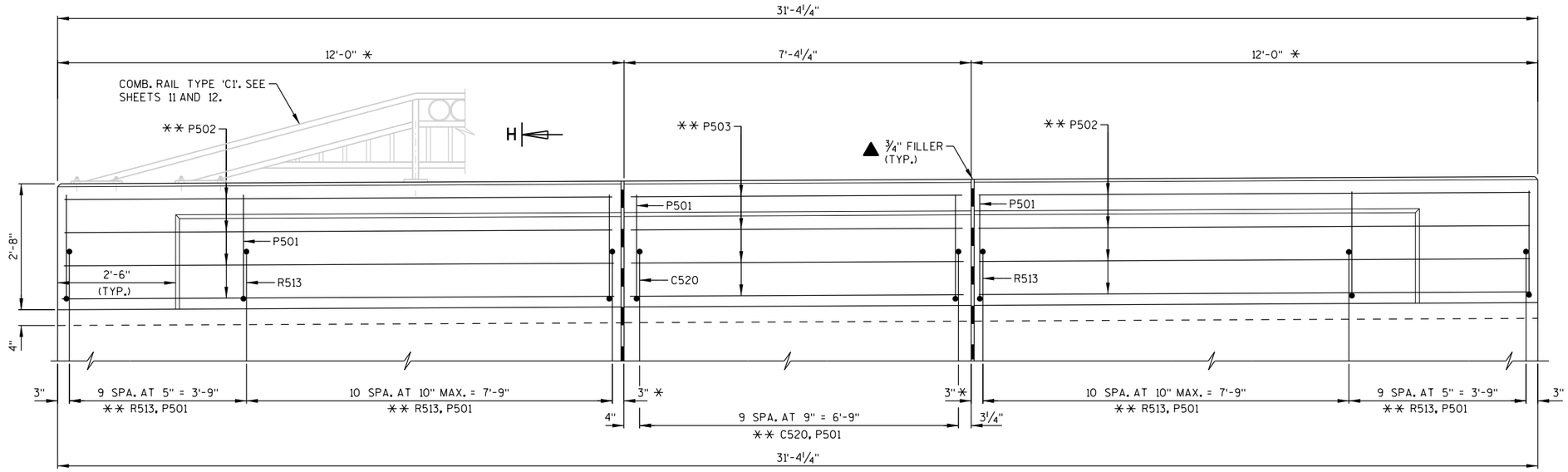
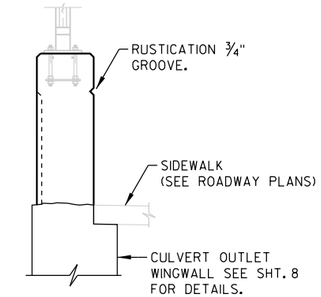


OUTSIDE FACE OF PARAPET

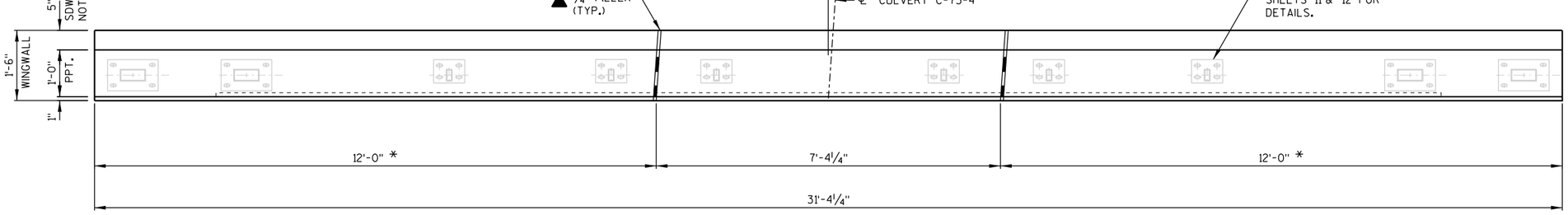
H

* MEASURED ALONG F.F. OF WALLS. DIM. INCLUDES ¾" FILLER.

** ADJUST LOCATIONS OF BARS TO ALLOW PLACEMENT OF ANCHOR ASSEMBLY FOR RAILING.

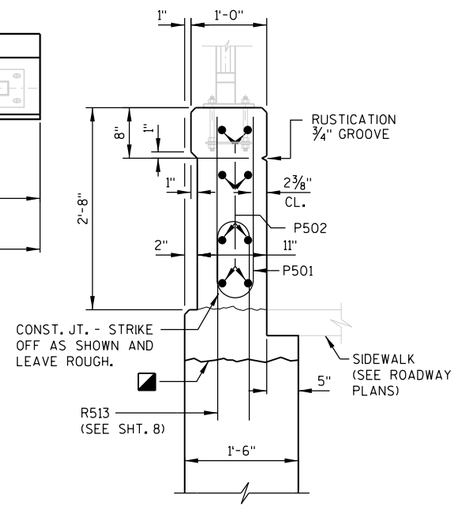


END VIEW



PLAN

* MEASURED ALONG F.F. OF WALLS. DIM. INCLUDES ¾" FILLER.

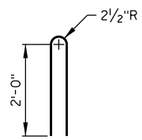


SECTION H-H

BILL OF BARS

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.

MARK	NO. REQ'D	LENGTH	BENT	LOCATION	
COATED BARS				TOTAL WEIGHT = 500 LBS	
P501	50	4 - 9	X	PARAPET	VERT.
P502	16	11 - 6		PARAPET - WINGS 1 AND 2	HORIZ.
P503	8	7 - 0		PARAPET - ABOVE CULVERT	HORIZ.



P501

LEGEND

▲ ¾" FILLER TO EXTEND FROM BOT. OF FTG. TO TOP OF PARAPET. SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF 3"4" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1"8" BELOW SURFACE OF CONCRETE.)

◪ OPTIONAL CONST. JT. LEAVE ROUGH. IF JOINT IS USED UTILIZE R.M.W. (COST INCIDENTAL TO "CONCRETE MASONRY CULVERTS")

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-73-4

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VERTICAL FACE PARAPET 'A'

SHEET 10 OF 12
471

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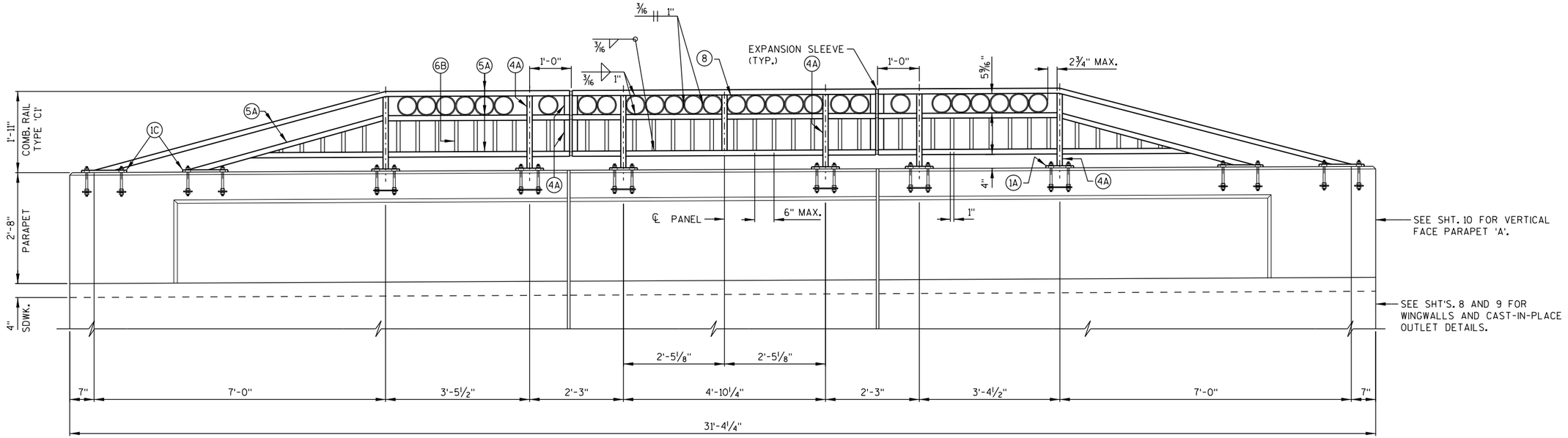
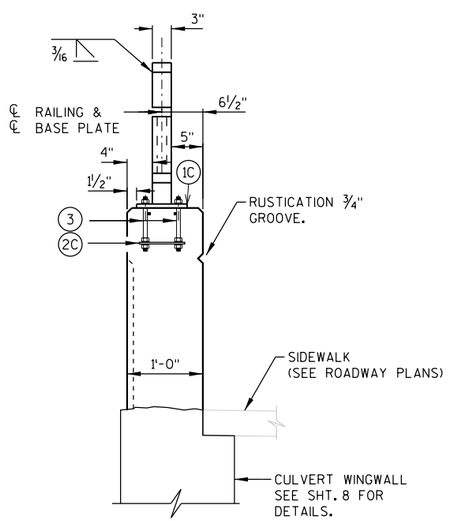
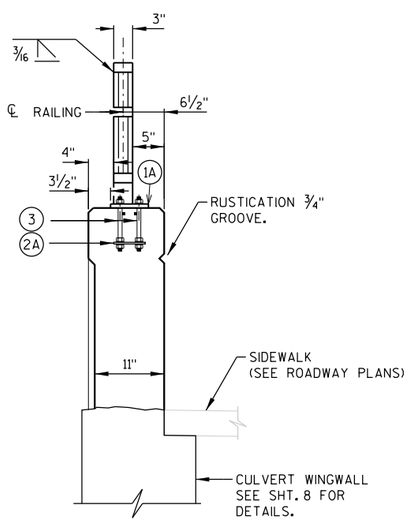


OUTSIDE FACE OF PARAPET & RAIL



END VIEW



TYP. RAIL POST

LEGEND

FOR LEGEND DESCRIPTIONS SEE SHT. 12.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-73-4

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COMBINATION
RAIL TYPE 'C1'

SHEET 11 OF 12
472

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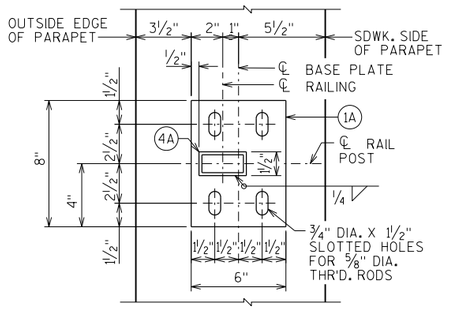
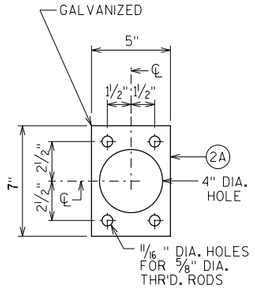
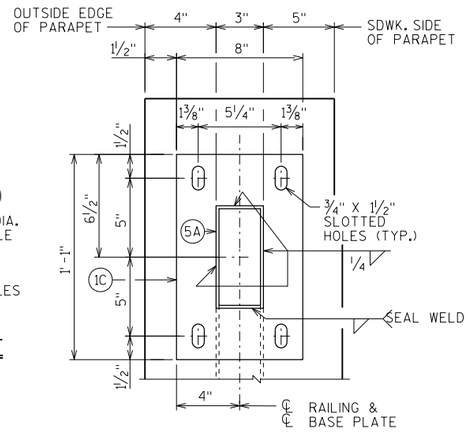


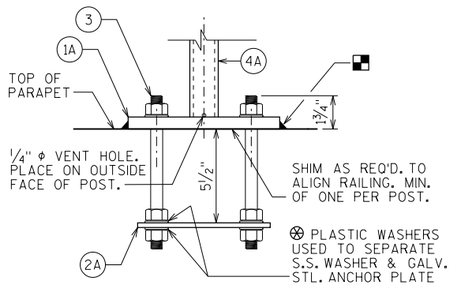
TYPICAL RAIL POST BASE PLATE



ANCHOR PLATE

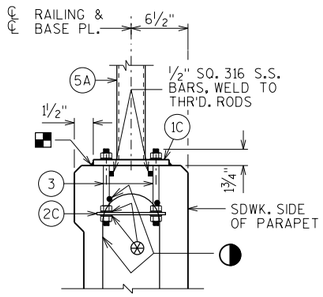


END RAIL BASE PLATE



ANCHORAGE FOR RAIL POSTS

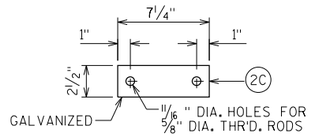
NOTE: ANCHOR PLATE NOT REQUIRED WHEN ADHESIVE ANCHORS ARE USED.



ANCHORAGE FOR END RAIL

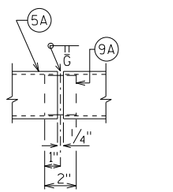
NOTE: ANCHOR PLATES NOT REQ'D. WHEN ADHESIVE ANCHORS ARE USED.

◑ WHEN ADHESIVE ANCHORS ARE USED, FIELD BEND AND OR DISPLACE TO AVOID HITTING LONGITUDINAL BAR WHEN DRILLING FOR ADHESIVE ANCHORS.



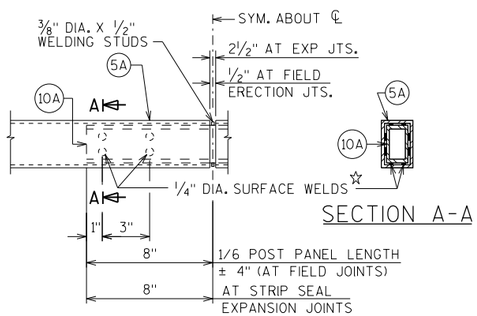
END RAIL ANCHOR PLATE

2 REQ'D. PER END RAIL BASE PLATE



SHOP RAIL SPLICE DETAIL

(LOCATION MUST BE SHOWN ON SHOP DRAWINGS)



SECTION A-A

FIELD ERECTION JOINT DETAIL

☆ MIN. ⅝" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.

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 ⅝-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 3/16". PLACE VERTICAL. WELD TO NO. 1 & 5.

(5A) STRUCTURAL TUBING 3" X 1½" X 3/16" RAILS. WELD TO NO. 1 & NO. 4. INSIDE OF TUBE TO BE PAINTED AT ALL FIELD ERECTION & EXPANSION JOINTS.

(6B) BAR 1" X 1½" PICKETS. WELD TO NO. 5. (SPACE AT 6" MAX. ℄ TO ℄ SPACING) PLACE VERTICAL.

(8) STRUCTURAL TUBING 5" DIA. (STANDARD SIZE) (5.563" O.D.) 1½" LONG SLICES. WELD TO NO. 5A.

(9A) RECTANGULAR SLEEVE FABRICATED FROM 3/16" PLATES. PROVIDE "SLIDING FIT".

(10A) RECTANGULAR SLEEVE FABRICATED FROM 3/16" PLATES. (1'-4" @ FIELD ERECTION JTS.) (1'-4" @ STRIP SEAL EXP. JTS.)

RAILING NOTES

BID ITEM SHALL BE "RAILING STEEL TYPE C1", 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.

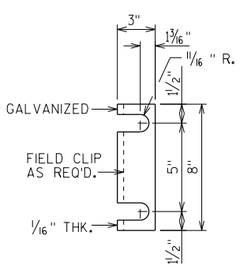
ALL JOINTS AND RECESSES IN CONCRETE PARAPET ARE TO BE VERTICAL.

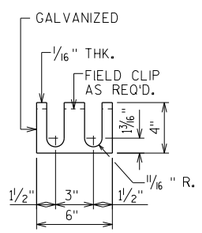
ALL MATERIAL (EXCEPT NO. 3) SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, THE STEEL RAILING SHALL BE GIVEN A NO. 6 BLAST CLEANING PER SSPC SPECIFICATIONS. PAINT OVER GALVANIZING WITH AN APPROVED TIE COAT AND TOP COAT AS SPECIFIED IN THE CONTRACT DOCUMENTS. THE RAILING SHALL BE PAINTED AMS STD. 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.

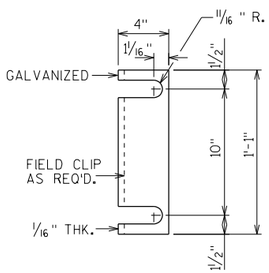
TOUCH-UP PAINTING TO BE DONE AT COMPLETION OF STEEL RAILING INSTALLATION TO THE SATISFACTION OF THE ENGINEER AT NO EXTRA COST.

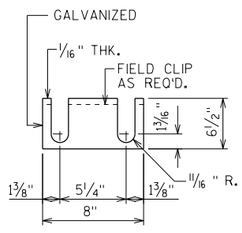




RAIL POST SHIM DETAIL

(2 SETS PER POST)





END RAIL SHIM DETAIL

(2 SETS PER POST)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-73-4

DRAWN BY KAM | PLANS CK'D. MSK

COMBINATION RAIL TYPE 'C1' DETAILS

SHEET 12 OF 12

473

8

8

STATION	REAL STATION	DISTANCE	AREA (SF)						INCREMENTAL VOL (CY) (UNADJUSTED)						CUMULATIVE VOL (CY)							MASS ORDINATE
			CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	EXPANDED ROCK	EXPANDED EBS BACKFILL	REDUCED MARSH IN FILL	REDUCED EBS IN FILL	
															1.00	1.25	1.50	1.10	1.00	0.60	0.80	
				NOTE 1					NOTE 1	NOTE 2	NOTE 3				NOTE 1		NOTE 4		NOTE 5	NOTE 6	NOTE 7	NOTE 8
82+45.00	8245	---	9.6	1.5	37.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
82+50.00	8250	5	9.7	1.5	36.6	0.0	0.0	0.0	1.8	0.3	6.9	0.0	0.0	0.0	2	9	0	0	0	0	0	-7
83+00.00	8300	50	11.1	1.5	13.2	0.0	0.0	0.0	19.2	2.8	46.1	0.0	0.0	0.0	21	66	0	0	0	0	0	-48
83+50.00	8350	50	36.3	1.5	4.4	0.0	0.0	0.0	43.9	2.8	16.3	0.0	0.0	0.0	65	87	0	0	0	0	0	-28
84+00.00	8400	50	9.8	1.5	30.7	0.0	0.0	0.0	42.7	2.8	32.5	0.0	0.0	0.0	108	127	0	0	0	0	0	-28
84+50.00	8450	50	10.8	1.5	16.7	0.0	0.0	0.0	19.1	2.8	43.9	0.0	0.0	0.0	127	182	0	0	0	0	0	-67
85+00.00	8500	50	9.4	1.5	11.4	0.0	0.0	0.0	18.8	2.8	26.0	0.0	0.0	0.0	145	214	0	0	0	0	0	-83
85+50.00	8550	50	8.0	1.5	13.9	0.0	0.0	0.0	16.2	2.8	23.5	0.0	0.0	0.0	162	244	0	0	0	0	0	-99
86+00.00	8600	50	7.4	1.5	11.6	0.0	0.0	0.0	14.3	2.8	23.6	0.0	0.0	0.0	176	273	0	0	0	0	0	-117
86+50.00	8650	50	10.9	1.5	3.3	0.0	0.0	0.0	16.9	2.8	13.8	0.0	0.0	0.0	193	291	0	0	0	0	0	-120
87+00.00	8700	50	9.0	1.5	12.8	0.0	0.0	0.0	18.3	2.8	15.0	0.0	0.0	0.0	211	309	0	0	0	0	0	-124
87+50.00	8750	50	8.3	1.5	26.4	0.0	0.0	0.0	16.0	2.8	36.3	0.0	0.0	0.0	227	355	0	0	0	0	0	-156
88+00.00	8800	50	9.3	1.5	31.8	0.0	0.0	0.0	16.3	2.8	53.9	0.0	0.0	0.0	243	422	0	0	0	0	0	-210
88+50.00	8850	50	26.2	1.5	26.5	0.0	0.0	0.0	32.8	2.8	54.0	0.0	0.0	0.0	276	490	0	0	0	0	0	-247
89+00.00	8900	50	10.6	1.5	24.5	0.0	0.0	0.0	34.1	2.8	47.2	0.0	0.0	0.0	310	549	0	0	0	0	0	-275
89+50.00	8950	50	11.4	1.5	31.2	0.0	0.0	0.0	20.3	2.8	51.6	0.0	0.0	0.0	331	613	0	0	0	0	0	-322
90+00.00	9000	50	10.3	1.5	64.8	0.0	0.0	0.0	20.0	2.8	88.9	0.0	0.0	0.0	351	724	0	0	0	0	0	-416
90+50.00	9050	50	11.8	1.5	22.1	0.0	0.0	0.0	20.4	2.8	80.4	0.0	0.0	0.0	371	825	0	0	0	0	0	-499
91+00.00	9100	50	12.7	1.5	57.7	0.0	0.0	0.0	22.7	2.8	73.9	0.0	0.0	0.0	394	917	0	0	0	0	0	-571
91+50.00	9150	50	9.7	1.5	65.9	0.0	0.0	0.0	20.8	2.8	114.4	0.0	0.0	0.0	414	1060	0	0	0	0	0	-696
92+00.00	9200	50	2.1	1.5	54.4	0.0	0.0	0.0	10.9	2.8	111.4	0.0	0.0	0.0	425	1199	0	0	0	0	0	-827
92+50.00	9250	50	1.9	1.5	76.5	0.0	0.0	0.0	3.6	2.8	121.2	0.0	0.0	0.0	429	1351	0	0	0	0	0	-978
93+00.00	9300	50	5.4	1.5	74.5	0.0	0.0	0.0	6.8	2.8	139.8	0.0	0.0	0.0	436	1526	0	0	0	0	0	-1149
93+50.00	9350	50	4.6	1.5	88.1	0.0	0.0	0.0	9.2	2.8	150.6	0.0	0.0	0.0	445	1714	0	0	0	0	0	-1330
94+00.00	9400	50	5.2	1.5	87.4	0.0	0.0	0.0	9.0	2.8	162.5	0.0	0.0	0.0	454	1917	0	0	0	0	0	-1527
94+50.00	9450	50	7.4	1.5	79.6	0.0	0.0	0.0	11.6	2.8	154.6	0.0	0.0	0.0	465	2110	0	0	0	0	0	-1712
95+00.00	9500	50	11.3	1.5	66.0	0.0	0.0	0.0	17.3	2.8	134.8	0.0	0.0	0.0	483	2279	0	0	0	0	0	-1866
95+50.00	9550	50	20.4	1.5	46.5	0.0	0.0	0.0	29.3	2.8	104.2	0.0	0.0	0.0	512	2409	0	0	0	0	0	-1969
96+00.00	9600	50	27.1	1.5	34.1	0.0	0.0	0.0	43.9	2.8	74.7	0.0	0.0	0.0	556	2502	0	0	0	0	0	-2022
96+50.00	9650	50	19.2	1.5	25.2	0.0	0.0	0.0	42.8	2.8	55.0	0.0	0.0	0.0	599	2571	0	0	0	0	0	-2050
97+00.00	9700	50	12.3	1.5	20.8	0.0	0.0	0.0	29.1	2.8	42.6	0.0	0.0	0.0	628	2624	0	0	0	0	0	-2077
97+50.00	9750	50	10.5	1.5	28.8	0.0	0.0	0.0	21.0	2.8	45.9	0.0	0.0	0.0	649	2682	0	0	0	0	0	-2116
98+00.00	9800	50	9.5	1.5	32.6	0.0	0.0	0.0	18.5	2.8	56.9	0.0	0.0	0.0	668	2753	0	0	0	0	0	-2172
98+50.00	9850	50	8.9	1.5	38.0	0.0	0.0	0.0	17.1	2.8	65.4	0.0	0.0	0.0	685	2835	0	0	0	0	0	-2239
99+00.00	9900	50	7.3	1.5	46.9	0.0	0.0	0.0	15.0	2.8	78.6	0.0	0.0	0.0	700	2933	0	0	0	0	0	-2325
99+50.00	9950	50	8.2	1.5	52.1	0.0	0.0	0.0	14.3	2.8	91.7	0.0	0.0	0.0	714	3048	0	0	0	0	0	-2428
100+00.00	10000	50	7.8	1.5	50.4	0.0	0.0	0.0	14.8	2.8	94.9	0.0	0.0	0.0	729	3166	0	0	0	0	0	-2535
100+50.00	10050	50	8.5	1.5	52.4	0.0	0.0	0.0	15.1	2.8	95.1	0.0	0.0	0.0	744	3285	0	0	0	0	0	-2641
101+00.00	10100	50	9.2	1.5	56.2	0.0	0.0	0.0	16.4	2.8	100.5	0.0	0.0	0.0	760	3411	0	0	0	0	0	-2753
101+50.00	10150	50	8.7	1.5	11.6	0.0	0.0	0.0	16.6	2.8	62.8	0.0	0.0	0.0	777	3489	0	0	0	0	0	-2818
102+00.00	10200	50	8.1	1.5	25.9	0.0	0.0	0.0	15.6	2.8	34.7	0.0	0.0	0.0	792	3533	0	0	0	0	0	-2849
102+50.00	10250	50	14.0	1.5	10.4	0.0	0.0	0.0	20.5	2.8	33.6	0.0	0.0	0.0	813	3575	0	0	0	0	0	-2873
103+00.00	10300	50	21.6	1.5	20.6	0.0	0.0	0.0	32.9	2.8	28.7	0.0	0.0	0.0	846	3610	0	0	0	0	0	-2879
103+50.00	10350	50	21.3	1.5	32.9	0.0	0.0	0.0	39.7	2.8	49.6	0.0	0.0	0.0	885	3672	0	0	0	0	0	-2904
104+00.00	10400	50	23.2	1.5	33.4	0.0	0.0	0.0	41.2	2.8	61.4	0.0	0.0	0.0	927	3749	0	0	0	0	0	-2942
104+50.00	10450	50	22.7	1.5	25.5	0.0	0.0	0.0	42.5	2.8	54.6	0.0	0.0	0.0	969	3817	0	0	0	0	0	-2971
105+00.00	10500	50	26.4	1.5	14.4	0.0	0.0	0.0	45.5	2.8	37.0	0.0	0.0	0.0	1015	3864	0	0	0	0	0	-2974
105+50.00	10550	50	24.4	1.5	19.8	0.0	0.0	0.0	47.1	2.8	31.7	0.0	0.0	0.0	1062	3903	0	0	0	0	0	-2970
					STAGE 3 COLUMN SUBTOTALS (1 OF 4)				1062	128	3123	0	0	0								

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

STATION	REAL STATION	DISTANCE	AREA (SF)						INCREMENTAL VOL (CY) (UNADJUSTED)						CUMULATIVE VOL (CY)							MASS ORDINATE
			CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	EXPANDED ROCK	EXPANDED EBS BACKFILL	REDUCED MARSH IN FILL	REDUCED EBS IN FILL	
															1.00	1.25	1.50	1.10	1.00	0.60	0.80	
									NOTE 1	NOTE 2	NOTE 3				NOTE 1		NOTE 4		NOTE 5	NOTE 6	NOTE 7	NOTE 8
106+00.00	10600	50	23.3	1.5	22.9	0.0	0.0	0.0	44.2	2.8	39.6	0.0	0.0	0.0	1106	3953	0	0	0	0	0	-2978
106+50.00	10650	50	22.8	1.5	28.3	0.0	0.0	0.0	42.6	2.8	47.4	0.0	0.0	0.0	1148	4012	0	0	0	0	0	-2997
107+00.00	10700	50	20.4	1.5	30.4	0.0	0.0	0.0	39.9	2.8	54.3	0.0	0.0	0.0	1188	4080	0	0	0	0	0	-3028
107+50.00	10750	50	22.3	1.5	25.2	0.0	0.0	0.0	39.4	2.8	51.4	0.0	0.0	0.0	1228	4144	0	0	0	0	0	-3056
108+00.00	10800	50	25.5	1.5	15.0	0.0	0.0	0.0	44.2	2.8	37.2	0.0	0.0	0.0	1272	4191	0	0	0	0	0	-3061
108+50.00	10850	50	27.9	1.5	13.7	0.0	0.0	0.0	49.4	2.8	26.6	0.0	0.0	0.0	1321	4224	0	0	0	0	0	-3047
109+00.00	10900	50	24.6	1.5	14.7	0.0	0.0	0.0	48.6	2.8	26.3	0.0	0.0	0.0	1370	4257	0	0	0	0	0	-3034
109+50.00	10950	50	25.4	1.5	25.5	0.0	0.0	0.0	46.2	2.8	37.3	0.0	0.0	0.0	1416	4303	0	0	0	0	0	-3037
110+00.00	11000	50	12.0	1.5	37.9	0.0	0.0	0.0	34.6	2.8	58.7	0.0	0.0	0.0	1451	4377	0	0	0	0	0	-3079
110+50.00	11050	50	12.3	1.5	17.8	0.0	0.0	0.0	22.5	2.8	51.6	0.0	0.0	0.0	1473	4441	0	0	0	0	0	-3124
111+00.00	11100	50	13.5	1.5	7.0	0.0	0.0	0.0	23.9	2.8	23.0	0.0	0.0	0.0	1497	4470	0	0	0	0	0	-3131
111+50.00	11150	50	13.4	1.5	8.4	0.0	0.0	0.0	24.9	2.8	14.3	0.0	0.0	0.0	1522	4488	0	0	0	0	0	-3127
112+00.00	11200	50	11.6	1.5	19.0	0.0	0.0	0.0	23.1	2.8	25.4	0.0	0.0	0.0	1545	4520	0	0	0	0	0	-3138
112+50.00	11250	50	10.9	1.5	27.4	0.0	0.0	0.0	20.9	2.8	43.0	0.0	0.0	0.0	1566	4573	0	0	0	0	0	-3174
113+11.58	11311.583	62	681.5	1.5	51.3	0.0	0.0	0.0	789.7	3.4	89.8	0.0	0.0	0.0	2356	4686	0	0	0	0	0	-2500
113+50.00	11350	38	11.5	1.5	37.3	0.0	0.0	0.0	493.1	2.1	63.0	0.0	0.0	0.0	2849	4764	0	0	0	0	0	-2088
114+00.00	11400	50	12.2	1.5	33.7	0.0	0.0	0.0	22.0	2.8	65.8	0.0	0.0	0.0	2871	4847	0	0	0	0	0	-2151
114+50.00	11450	50	12.7	1.5	26.1	0.0	0.0	0.0	23.1	2.8	55.4	0.0	0.0	0.0	2894	4916	0	0	0	0	0	-2200
115+00.00	11500	50	13.0	1.5	23.3	0.0	0.0	0.0	23.8	2.8	45.8	0.0	0.0	0.0	2918	4973	0	0	0	0	0	-2236
115+50.00	11550	50	13.2	1.5	23.4	0.0	0.0	0.0	24.2	2.8	43.2	0.0	0.0	0.0	2942	5027	0	0	0	0	0	-2269
116+00.00	11600	50	12.8	1.5	19.2	0.0	0.0	0.0	24.0	2.8	39.4	0.0	0.0	0.0	2966	5076	0	0	0	0	0	-2297
116+50.00	11650	50	25.9	1.5	25.8	0.0	0.0	0.0	35.8	2.8	41.7	0.0	0.0	0.0	3002	5128	0	0	0	0	0	-2316
117+00.00	11700	50	13.4	1.5	11.4	0.0	0.0	0.0	36.4	2.8	34.5	0.0	0.0	0.0	3038	5172	0	0	0	0	0	-2325
117+50.00	11750	50	13.0	1.5	9.4	0.0	0.0	0.0	24.5	2.8	19.3	0.0	0.0	0.0	3063	5196	0	0	0	0	0	-2328
118+00.00	11800	50	12.5	1.5	12.1	0.0	0.0	0.0	23.6	2.8	19.9	0.0	0.0	0.0	3086	5221	0	0	0	0	0	-2332
118+50.00	11850	50	13.0	1.5	15.7	0.0	0.0	0.0	23.6	2.8	25.7	0.0	0.0	0.0	3110	5253	0	0	0	0	0	-2343
119+00.00	11900	50	13.5	1.5	3.6	0.0	0.0	0.0	24.6	2.8	17.9	0.0	0.0	0.0	3134	5275	0	0	0	0	0	-2344
119+50.00	11950	50	13.2	1.5	5.0	0.0	0.0	0.0	24.8	2.8	7.9	0.0	0.0	0.0	3159	5285	0	0	0	0	0	-2332
120+00.00	12000	50	12.1	1.5	3.1	0.0	0.0	0.0	23.4	2.8	7.5	0.0	0.0	0.0	3183	5294	0	0	0	0	0	-2320
120+50.00	12050	50	74.4	1.5	0.9	0.0	0.0	0.0	80.1	2.8	3.7	0.0	0.0	0.0	3263	5299	0	0	0	0	0	-2248
121+00.00	12100	50	14.8	1.5	8.8	0.0	0.0	0.0	82.6	2.8	9.0	0.0	0.0	0.0	3345	5310	0	0	0	0	0	-2179
121+50.00	12150	50	12.4	1.5	11.6	0.0	0.0	0.0	25.2	2.8	18.9	0.0	0.0	0.0	3371	5334	0	0	0	0	0	-2180
122+00.00	12200	50	13.2	1.5	9.5	0.0	0.0	0.0	23.7	2.8	19.5	0.0	0.0	0.0	3394	5358	0	0	0	0	0	-2184
122+50.00	12250	50	13.4	1.5	16.4	0.0	0.0	0.0	24.6	2.8	23.9	0.0	0.0	0.0	3419	5388	0	0	0	0	0	-2192
123+00.00	12300	50	13.0	1.5	9.4	0.0	0.0	0.0	24.4	2.8	23.8	0.0	0.0	0.0	3443	5418	0	0	0	0	0	-2200
123+50.00	12350	50	11.4	1.5	17.8	0.0	0.0	0.0	22.5	2.8	25.2	0.0	0.0	0.0	3466	5449	0	0	0	0	0	-2212
124+00.00	12400	50	11.5	1.5	24.1	0.0	0.0	0.0	21.2	2.8	38.8	0.0	0.0	0.0	3487	5498	0	0	0	0	0	-2242
124+50.00	12450	50	11.2	1.5	42.2	0.0	0.0	0.0	21.0	2.8	61.4	0.0	0.0	0.0	3508	5575	0	0	0	0	0	-2300
125+00.00	12500	50	10.3	1.5	74.9	0.0	0.0	0.0	19.8	2.8	108.5	0.0	0.0	0.0	3528	5710	0	0	0	0	0	-2419
125+50.00	12550	50	23.8	1.5	127.4	0.0	0.0	0.0	31.5	2.8	187.4	0.0	0.0	0.0	3559	5944	0	0	0	0	0	-2624
126+00.00	12600	50	9.9	1.5	17.7	0.0	0.0	0.0	31.1	2.8	134.4	0.0	0.0	0.0	3590	6112	0	0	0	0	0	-2764
126+50.00	12650	50	9.7	1.5	13.5	0.0	0.0	0.0	18.1	2.8	28.9	0.0	0.0	0.0	3609	6148	0	0	0	0	0	-2785
127+00.00	12700	50	8.7	1.5	27.4	0.0	0.0	0.0	17.0	2.8	37.9	0.0	0.0	0.0	3626	6196	0	0	0	0	0	-2818
127+50.00	12750	50	8.7	1.5	18.7	0.0	0.0	0.0	16.1	2.8	42.7	0.0	0.0	0.0	3642	6249	0	0	0	0	0	-2858
128+00.00	12800	50	19.3	1.5	17.7	0.0	0.0	0.0	25.9	2.8	33.7	0.0	0.0	0.0	3668	6291	0	0	0	0	0	-2877
128+50.00	12850	50	6.4	1.5	14.1	0.0	0.0	0.0	23.8	2.8	29.5	0.0	0.0	0.0	3691	6328	0	0	0	0	0	-2893
129+00.00	12900	50	6.3	1.5	13.7	0.0	0.0	0.0	11.7	2.8	25.7	0.0	0.0	0.0	3703	6360	0	0	0	0	0	-2916
129+50.00	12950	50	7.4	1.5	10.2	0.0	0.0	0.0	12.6	2.8	22.1	0.0	0.0	0.0	3716	6388	0	0	0	0	0	-2934
					STAGE 3 COLUMN SUBTOTALS (2 OF 4)				2654	133	1988	0	0	0								

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

STATION	REAL STATION	DISTANCE	AREA (SF)						INCREMENTAL VOL (CY) (UNADJUSTED)						CUMULATIVE VOL (CY)							MASS ORDINATE
			CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	EXPANDED ROCK	EXPANDED EBS BACKFILL	REDUCED MARSH IN FILL	REDUCED EBS IN FILL	
															1.00	1.25	1.50	1.10	1.00	0.60	0.80	
				NOTE 1					NOTE 1	NOTE 2	NOTE 3				NOTE 1		NOTE 4		NOTE 5	NOTE 6	NOTE 7	NOTE 8
130+00.00	13000	50	9.2	1.5	10.5	0.0	0.0	0.0	15.3	2.8	19.1	0.0	0.0	0.0	3731	6412	0	0	0	0	0	-2945
130+50.00	13050	50	10.7	1.5	7.1	0.0	0.0	0.0	18.4	2.8	16.3	0.0	0.0	0.0	3749	6432	0	0	0	0	0	-2950
131+00.00	13100	50	11.3	1.5	8.1	0.0	0.0	0.0	20.4	2.8	14.0	0.0	0.0	0.0	3770	6450	0	0	0	0	0	-2950
131+50.00	13150	50	10.3	1.5	12.1	0.0	0.0	0.0	20.0	2.8	18.7	0.0	0.0	0.0	3790	6473	0	0	0	0	0	-2956
132+00.00	13200	50	96.4	1.5	0.0	0.0	0.0	0.0	98.7	2.8	11.2	0.0	0.0	0.0	3888	6487	0	0	0	0	0	-2874
132+50.00	13250	50	14.0	1.5	7.6	0.0	0.0	0.0	102.2	2.8	7.0	0.0	0.0	0.0	3991	6496	0	0	0	0	0	-2783
133+00.00	13300	50	9.4	1.5	14.0	0.0	0.0	0.0	21.7	2.8	20.0	0.0	0.0	0.0	4012	6521	0	0	0	0	0	-2789
133+50.00	13350	50	9.4	1.5	15.3	0.0	0.0	0.0	17.4	2.8	27.2	0.0	0.0	0.0	4030	6555	0	0	0	0	0	-2809
134+00.00	13400	50	9.6	1.5	25.7	0.0	0.0	0.0	17.6	2.8	38.0	0.0	0.0	0.0	4047	6602	0	0	0	0	0	-2841
134+50.00	13450	50	9.3	1.5	40.1	0.0	0.0	0.0	17.6	2.8	61.0	0.0	0.0	0.0	4065	6679	0	0	0	0	0	-2903
135+00.00	13500	50	9.5	1.5	32.5	0.0	0.0	0.0	17.4	2.8	67.3	0.0	0.0	0.0	4082	6763	0	0	0	0	0	-2972
135+50.00	13550	50	6.8	1.5	62.9	0.0	0.0	0.0	15.1	2.8	88.4	0.0	0.0	0.0	4097	6873	0	0	0	0	0	-3070
136+00.00	13600	50	6.0	1.5	79.0	0.0	0.0	0.0	11.9	2.8	131.4	0.0	0.0	0.0	4109	7037	0	0	0	0	0	-3226
136+50.00	13650	50	22.8	1.5	60.4	0.0	0.0	0.0	26.6	2.8	129.1	0.0	0.0	0.0	4136	7199	0	0	0	0	0	-3363
137+00.00	13700	50	6.5	1.5	52.1	0.0	0.0	0.0	27.1	2.8	104.2	0.0	0.0	0.0	4163	7329	0	0	0	0	0	-3469
137+50.00	13750	50	7.3	1.5	46.5	0.0	0.0	0.0	12.8	2.8	91.3	0.0	0.0	0.0	4176	7443	0	0	0	0	0	-3573
138+00.00	13800	50	6.5	1.5	44.6	0.0	0.0	0.0	12.7	2.8	84.4	0.0	0.0	0.0	4189	7549	0	0	0	0	0	-3669
138+50.00	13850	50	6.1	1.5	44.6	0.0	0.0	0.0	11.6	2.8	82.5	0.0	0.0	0.0	4200	7652	0	0	0	0	0	-3763
139+00.00	13900	50	4.1	1.5	64.6	0.0	0.0	0.0	9.4	2.8	101.1	0.0	0.0	0.0	4210	7778	0	0	0	0	0	-3883
139+50.00	13950	50	2.0	1.5	65.4	0.0	0.0	0.0	5.6	2.8	120.3	0.0	0.0	0.0	4215	7929	0	0	0	0	0	-4030
140+00.00	14000	50	53.0	1.5	0.0	0.0	0.0	0.0	50.9	2.8	60.5	0.0	0.0	0.0	4266	8004	0	0	0	0	0	-4058
140+50.00	14050	50	10.4	1.5	19.4	0.0	0.0	0.0	58.7	2.8	17.9	0.0	0.0	0.0	4325	8027	0	0	0	0	0	-4024
141+00.00	14100	50	5.2	1.5	5.8	0.0	0.0	0.0	14.5	2.8	23.3	0.0	0.0	0.0	4339	8056	0	0	0	0	0	-4042
141+50.00	14150	50	10.8	1.5	3.6	0.0	0.0	0.0	14.9	2.8	8.7	0.0	0.0	0.0	4354	8067	0	0	0	0	0	-4041
142+00.00	14200	50	11.0	1.5	4.9	0.0	0.0	0.0	20.2	2.8	7.8	0.0	0.0	0.0	4374	8076	0	0	0	0	0	-4033
142+50.00	14250	50	11.4	1.5	2.8	0.0	0.0	0.0	20.7	2.8	7.1	0.0	0.0	0.0	4395	8085	0	0	0	0	0	-4024
143+00.00	14300	50	19.6	1.5	2.1	0.0	0.0	0.0	28.7	2.8	4.6	0.0	0.0	0.0	4424	8091	0	0	0	0	0	-4004
143+50.00	14350	50	12.2	1.5	2.7	0.0	0.0	0.0	29.5	2.8	4.5	0.0	0.0	0.0	4453	8096	0	0	0	0	0	-3983
144+00.00	14400	50	8.8	1.5	8.4	0.0	0.0	0.0	19.5	2.8	10.3	0.0	0.0	0.0	4473	8109	0	0	0	0	0	-3979
144+50.00	14450	50	9.2	1.5	11.7	0.0	0.0	0.0	16.6	2.8	18.6	0.0	0.0	0.0	4489	8133	0	0	0	0	0	-3988
145+00.00	14500	50	9.7	1.5	11.0	0.0	0.0	0.0	17.5	2.8	21.0	0.0	0.0	0.0	4507	8159	0	0	0	0	0	-4000
145+50.00	14550	50	7.7	1.5	20.1	0.0	0.0	0.0	16.1	2.8	28.9	0.0	0.0	0.0	4523	8195	0	0	0	0	0	-4022
146+00.00	14600	50	7.8	1.5	14.6	0.0	0.0	40.0	14.3	2.8	32.2	0.0	0.0	37.0	4537	8198	0	0	37	0	30	-4014
146+50.00	14650	50	8.9	1.5	6.0	0.0	0.0	40.0	15.5	2.8	19.1	0.0	0.0	74.1	4553	8148	0	0	111	0	89	-3951
147+00.00	14700	50	103.7	1.5	0.0	0.0	0.0	40.0	104.2	2.8	5.6	0.0	0.0	74.1	4657	8081	0	0	185	0	148	-3783
147+50.00	14750	50	45.1	1.5	1.0	0.0	0.0	40.0	137.7	2.8	0.9	0.0	0.0	74.1	4795	8008	0	0	259	0	207	-3575
148+00.00	14800	50	26.6	1.5	7.6	0.0	0.0	40.0	66.3	2.8	8.0	0.0	0.0	74.1	4861	7944	0	0	333	0	267	-3447
148+50.00	14850	50	29.0	1.5	7.1	0.0	0.0	40.0	51.4	2.8	13.6	0.0	0.0	74.1	4912	7887	0	0	407	0	326	-3341
149+00.00	14900	50	32.9	1.5	3.1	0.0	0.0	40.0	57.3	2.8	9.4	0.0	0.0	74.1	4970	7825	0	0	481	0	385	-3225
149+50.00	14950	50	34.2	1.5	8.9	0.0	0.0	40.0	62.1	2.8	11.1	0.0	0.0	74.1	5032	7764	0	0	556	0	444	-3105
150+00.00	15000	50	28.0	1.5	6.7	0.0	0.0	40.0	57.6	2.8	14.5	0.0	0.0	74.1	5089	7708	0	0	630	0	504	-2994
150+50.00	15050	50	25.1	1.5	15.3	0.0	0.0	40.0	49.1	2.8	20.3	0.0	0.0	74.1	5138	7660	0	0	704	0	563	-2899
151+00.00	15100	50	24.5	1.5	20.5	0.0	0.0	40.0	45.9	2.8	33.1	0.0	0.0	74.1	5184	7627	0	0	778	0	622	-2824
151+56.90	15156.902	57	98.8	1.5	17.7	0.0	0.0	40.0	130.0	3.2	40.2	0.0	0.0	84.3	5314	7593	0	0	862	0	690	-2663
152+00.00	15200	43	24.5	1.5	10.6	0.0	0.0	40.0	98.4	2.4	22.5	0.0	0.0	63.8	5413	7557	0	0	926	0	741	-2531
152+50.00	15250	50	22.6	1.5	4.5	0.0	0.0	40.0	43.6	2.8	14.0	0.0	0.0	74.1	5456	7501	0	0	1000	0	800	-2434
153+00.00	15300	50	15.0	1.5	2.9	0.0	0.0	40.0	34.8	2.8	6.9	0.0	0.0	74.1	5491	7435	0	0	1074	0	859	-2336
153+50.00	15350	50	6.8	1.5	16.3	0.0	0.0	40.0	20.1	2.8	17.8	0.0	0.0	74.1	5511	7383	0	0	1148	0	919	-2267
				STAGE 1 & 3 COLUMN SUBTOTALS (3 OF 4)					1795	133	1715	0	0	1148								

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

STATION	REAL STATION	DISTANCE	AREA (SF)						INCREMENTAL VOL (CY) (UNADJUSTED)						CUMULATIVE VOL (CY)							MASS ORDINATE
			CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	EXPANDED ROCK	EXPANDED EBS BACKFILL	REDUCED MARSH IN FILL	REDUCED EBS IN FILL	
									NOTE 1	NOTE 2	NOTE 3				1.00 NOTE 1	1.25	1.50 NOTE 4	1.10	1.00 NOTE 5	0.60 NOTE 6	0.80 NOTE 7	NOTE 8
154+00.00	15400	50	4.6	1.5	23.0	0.0	0.0	40.0	10.5	2.8	36.4	0.0	0.0	74.1	5522	7355	0	0	1222	0	978	-2230
154+50.00	15450	50	7.4	1.5	16.9	0.0	0.0	40.0	11.1	2.8	36.9	0.0	0.0	74.1	5533	7327	0	0	1296	0	1037	-2194
155+00.00	15500	50	13.4	1.5	17.2	0.0	0.0	40.0	19.2	2.8	31.6	0.0	0.0	74.1	5552	7292	0	0	1370	0	1096	-2143
155+50.00	15550	50	19.2	1.5	17.2	0.0	0.0	40.0	30.2	2.8	31.8	0.0	0.0	74.1	5582	7258	0	0	1444	0	1156	-2081
								STAGE 1 & 3 COLUMN SUBTOTALS (4 OF 4)	71	11	137	0	0	296								
								STAGE 1 & 3 COLUMN TOTALS	5582	406	6962	0	0	1444								

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ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

STATION	REAL STATION	DISTANCE	AREA (SF)						INCREMENTAL VOL (CY) (UNADJUSTED)						CUMULATIVE VOL (CY)							MASS ORDINATE
			CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	EXPANDED ROCK	EXPANDED EBS BACKFILL	REDUCED MARSH IN FILL	REDUCED EBS IN FILL	
															1.00	1.25	1.50	1.10	1.00	0.60	0.80	
									NOTE 1	NOTE 2	NOTE 3				NOTE 1		NOTE 4		NOTE 5	NOTE 6	NOTE 7	NOTE 8
82+45.00	8245	---	11.4	1.5	41.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
82+50.00	8250	5	11.2	1.5	38.9	0.0	0.0	0.0	2.1	0.3	7.4	0.0	0.0	0.0	2	9	0	0	0	0	0	-7
83+00.00	8300	50	8.8	1.5	37.1	0.0	0.0	0.0	18.5	2.8	70.4	0.0	0.0	0.0	21	97	0	0	0	0	0	-80
83+50.00	8350	50	9.3	1.5	27.8	0.0	0.0	0.0	16.8	2.8	60.1	0.0	0.0	0.0	37	172	0	0	0	0	0	-141
84+00.00	8400	50	9.0	1.5	22.6	0.0	0.0	0.0	17.0	2.8	46.6	0.0	0.0	0.0	54	231	0	0	0	0	0	-185
84+50.00	8450	50	9.8	1.5	13.8	0.0	0.0	0.0	17.5	2.8	33.7	0.0	0.0	0.0	72	273	0	0	0	0	0	-212
85+00.00	8500	50	10.3	1.5	3.4	0.0	0.0	0.0	18.6	2.8	15.9	0.0	0.0	0.0	90	293	0	0	0	0	0	-216
85+50.00	8550	50	9.8	1.5	17.7	0.0	0.0	0.0	18.6	2.8	19.5	0.0	0.0	0.0	109	317	0	0	0	0	0	-225
86+00.00	8600	50	10.7	1.5	16.6	0.0	0.0	0.0	19.0	2.8	31.7	0.0	0.0	0.0	128	357	0	0	0	0	0	-248
86+50.00	8650	50	13.0	1.5	11.5	0.0	0.0	0.0	21.9	2.8	26.0	0.0	0.0	0.0	150	389	0	0	0	0	0	-262
87+00.00	8700	50	14.1	1.5	9.4	0.0	0.0	0.0	25.1	2.8	19.4	0.0	0.0	0.0	175	414	0	0	0	0	0	-264
87+50.00	8750	50	11.7	1.5	13.9	0.0	0.0	0.0	23.9	2.8	21.6	0.0	0.0	0.0	199	440	0	0	0	0	0	-270
88+00.00	8800	50	9.3	1.5	27.3	0.0	0.0	0.0	19.4	2.8	38.1	0.0	0.0	0.0	218	488	0	0	0	0	0	-301
88+50.00	8850	50	24.6	1.5	25.7	0.0	0.0	0.0	31.4	2.8	49.1	0.0	0.0	0.0	250	549	0	0	0	0	0	-333
89+00.00	8900	50	10.1	1.5	25.7	0.0	0.0	0.0	32.1	2.8	47.6	0.0	0.0	0.0	282	609	0	0	0	0	0	-364
89+50.00	8950	50	10.1	1.5	19.5	0.0	0.0	0.0	18.7	2.8	41.8	0.0	0.0	0.0	301	661	0	0	0	0	0	-400
90+00.00	9000	50	17.5	1.5	9.4	0.0	0.0	0.0	25.6	2.8	26.7	0.0	0.0	0.0	326	695	0	0	0	0	0	-410
90+50.00	9050	50	12.9	1.5	12.0	0.0	0.0	0.0	28.2	2.8	19.8	0.0	0.0	0.0	354	719	0	0	0	0	0	-410
91+00.00	9100	50	15.3	1.5	12.2	0.0	0.0	0.0	26.1	2.8	22.3	0.0	0.0	0.0	380	747	0	0	0	0	0	-414
91+50.00	9150	50	10.0	1.5	30.5	0.0	0.0	0.0	23.3	2.8	39.5	0.0	0.0	0.0	404	797	0	0	0	0	0	-443
92+00.00	9200	50	10.1	1.5	23.8	0.0	0.0	0.0	18.6	2.8	50.2	0.0	0.0	0.0	422	859	0	0	0	0	0	-490
92+50.00	9250	50	11.5	1.5	18.5	0.0	0.0	0.0	20.0	2.8	39.2	0.0	0.0	0.0	442	908	0	0	0	0	0	-522
93+00.00	9300	50	6.6	1.5	38.7	0.0	0.0	0.0	16.7	2.8	53.0	0.0	0.0	0.0	459	975	0	0	0	0	0	-574
93+50.00	9350	50	5.2	1.5	39.8	0.0	0.0	0.0	10.9	2.8	72.7	0.0	0.0	0.0	470	1066	0	0	0	0	0	-657
94+00.00	9400	50	5.1	1.5	32.8	0.0	0.0	0.0	9.5	2.8	67.3	0.0	0.0	0.0	479	1150	0	0	0	0	0	-734
94+50.00	9450	50	6.9	1.5	14.1	0.0	0.0	0.0	11.1	2.8	43.5	0.0	0.0	0.0	490	1204	0	0	0	0	0	-780
95+00.00	9500	50	29.6	1.5	0.0	0.0	0.0	0.0	33.7	2.8	13.1	0.0	0.0	0.0	524	1220	0	0	0	0	0	-766
95+50.00	9550	50	9.9	1.5	15.5	0.0	0.0	0.0	36.6	2.8	14.3	0.0	0.0	0.0	561	1238	0	0	0	0	0	-750
96+00.00	9600	50	11.2	1.5	12.2	0.0	0.0	0.0	19.5	2.8	25.6	0.0	0.0	0.0	580	1270	0	0	0	0	0	-765
96+50.00	9650	50	10.0	1.5	14.4	0.0	0.0	0.0	19.6	2.8	24.5	0.0	0.0	0.0	600	1301	0	0	0	0	0	-779
97+00.00	9700	50	10.4	1.5	16.1	0.0	0.0	0.0	18.9	2.8	28.2	0.0	0.0	0.0	619	1336	0	0	0	0	0	-798
97+50.00	9750	50	9.5	1.5	21.4	0.0	0.0	0.0	18.5	2.8	34.7	0.0	0.0	0.0	637	1379	0	0	0	0	0	-826
98+00.00	9800	50	8.8	1.5	22.4	0.0	0.0	0.0	17.0	2.8	40.5	0.0	0.0	0.0	654	1430	0	0	0	0	0	-862
98+50.00	9850	50	8.4	1.5	25.0	0.0	0.0	0.0	15.9	2.8	43.9	0.0	0.0	0.0	670	1485	0	0	0	0	0	-904
99+00.00	9900	50	6.4	1.5	31.5	0.0	0.0	0.0	13.6	2.8	52.3	0.0	0.0	0.0	684	1550	0	0	0	0	0	-959
99+50.00	9950	50	7.6	1.5	37.4	0.0	0.0	0.0	13.0	2.8	63.8	0.0	0.0	0.0	697	1630	0	0	0	0	0	-1028
100+00.00	10000	50	7.7	1.5	36.5	0.0	0.0	0.0	14.2	2.8	68.4	0.0	0.0	0.0	711	1716	0	0	0	0	0	-1102
100+50.00	10050	50	7.8	1.5	39.2	0.0	0.0	0.0	14.3	2.8	70.1	0.0	0.0	0.0	725	1803	0	0	0	0	0	-1178
101+00.00	10100	50	8.2	1.5	38.1	0.0	0.0	0.0	14.8	2.8	71.6	0.0	0.0	0.0	740	1893	0	0	0	0	0	-1256
101+50.00	10150	50	9.1	1.5	22.9	0.0	0.0	0.0	16.0	2.8	56.4	0.0	0.0	0.0	756	1963	0	0	0	0	0	-1313
102+00.00	10200	50	9.2	1.5	21.5	0.0	0.0	0.0	16.9	2.8	41.1	0.0	0.0	0.0	773	2015	0	0	0	0	0	-1350
102+50.00	10250	50	9.0	1.5	11.8	0.0	0.0	0.0	16.8	2.8	30.8	0.0	0.0	0.0	790	2053	0	0	0	0	0	-1375
103+00.00	10300	50	359.6	1.5	0.0	0.0	0.0	0.0	341.3	2.8	10.9	0.0	0.0	0.0	1131	2067	0	0	0	0	0	-1050
103+50.00	10350	50	9.8	1.5	23.3	0.0	0.0	0.0	342.1	2.8	21.5	0.0	0.0	0.0	1473	2094	0	0	0	0	0	-738
104+00.00	10400	50	9.0	1.5	25.1	0.0	0.0	0.0	17.4	2.8	44.7	0.0	0.0	0.0	1490	2150	0	0	0	0	0	-779
104+50.00	10450	50	8.9	1.5	22.2	0.0	0.0	0.0	16.6	2.8	43.7	0.0	0.0	0.0	1507	2204	0	0	0	0	0	-820
105+00.00	10500	50	10.0	1.5	18.7	0.0	0.0	0.0	17.4	2.8	37.8	0.0	0.0	0.0	1524	2252	0	0	0	0	0	-852
105+50.00	10550	50	25.5	1.5	14.4	0.0	0.0	0.0	32.8	2.8	30.6	0.0	0.0	0.0	1557	2290	0	0	0	0	0	-861
								STAGE 4 COLUMN SUBTOTALS (1 OF 4)	1557	128	1832	0	0	0								

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

STATION	REAL STATION	DISTANCE	AREA (SF)						INCREMENTAL VOL (CY) (UNADJUSTED)						CUMULATIVE VOL (CY)							MASS ORDINATE
			CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	EXPANDED ROCK	EXPANDED EBS BACKFILL	REDUCED MARSH IN FILL	REDUCED EBS IN FILL	
															1.00	1.25	1.50	1.10	1.00	0.60	0.80	
									NOTE 1	NOTE 2	NOTE 3				NOTE 1		NOTE 4		NOTE 5	NOTE 6	NOTE 7	NOTE 8
106+00.00	10600	50	9.6	1.5	11.5	0.0	0.0	0.0	32.5	2.8	24.0	0.0	0.0	0.0	1590	2320	0	0	0	0	0	-861
106+50.00	10650	50	7.6	1.5	13.3	0.0	0.0	0.0	15.9	2.8	23.0	0.0	0.0	0.0	1606	2349	0	0	0	0	0	-876
107+00.00	10700	50	16.4	1.5	0.0	0.0	0.0	0.0	22.2	2.8	12.3	0.0	0.0	0.0	1628	2364	0	0	0	0	0	-872
107+50.00	10750	50	7.9	1.5	9.8	0.0	0.0	0.0	22.5	2.8	9.1	0.0	0.0	0.0	1650	2375	0	0	0	0	0	-864
108+00.00	10800	50	26.8	1.5	9.8	0.0	0.0	0.0	32.1	2.8	18.1	0.0	0.0	0.0	1683	2398	0	0	0	0	0	-857
108+50.00	10850	50	12.1	1.5	8.6	0.0	0.0	0.0	36.0	2.8	17.0	0.0	0.0	0.0	1719	2419	0	0	0	0	0	-845
109+00.00	10900	50	11.9	1.5	7.4	0.0	0.0	0.0	22.3	2.8	14.8	0.0	0.0	0.0	1741	2438	0	0	0	0	0	-844
109+50.00	10950	50	12.1	1.5	3.0	0.0	0.0	0.0	22.2	2.8	9.6	0.0	0.0	0.0	1763	2450	0	0	0	0	0	-837
110+00.00	11000	50	15.5	1.5	0.1	0.0	0.0	0.0	25.5	2.8	2.8	0.0	0.0	0.0	1789	2453	0	0	0	0	0	-818
110+50.00	11050	50	16.1	1.5	0.6	0.0	0.0	0.0	29.3	2.8	0.7	0.0	0.0	0.0	1818	2454	0	0	0	0	0	-792
111+00.00	11100	50	14.7	1.5	0.4	0.0	0.0	0.0	28.5	2.8	0.9	0.0	0.0	0.0	1846	2455	0	0	0	0	0	-768
111+50.00	11150	50	13.5	1.5	2.9	0.0	0.0	0.0	26.1	2.8	3.0	0.0	0.0	0.0	1872	2459	0	0	0	0	0	-748
112+00.00	11200	50	85.7	1.5	4.0	0.0	0.0	0.0	91.9	2.8	6.4	0.0	0.0	0.0	1964	2467	0	0	0	0	0	-667
112+50.00	11250	50	22.7	1.5	0.2	0.0	0.0	0.0	100.3	2.8	3.9	0.0	0.0	0.0	2065	2472	0	0	0	0	0	-574
113+00.00	11300	50	11.0	1.5	10.0	0.0	0.0	0.0	31.1	2.8	9.4	0.0	0.0	0.0	2096	2484	0	0	0	0	0	-558
113+50.00	11350	50	9.8	1.5	11.6	0.0	0.0	0.0	19.2	2.8	20.0	0.0	0.0	0.0	2115	2509	0	0	0	0	0	-566
114+00.00	11400	50	12.2	1.5	3.9	0.0	0.0	0.0	20.3	2.8	14.3	0.0	0.0	0.0	2135	2526	0	0	0	0	0	-567
114+50.00	11450	50	13.2	1.5	2.7	0.0	0.0	0.0	23.5	2.8	6.1	0.0	0.0	0.0	2159	2534	0	0	0	0	0	-553
115+00.00	11500	50	13.1	1.5	1.0	0.0	0.0	0.0	24.4	2.8	3.4	0.0	0.0	0.0	2183	2538	0	0	0	0	0	-536
115+50.00	11550	50	12.4	1.5	2.4	0.0	0.0	0.0	23.7	2.8	3.1	0.0	0.0	0.0	2207	2542	0	0	0	0	0	-519
116+00.00	11600	50	9.9	1.5	2.0	0.0	0.0	0.0	20.7	2.8	4.0	0.0	0.0	0.0	2227	2547	0	0	0	0	0	-506
116+50.00	11650	50	22.2	1.5	6.5	0.0	0.0	0.0	29.7	2.8	7.8	0.0	0.0	0.0	2257	2557	0	0	0	0	0	-489
117+00.00	11700	50	12.5	1.5	0.5	0.0	0.0	0.0	32.1	2.8	6.4	0.0	0.0	0.0	2289	2565	0	0	0	0	0	-468
117+50.00	11750	50	12.4	1.5	0.8	0.0	0.0	0.0	23.0	2.8	1.2	0.0	0.0	0.0	2312	2567	0	0	0	0	0	-449
118+00.00	11800	50	13.5	1.5	0.6	0.0	0.0	0.0	24.0	2.8	1.3	0.0	0.0	0.0	2336	2568	0	0	0	0	0	-429
118+50.00	11850	50	14.8	1.5	0.3	0.0	0.0	0.0	26.3	2.8	0.8	0.0	0.0	0.0	2363	2569	0	0	0	0	0	-407
119+00.00	11900	50	23.7	1.5	0.0	0.0	0.0	0.0	35.6	2.8	0.3	0.0	0.0	0.0	2398	2570	0	0	0	0	0	-374
119+50.00	11950	50	14.2	1.5	0.3	0.0	0.0	0.0	35.1	2.8	0.3	0.0	0.0	0.0	2433	2570	0	0	0	0	0	-342
120+00.00	12000	50	11.0	1.5	1.0	0.0	0.0	0.0	23.4	2.8	1.2	0.0	0.0	0.0	2457	2571	0	0	0	0	0	-323
120+50.00	12050	50	11.3	1.5	1.6	0.0	0.0	0.0	20.7	2.8	2.4	0.0	0.0	0.0	2477	2574	0	0	0	0	0	-308
121+00.00	12100	50	10.0	1.5	1.9	0.0	0.0	0.0	19.7	2.8	3.2	0.0	0.0	0.0	2497	2578	0	0	0	0	0	-296
121+50.00	12150	50	0.0	1.5	0.0	0.0	0.0	0.0	9.3	2.8	1.7	0.0	0.0	0.0	2506	2581	0	0	0	0	0	-291
122+00.00	12200	50	0.0	1.5	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	2506	2581	0	0	0	0	0	-294
122+50.00	12250	50	0.0	1.5	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	2506	2581	0	0	0	0	0	-297
123+00.00	12300	50	0.0	1.5	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	2506	2581	0	0	0	0	0	-300
123+50.00	12350	50	0.0	1.5	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	2506	2581	0	0	0	0	0	-302
124+00.00	12400	50	0.0	1.5	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	2506	2581	0	0	0	0	0	-305
124+50.00	12450	50	0.0	1.5	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	2506	2581	0	0	0	0	0	-308
125+00.00	12500	50	0.0	1.5	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	2506	2581	0	0	0	0	0	-311
125+50.00	12550	50	17.8	1.5	0.7	0.0	0.0	0.0	16.5	2.8	0.7	0.0	0.0	0.0	2523	2581	0	0	0	0	0	-298
126+00.00	12600	50	8.6	1.5	0.5	0.0	0.0	0.0	24.5	2.8	1.1	0.0	0.0	0.0	2547	2583	0	0	0	0	0	-278
126+50.00	12650	50	8.1	1.5	0.3	0.0	0.0	0.0	15.5	2.8	0.8	0.0	0.0	0.0	2563	2584	0	0	0	0	0	-266
127+00.00	12700	50	9.9	1.5	16.5	0.0	0.0	0.0	16.6	2.8	15.6	0.0	0.0	0.0	2579	2603	0	0	0	0	0	-271
127+50.00	12750	50	6.9	1.5	19.2	0.0	0.0	0.0	15.6	2.8	33.1	0.0	0.0	0.0	2595	2645	0	0	0	0	0	-300
128+00.00	12800	50	17.6	1.5	25.4	0.0	0.0	0.0	22.7	2.8	41.3	0.0	0.0	0.0	2618	2696	0	0	0	0	0	-332
128+50.00	12850	50	5.6	1.5	15.6	0.0	0.0	0.0	21.4	2.8	37.9	0.0	0.0	0.0	2639	2744	0	0	0	0	0	-360
129+00.00	12900	50	5.5	1.5	15.4	0.0	0.0	0.0	10.2	2.8	28.6	0.0	0.0	0.0	2649	2779	0	0	0	0	0	-389
129+50.00	12950	50	4.8	1.5	11.2	0.0	0.0	0.0	9.5	2.8	24.6	0.0	0.0	0.0	2659	2810	0	0	0	0	0	-413
					STAGE 4 COLUMN SUBTOTALS (2 OF 4)				1101	133	416	0	0	0								

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

STATION	REAL STATION	DISTANCE	AREA (SF)						INCREMENTAL VOL (CY) (UNADJUSTED)						CUMULATIVE VOL (CY)							MASS ORDINATE
			CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	EXPANDED ROCK	EXPANDED EBS BACKFILL	REDUCED MARSH IN FILL	REDUCED EBS IN FILL	
															1.00	1.25	1.50	1.10	1.00	0.60	0.80	
									NOTE 1	NOTE 2	NOTE 3				NOTE 1		NOTE 4		NOTE 5	NOTE 6	NOTE 7	NOTE 8
130+00.00	13000	50	65.0	1.5	0.0	0.0	0.0	0.0	64.6	2.8	10.3	0.0	0.0	0.0	2723	2823	0	0	0	0	0	-364
130+50.00	13050	50	13.5	1.5	7.8	0.0	0.0	0.0	72.7	2.8	7.2	0.0	0.0	0.0	2796	2832	0	0	0	0	0	-303
131+00.00	13100	50	13.1	1.5	1.9	0.0	0.0	0.0	24.6	2.8	9.0	0.0	0.0	0.0	2821	2843	0	0	0	0	0	-292
131+50.00	13150	50	13.5	1.5	1.8	0.0	0.0	0.0	24.7	2.8	3.4	0.0	0.0	0.0	2845	2848	0	0	0	0	0	-275
132+00.00	13200	50	77.4	1.5	0.0	0.0	0.0	0.0	84.2	2.8	1.6	0.0	0.0	0.0	2930	2850	0	0	0	0	0	-195
132+50.00	13250	50	12.7	1.5	11.6	0.0	0.0	0.0	83.4	2.8	10.7	0.0	0.0	0.0	3013	2863	0	0	0	0	0	-128
133+00.00	13300	50	12.0	1.5	5.3	0.0	0.0	0.0	22.8	2.8	15.6	0.0	0.0	0.0	3036	2882	0	0	0	0	0	-128
133+50.00	13350	50	11.6	1.5	4.1	0.0	0.0	0.0	21.8	2.8	8.6	0.0	0.0	0.0	3058	2893	0	0	0	0	0	-119
134+00.00	13400	50	16.5	1.5	2.8	0.0	0.0	0.0	26.0	2.8	6.3	0.0	0.0	0.0	3084	2901	0	0	0	0	0	-104
134+50.00	13450	50	19.7	1.5	1.2	0.0	0.0	0.0	33.4	2.8	3.7	0.0	0.0	0.0	3117	2906	0	0	0	0	0	-78
135+00.00	13500	50	20.1	1.5	0.8	0.0	0.0	0.0	36.8	2.8	1.9	0.0	0.0	0.0	3154	2908	0	0	0	0	0	-46
135+50.00	13550	50	13.2	1.5	3.7	0.0	0.0	0.0	30.8	2.8	4.2	0.0	0.0	0.0	3185	2913	0	0	0	0	0	-24
136+00.00	13600	50	8.7	1.5	15.0	0.0	0.0	0.0	20.2	2.8	17.4	0.0	0.0	0.0	3205	2935	0	0	0	0	0	-28
136+50.00	13650	50	22.9	1.5	28.1	0.0	0.0	0.0	29.3	2.8	39.9	0.0	0.0	0.0	3234	2985	0	0	0	0	0	-51
137+00.00	13700	50	7.0	1.5	25.9	0.0	0.0	0.0	27.7	2.8	50.0	0.0	0.0	0.0	3262	3047	0	0	0	0	0	-89
137+50.00	13750	50	6.8	1.5	15.2	0.0	0.0	0.0	12.7	2.8	38.0	0.0	0.0	0.0	3274	3095	0	0	0	0	0	-126
138+00.00	13800	50	9.5	1.5	8.3	0.0	0.0	0.0	15.1	2.8	21.7	0.0	0.0	0.0	3290	3122	0	0	0	0	0	-141
138+50.00	13850	50	7.1	1.5	6.3	0.0	0.0	0.0	15.4	2.8	13.5	0.0	0.0	0.0	3305	3139	0	0	0	0	0	-146
139+00.00	13900	50	5.7	1.5	9.1	0.0	0.0	0.0	11.8	2.8	14.2	0.0	0.0	0.0	3317	3157	0	0	0	0	0	-154
139+50.00	13950	50	7.9	1.5	8.8	0.0	0.0	0.0	12.6	2.8	16.6	0.0	0.0	0.0	3329	3177	0	0	0	0	0	-165
140+00.00	14000	50	5.0	1.5	7.7	0.0	0.0	0.0	12.0	2.8	15.4	0.0	0.0	0.0	3341	3197	0	0	0	0	0	-175
140+50.00	14050	50	5.0	1.5	13.0	0.0	0.0	0.0	9.2	2.8	19.2	0.0	0.0	0.0	3351	3221	0	0	0	0	0	-193
141+00.00	14100	50	5.0	1.5	13.8	0.0	0.0	0.0	9.2	2.8	24.8	0.0	0.0	0.0	3360	3252	0	0	0	0	0	-217
141+50.00	14150	50	6.2	1.5	24.1	0.0	0.0	0.0	10.3	2.8	35.1	0.0	0.0	0.0	3370	3296	0	0	0	0	0	-253
142+00.00	14200	50	17.3	1.5	3.8	0.0	0.0	0.0	21.7	2.8	25.8	0.0	0.0	0.0	3392	3328	0	0	0	0	0	-267
142+50.00	14250	50	14.1	1.5	1.0	0.0	0.0	0.0	29.1	2.8	4.4	0.0	0.0	0.0	3421	3333	0	0	0	0	0	-246
143+00.00	14300	50	19.1	1.5	0.5	0.0	0.0	0.0	30.8	2.8	1.4	0.0	0.0	0.0	3452	3335	0	0	0	0	0	-220
143+50.00	14350	50	12.8	1.5	2.8	0.0	0.0	0.0	29.6	2.8	3.0	0.0	0.0	0.0	3481	3339	0	0	0	0	0	-197
144+00.00	14400	50	8.3	1.5	8.2	0.0	0.0	0.0	19.5	2.8	10.1	0.0	0.0	0.0	3501	3351	0	0	0	0	0	-193
144+50.00	14450	50	10.5	1.5	3.5	0.0	0.0	0.0	17.3	2.8	10.8	0.0	0.0	0.0	3518	3365	0	0	0	0	0	-191
145+00.00	14500	50	8.5	1.5	6.0	0.0	0.0	0.0	17.5	2.8	8.8	0.0	0.0	0.0	3536	3376	0	0	0	0	0	-188
145+50.00	14550	50	10.4	1.5	4.4	0.0	0.0	0.0	17.4	2.8	9.6	0.0	0.0	0.0	3553	3388	0	0	0	0	0	-185
146+00.00	14600	50	10.7	1.5	3.5	0.0	0.0	40.0	19.5	2.8	7.3	0.0	0.0	37.0	3573	3360	0	0	37	0	30	-140
146+50.00	14650	50	8.5	1.5	3.7	0.0	0.0	40.0	17.7	2.8	6.6	0.0	0.0	74.1	3590	3294	0	0	111	0	89	-60
147+00.00	14700	50	17.8	1.5	8.4	0.0	0.0	40.0	24.3	2.8	11.1	0.0	0.0	74.1	3615	3234	0	0	185	0	148	22
147+50.00	14750	50	19.6	1.5	3.3	0.0	0.0	40.0	34.6	2.8	10.8	0.0	0.0	74.1	3649	3173	0	0	259	0	207	115
148+00.00	14800	50	16.4	1.5	21.8	0.0	0.0	40.0	33.4	2.8	23.2	0.0	0.0	74.1	3683	3128	0	0	333	0	267	190
148+50.00	14850	50	15.3	1.5	10.5	0.0	0.0	40.0	29.4	2.8	29.9	0.0	0.0	74.1	3712	3092	0	0	407	0	326	254
149+00.00	14900	50	15.8	1.5	15.5	0.0	0.0	40.0	28.8	2.8	24.1	0.0	0.0	74.1	3741	3048	0	0	481	0	385	324
149+50.00	14950	50	11.1	1.5	27.9	0.0	0.0	40.0	24.9	2.8	40.1	0.0	0.0	74.1	3766	3024	0	0	556	0	444	370
150+00.00	15000	50	9.6	1.5	33.7	0.0	0.0	40.0	19.2	2.8	57.1	0.0	0.0	74.1	3785	3021	0	0	630	0	504	389
150+50.00	15050	50	12.9	1.5	35.7	0.0	0.0	40.0	20.8	2.8	64.3	0.0	0.0	74.1	3806	3027	0	0	704	0	563	400
151+00.00	15100	50	18.7	1.5	27.6	0.0	0.0	40.0	29.2	2.8	58.6	0.0	0.0	74.1	3835	3027	0	0	778	0	622	428
151+50.00	15150	50	23.9	1.5	16.8	0.0	0.0	40.0	39.5	2.8	41.1	0.0	0.0	74.1	3874	3004	0	0	852	0	681	487
152+00.00	15200	50	24.2	1.5	4.7	0.0	0.0	40.0	44.6	2.8	19.9	0.0	0.0	74.1	3919	2955	0	0	926	0	741	578
152+50.00	15250	50	18.8	1.5	16.7	0.0	0.0	40.0	39.8	2.8	19.9	0.0	0.0	74.1	3959	2905	0	0	1000	0	800	664
153+00.00	15300	50	13.9	1.5	10.4	0.0	0.0	40.0	30.3	2.8	25.1	0.0	0.0	74.1	3989	2863	0	0	1074	0	859	734
153+50.00	15350	50	9.2	1.5	21.8	0.0	0.0	40.0	21.4	2.8	29.8	0.0	0.0	74.1	4011	2826	0	0	1148	0	919	790
			STAGE 1 & 4 COLUMN SUBTOTALS (3 OF 4)						1352	133	931	0	0	1148								

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

STATION	REAL STATION	DISTANCE	AREA (SF)						INCREMENTAL VOL (CY) (UNADJUSTED)						CUMULATIVE VOL (CY)							MASS ORDINATE
			CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	EXPANDED ROCK	EXPANDED EBS BACKFILL	REDUCED MARSH IN FILL	REDUCED EBS IN FILL	
									NOTE 1	NOTE 2	NOTE 3				1.00 NOTE 1	1.25	1.50 NOTE 4	1.10	1.00 NOTE 5	0.60 NOTE 6	0.80 NOTE 7	NOTE 8
154+00.00	15400	50	10.2	1.5	10.1	0.0	0.0	40.0	18.0	2.8	29.6	0.0	0.0	74.1	4029	2789	0	0	1222	0	978	842
154+50.00	15450	50	117.0	1.5	0.0	0.0	0.0	40.0	117.8	2.8	9.4	0.0	0.0	74.1	4146	2727	0	0	1296	0	1037	1019
155+00.00	15500	50	14.7	1.5	19.0	0.0	0.0	40.0	121.9	2.8	17.5	0.0	0.0	74.1	4268	2674	0	0	1370	0	1096	1191
155+50.00	15550	50	22.6	1.5	8.7	0.0	0.0	40.0	34.5	2.8	25.6	0.0	0.0	74.1	4303	2632	0	0	1444	0	1156	1265

STATION	REAL STATION	DISTANCE	AREA (SF)						INCREMENTAL VOL (CY) (UNADJUSTED)						CUMULATIVE VOL (CY)							MASS ORDINATE
			CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	EXPANDED ROCK	EXPANDED EBS BACKFILL	REDUCED MARSH IN FILL	REDUCED EBS IN FILL	
															1.00	1.25	1.50	1.10	1.00	0.60	0.80	
				NOTE 1					NOTE 1	NOTE 2	NOTE 3				NOTE 1		NOTE 4		NOTE 5	NOTE 6	NOTE 7	NOTE 8
156+00.00	15600	50	25.5	1.5	6.9	0.0	0.0	40.0	44.5	2.8	14.4	0.0	0.0	74.1	44	-56	0	0	74	0	59	98
156+50.00	15650	50	26.7	1.5	4.3	0.0	0.0	40.0	48.3	2.8	10.4	0.0	0.0	74.1	93	-117	0	0	148	0	119	204
157+00.00	15700	50	26.8	1.5	4.0	0.0	0.0	40.0	49.5	2.8	7.7	0.0	0.0	74.1	142	-182	0	0	222	0	178	316
157+50.00	15750	50	25.7	1.5	4.3	0.0	0.0	40.0	48.6	2.8	7.7	0.0	0.0	74.1	191	-246	0	0	296	0	237	426
158+00.00	15800	50	12.3	1.5	3.5	0.0	0.0	40.0	35.2	2.8	7.2	0.0	0.0	74.1	226	-311	0	0	370	0	296	523
158+50.00	15850	50	11.8	1.5	3.8	0.0	0.0	0.0	22.3	2.8	6.7	0.0	0.0	37.0	248	-340	0	0	407	0	326	572
159+00.00	15900	50	13.3	1.5	2.9	0.0	0.0	0.0	23.2	2.8	6.2	0.0	0.0	0.0	272	-332	0	0	407	0	326	584
159+50.00	15950	50	14.5	1.5	2.1	0.0	0.0	0.0	25.7	2.8	4.6	0.0	0.0	0.0	297	-326	0	0	407	0	326	601
160+00.00	16000	50	12.8	1.5	3.3	0.0	0.0	0.0	25.3	2.8	4.9	0.0	0.0	0.0	323	-320	0	0	407	0	326	618
160+50.00	16050	50	11.6	1.5	4.1	0.0	0.0	0.0	22.7	2.8	6.8	0.0	0.0	0.0	345	-312	0	0	407	0	326	629
161+00.00	16100	50	10.5	1.5	5.8	0.0	0.0	0.0	20.5	2.8	9.1	0.0	0.0	0.0	366	-300	0	0	407	0	326	635
161+50.00	16150	50	9.1	1.5	6.2	0.0	0.0	0.0	18.1	2.8	11.1	0.0	0.0	0.0	384	-286	0	0	407	0	326	637
162+00.00	16200	50	8.4	1.5	6.5	0.0	0.0	0.0	16.2	2.8	11.8	0.0	0.0	0.0	400	-272	0	0	407	0	326	635
162+50.00	16250	50	9.0	1.5	7.0	0.0	0.0	0.0	16.1	2.8	12.5	0.0	0.0	0.0	416	-256	0	0	407	0	326	633
163+00.00	16300	50	10.1	1.5	8.6	0.0	0.0	0.0	17.7	2.8	14.4	0.0	0.0	0.0	434	-238	0	0	407	0	326	630
163+50.00	16350	50	10.6	1.5	8.8	0.0	0.0	0.0	19.2	2.8	16.1	0.0	0.0	0.0	453	-218	0	0	407	0	326	626
164+00.00	16400	50	10.4	1.5	9.7	0.0	0.0	0.0	19.4	2.8	17.1	0.0	0.0	0.0	472	-196	0	0	407	0	326	621
164+50.00	16450	50	101.7	1.5	0.0	0.0	0.0	0.0	103.8	2.8	9.0	0.0	0.0	0.0	576	-185	0	0	407	0	326	711
165+00.00	16500	50	19.2	1.5	5.5	0.0	0.0	0.0	111.9	2.8	5.1	0.0	0.0	0.0	688	-179	0	0	407	0	326	814
165+50.00	16550	50	10.4	1.5	9.1	0.0	0.0	0.0	27.4	2.8	13.5	0.0	0.0	0.0	715	-162	0	0	407	0	326	822
166+00.00	16600	50	8.1	1.5	15.1	0.0	0.0	0.0	17.0	2.8	22.4	0.0	0.0	0.0	732	-134	0	0	407	0	326	808
166+50.00	16650	50	6.6	1.5	20.1	0.0	0.0	0.0	13.5	2.8	32.6	0.0	0.0	0.0	746	-93	0	0	407	0	326	778
167+00.00	16700	50	7.3	1.5	16.4	0.0	0.0	0.0	12.8	2.8	33.9	0.0	0.0	0.0	759	-51	0	0	407	0	326	746
167+50.00	16750	50	10.0	1.5	7.2	0.0	0.0	0.0	16.0	2.8	21.8	0.0	0.0	0.0	775	-23	0	0	407	0	326	732
168+00.00	16800	50	25.0	1.5	41.0	0.0	0.0	0.0	32.5	2.8	44.6	0.0	0.0	0.0	807	32	0	0	407	0	326	706
168+50.00	16850	50	4.6	1.5	237.8	0.0	0.0	0.0	27.4	2.8	258.1	0.0	0.0	0.0	835	355	0	0	407	0	326	407
169+00.00	16900	50	3.3	1.5	341.2	0.0	0.0	0.0	7.3	2.8	536.1	0.0	0.0	0.0	842	1025	0	0	407	0	326	-258
169+50.00	16950	50	2.5	1.5	253.9	0.0	0.0	0.0	5.4	2.8	551.1	0.0	0.0	0.0	847	1714	0	0	407	0	326	-944
170+00.00	17000	50	2.1	1.5	182.7	0.0	0.0	0.0	4.3	2.8	404.3	0.0	0.0	0.0	852	2219	0	0	407	0	326	-1448
170+50.00	17050	50	4.4	1.5	86.4	0.0	0.0	0.0	6.0	2.8	249.2	0.0	0.0	0.0	858	2531	0	0	407	0	326	-1757
171+00.00	17100	50	9.5	1.5	12.9	0.0	0.0	0.0	12.9	2.8	92.0	0.0	0.0	0.0	870	2646	0	0	407	0	326	-1861
171+50.00	17150	50	154.4	1.5	0.0	0.0	0.0	0.0	151.7	2.8	12.0	0.0	0.0	0.0	1022	2661	0	0	407	0	326	-1727
172+00.00	17200	50	16.0	1.5	5.7	0.0	0.0	0.0	157.7	2.8	5.3	0.0	0.0	0.0	1180	2667	0	0	407	0	326	-1579
172+50.00	17250	50	9.6	1.5	13.8	0.0	0.0	0.0	23.7	2.8	18.1	0.0	0.0	0.0	1204	2690	0	0	407	0	326	-1581
173+00.00	17300	50	9.7	1.5	12.8	0.0	0.0	0.0	17.9	2.8	24.6	0.0	0.0	0.0	1221	2721	0	0	407	0	326	-1596
173+50.00	17350	50	10.3	1.5	11.4	0.0	0.0	0.0	18.5	2.8	22.4	0.0	0.0	0.0	1240	2749	0	0	407	0	326	-1609
174+00.00	17400	50	9.7	1.5	18.6	0.0	0.0	0.0	18.4	2.8	27.7	0.0	0.0	0.0	1258	2783	0	0	407	0	326	-1628
174+50.00	17450	50	8.6	1.5	18.1	0.0	0.0	0.0	16.9	2.8	34.0	0.0	0.0	0.0	1275	2826	0	0	407	0	326	-1656
175+00.00	17500	50	6.9	1.5	41.9	0.0	0.0	0.0	14.3	2.8	55.5	0.0	0.0	0.0	1290	2895	0	0	407	0	326	-1714
175+50.00	17550	50	6.3	1.5	182.1	0.0	0.0	0.0	12.2	2.8	207.4	0.0	0.0	0.0	1302	3154	0	0	407	0	326	-1964
176+00.00	17600	50	20.4	1.5	479.9	0.0	0.0	0.0	24.7	2.8	612.9	0.0	0.0	0.0	1326	3921	0	0	407	0	326	-2708
176+50.00	17650	50	4.7	1.5	555.0	0.0	0.0	0.0	23.3	2.8	958.2	0.0	0.0	0.0	1350	5118	0	0	407	0	326	-3885
177+00.00	17700	50	4.4	1.5	407.6	0.0	0.0	0.0	8.4	2.8	891.3	0.0	0.0	0.0	1358	6233	0	0	407	0	326	-4994
177+50.00	17750	50	4.8	1.5	167.0	0.0	0.0	0.0	8.5	2.8	532.0	0.0	0.0	0.0	1367	6898	0	0	407	0	326	-5653
178+00.00	17800	50	6.2	1.5	58.5	0.0	0.0	0.0	10.2	2.8	208.8	0.0	0.0	0.0	1377	7158	0	0	407	0	326	-5907
178+50.00	17850	50	8.7	1.5	20.5	0.0	0.0	0.0	13.8	2.8	73.1	0.0	0.0	0.0	1391	7250	0	0	407	0	326	-5987
179+00.00	17900	50	41.5	1.5	1.8	0.0	0.0	0.0	46.4	2.8	20.7	0.0	0.0	0.0	1437	7276	0	0	407	0	326	-5969
179+50.00	17950	50	9.3	1.5	20.6	0.0	0.0	0.0	47.0	2.8	20.8	0.0	0.0	0.0	1484	7302	0	0	407	0	326	-5951
			STAGE 1 & 5 COLUMN SUBTOTALS (1 OF 3)						1484	133	6167	0	0	407								

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

STATION	REAL STATION	DISTANCE	AREA (SF)						INCREMENTAL VOL (CY) (UNADJUSTED)						CUMULATIVE VOL (CY)							MASS ORDINATE
			CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	EXPANDED ROCK	EXPANDED EBS BACKFILL	REDUCED MARSH IN FILL	REDUCED EBS IN FILL	
															1.00	1.25	1.50	1.10	1.00	0.60	0.80	
									NOTE 1	NOTE 2	NOTE 3				NOTE 1		NOTE 4		NOTE 5	NOTE 6	NOTE 7	NOTE 8
180+00.00	18000	50	9.9	1.5	6.0	0.0	0.0	0.0	17.7	2.8	24.7	0.0	0.0	0.0	1502	7333	0	0	407	0	326	-5967
180+50.00	18050	50	7.3	1.5	7.5	0.0	0.0	0.0	15.9	2.8	12.5	0.0	0.0	0.0	1518	7348	0	0	407	0	326	-5969
181+00.00	18100	50	5.2	1.5	41.5	0.0	0.0	0.0	11.5	2.8	45.4	0.0	0.0	0.0	1529	7405	0	0	407	0	326	-6017
181+50.00	18150	50	4.6	1.5	33.0	0.0	0.0	0.0	9.0	2.8	69.0	0.0	0.0	0.0	1538	7491	0	0	407	0	326	-6097
182+00.00	18200	50	10.6	1.5	36.2	0.0	0.0	0.0	14.1	2.8	64.1	0.0	0.0	0.0	1552	7571	0	0	407	0	326	-6166
182+50.00	18250	50	6.1	1.5	39.5	0.0	0.0	0.0	15.5	2.8	70.1	0.0	0.0	0.0	1568	7659	0	0	407	0	326	-6241
183+00.00	18300	50	6.1	1.5	42.8	0.0	0.0	0.0	11.3	2.8	76.2	0.0	0.0	0.0	1579	7754	0	0	407	0	326	-6328
183+50.00	18350	50	5.5	1.5	42.4	0.0	0.0	0.0	10.7	2.8	78.9	0.0	0.0	0.0	1590	7853	0	0	407	0	326	-6419
184+00.00	18400	50	4.4	1.5	36.5	0.0	0.0	0.0	9.1	2.8	73.0	0.0	0.0	0.0	1599	7944	0	0	407	0	326	-6503
184+50.00	18450	50	6.8	1.5	38.6	0.0	0.0	0.0	10.4	2.8	69.6	0.0	0.0	0.0	1609	8031	0	0	407	0	326	-6583
185+00.00	18500	50	9.4	1.5	37.7	0.0	0.0	0.0	15.0	2.8	70.6	0.0	0.0	0.0	1624	8119	0	0	407	0	326	-6659
185+50.00	18550	50	10.7	1.5	26.5	0.0	0.0	0.0	18.6	2.8	59.4	0.0	0.0	0.0	1643	8194	0	0	407	0	326	-6717
186+00.00	18600	50	9.5	1.5	9.1	0.0	0.0	0.0	18.7	2.8	33.0	0.0	0.0	0.0	1662	8235	0	0	407	0	326	-6743
186+50.00	18650	50	11.7	1.5	0.1	0.0	0.0	0.0	19.6	2.8	8.6	0.0	0.0	0.0	1681	8246	0	0	407	0	326	-6736
187+00.00	18700	50	21.9	1.5	2.2	0.0	0.0	0.0	31.1	2.8	2.1	0.0	0.0	0.0	1712	8248	0	0	407	0	326	-6711
187+50.00	18750	50	10.0	1.5	5.8	0.0	0.0	0.0	29.6	2.8	7.3	0.0	0.0	0.0	1742	8257	0	0	407	0	326	-6693
188+00.00	18800	50	9.5	1.5	11.7	0.0	0.0	0.0	18.0	2.8	16.2	0.0	0.0	0.0	1760	8278	0	0	407	0	326	-6698
188+50.00	18850	50	9.1	1.5	9.0	0.0	0.0	0.0	17.2	2.8	19.2	0.0	0.0	0.0	1777	8302	0	0	407	0	326	-6708
189+00.00	18900	50	8.5	1.5	12.8	0.0	0.0	0.0	16.3	2.8	20.2	0.0	0.0	0.0	1793	8327	0	0	407	0	326	-6719
189+50.00	18950	50	20.0	1.5	34.7	0.0	0.0	0.0	26.4	2.8	44.0	0.0	0.0	0.0	1820	8382	0	0	407	0	326	-6751
190+00.00	19000	50	20.1	1.5	103.6	0.0	0.0	0.0	37.1	2.8	128.1	0.0	0.0	0.0	1857	8542	0	0	407	0	326	-6876
190+50.00	19050	50	7.7	1.5	85.7	0.0	0.0	0.0	25.7	2.8	175.2	0.0	0.0	0.0	1883	8761	0	0	407	0	326	-7073
191+00.00	19100	50	8.5	1.5	27.9	0.0	0.0	0.0	15.0	2.8	105.2	0.0	0.0	0.0	1898	8892	0	0	407	0	326	-7192
191+50.00	19150	50	9.4	1.5	13.3	0.0	0.0	0.0	16.6	2.8	38.1	0.0	0.0	0.0	1914	8940	0	0	407	0	326	-7226
192+00.00	19200	50	8.6	1.5	5.4	0.0	0.0	0.0	16.7	2.8	17.3	0.0	0.0	0.0	1931	8962	0	0	407	0	326	-7233
192+50.00	19250	50	10.5	1.5	2.1	0.0	0.0	0.0	17.7	2.8	6.9	0.0	0.0	0.0	1949	8970	0	0	407	0	326	-7227
193+00.00	19300	50	9.0	1.5	0.8	0.0	0.0	0.0	18.1	2.8	2.7	0.0	0.0	0.0	1967	8974	0	0	407	0	326	-7215
193+50.00	19350	50	13.3	1.5	0.5	0.0	0.0	0.0	20.6	2.8	1.2	0.0	0.0	0.0	1987	8975	0	0	407	0	326	-7199
194+00.00	19400	50	17.5	1.5	0.0	0.0	0.0	0.0	28.5	2.8	0.5	0.0	0.0	0.0	2016	8976	0	0	407	0	326	-7174
194+50.00	19450	50	23.3	1.5	0.0	0.0	0.0	0.0	37.8	2.8	0.0	0.0	0.0	0.0	2054	8976	0	0	407	0	326	-7139
195+00.00	19500	50	39.0	1.5	0.0	0.0	0.0	0.0	57.7	2.8	0.0	0.0	0.0	0.0	2111	8976	0	0	407	0	326	-7084
195+50.00	19550	50	57.9	1.5	0.0	0.0	0.0	0.0	89.8	2.8	0.0	0.0	0.0	0.0	2201	8976	0	0	407	0	326	-6997
196+00.00	19600	50	37.5	1.5	0.1	0.0	0.0	0.0	88.4	2.8	0.1	0.0	0.0	0.0	2289	8976	0	0	407	0	326	-6911
196+50.00	19650	50	34.7	1.5	2.3	0.0	0.0	0.0	66.9	2.8	2.3	0.0	0.0	0.0	2356	8979	0	0	407	0	326	-6850
197+00.00	19700	50	35.2	1.5	1.7	0.0	0.0	0.0	64.7	2.8	3.8	0.0	0.0	0.0	2421	8983	0	0	407	0	326	-6793
197+50.00	19750	50	30.4	1.5	3.0	0.0	0.0	0.0	60.7	2.8	4.3	0.0	0.0	0.0	2482	8989	0	0	407	0	326	-6740
198+00.00	19800	50	43.4	1.5	2.8	0.0	0.0	0.0	68.4	2.8	5.4	0.0	0.0	0.0	2550	8996	0	0	407	0	326	-6681
198+50.00	19850	50	25.1	1.5	2.9	0.0	0.0	0.0	63.4	2.8	5.4	0.0	0.0	0.0	2614	9002	0	0	407	0	326	-6628
199+00.00	19900	50	22.1	1.5	25.0	0.0	0.0	0.0	43.6	2.8	25.9	0.0	0.0	0.0	2657	9035	0	0	407	0	326	-6619
199+50.00	19950	50	15.8	1.5	59.9	0.0	0.0	0.0	35.1	2.8	78.7	0.0	0.0	0.0	2692	9133	0	0	407	0	326	-6685
200+00.00	20000	50	10.7	1.5	64.1	0.0	0.0	0.0	24.5	2.8	114.9	0.0	0.0	0.0	2717	9277	0	0	407	0	326	-6807
200+50.00	20050	50	23.4	1.5	69.2	0.0	0.0	0.0	31.5	2.8	123.4	0.0	0.0	0.0	2748	9431	0	0	407	0	326	-6932
201+00.00	20100	50	9.3	1.5	31.5	0.0	0.0	0.0	30.2	2.8	93.3	0.0	0.0	0.0	2779	9547	0	0	407	0	326	-7022
201+50.00	20150	50	14.2	1.5	6.7	0.0	0.0	0.0	21.7	2.8	35.4	0.0	0.0	0.0	2800	9592	0	0	407	0	326	-7047
202+00.00	20200	50	21.6	1.5	0.3	0.0	0.0	0.0	33.1	2.8	6.5	0.0	0.0	0.0	2833	9600	0	0	407	0	326	-7025
202+50.00	20250	50	20.6	1.5	0.4	0.0	0.0	0.0	39.0	2.8	0.7	0.0	0.0	0.0	2872	9601	0	0	407	0	326	-6989
203+00.00	20300	50	20.6	1.5	0.4	0.0	0.0	0.0	38.1	2.8	0.7	0.0	0.0	0.0	2910	9601	0	0	407	0	326	-6955
203+50.00	20350	50	18.8	1.5	0.2	0.0	0.0	0.0	36.4	2.8	0.5	0.0	0.0	0.0	2947	9602	0	0	407	0	326	-6922
					STAGE 5 COLUMN SUBTOTALS (2 OF 3)				1463	133	1840	0	0	0								

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ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

STATION	REAL STATION	DISTANCE	AREA (SF)						INCREMENTAL VOL (CY) (UNADJUSTED)						CUMULATIVE VOL (CY)							MASS ORDINATE
			CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	EXPANDED ROCK	EXPANDED EBS BACKFILL	REDUCED MARSH IN FILL	REDUCED EBS IN FILL	
															1.00	1.25	1.50	1.10	1.00	0.60	0.80	
									NOTE 1	NOTE 2	NOTE 3				NOTE 1		NOTE 4		NOTE 5	NOTE 6	NOTE 7	NOTE 8
204+00.00	20400	50	23.3	1.5	0.1	0.0	0.0	0.0	38.9	2.8	0.3	0.0	0.0	0.0	2986	9602	0	0	407	0	326	-6886
204+50.00	20450	50	20.5	1.5	1.0	0.0	0.0	0.0	40.5	2.8	1.0	0.0	0.0	0.0	3026	9604	0	0	407	0	326	-6850
205+00.00	20500	50	18.0	1.5	0.1	0.0	0.0	0.0	35.7	2.8	0.9	0.0	0.0	0.0	3062	9605	0	0	407	0	326	-6818
205+50.00	20550	50	13.9	1.5	13.5	0.0	0.0	0.0	29.5	2.8	12.5	0.0	0.0	0.0	3092	9620	0	0	407	0	326	-6807
206+00.00	20600	50	14.2	1.5	17.5	0.0	0.0	0.0	26.0	2.8	28.7	0.0	0.0	0.0	3118	9656	0	0	407	0	326	-6819
206+50.00	20650	50	15.7	1.5	9.7	0.0	0.0	0.0	27.6	2.8	25.2	0.0	0.0	0.0	3145	9688	0	0	407	0	326	-6826
207+00.00	20700	50	16.8	1.5	7.7	0.0	0.0	0.0	30.0	2.8	16.0	0.0	0.0	0.0	3175	9708	0	0	407	0	326	-6819
207+50.00	20750	50	17.8	1.5	2.7	0.0	0.0	0.0	32.0	2.8	9.6	0.0	0.0	0.0	3207	9720	0	0	407	0	326	-6802
208+00.00	20800	50	21.1	1.5	0.0	0.0	0.0	0.0	36.0	2.8	2.5	0.0	0.0	0.0	3243	9723	0	0	407	0	326	-6772
208+50.00	20850	50	0.0	1.5	0.0	0.0	0.0	0.0	19.5	2.8	0.0	0.0	0.0	0.0	3263	9723	0	0	407	0	326	-6755
209+00.00	20900	50	0.0	1.5	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	3263	9723	0	0	407	0	326	-6758
209+50.00	20950	50	0.0	1.5	3.6	0.0	0.0	0.0	0.0	2.8	3.3	0.0	0.0	0.0	3263	9727	0	0	407	0	326	-6765
210+00.00	21000	50	14.3	1.5	11.7	0.0	0.0	0.0	13.2	2.8	14.1	0.0	0.0	0.0	3276	9745	0	0	407	0	326	-6772
210+50.00	21050	50	19.9	1.5	21.5	0.0	0.0	0.0	31.6	2.8	30.6	0.0	0.0	0.0	3307	9783	0	0	407	0	326	-6781
211+00.00	21100	50	11.6	1.5	20.0	0.0	0.0	0.0	29.2	2.8	38.4	0.0	0.0	0.0	3337	9831	0	0	407	0	326	-6803
211+50.00	21150	50	12.3	1.5	0.9	0.0	0.0	0.0	22.1	2.8	19.4	0.0	0.0	0.0	3359	9855	0	0	407	0	326	-6808
212+00.00	21200	50	13.3	1.5	2.2	0.0	0.0	0.0	23.7	2.8	2.9	0.0	0.0	0.0	3382	9859	0	0	407	0	326	-6790
212+50.00	21250	50	0.0	1.5	0.0	0.0	0.0	0.0	12.3	2.8	2.0	0.0	0.0	0.0	3395	9861	0	0	407	0	326	-6783
213+00.00	21300	50	0.0	1.5	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	3395	9861	0	0	407	0	326	-6786
213+50.00	21350	50	0.0	1.5	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	3395	9861	0	0	407	0	326	-6789
214+00.00	21400	50	0.0	1.5	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	3395	9861	0	0	407	0	326	-6792
214+50.00	21450	50	0.0	1.5	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	3395	9861	0	0	407	0	326	-6795
215+00.00	21500	50	0.0	1.5	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	3395	9861	0	0	407	0	326	-6797
215+50.00	21550	50	29.6	1.5	0.0	0.0	0.0	0.0	27.4	2.8	0.0	0.0	0.0	0.0	3422	9861	0	0	407	0	326	-6773
216+00.00	21600	50	13.8	1.5	0.8	0.0	0.0	0.0	40.3	2.8	0.7	0.0	0.0	0.0	3462	9862	0	0	407	0	326	-6736
216+50.00	21650	50	11.5	1.5	21.4	0.0	0.0	0.0	23.4	2.8	20.5	0.0	0.0	0.0	3486	9888	0	0	407	0	326	-6741
217+00.00	21700	50	9.5	1.5	41.3	0.0	0.0	0.0	19.4	2.8	58.0	0.0	0.0	0.0	3505	9961	0	0	407	0	326	-6797
217+50.00	21750	50	14.0	1.5	24.4	0.0	0.0	0.0	21.7	2.8	60.8	0.0	0.0	0.0	3527	10037	0	0	407	0	326	-6854
218+00.00	21800	50	11.2	1.5	28.5	0.0	0.0	0.0	23.3	2.8	49.0	0.0	0.0	0.0	3550	10098	0	0	407	0	326	-6895
218+50.00	21850	50	9.2	1.5	24.1	0.0	0.0	0.0	18.9	2.8	48.7	0.0	0.0	0.0	3569	10159	0	0	407	0	326	-6940
219+00.00	21900	50	11.6	1.5	23.1	0.0	0.0	0.0	19.2	2.8	43.7	0.0	0.0	0.0	3588	10213	0	0	407	0	326	-6978
219+50.00	21950	50	13.2	1.5	22.5	0.0	0.0	0.0	22.9	2.8	42.2	0.0	0.0	0.0	3611	10266	0	0	407	0	326	-7010
220+00.00	22000	50	0.8	1.5	4.4	0.0	0.0	0.0	12.9	2.8	24.9	0.0	0.0	0.0	3624	10297	0	0	407	0	326	-7031
220+01.46	22001	1	0.9	1.5	3.1	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.0	0.0	3624	10297	0	0	407	0	326	-7032

STAGE 5 COLUMN SUBTOTALS (3 OF 3)	677	92	556	0	0	0
STAGE 1 & 5 COLUMN TOTALS (CAT. 0010)	2482	233	7517	0	0	407
STAGE 5 COLUMN TOTALS (CAT. 0060)*	1142	125	1047	0	0	0
STAGE 1 & 5 COLUMN TOTALS (COMBINED)	3624	358	8564	0	0	407

* NOTE:
ALL STAGE 5 (RIGHT SIDE) EARTHWORK MEASURED ALONG THE STH 47 MAINLINE ALIGNMENT FROM STA. 198+00 RT TO STA. 212+53 RT AND STA. 215+51 RT TO STA. 220+14 RT NEEDED TO CONSTRUCT THE SIDEWALK IS INCLUDED IN CATEGORY 0060.

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

STATION	REAL STATION	DISTANCE	AREA (SF)						INCREMENTAL VOL (CY) (UNADJUSTED)						CUMULATIVE VOL (CY)							MASS ORDINATE
			CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	EXPANDED ROCK	EXPANDED EBS BACKFILL	REDUCED MARSH IN FILL	REDUCED EBS IN FILL	
															1.00	1.25	1.50	1.10	1.00	0.60	0.80	
									NOTE 1	NOTE 2	NOTE 3				NOTE 1		NOTE 4		NOTE 5	NOTE 6	NOTE 7	NOTE 8
156+00.00	15600	50	21.9	1.5	16.1	0.0	0.0	40.0	38.0	2.8	30.8	0.0	0.0	74.1	38	-36	0	0	74	0	59	71
156+50.00	15650	50	32.7	1.5	9.0	0.0	0.0	40.0	50.5	2.8	23.2	0.0	0.0	74.1	89	-81	0	0	148	0	119	164
157+00.00	15700	50	128.1	1.5	0.0	0.0	0.0	40.0	148.9	2.8	8.3	0.0	0.0	74.1	238	-144	0	0	222	0	178	373
157+50.00	15750	50	22.2	1.5	3.2	0.0	0.0	40.0	139.2	2.8	3.0	0.0	0.0	74.1	377	-215	0	0	296	0	237	580
158+00.00	15800	50	14.0	1.5	0.0	0.0	0.0	40.0	33.5	2.8	3.0	0.0	0.0	74.1	410	-285	0	0	370	0	296	681
158+50.00	15850	50	13.1	1.5	0.0	0.0	0.0	0.0	25.0	2.8	0.0	0.0	0.0	37.0	435	-322	0	0	407	0	326	741
159+00.00	15900	50	14.7	1.5	0.0	0.0	0.0	0.0	25.7	2.8	0.0	0.0	0.0	0.0	461	-322	0	0	407	0	326	764
159+50.00	15950	50	13.9	1.5	0.0	0.0	0.0	0.0	26.5	2.8	0.0	0.0	0.0	0.0	487	-322	0	0	407	0	326	787
160+00.00	16000	50	14.0	1.5	0.0	0.0	0.0	0.0	25.8	2.8	0.0	0.0	0.0	0.0	513	-322	0	0	407	0	326	810
160+50.00	16050	50	14.4	1.5	0.0	0.0	0.0	0.0	26.3	2.8	0.0	0.0	0.0	0.0	540	-322	0	0	407	0	326	834
161+00.00	16100	50	12.3	1.5	0.0	0.0	0.0	0.0	24.7	2.8	0.0	0.0	0.0	0.0	564	-322	0	0	407	0	326	856
161+50.00	16150	50	11.7	1.5	0.2	0.0	0.0	0.0	22.3	2.8	0.2	0.0	0.0	0.0	586	-322	0	0	407	0	326	875
162+00.00	16200	50	11.4	1.5	0.0	0.0	0.0	0.0	21.4	2.8	0.2	0.0	0.0	0.0	608	-322	0	0	407	0	326	893
162+50.00	16250	50	12.2	1.5	0.0	0.0	0.0	0.0	21.8	2.8	0.0	0.0	0.0	0.0	630	-322	0	0	407	0	326	913
163+17.99	16318	68	177.7	1.5	1.3	0.0	0.0	0.0	239.0	3.8	1.6	0.0	0.0	0.0	869	-320	0	0	407	0	326	1146
163+50.00	16350	32	15.0	1.5	0.0	0.0	0.0	0.0	114.2	1.8	0.7	0.0	0.0	0.0	983	-319	0	0	407	0	326	1257
164+00.00	16400	50	10.1	1.5	0.0	0.0	0.0	0.0	23.2	2.8	0.0	0.0	0.0	0.0	1006	-319	0	0	407	0	326	1278
164+50.00	16450	50	13.3	1.5	0.0	0.0	0.0	0.1	21.6	2.8	0.0	0.0	0.0	0.1	1028	-319	0	0	407	0	326	1297
165+00.00	16500	50	16.2	1.5	0.0	0.0	0.0	0.0	27.3	2.8	0.0	0.0	0.0	0.1	1055	-319	0	0	408	0	326	1321
165+50.00	16550	50	11.4	1.5	14.1	0.0	0.0	0.0	25.6	2.8	13.1	0.0	0.0	0.0	1081	-303	0	0	408	0	326	1328
166+00.00	16600	50	56.7	1.5	0.0	0.0	0.0	0.0	63.1	2.8	13.1	0.0	0.0	0.0	1144	-286	0	0	408	0	326	1372
166+50.00	16650	50	7.1	1.5	5.7	0.0	0.0	0.0	59.1	2.8	5.3	0.0	0.0	0.0	1203	-280	0	0	408	0	326	1421
167+00.00	16700	50	8.9	1.5	1.6	0.0	0.0	0.0	14.8	2.8	6.8	0.0	0.0	0.0	1218	-271	0	0	408	0	326	1425
167+50.00	16750	50	13.5	1.5	0.0	0.0	0.0	0.0	20.7	2.8	1.5	0.0	0.0	0.0	1238	-269	0	0	408	0	326	1441
168+00.00	16800	50	31.6	1.5	0.7	0.0	0.0	0.0	41.7	2.8	0.7	0.0	0.0	0.0	1280	-268	0	0	408	0	326	1479
168+50.00	16850	50	11.5	1.5	1.5	0.0	0.0	0.0	39.9	2.8	2.1	0.0	0.0	0.0	1320	-266	0	0	408	0	326	1513
169+00.00	16900	50	8.6	1.5	9.5	0.0	0.0	0.0	18.6	2.8	10.3	0.0	0.0	0.0	1339	-253	0	0	408	0	326	1517
169+50.00	16950	50	4.7	1.5	68.5	0.0	0.0	0.0	12.3	2.8	72.2	0.0	0.0	0.0	1351	-163	0	0	408	0	326	1436
170+00.00	17000	50	4.5	1.5	203.4	0.0	0.0	0.0	8.5	2.8	251.7	0.0	0.0	0.0	1359	152	0	0	408	0	326	1127
170+50.00	17050	50	7.8	1.5	110.2	0.0	0.0	0.0	11.3	2.8	290.4	0.0	0.0	0.0	1371	515	0	0	408	0	326	772
171+00.00	17100	50	12.2	1.5	25.0	0.0	0.0	0.0	18.5	2.8	125.1	0.0	0.0	0.0	1389	671	0	0	408	0	326	632
171+50.00	17150	50	28.8	1.5	0.0	0.0	0.0	0.0	38.0	2.8	23.1	0.0	0.0	0.0	1427	700	0	0	408	0	326	638
172+00.00	17200	50	16.5	1.5	0.3	0.0	0.0	0.0	42.0	2.8	0.3	0.0	0.0	0.0	1469	701	0	0	408	0	326	677
172+50.00	17250	50	14.4	1.5	0.6	0.0	0.0	0.0	28.7	2.8	0.8	0.0	0.0	0.0	1498	702	0	0	408	0	326	702
173+00.00	17300	50	8.0	1.5	0.0	0.0	0.0	0.0	20.8	2.8	0.5	0.0	0.0	0.0	1519	702	0	0	408	0	326	719
173+50.00	17350	50	14.4	1.5	0.8	0.0	0.0	0.0	20.7	2.8	0.7	0.0	0.0	0.0	1539	703	0	0	408	0	326	736
174+00.00	17400	50	13.4	1.5	0.5	0.0	0.0	0.0	25.7	2.8	1.1	0.0	0.0	0.0	1565	705	0	0	408	0	326	758
174+50.00	17450	50	12.4	1.5	1.0	0.0	0.0	0.0	23.9	2.8	1.4	0.0	0.0	0.0	1589	706	0	0	408	0	326	777
175+00.00	17500	50	12.1	1.5	0.8	0.0	0.0	0.0	22.7	2.8	1.7	0.0	0.0	0.0	1612	708	0	0	408	0	326	795
175+50.00	17550	50	10.3	1.5	62.4	0.0	0.0	0.0	20.7	2.8	58.5	0.0	0.0	0.0	1632	782	0	0	408	0	326	740
176+00.00	17600	50	24.9	1.5	83.8	0.0	0.0	0.0	32.6	2.8	135.4	0.0	0.0	0.0	1665	951	0	0	408	0	326	600
176+50.00	17650	50	9.7	1.5	53.4	0.0	0.0	0.0	32.0	2.8	127.0	0.0	0.0	0.0	1697	1110	0	0	408	0	326	471
177+00.00	17700	50	9.0	1.5	35.0	0.0	0.0	0.0	17.3	2.8	81.8	0.0	0.0	0.0	1714	1212	0	0	408	0	326	383
177+50.00	17750	50	10.6	1.5	19.5	0.0	0.0	0.0	18.1	2.8	50.4	0.0	0.0	0.0	1733	1275	0	0	408	0	326	335
178+00.00	17800	50	10.0	1.5	12.3	0.0	0.0	0.0	19.1	2.8	29.4	0.0	0.0	0.0	1752	1312	0	0	408	0	326	315
178+50.00	17850	50	11.2	1.5	1.5	0.0	0.0	0.0	19.6	2.8	12.8	0.0	0.0	0.0	1771	1328	0	0	408	0	326	316
179+00.00	17900	50	11.6	1.5	9.1	0.0	0.0	0.0	21.1	2.8	9.8	0.0	0.0	0.0	1792	1340	0	0	408	0	326	322
179+50.00	17950	50	11.3	1.5	19.9	0.0	0.0	0.0	21.2	2.8	26.8	0.0	0.0	0.0	1813	1373	0	0	408	0	326	307
				STAGE 1 & 6 COLUMN SUBTOTALS (1 OF 3)					1813	133	1425	0	0	408								

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

STATION	REAL STATION	DISTANCE	AREA (SF)						INCREMENTAL VOL (CY) (UNADJUSTED)						CUMULATIVE VOL (CY)							MASS ORDINATE
			CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	EXPANDED ROCK	EXPANDED EBS BACKFILL	REDUCED MARSH IN FILL	REDUCED EBS IN FILL	
															1.00	1.25	1.50	1.10	1.00	0.60	0.80	
									NOTE 1	NOTE 2	NOTE 3				NOTE 1		NOTE 4		NOTE 5	NOTE 6	NOTE 7	NOTE 8
180+00.00	18000	50	47.6	1.5	14.7	0.0	0.0	0.0	54.5	2.8	32.0	0.0	0.0	0.0	1868	1413	0	0	408	0	326	318
180+50.00	18050	50	24.5	1.5	5.9	0.0	0.0	0.0	66.8	2.8	19.1	0.0	0.0	0.0	1935	1437	0	0	408	0	326	359
181+00.00	18100	50	27.3	1.5	0.0	0.0	0.0	0.0	47.9	2.8	5.5	0.0	0.0	0.0	1983	1444	0	0	408	0	326	397
181+50.00	18150	50	16.2	1.5	0.0	0.0	0.0	0.0	40.2	2.8	0.0	0.0	0.0	0.0	2023	1444	0	0	408	0	326	434
182+00.00	18200	50	12.0	1.5	0.3	0.0	0.0	0.0	26.1	2.8	0.3	0.0	0.0	0.0	2049	1445	0	0	408	0	326	457
182+50.00	18250	50	9.5	1.5	2.6	0.0	0.0	0.0	19.8	2.8	2.7	0.0	0.0	0.0	2069	1448	0	0	408	0	326	471
183+00.00	18300	50	9.6	1.5	3.8	0.0	0.0	0.0	17.6	2.8	5.9	0.0	0.0	0.0	2086	1455	0	0	408	0	326	478
183+50.00	18350	50	9.8	1.5	3.2	0.0	0.0	0.0	17.9	2.8	6.4	0.0	0.0	0.0	2104	1463	0	0	408	0	326	485
184+00.00	18400	50	8.5	1.5	109.5	0.0	0.0	0.0	17.0	2.8	104.3	0.0	0.0	0.0	2121	1594	0	0	408	0	326	369
184+50.00	18450	50	8.3	1.5	73.4	0.0	0.0	0.0	15.6	2.8	169.3	0.0	0.0	0.0	2137	1805	0	0	408	0	326	170
185+00.00	18500	50	11.4	1.5	4.8	0.0	0.0	0.0	18.3	2.8	72.4	0.0	0.0	0.0	2155	1896	0	0	408	0	326	95
185+50.00	18550	50	12.0	1.5	0.5	0.0	0.0	0.0	21.7	2.8	4.9	0.0	0.0	0.0	2177	1902	0	0	408	0	326	108
186+00.00	18600	50	12.4	1.5	0.0	0.0	0.0	0.0	22.6	2.8	0.4	0.0	0.0	0.0	2199	1903	0	0	408	0	326	127
186+50.00	18650	50	10.0	1.5	13.8	0.0	0.0	0.0	20.8	2.8	12.7	0.0	0.0	0.0	2220	1918	0	0	408	0	326	129
187+00.00	18700	50	10.6	1.5	8.4	0.0	0.0	0.0	19.0	2.8	20.5	0.0	0.0	0.0	2239	1944	0	0	408	0	326	120
187+50.00	18750	50	12.4	1.5	0.0	0.0	0.0	0.0	21.3	2.8	7.8	0.0	0.0	0.0	2260	1954	0	0	408	0	326	129
188+00.00	18800	50	9.8	1.5	38.6	0.0	0.0	0.0	20.6	2.8	35.7	0.0	0.0	0.0	2281	1998	0	0	408	0	326	102
188+50.00	18850	50	8.3	1.5	55.3	0.0	0.0	0.0	16.8	2.8	86.9	0.0	0.0	0.0	2298	2107	0	0	408	0	326	7
189+00.00	18900	50	7.2	1.5	116.9	0.0	0.0	0.0	14.4	2.8	159.4	0.0	0.0	0.0	2312	2306	0	0	408	0	326	-180
189+50.00	18950	50	18.9	1.5	34.5	0.0	0.0	0.0	24.1	2.8	140.2	0.0	0.0	0.0	2336	2482	0	0	408	0	326	-334
190+00.00	19000	50	23.1	1.5	4.6	0.0	0.0	0.0	38.9	2.8	36.2	0.0	0.0	0.0	2375	2527	0	0	408	0	326	-343
190+50.00	19050	50	14.2	1.5	0.0	0.0	0.0	0.0	34.5	2.8	4.2	0.0	0.0	0.0	2410	2532	0	0	408	0	326	-317
191+00.00	19100	50	11.9	1.5	3.0	0.0	0.0	0.0	24.1	2.8	2.8	0.0	0.0	0.0	2434	2536	0	0	408	0	326	-299
191+50.00	19150	50	13.0	1.5	0.1	0.0	0.0	0.0	23.1	2.8	2.8	0.0	0.0	0.0	2457	2539	0	0	408	0	326	-282
192+00.00	19200	50	11.5	1.5	0.0	0.0	0.0	0.0	22.7	2.8	0.1	0.0	0.0	0.0	2480	2539	0	0	408	0	326	-262
192+50.00	19250	50	14.8	1.5	0.0	0.0	0.0	0.0	24.4	2.8	0.0	0.0	0.0	0.0	2504	2539	0	0	408	0	326	-241
193+00.00	19300	50	13.0	1.5	0.0	0.0	0.0	0.0	25.8	2.8	0.0	0.0	0.0	0.0	2530	2539	0	0	408	0	326	-218
193+50.00	19350	50	10.7	1.5	0.0	0.0	0.0	0.0	22.0	2.8	0.0	0.0	0.0	0.0	2552	2539	0	0	408	0	326	-199
194+00.00	19400	50	14.1	1.5	0.0	0.0	0.0	0.0	23.0	2.8	0.0	0.0	0.0	0.0	2575	2539	0	0	408	0	326	-178
194+50.00	19450	50	9.5	1.5	4.1	0.0	0.0	0.0	21.9	2.8	3.8	0.0	0.0	0.0	2597	2544	0	0	408	0	326	-164
195+00.00	19500	50	10.1	1.5	0.7	0.0	0.0	0.0	18.2	2.8	4.5	0.0	0.0	0.0	2615	2550	0	0	408	0	326	-154
195+50.00	19550	50	20.9	1.5	4.7	0.0	0.0	0.0	28.8	2.8	5.1	0.0	0.0	0.0	2644	2556	0	0	408	0	326	-134
196+00.00	19600	50	10.2	1.5	5.4	0.0	0.0	0.0	28.8	2.8	9.4	0.0	0.0	0.0	2672	2568	0	0	408	0	326	-120
196+50.00	19650	50	30.1	1.5	0.0	0.0	0.0	0.0	37.3	2.8	5.0	0.0	0.0	0.0	2710	2574	0	0	408	0	326	-92
197+00.00	19700	50	79.3	1.5	0.0	0.0	0.0	0.0	101.3	2.8	0.0	0.0	0.0	0.0	2811	2574	0	0	408	0	326	7
197+50.00	19750	50	20.8	1.5	0.0	0.0	0.0	0.0	92.6	2.8	0.0	0.0	0.0	0.0	2904	2574	0	0	408	0	326	97
198+00.00	19800	50	13.0	1.5	5.7	0.0	0.0	0.0	31.2	2.8	5.3	0.0	0.0	0.0	2935	2580	0	0	408	0	326	118
198+50.00	19850	50	12.2	1.5	4.1	0.0	0.0	0.0	23.3	2.8	9.0	0.0	0.0	0.0	2958	2592	0	0	408	0	326	128
199+00.00	19900	50	9.2	1.5	8.7	0.0	0.0	0.0	19.9	2.8	11.8	0.0	0.0	0.0	2978	2607	0	0	408	0	326	130
199+50.00	19950	50	8.6	1.5	18.3	0.0	0.0	0.0	16.6	2.8	25.0	0.0	0.0	0.0	2995	2638	0	0	408	0	326	112
200+00.00	20000	50	10.0	1.5	21.0	0.0	0.0	0.0	17.3	2.8	36.4	0.0	0.0	0.0	3012	2683	0	0	408	0	326	81
200+50.00	20050	50	27.3	1.5	17.8	0.0	0.0	0.0	34.5	2.8	36.0	0.0	0.0	0.0	3046	2728	0	0	408	0	326	68
201+00.00	20100	50	10.5	1.5	38.5	0.0	0.0	0.0	34.9	2.8	52.1	0.0	0.0	0.0	3081	2793	0	0	408	0	326	35
201+50.00	20150	50	8.8	1.5	51.7	0.0	0.0	0.0	17.9	2.8	83.5	0.0	0.0	0.0	3099	2898	0	0	408	0	326	-54
202+00.00	20200	50	9.7	1.5	0.2	0.0	0.0	0.0	17.2	2.8	48.1	0.0	0.0	0.0	3116	2958	0	0	408	0	326	-100
202+50.00	20250	50	8.9	1.5	2.1	0.0	0.0	0.0	17.3	2.8	2.1	0.0	0.0	0.0	3134	2961	0	0	408	0	326	-88
203+00.00	20300	50	8.0	1.5	3.2	0.0	0.0	0.0	15.7	2.8	4.9	0.0	0.0	0.0	3149	2967	0	0	408	0	326	-81
203+50.00	20350	50	9.1	1.5	3.4	0.0	0.0	0.0	15.9	2.8	6.0	0.0	0.0	0.0	3165	2974	0	0	408	0	326	-76
					STAGE 6 COLUMN SUBTOTALS (2 OF 3)				1352	133	1281	0	0	0								

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

STATION	REAL STATION	DISTANCE	AREA (SF)						INCREMENTAL VOL (CY) (UNADJUSTED)						CUMULATIVE VOL (CY)							MASS ORDINATE
			CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	EXPANDED ROCK	EXPANDED EBS BACKFILL	REDUCED MARSH IN FILL	REDUCED EBS IN FILL	
															1.00	1.25	1.50	1.10	1.00	0.60	0.80	
									NOTE 1	NOTE 2	NOTE 3				NOTE 1		NOTE 4		NOTE 5	NOTE 6	NOTE 7	NOTE 8
204+00.00	20400	50	8.4	1.5	7.7	0.0	0.0	0.0	16.2	2.8	10.2	0.0	0.0	0.0	3181	2987	0	0	408	0	326	-75
204+50.00	20450	50	8.3	1.5	7.8	0.0	0.0	0.0	15.5	2.8	14.3	0.0	0.0	0.0	3197	3005	0	0	408	0	326	-80
205+00.00	20500	50	8.7	1.5	0.5	0.0	0.0	0.0	15.8	2.8	7.6	0.0	0.0	0.0	3213	3014	0	0	408	0	326	-77
205+50.00	20550	50	6.0	1.5	3.4	0.0	0.0	0.0	13.6	2.8	3.6	0.0	0.0	0.0	3226	3019	0	0	408	0	326	-70
206+00.00	20600	50	5.3	1.5	18.2	0.0	0.0	0.0	10.5	2.8	20.1	0.0	0.0	0.0	3237	3044	0	0	408	0	326	-88
206+50.00	20650	50	5.6	1.5	8.2	0.0	0.0	0.0	10.1	2.8	24.5	0.0	0.0	0.0	3247	3075	0	0	408	0	326	-111
207+00.00	20700	50	5.9	1.5	4.3	0.0	0.0	0.0	10.6	2.8	11.6	0.0	0.0	0.0	3258	3089	0	0	408	0	326	-118
207+50.00	20750	50	6.1	1.5	1.6	0.0	0.0	0.0	11.1	2.8	5.5	0.0	0.0	0.0	3269	3096	0	0	408	0	326	-116
208+00.00	20800	50	10.2	1.5	0.0	0.0	0.0	0.0	15.1	2.8	1.5	0.0	0.0	0.0	3284	3098	0	0	408	0	326	-106
208+50.00	20850	50	0.0	1.5	0.0	0.0	0.0	0.0	9.4	2.8	0.0	0.0	0.0	0.0	3293	3098	0	0	408	0	326	-99
209+00.00	20900	50	0.0	1.5	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	3293	3098	0	0	408	0	326	-102
209+50.00	20950	50	0.0	1.5	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	3293	3098	0	0	408	0	326	-105
210+00.00	21000	50	9.2	1.5	0.0	0.0	0.0	0.0	8.5	2.8	0.0	0.0	0.0	0.0	3302	3098	0	0	408	0	326	-99
210+50.00	21050	50	6.2	1.5	0.0	0.0	0.0	0.0	14.2	2.8	0.0	0.0	0.0	0.0	3316	3098	0	0	408	0	326	-87
211+00.00	21100	50	7.2	1.5	0.0	0.0	0.0	0.0	12.3	2.8	0.0	0.0	0.0	0.0	3328	3098	0	0	408	0	326	-78
211+50.00	21150	50	7.4	1.5	0.0	0.0	0.0	0.0	13.5	2.8	0.0	0.0	0.0	0.0	3342	3098	0	0	408	0	326	-67
212+00.00	21200	50	8.1	1.5	0.0	0.0	0.0	0.0	14.3	2.8	0.0	0.0	0.0	0.0	3356	3098	0	0	408	0	326	-56
212+50.00	21250	50	0.0	1.5	0.0	0.0	0.0	0.0	7.5	2.8	0.0	0.0	0.0	0.0	3364	3098	0	0	408	0	326	-51
213+00.00	21300	50	0.0	1.5	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	3364	3098	0	0	408	0	326	-54
213+50.00	21350	50	0.0	1.5	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	3364	3098	0	0	408	0	326	-57
214+00.00	21400	50	0.0	1.5	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	3364	3098	0	0	408	0	326	-59
214+50.00	21450	50	0.0	1.5	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	3364	3098	0	0	408	0	326	-62
215+00.00	21500	50	0.0	1.5	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	3364	3098	0	0	408	0	326	-65
215+50.00	21550	50	34.0	1.5	0.0	0.0	0.0	0.0	31.5	2.8	0.0	0.0	0.0	0.0	3395	3098	0	0	408	0	326	-36
216+00.00	21600	50	12.4	1.5	1.4	0.0	0.0	0.0	43.0	2.8	1.3	0.0	0.0	0.0	3438	3099	0	0	408	0	326	2
216+50.00	21650	50	9.5	1.5	11.3	0.0	0.0	0.0	20.3	2.8	11.8	0.0	0.0	0.0	3458	3114	0	0	408	0	326	5
217+00.00	21700	50	11.3	1.5	5.3	0.0	0.0	0.0	19.3	2.8	15.4	0.0	0.0	0.0	3478	3133	0	0	408	0	326	3
217+50.00	21750	50	13.4	1.5	0.4	0.0	0.0	0.0	22.9	2.8	5.3	0.0	0.0	0.0	3500	3140	0	0	408	0	326	16
218+00.00	21800	50	15.3	1.5	0.0	0.0	0.0	0.0	26.6	2.8	0.4	0.0	0.0	0.0	3527	3140	0	0	408	0	326	39
218+50.00	21850	50	13.5	1.5	0.0	0.0	0.0	0.0	26.7	2.8	0.0	0.0	0.0	0.0	3554	3140	0	0	408	0	326	63
219+00.00	21900	50	12.4	1.5	0.0	0.0	0.0	0.0	24.0	2.8	0.0	0.0	0.0	0.0	3578	3140	0	0	408	0	326	85
219+50.00	21950	50	19.8	1.5	0.0	0.0	0.0	0.0	29.8	2.8	0.0	0.0	0.0	0.0	3608	3140	0	0	408	0	326	112
219+91.80	21992	42	0.0	1.5	0.0	0.0	0.0	0.0	15.3	2.3	0.0	0.0	0.0	0.0	3623	3140	0	0	408	0	326	125
								STAGE 6 COLUMN SUBTOTALS (3 OF 3)	458	91	133	0	0	0								
								STAGE 1 & 6 COLUMN TOTALS	3623	358	2838	0	0	408								

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

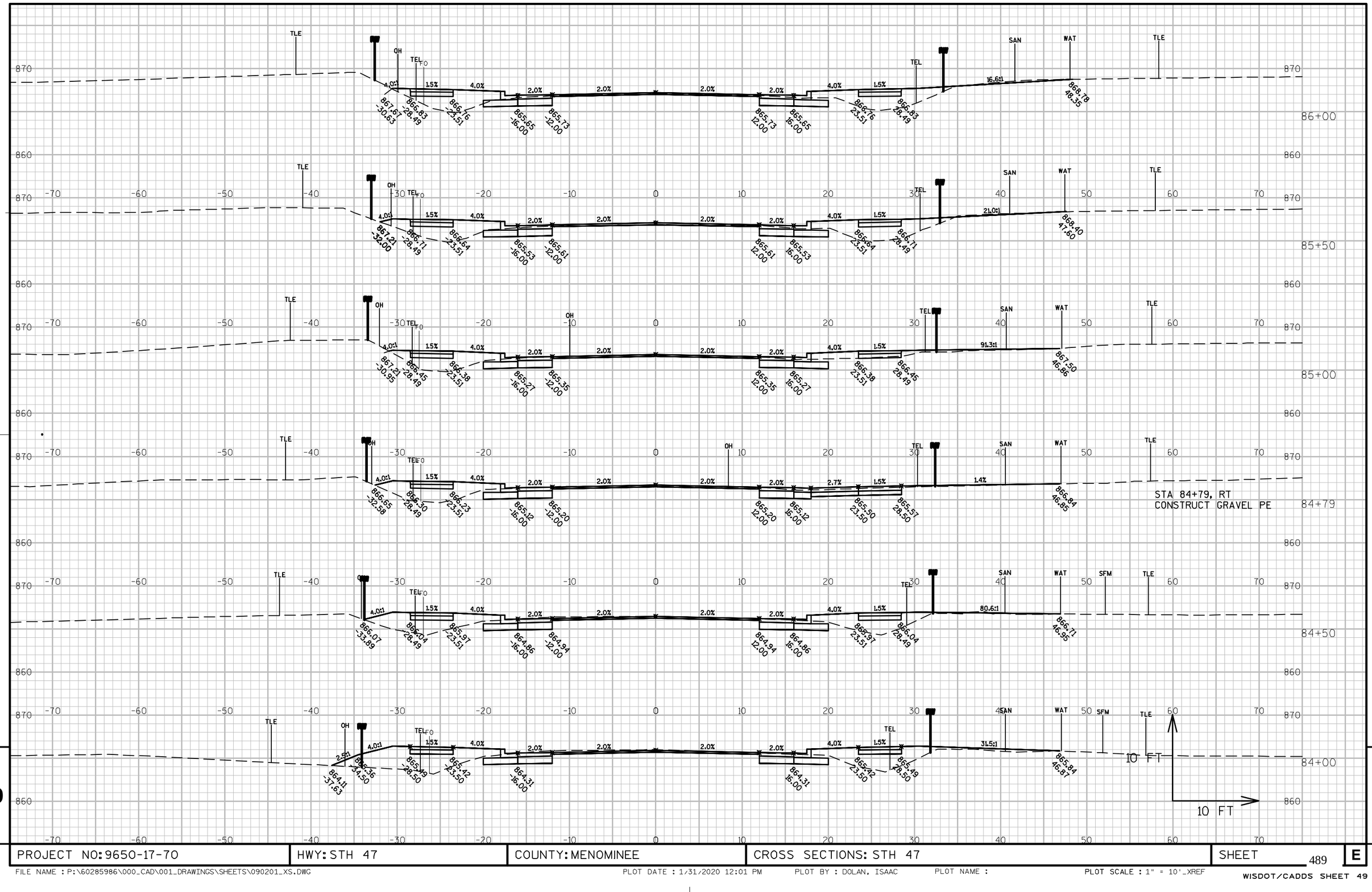
STA 83+26, LT
CONSTRUCT URBAN INTERSECTION
MATCH EXISTING
SAWCUT REQUIRED

BEGIN PROJECT 9650-17-70
STA 82+45.00
MATCH EXISTING - SAWCUT REQUIRED

10 FT
10 FT

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 488 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090201_XS.DWG
PLOT DATE : 1/31/2020 12:01 PM
PLOT BY : DOLAN, ISAAC
PLOT NAME :
PLOT SCALE : 1" = 10'_XREF
WISDOT/CADDS SHEET 49



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 489 E

STA 87+76, RT
CONSTRUCT GRAVEL PE
REMOVING SMALL PIPE CULVERTS

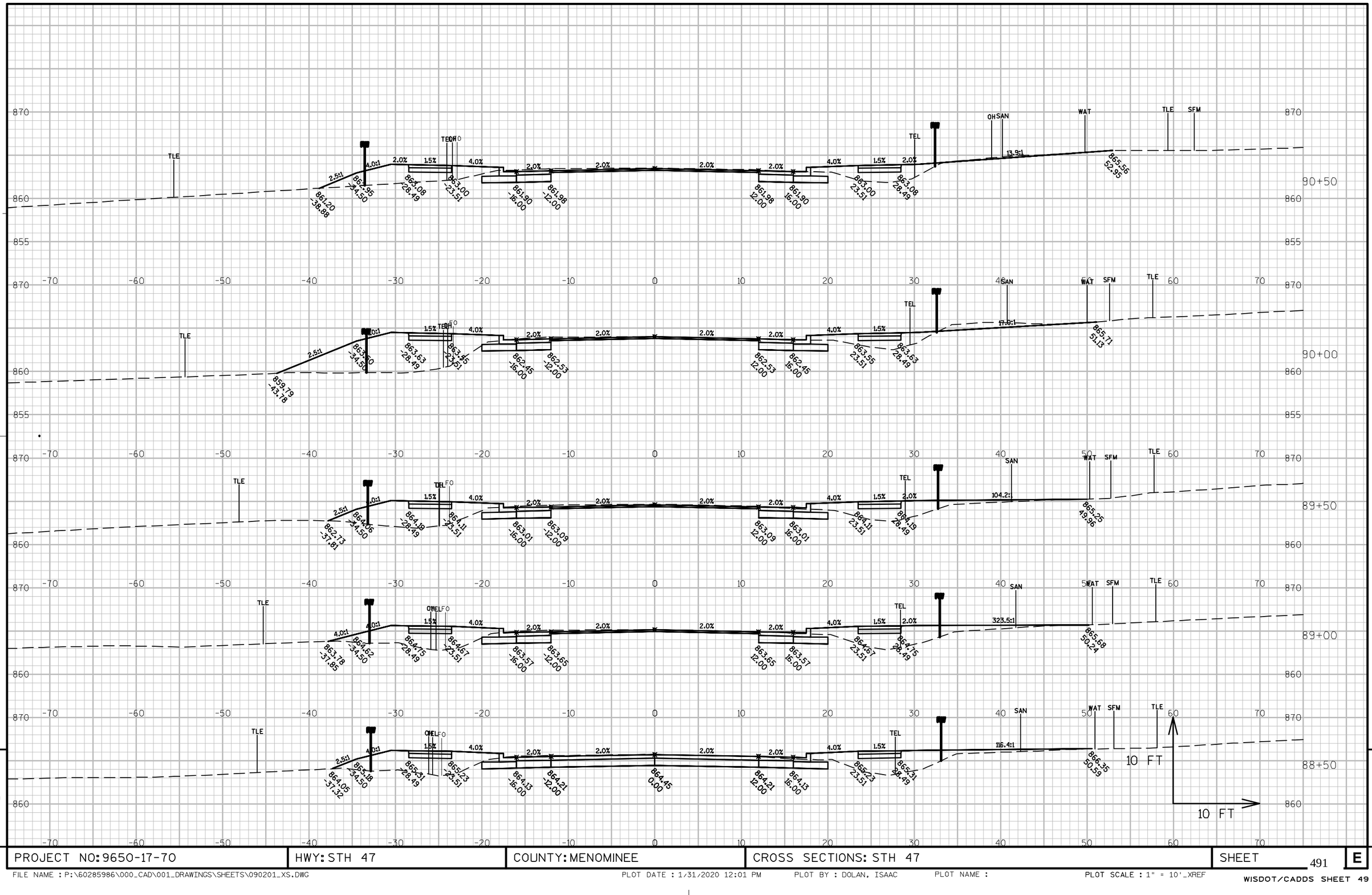
STA 86+61, LT
CONSTRUCT GRAVEL PE
REMOVING SMALL PIPE CULVERTS

10 FT
10 FT

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 490	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090201_XS.DWG PLOT DATE : 1/31/2020 12:01 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1" = 10'_XREF

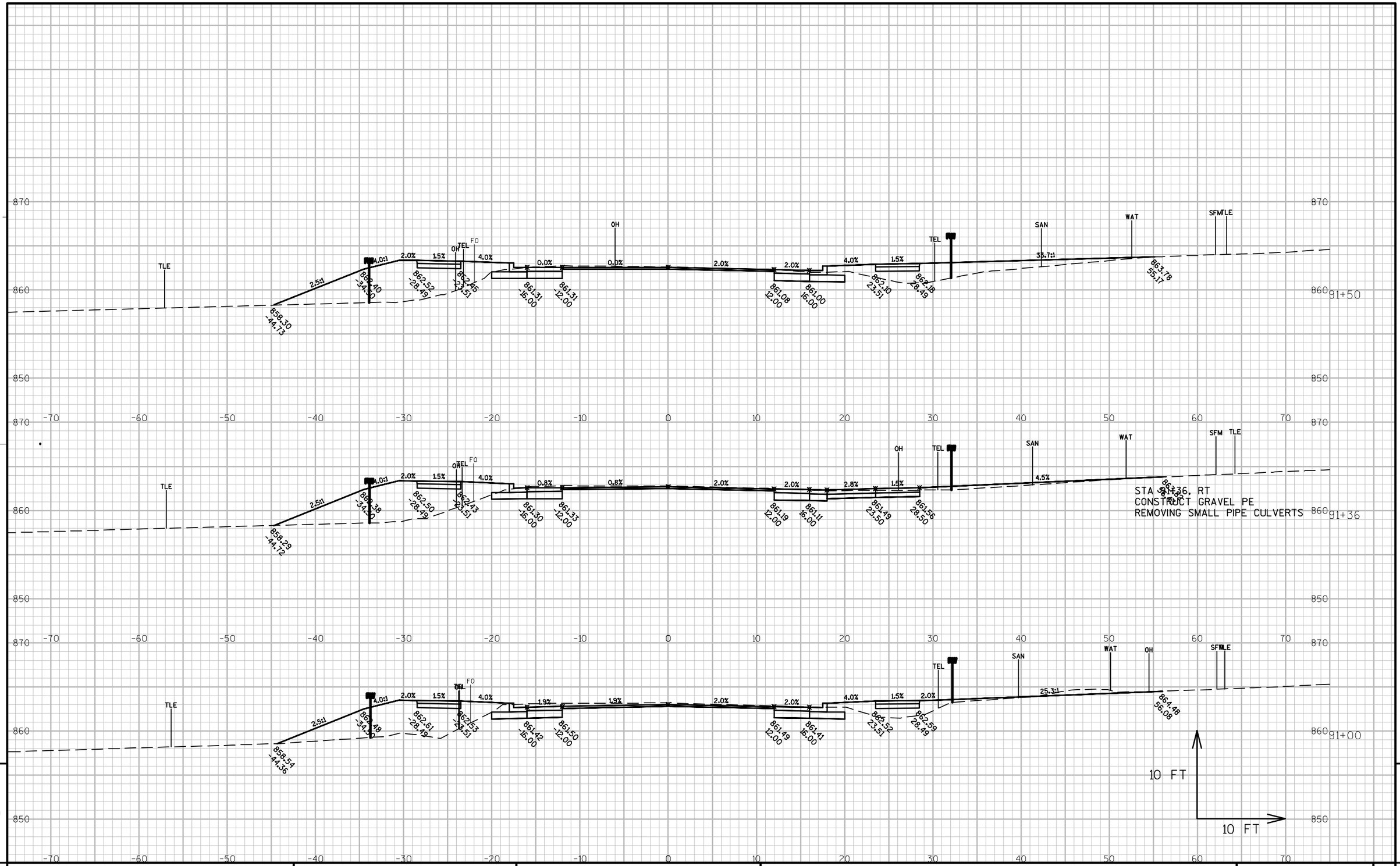
WISDOT/CADDS SHEET 49



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 491 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090201_XS.DWG PLOT DATE : 1/31/2020 12:01 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1" = 10'_XREF

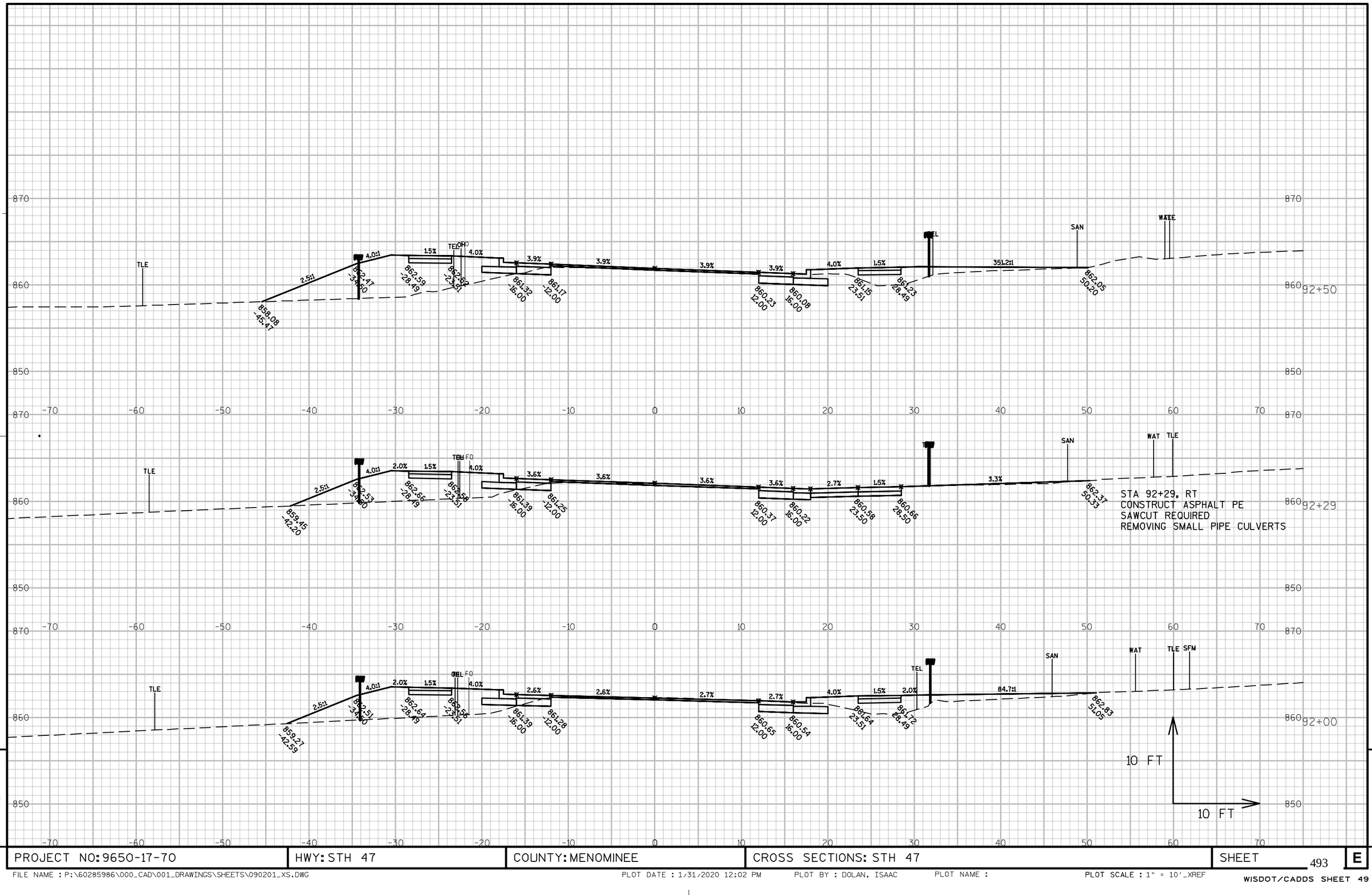
WISDOT/CADDS SHEET 49



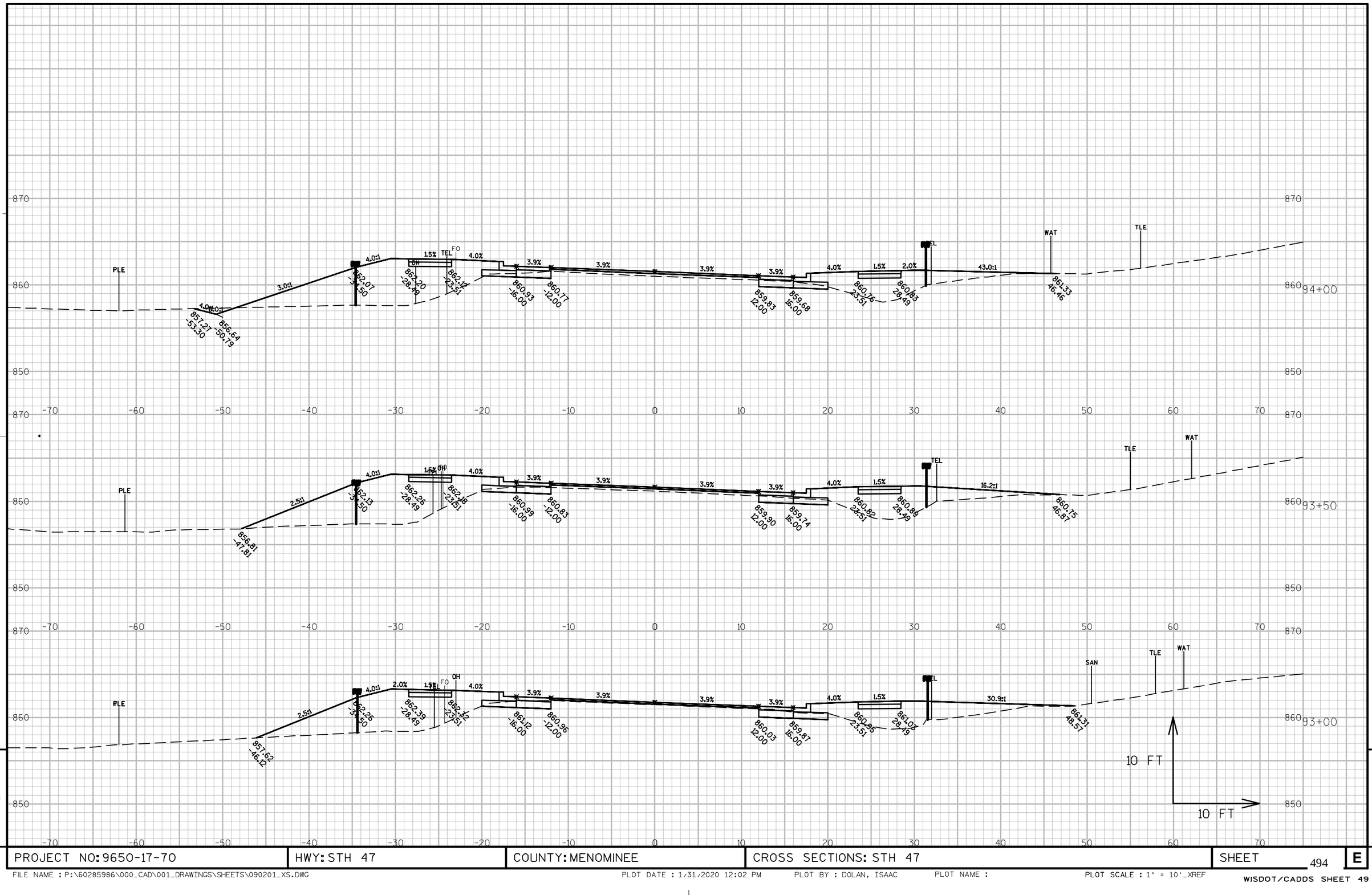
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 492	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090201_XS.DWG PLOT DATE : 1/31/2020 12:02 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 493 E



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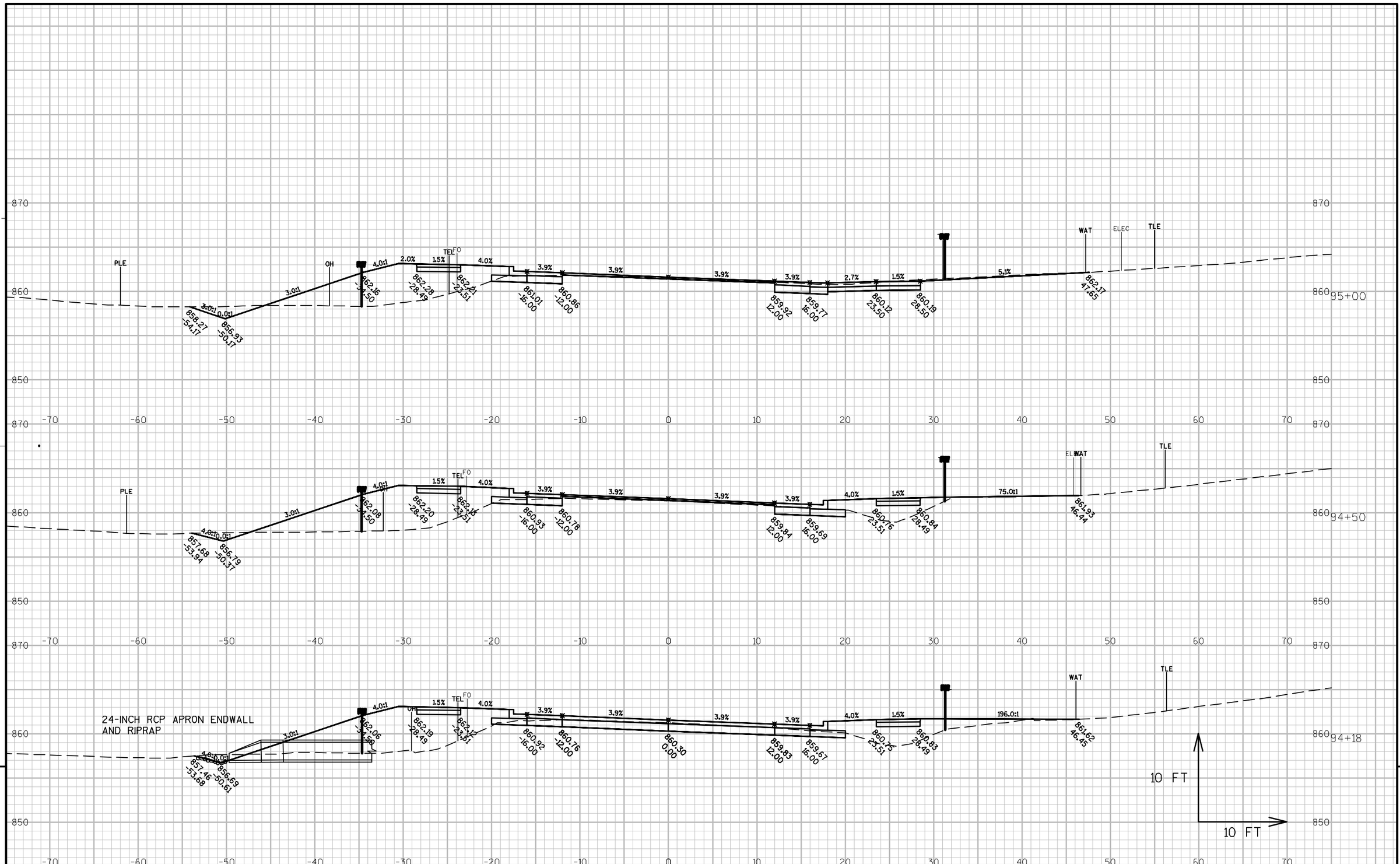
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 494	E

9

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090201_XS.DWG PLOT DATE : 1/31/2020 12:02 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1" = 10'_XREF

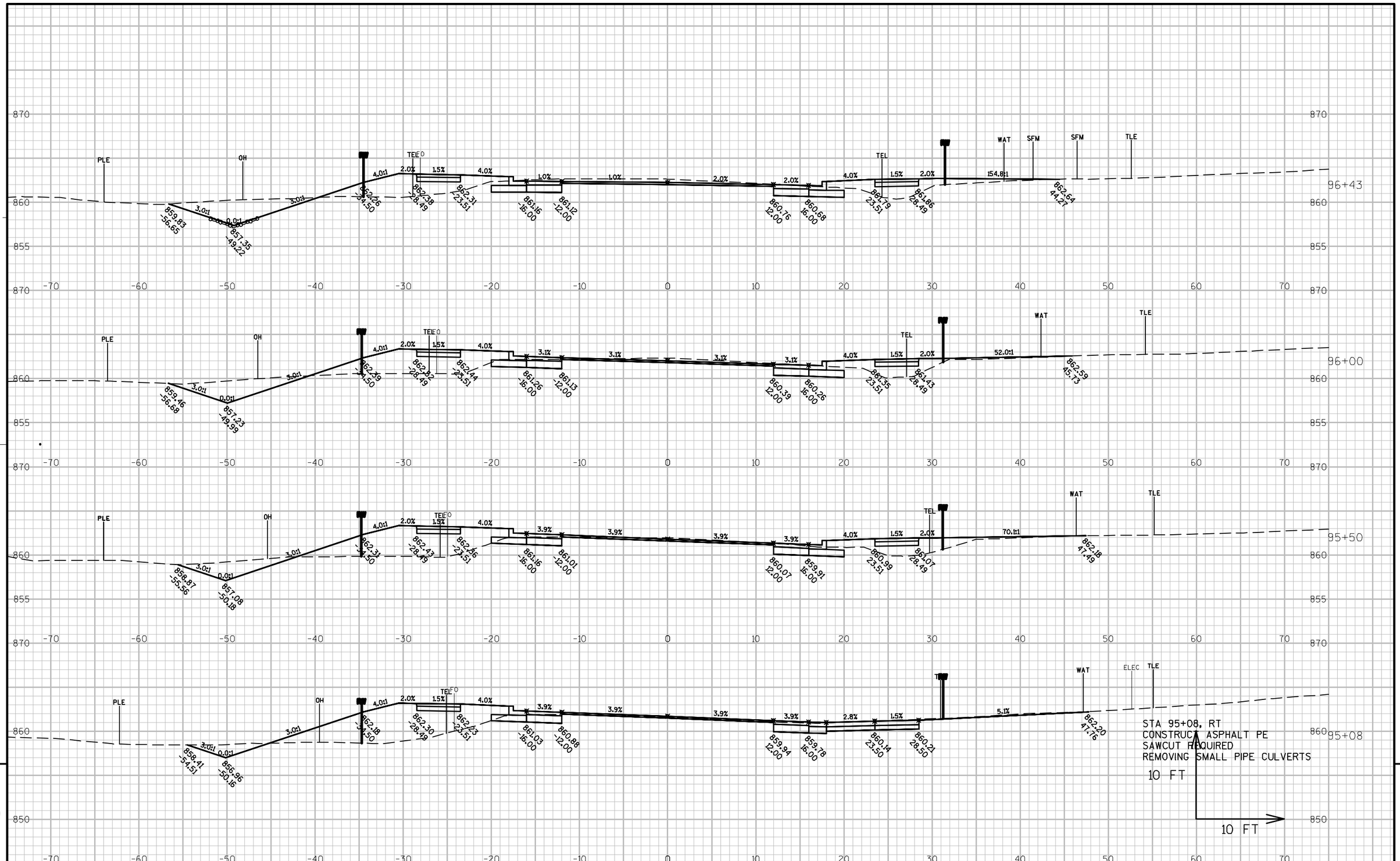
WISDOT/CADDS SHEET 49



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 495	E

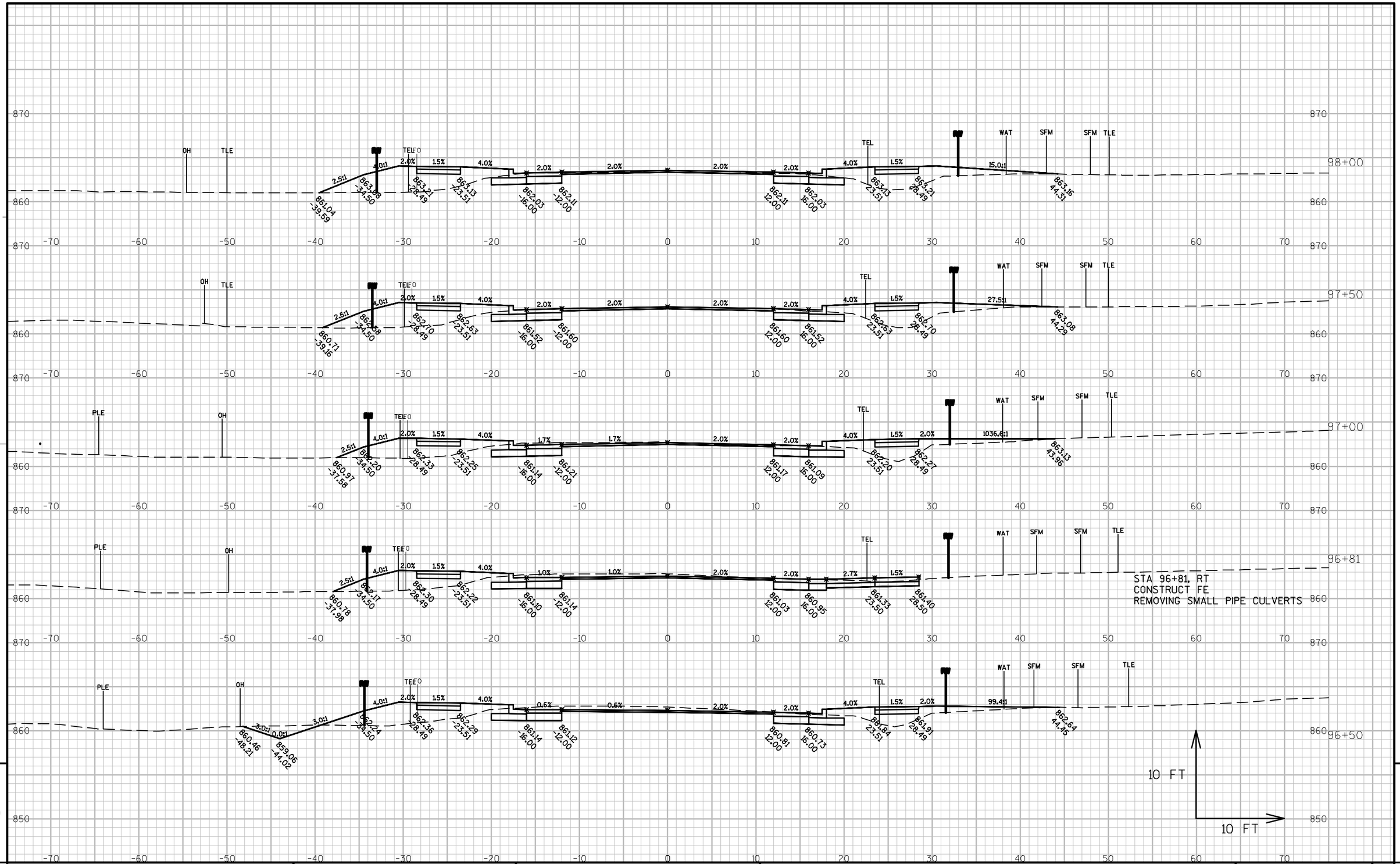
FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090201_XS.DWG PLOT DATE : 1/31/2020 12:02 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 496	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090201_XS.DWG PLOT DATE : 1/31/2020 12:03 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1" = 10'_XREF
WISDOT/CADDS SHEET 49



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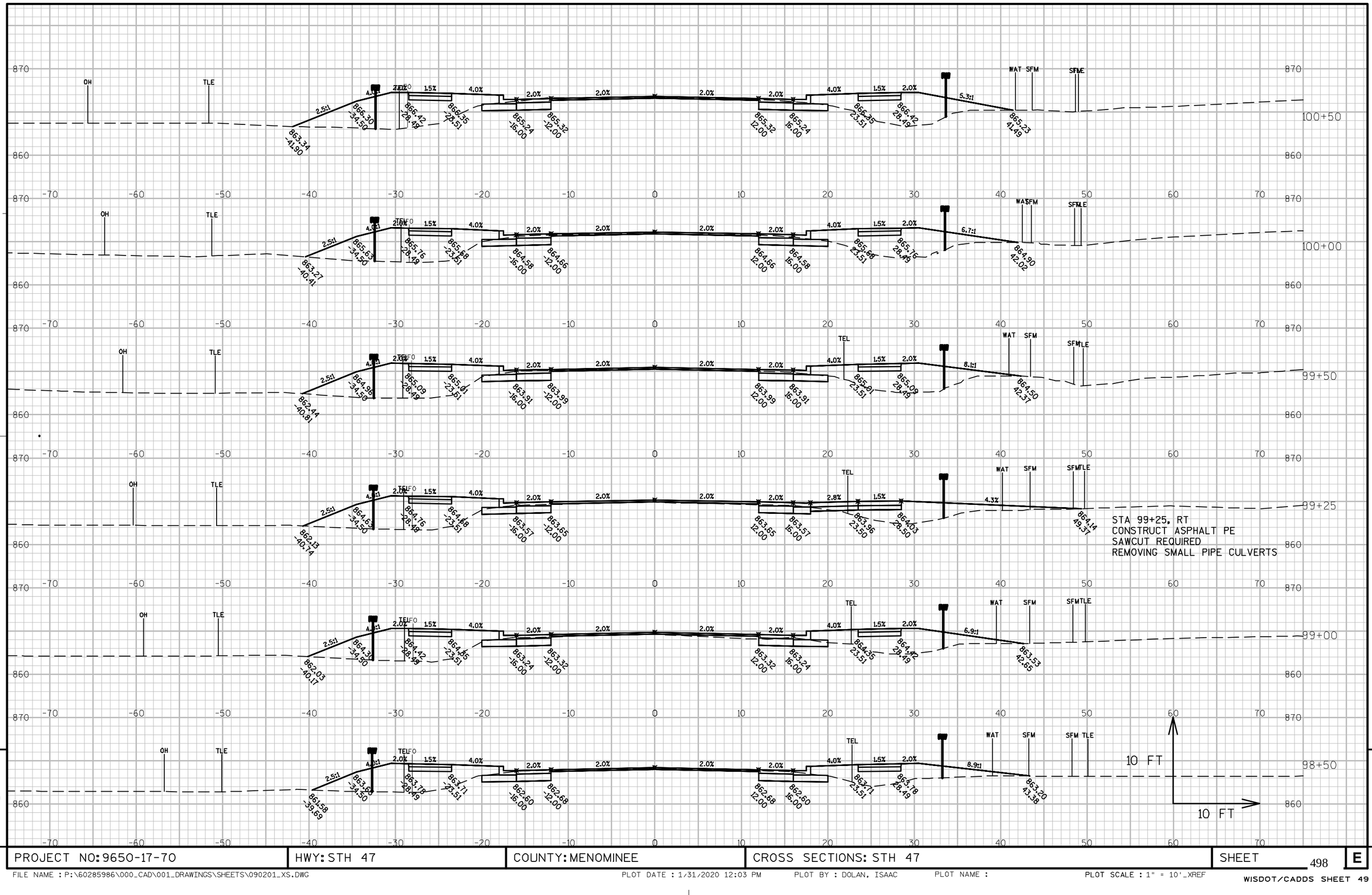
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 497	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090201_XS.DWG PLOT DATE : 1/31/2020 12:03 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49

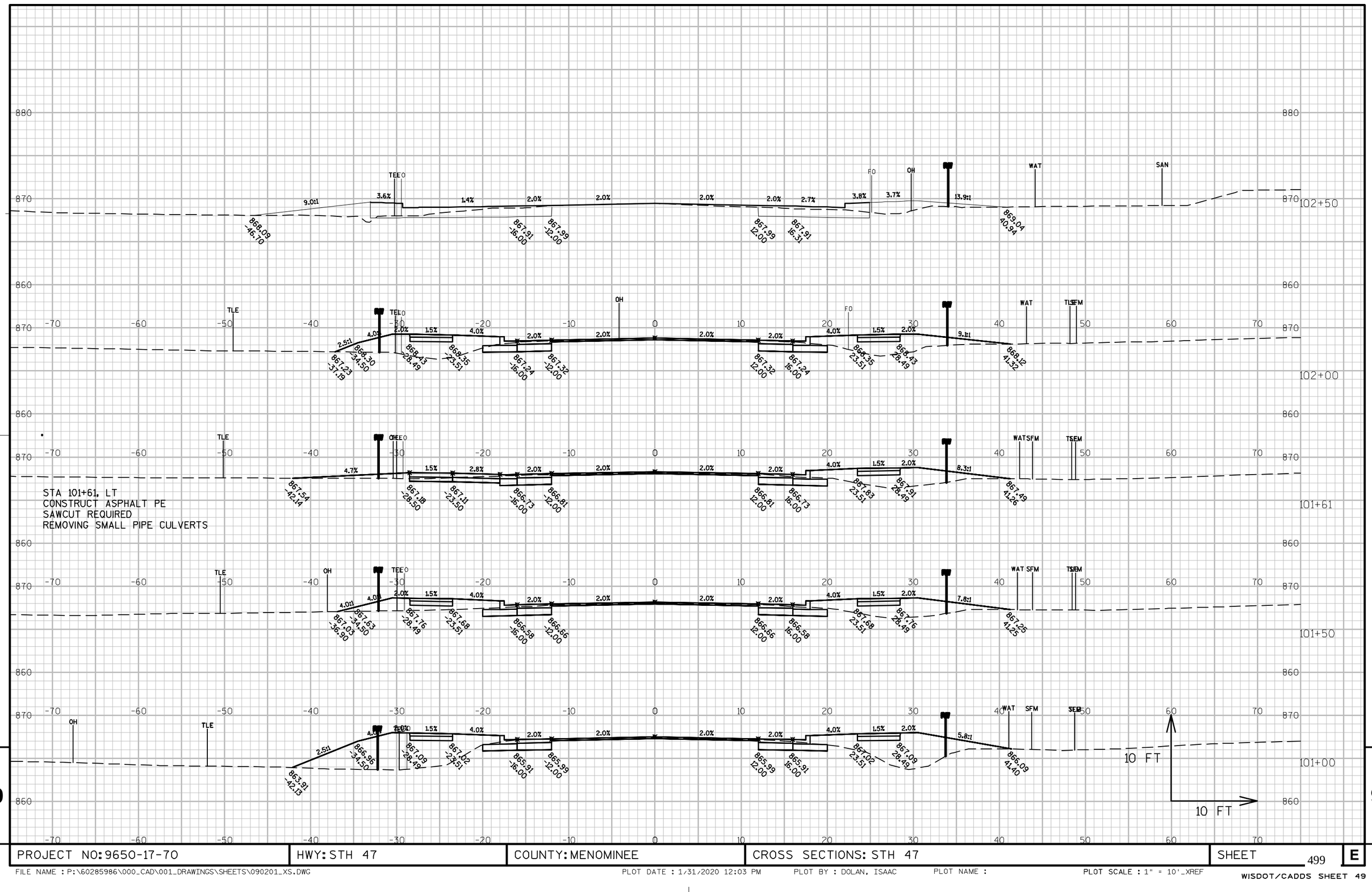


PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 498	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090201_XS.DWG PLOT DATE : 1/31/2020 12:03 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49

STA 101+61, LT
CONSTRUCT ASPHALT PE
SAWCUT REQUIRED
REMOVING SMALL PIPE CULVERTS



9

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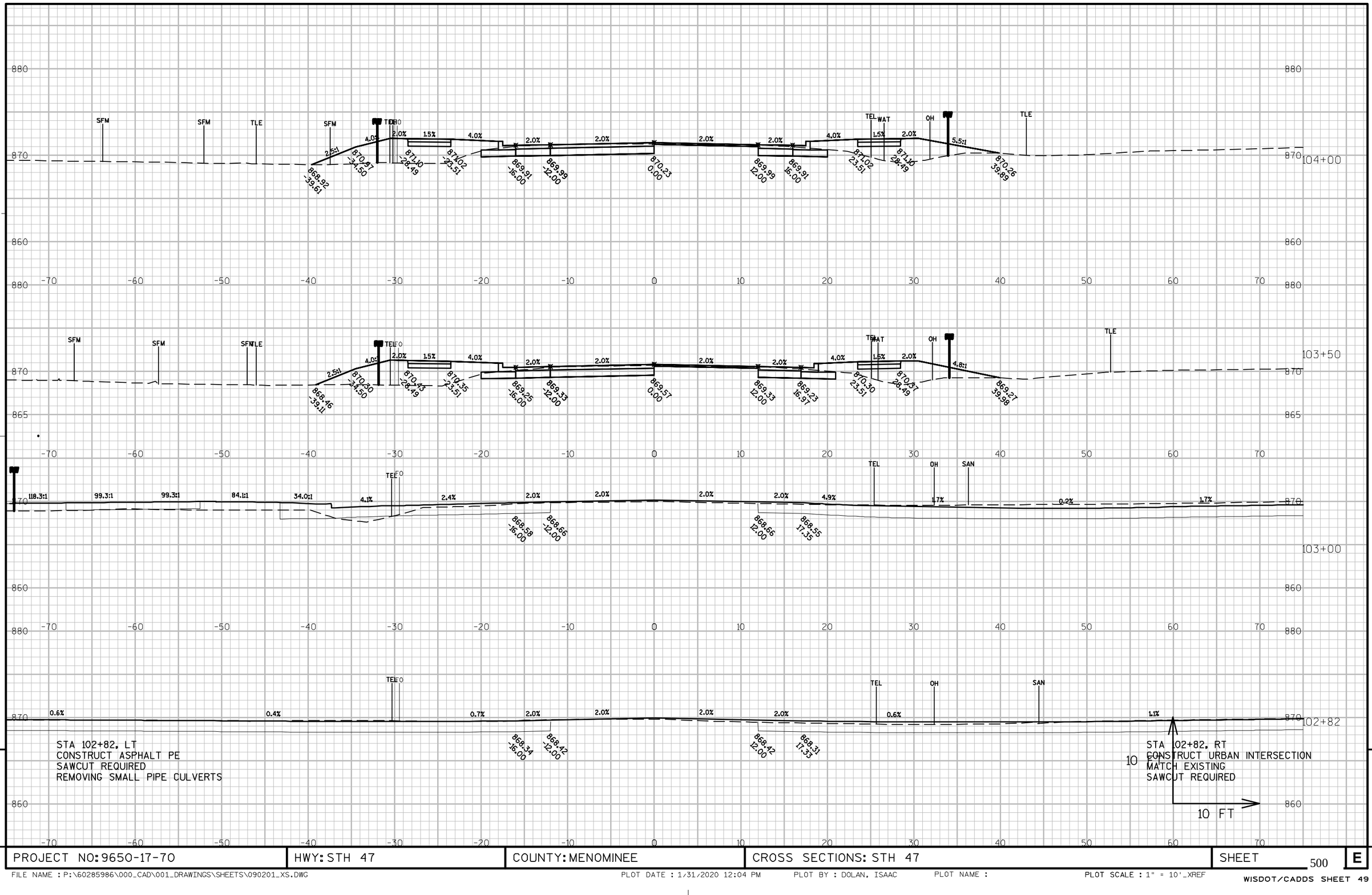
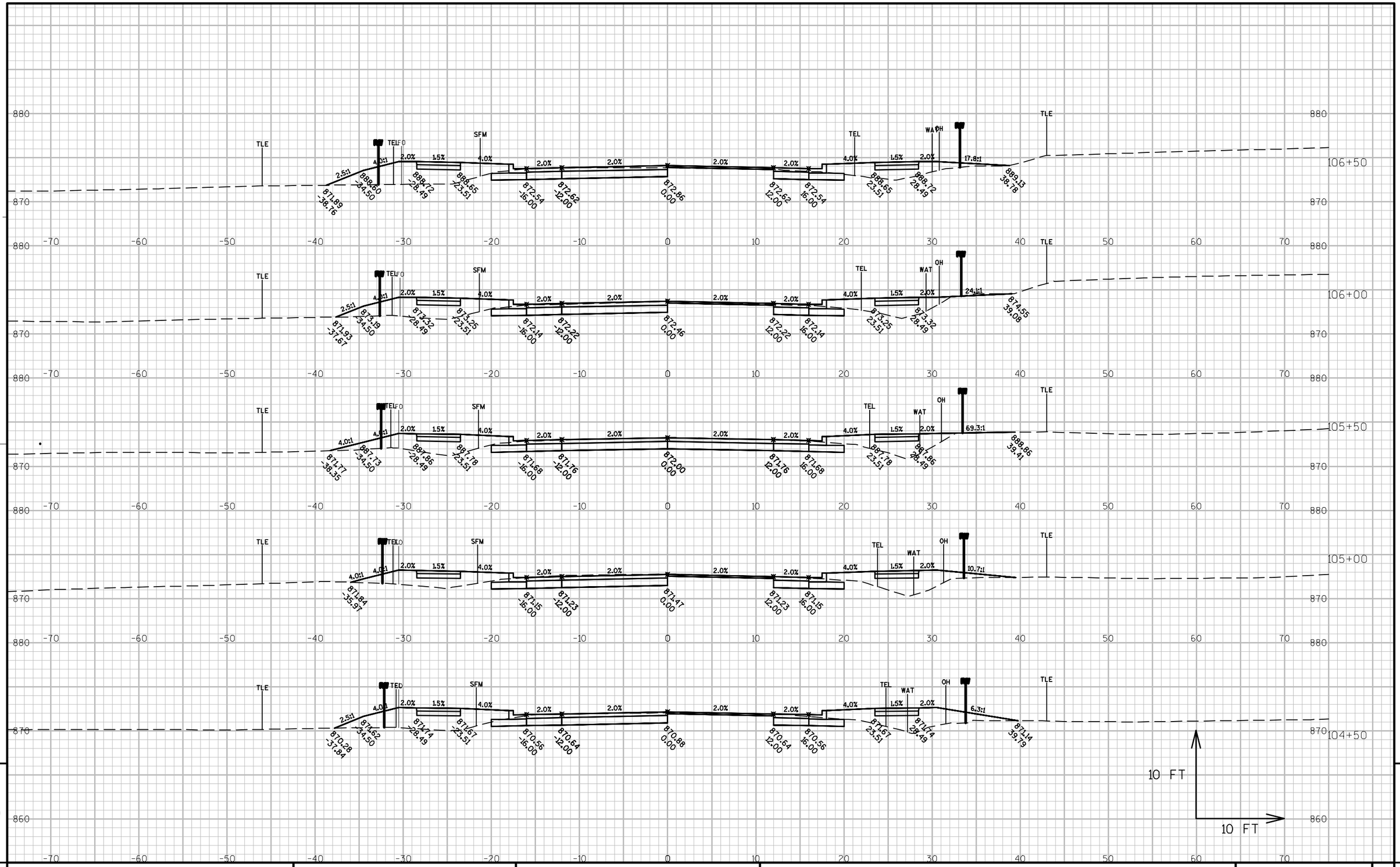
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 499	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090201_XS.DWG PLOT DATE : 1/31/2020 12:03 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1" = 10'_XREF
WISDOT/CADDS SHEET 49



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 500	E

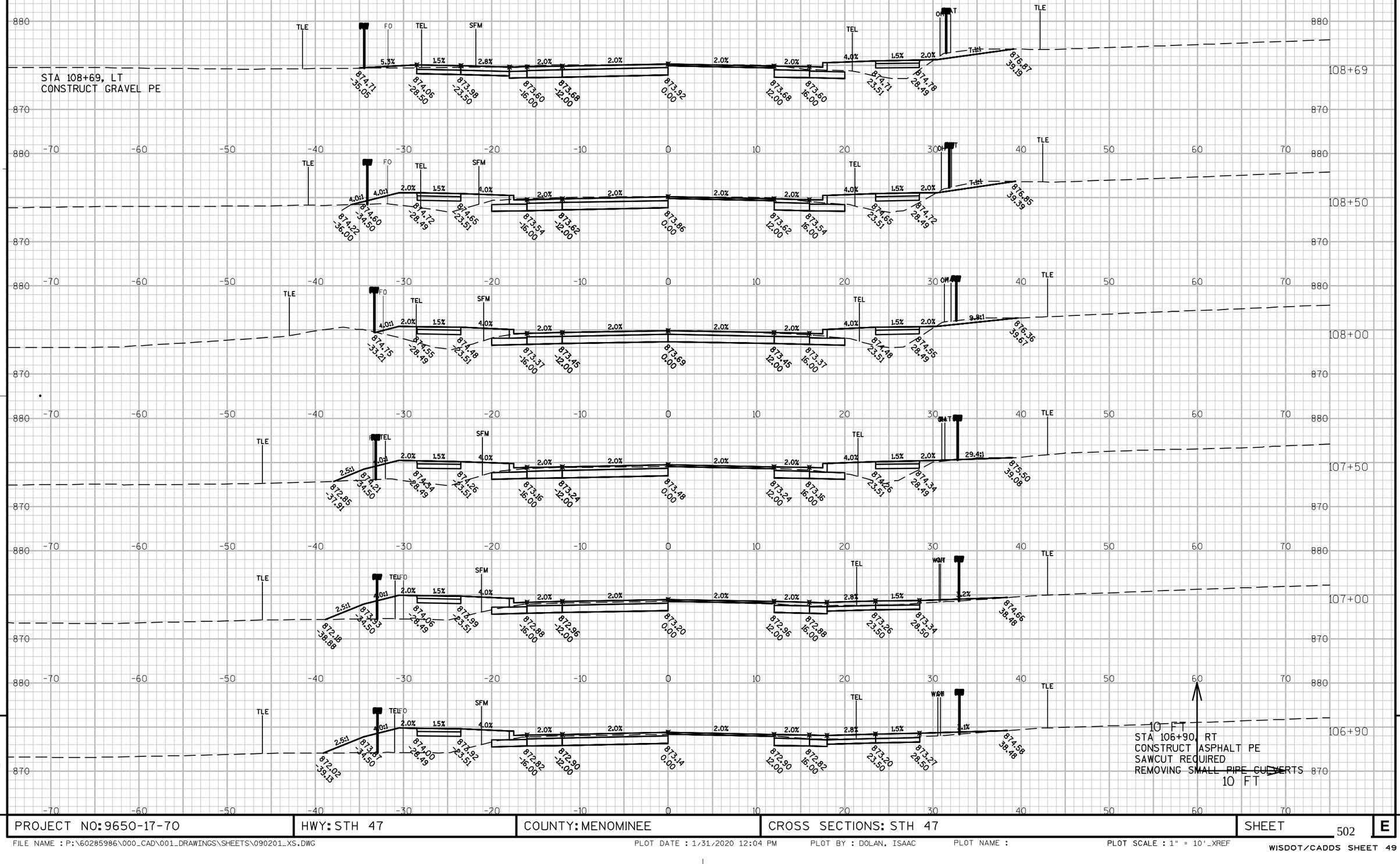


PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 501 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090201_XS.DWG PLOT DATE : 1/31/2020 12:04 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49

STA 108+69, LT
CONSTRUCT GRAVEL PE



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 502	E

STA 110+71, RT
CONSTRUCT ASPHALT PE
SAWCUT REQUIRED

10 FT
10 FT

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 503 E

STA 112+32, LT
CONSTRUCT GRAVEL PE

STA 112+20, RT
CONSTRUCT URBAN INTERSECTION
MATCH EXISTING
SAWCUT REQUIRED

STA 111+31, RT
CONSTRUCT ASPHALT PE
SAWCUT REQUIRED

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 504 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090201_XS.DWG PLOT DATE : 1/31/2020 12:05 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49

STA 114+20, LT
CONSTRUCT GRAVEL PE

DRAINAGE DITCH-STA 113+12, LT
30" RCP APRON ENDWALL AND RIPRAP

10 FT
10 FT

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 505	E

STA 116+29, RT
CONSTRUCT CONCRETE PE
SAWCUT REQUIRED

STA 114+86, RT
CONSTRUCT GRAVEL PE

10 FT
10 FT

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 506 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090201_XS.DWG PLOT DATE : 1/31/2020 12:05 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49

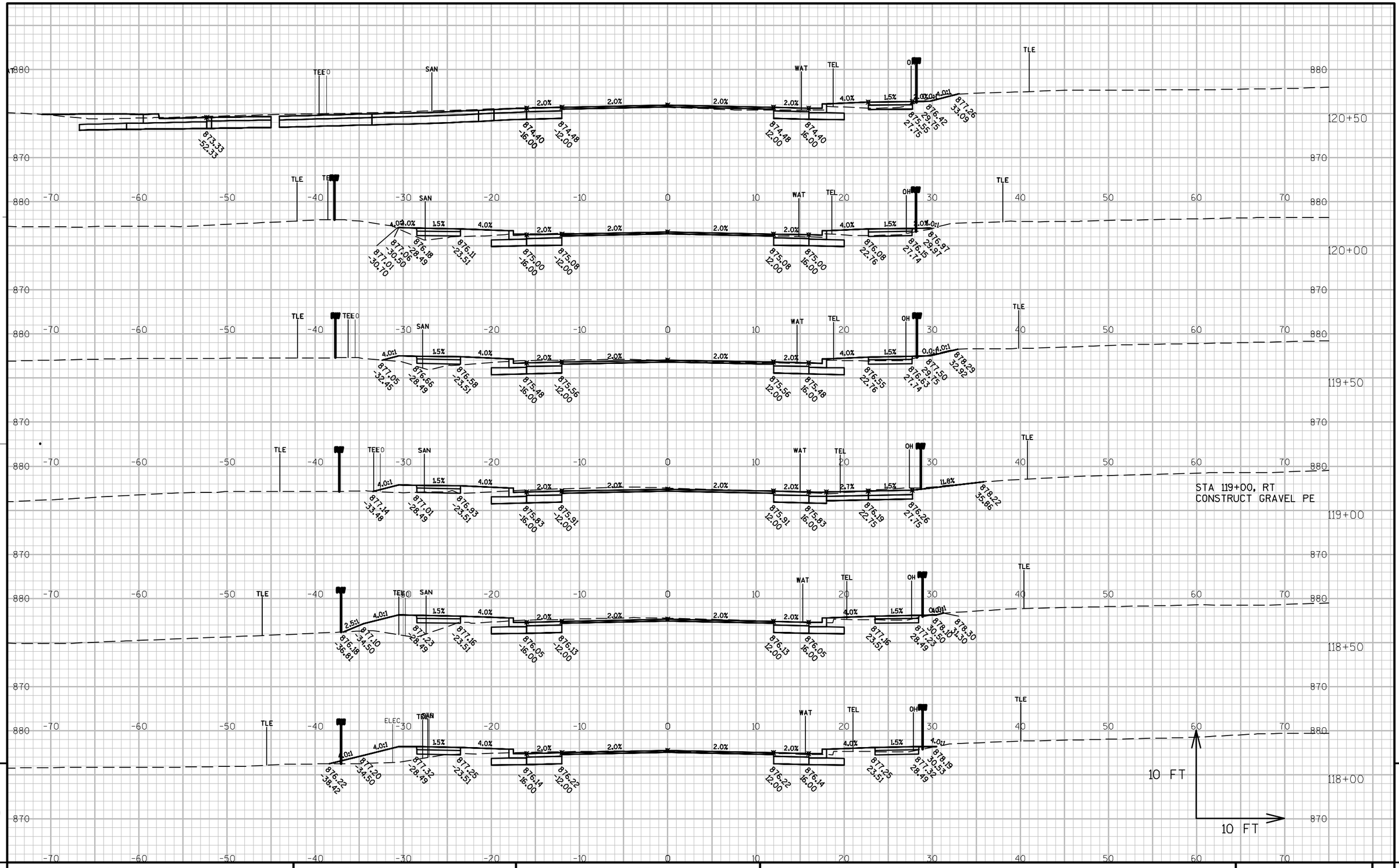
STA 117+80, RT
CONSTRUCT GRAVEL PE

STA 117+27, LT
CONSTRUCT GRAVEL PE

STA 116+76, RT
CONSTRUCT FE

10 FT
10 FT

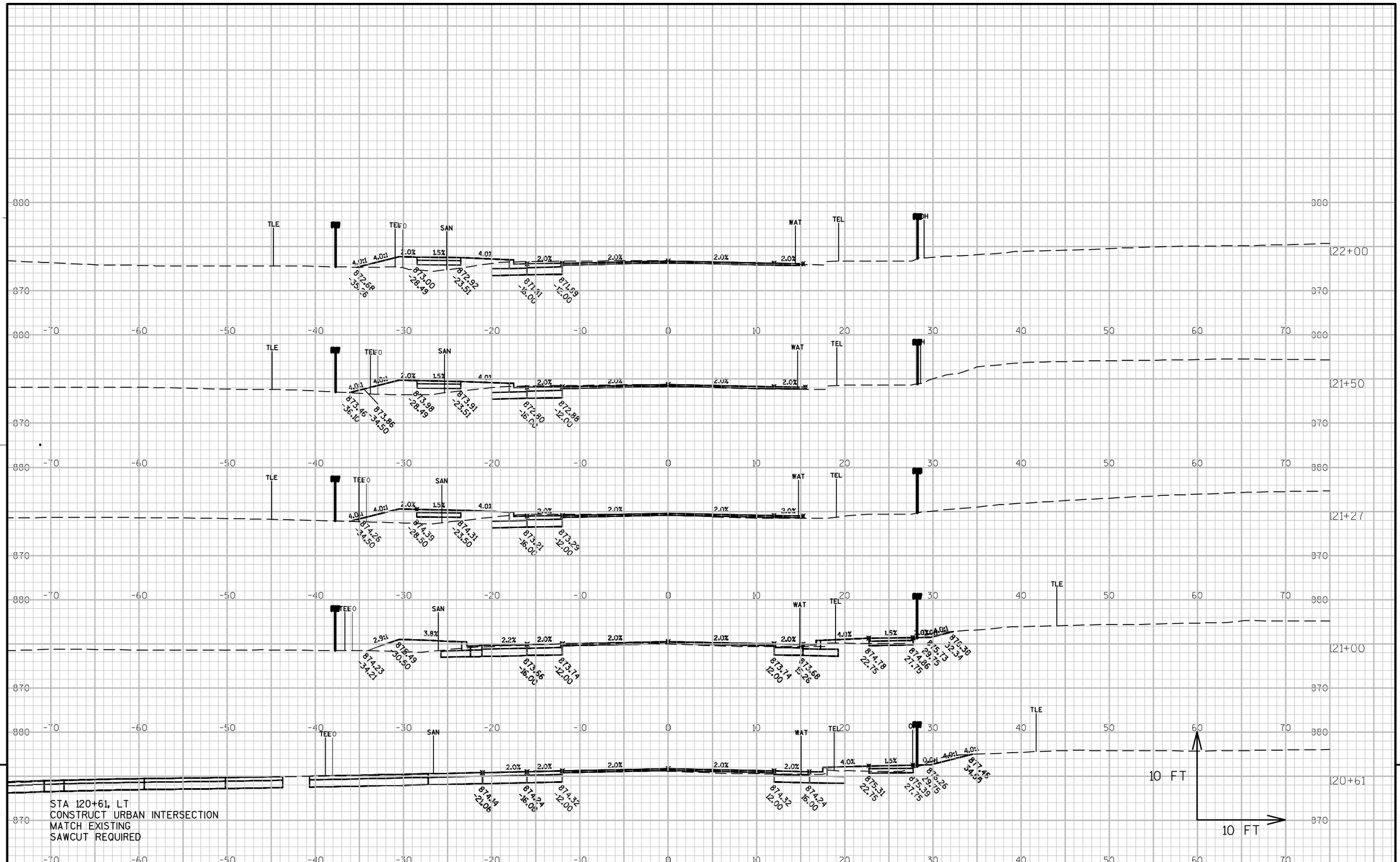
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 507	E



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 508	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090201_XS.DWG PLOT DATE : 1/31/2020 12:06 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49

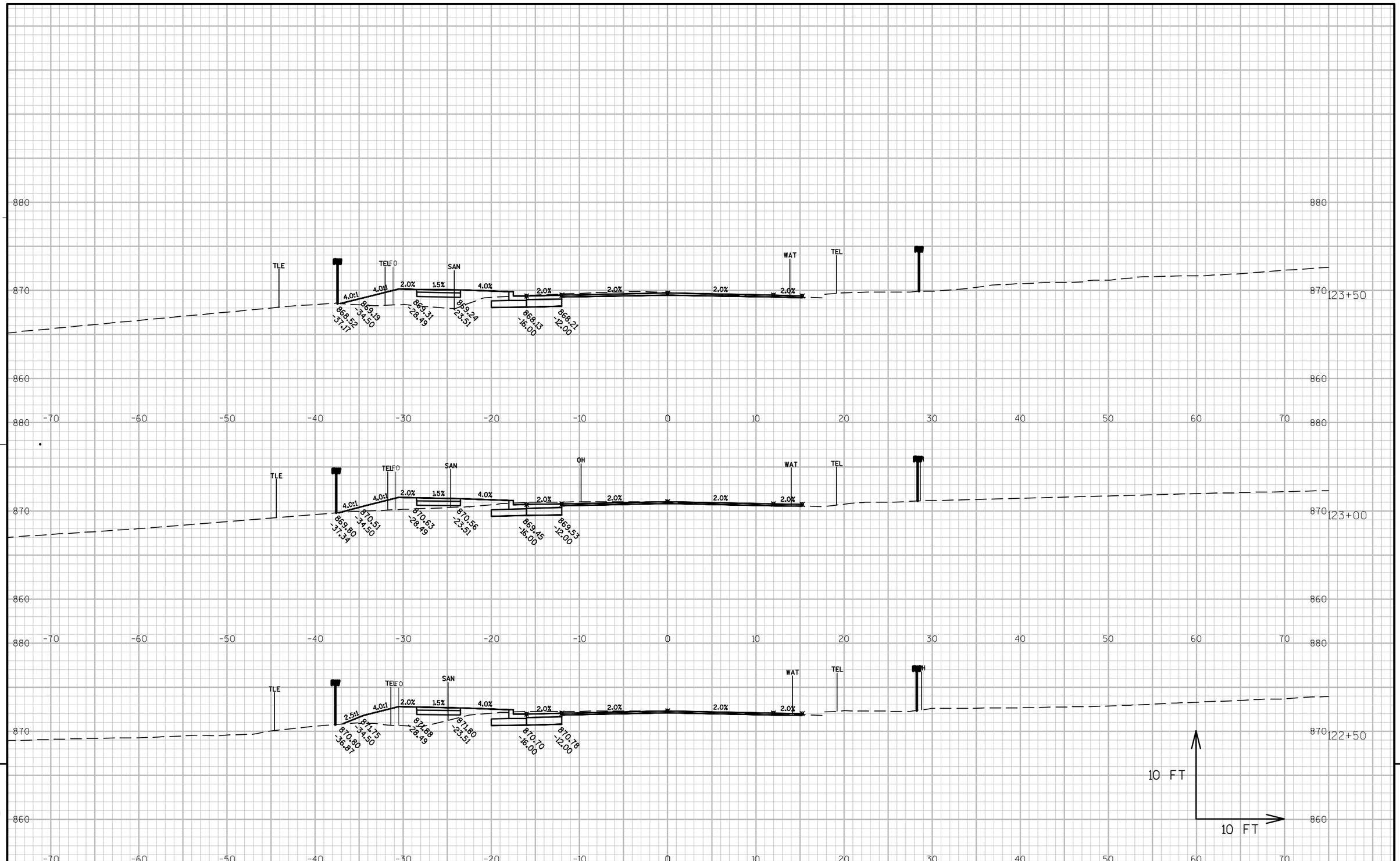


STA 120+61, LT
CONSTRUCT URBAN INTERSECTION
MATCH EXISTING
SAWCUT REQUIRED

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 509 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090201_XS.DWG PLOT DATE : 1/31/2020 12:06 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1" = 10'_XREF

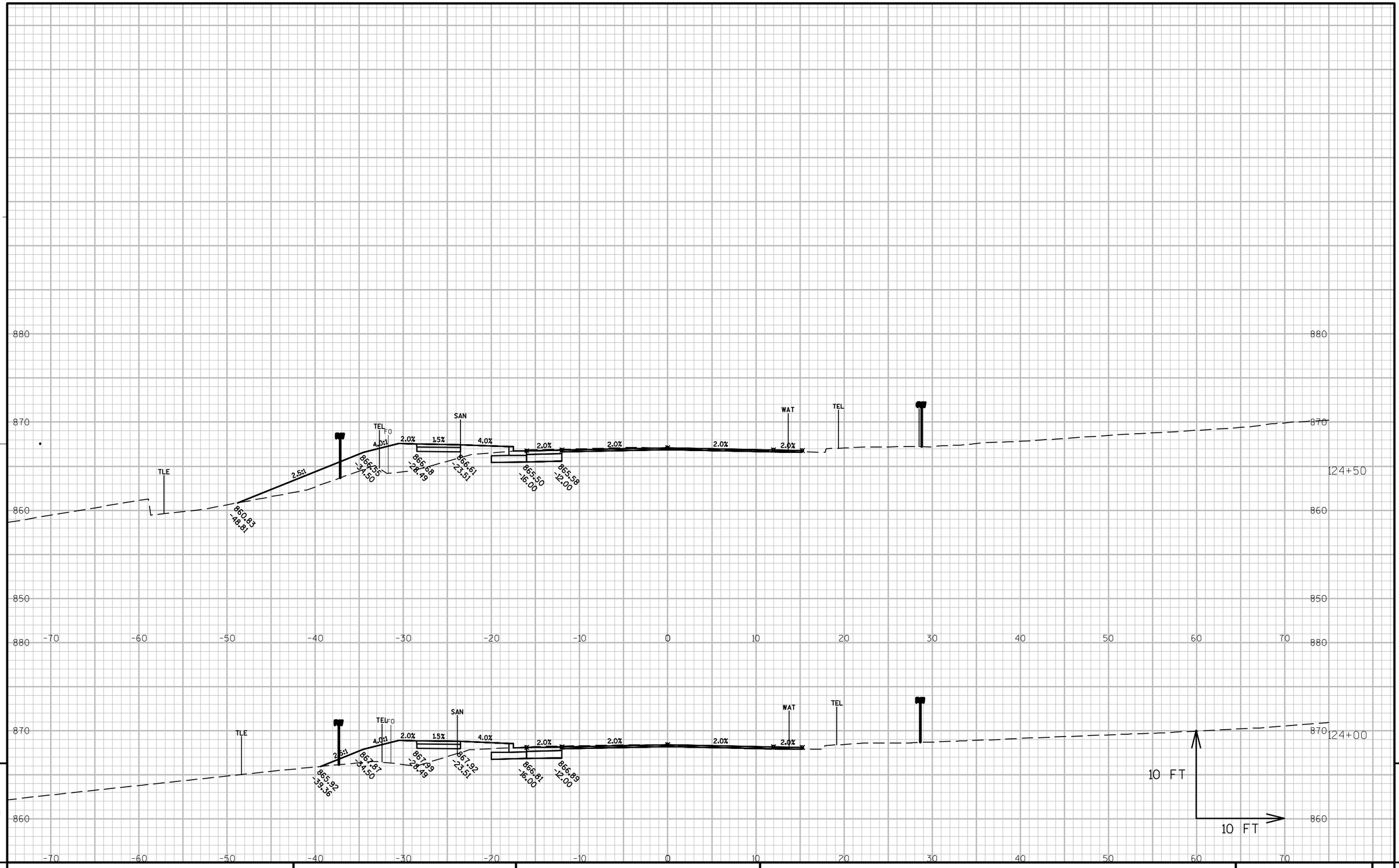
WISDOT/CADDS SHEET 49



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 510	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090201_XS.DWG PLOT DATE : 1/31/2020 12:07 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



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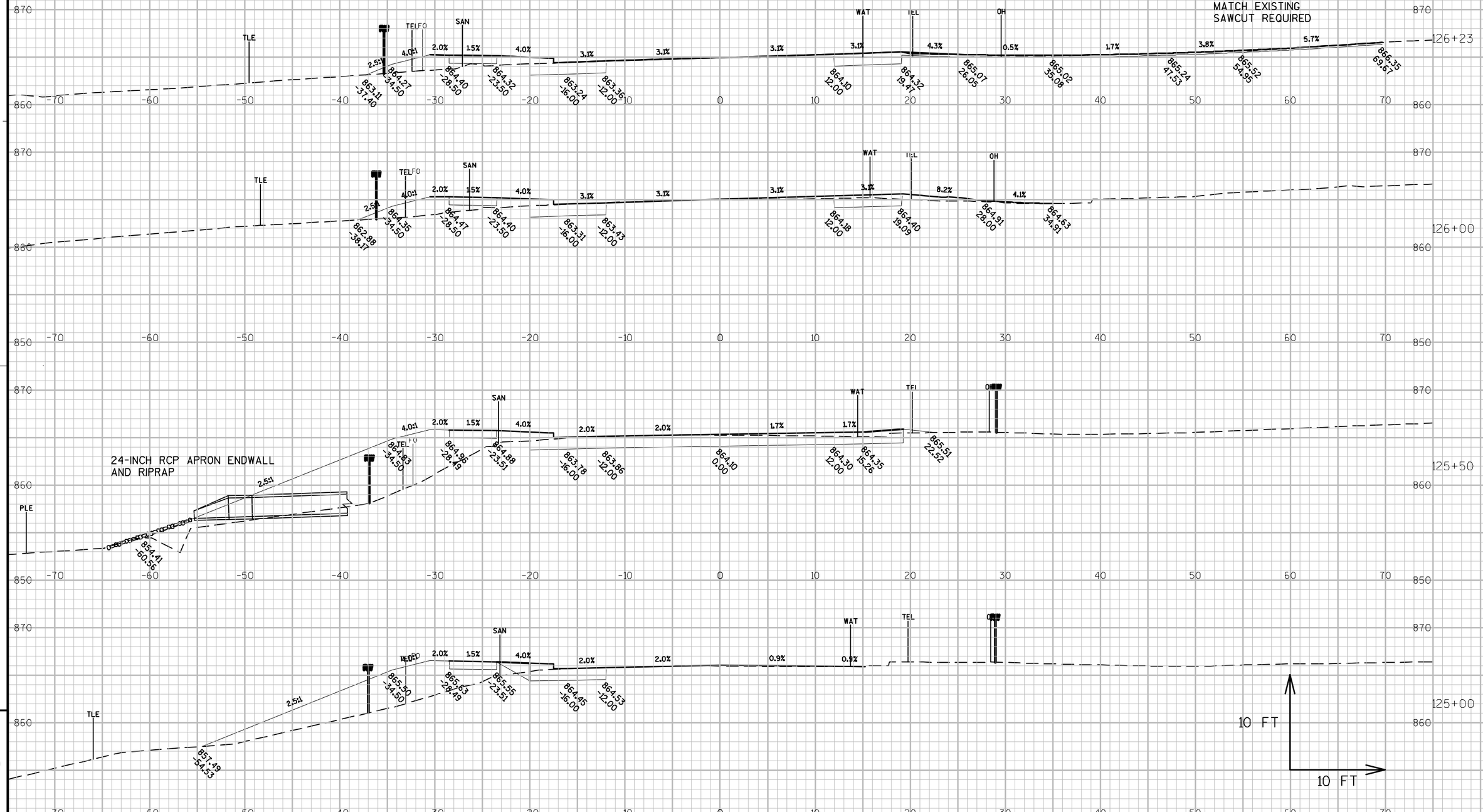
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 511	E

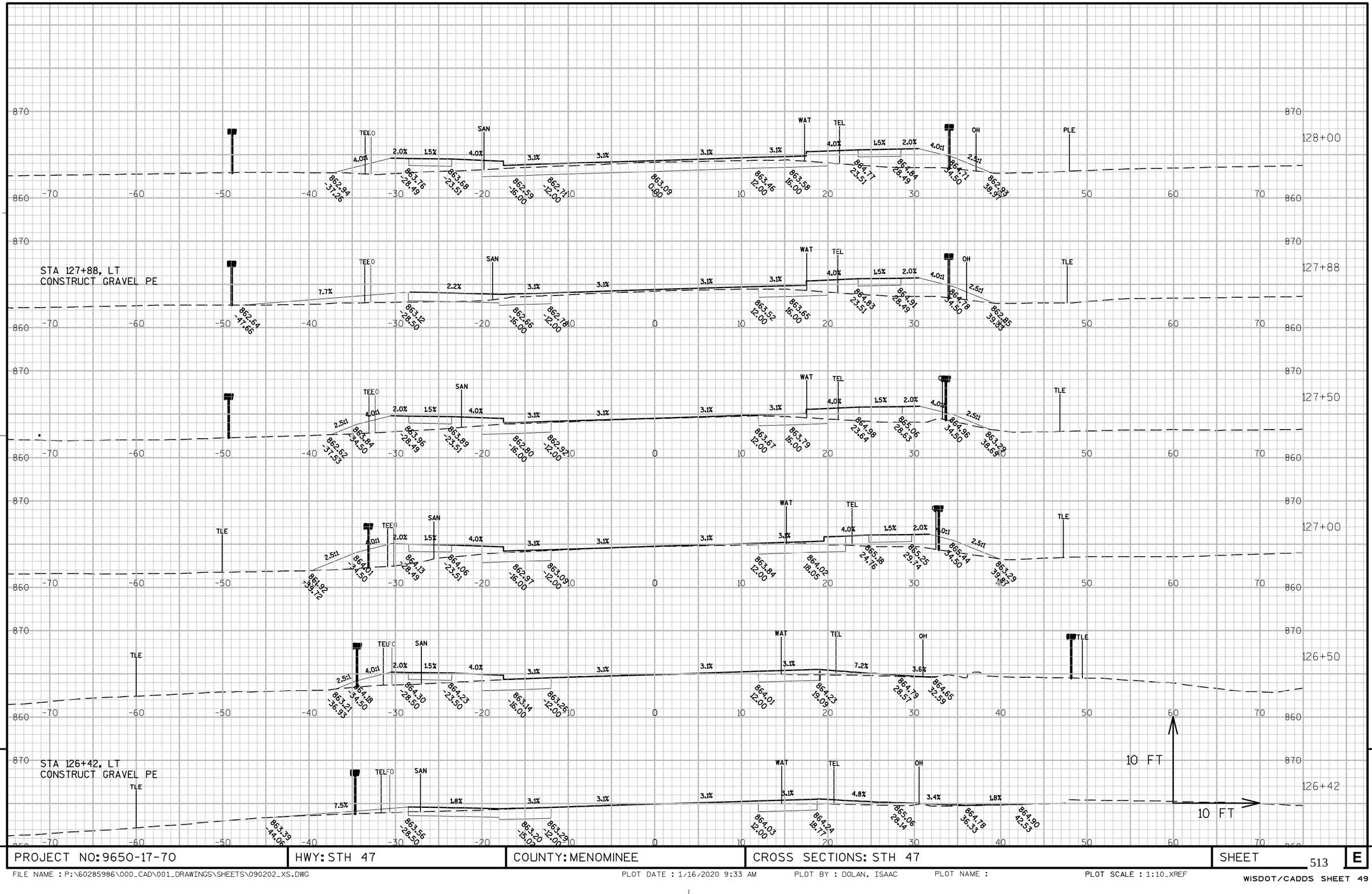
FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090201_XS.DWG PLOT DATE : 1/31/2020 12:07 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1" = 10'_XREF
WISDOT/CADDS SHEET 49

STA 126+23, RT
CONSTRUCT URBAN INTERSECTION
MATCH EXISTING
SAWCUT REQUIRED



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 512	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090202_XS.DWG
PLOT DATE : 1/16/2020 9:33 AM
PLOT BY : DOLAN, ISAAC
PLOT NAME :
PLOT SCALE : 1:10_XREF
WISDOT/CADDS SHEET 49



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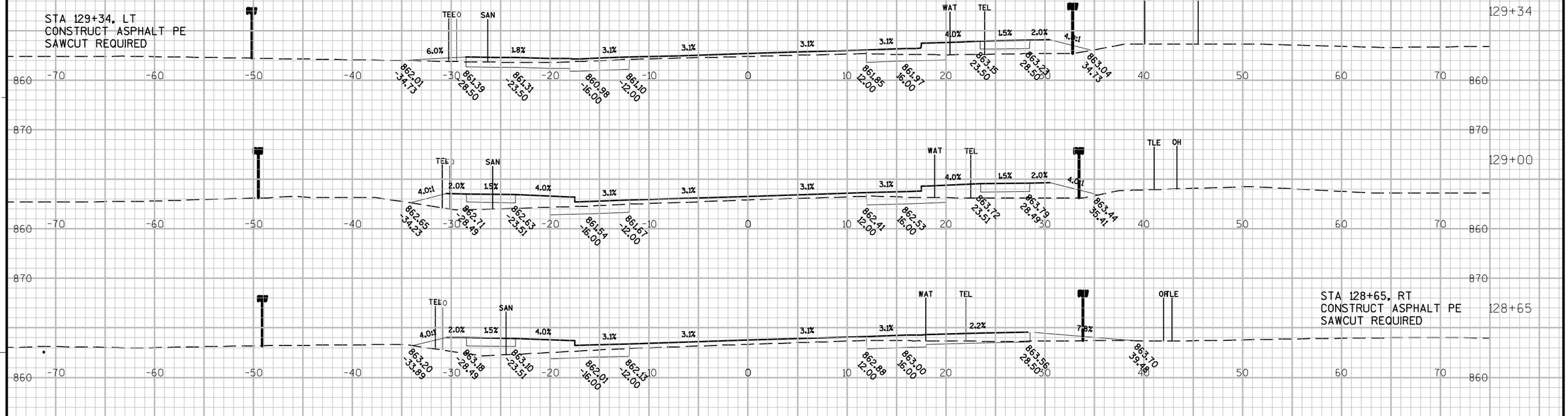
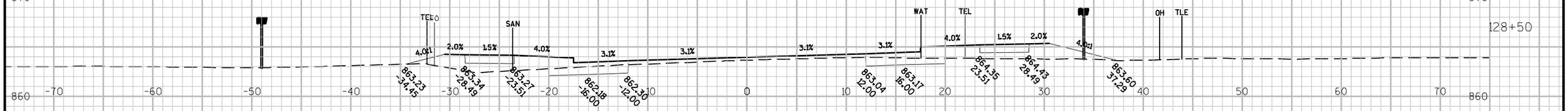
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 513	E

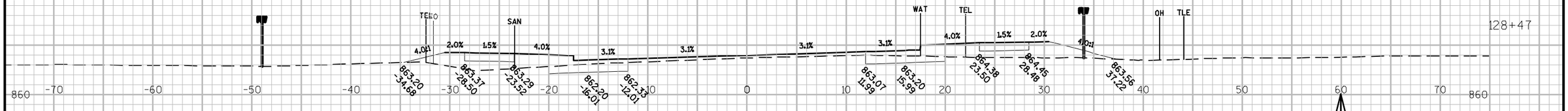
FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090202_XS.DWG PLOT DATE : 1/16/2020 9:33 AM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1:10_XREF
WISDOT/CADDS SHEET 49

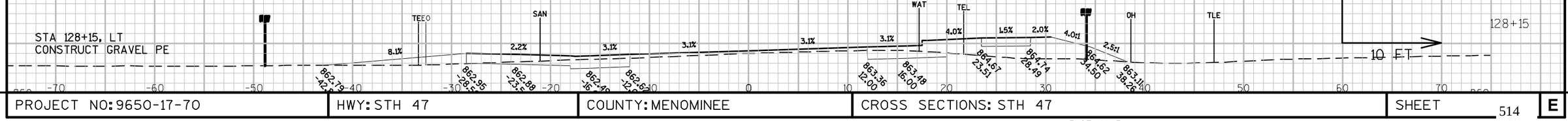
STA 129+34, LT
CONSTRUCT ASPHALT PE
SAWCUT REQUIRED



STA 128+65, RT
CONSTRUCT ASPHALT PE
SAWCUT REQUIRED



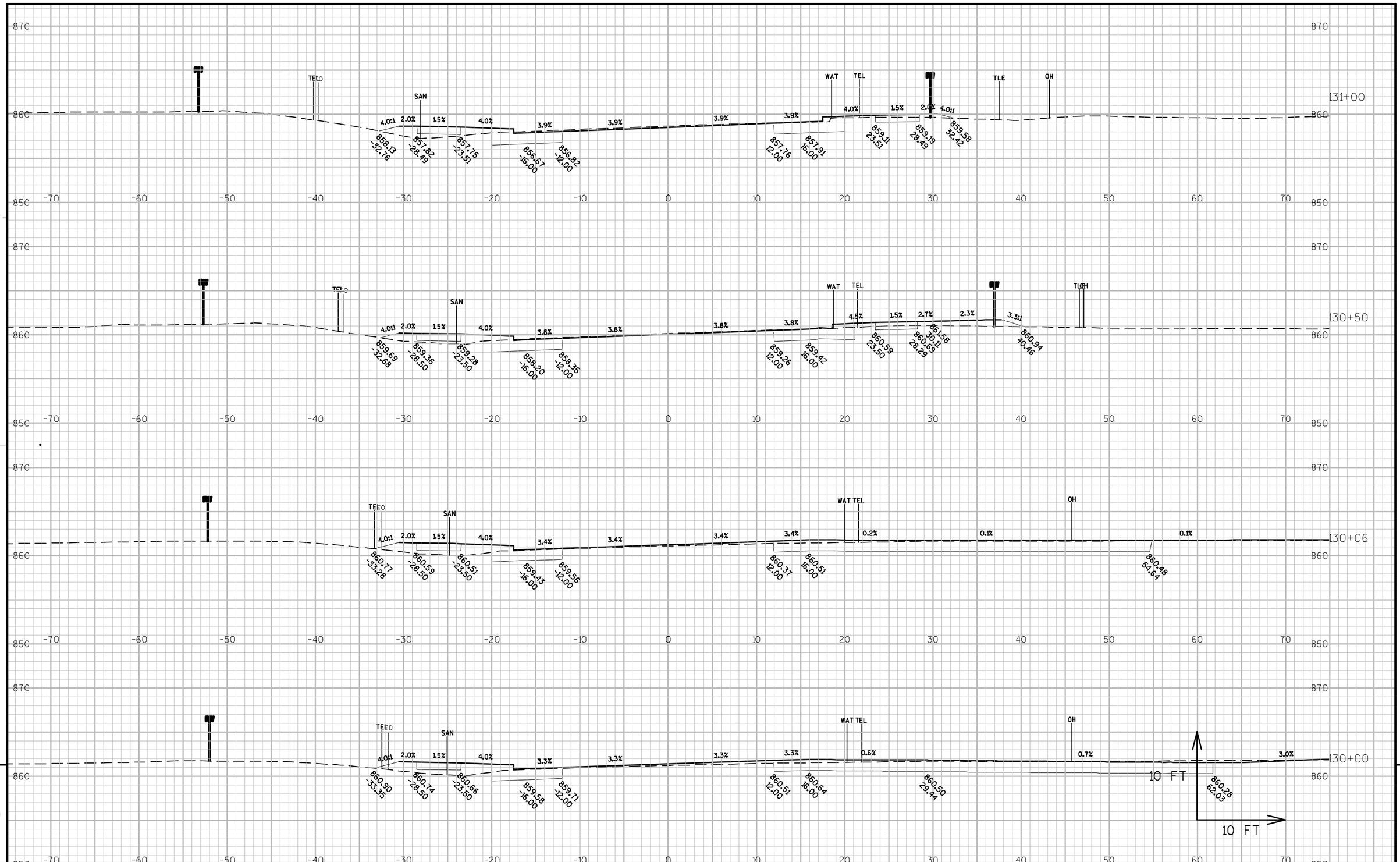




STA 128+15, LT
CONSTRUCT GRAVEL PE

9 9

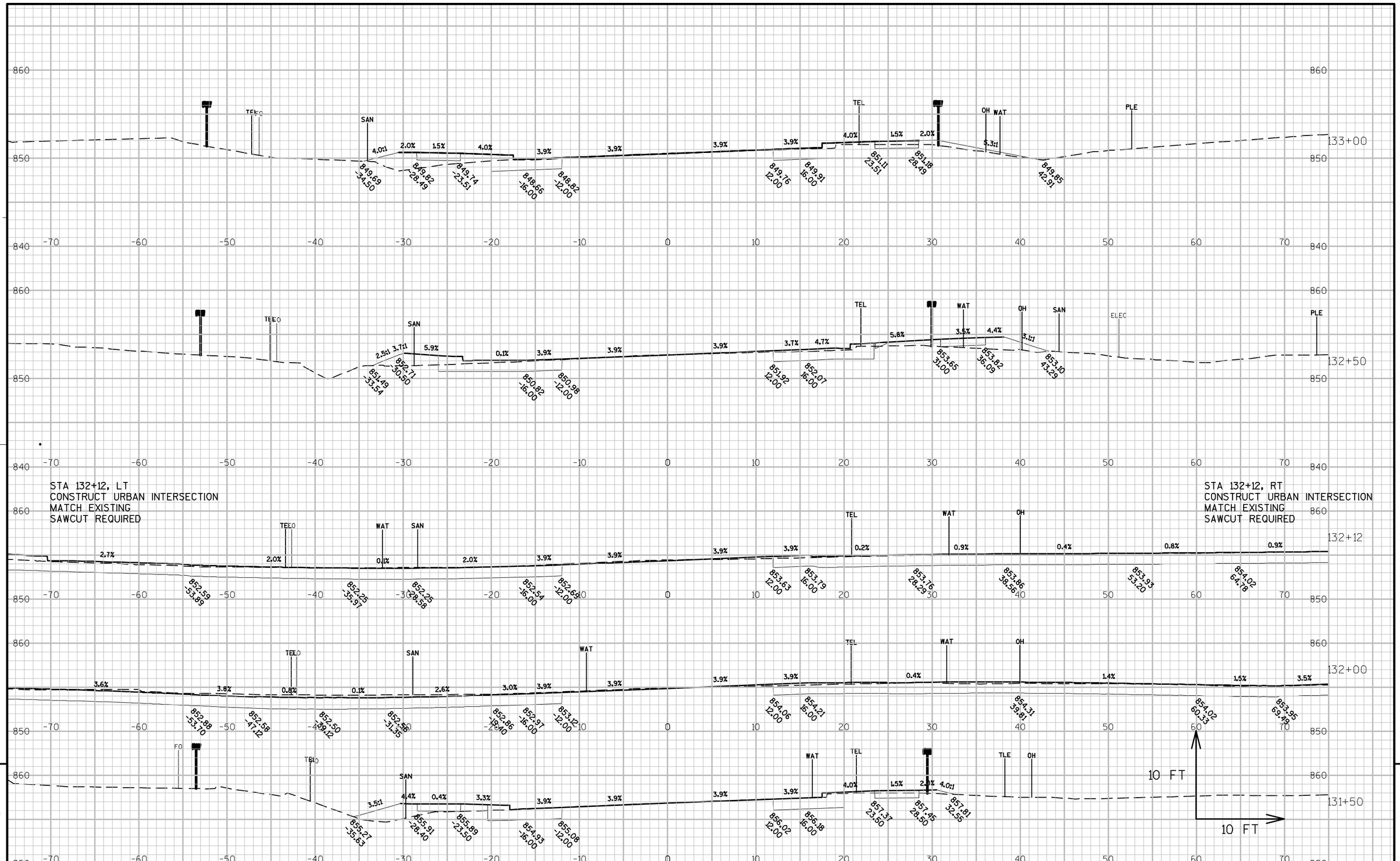
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 514	E



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 515 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090202_XS.DWG PLOT DATE : 1/16/2020 9:34 AM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1:10_XREF

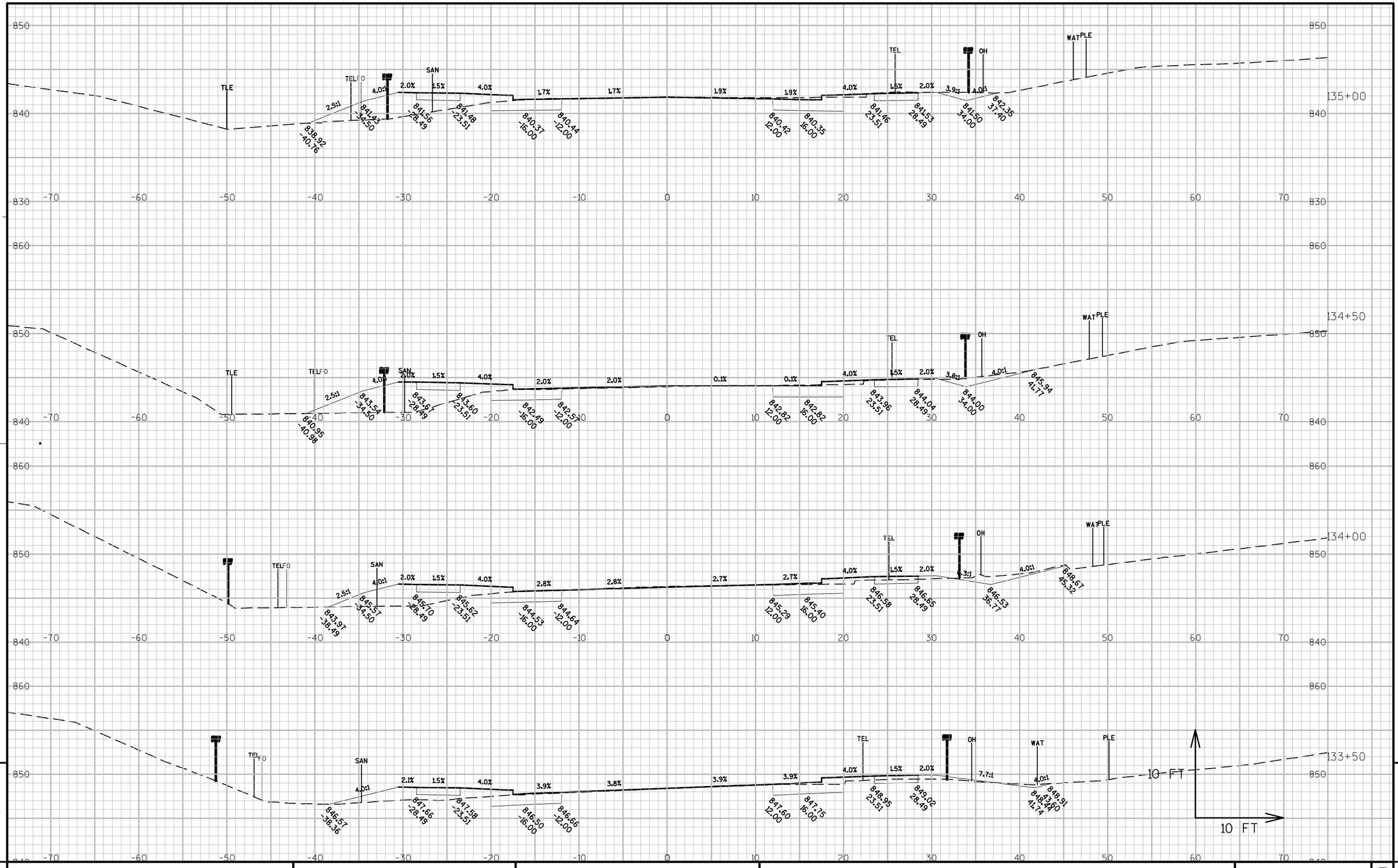
WISDOT/CADDS SHEET 49



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 516 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090202_XS.DWG PLOT DATE : 1/16/2020 9:34 AM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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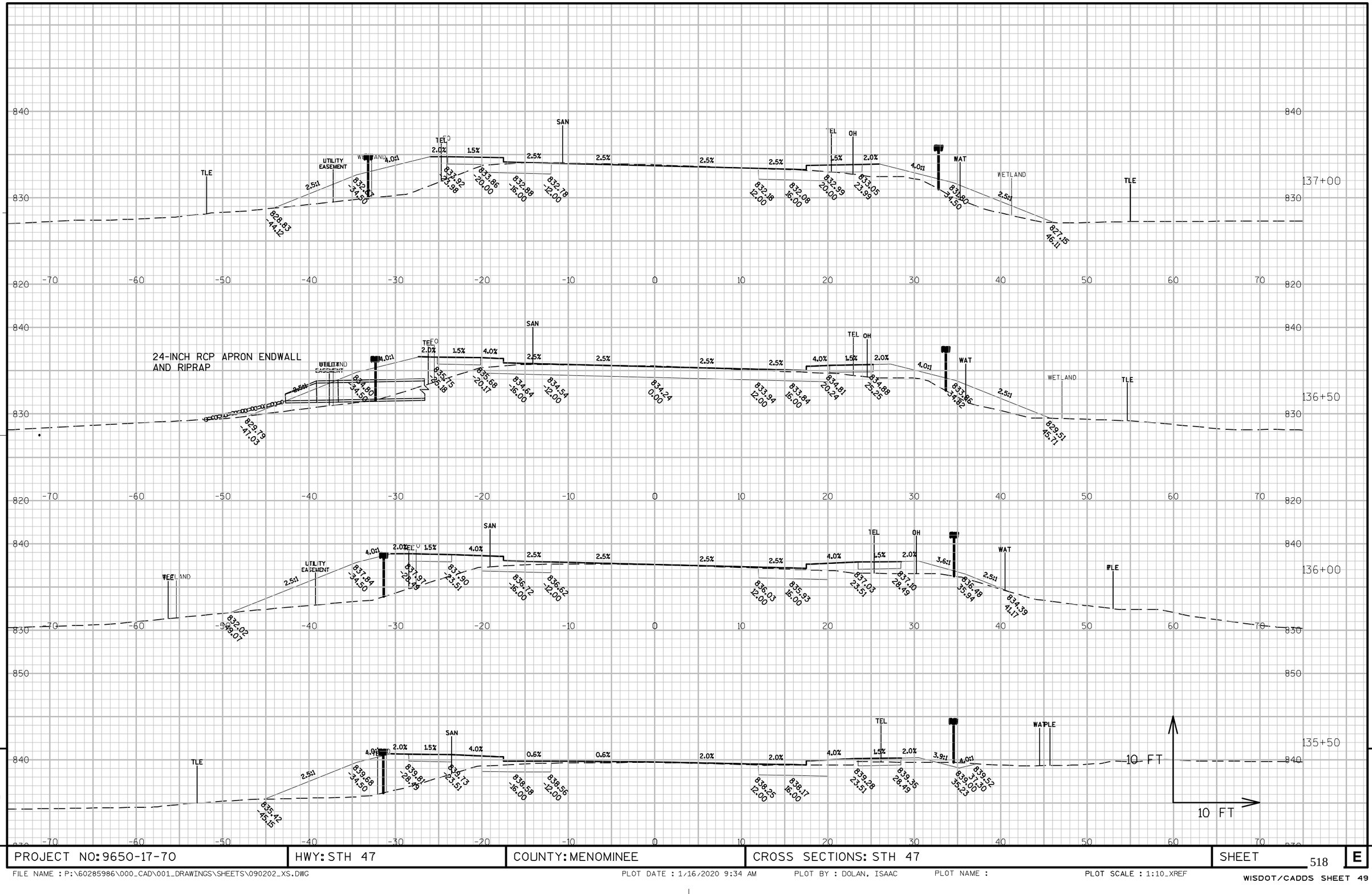
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 517	E



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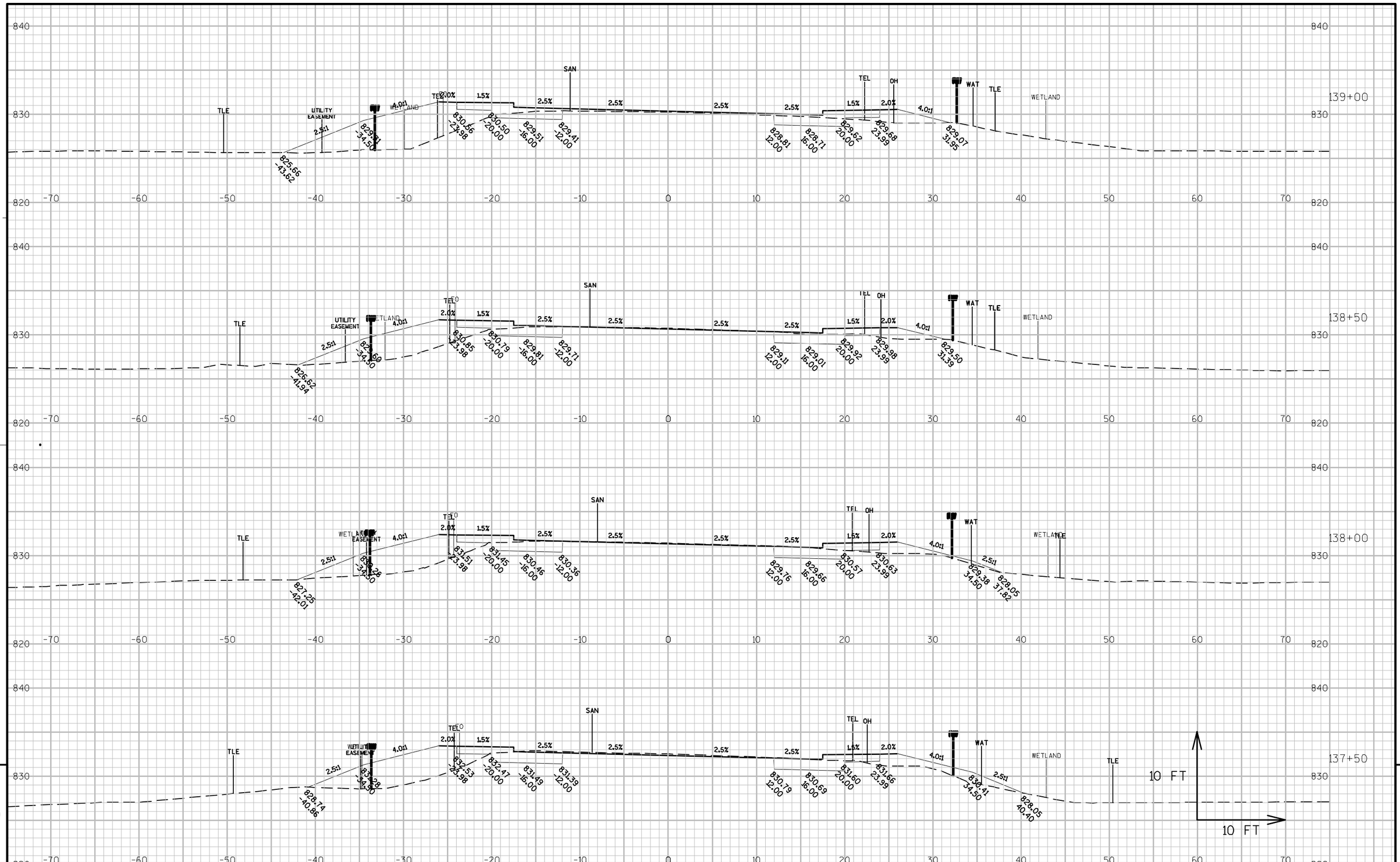
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 518	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090202_XS.DWG PLOT DATE : 1/16/2020 9:34 AM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1:10_XREF

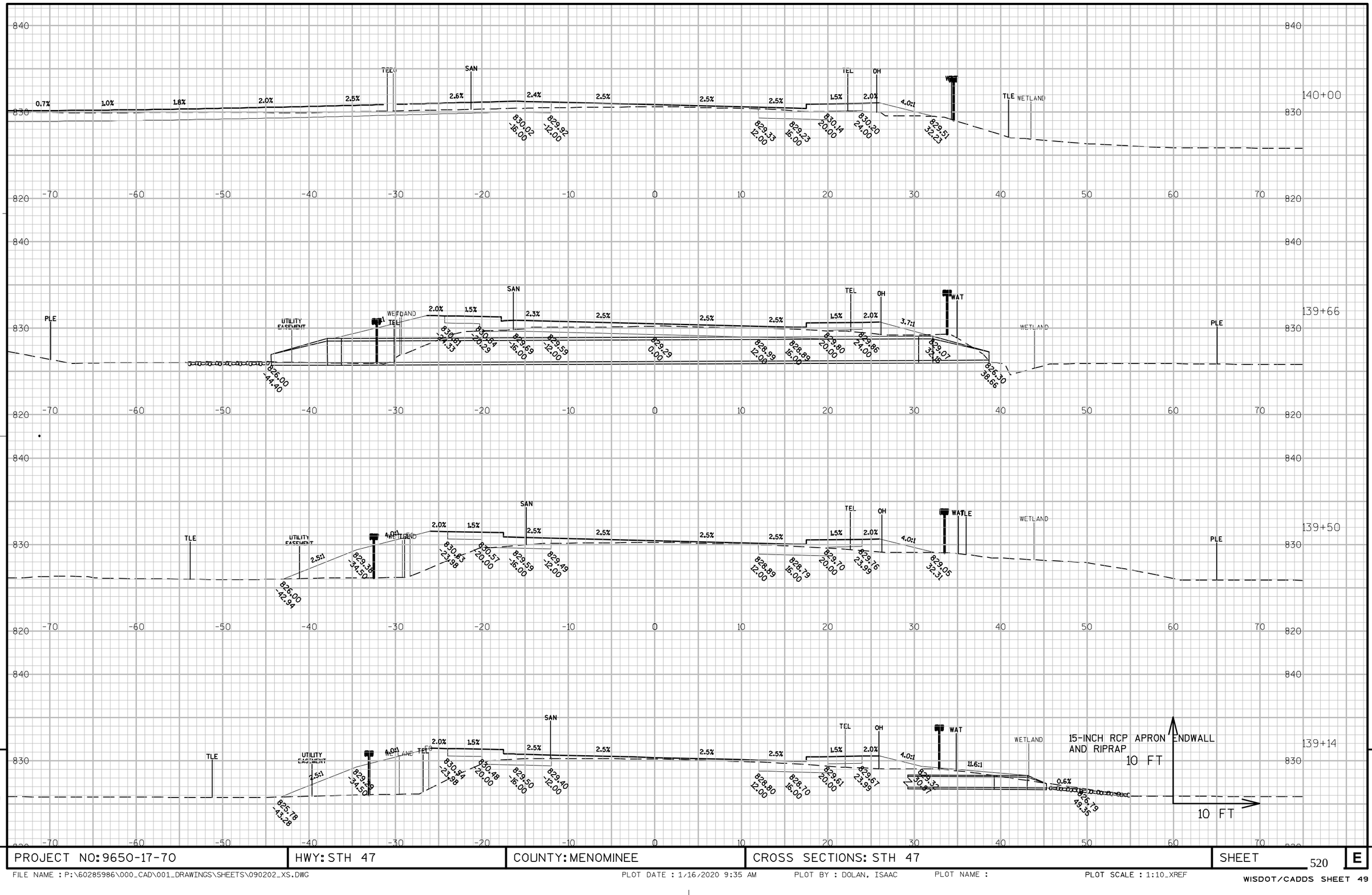
WISDOT/CADDS SHEET 49



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 519	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090202_XS.DWG PLOT DATE : 1/16/2020 9:35 AM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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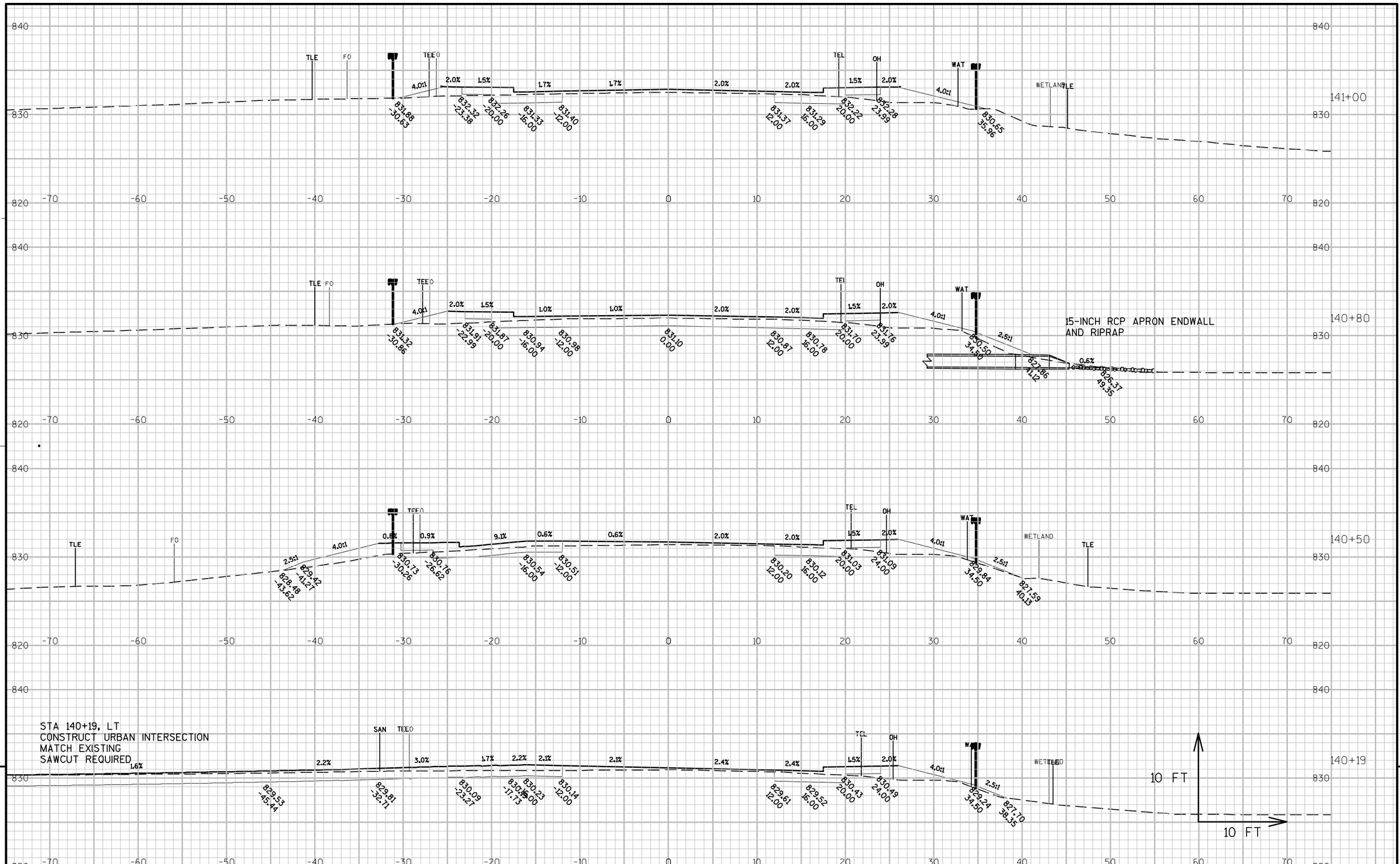
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 520	E



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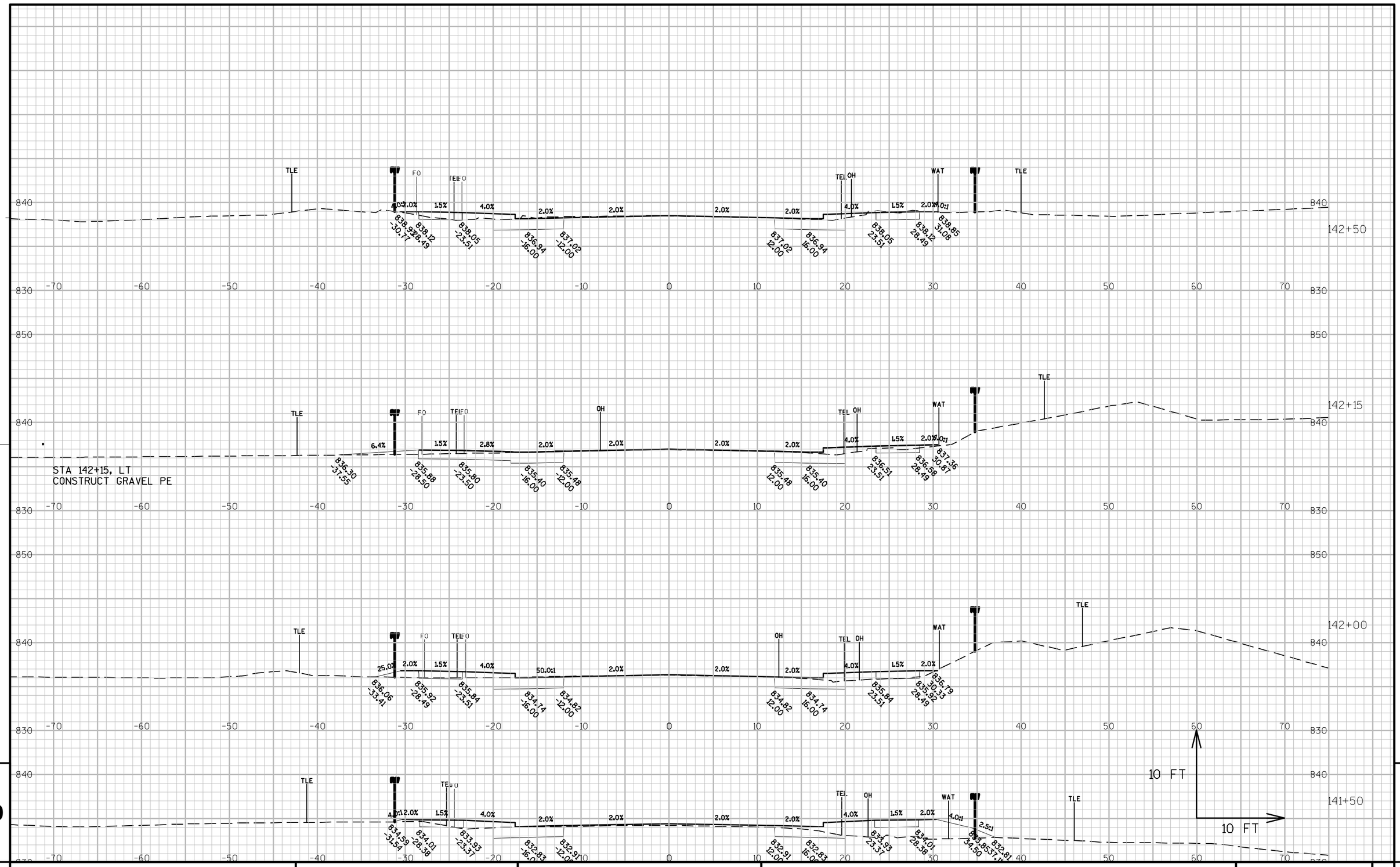
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 521	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090202_XS.DWG PLOT DATE : 1/16/2020 9:35 AM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 522	E

STA 143+59, LT
CONSTRUCT GRAVEL PE

144+00

143+59

143+50

143+00

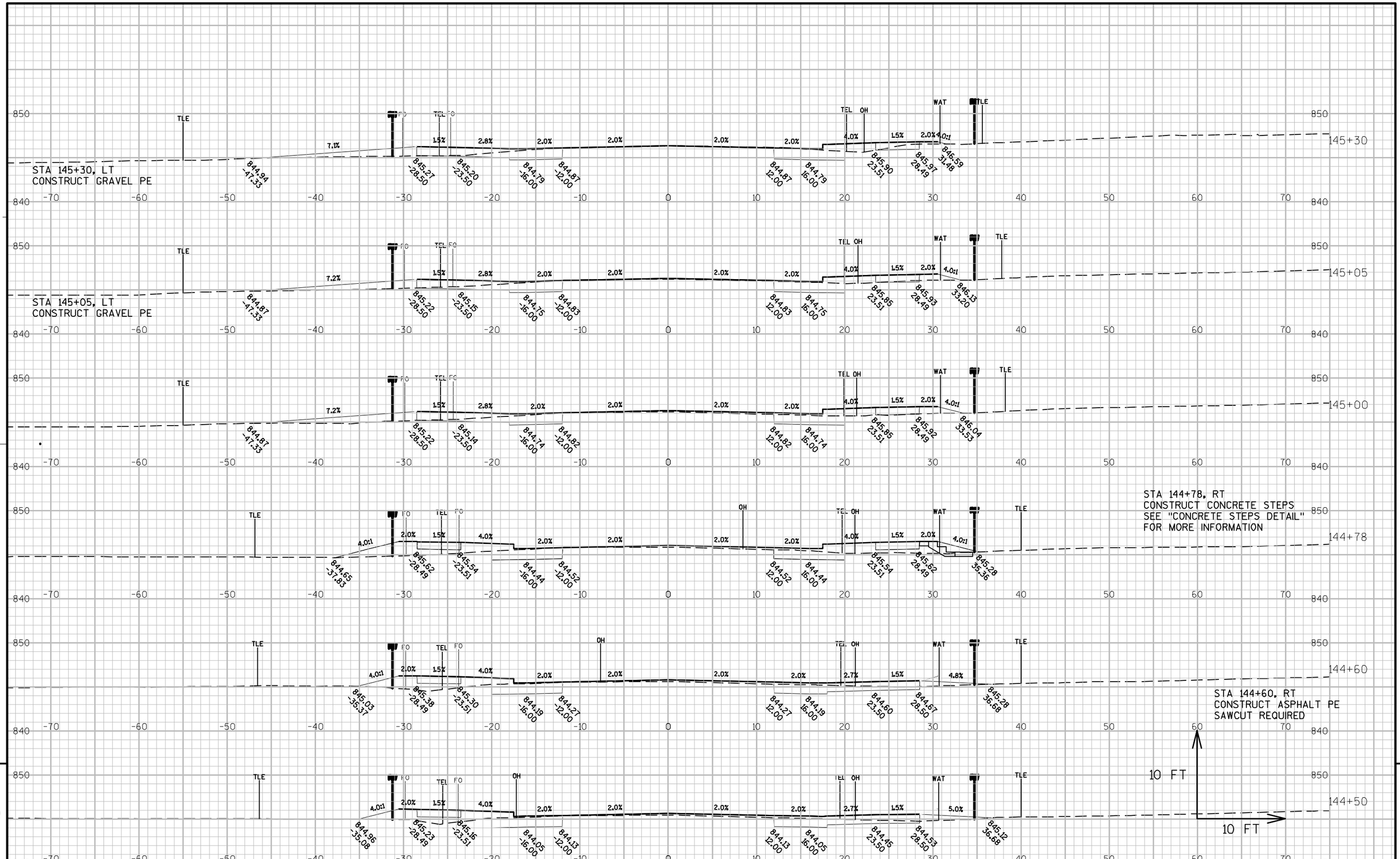
10 FT

10 FT

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 523	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090202_XS.DWG PLOT DATE : 1/16/2020 9:35 AM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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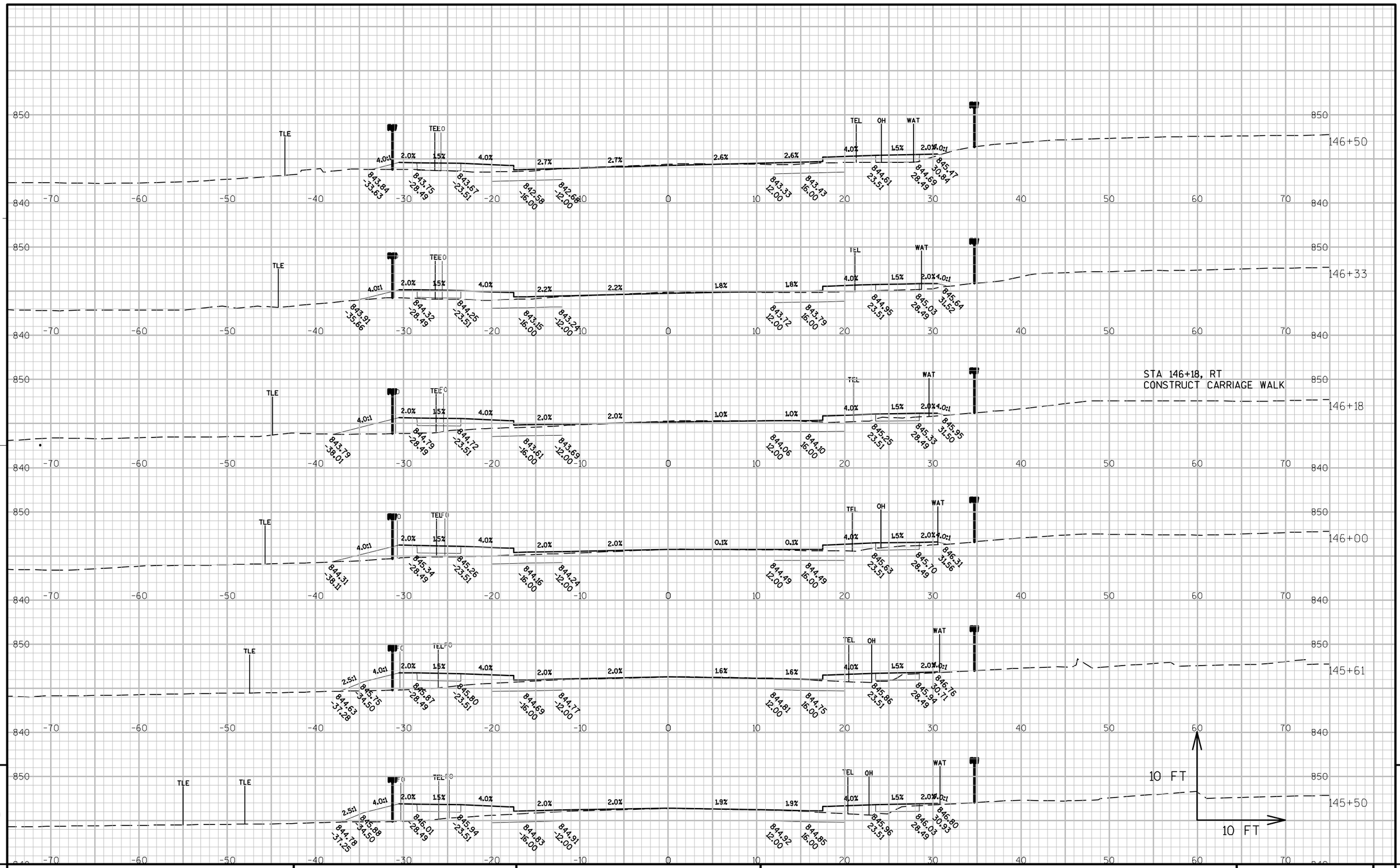
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 524	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090202_XS.DWG PLOT DATE : 1/16/2020 9:36 AM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1:10_XREF



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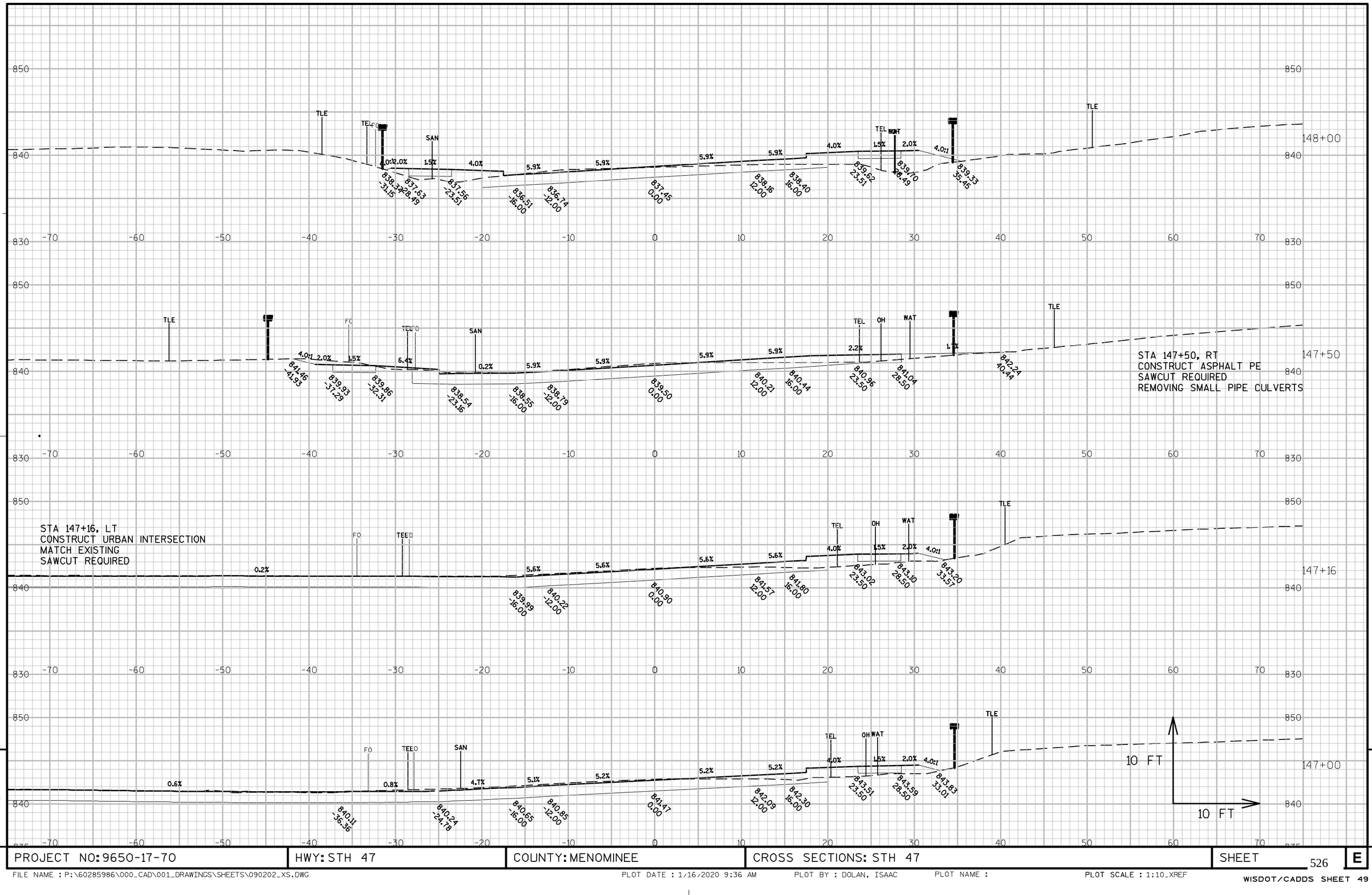
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 525	E



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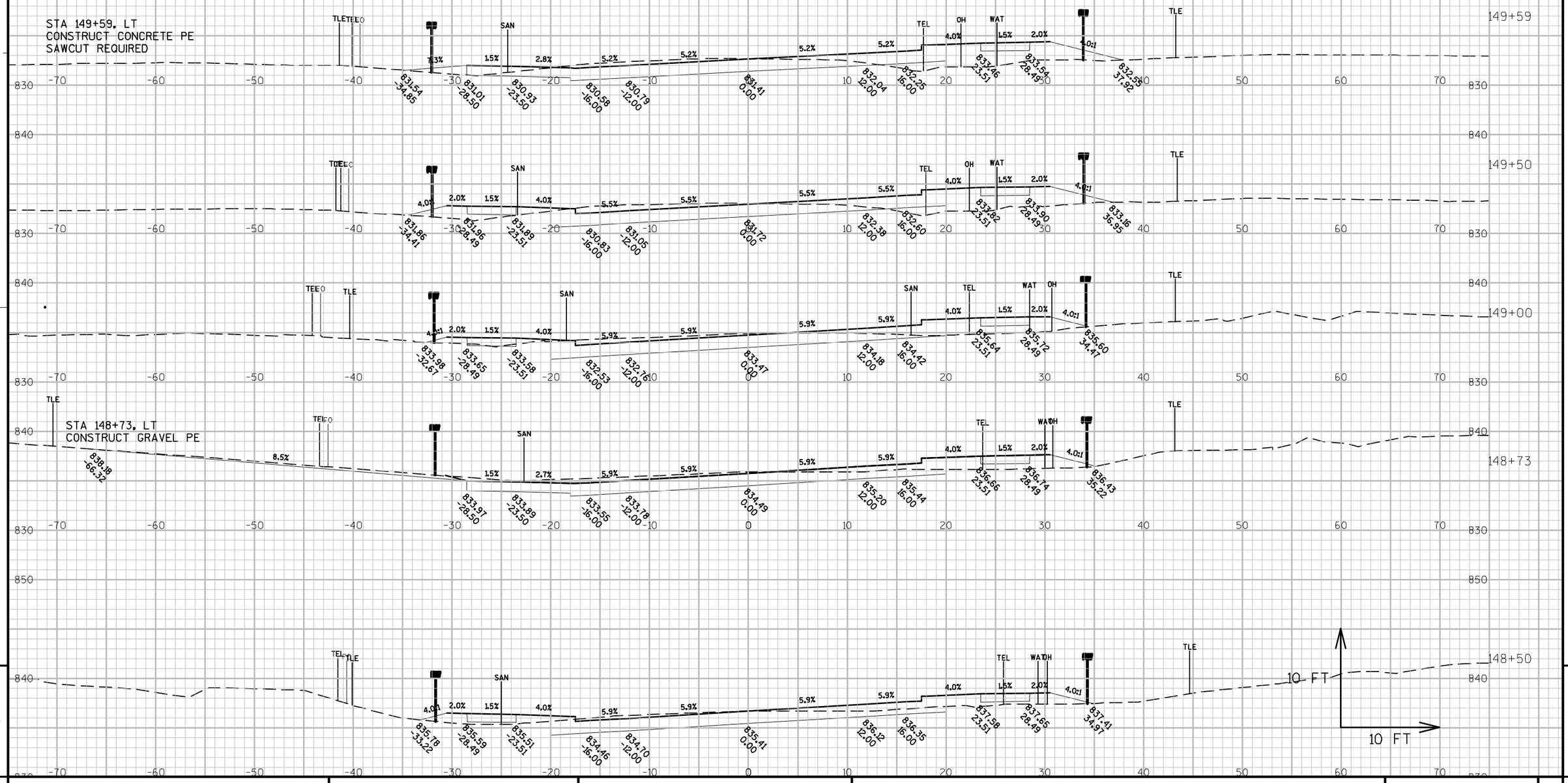
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 526	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090202_XS.DWG PLOT DATE : 1/16/2020 9:36 AM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1:10_XREF
WISDOT/CADDS SHEET 49

STA 149+59, LT
CONSTRUCT CONCRETE PE
SAWCUT REQUIRED



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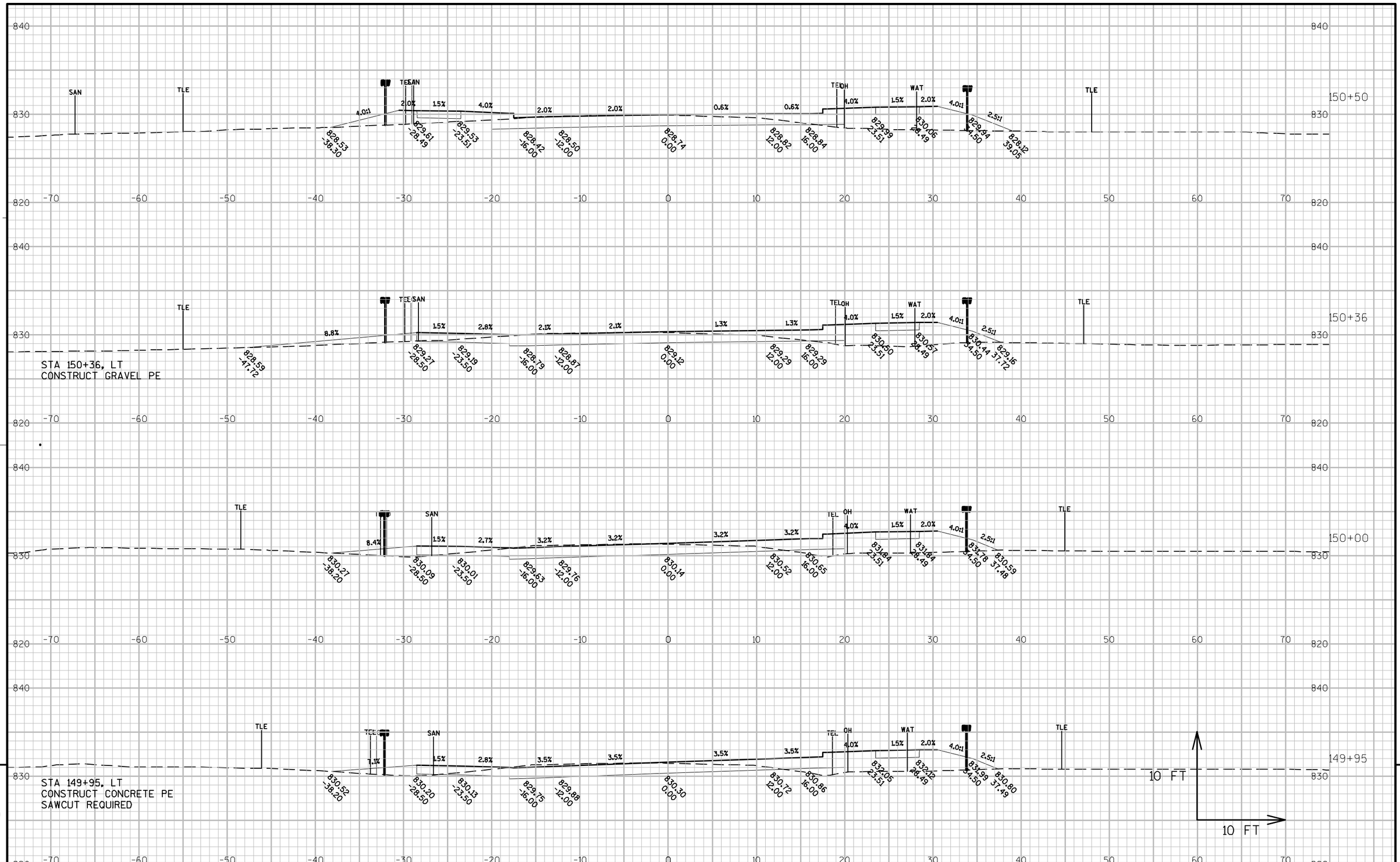
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 527	E



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PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 528	E

STA 152+93, LT
CONSTRUCT ASPHALT PE
SAWCUT REQUIRED

PETROLEUM CONTAMINATED SOIL & GROUNDWATER MANAGEMENT AREA

STA 152+93, RT
CONSTRUCT GRAVEL PE

STA 152+48, LT
CONSTRUCT ASPHALT PE
SAWCUT REQUIRED

STA 152+00, RT
CONSTRUCT GRAVEL PE

STA 151+95, RT
CONSTRUCT ASPHALT PE
SAWCUT REQUIRED

DRAINAGE DITCH - STA 151+50, LT
24-INCH RCP APRON ENDWALL AND RIPRAP

STA 151+00, RT
CONSTRUCT GRAVEL PE

10 FT
10 FT

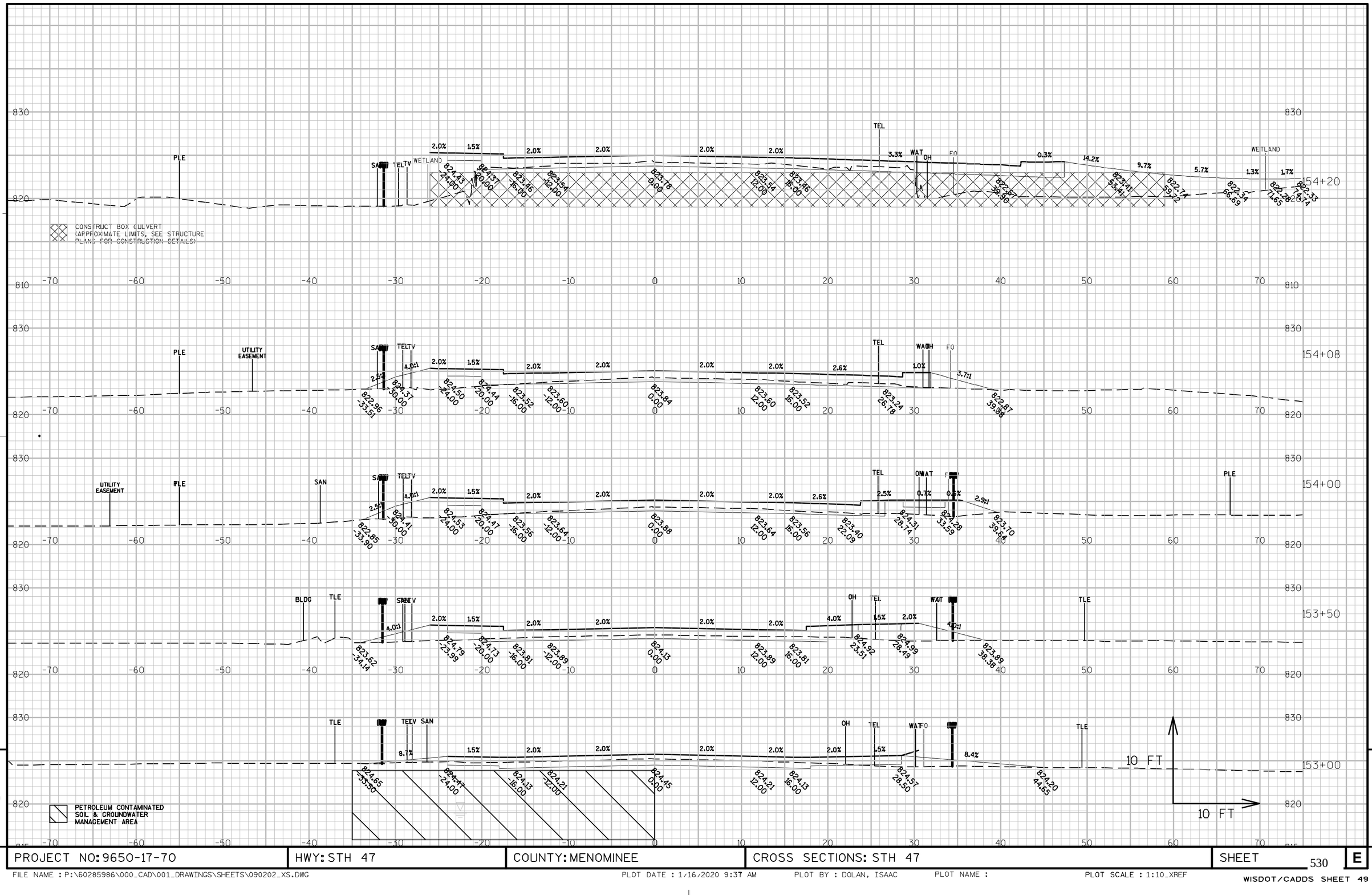
9

9

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 529	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090202_XS.DWG PLOT DATE : 1/16/2020 9:37 AM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1:10_XREF

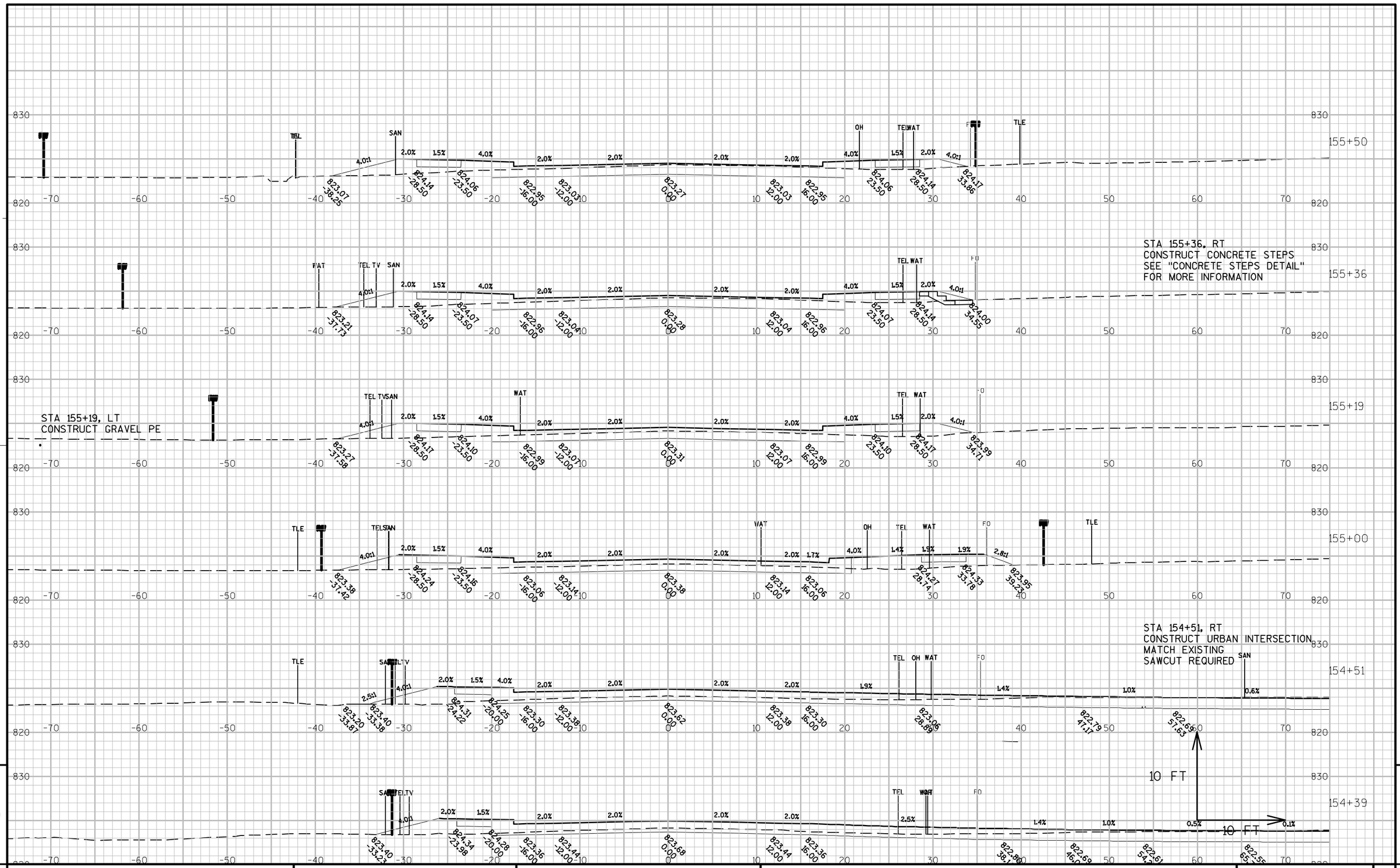
WISDOT/CADDS SHEET 49



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 530 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090202_XS.DWG PLOT DATE : 1/16/2020 9:37 AM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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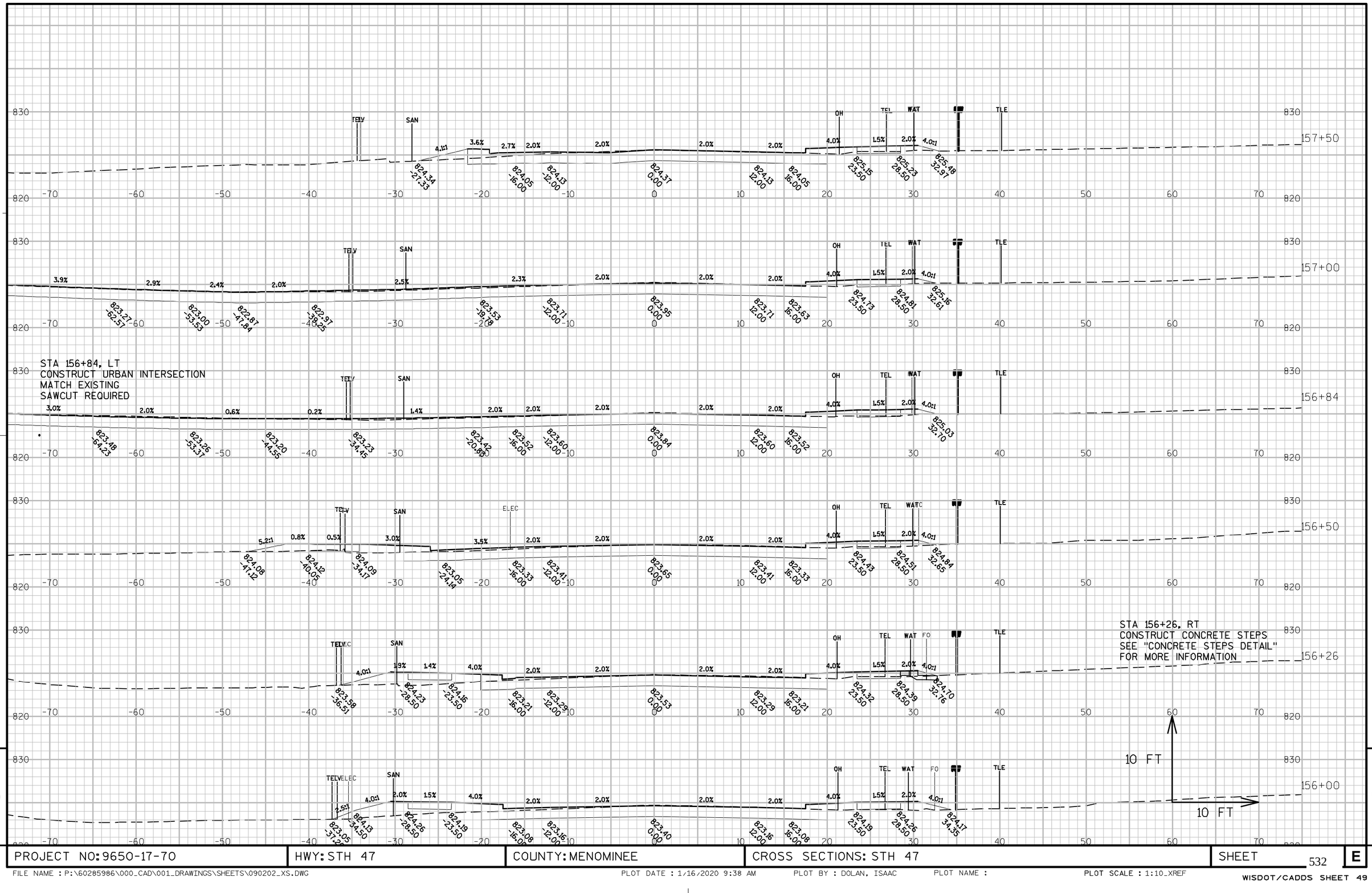
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 531	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090202_XS.DWG PLOT DATE : 1/16/2020 9:37 AM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1:10_XREF



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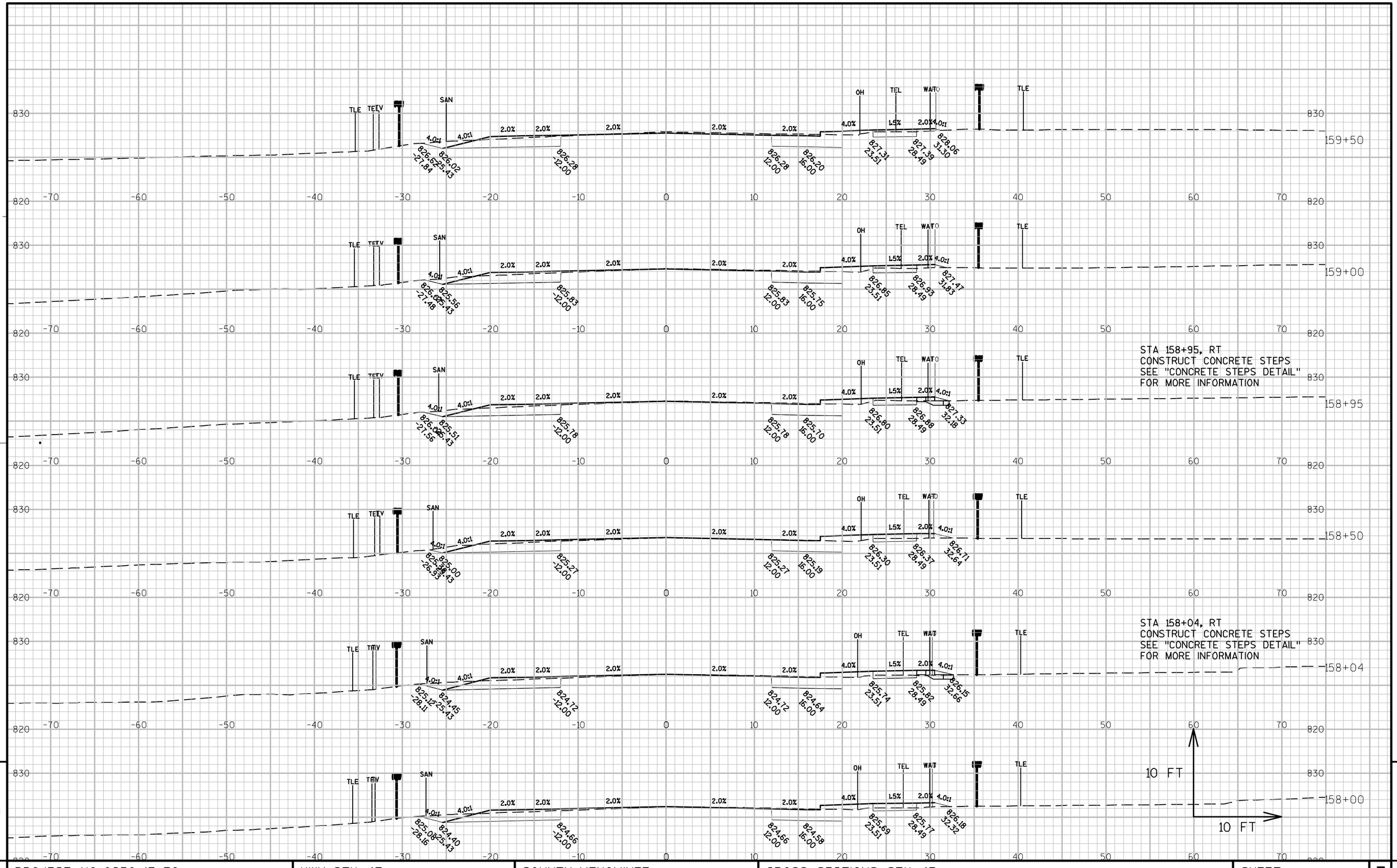
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 532	E



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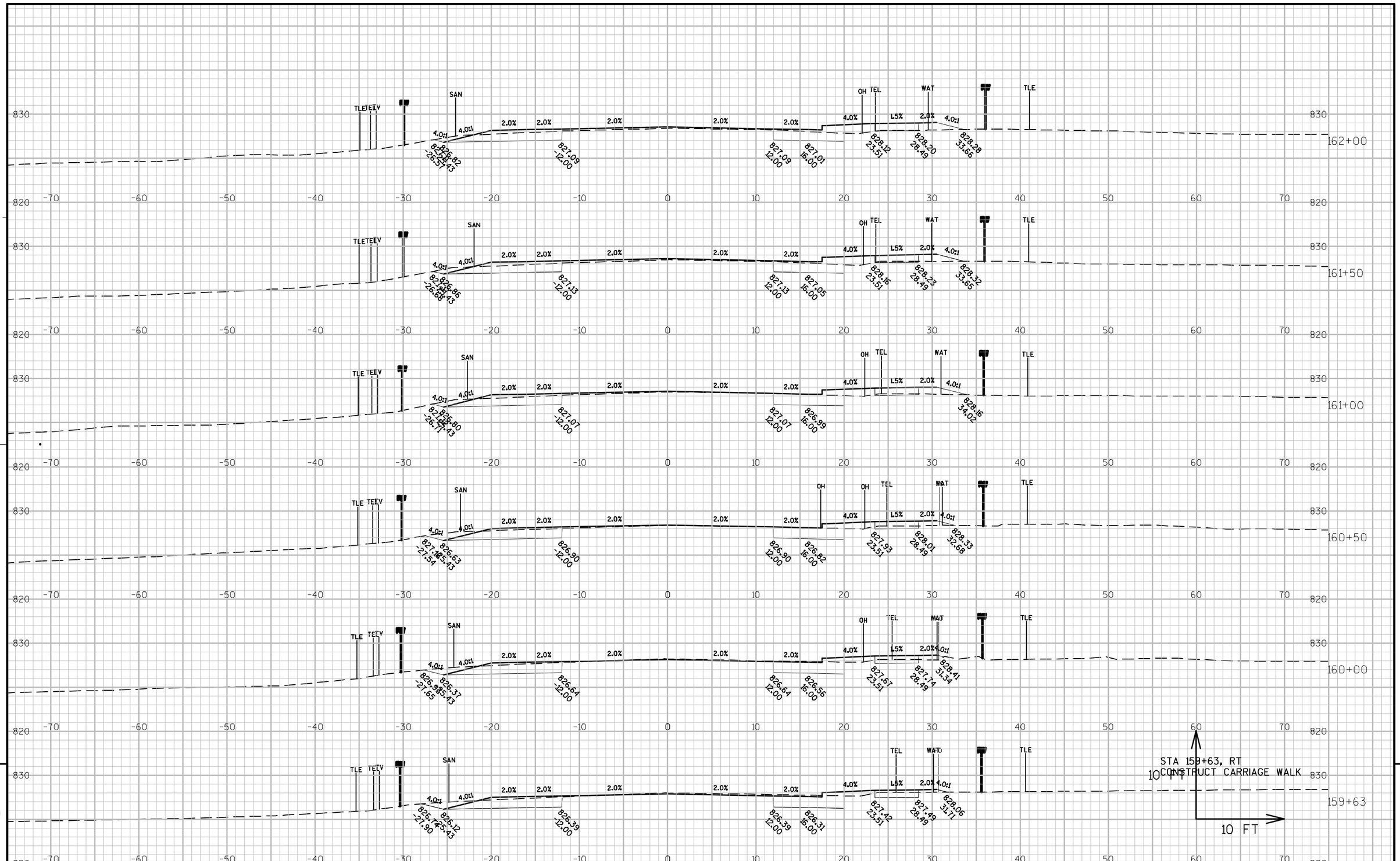
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 533	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090202_XS.DWG PLOT DATE : 1/16/2020 9:38 AM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1:10_XREF

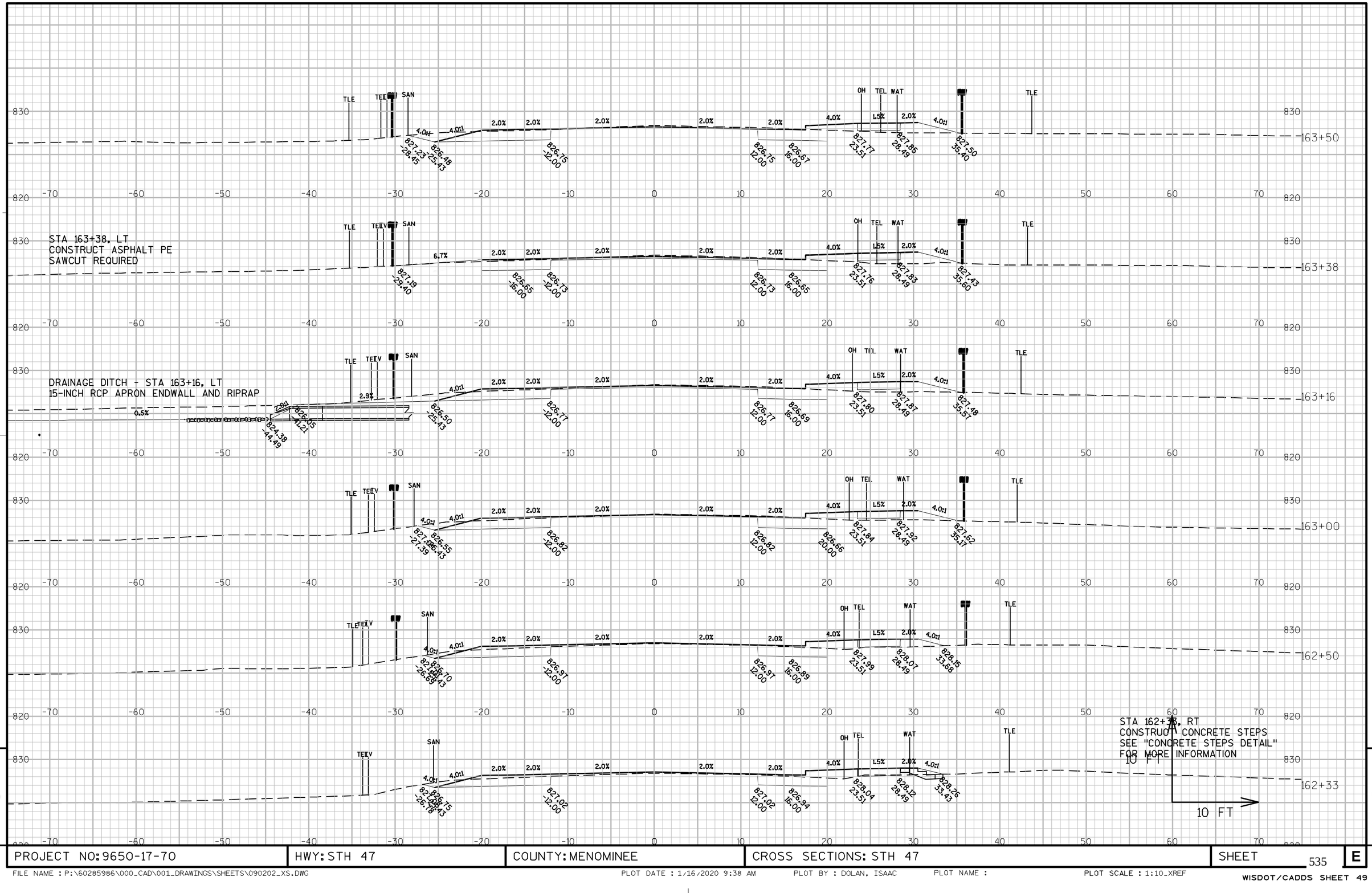
WISDOT/CADDS SHEET 49



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 534 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090202_XS.DWG PLOT DATE : 1/16/2020 9:38 AM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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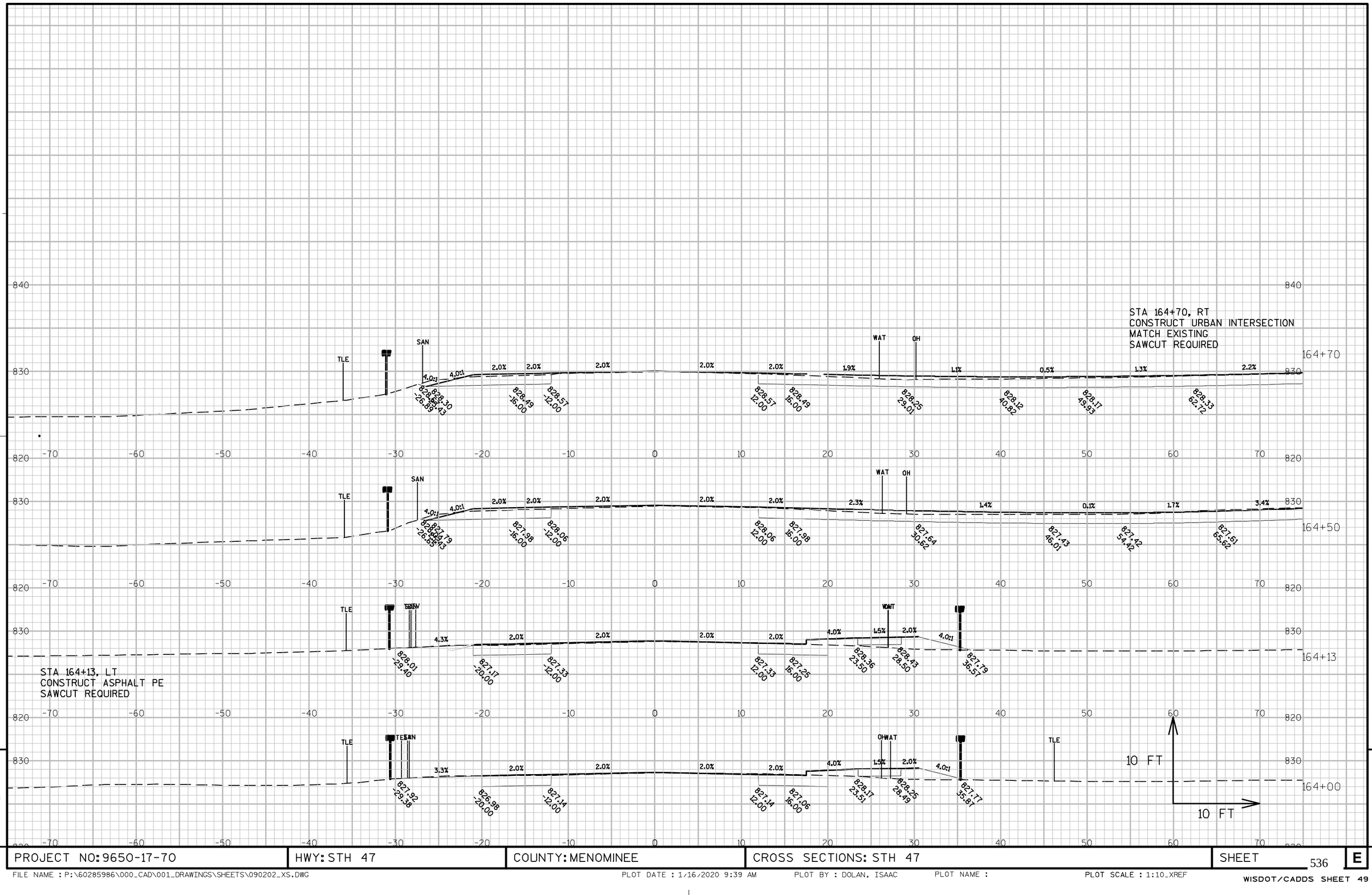
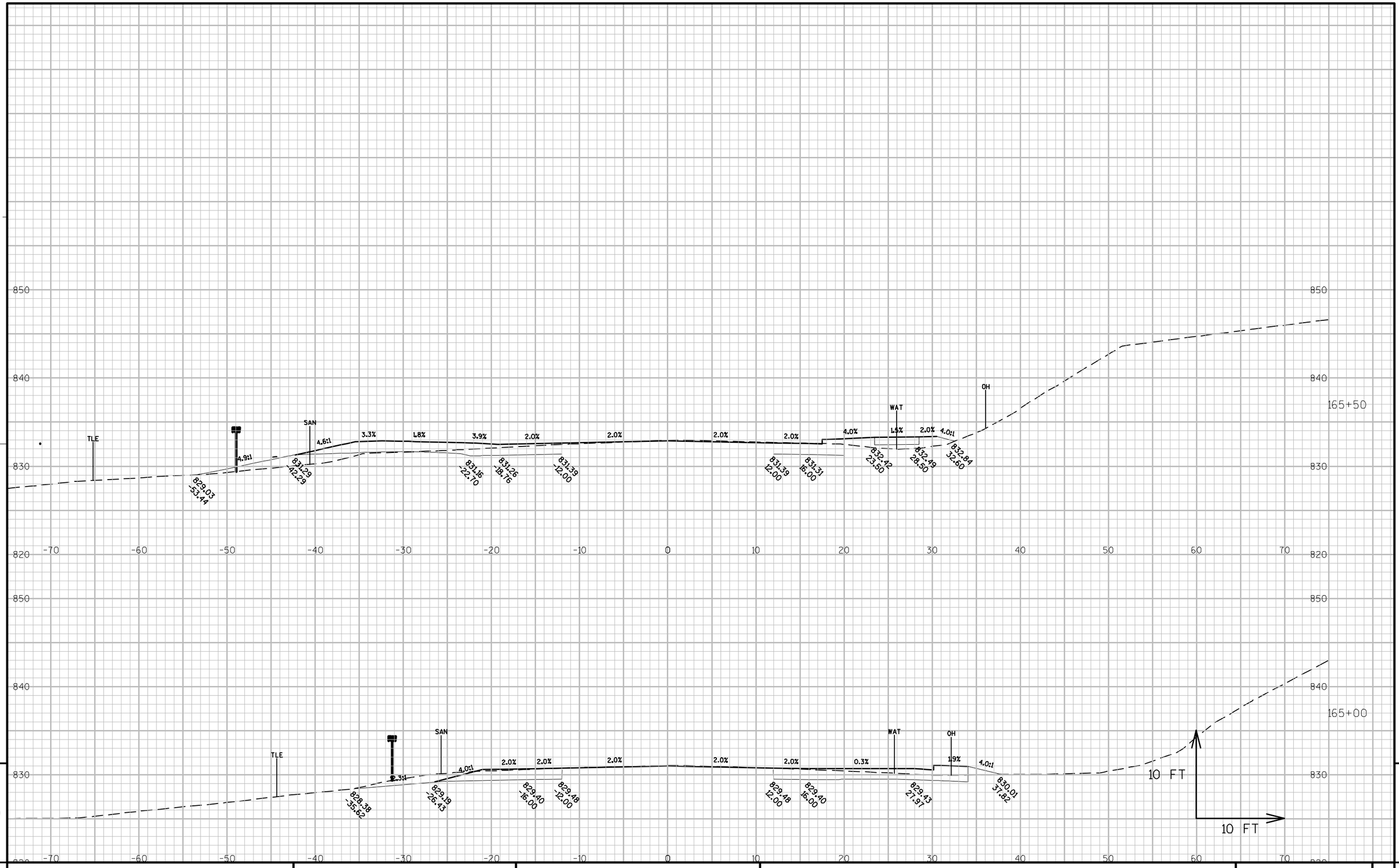
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 535	E



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 536	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090202_XS.DWG PLOT DATE : 1/16/2020 9:39 AM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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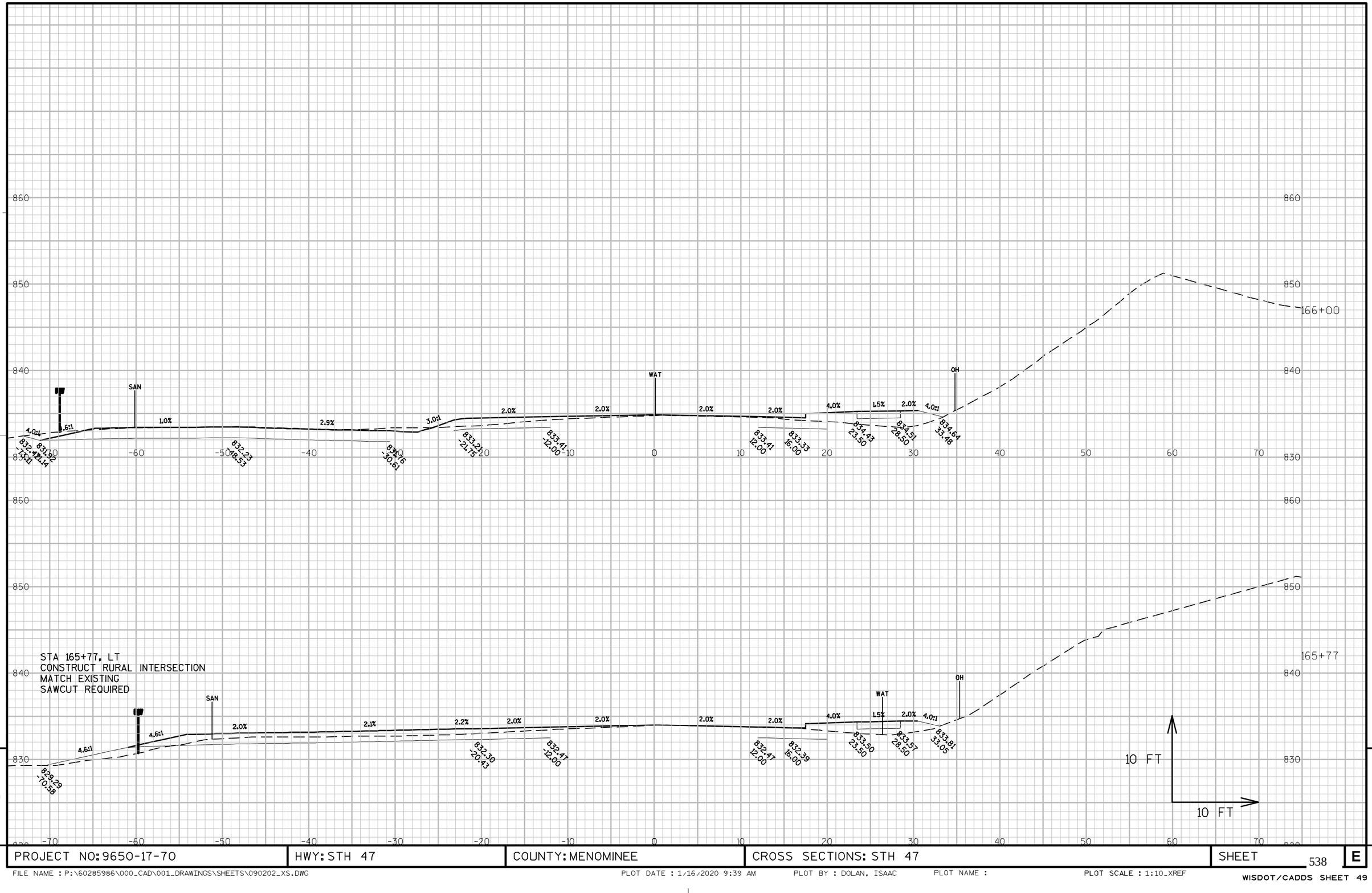
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 537	E



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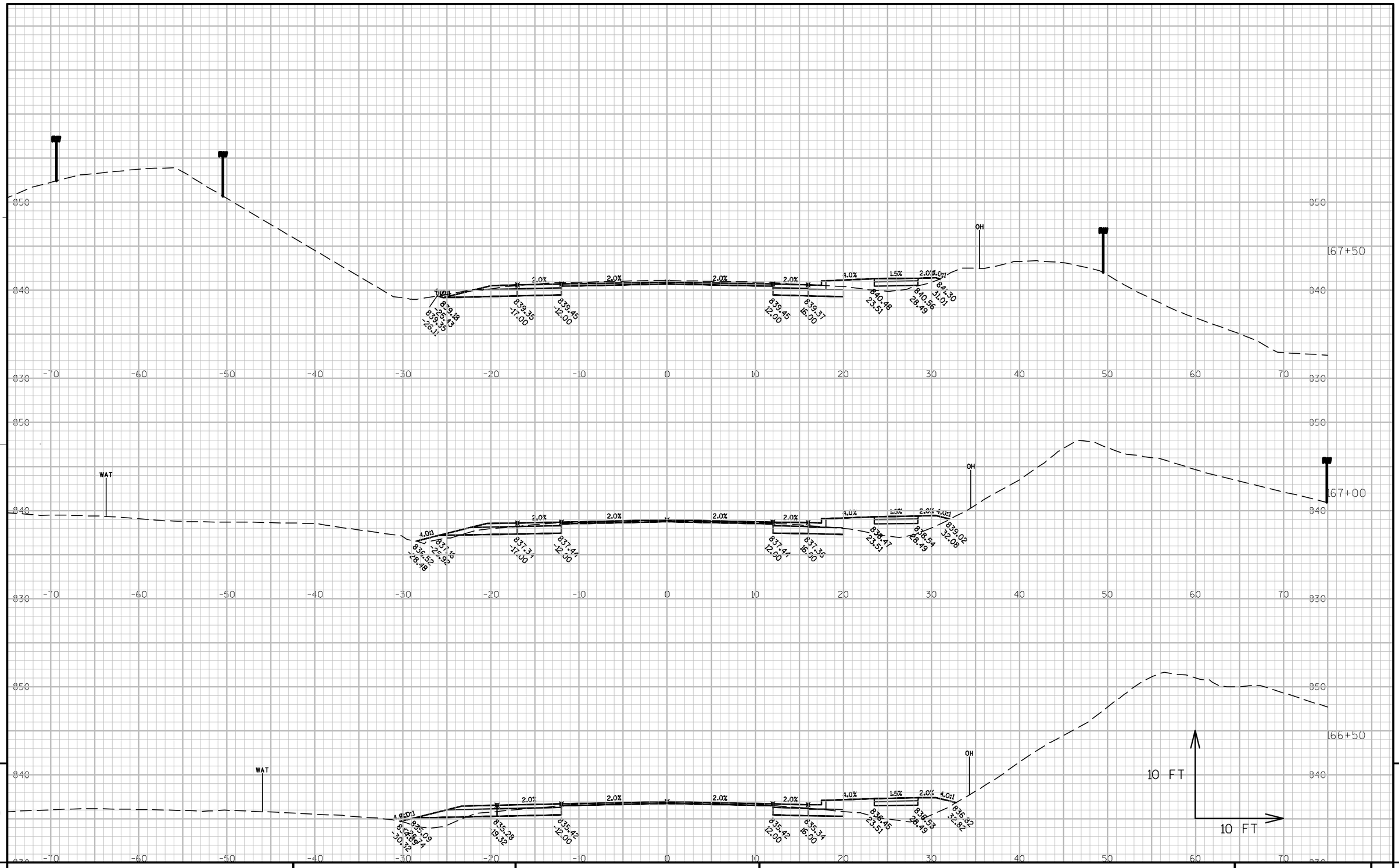
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 538	E



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PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 539	E

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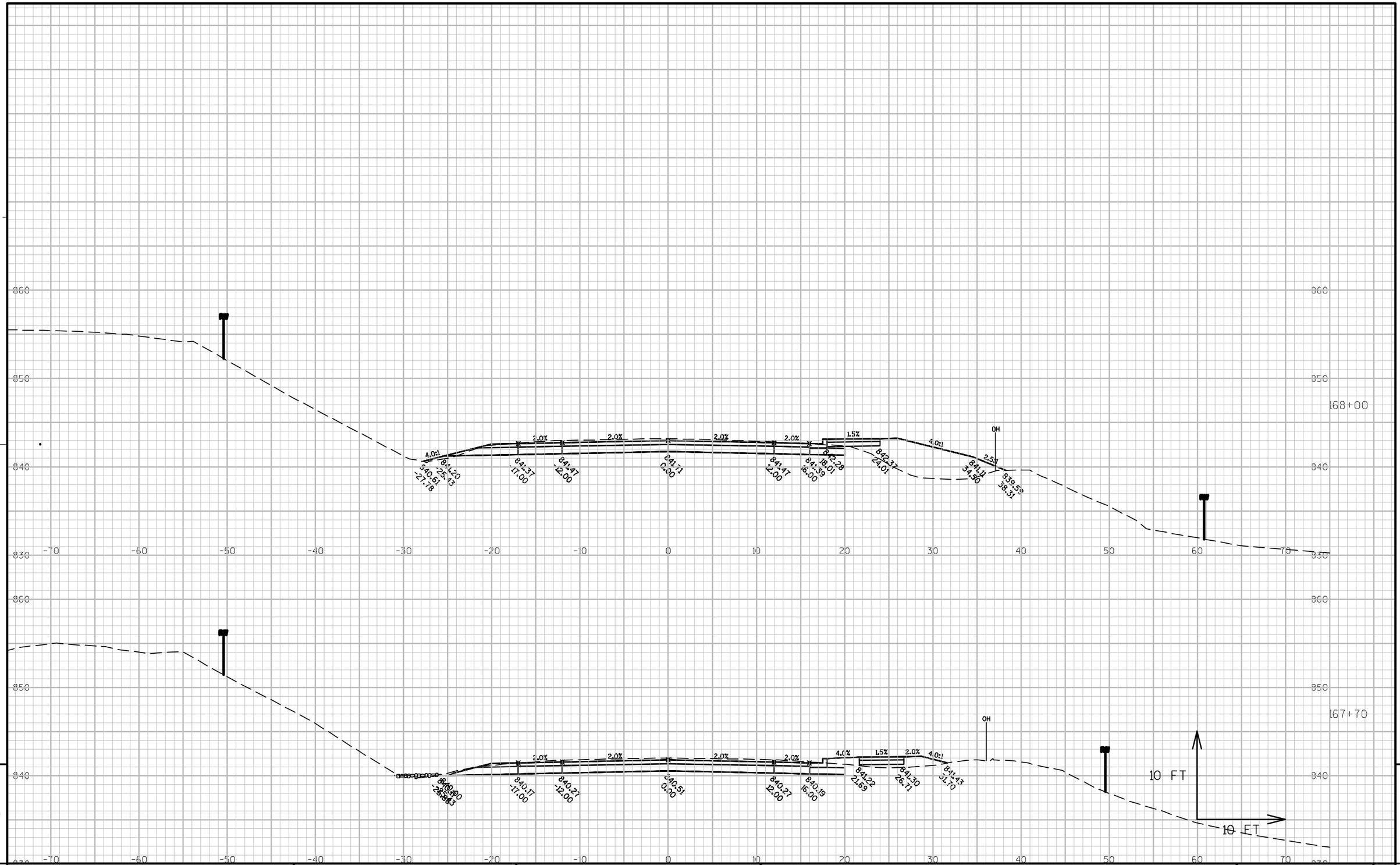
FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090203_XS.DWG PLOT DATE : 1/31/2020 12:24 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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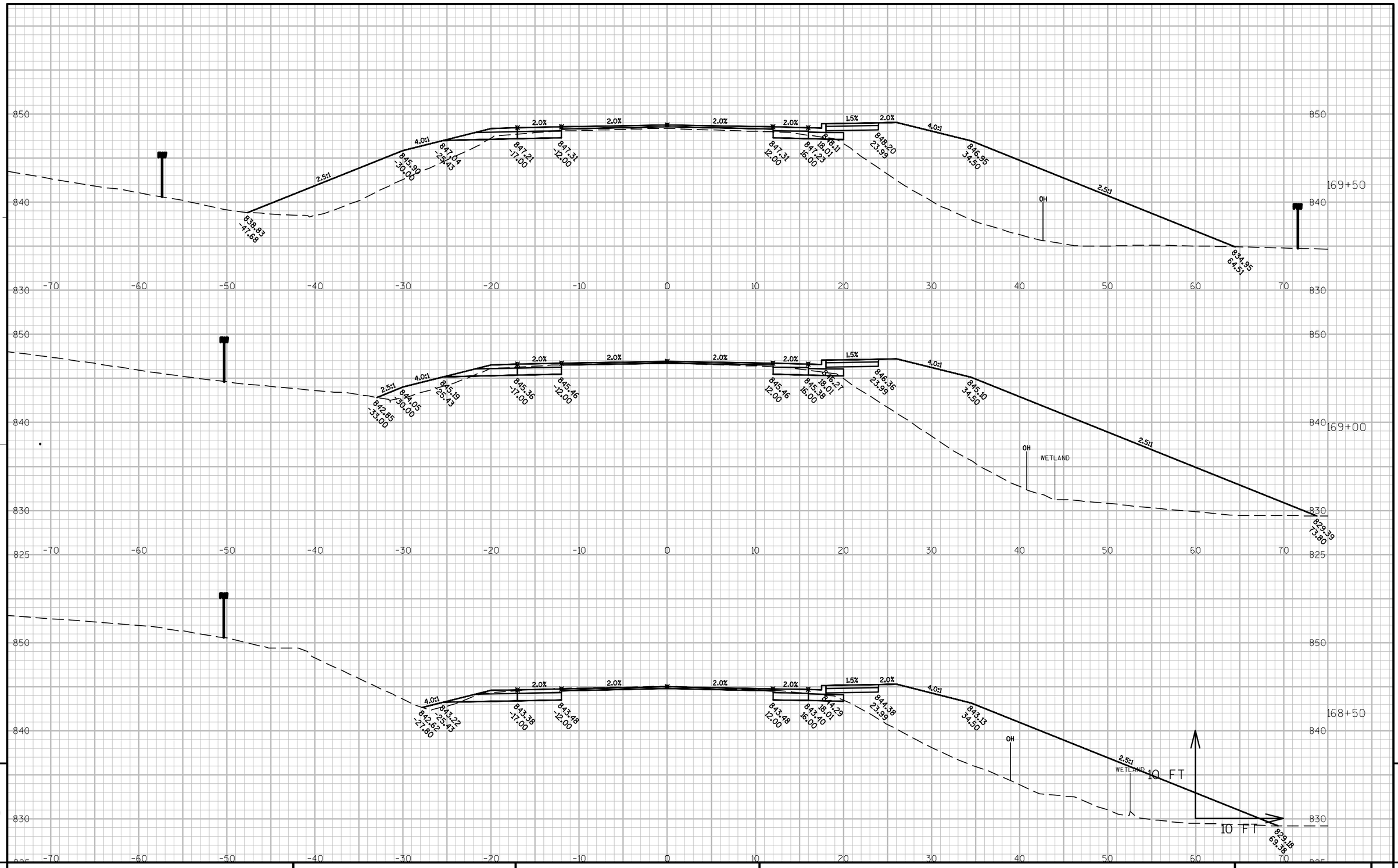
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 540	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090203_XS.DWG PLOT DATE : 1/31/2020 12:25 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1:10_XREF

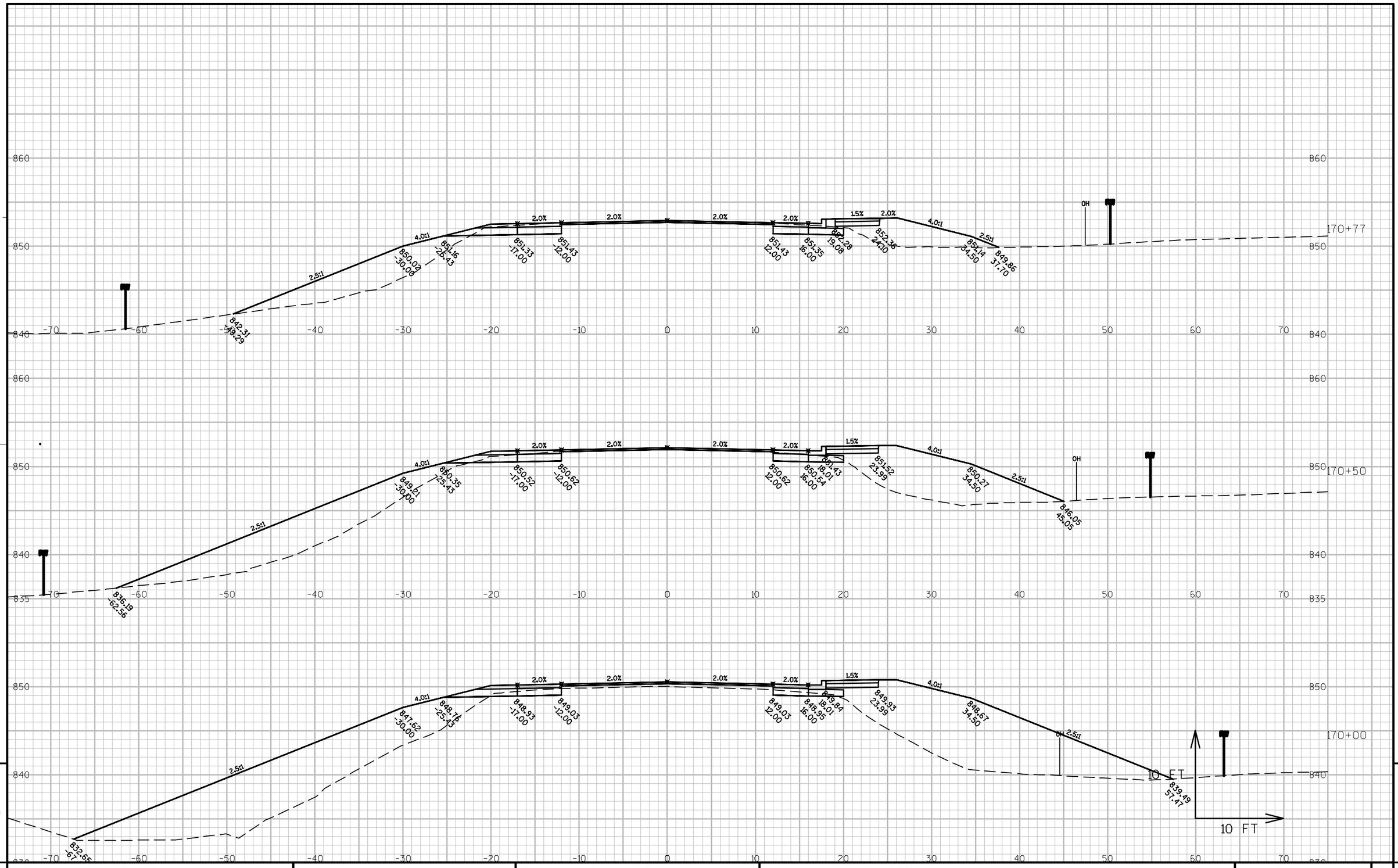
WISDOT/CADDS SHEET 49



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 541	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090203_XS.DWG PLOT DATE : 1/31/2020 12:25 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1:10_XREF

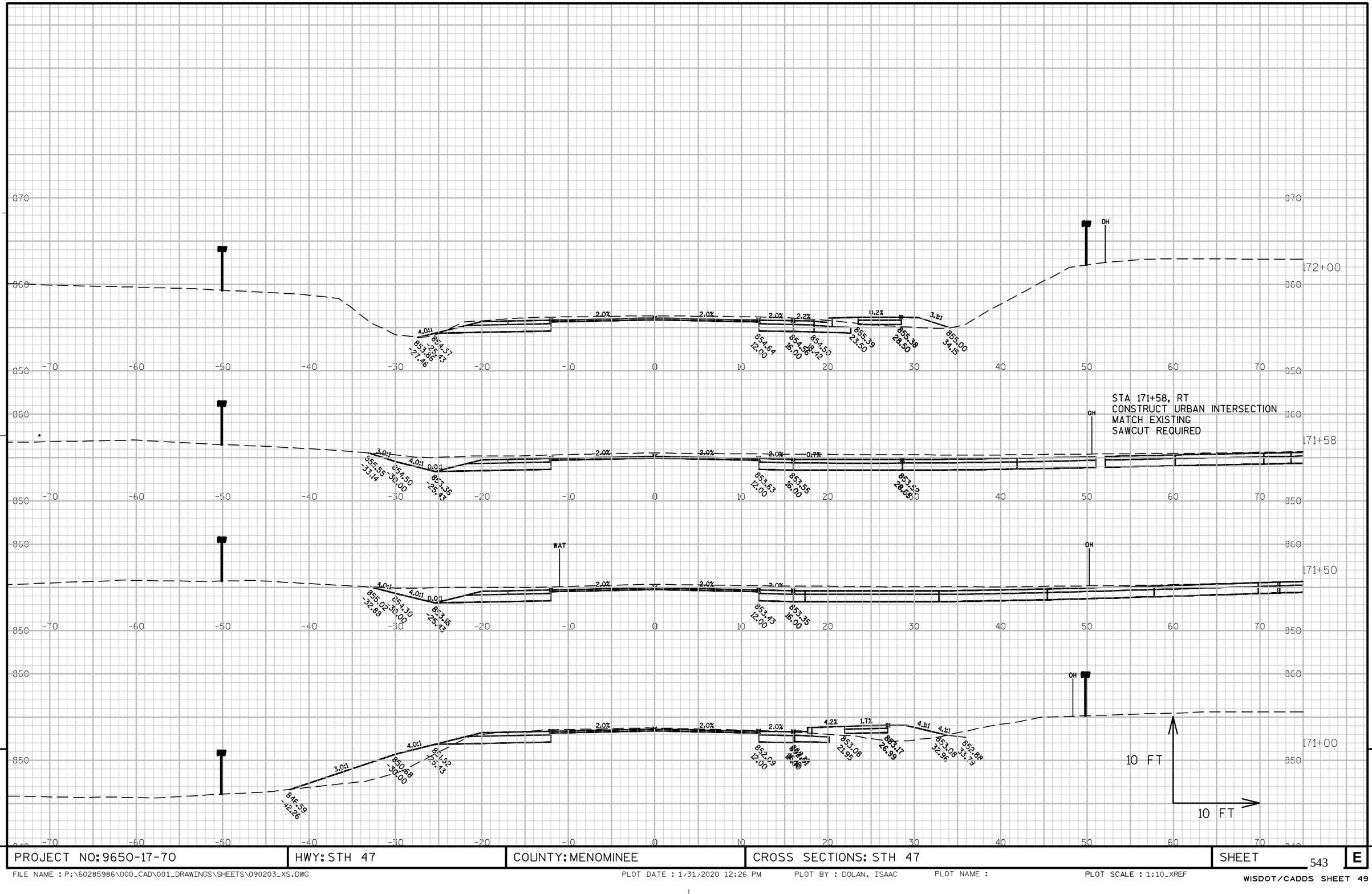
WISDOT/CADDS SHEET 49



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 542	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090203_XS.DWG PLOT DATE : 1/31/2020 12:26 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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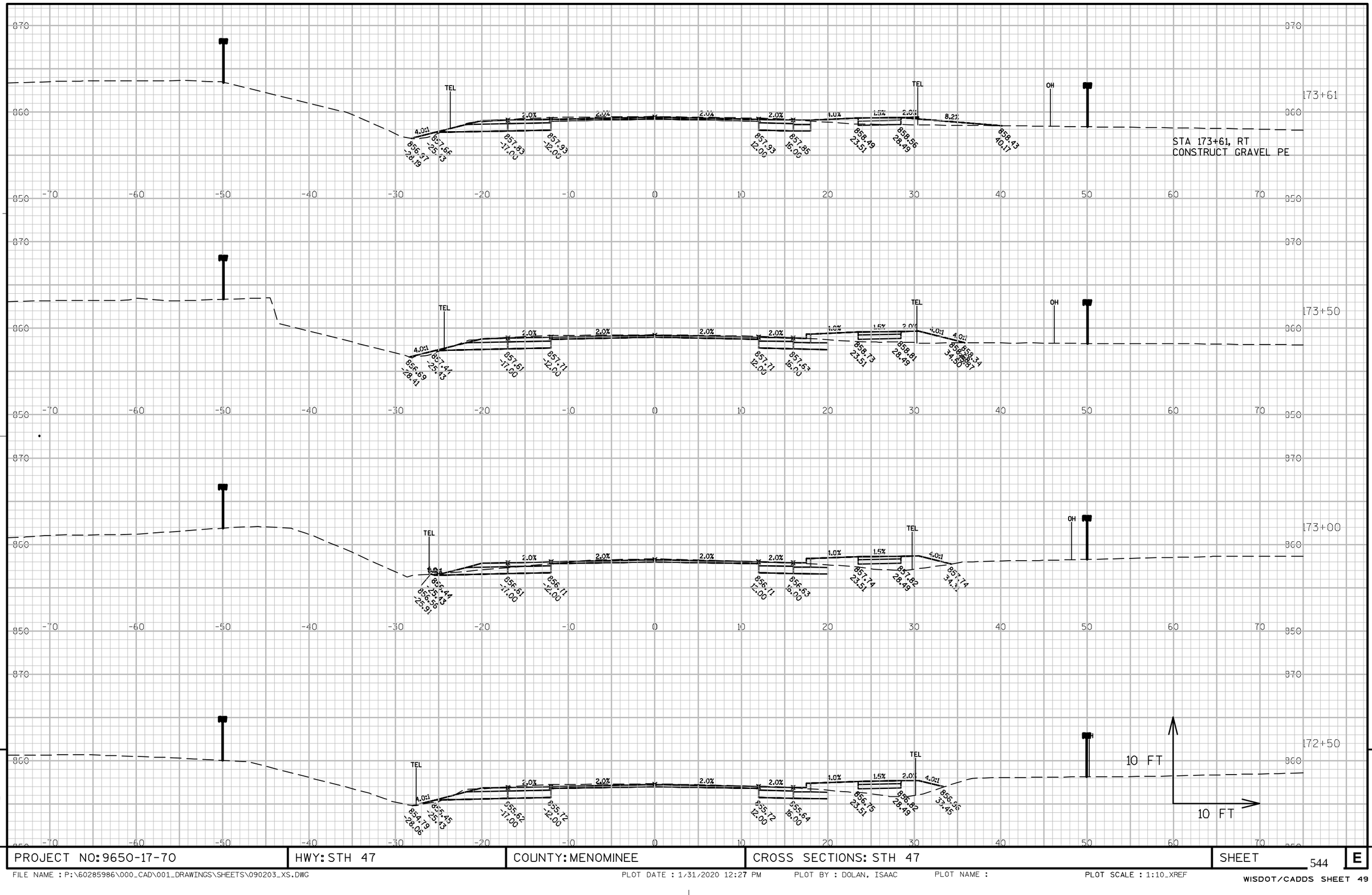
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 543	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090203_XS.DWG PLOT DATE : 1/31/2020 12:26 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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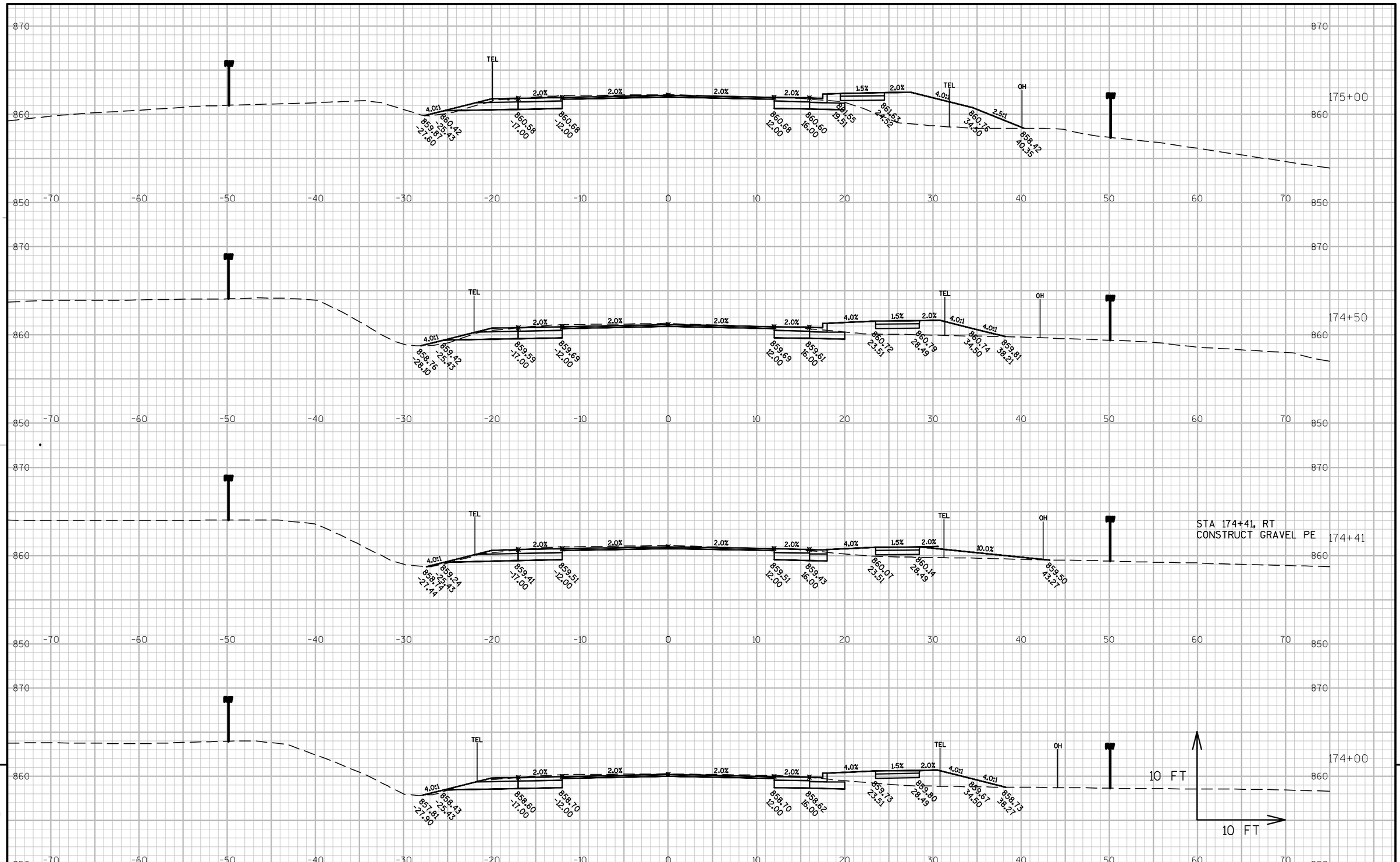
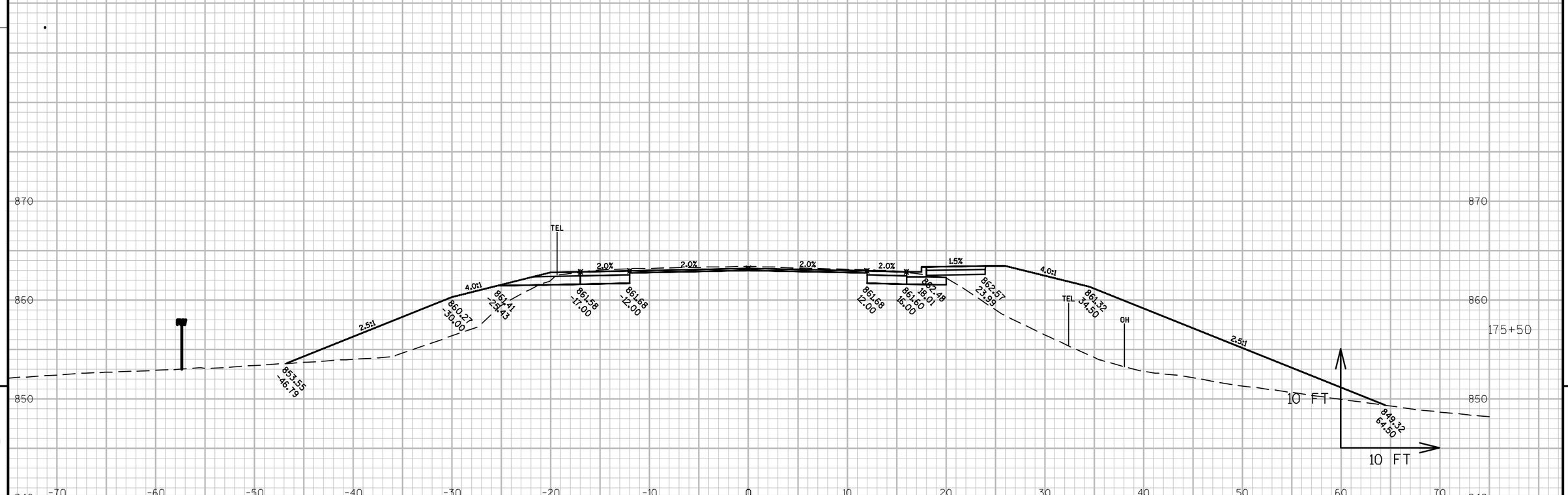
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 544	E



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 545 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090203_XS.DWG PLOT DATE : 1/31/2020 12:28 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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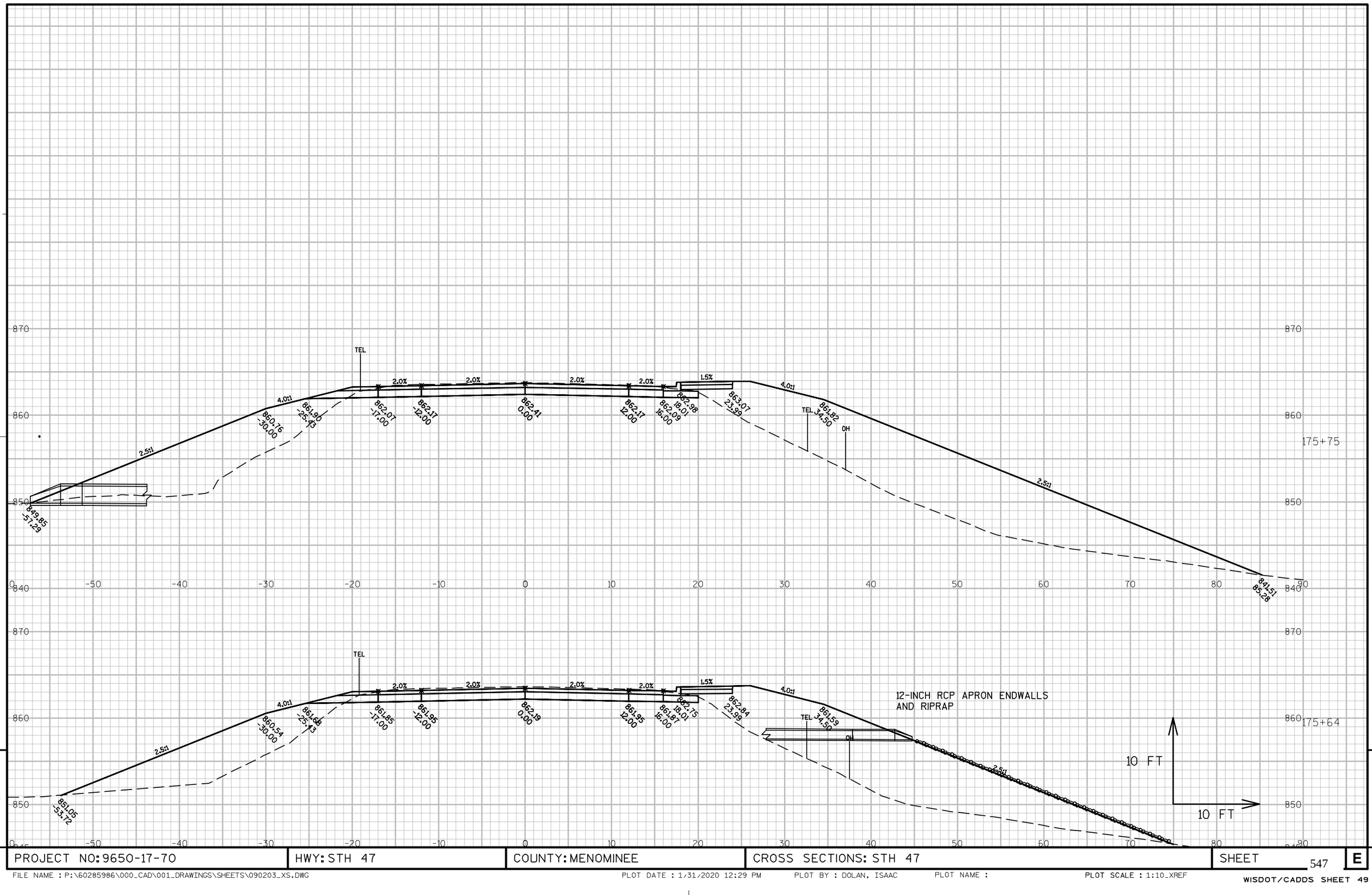
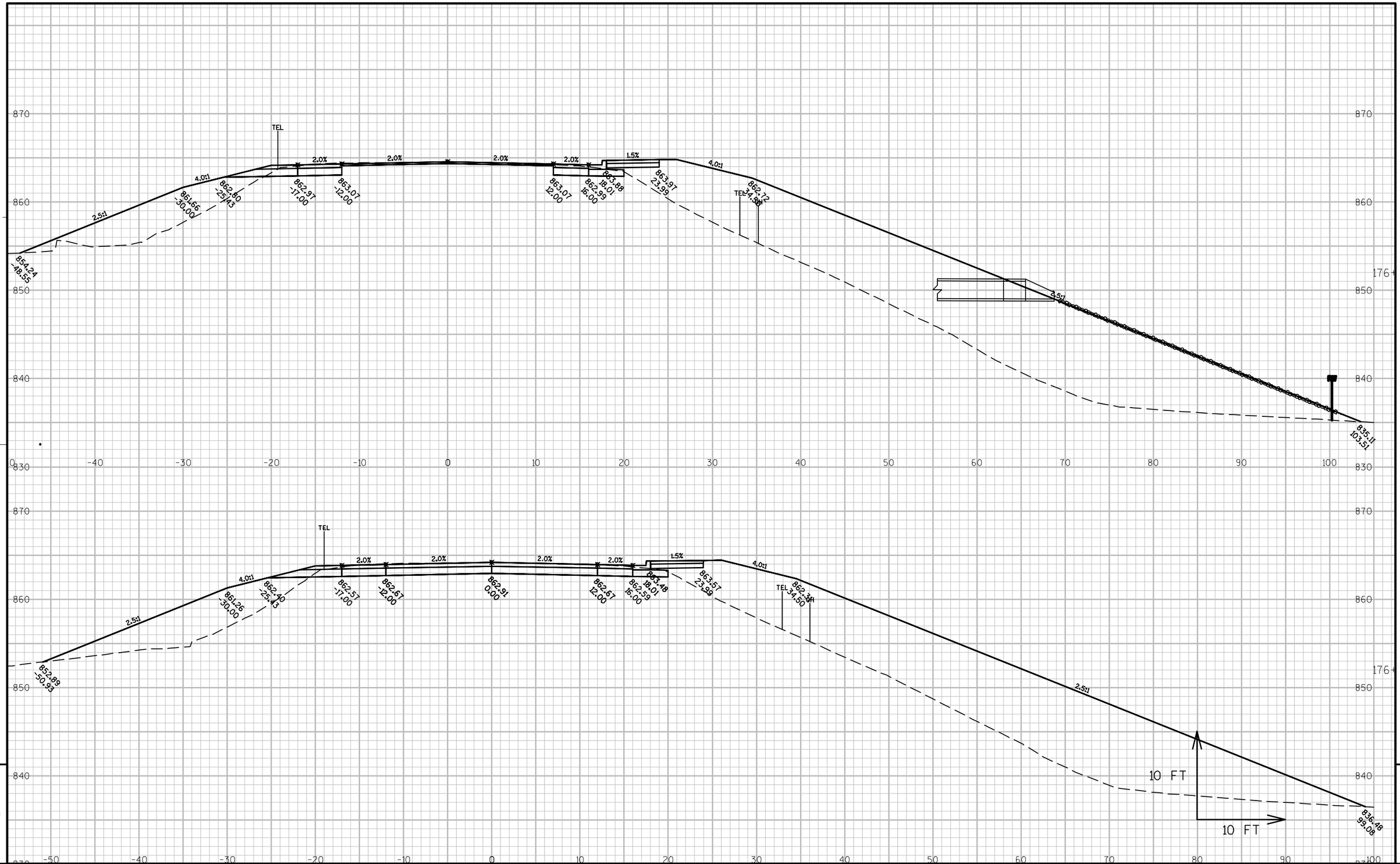
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 546	E



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 547	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090203_XS.DWG PLOT DATE : 1/31/2020 12:29 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1:10_XREF

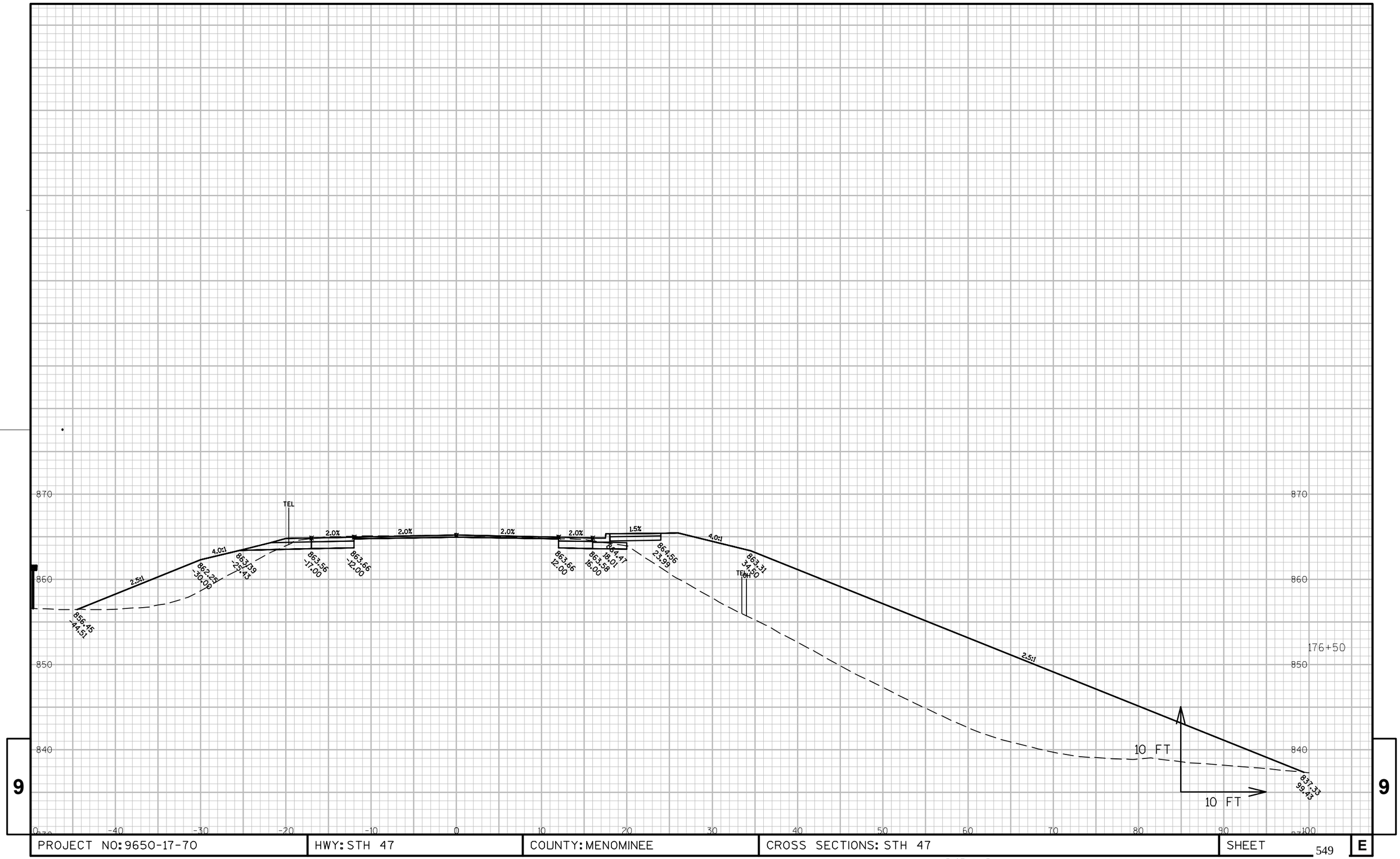
WISDOT/CADDS SHEET 49



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 548	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090203_XS.DWG PLOT DATE : 1/31/2020 12:29 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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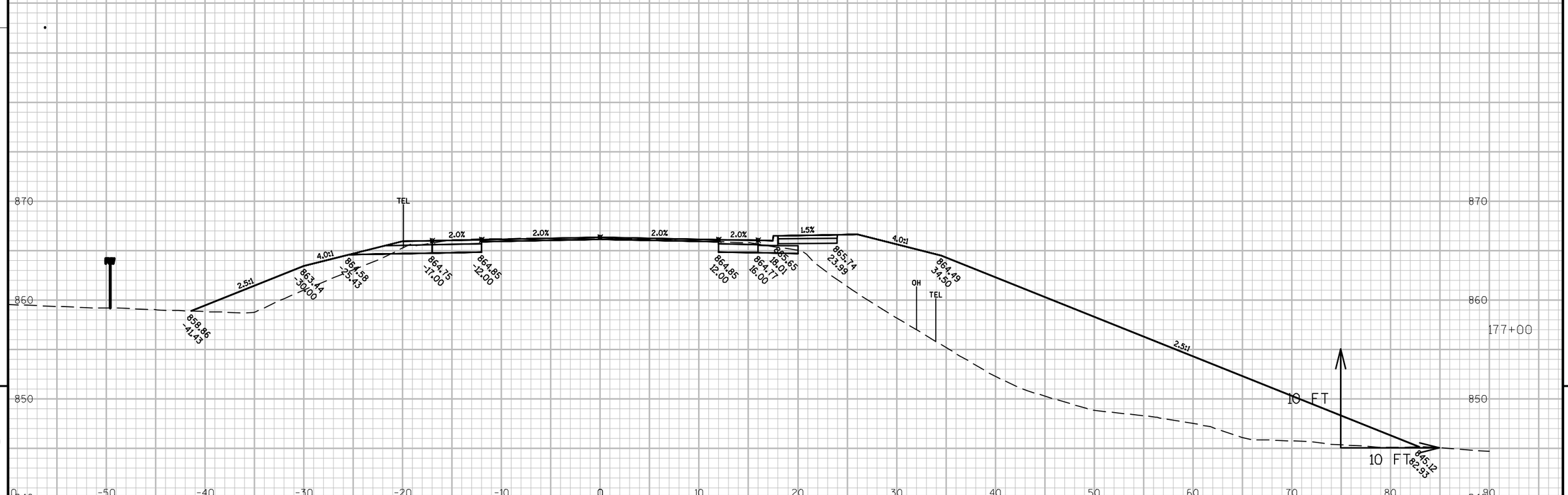
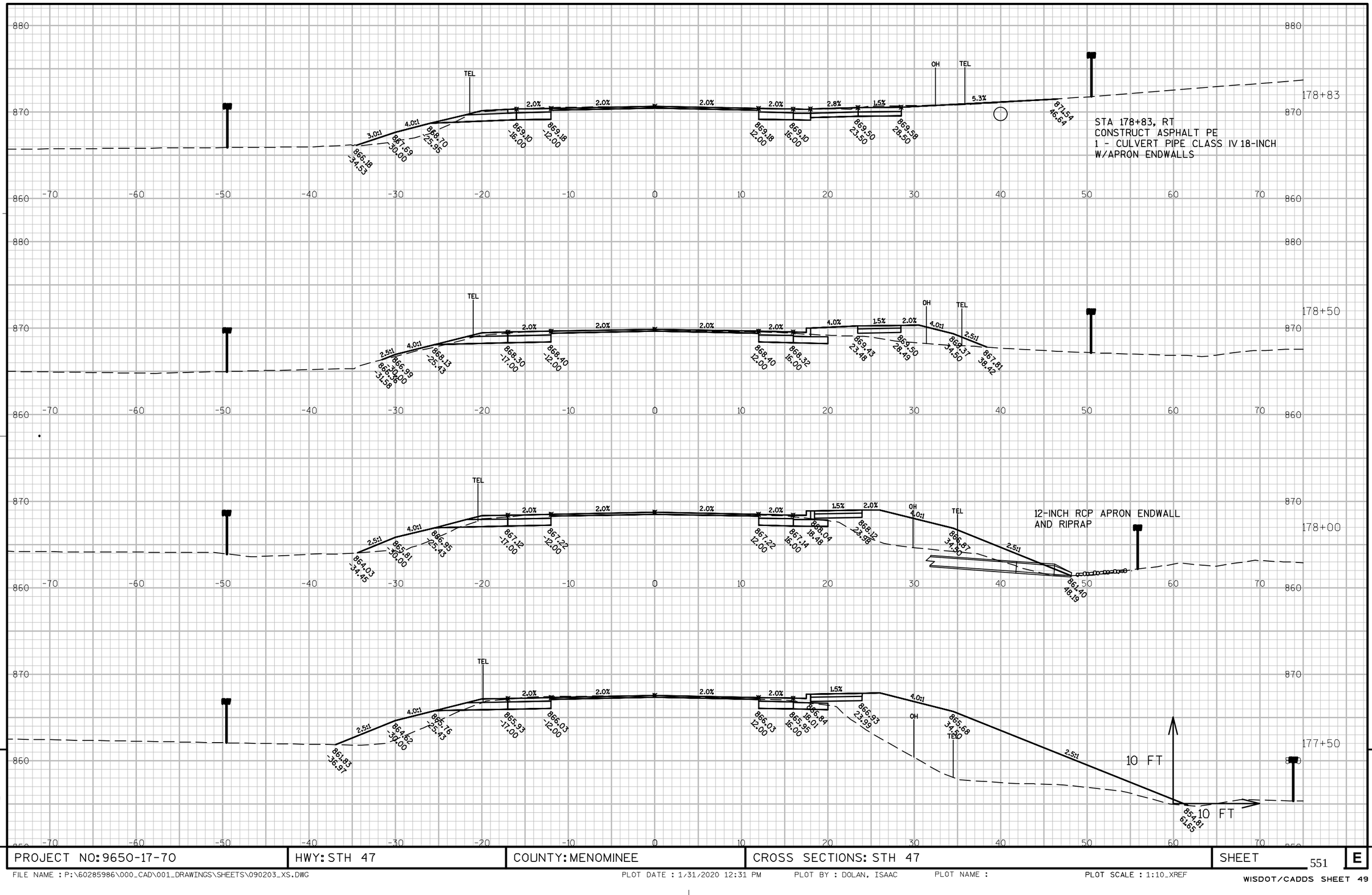
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 549	E



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 550	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090203_XS.DWG PLOT DATE : 1/31/2020 12:30 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1:10_XREF

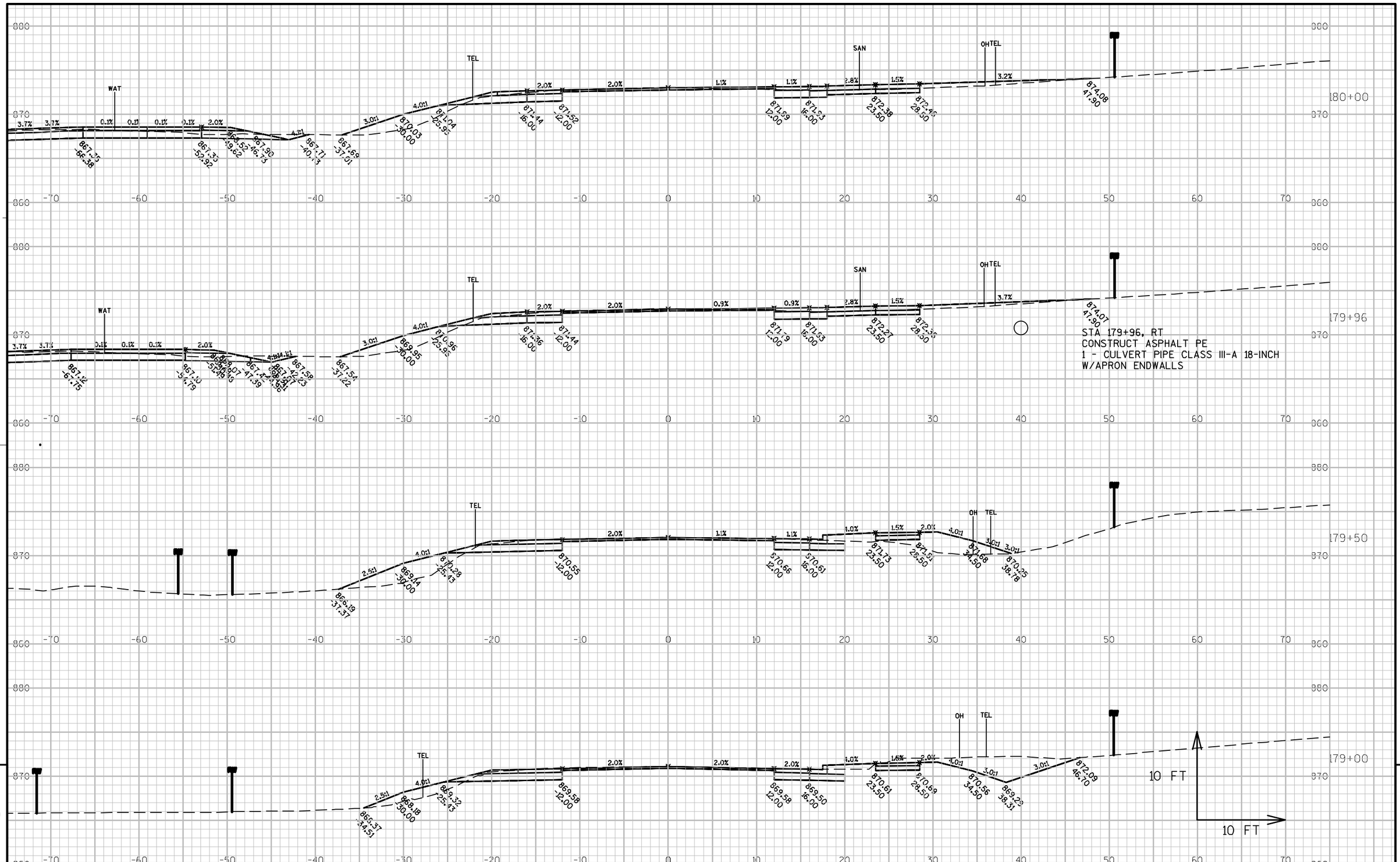
WISDOT/CADDS SHEET 49



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 551 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090203_XS.DWG PLOT DATE : 1/31/2020 12:31 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 552	E

181+50

181+33

STA 181+33, RT
CONSTRUCT GRAVEL PE
1 - CULVERT PIPE CLASS III-A 18-INCH
W/APRON ENDWALLS

181+00

180+75

STA 180+75, LT
CONSTRUCT URBAN INTERSECTION
MATCH EXISTING
SAWCUT REQUIRED

180+54

STA 180+54, RT
CONSTRUCT GRAVEL PE
1 - CULVERT PIPE CLASS III-A 18-INCH
W/APRON ENDWALLS

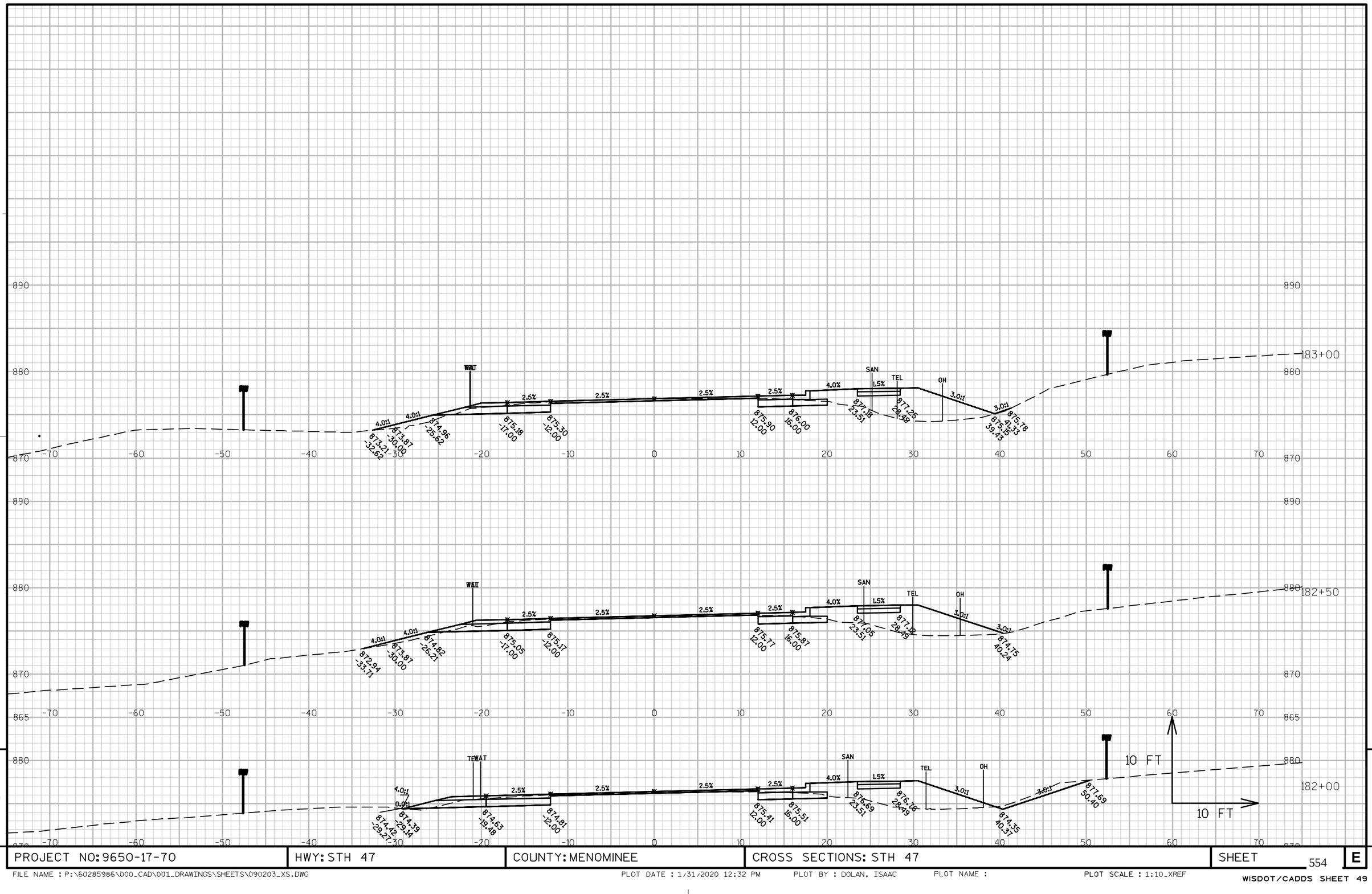
180+50

10 FT
10 FT

9

9

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 553	E



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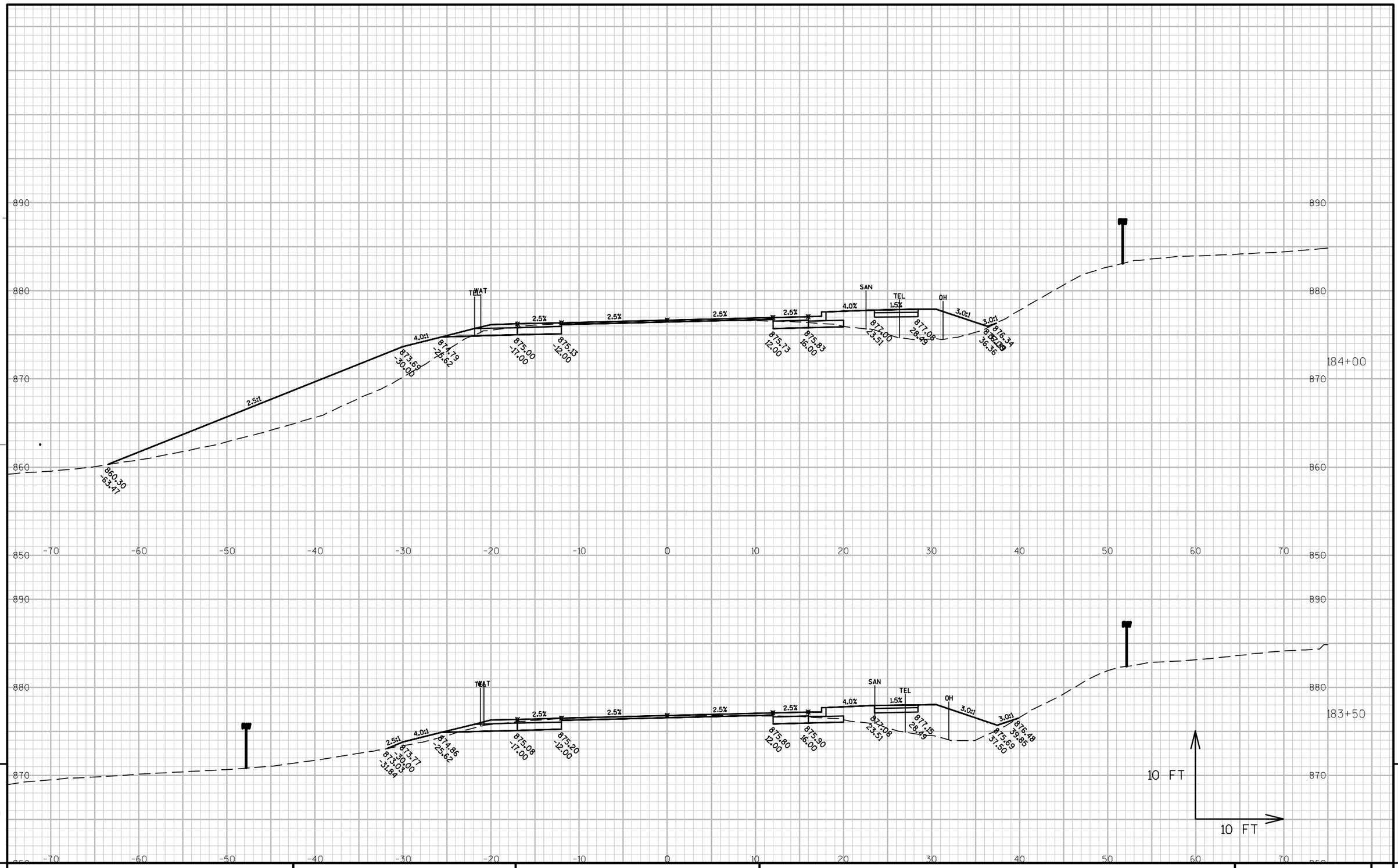
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 554	E



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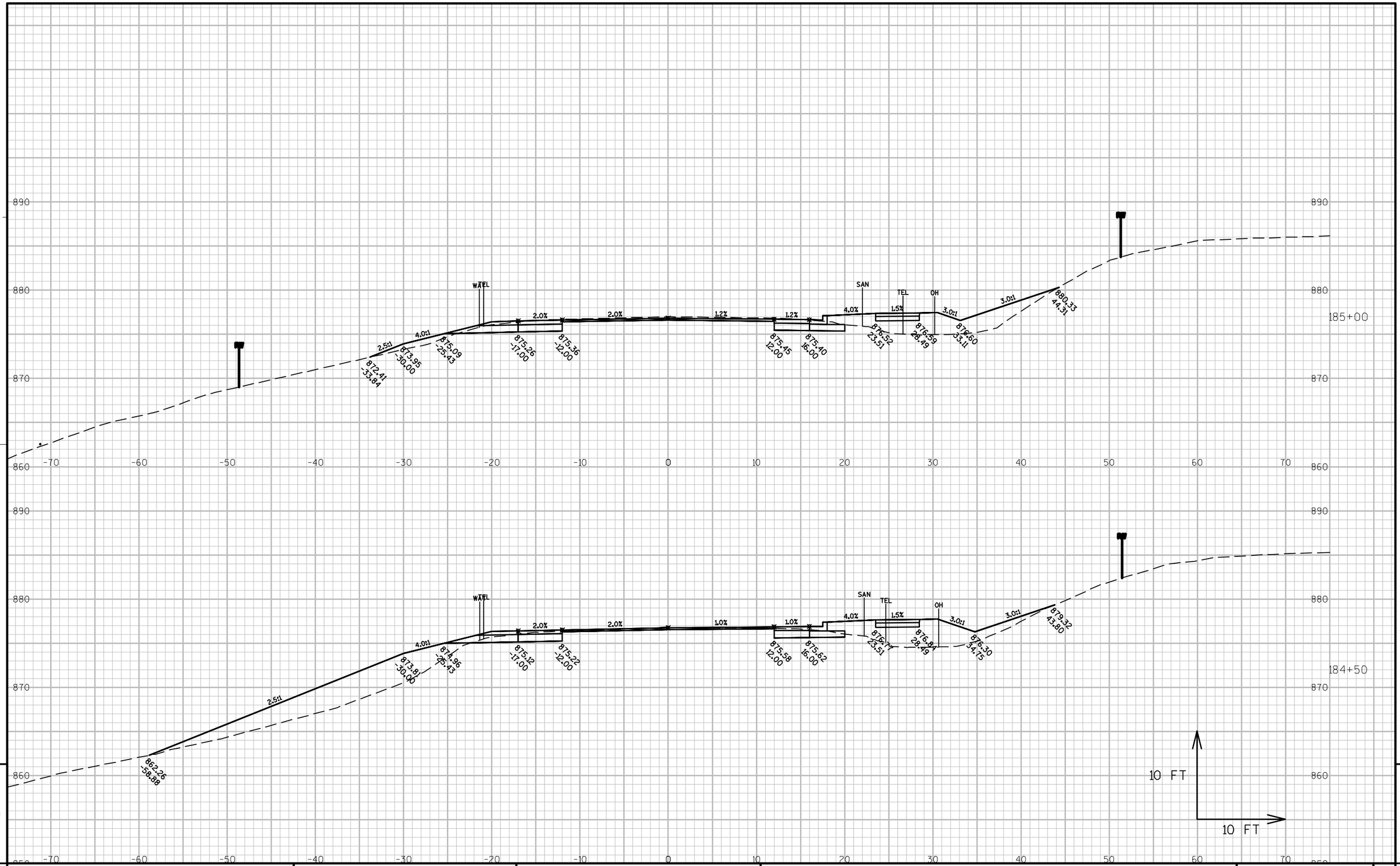
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 555	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090203_XS.DWG PLOT DATE : 1/31/2020 12:33 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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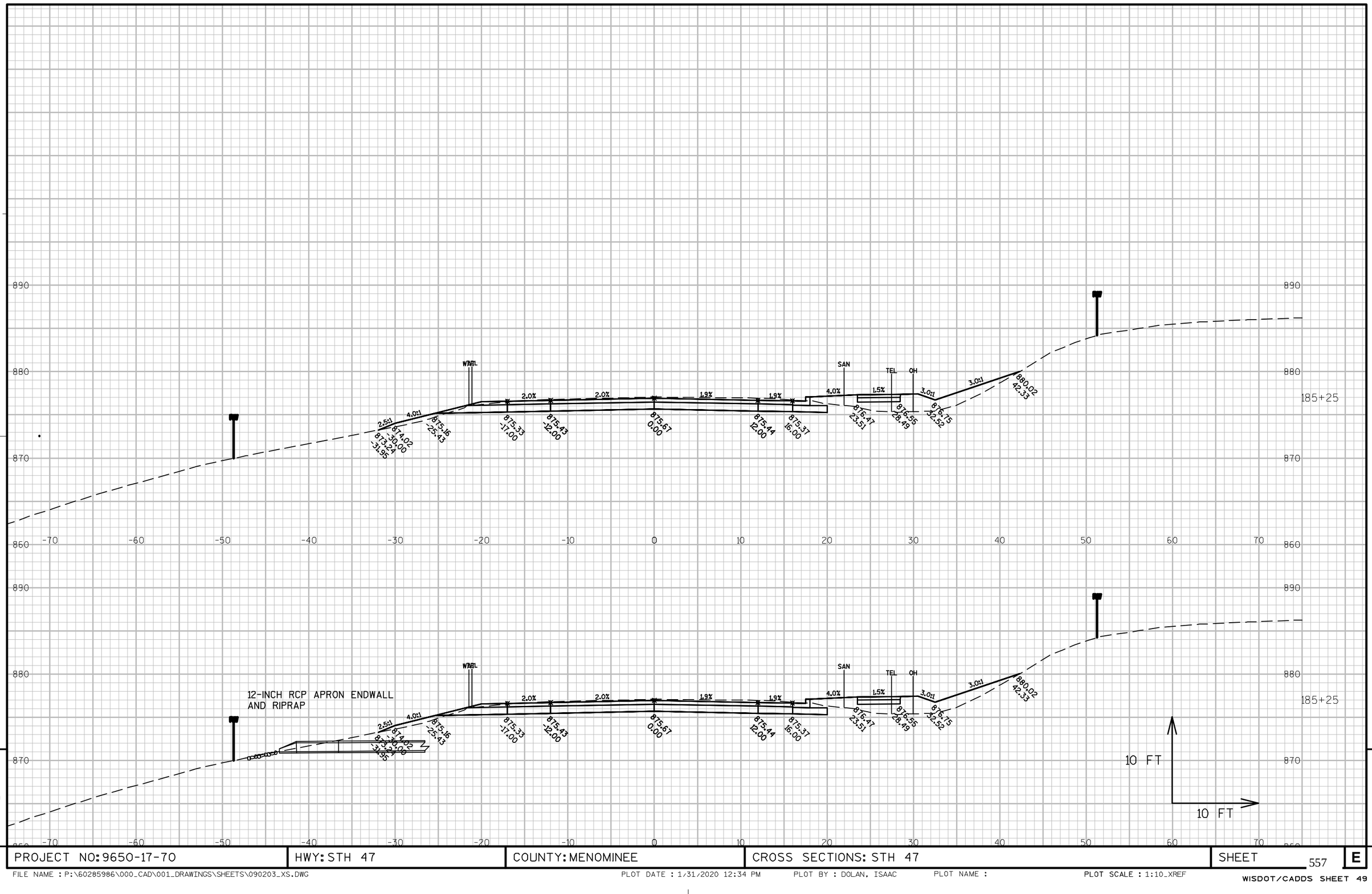
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 556	E

9

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090203_XS.DWG PLOT DATE : 1/31/2020 12:33 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1:10_XREF

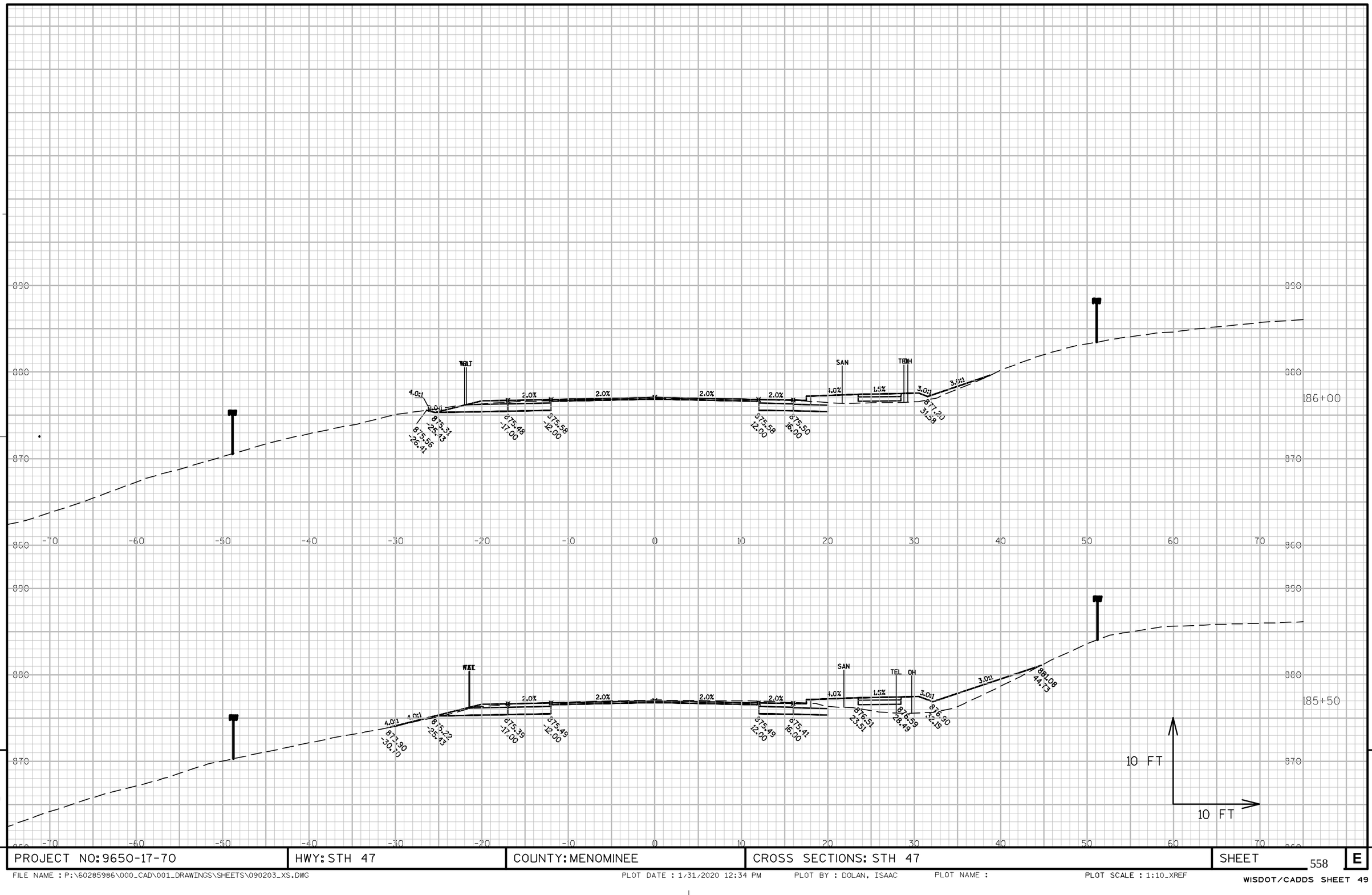
WISDOT/CADDS SHEET 49



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 557	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090203_XS.DWG PLOT DATE : 1/31/2020 12:34 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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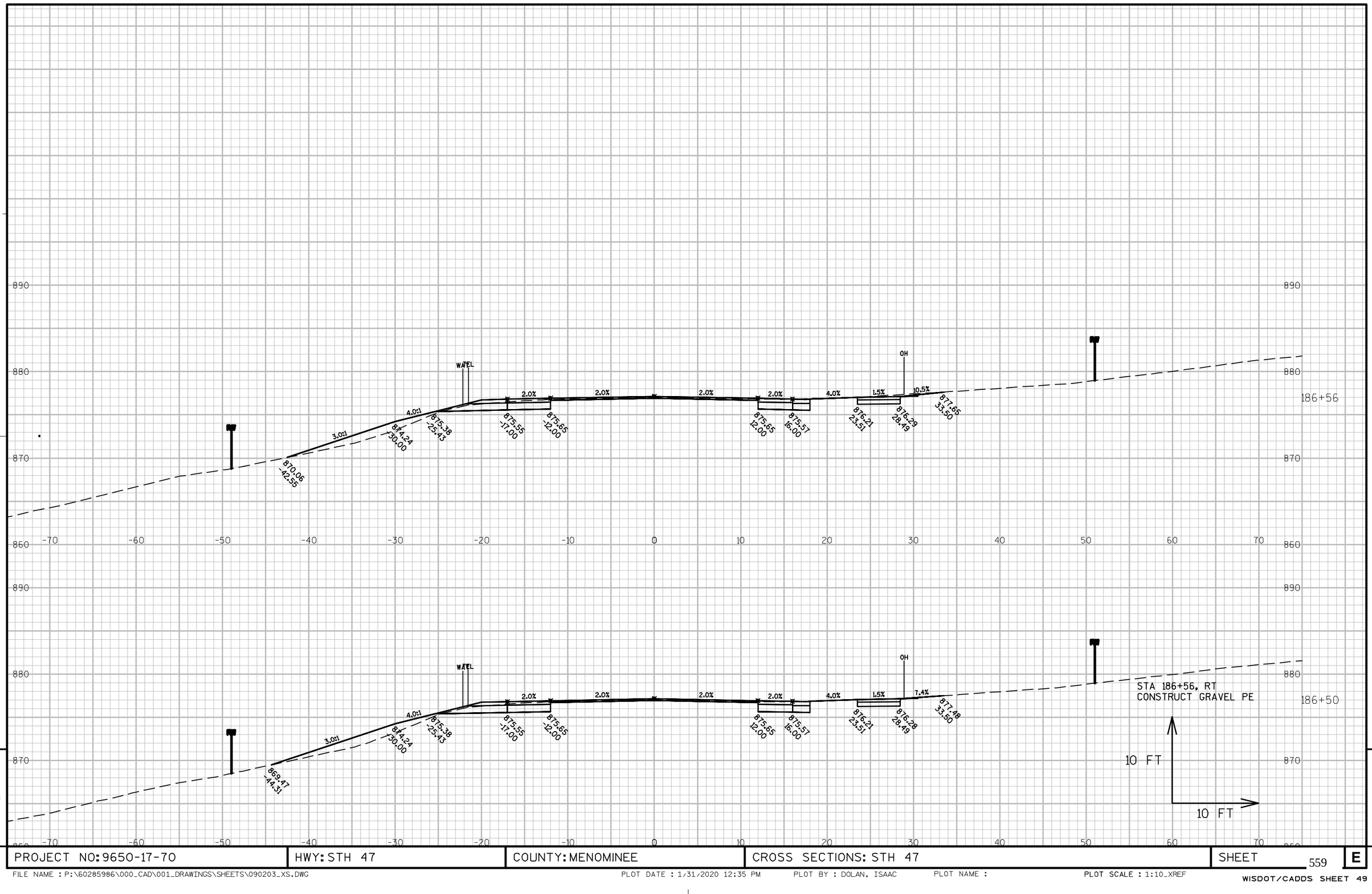
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 558	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090203_XS.DWG PLOT DATE : 1/31/2020 12:34 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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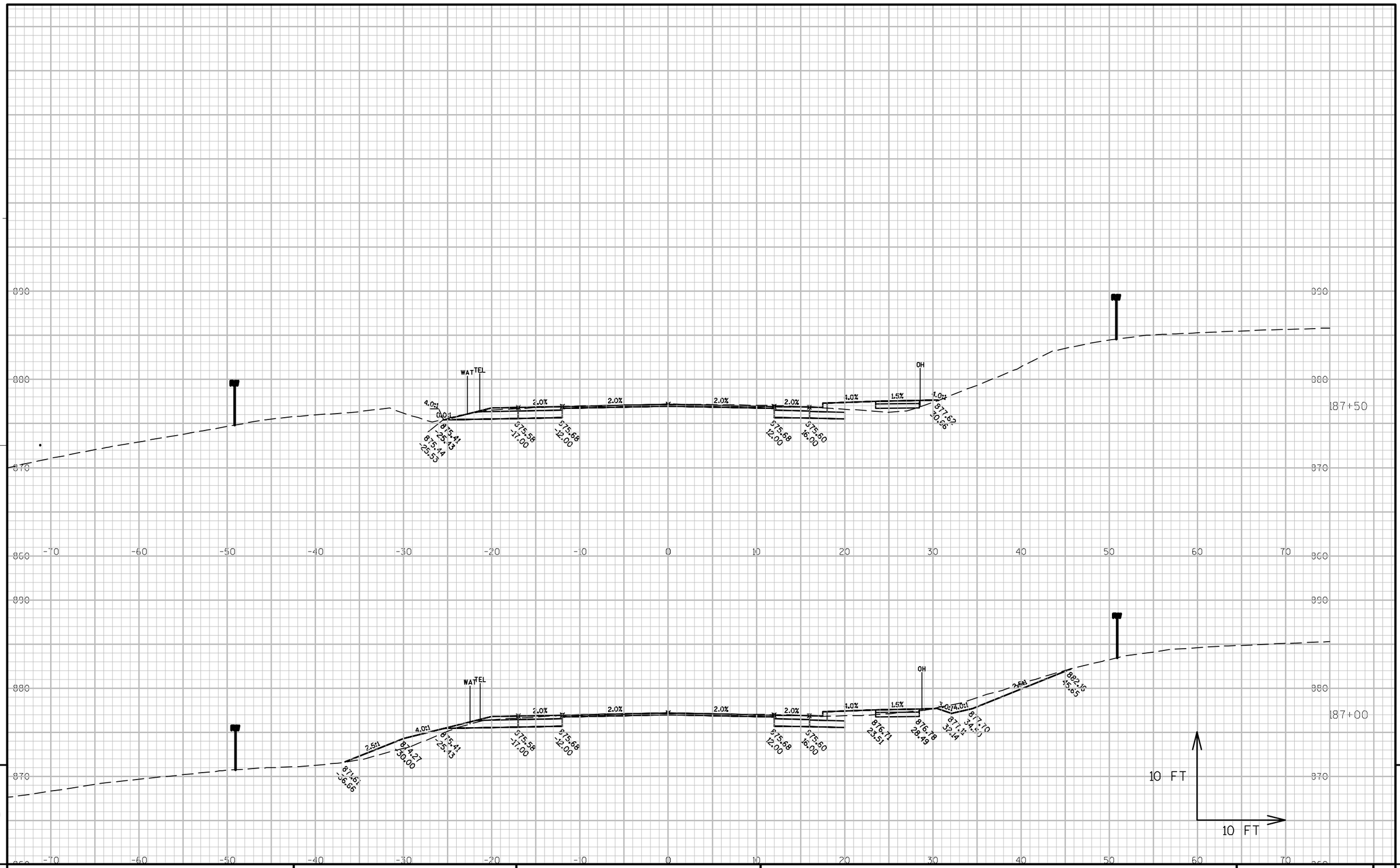
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 559	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090203_XS.DWG PLOT DATE : 1/31/2020 12:35 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1:10_XREF

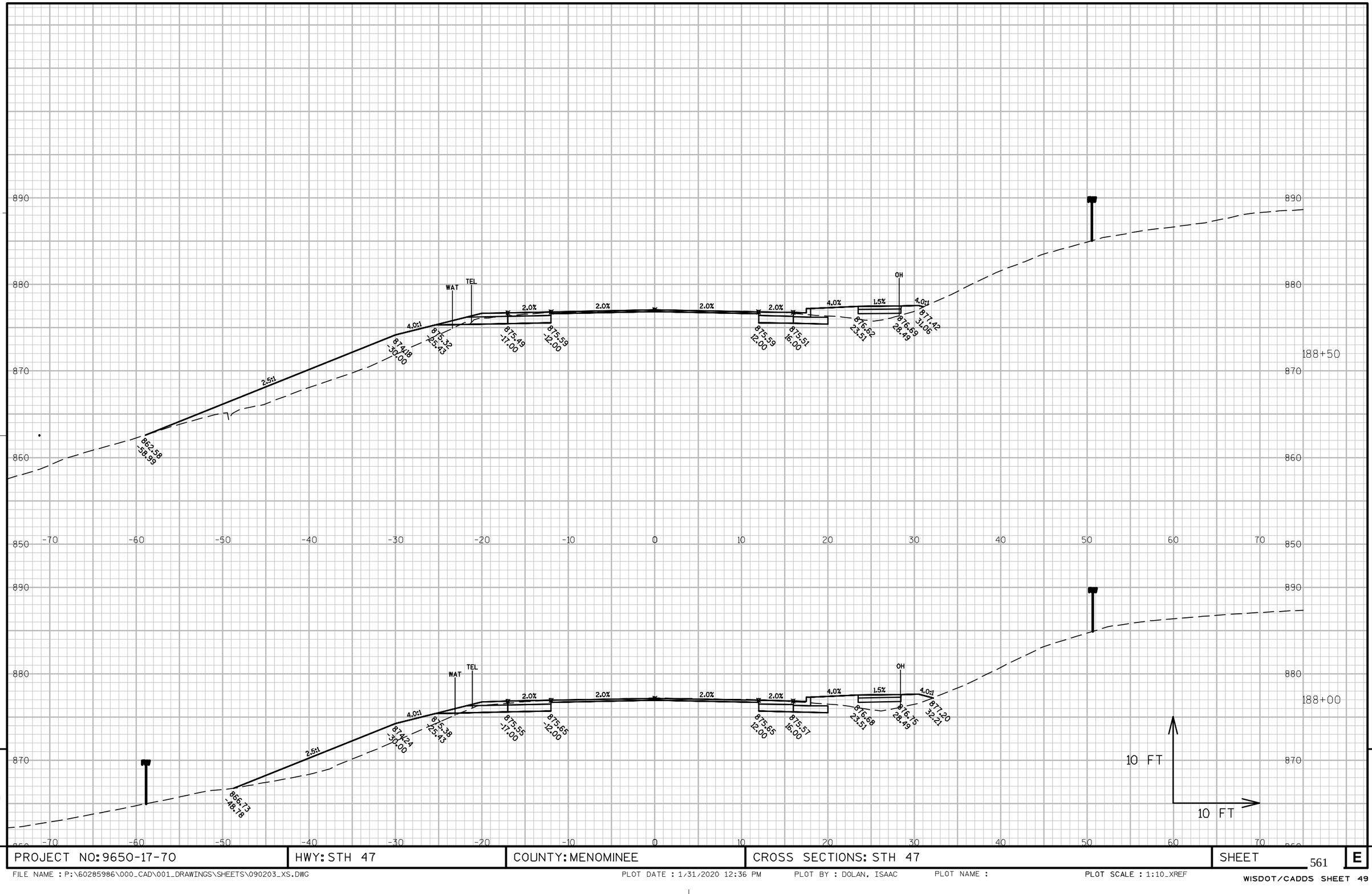
WISDOT/CADDS SHEET 49



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 560 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090203_XS.DWG PLOT DATE : 1/31/2020 12:36 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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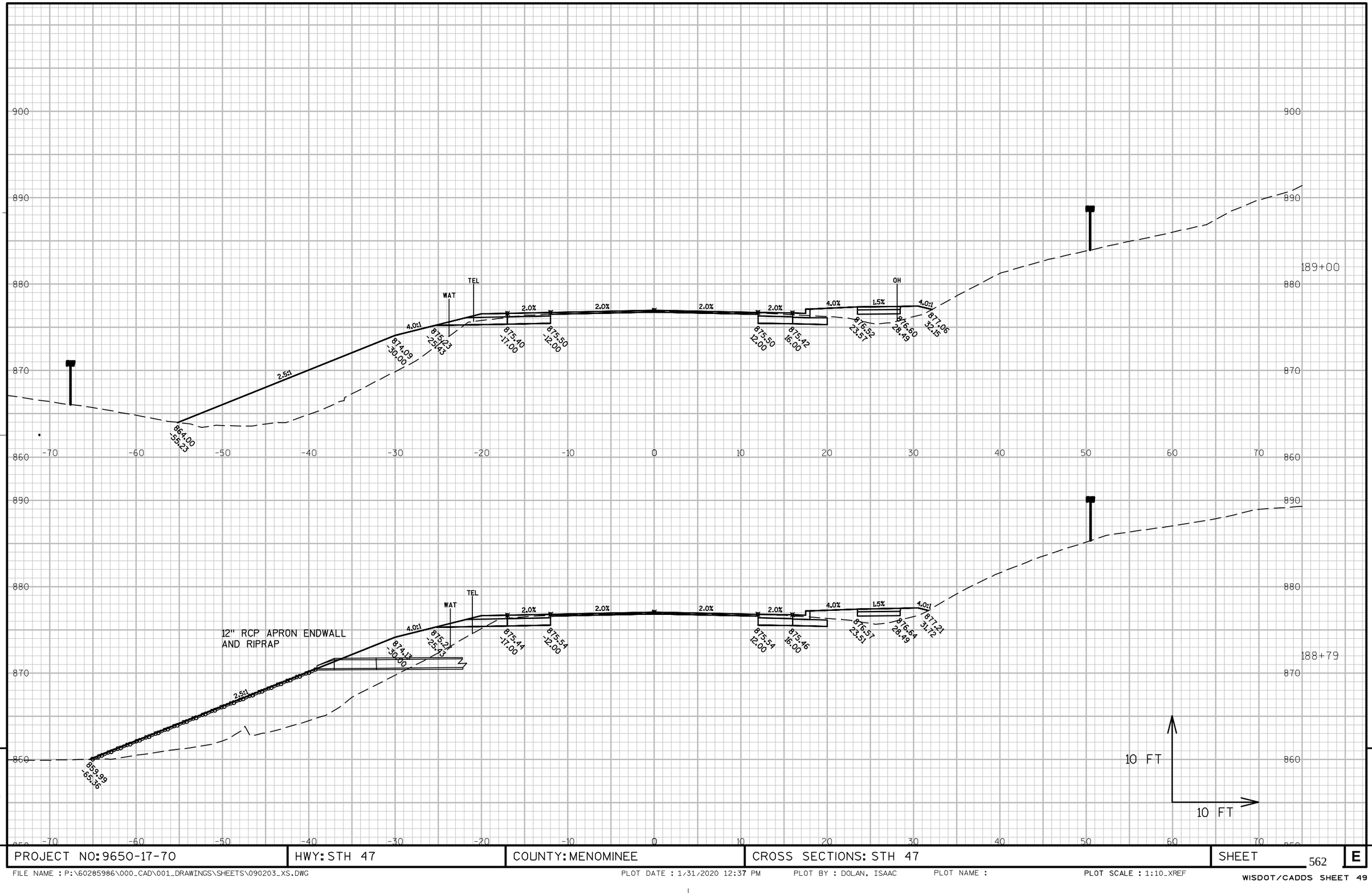
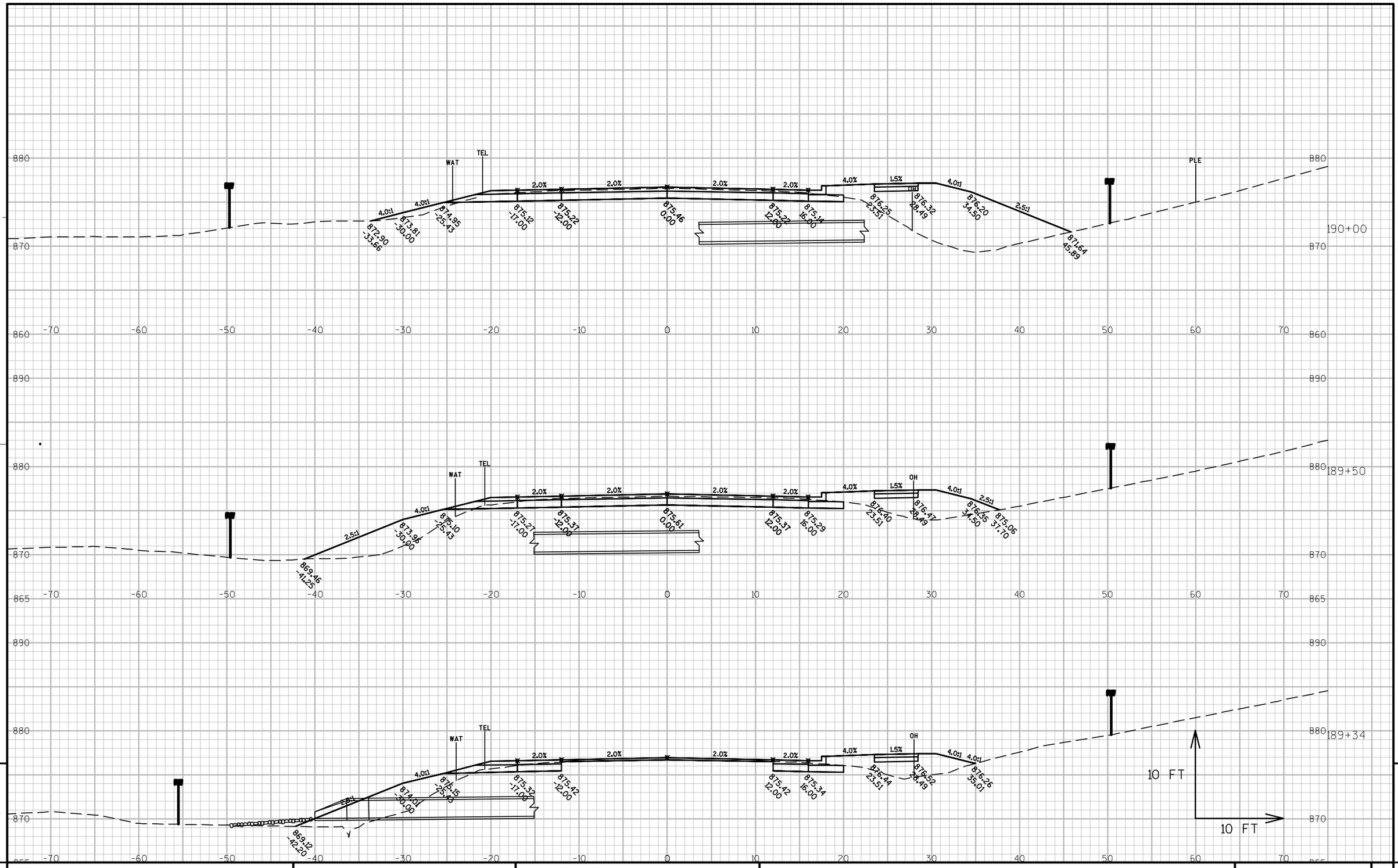
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 561	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090203_XS.DWG PLOT DATE : 1/31/2020 12:36 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 562	E



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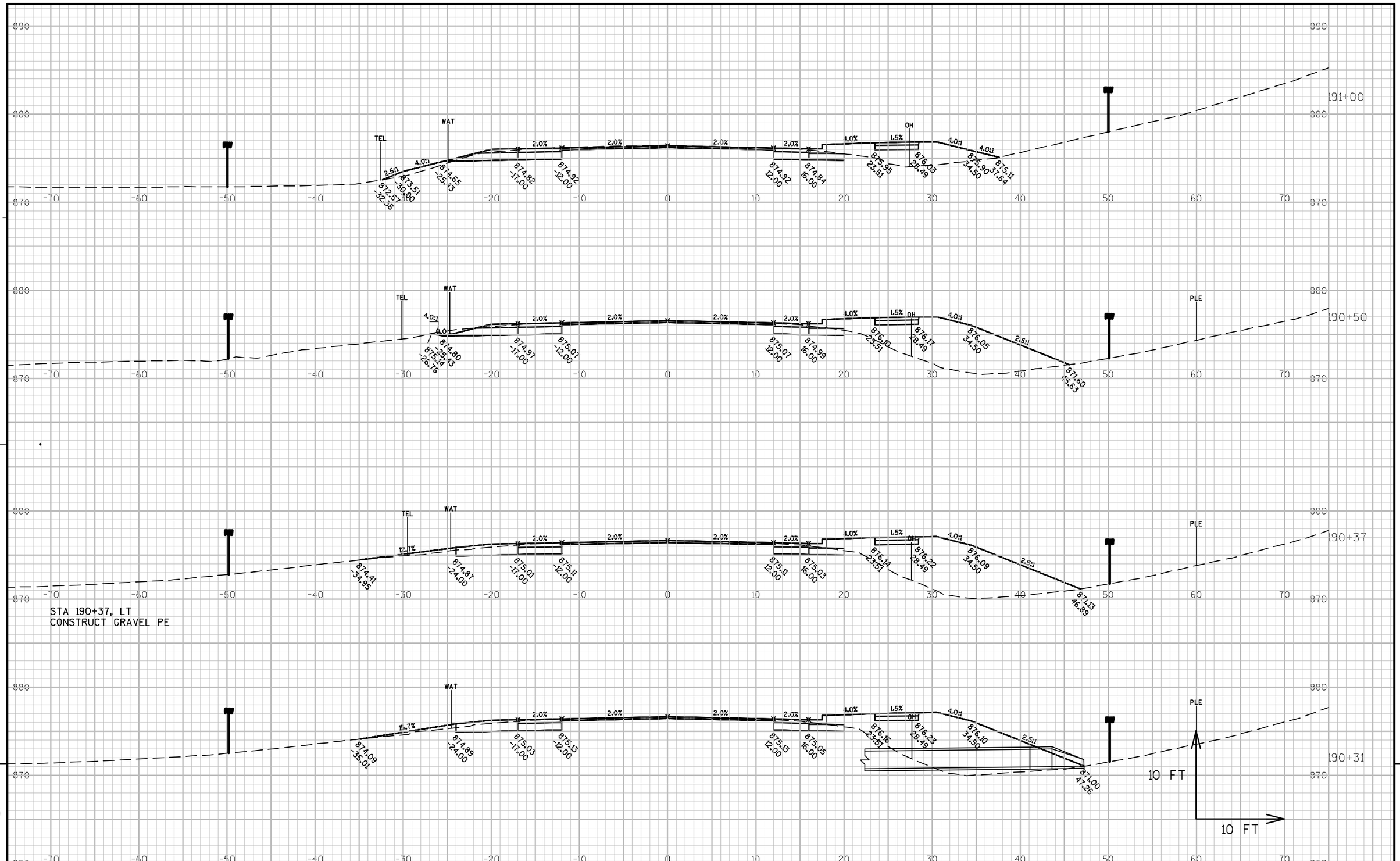
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 563	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090203_XS.DWG PLOT DATE : 1/31/2020 12:37 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1:10_XREF

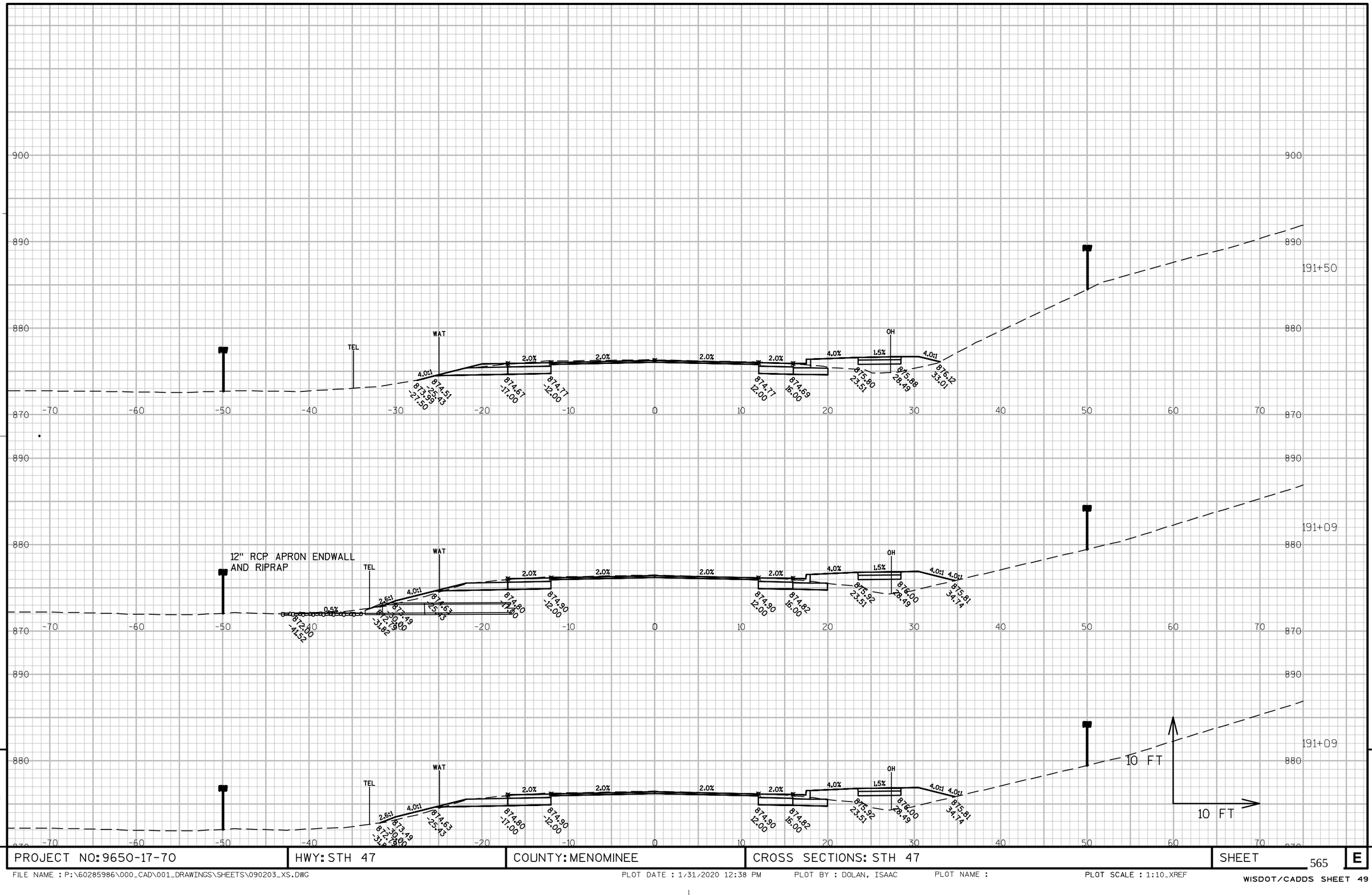
WISDOT/CADDS SHEET 49



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 564	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090203_XS.DWG PLOT DATE : 1/31/2020 12:38 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49

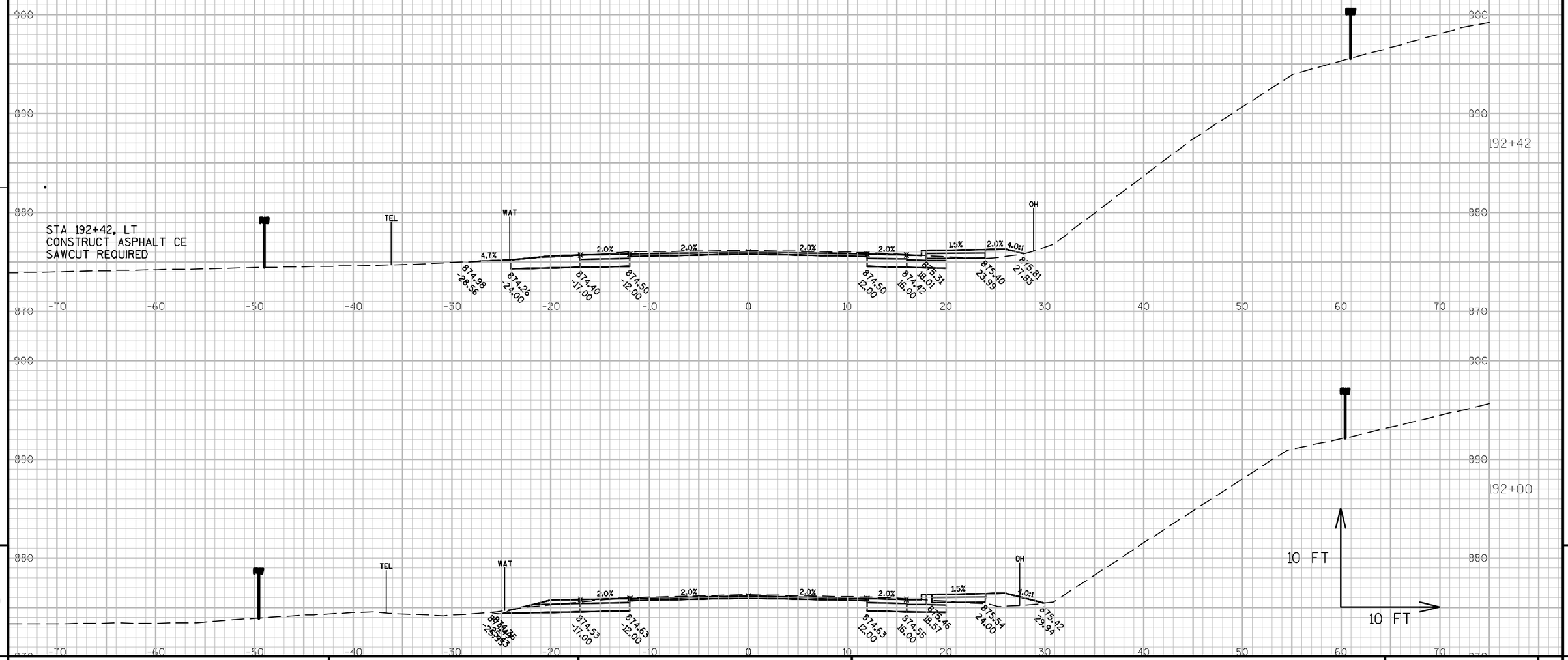


PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 565 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090203_XS.DWG PLOT DATE : 1/31/2020 12:38 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1:10_XREF

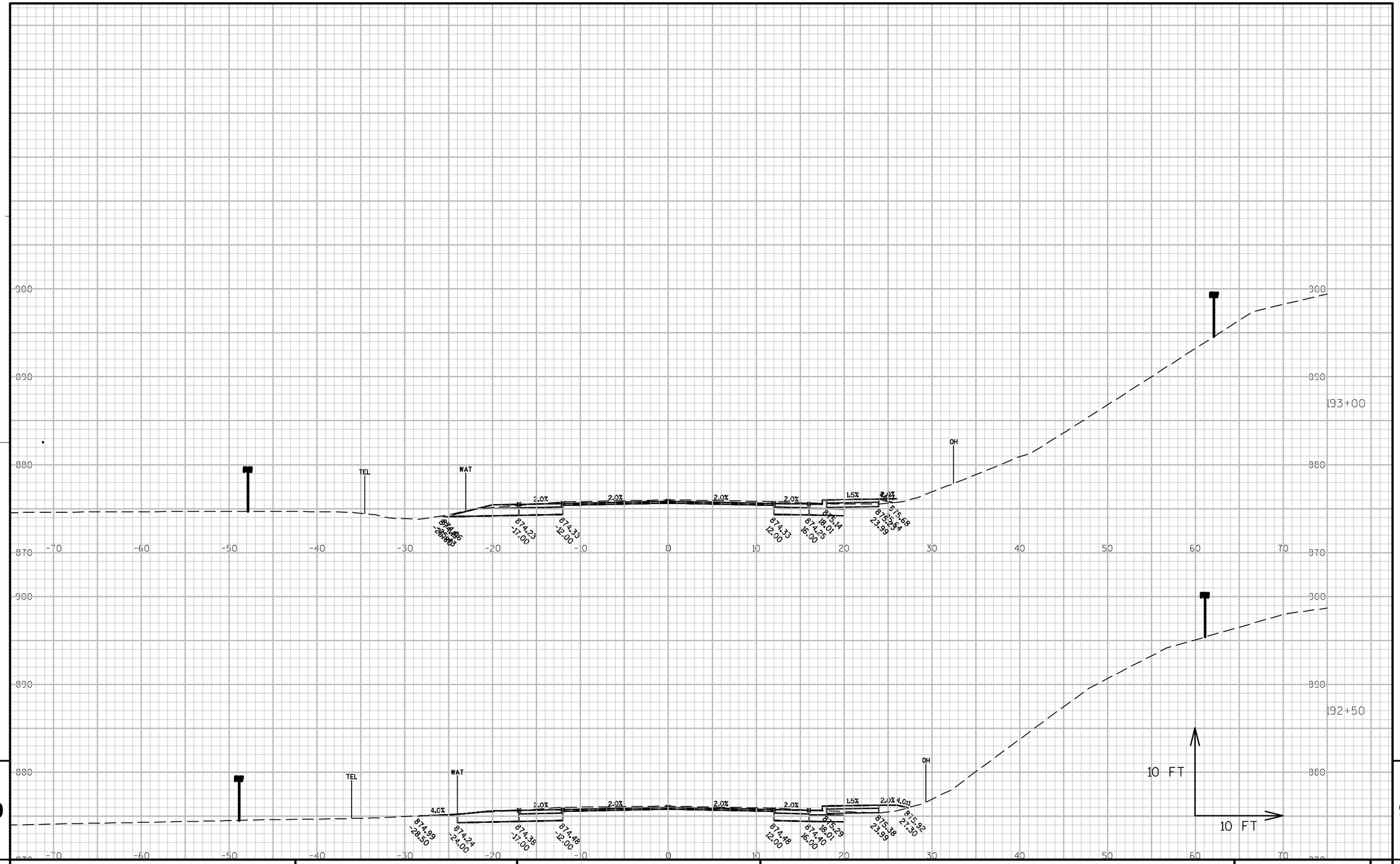
WISDOT/CADDS SHEET 49

STA 192+42, LT
CONSTRUCT ASPHALT CE
SAWCUT REQUIRED



9 9

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 566	E



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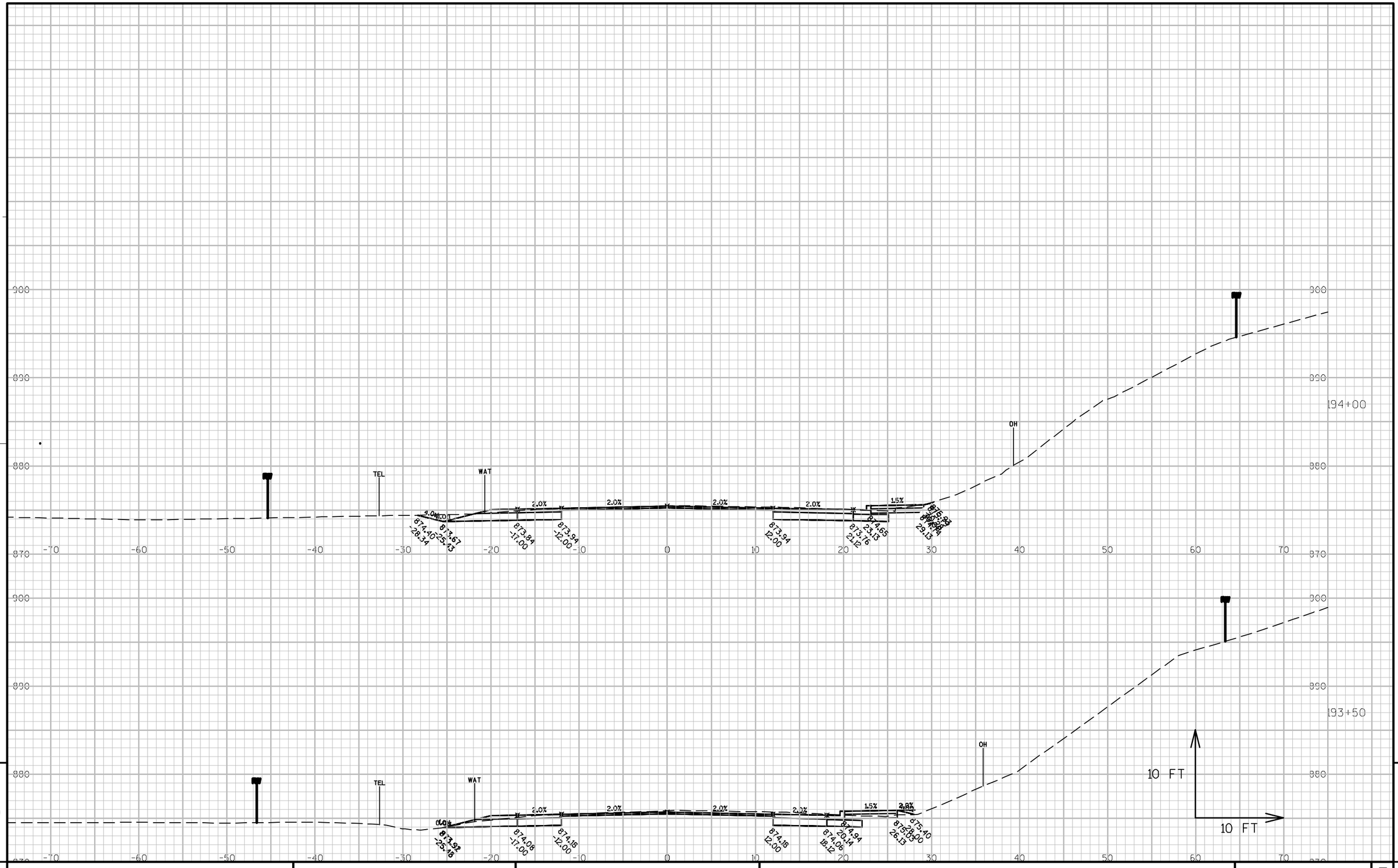
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 567 E



9

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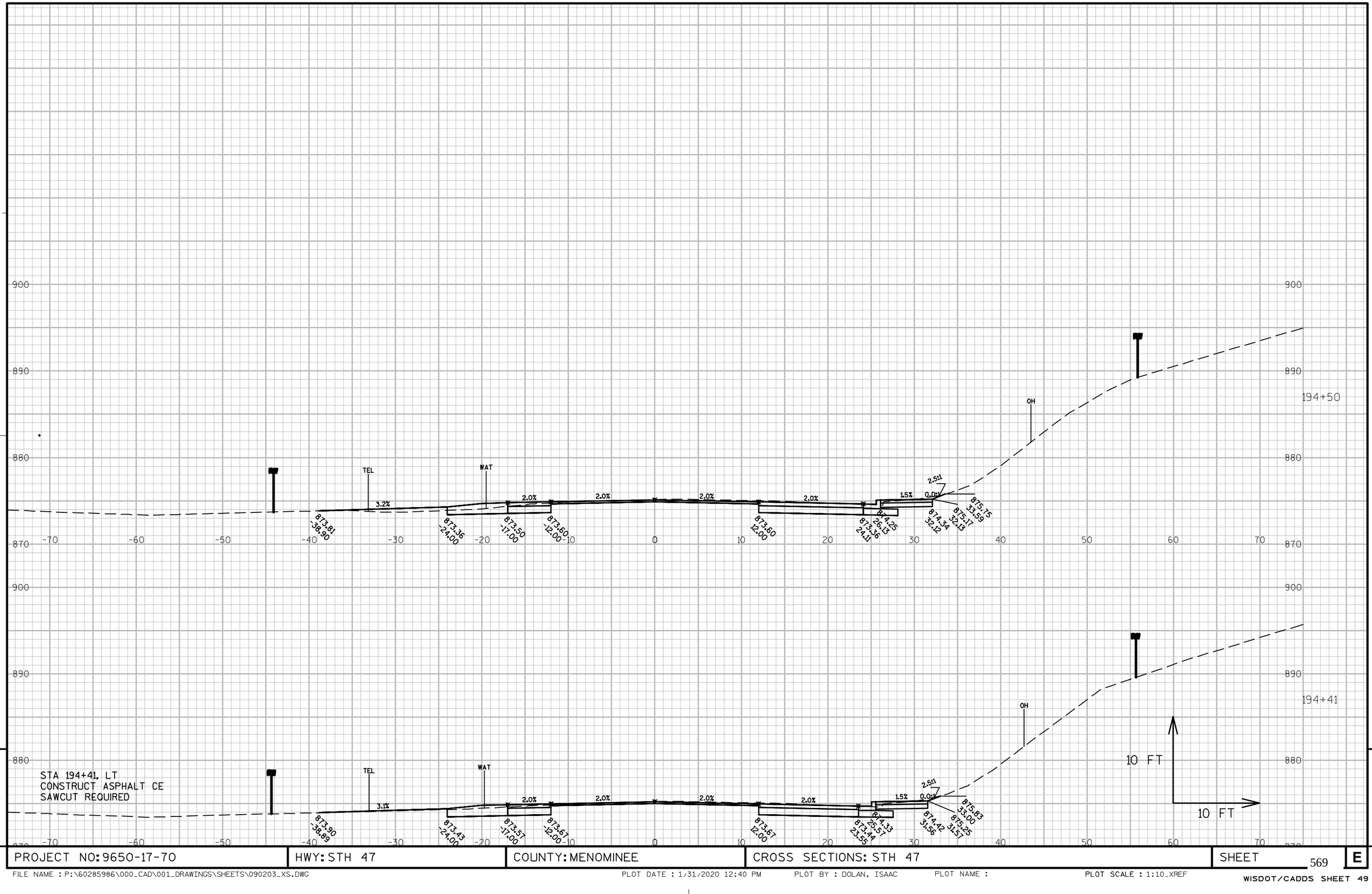
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 568	E

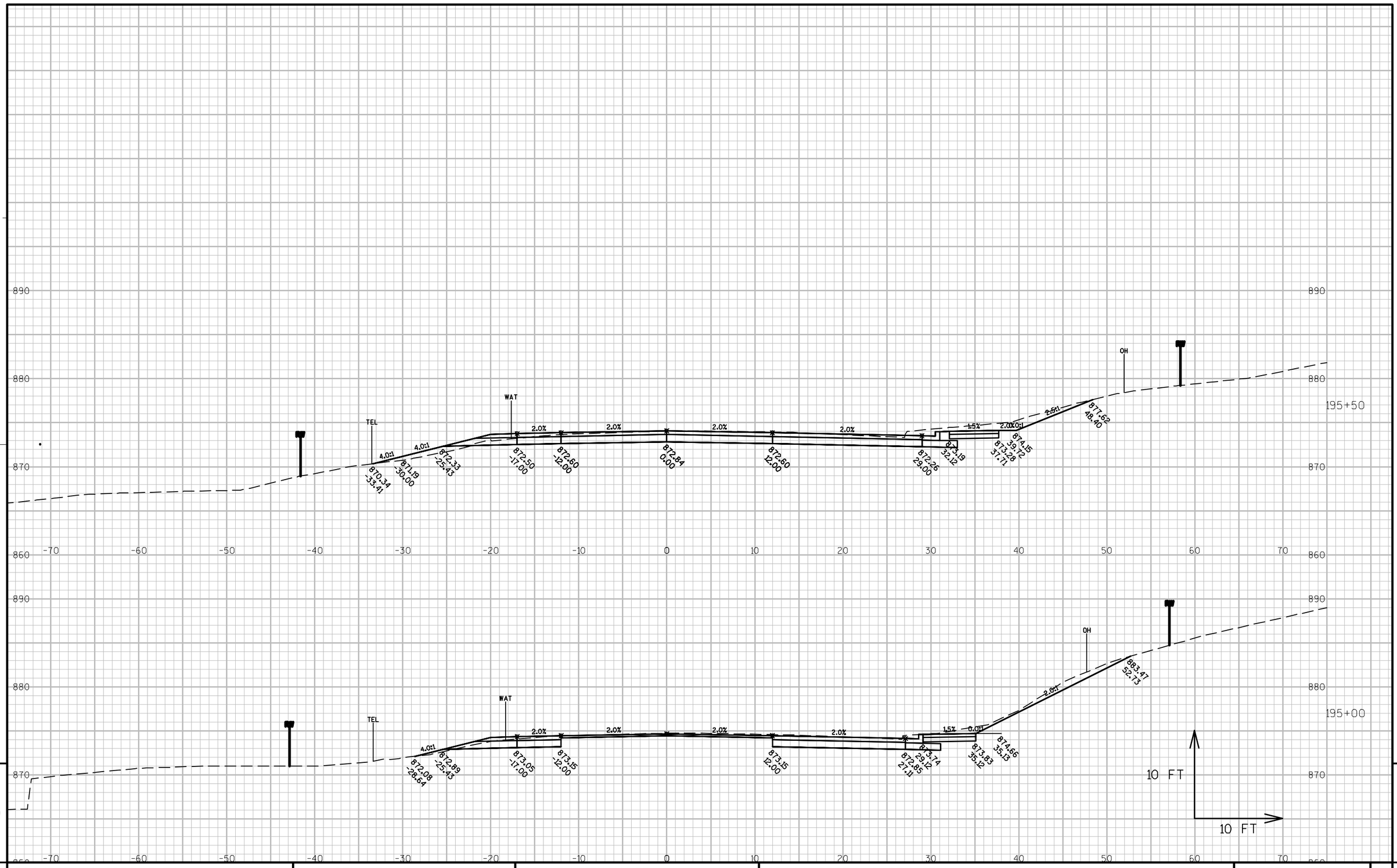
FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090203_XS.DWG PLOT DATE : 1/31/2020 12:40 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



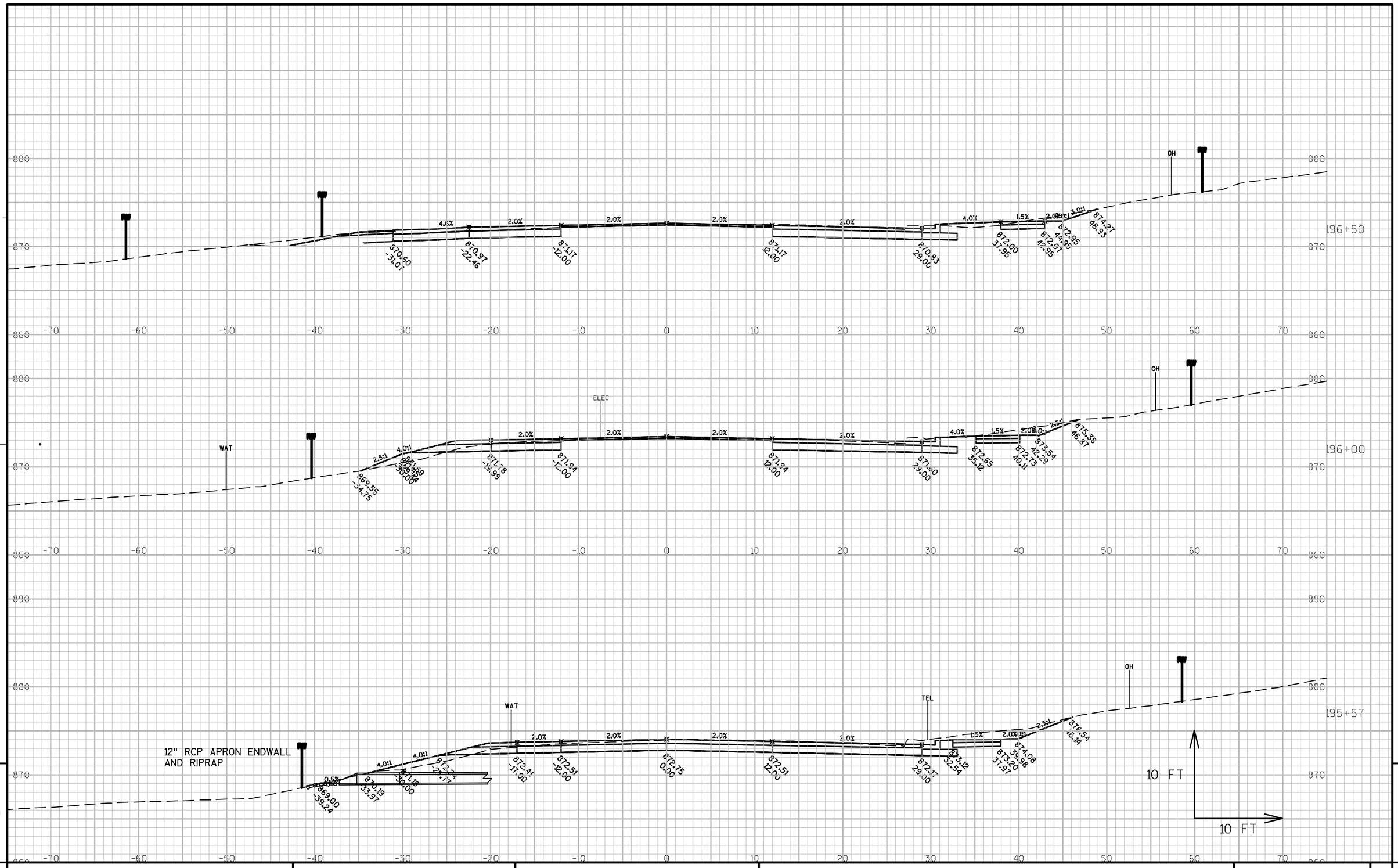
9 9

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 569	E



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 570	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090203_XS.DWG PLOT DATE : 1/31/2020 12:41 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1:10_XREF

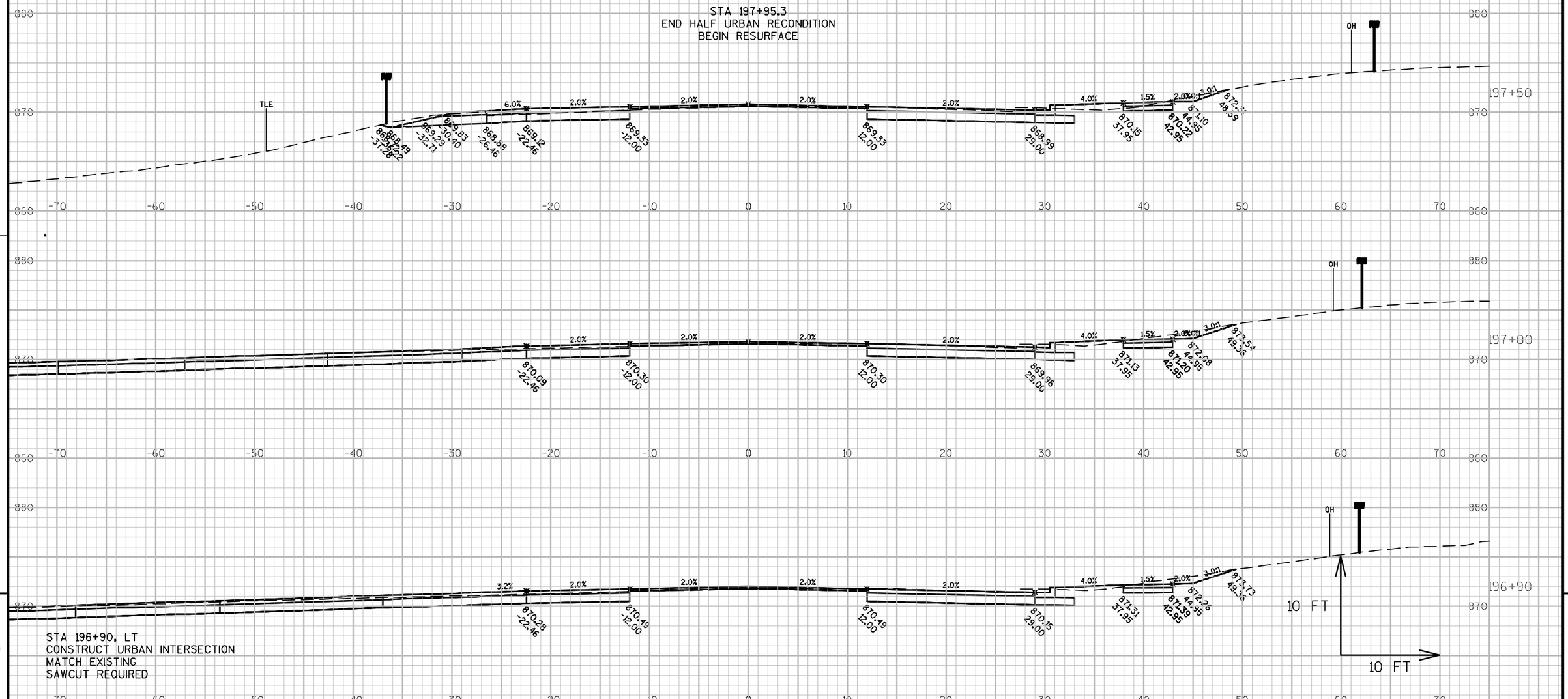


PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 571	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090203_XS.DWG PLOT DATE : 1/31/2020 12:42 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1:10_XREF

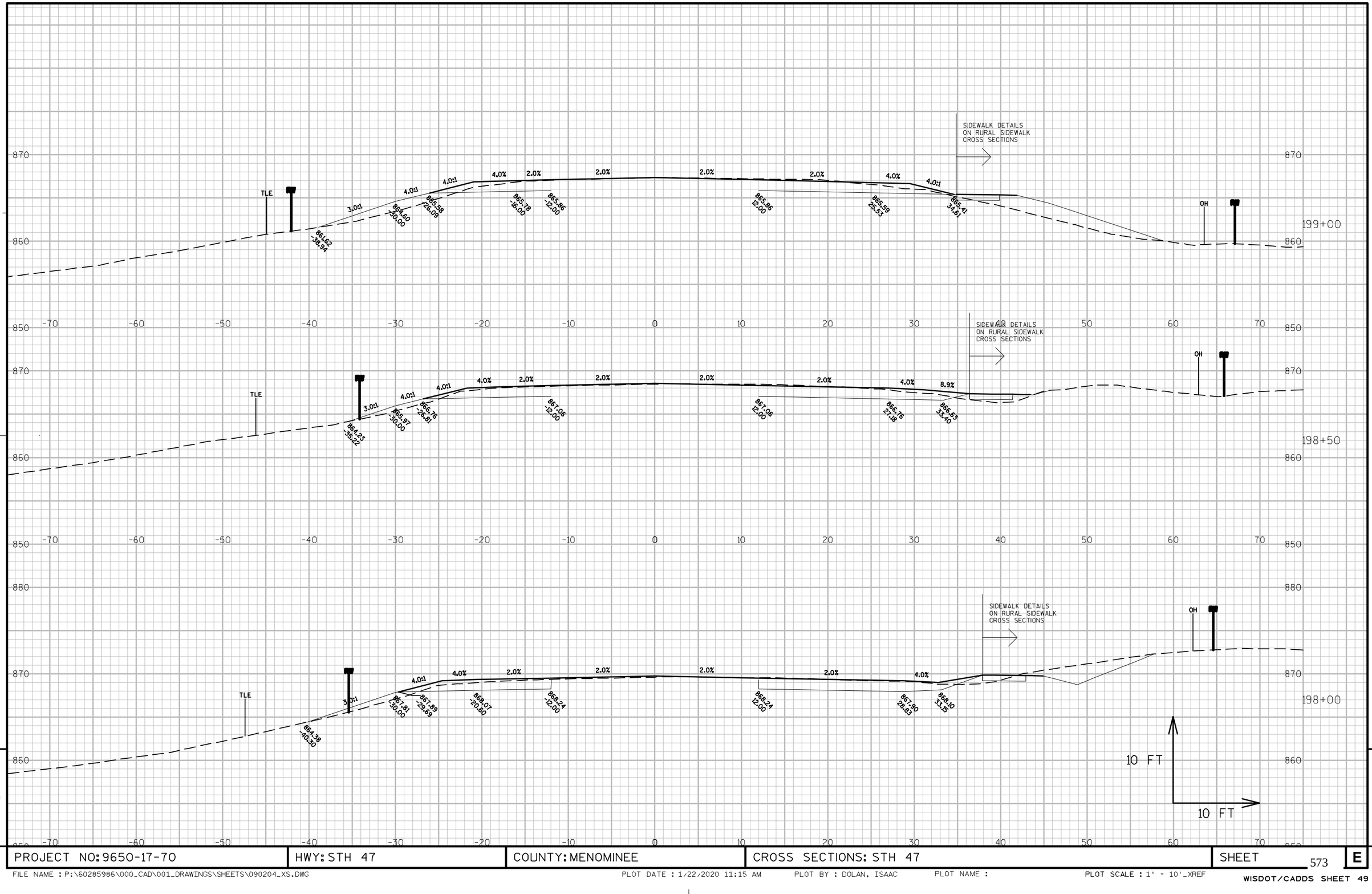
WISDOT/CADDS SHEET 49

STA 197+95.3
END HALF URBAN RECONDITION
BEGIN RESURFACE



STA 196+90, LT
CONSTRUCT URBAN INTERSECTION
MATCH EXISTING
SAWCUT REQUIRED

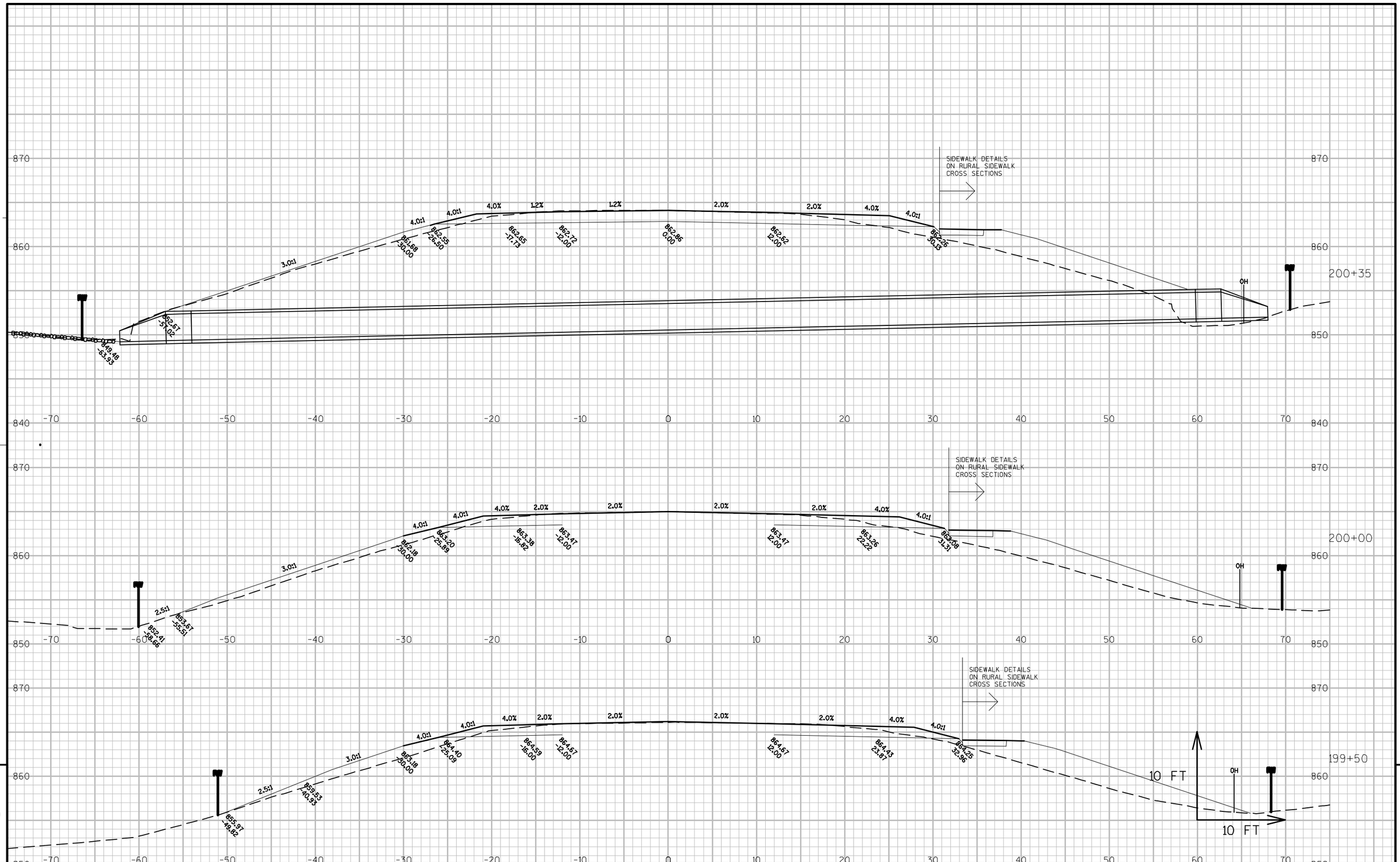
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 572	E



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 573	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090204_XS.DWG PLOT DATE : 1/22/2020 11:15 AM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49

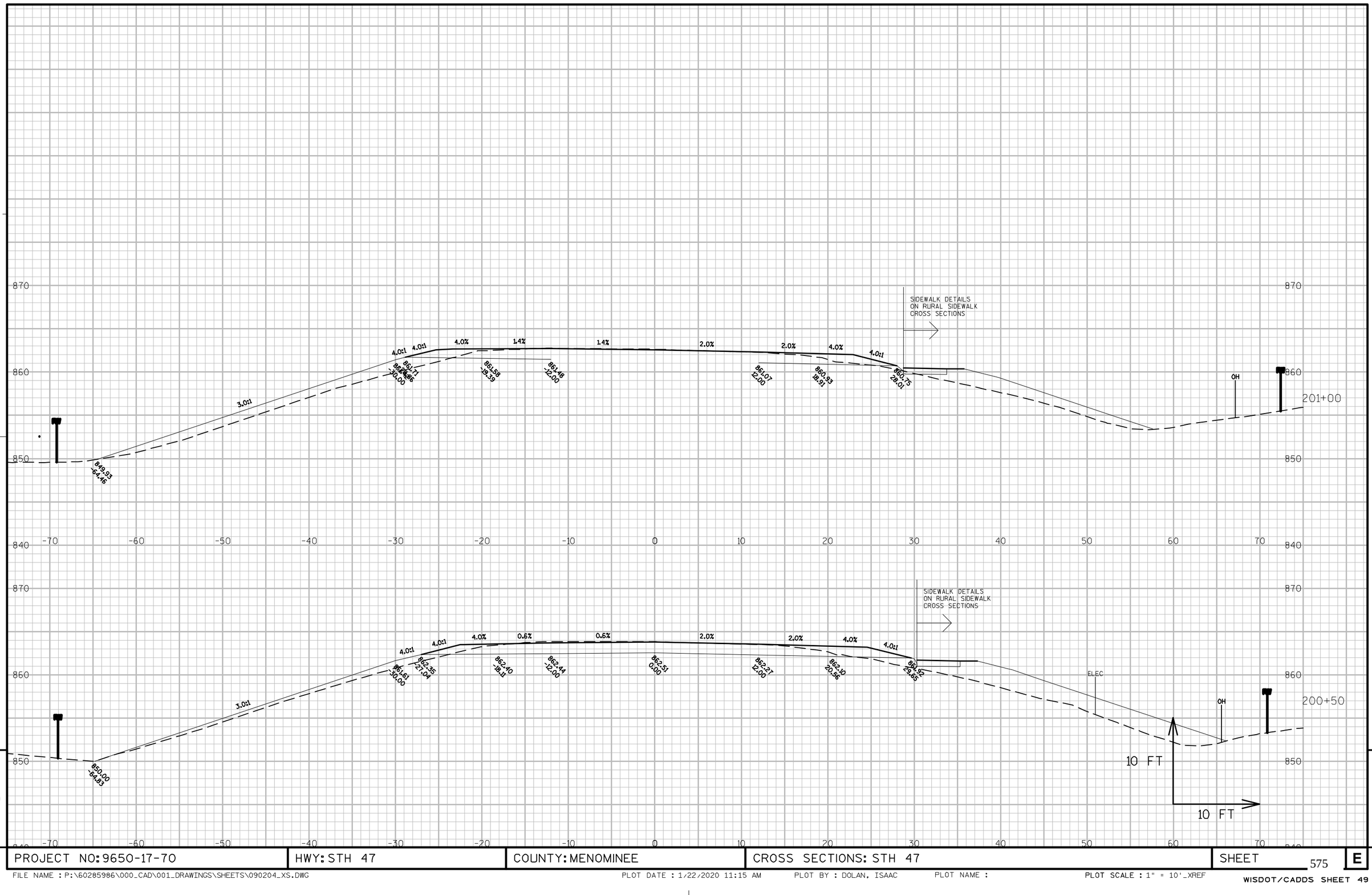


9

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 574	E

9

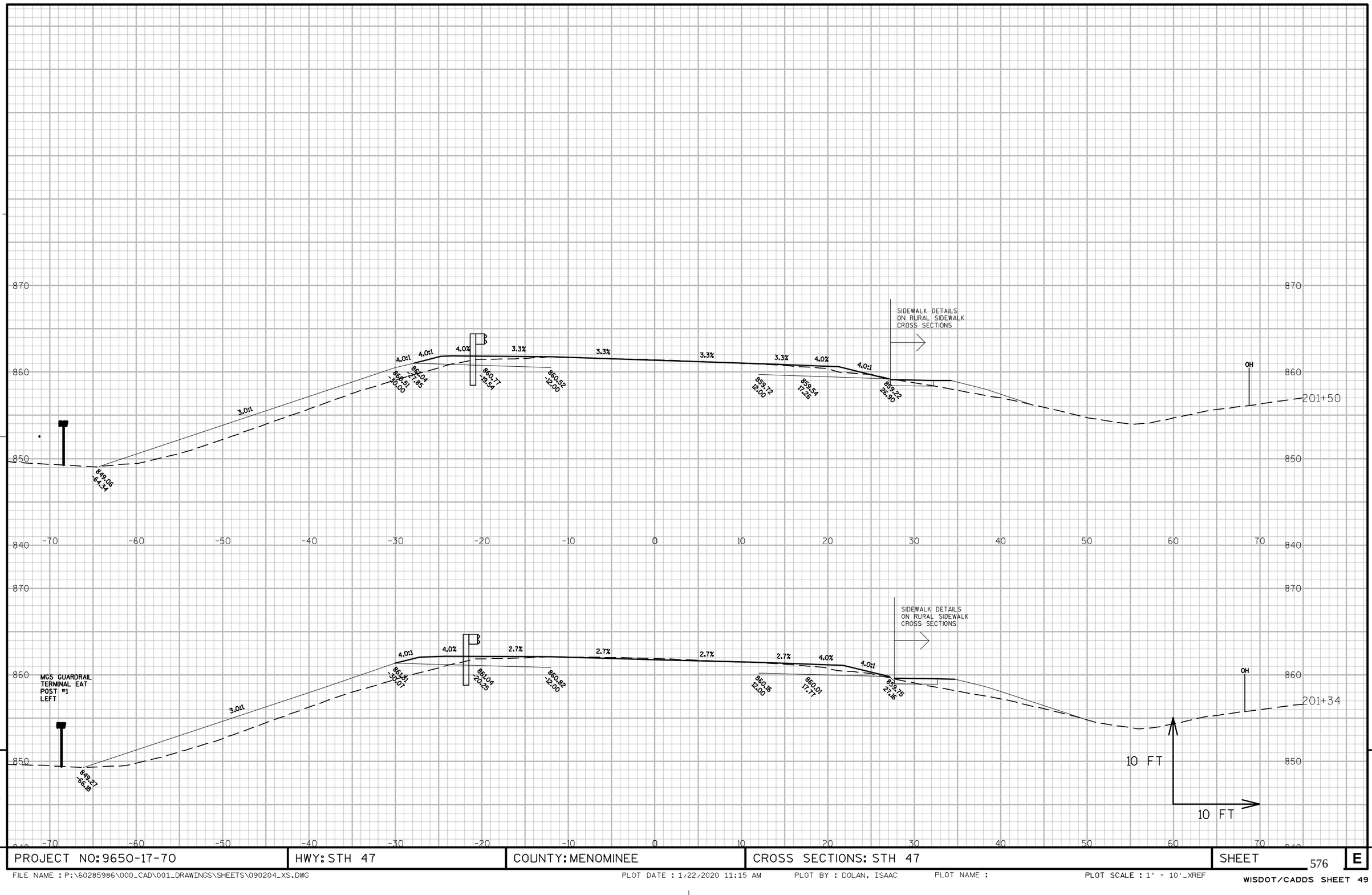
FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090204_XS.DWG PLOT DATE : 1/22/2020 11:15 AM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1" = 10'_XREF
WISDOT/CADDS SHEET 49



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 575	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090204_XS.DWG PLOT DATE : 1/22/2020 11:15 AM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



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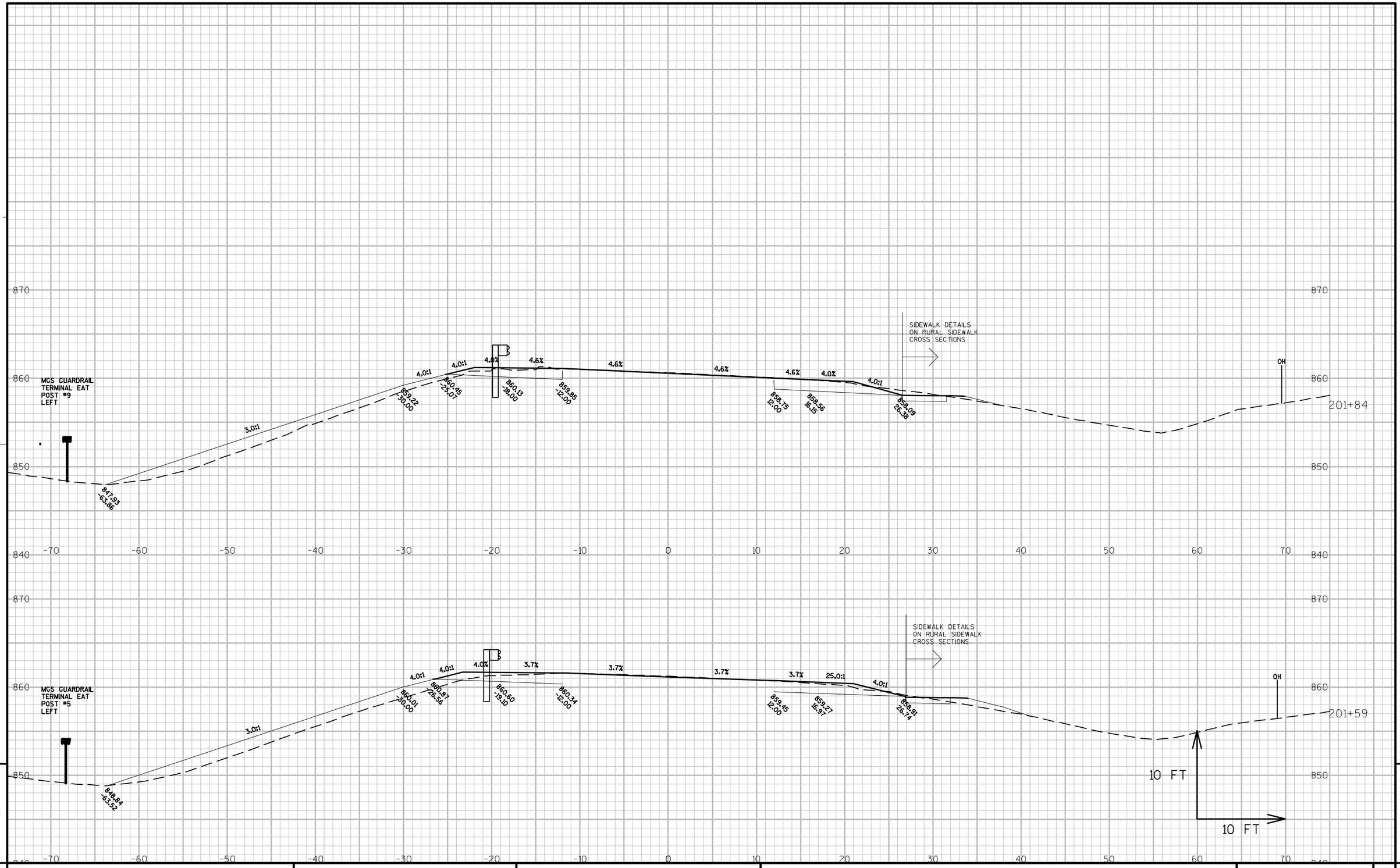
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 576	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090204_XS.DWG PLOT DATE : 1/22/2020 11:15 AM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1" = 10'_XREF

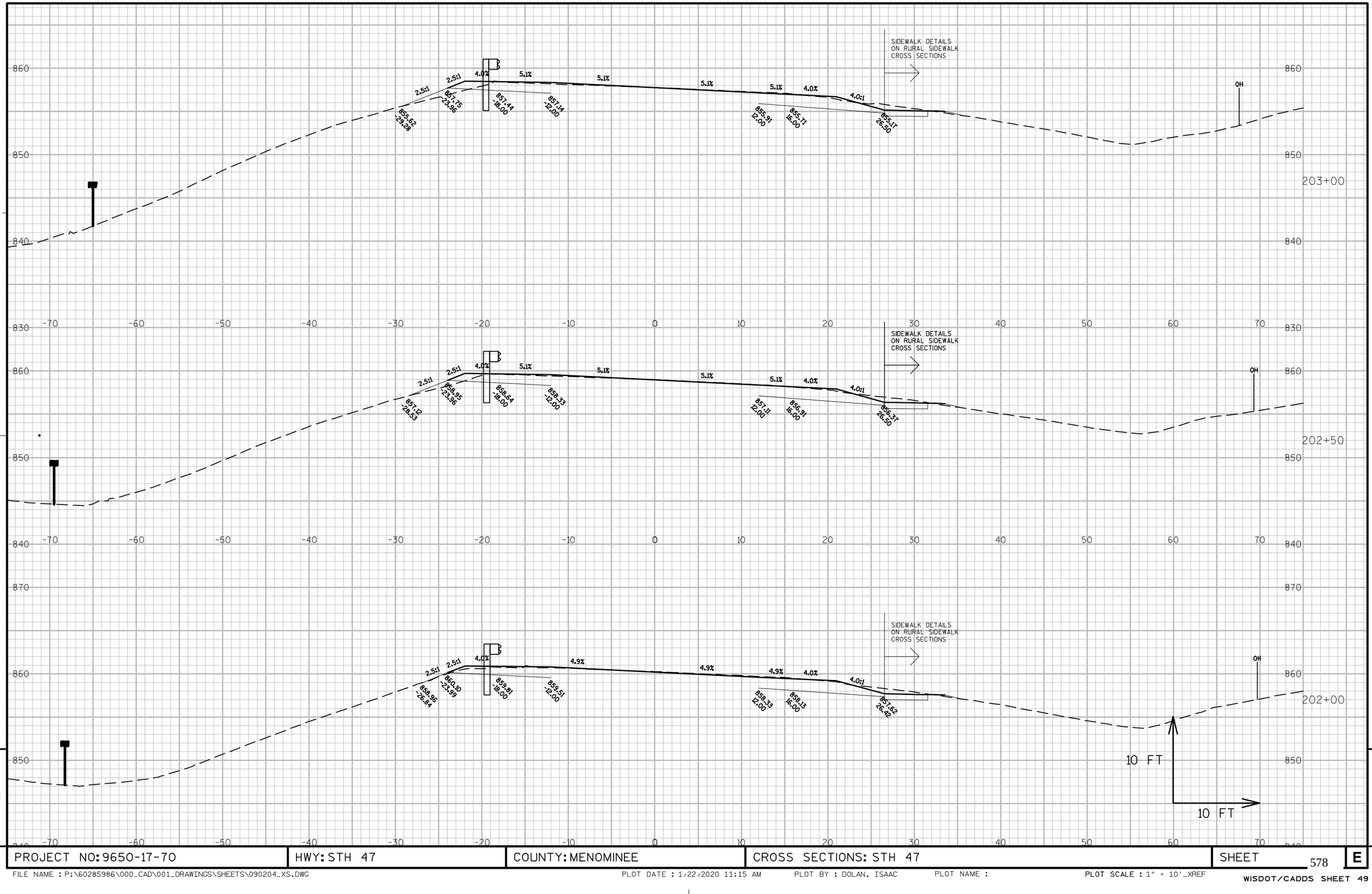
WISDOT/CADDS SHEET 49



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 577	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090204_XS.DWG PLOT DATE : 1/22/2020 11:15 AM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



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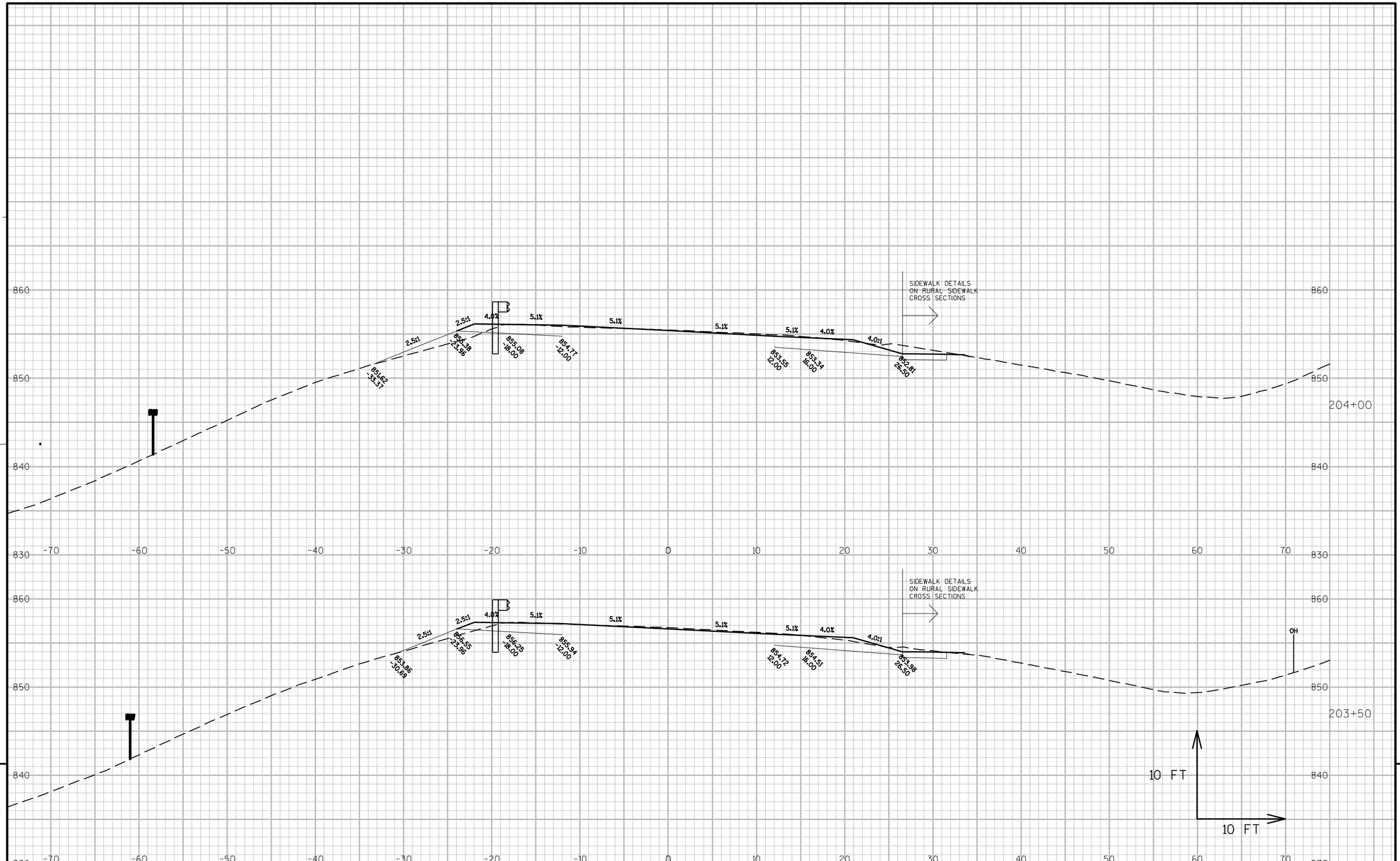
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 578	E

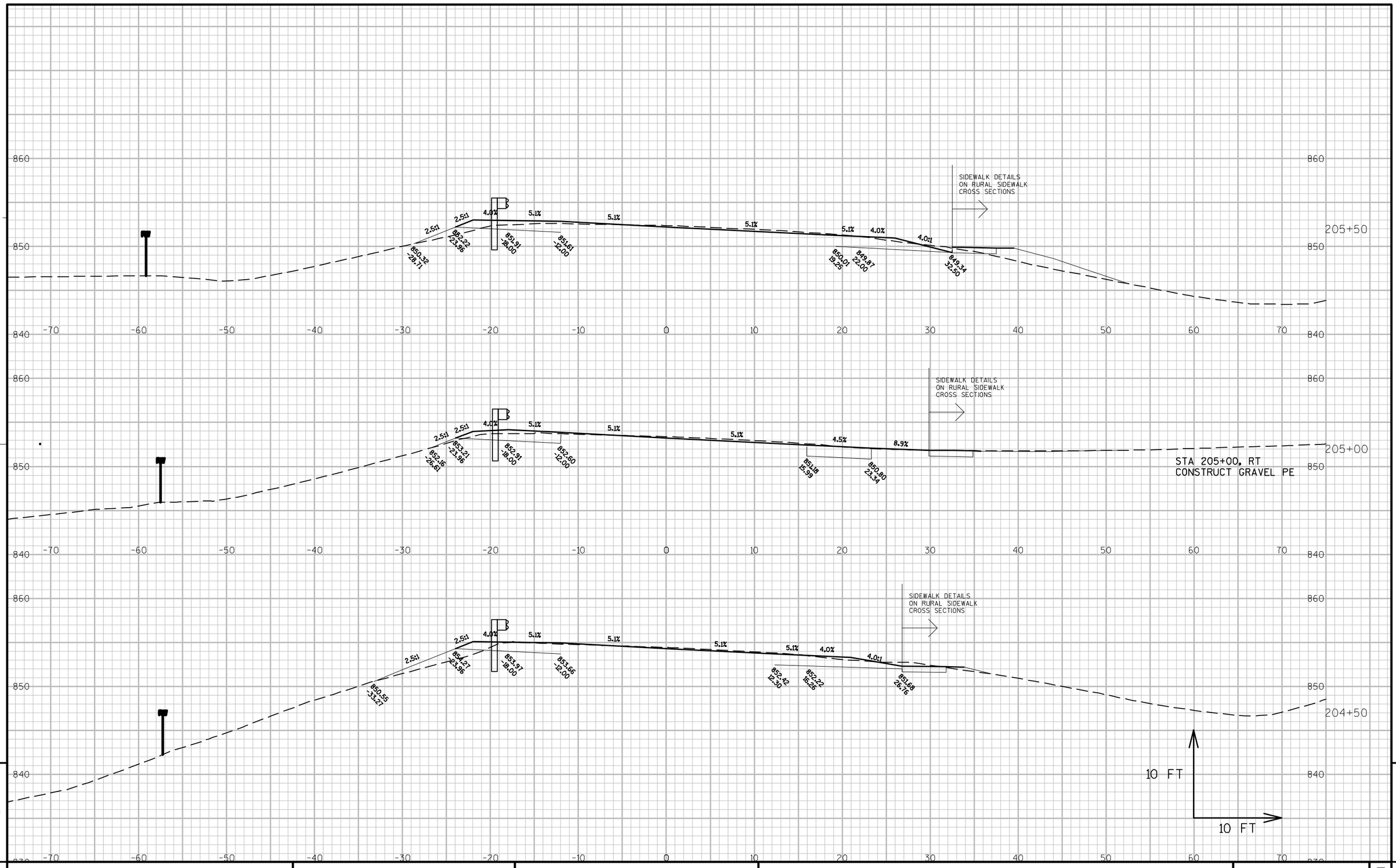
FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090204_XS.DWG PLOT DATE : 1/22/2020 11:15 AM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1" = 10'_XREF



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 579	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090204_XS.DWG PLOT DATE : 1/22/2020 11:15 AM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 580	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090204_XS.DWG PLOT DATE : 1/22/2020 11:16 AM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1" = 10'_XREF

206+03

MGS GUARDRAIL TERMINAL EAT POST #1 LEFT

SIDEWALK DETAILS ON RURAL SIDEWALK CROSS SECTIONS

206+00

MGS GUARDRAIL TERMINAL EAT POST #1 LEFT

SIDEWALK DETAILS ON RURAL SIDEWALK CROSS SECTIONS

205+78

MGS GUARDRAIL TERMINAL EAT POST #5 LEFT

SIDEWALK DETAILS ON RURAL SIDEWALK CROSS SECTIONS

205+54

MGS GUARDRAIL TERMINAL EAT POST #9 LEFT

SIDEWALK DETAILS ON RURAL SIDEWALK CROSS SECTIONS

10 FT

10 FT

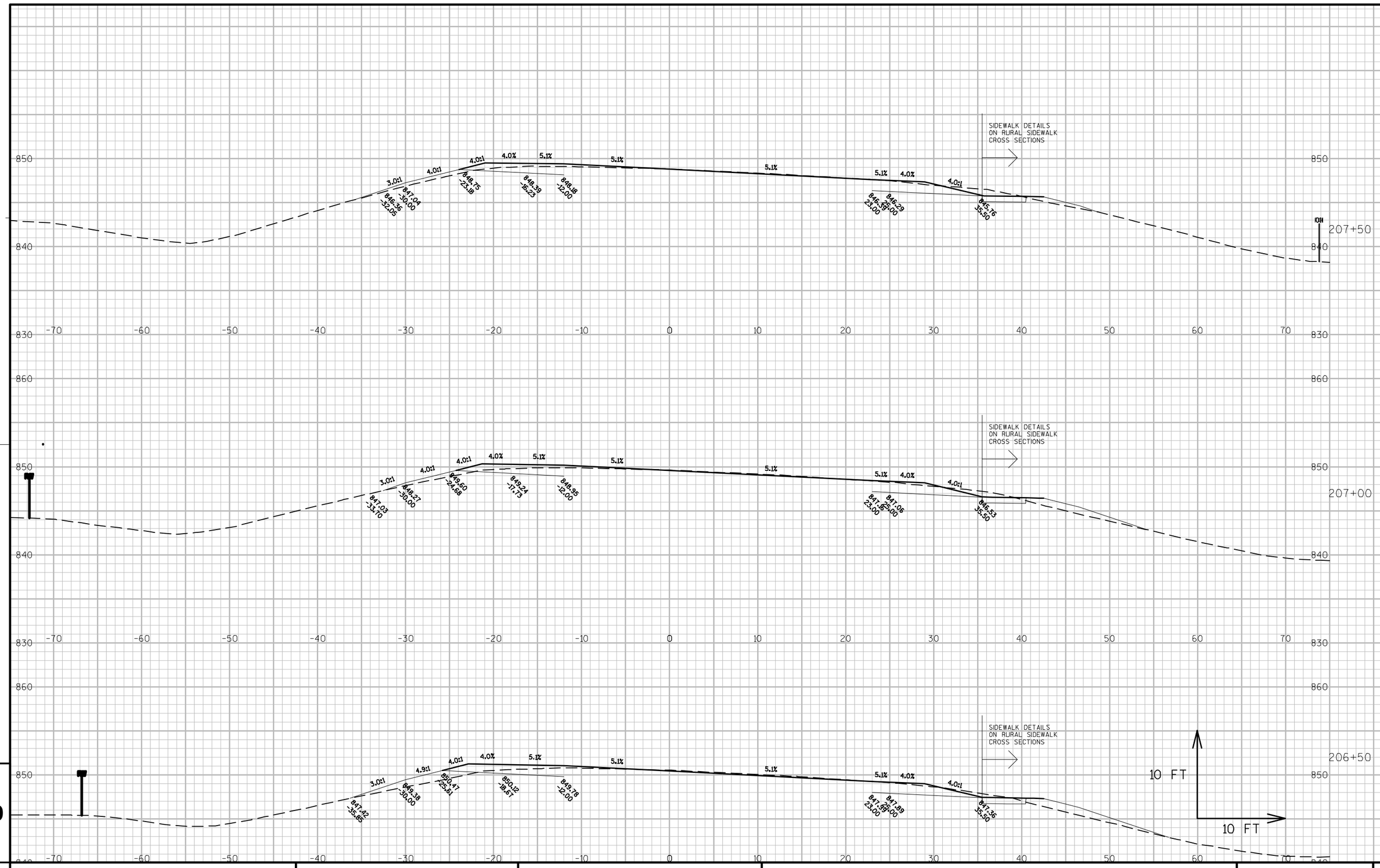
9

9

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 581	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090204_XS.DWG PLOT DATE : 1/22/2020 11:16 AM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 582	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090204_XS.DWG PLOT DATE : 1/22/2020 11:16 AM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49

PLACE RIPRAP DIRECTLY ON EXISTING ESTABLISHED, VEGETATED SLOPE. DO NOT DISTURB SOIL OR PLACE GEOTEXTILE FABRIC DOWN PRIOR TO PLACEMENT OF RIPRAP.

SIDEWALK DETAILS ON RURAL SIDEWALK CROSS SECTIONS

OH

845.36
30.28

209+50

STA 208+86
RESURFACE RURAL INTERSECTION
MATCH EXISTING
SAWCUT REQUIRED

209+00

STA 208+86
RESURFACE RURAL INTERSECTION
MATCH EXISTING
SAWCUT REQUIRED

FO 208+50

STA 208+86
RESURFACE RURAL INTERSECTION
MATCH EXISTING
SAWCUT REQUIRED

SIDEWALK DETAILS ON RURAL SIDEWALK CROSS SECTIONS

4.0:1 4.0% 5.1% 5.1% 5.1% 5.1% 4.0% 4.0:1

848.17
-25.80

847.81
-18.85

847.46
-12.00

845.24
23.00

845.59
34.82

845.05
35.32

FO 208+00

10 FT

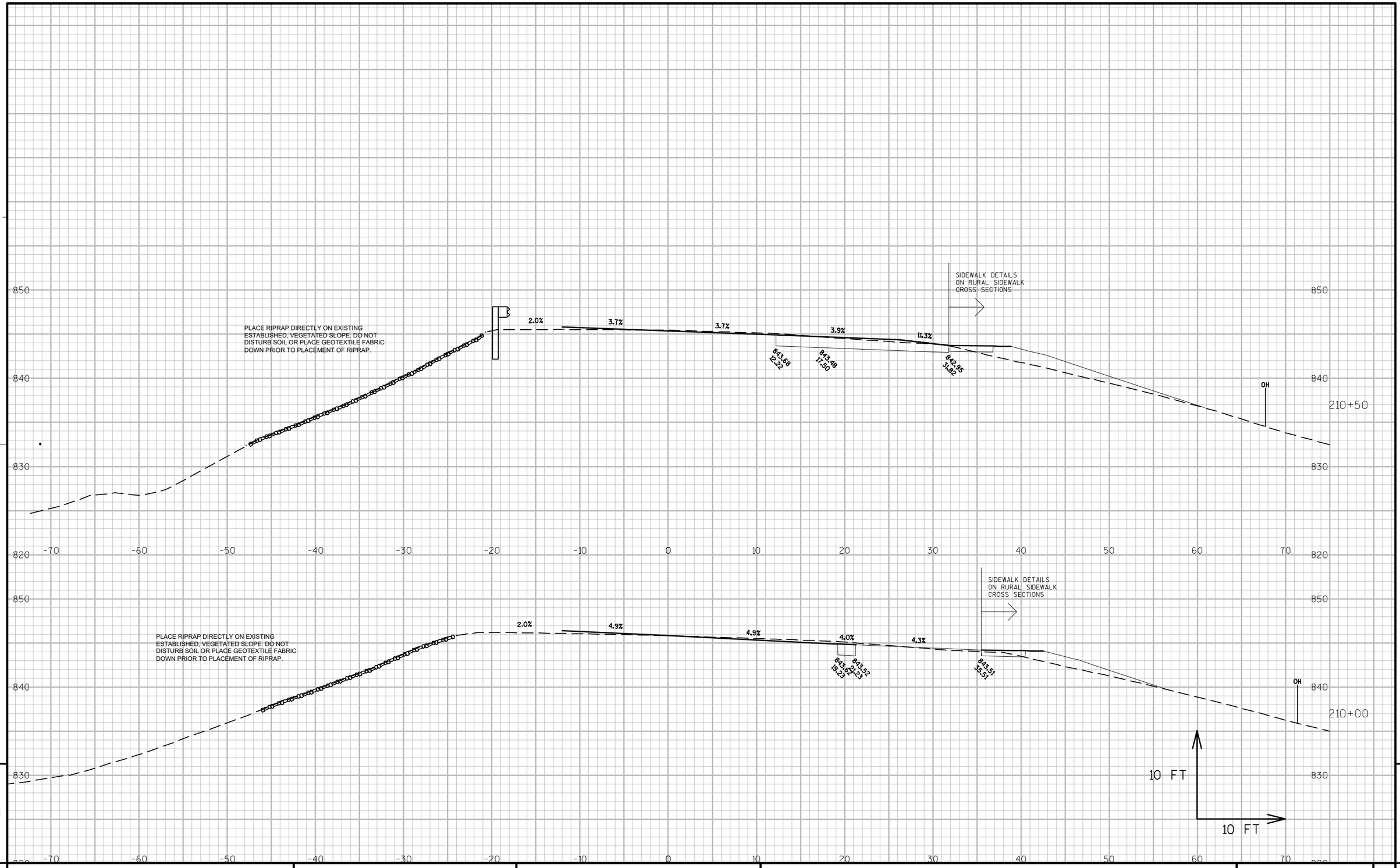
10 FT

9

9

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 583	E

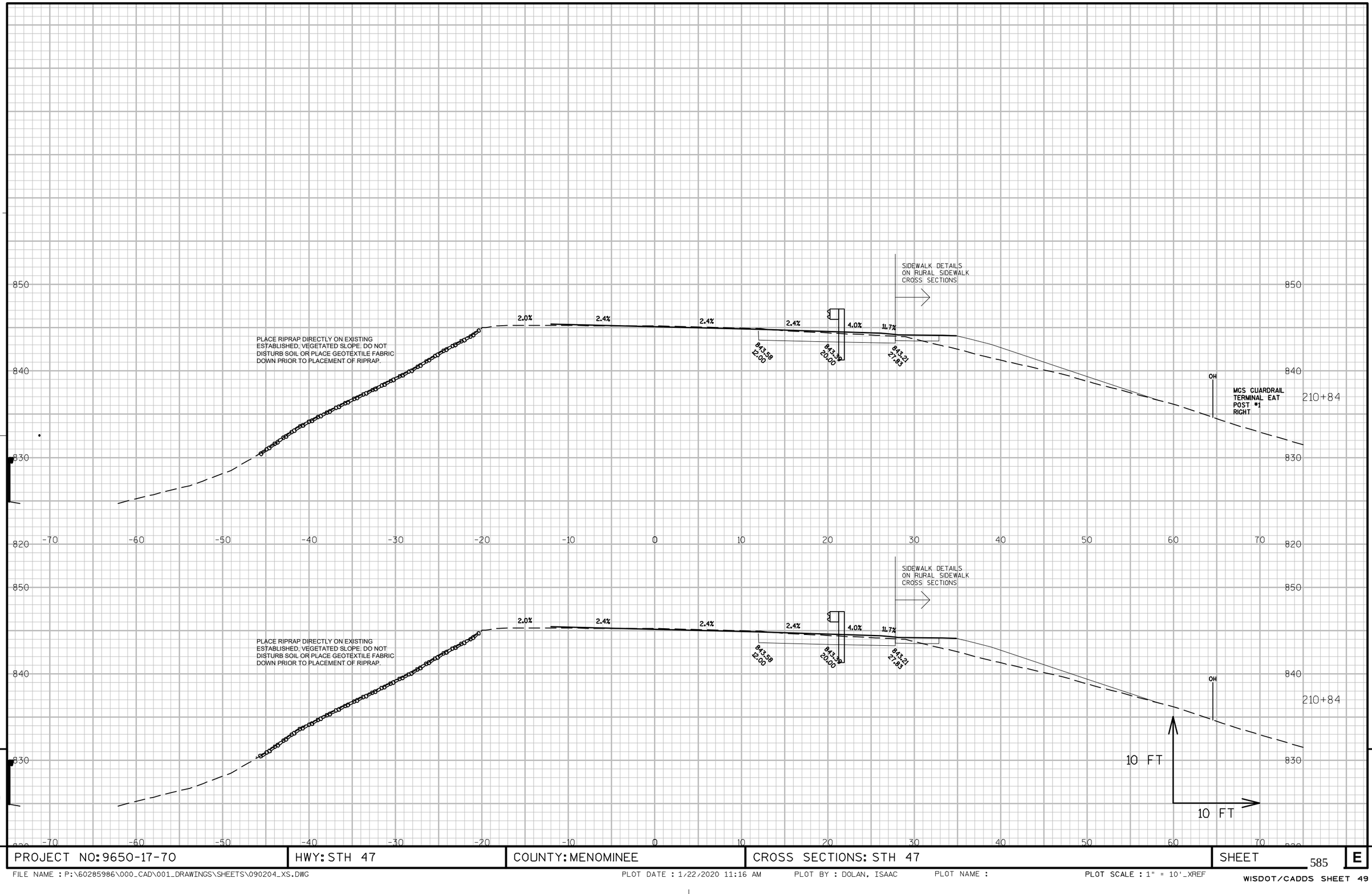
FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090204_XS.DWG PLOT DATE : 1/22/2020 11:16 AM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1" = 10'_XREF



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 584	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090204_XS.DWG PLOT DATE : 1/22/2020 11:16 AM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1" = 10'_XREF

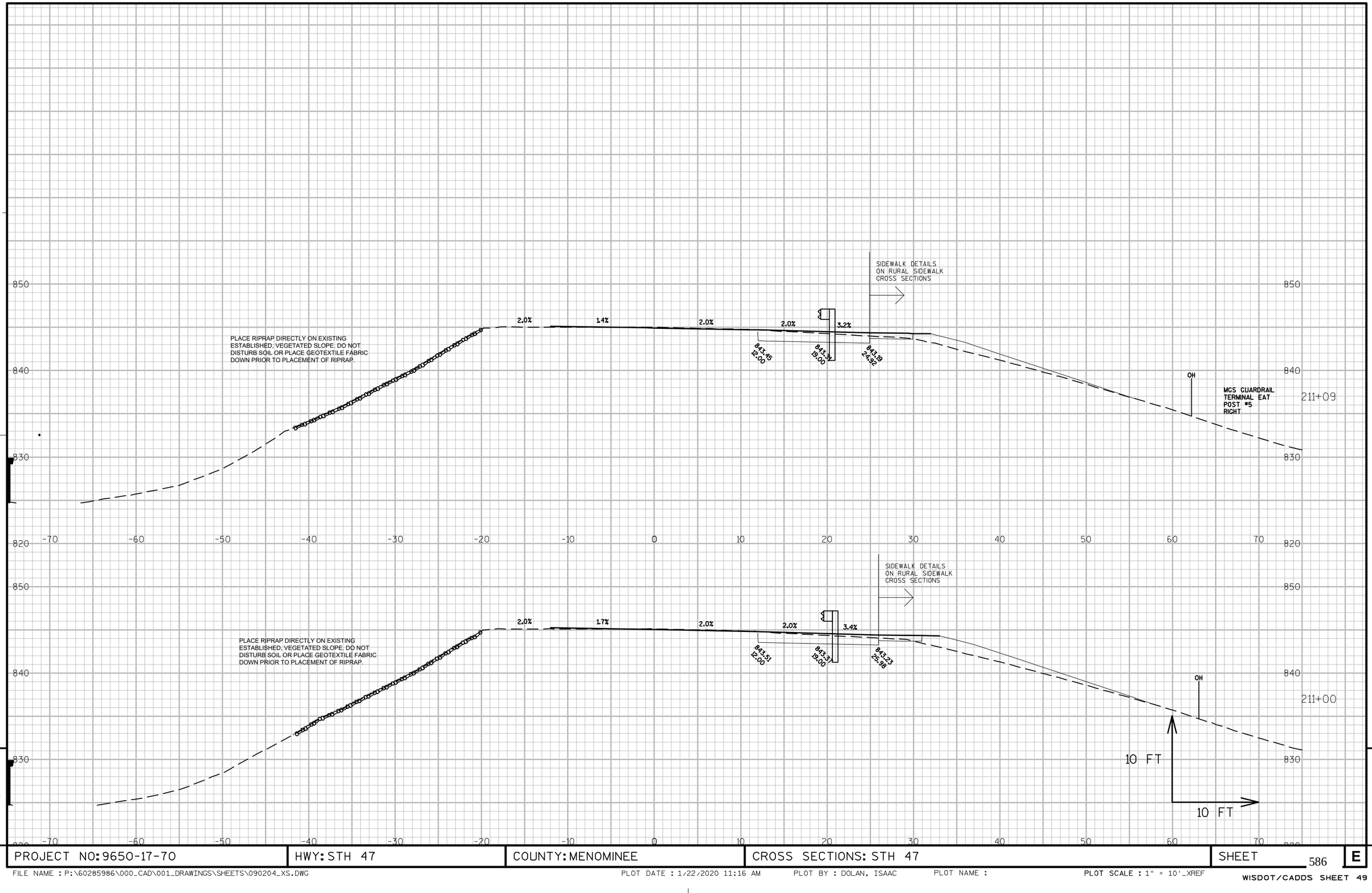
WISDOT/CADDS SHEET 49



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 585	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090204_XS.DWG PLOT DATE : 1/22/2020 11:16 AM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



9

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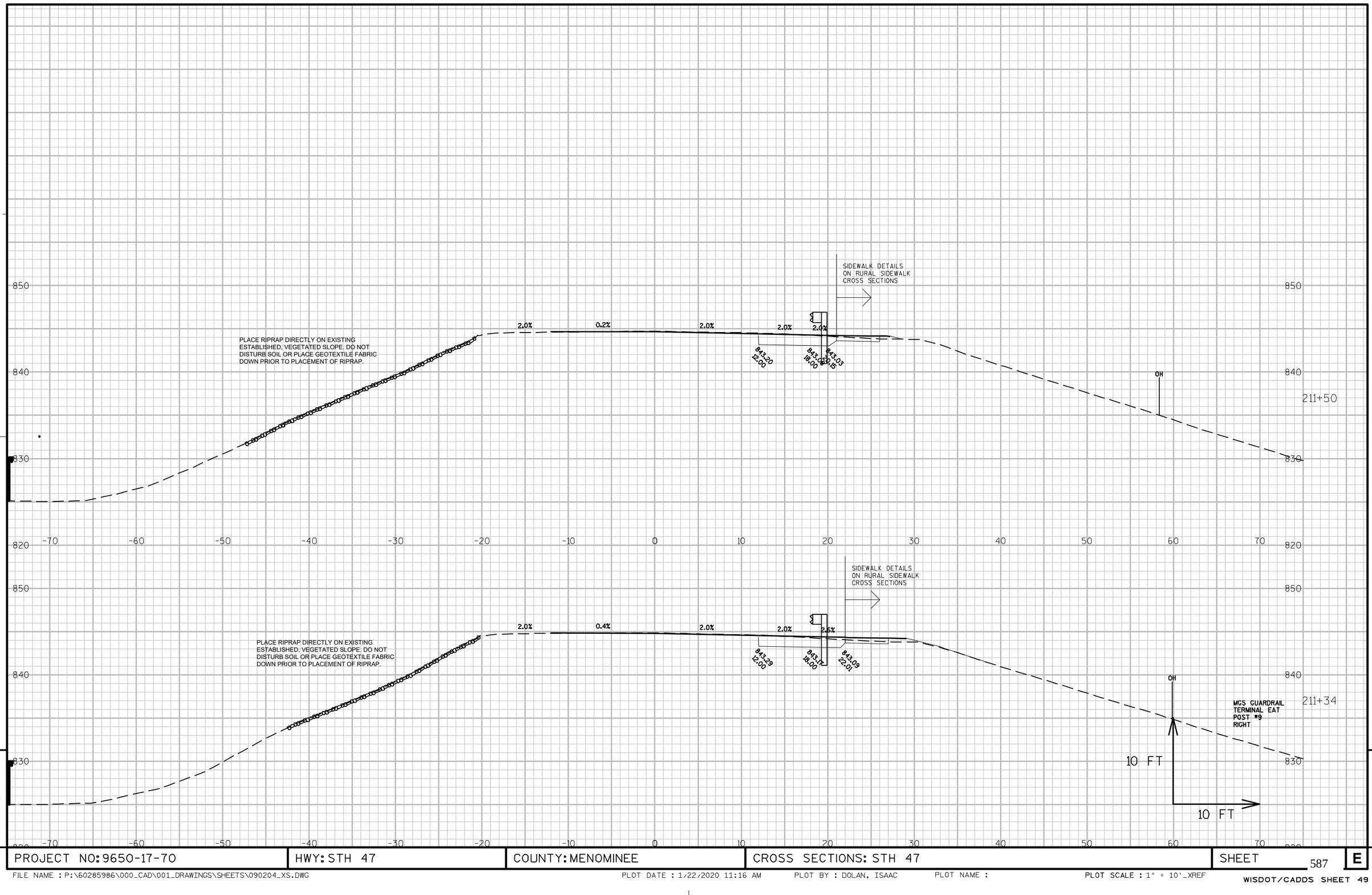
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 586	E



9

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PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 587	E

214+00

SEE PROJECT 9650-17-61
STRUCTURE PLANS FOR
MORE INFORMATION

PLACE RIPRAP DIRECTLY ON EXISTING
ESTABLISHED, VEGETATED SLOPE; DO NOT
DISTURB SOIL OR PLACE GEOTEXTILE FABRIC
DOWN PRIOR TO PLACEMENT OF RIPRAP.

END CONSTRUCTION 9650-17-70
BEGIN PROJECT 9650-17-61
STA 212+12.34

OH

212+12

PLACE RIPRAP DIRECTLY ON EXISTING
ESTABLISHED, VEGETATED SLOPE; DO NOT
DISTURB SOIL OR PLACE GEOTEXTILE FABRIC
DOWN PRIOR TO PLACEMENT OF RIPRAP.

SIDEWALK DETAILS
ON RURAL SIDEWALK
CROSS SECTIONS

2.0% 2.0% 2.0% 2.0% 1.4%

842.91
12.00

842.79
18.00

842.74

842.15

OH

212+00

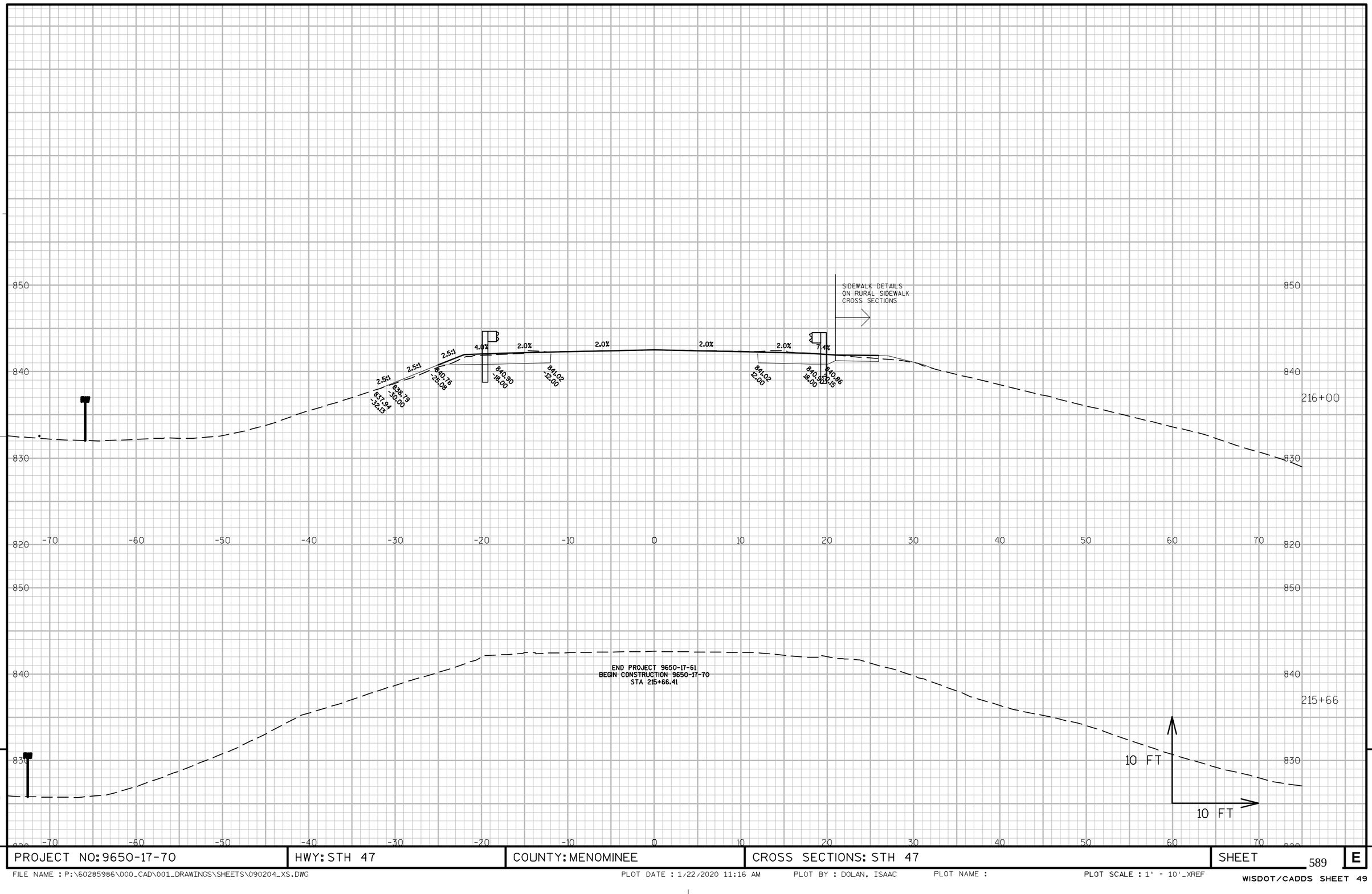
10 FT

10 FT

9 9

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 588	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090204_XS.DWG PLOT DATE : 1/22/2020 11:16 AM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1" = 10'_XREF



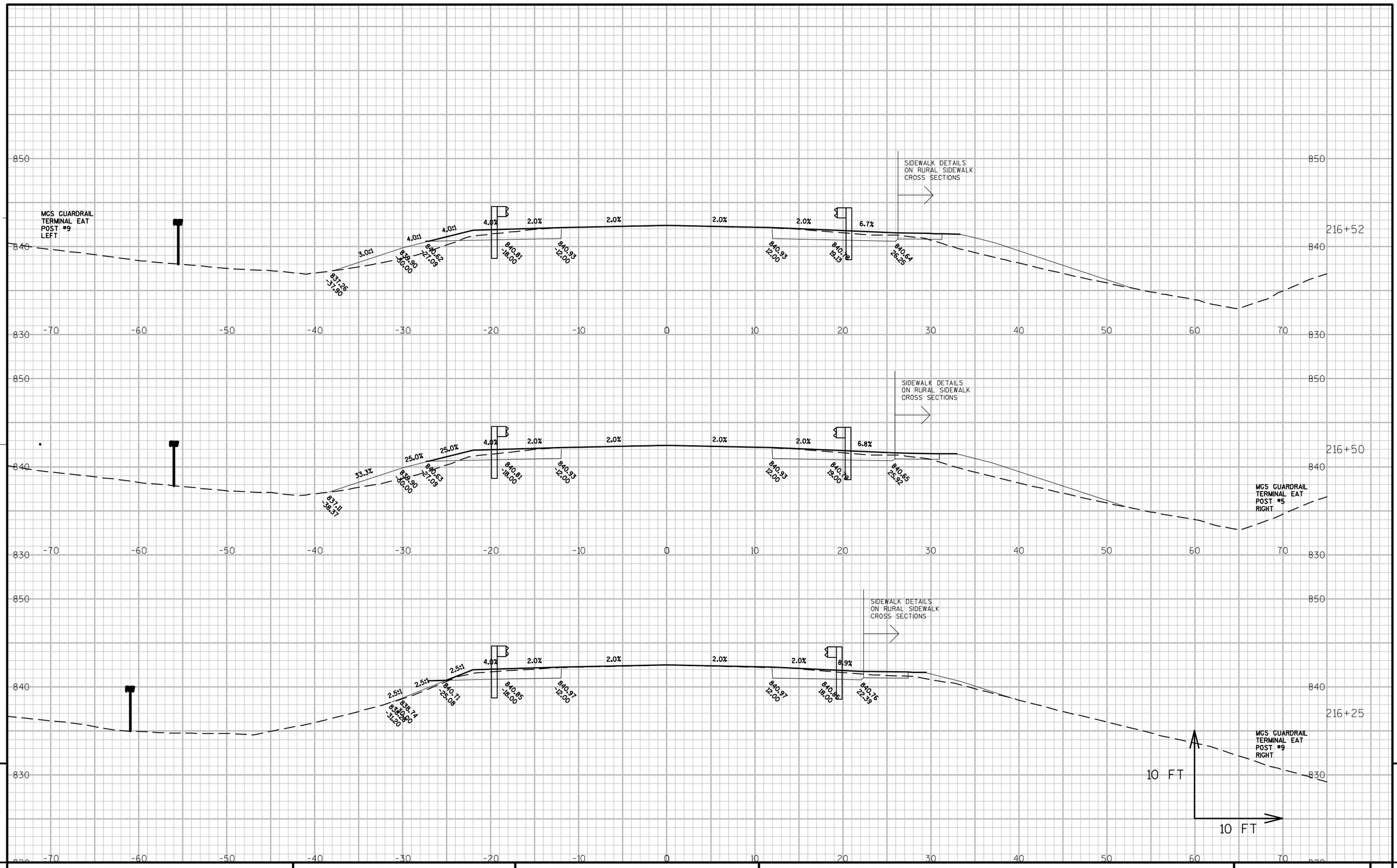
9

9

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 589	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090204_XS.DWG PLOT DATE : 1/22/2020 11:16 AM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



9

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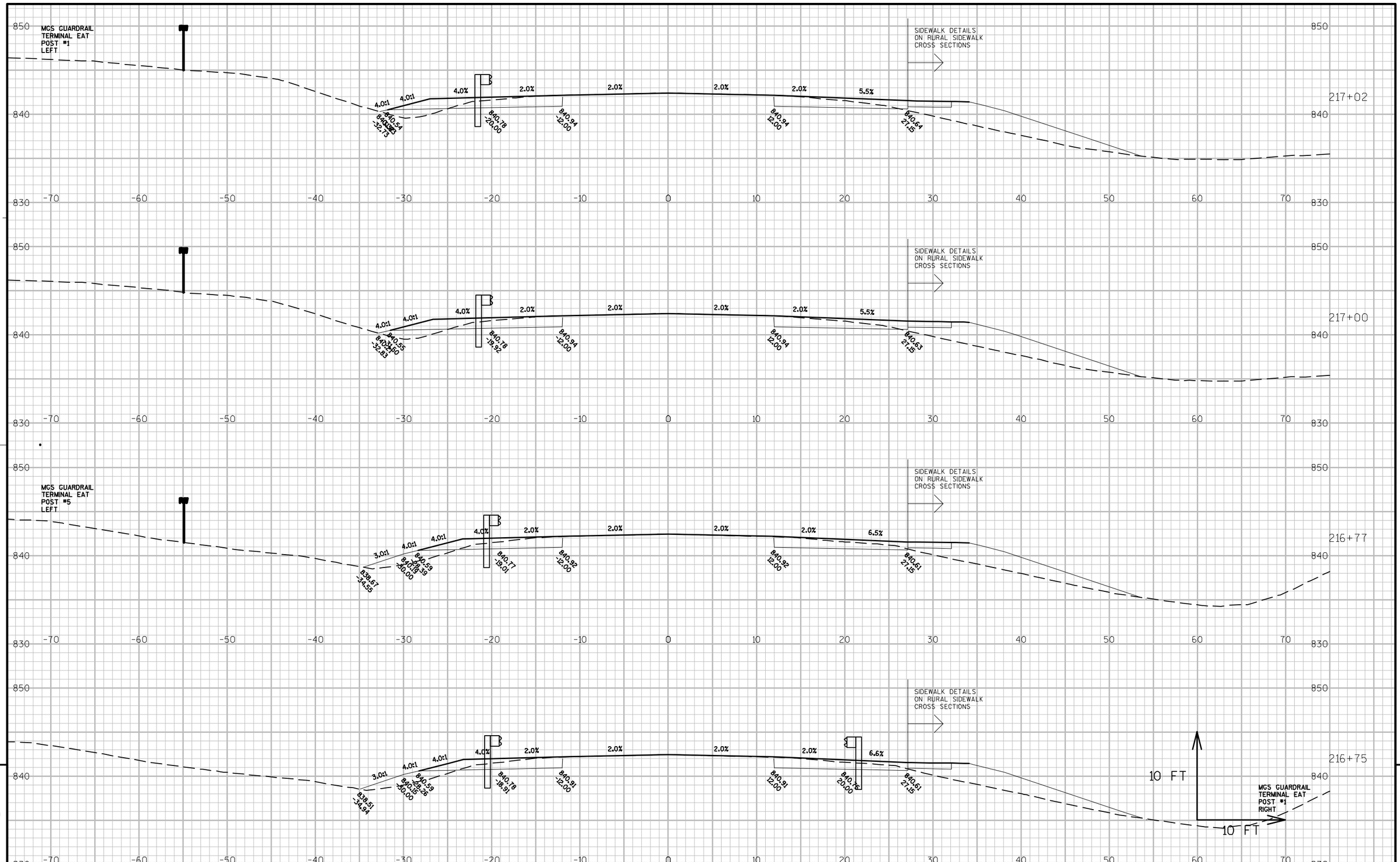
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 590	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090204_XS.DWG PLOT DATE : 1/22/2020 11:16 AM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1" = 10'_XREF

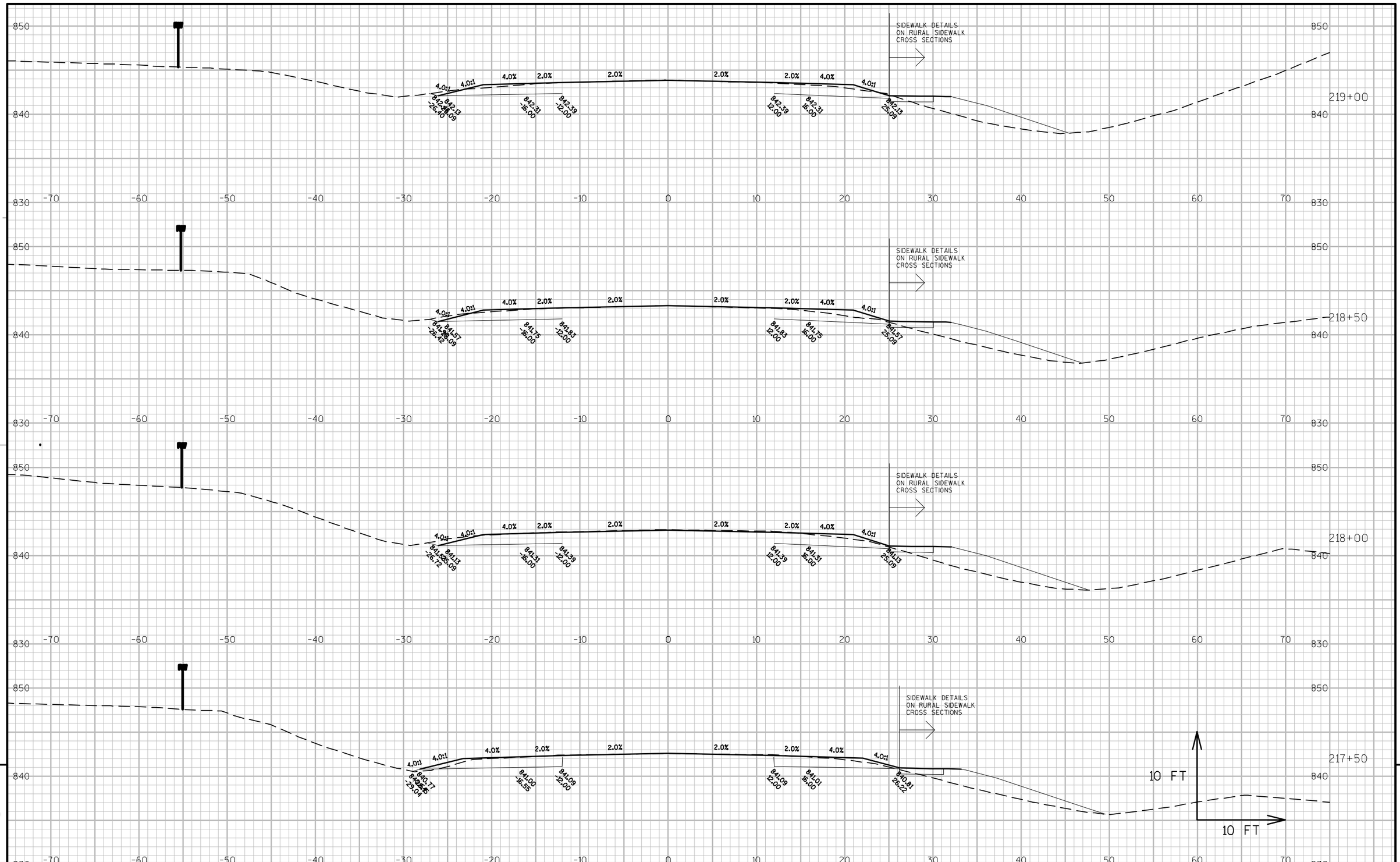
WISDOT/CADDS SHEET 49



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 591	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090204_XS.DWG PLOT DATE : 1/22/2020 11:16 AM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 592 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090204_XS.DWG PLOT DATE : 1/22/2020 11:16 AM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49

END PROJECT 9650-17-70
STA 221+50.00
MATCH EXISTING - SAWCUT REQUIRED

STA 220+36
RESURFACE RURAL INTERSECTION
MATCH EXISTING
SAWCUT REQUIRED

SIDEWALK DETAILS
ON RURAL SIDEWALK
CROSS SECTIONS

SIDEWALK DETAILS
ON RURAL SIDEWALK
CROSS SECTIONS

850
840
-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

220+00

219+50

842.63
-37.45
4.1%
4.0:1
842.73
-27.55
10.0%
842.87
-20.49
2.0%
843.04
-12.00
2.0%
2.0%
2.0%
843.04
12.00
842.96
16.00
2.0%
2.0%
5.0:1
842.78
25.09

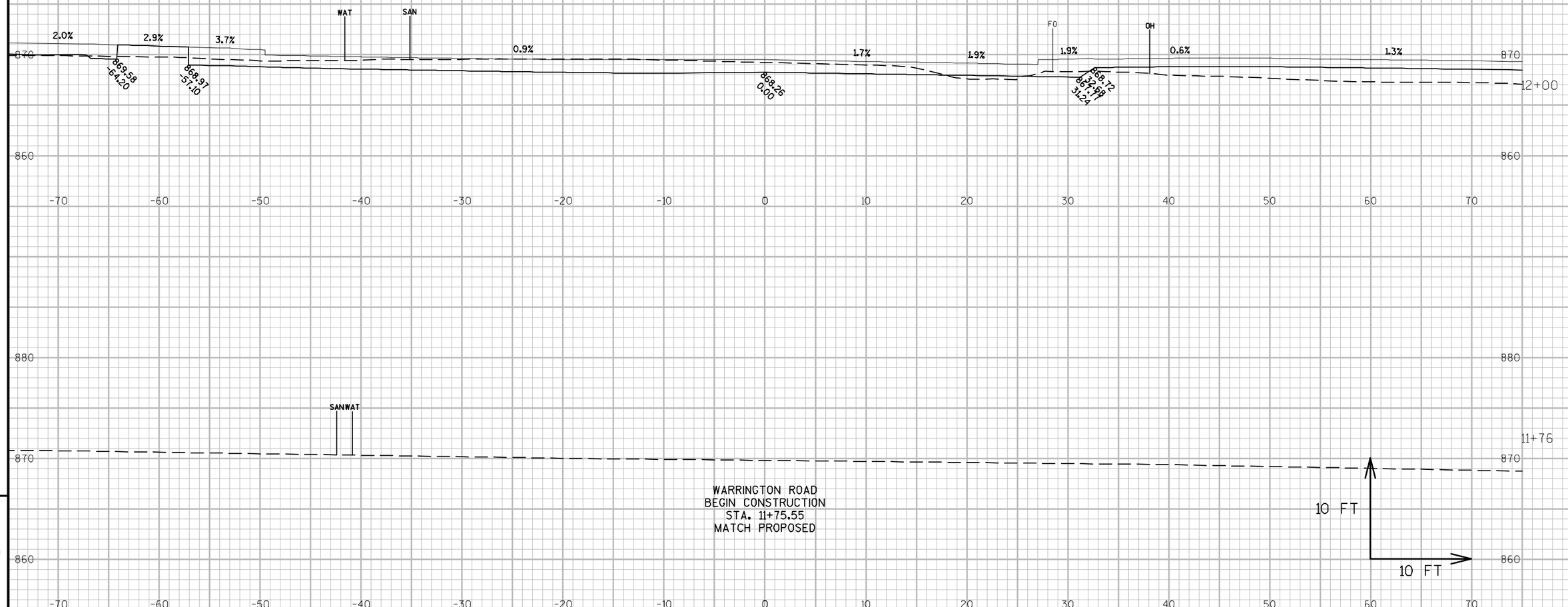
10 FT
10 FT

9

9

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47	SHEET 593	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090204_XS.DWG PLOT DATE : 1/22/2020 11:16 AM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1" = 10'_XREF

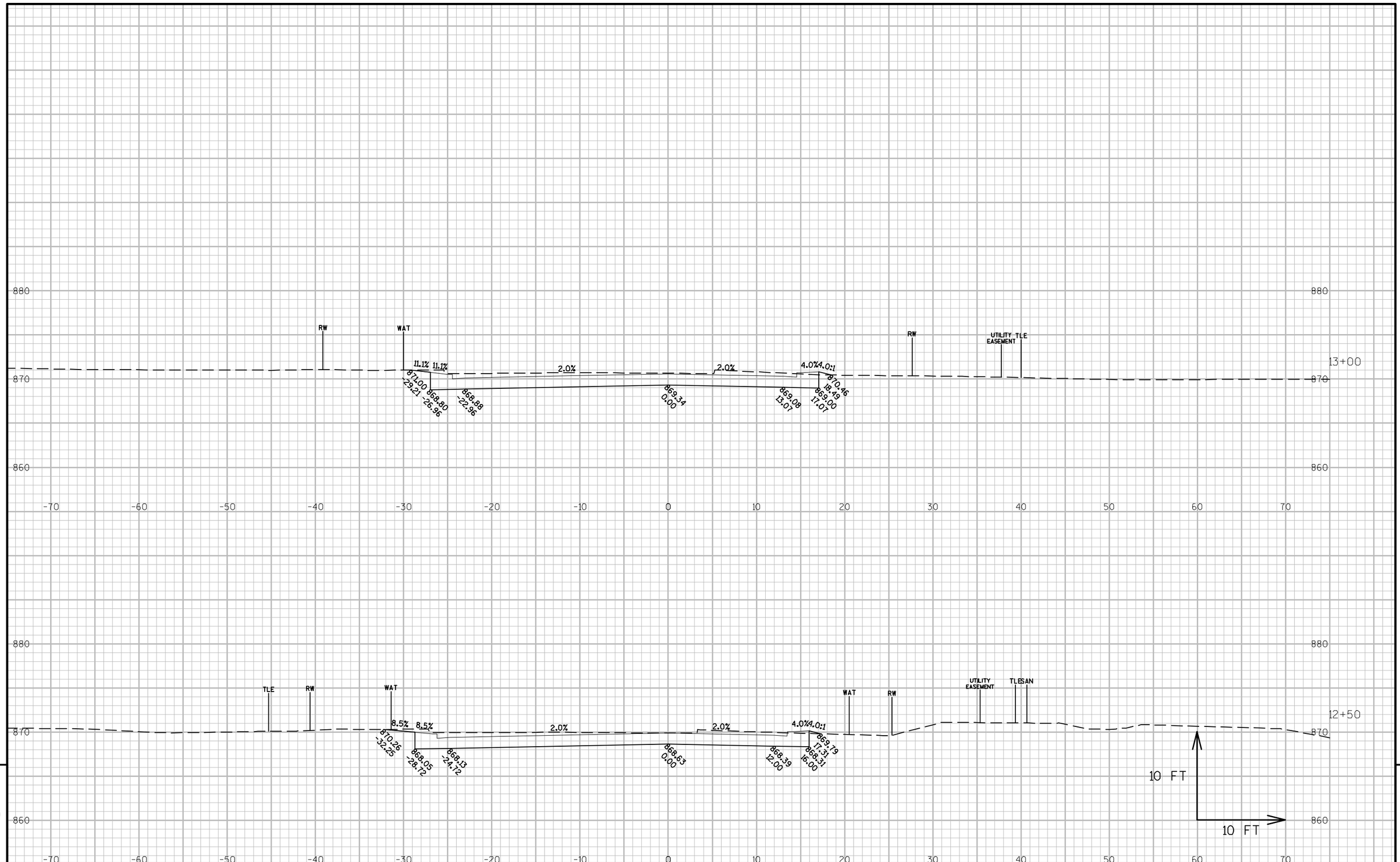


PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: WARRINGTON ROAD	SHEET 594 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090205_XS.DWG
LAYOUT NAME - 090205_XS-(01)

PLOT DATE : 1/13/2020 2:56 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: WARRINGTON ROAD	SHEET 595 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090205_XS.DWG
LAYOUT NAME - 090205_XS-(02)

PLOT DATE : 1/13/2020 2:56 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

WARRINGTON ROAD
END CONSTRUCTION
STA. 11+75.55
MATCH EXISTING - SAWCUT REQUIRED

14+38

14+00

13+50

RW
WAT
UTILITY EASEMENT

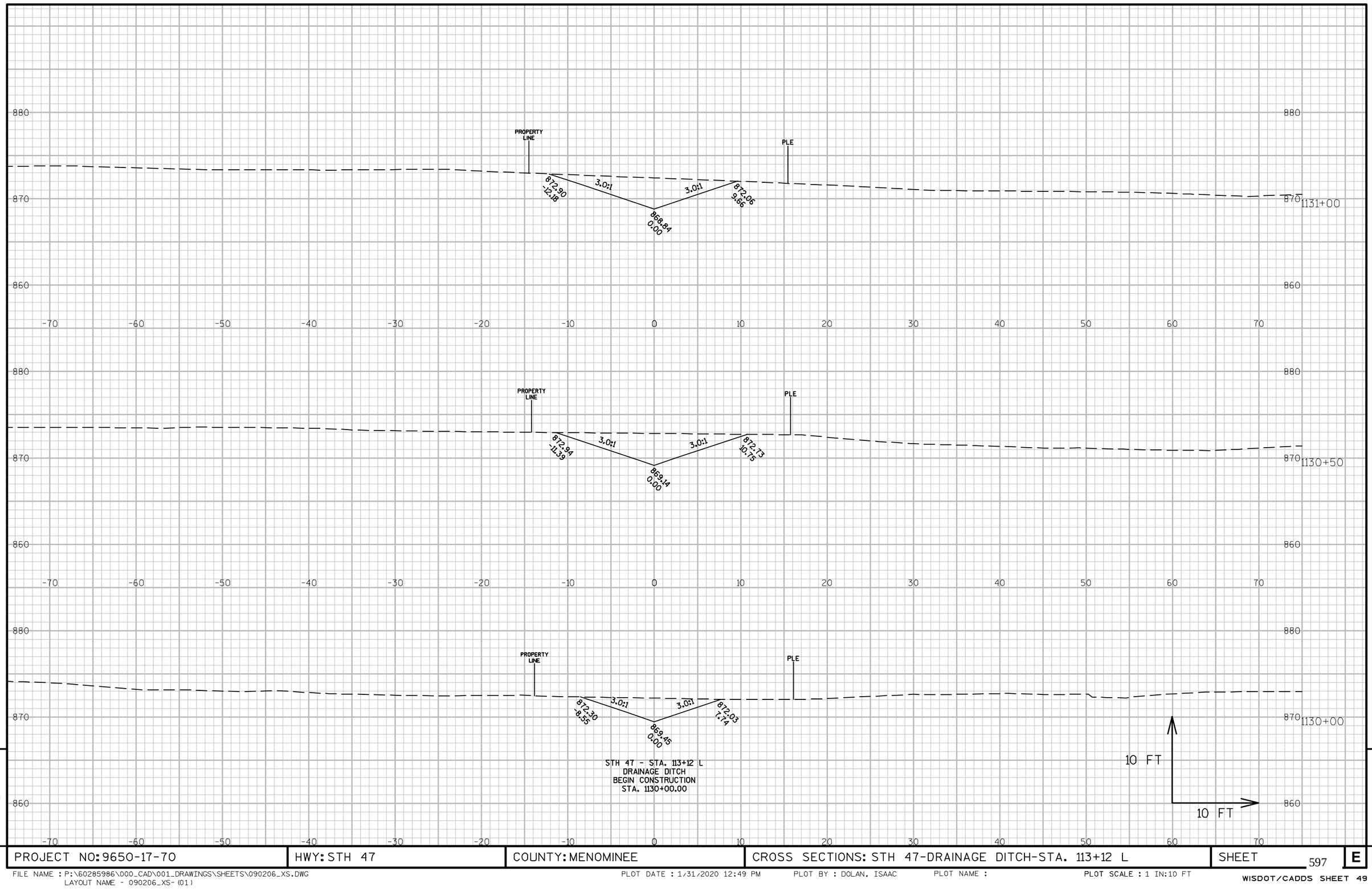
6.5%
6.5%
2.0%
2.0%
4.0%
4.0:1
7.7%
7.7%

870.33 -16.68
870.41 -12.68
870.66 0.00
870.35 15.41
870.27 19.41
871.68 -22.03
869.63 -18.96
869.71 -14.96
870.01 0.00
869.67 17.19
869.59 21.19
871.13 22.29

10 FT
10 FT

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: WARRINGTON ROAD	SHEET 596	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090205_XS.DWG
LAYOUT NAME - 090205_XS-(03)
PLOT DATE : 1/13/2020 2:56 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



9

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PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47-DRAINAGE DITCH-STA. 113+12 L	SHEET 597	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090206_XS.DWG
LAYOUT NAME - 090206_XS-(01)

PLOT DATE : 1/31/2020 12:49 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

STH 47 - STA. 113+12 L
DRAINAGE DITCH
END CONSTRUCTION
STA. 1132+37.13

PROPERTY LINE

PLE

1132+37

1132+00

1131+50

870.61
-1.16

3.0:1

3.0:1

869.60
4.12

868.23
0.00

872.92
-13.15

3.0:1

3.0:1

871.35
8.44

868.53
0.00

10 FT

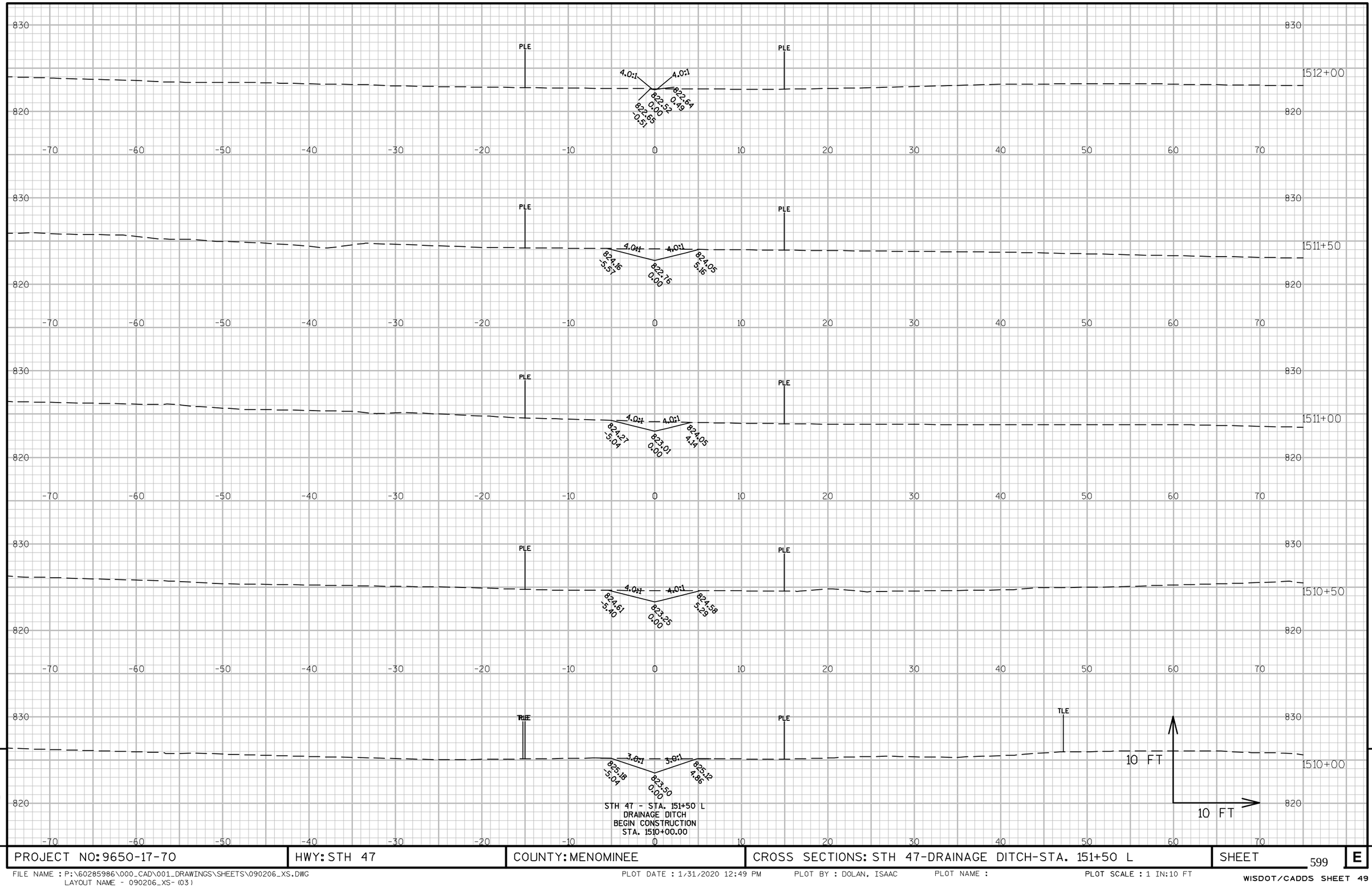
10 FT

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47-DRAINAGE DITCH-STA. 113+12 L	SHEET 598	E

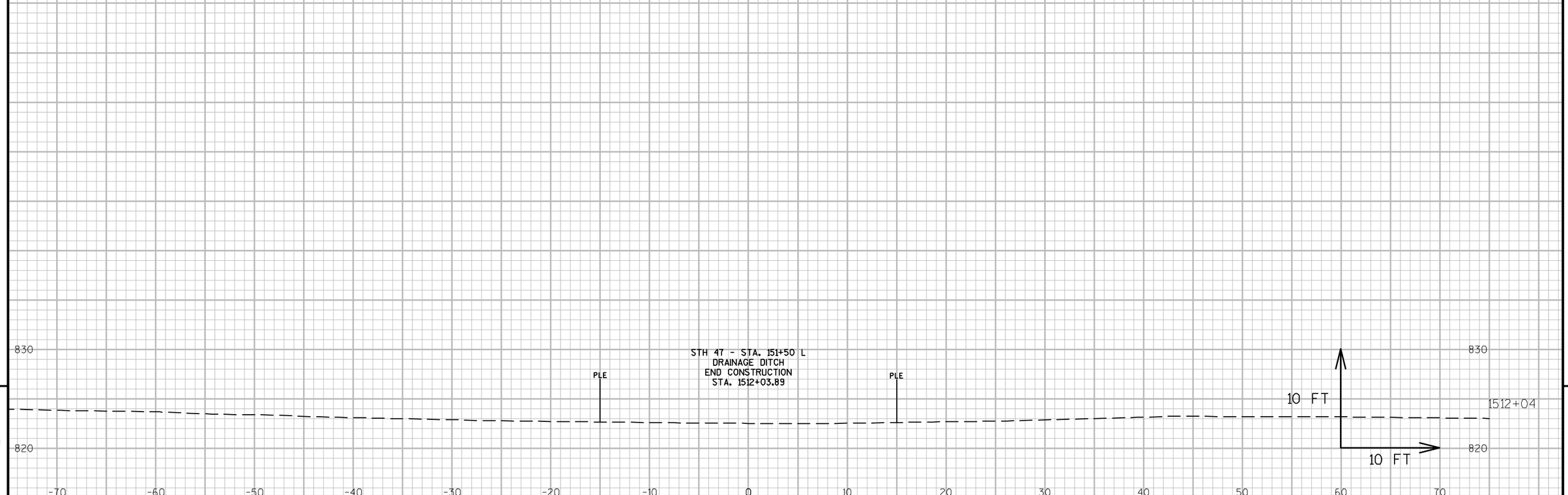
FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090206_XS.DWG
LAYOUT NAME - 090206_XS-(02)

PLOT DATE : 1/31/2020 12:49 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



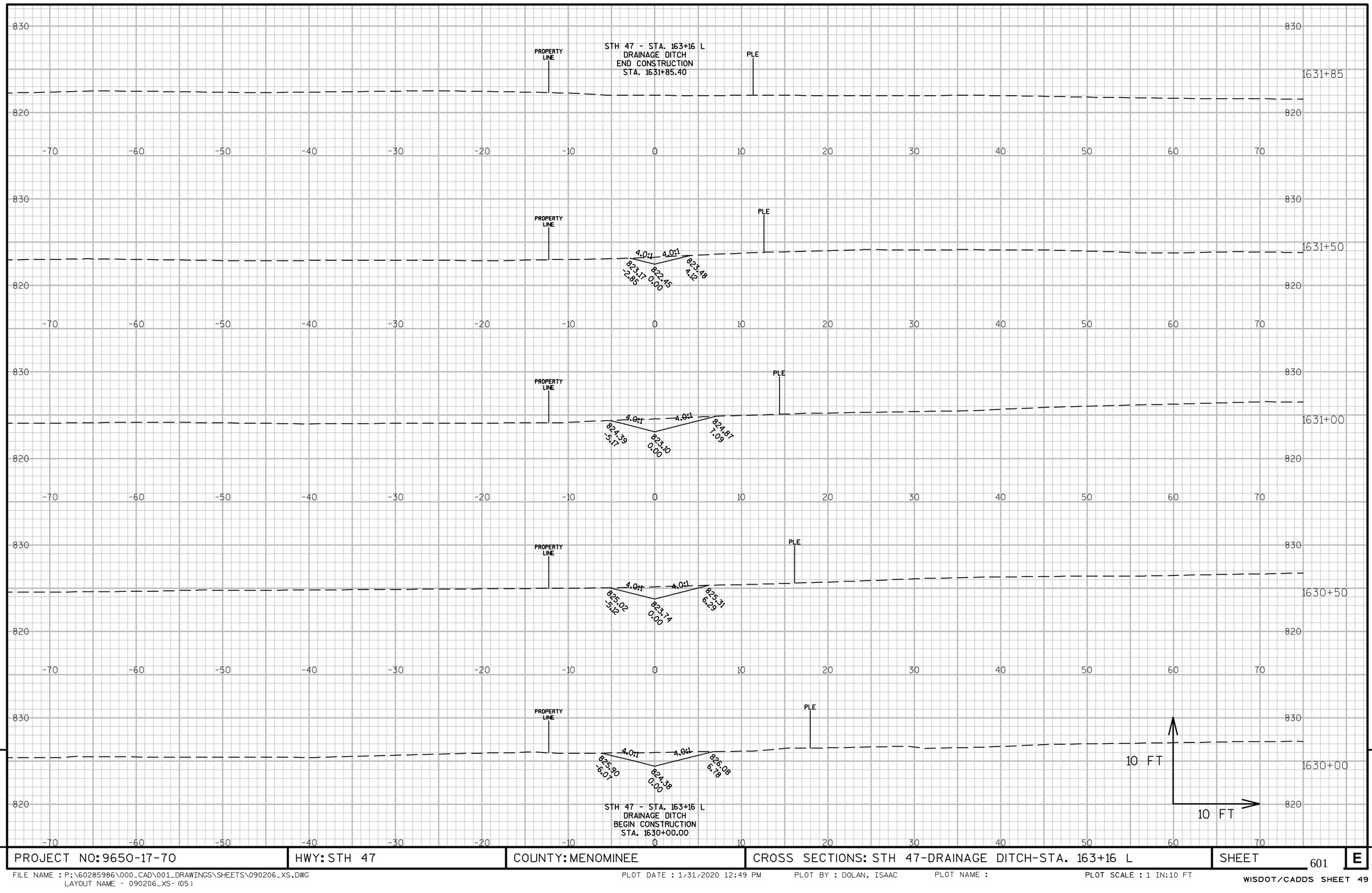
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47-DRAINAGE DITCH-STA. 151+50 L	SHEET 599	E



9 9

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47-DRAINAGE DITCH-STA. 151+50 L	SHEET 600	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090206_XS.DWG
LAYOUT NAME - 090206_XS-(04)
PLOT DATE : 1/31/2020 12:49 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



9

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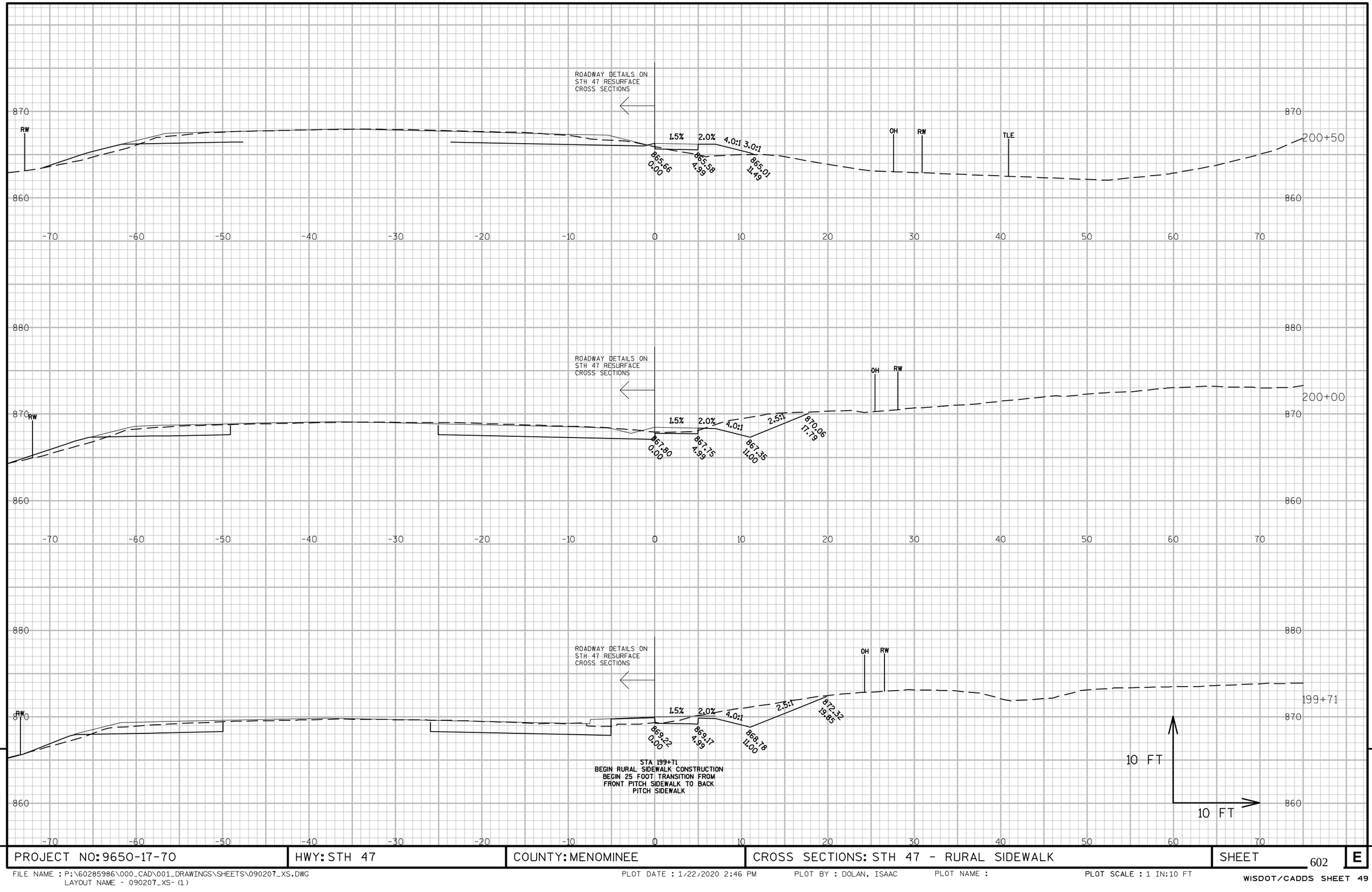
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47-DRAINAGE DITCH-STA. 163+16 L	SHEET 601	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090206_XS.DWG
LAYOUT NAME - 090206_XS-(05)

PLOT DATE : 1/31/2020 12:49 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1 IN:10 FT

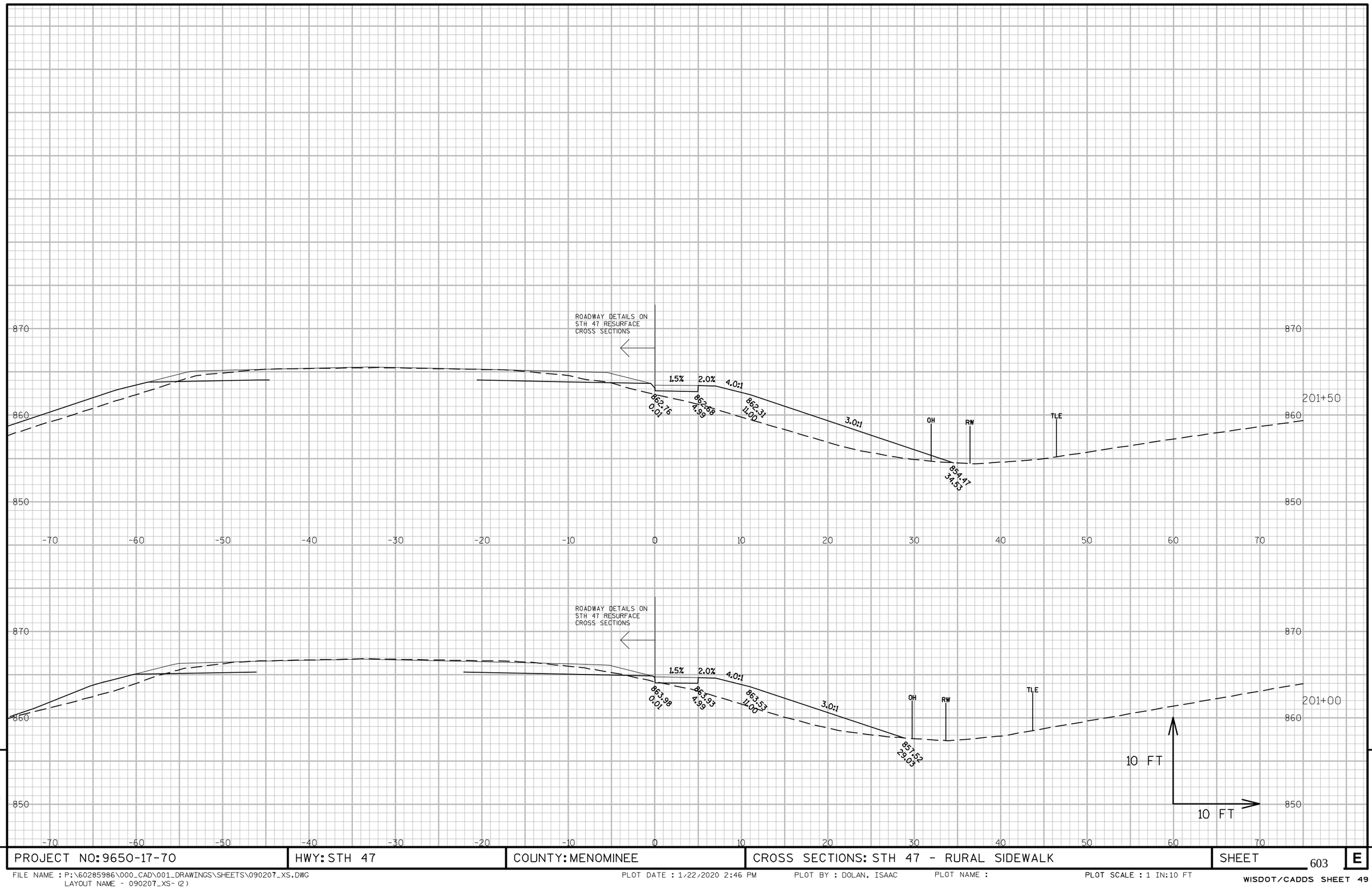
WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 - RURAL SIDEWALK	SHEET 602	E



9

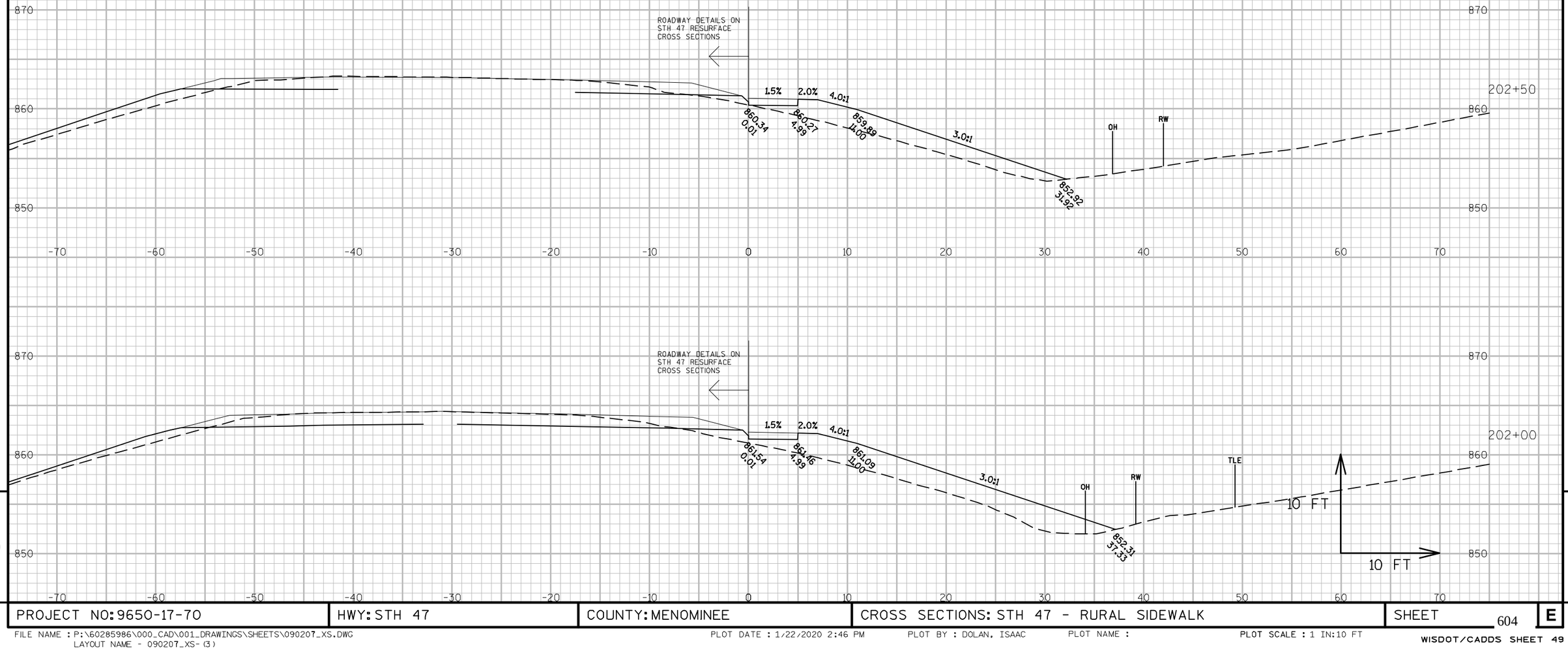
9

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 - RURAL SIDEWALK	SHEET 603	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090207_XS.DWG
LAYOUT NAME - 090207_XS- (2)

PLOT DATE : 1/22/2020 2:46 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

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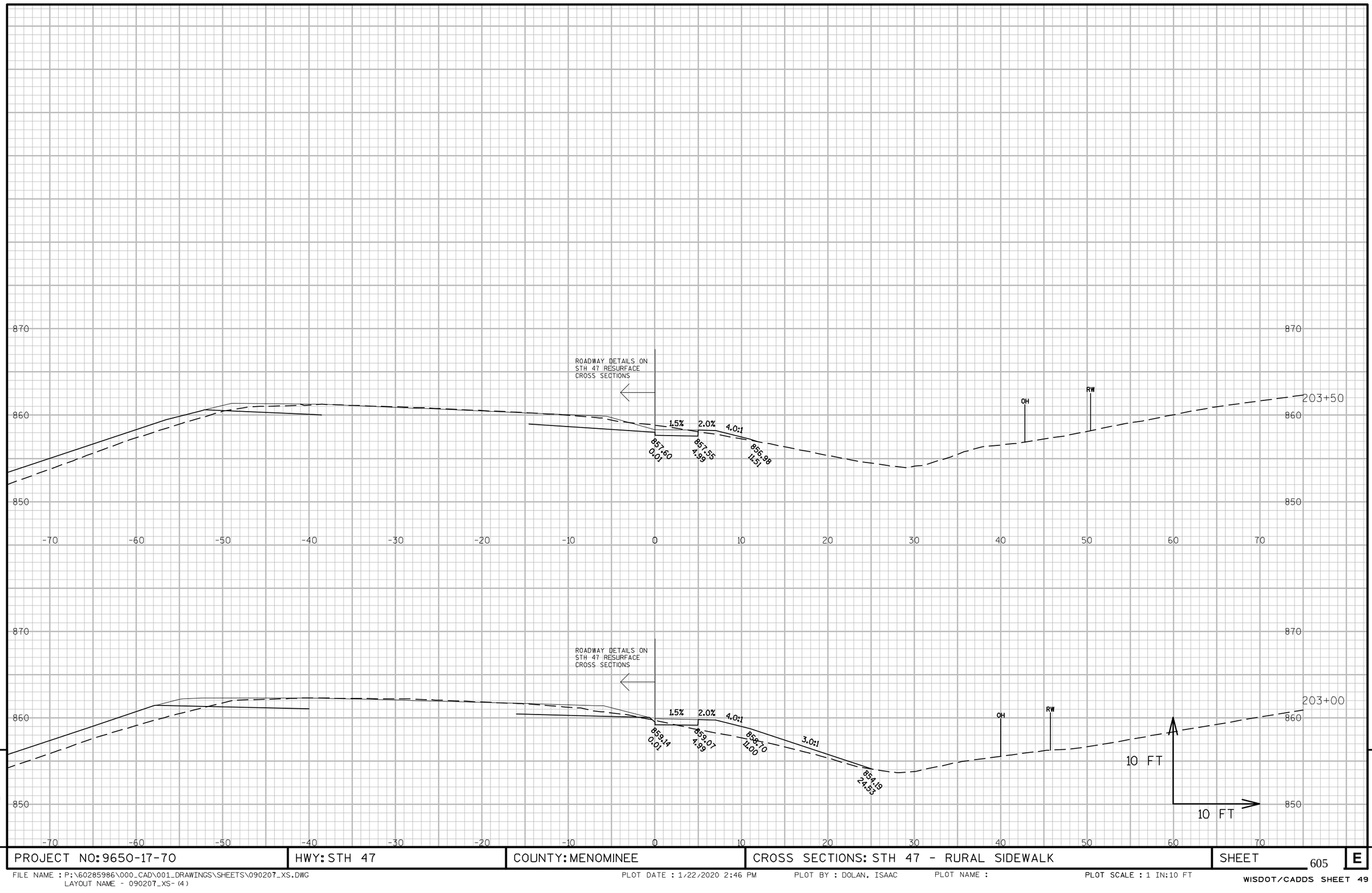
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 - RURAL SIDEWALK	SHEET 604	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090207_XS.DWG
LAYOUT NAME - 090207_XS-(3)

PLOT DATE : 1/22/2020 2:46 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

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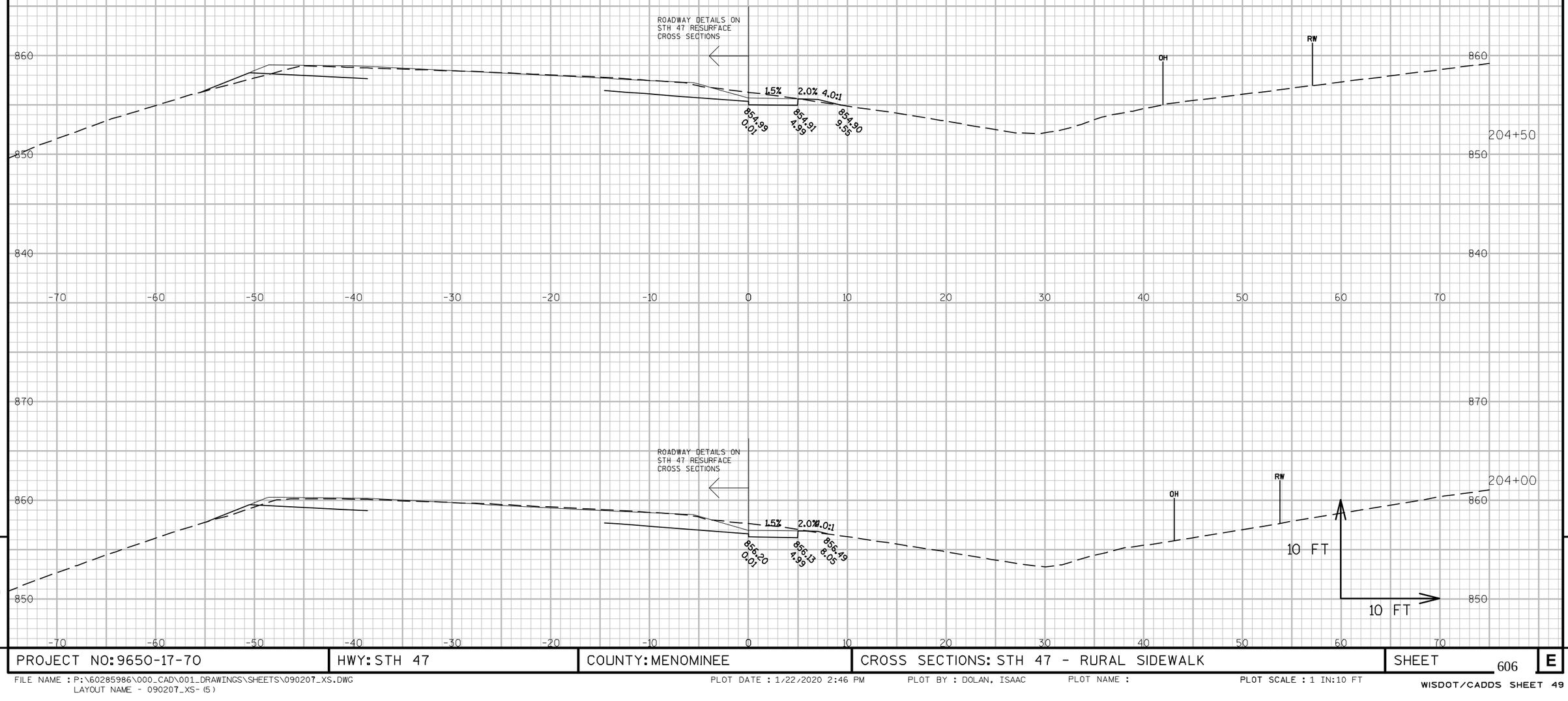
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 - RURAL SIDEWALK	SHEET 605	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090207_XS.DWG
LAYOUT NAME - 090207_XS-(4)

PLOT DATE : 1/22/2020 2:46 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

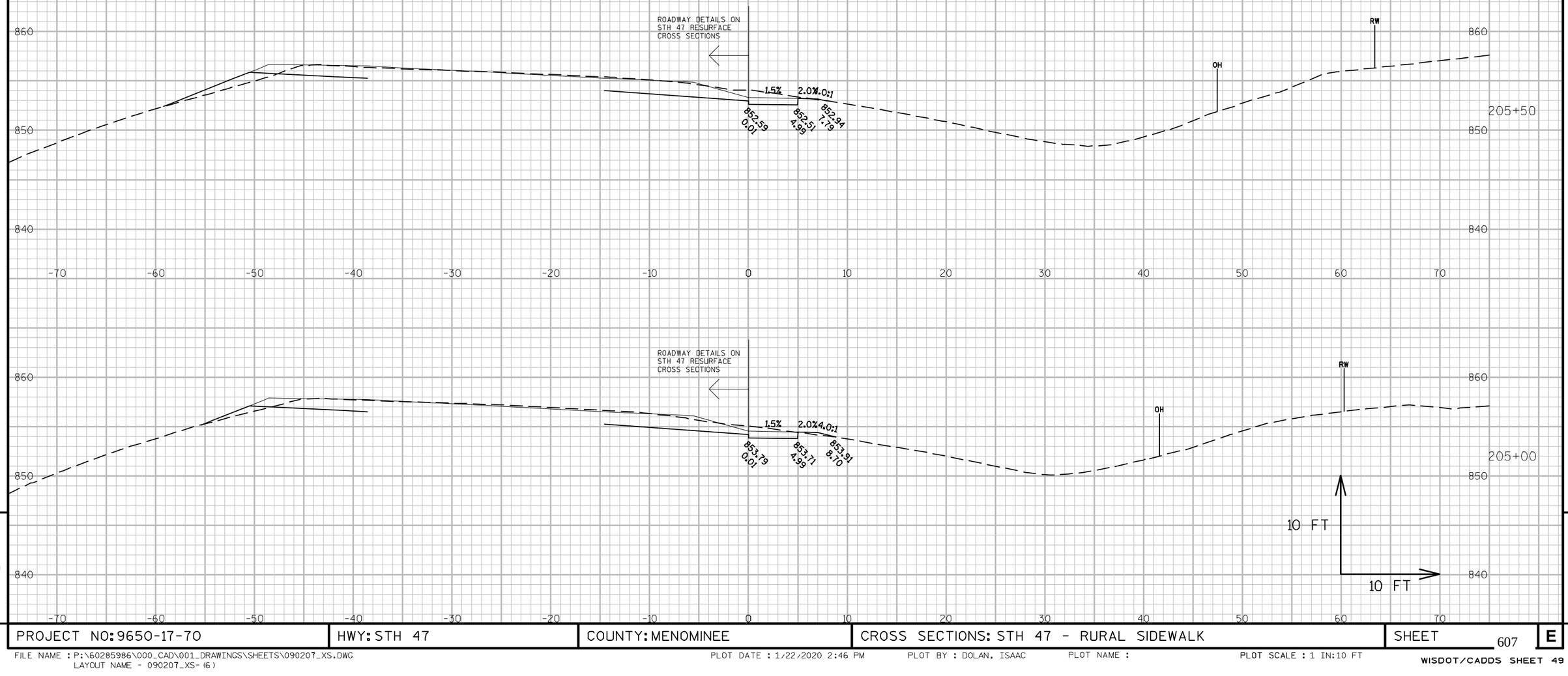
9

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 - RURAL SIDEWALK	SHEET 606	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090207_XS.DWG
LAYOUT NAME - 090207_XS-(5)

PLOT DATE : 1/22/2020 2:46 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

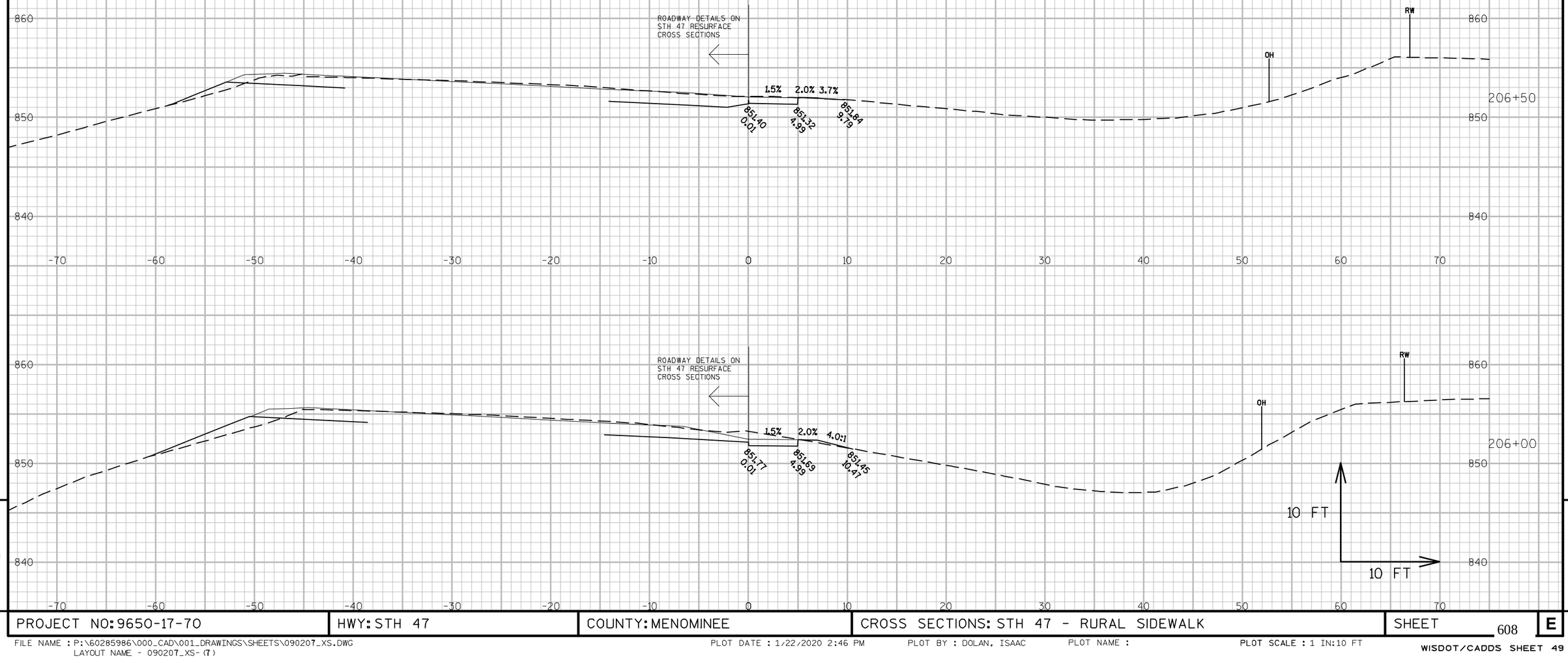
9

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 - RURAL SIDEWALK	SHEET 607	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090207_XS.DWG
LAYOUT NAME - 090207_XS-(6)

PLOT DATE : 1/22/2020 2:46 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

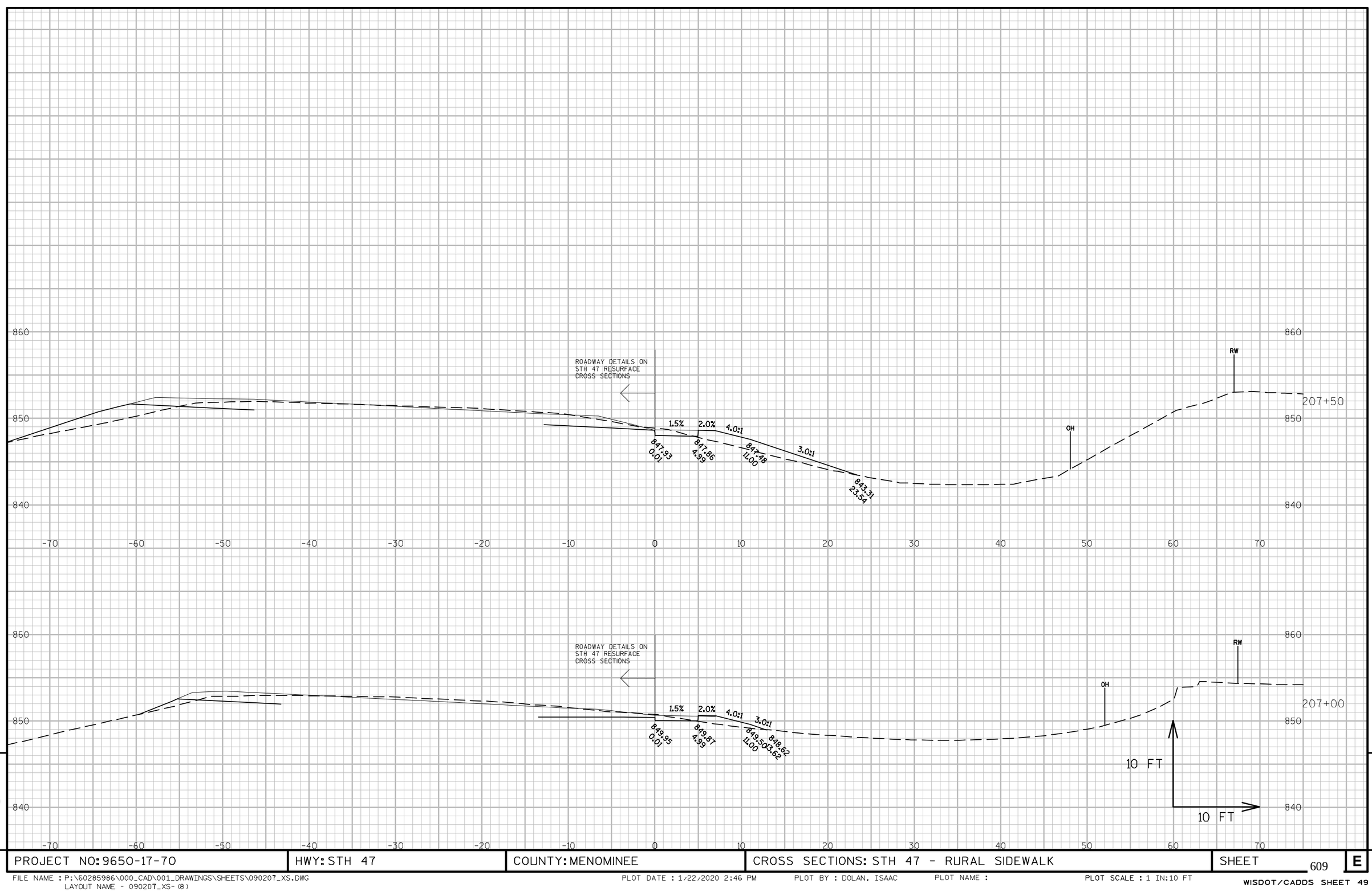


PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 - RURAL SIDEWALK	SHEET 608	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090207_XS.DWG
LAYOUT NAME - 090207_XS-(7)

PLOT DATE : 1/22/2020 2:46 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

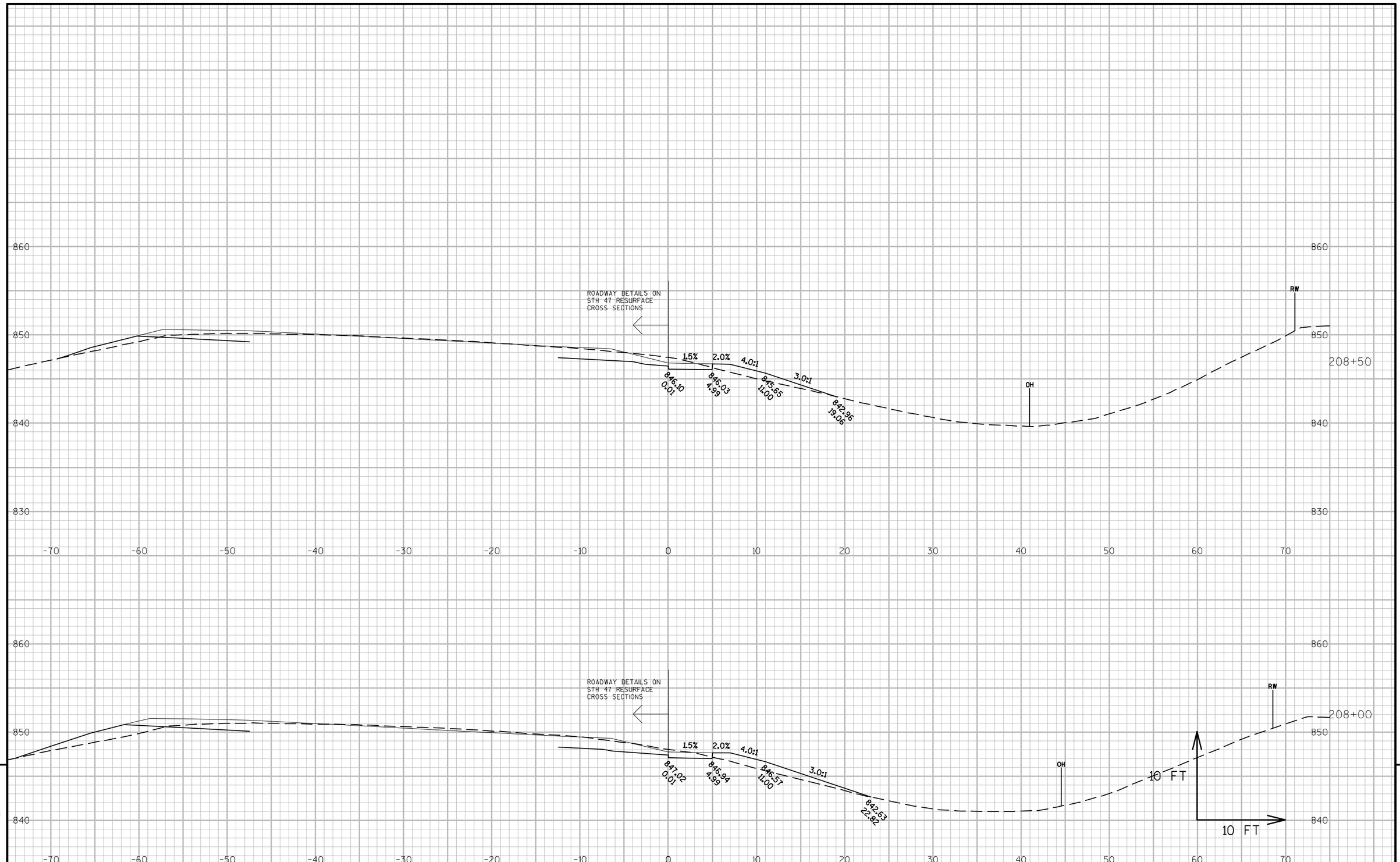
9

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 - RURAL SIDEWALK	SHEET 609	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090207_XS.DWG
LAYOUT NAME - 090207_XS-(8)

PLOT DATE : 1/22/2020 2:46 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

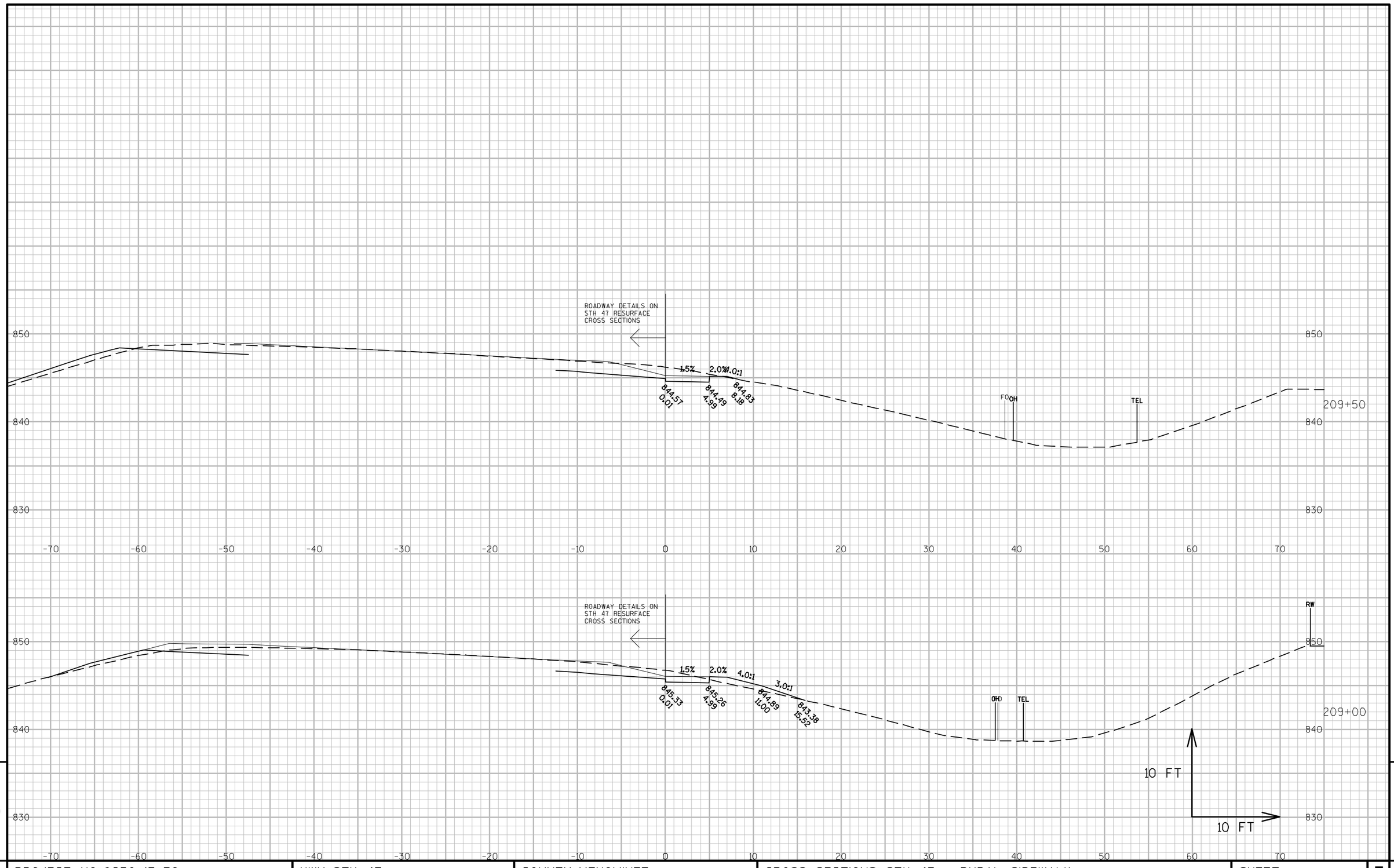
9

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 - RURAL SIDEWALK	SHEET 610	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090207_XS.DWG
LAYOUT NAME - 090207_XS-(9)

PLOT DATE : 1/22/2020 2:47 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

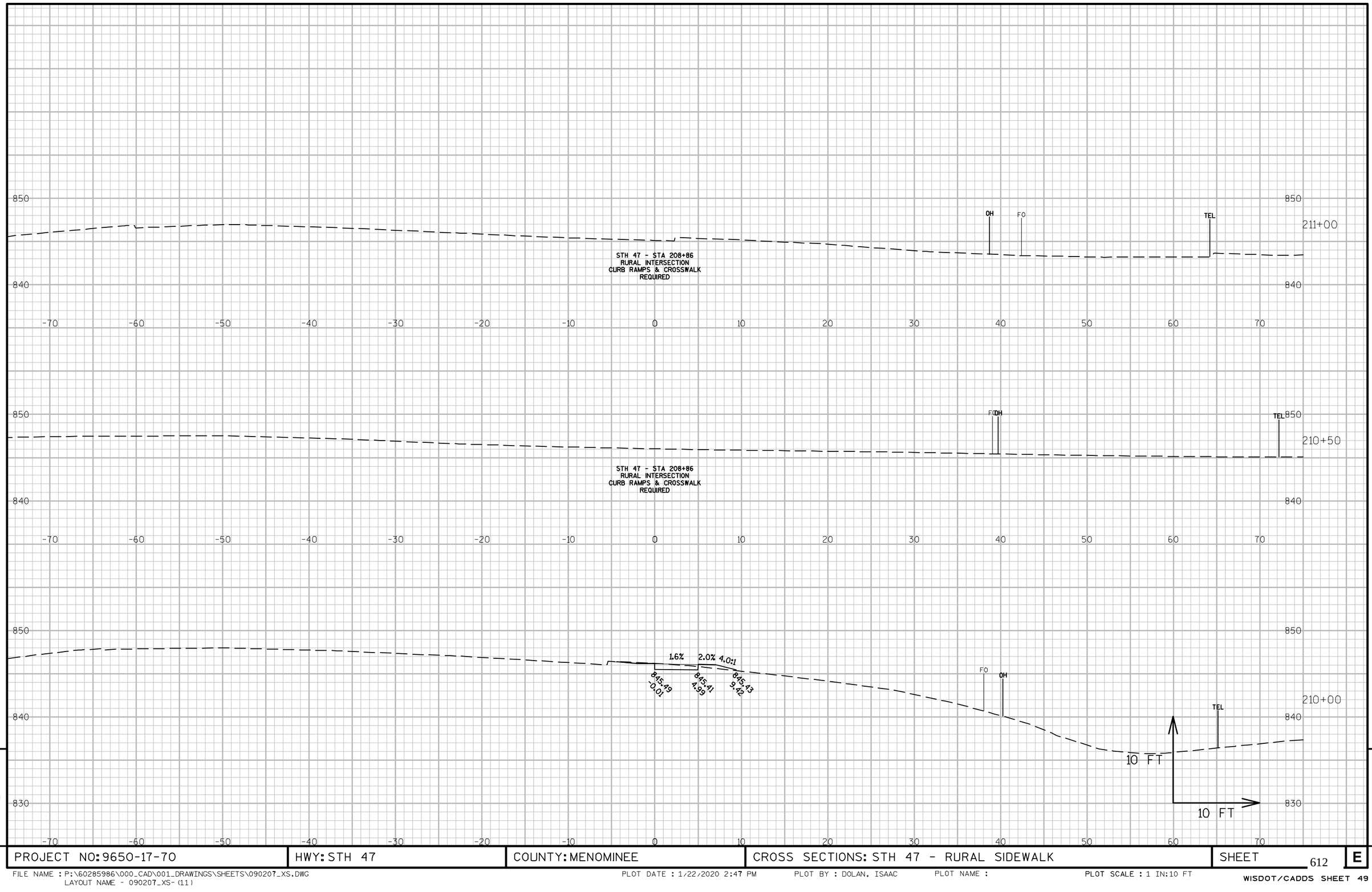


PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 - RURAL SIDEWALK	SHEET 611	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090207_XS.DWG
LAYOUT NAME - 090207_XS-(10)

PLOT DATE : 1/22/2020 2:47 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

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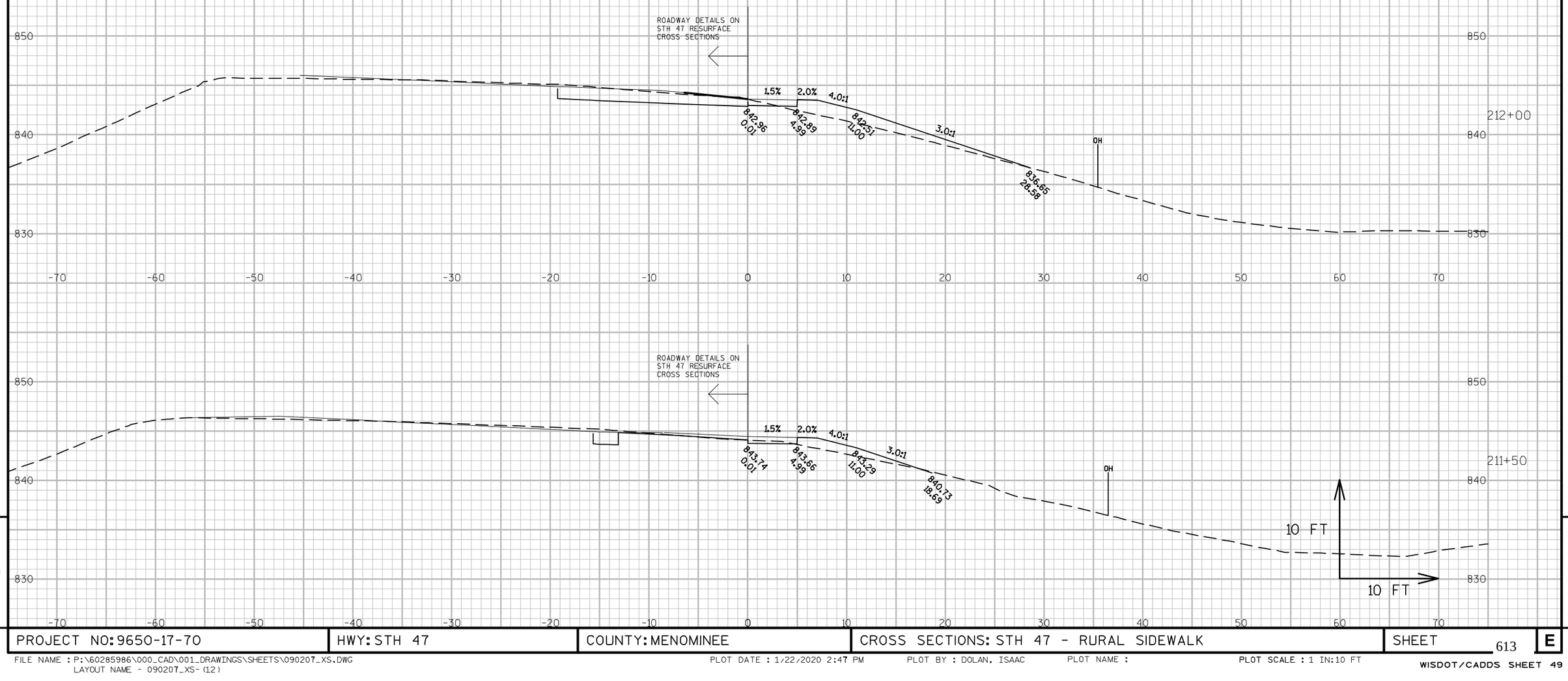
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 - RURAL SIDEWALK	SHEET 612	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090207_XS.DWG
LAYOUT NAME - 090207_XS-(11)

PLOT DATE : 1/22/2020 2:47 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

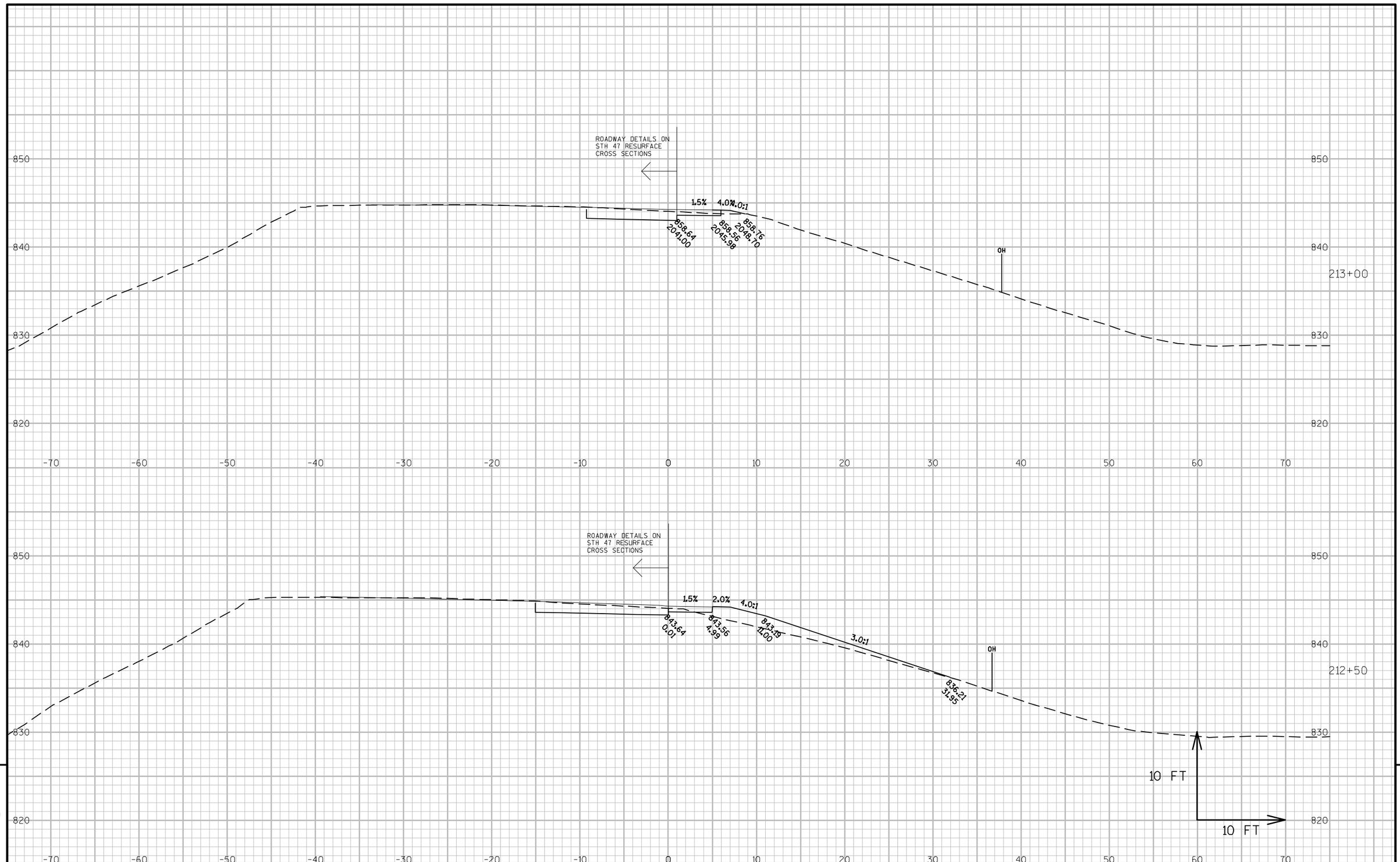


PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 - RURAL SIDEWALK	SHEET 613	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090207_XS.DWG
LAYOUT NAME - 090207_XS-(12)

PLOT DATE : 1/22/2020 2:47 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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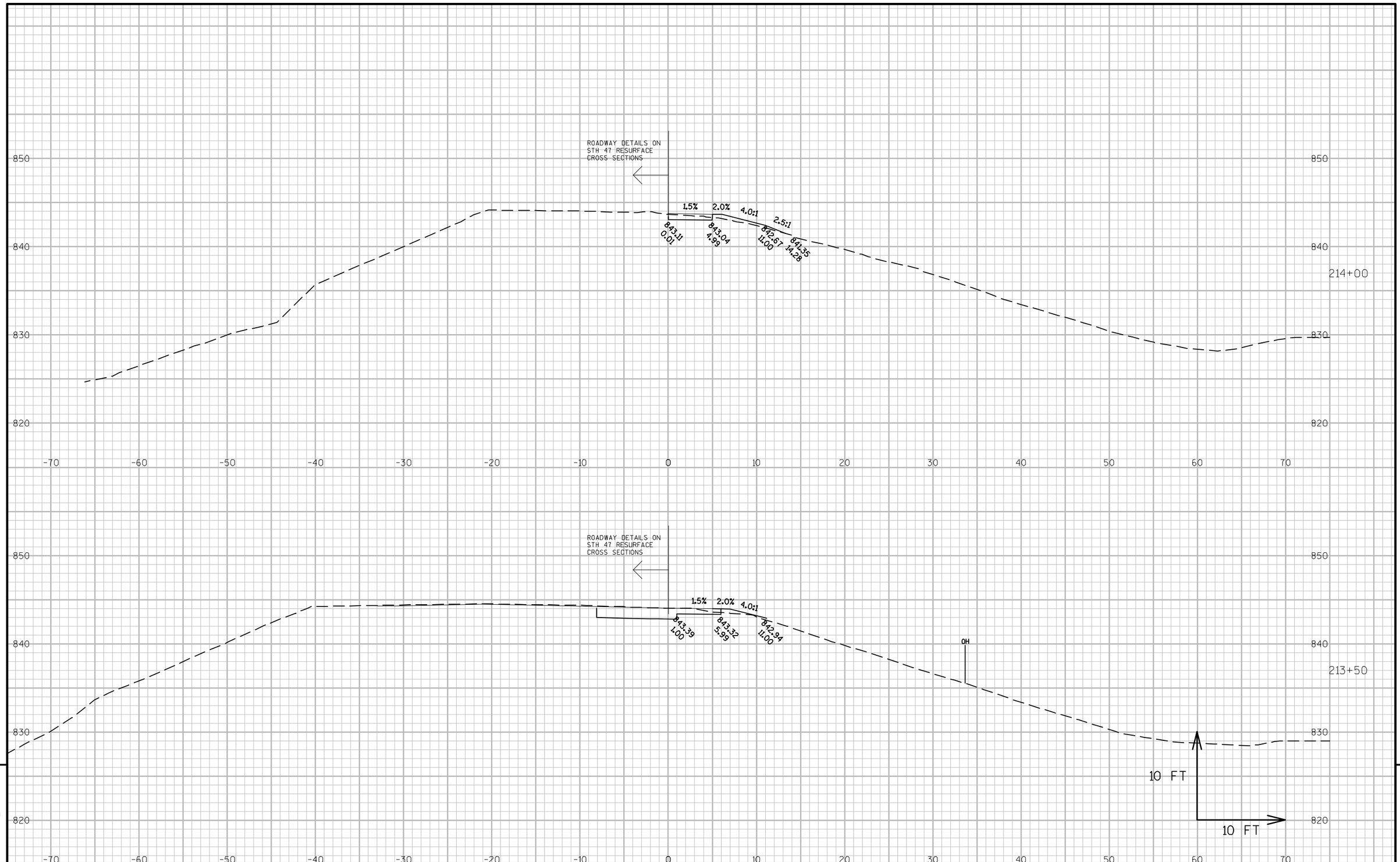
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 - RURAL SIDEWALK	SHEET 614	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090207_XS.DWG
LAYOUT NAME - 090207_XS-(13)

PLOT DATE : 1/22/2020 2:47 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

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PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 - RURAL SIDEWALK	SHEET 615	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090207_XS.DWG
LAYOUT NAME - 090207_XS-(14)
PLOT DATE : 1/22/2020 2:47 PM
PLOT BY : DOLAN, ISAAC
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49

SEE PROJECT 9650-17-61
STRUCTURE PLANS FOR
MORE INFORMATION

215+50

214+09

ROADWAY DETAILS ON
STH 47 RESURFACE
CROSS SECTIONS

10 FT

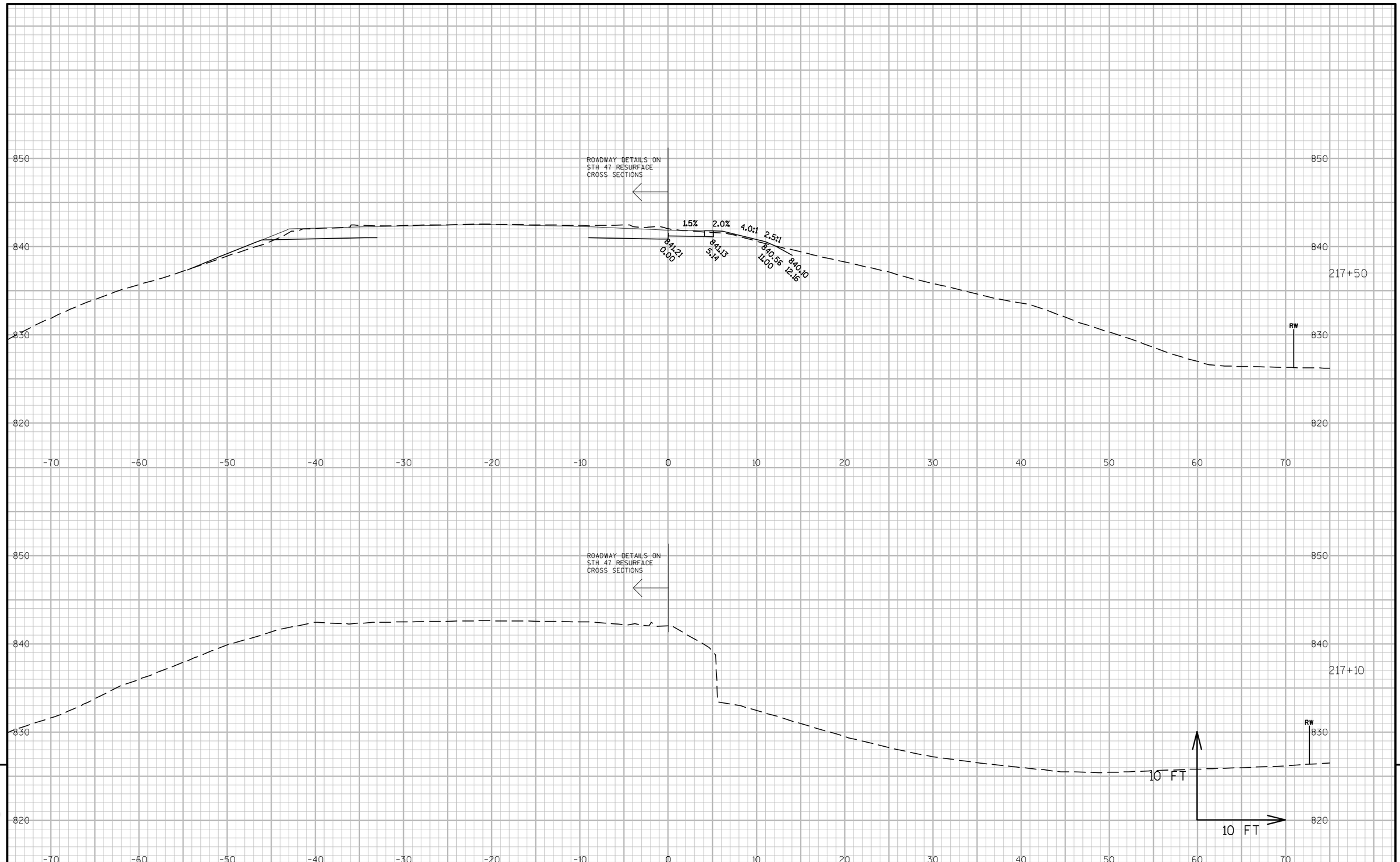
10 FT

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 - RURAL SIDEWALK	SHEET 616	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090207_XS.DWG
LAYOUT NAME - 090207_XS-(15)

PLOT DATE : 1/22/2020 2:47 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

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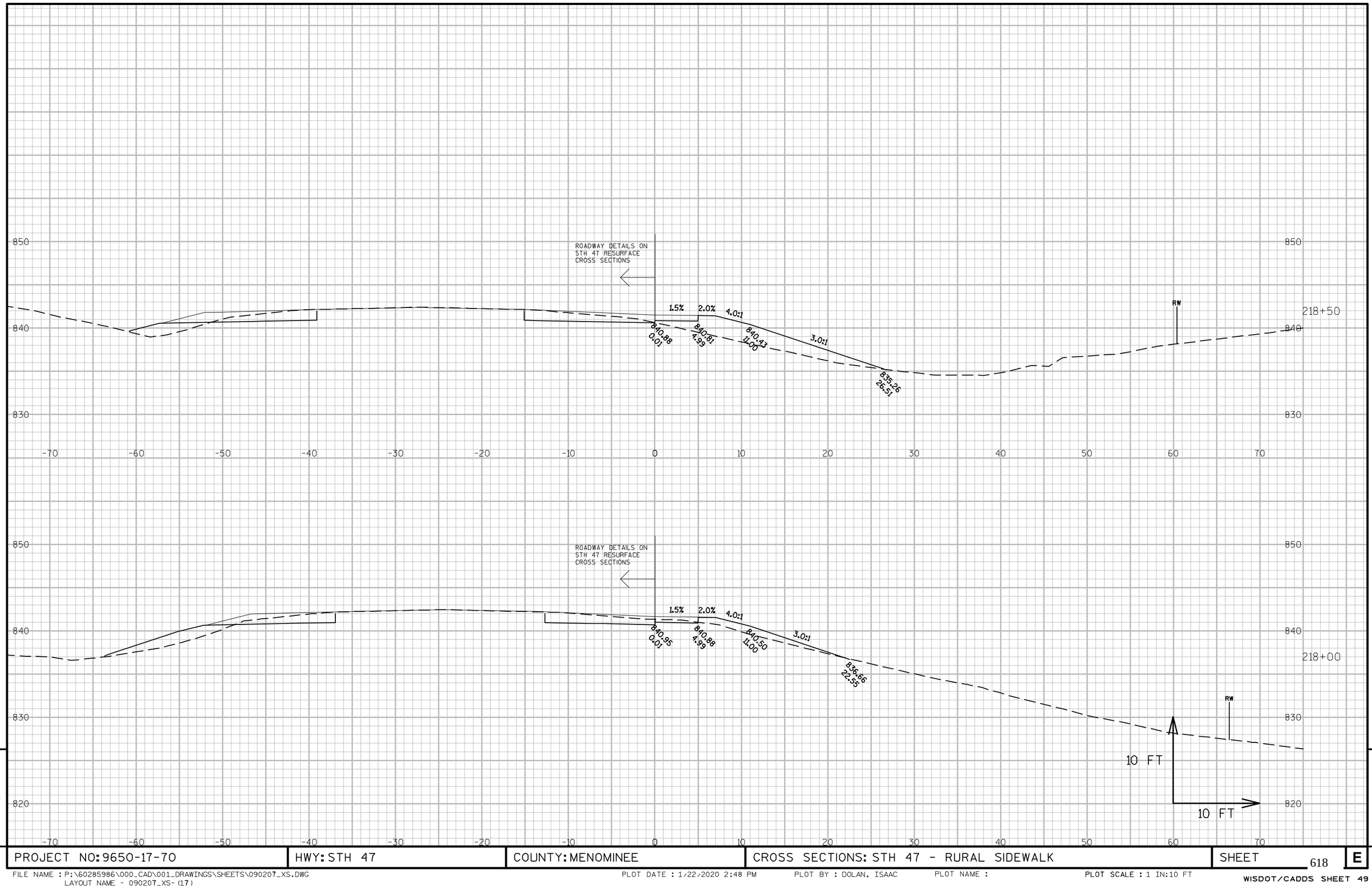
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 - RURAL SIDEWALK	SHEET 617	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090207_XS.DWG
LAYOUT NAME - 090207_XS-(16)

PLOT DATE : 1/22/2020 2:47 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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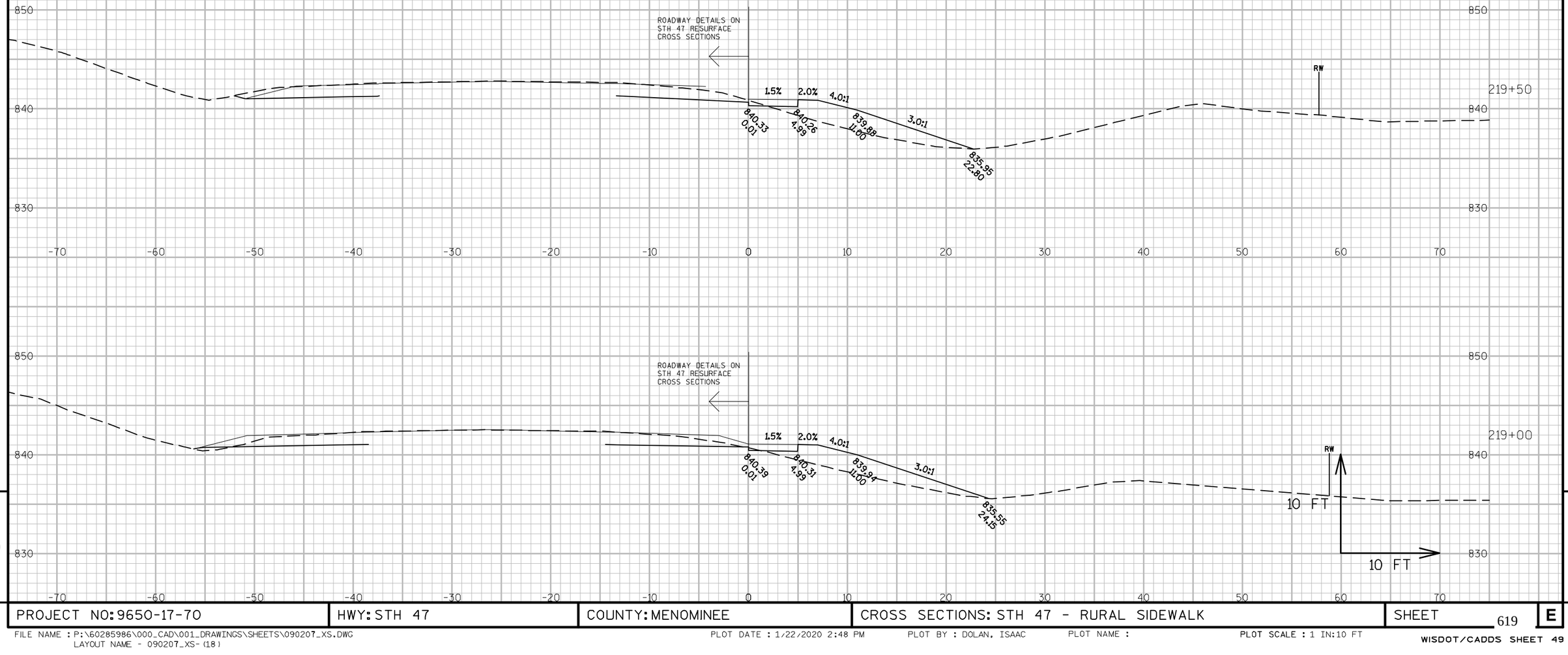
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 - RURAL SIDEWALK	SHEET 618	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090207_XS.DWG
LAYOUT NAME - 090207_XS-(17)

PLOT DATE : 1/22/2020 2:48 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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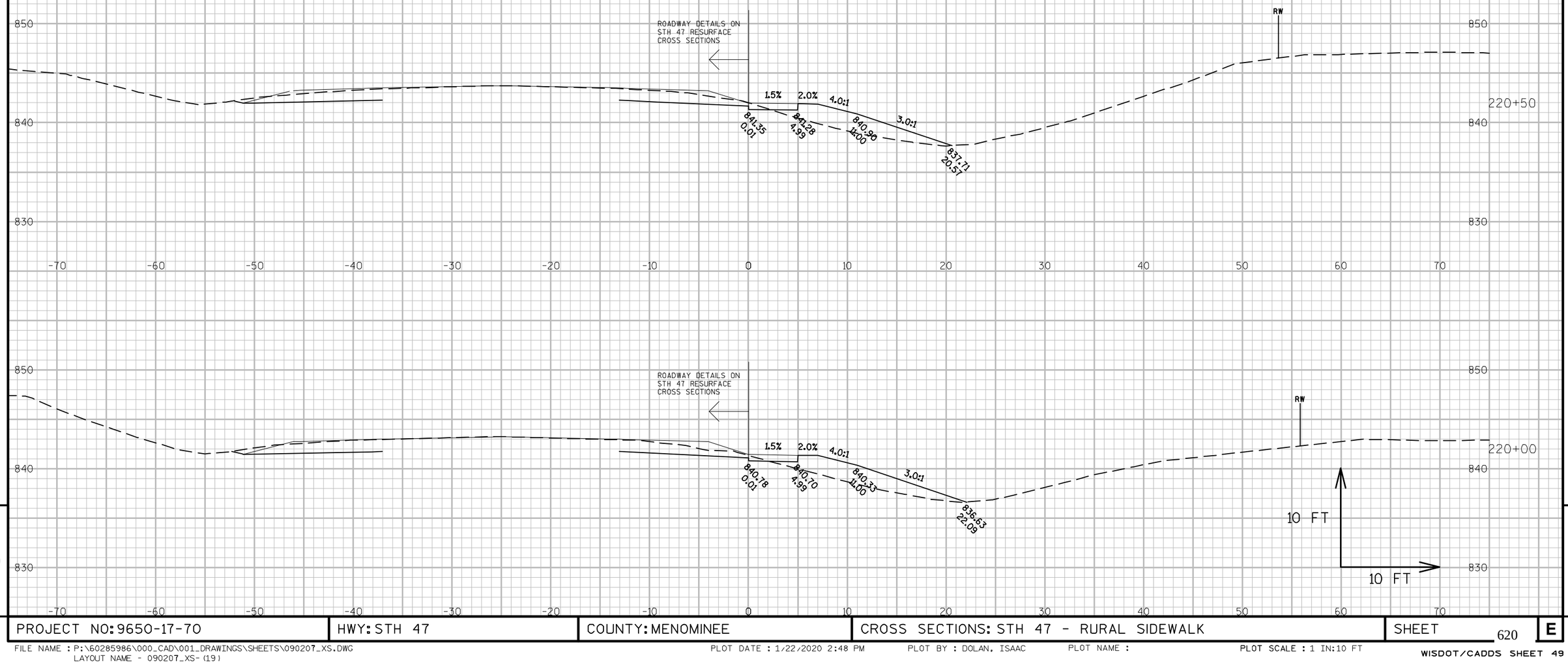
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 - RURAL SIDEWALK	SHEET 619	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090207_XS.DWG
LAYOUT NAME - 090207_XS-(18)

PLOT DATE : 1/22/2020 2:48 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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9

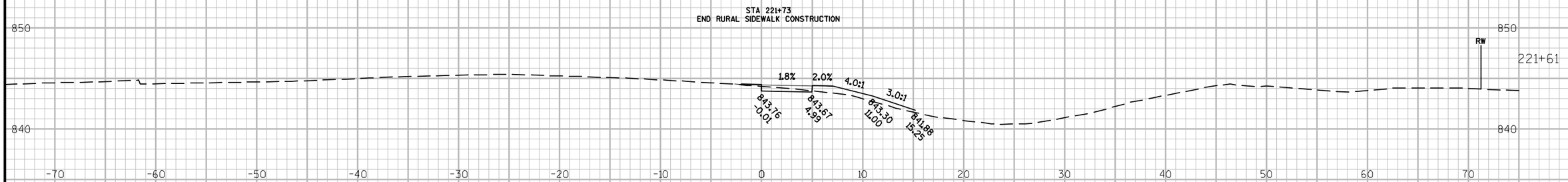
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 - RURAL SIDEWALK	SHEET 620	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090207_XS.DWG
LAYOUT NAME - 090207_XS-(19)

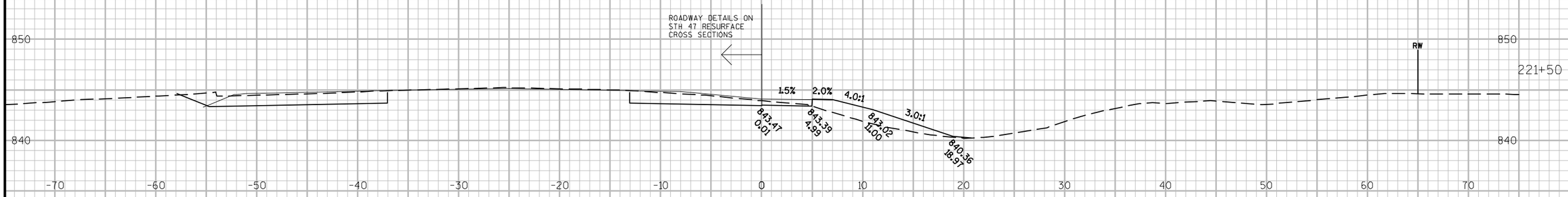
PLOT DATE : 1/22/2020 2:48 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

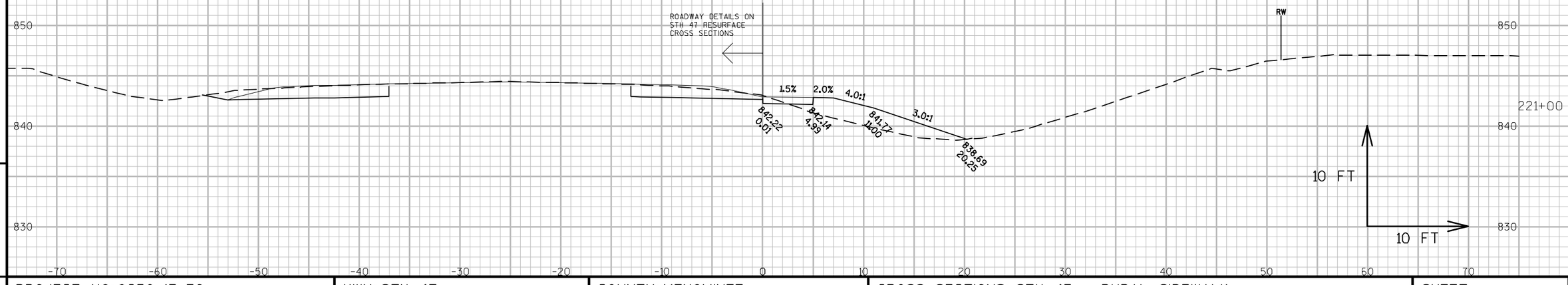
STA 221+73
END RURAL SIDEWALK CONSTRUCTION



ROADWAY DETAILS ON
STH 47 RESURFACE
CROSS SECTIONS



ROADWAY DETAILS ON
STH 47 RESURFACE
CROSS SECTIONS

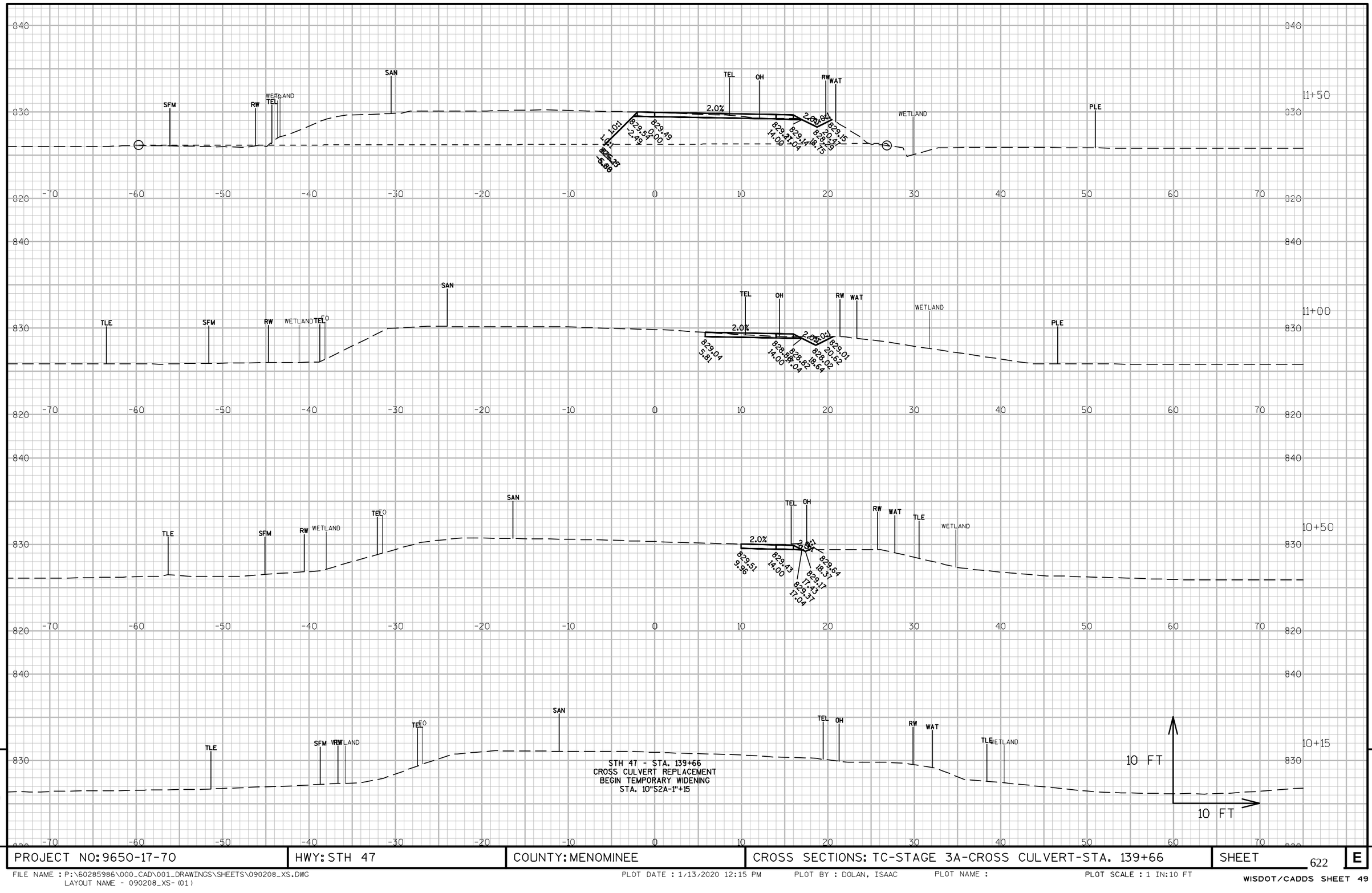


PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 - RURAL SIDEWALK	SHEET 621	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090207_XS.DWG
LAYOUT NAME - 090207_XS-(20)

PLOT DATE : 1/22/2020 2:48 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: TC-STAGE 3A-CROSS CULVERT-STA. 139+66	SHEET 622	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090208_XS.DWG
LAYOUT NAME - 090208_XS-(01)

PLOT DATE : 1/13/2020 12:15 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

STH 47 - STA. 139+66
CROSS CULVERT REPLACEMENT
END TEMPORARY WIDENING
STA. 12"S2A-1"+95

12+95

12+50

12+00

TLE TEL FO RW TEL O OH WAT RW TLE WETLAND PLE

2.0% 2.0% 2.0%

830.92 9.98 830.77 14.00 830.30 18.00 830.81 19.03

829.89 6.12 829.71 14.00 829.68 17.04 829.64 15.95 829.79 19.03

10 FT 10 FT

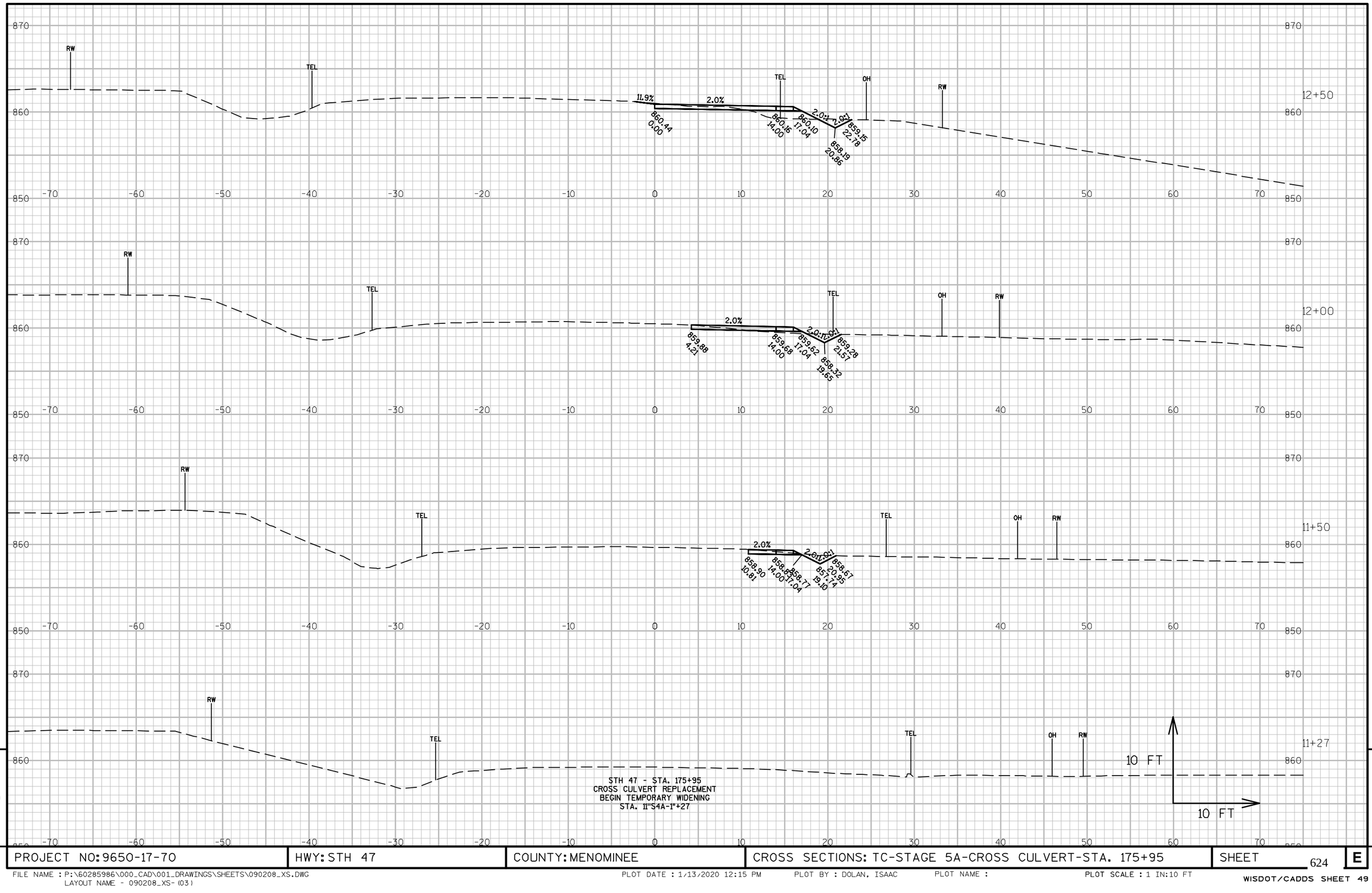
840 830 820 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

9 9

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: TC-STAGE 3A-CROSS CULVERT-STA. 139+66	SHEET 623	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090208_XS.DWG
LAYOUT NAME - 090208_XS-(02)

PLOT DATE : 1/13/2020 12:15 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1 IN:10 FT

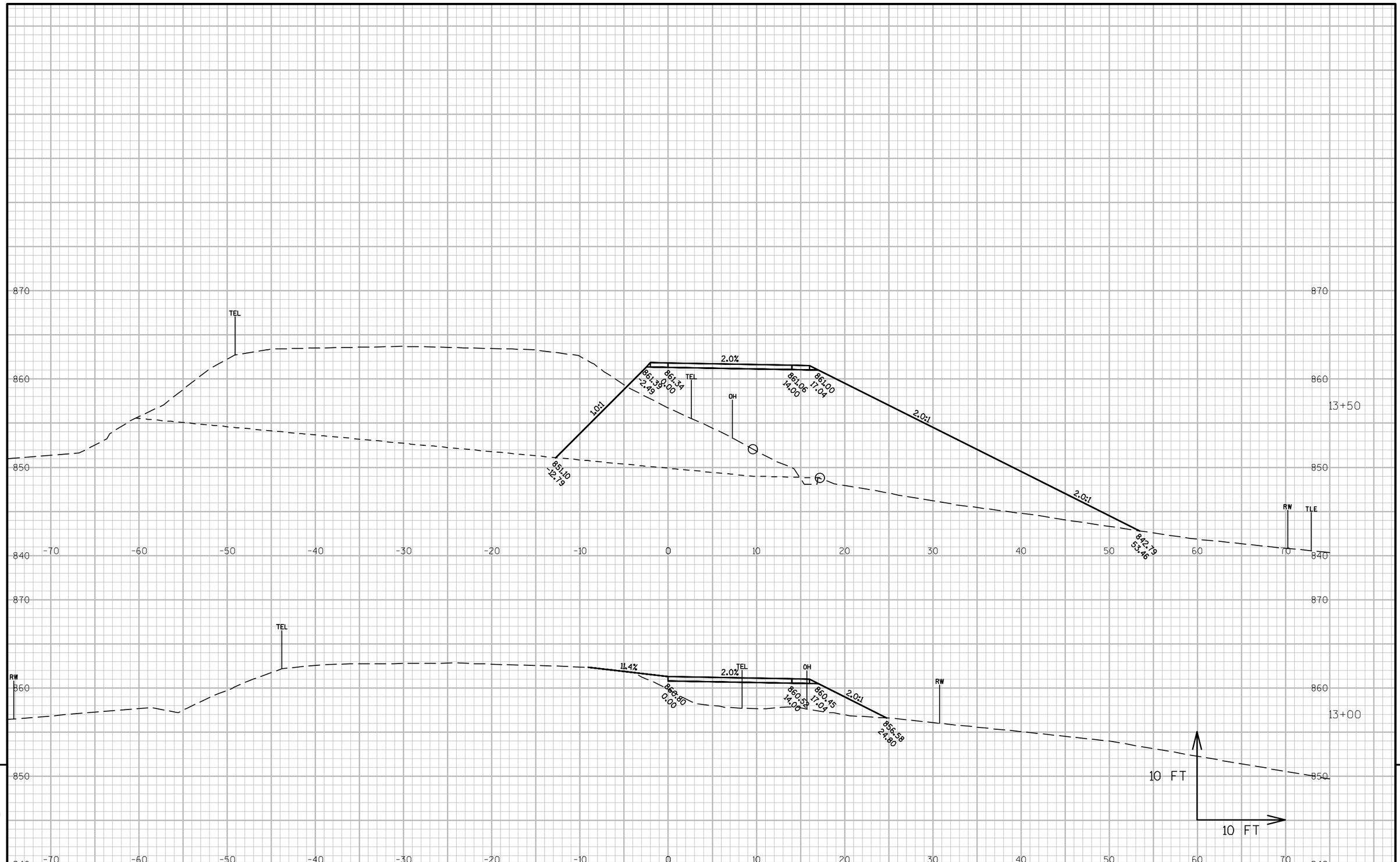


9

9

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: TC-STAGE 5A-CROSS CULVERT-STA. 175+95	SHEET 624	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090208_XS.DWG
LAYOUT NAME - 090208_XS-(03)
PLOT DATE : 1/13/2020 12:15 PM
PLOT BY : DOLAN, ISAAC
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



9

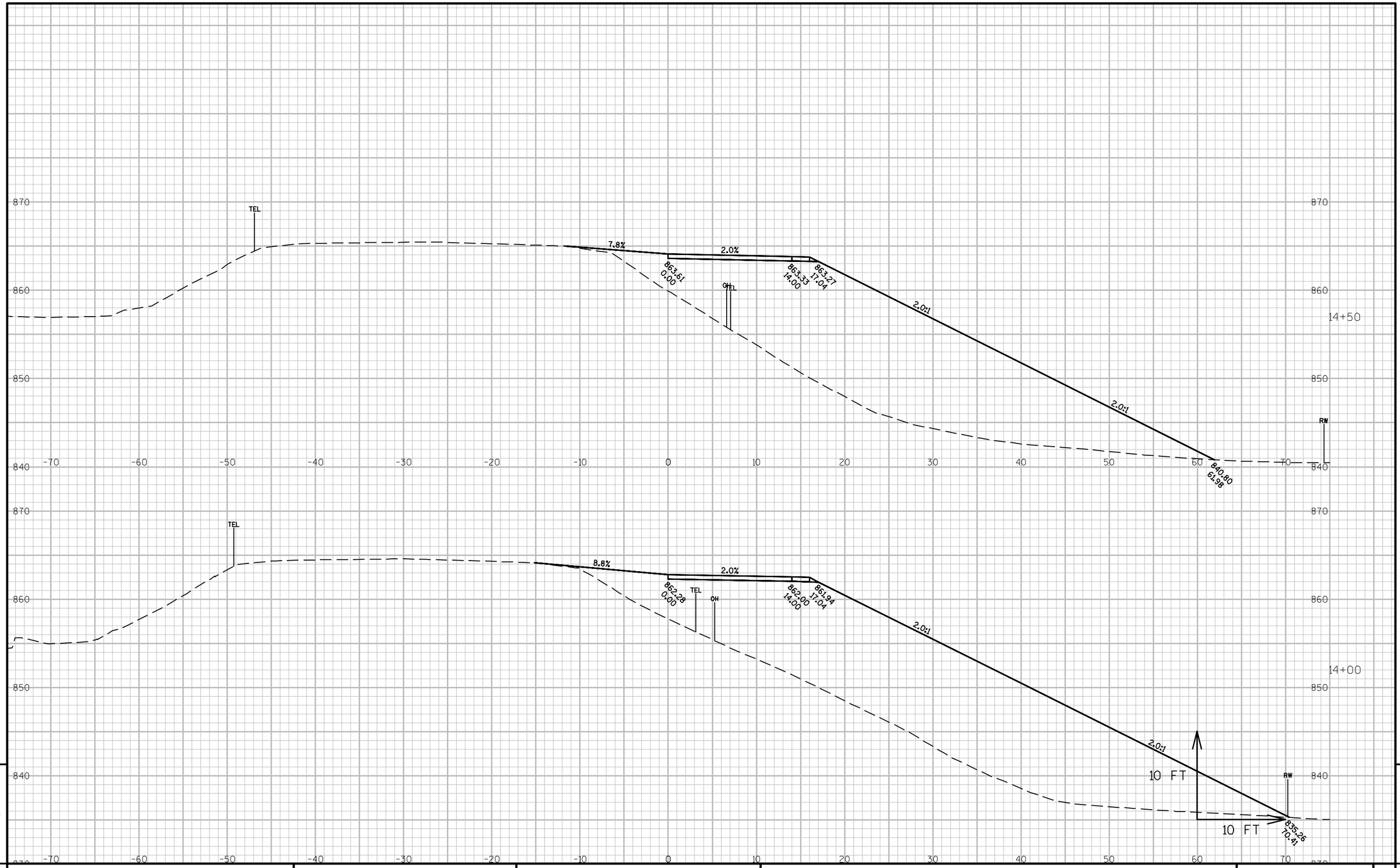
9

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: TC-STAGE 5A-CROSS CULVERT-STA. 175+95	SHEET 625	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090208_XS.DWG
LAYOUT NAME - 090208_XS-(04)

PLOT DATE : 1/13/2020 12:15 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: TC-STAGE 5A-CROSS CULVERT-STA. 175+95	SHEET 626	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090208_XS.DWG
LAYOUT NAME - 090208_XS-(05)

PLOT DATE : 1/13/2020 12:15 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

STH 47 - STA. 175+95
CROSS CULVERT REPLACEMENT
END TEMPORARY WIDENING
STA. 16"S4A-1"+43

16+43

880 / 870 / 860

RW at -50; TEL at -20; OH at 30; TEL at 35; RW at 50

-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

16+00

870 / 860

RW at -60; TEL at -30; 2.0% 868.23 8.37; 868.12 14.00; 868.05 17.04; 2.0:1; OH at 30; TEL at 35; 865.03 24.46; 865.19 22.77; RW at 50

-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

15+50

870 / 860

TEL at -40; RW at -55; 2.0% 867.04 1.68; OH at 15; 866.79 14.00; 866.73 17.04; TEL at 20; 2.0:1; 860.76 28.99; RW at 50

-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

15+00

860 / 850

TEL at -40; RW at -60; 7.1% 865.33 0.00; 2.0% 865.05 14.00; 864.99 17.04; OH at 15; TEL at 20; 2.0:1; 2.0:1; 850.38 46.27; 10 FT; RW at 40; 10 FT

-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

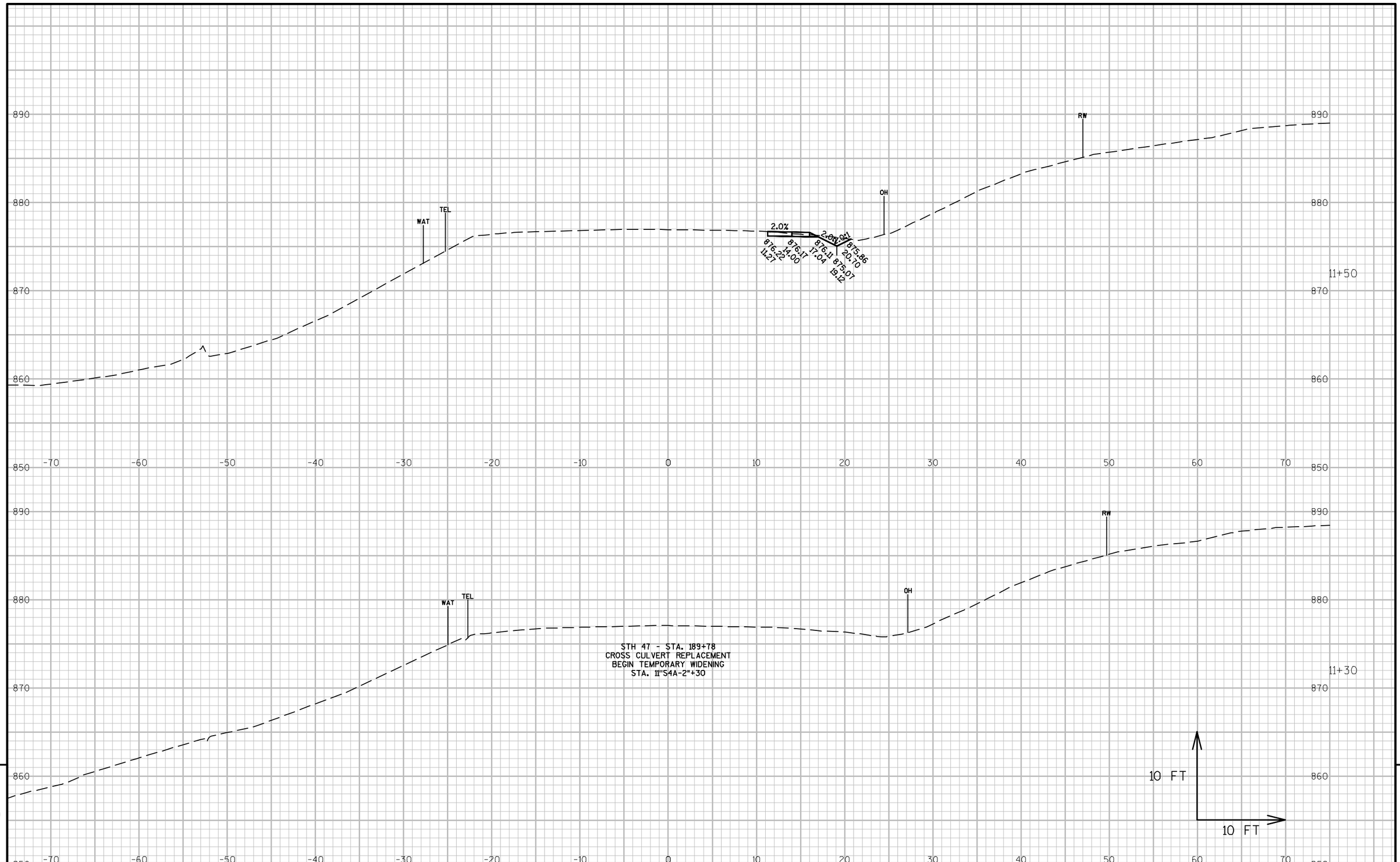
9 9

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: TC-STAGE 5A-CROSS CULVERT-STA. 175+95	SHEET 627	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090208_XS.DWG
LAYOUT NAME - 090208_XS-(06)

PLOT DATE : 1/13/2020 12:15 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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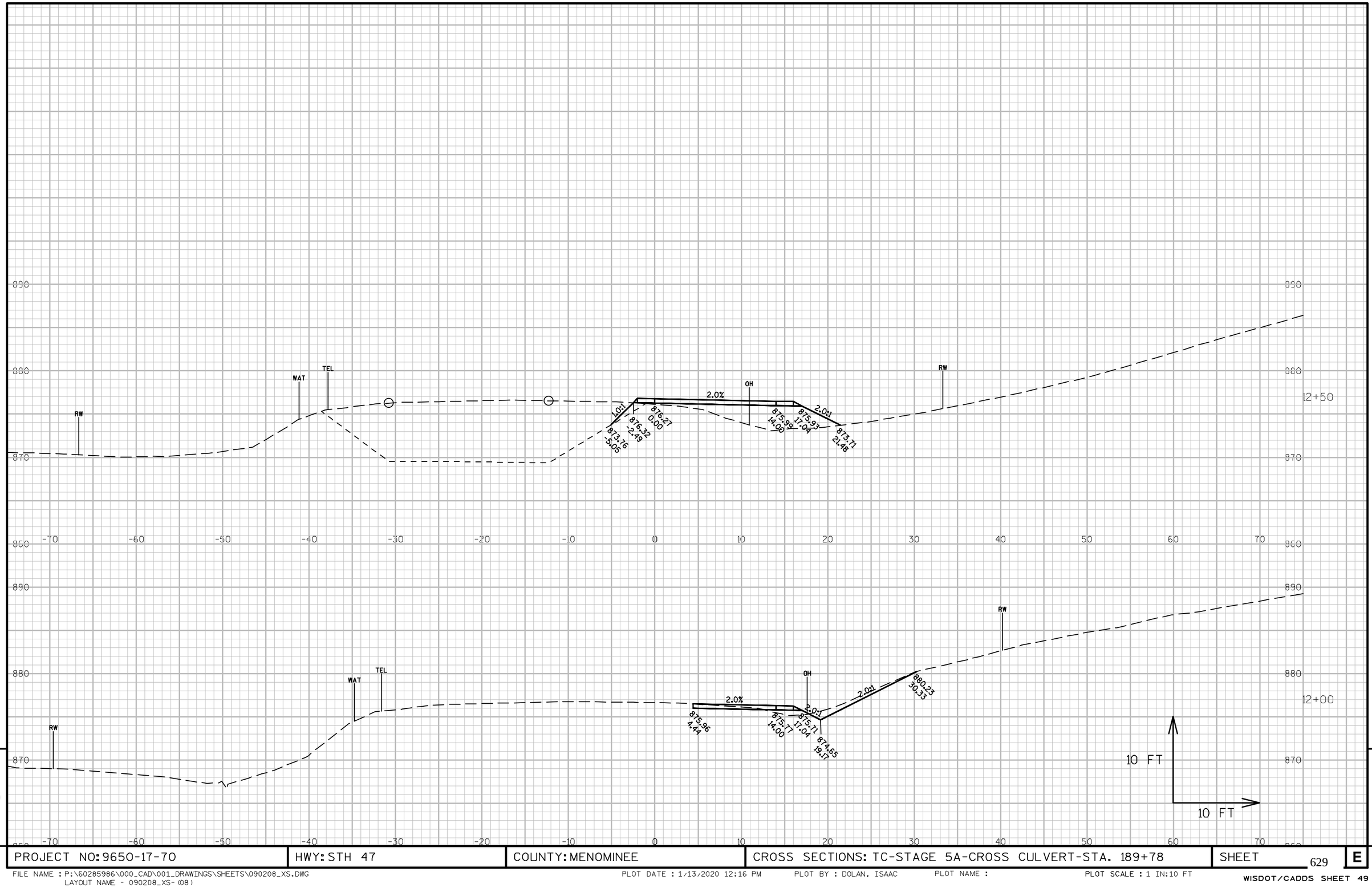
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: TC-STAGE 5A-CROSS CULVERT-STA. 189+78	SHEET 628	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090208_XS.DWG
LAYOUT NAME - 090208_XS-(07)

PLOT DATE : 1/13/2020 12:16 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

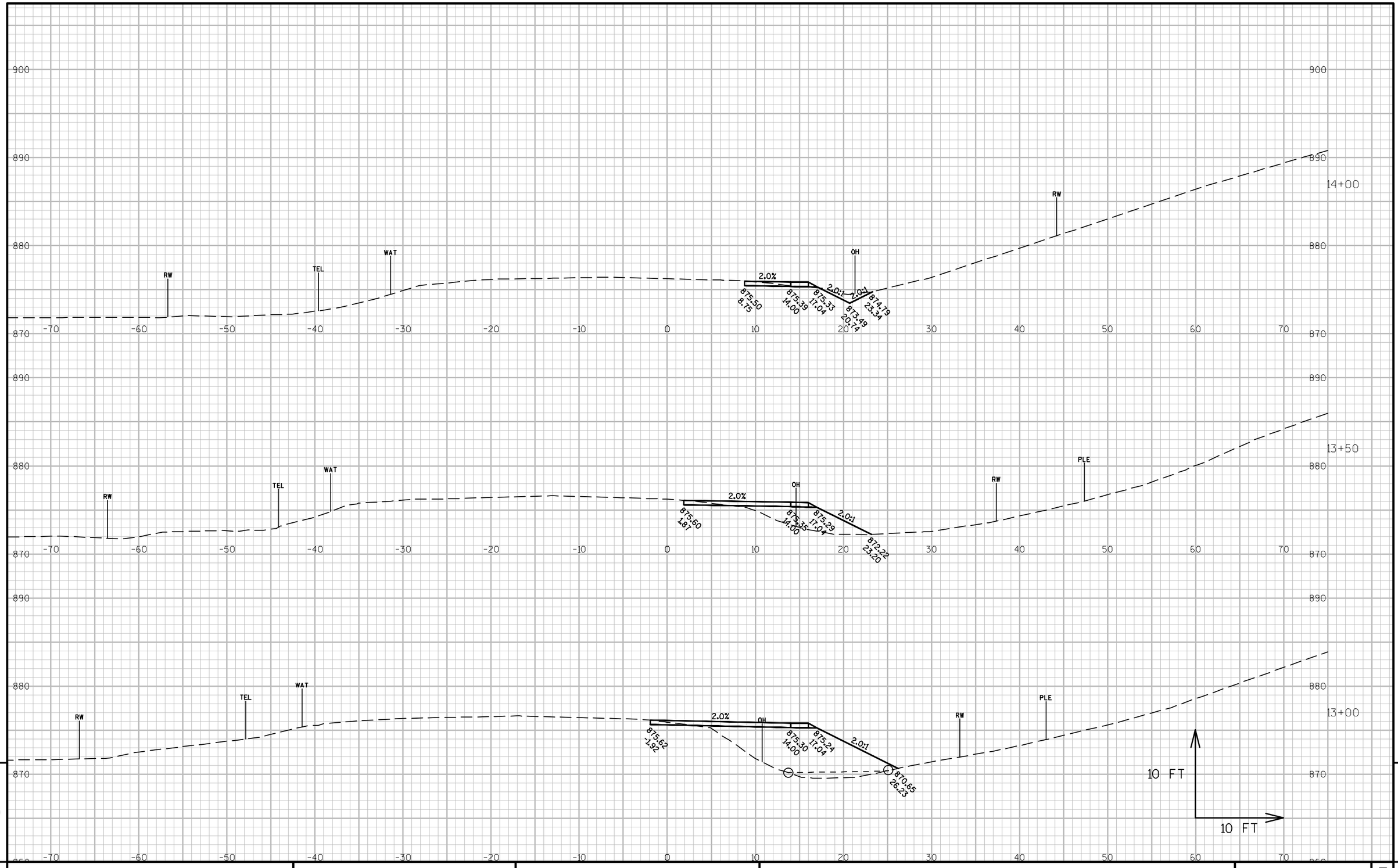


PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: TC-STAGE 5A-CROSS CULVERT-STA. 189+78	SHEET 629	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090208_XS.DWG
LAYOUT NAME - 090208_XS-(08)

PLOT DATE : 1/13/2020 12:16 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

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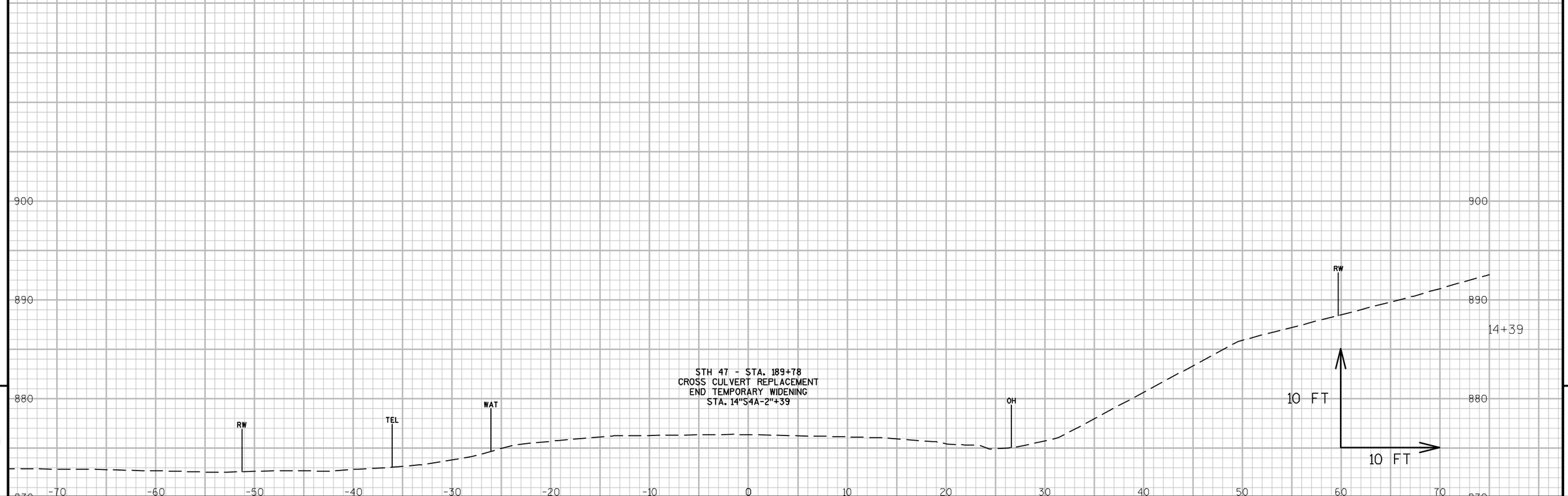
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: TC-STAGE 5A-CROSS CULVERT-STA. 189+78	SHEET 630	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090208_XS.DWG
LAYOUT NAME - 090208_XS-(09)

PLOT DATE : 1/13/2020 12:16 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

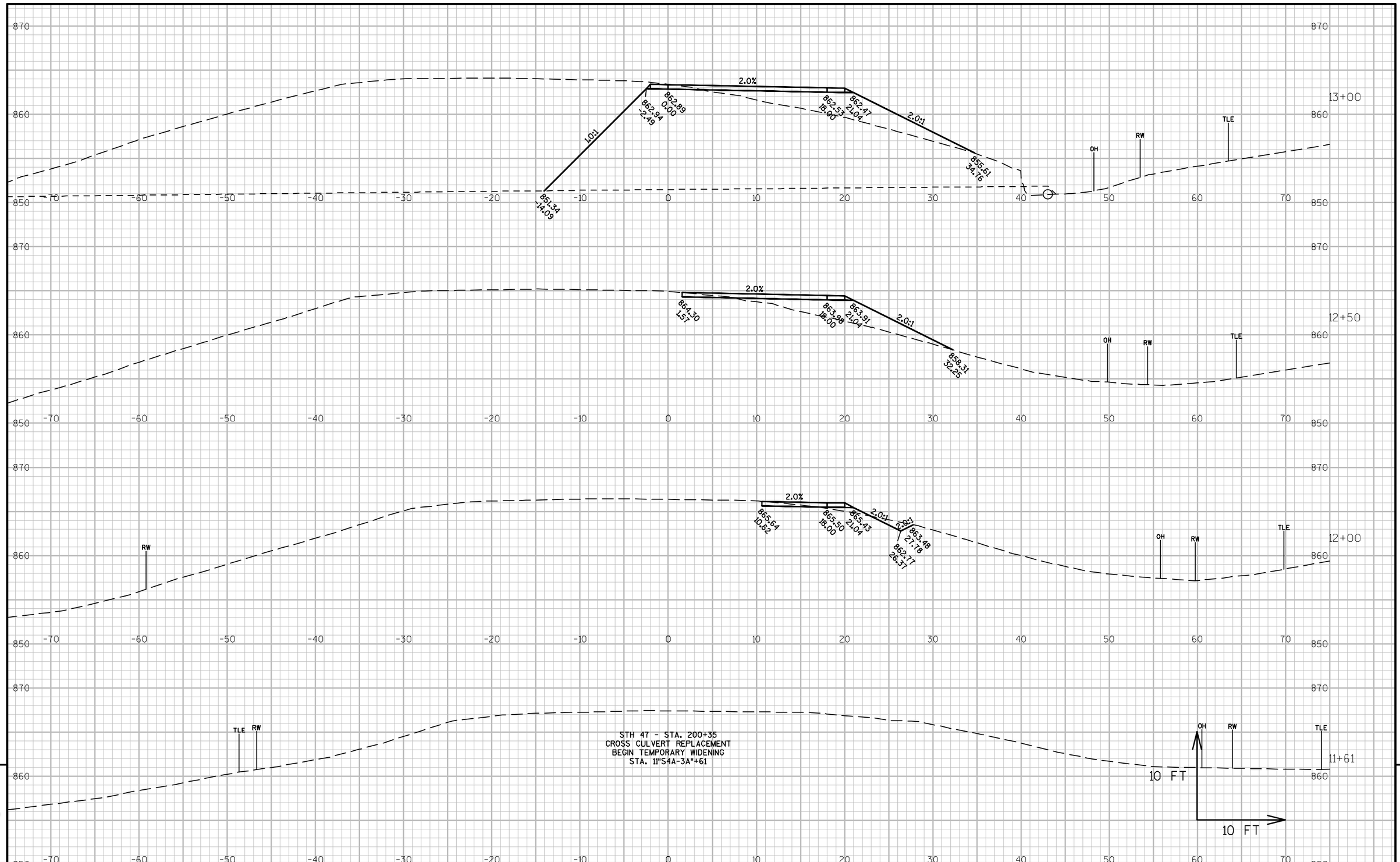


STH 47 - STA. 189+78
CROSS CULVERT REPLACEMENT
END TEMPORARY WIDENING
STA. 14"S4A-2"+39

9 9

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: TC-STAGE 5A-CROSS CULVERT-STA. 189+78	SHEET 631	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090208_XS.DWG
LAYOUT NAME - 090208_XS-(10)
PLOT DATE : 1/13/2020 12:16 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49

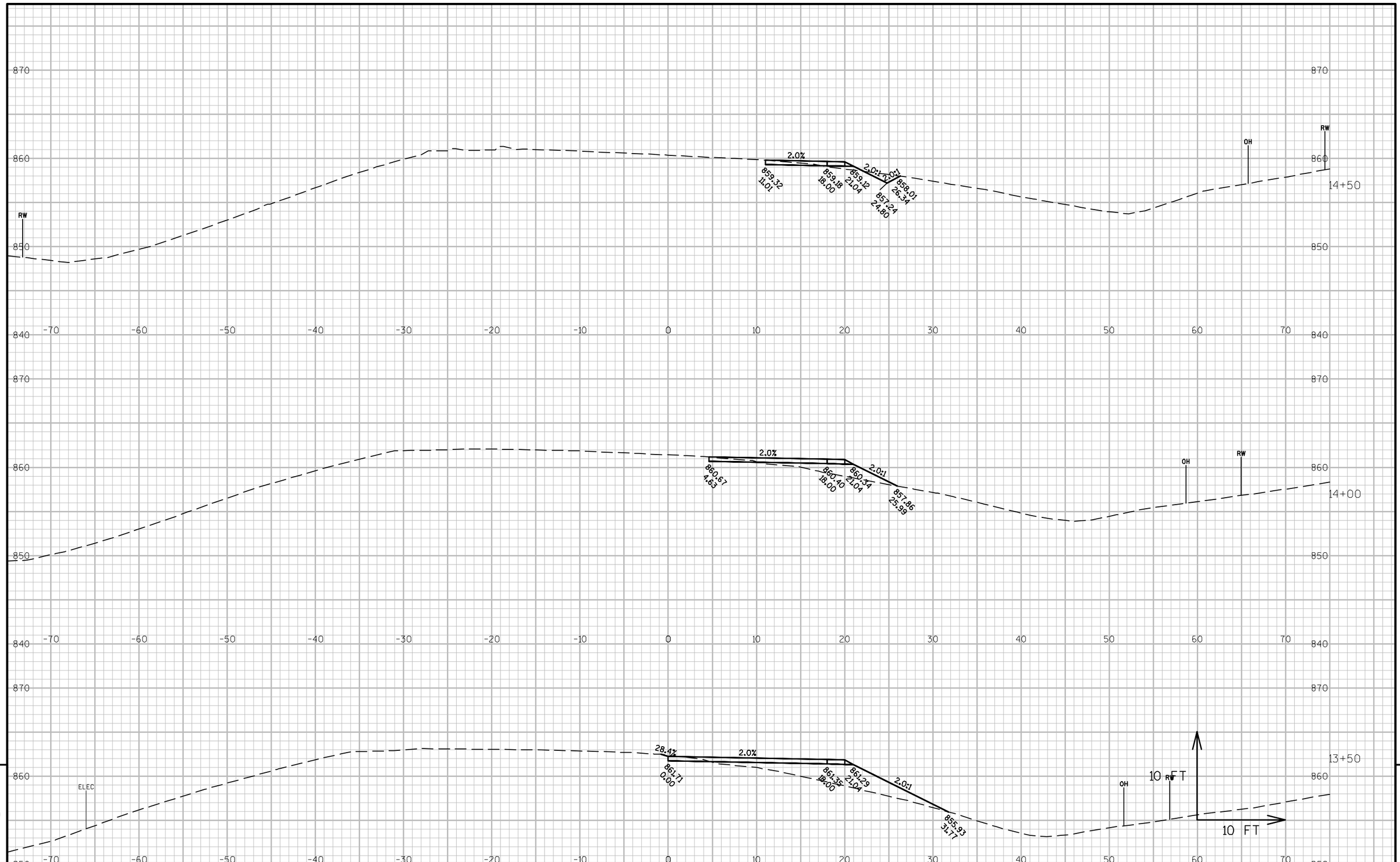


PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: TC-STAGE 5A-CROSS CULVERT-STA. 200+35	SHEET 632 E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090208_XS.DWG
LAYOUT NAME - 090208_XS-(11)

PLOT DATE : 1/13/2020 12:16 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

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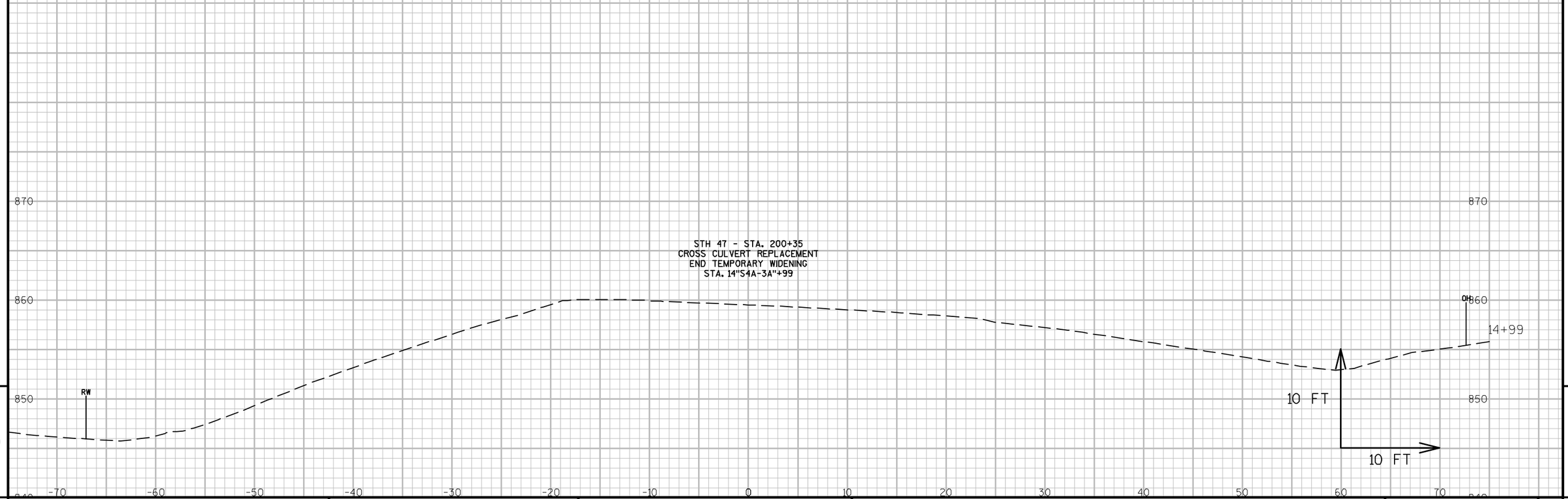
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: TC-STAGE 5A-CROSS CULVERT-STA. 200+35	SHEET 633	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090208_XS.DWG
LAYOUT NAME - 090208_XS-(12)
PLOT DATE : 1/13/2020 12:16 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



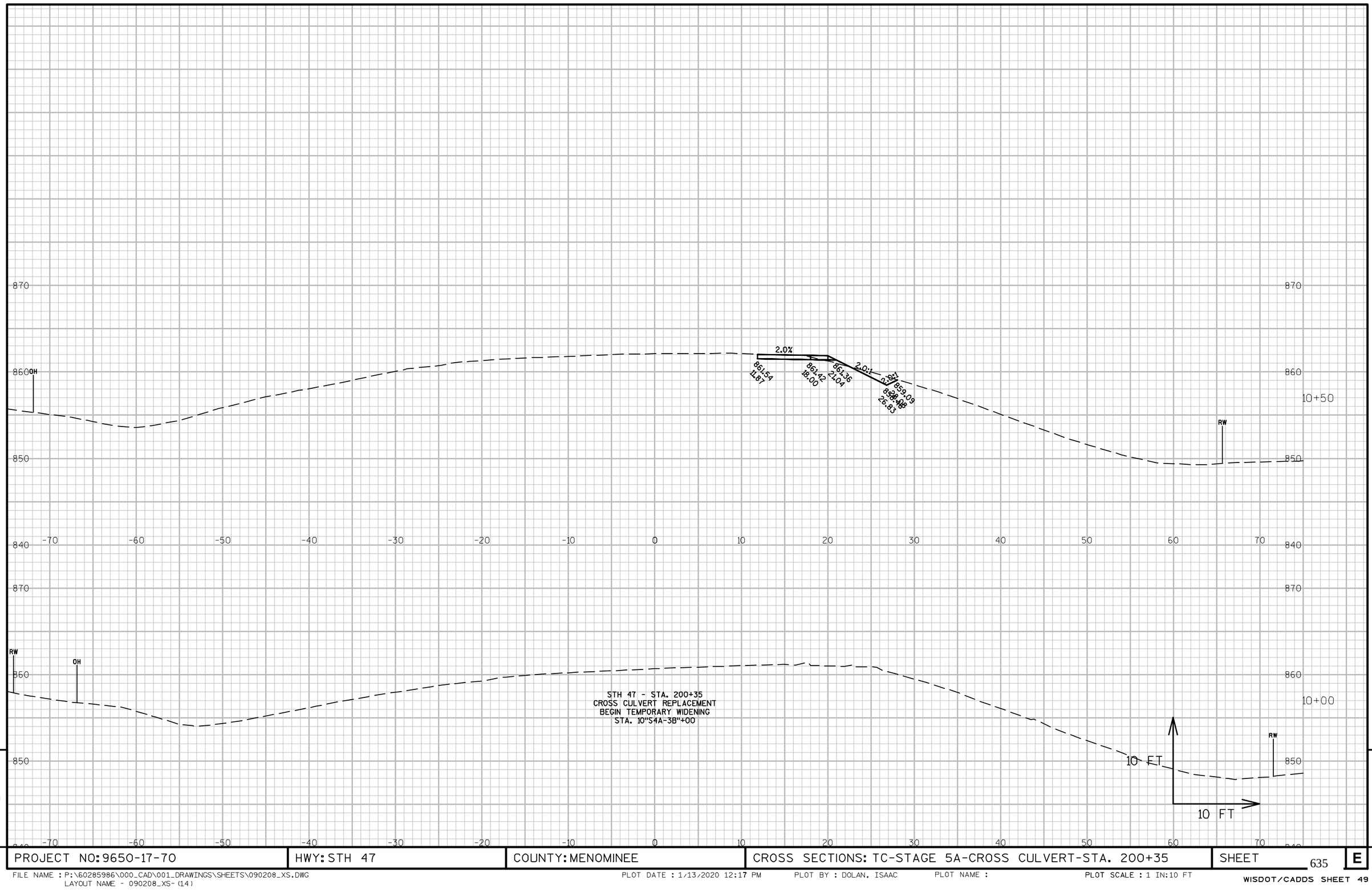
9

9

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: TC-STAGE 5A-CROSS CULVERT-STA. 200+35	SHEET 634	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090208_XS.DWG
LAYOUT NAME - 090208_XS-(13)

PLOT DATE : 1/13/2020 12:17 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1 IN:10 FT

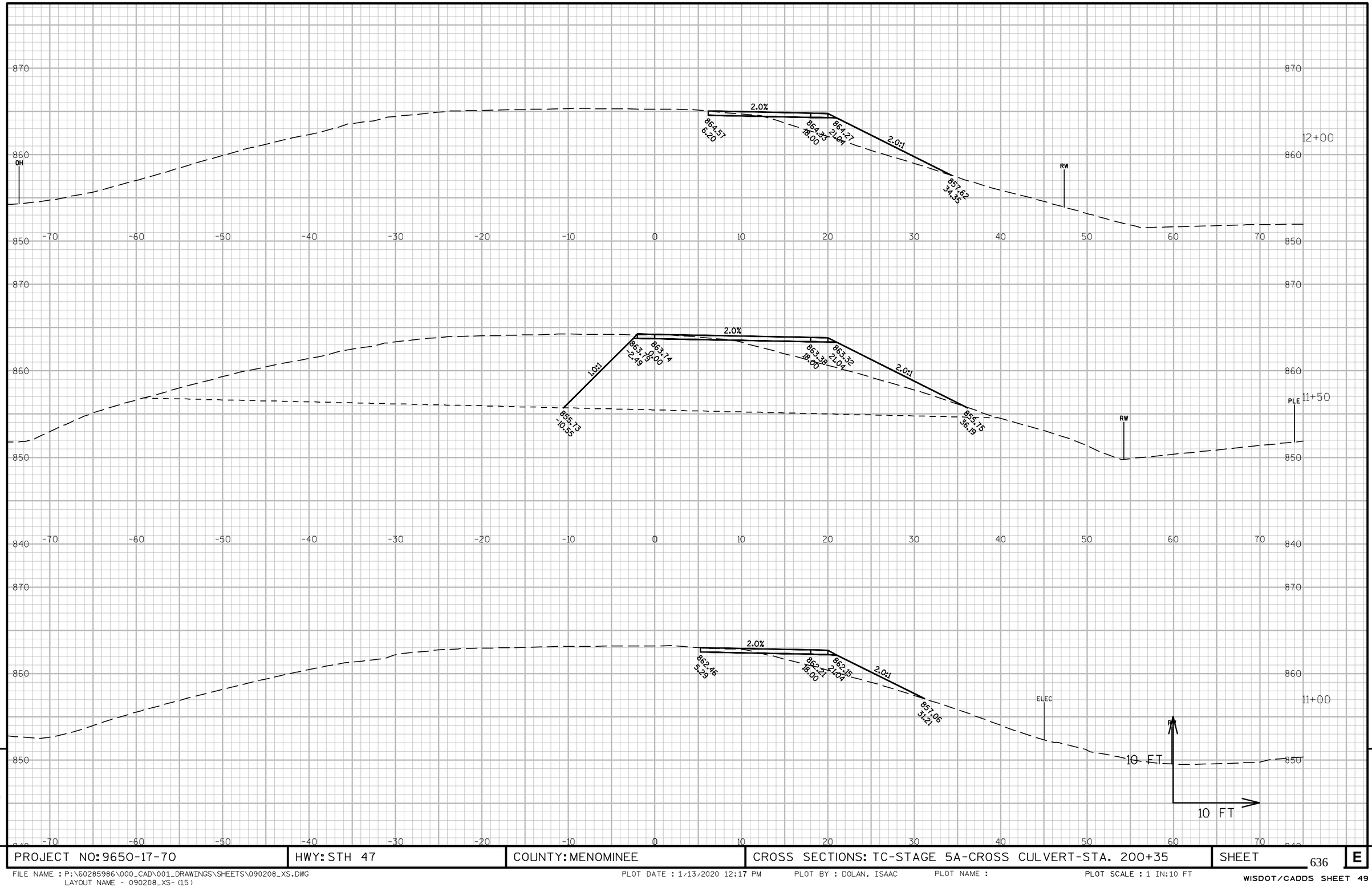


9

9

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: TC-STAGE 5A-CROSS CULVERT-STA. 200+35	SHEET 635	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090208_XS.DWG
LAYOUT NAME - 090208_XS-(14)
PLOT DATE : 1/13/2020 12:17 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



9

9

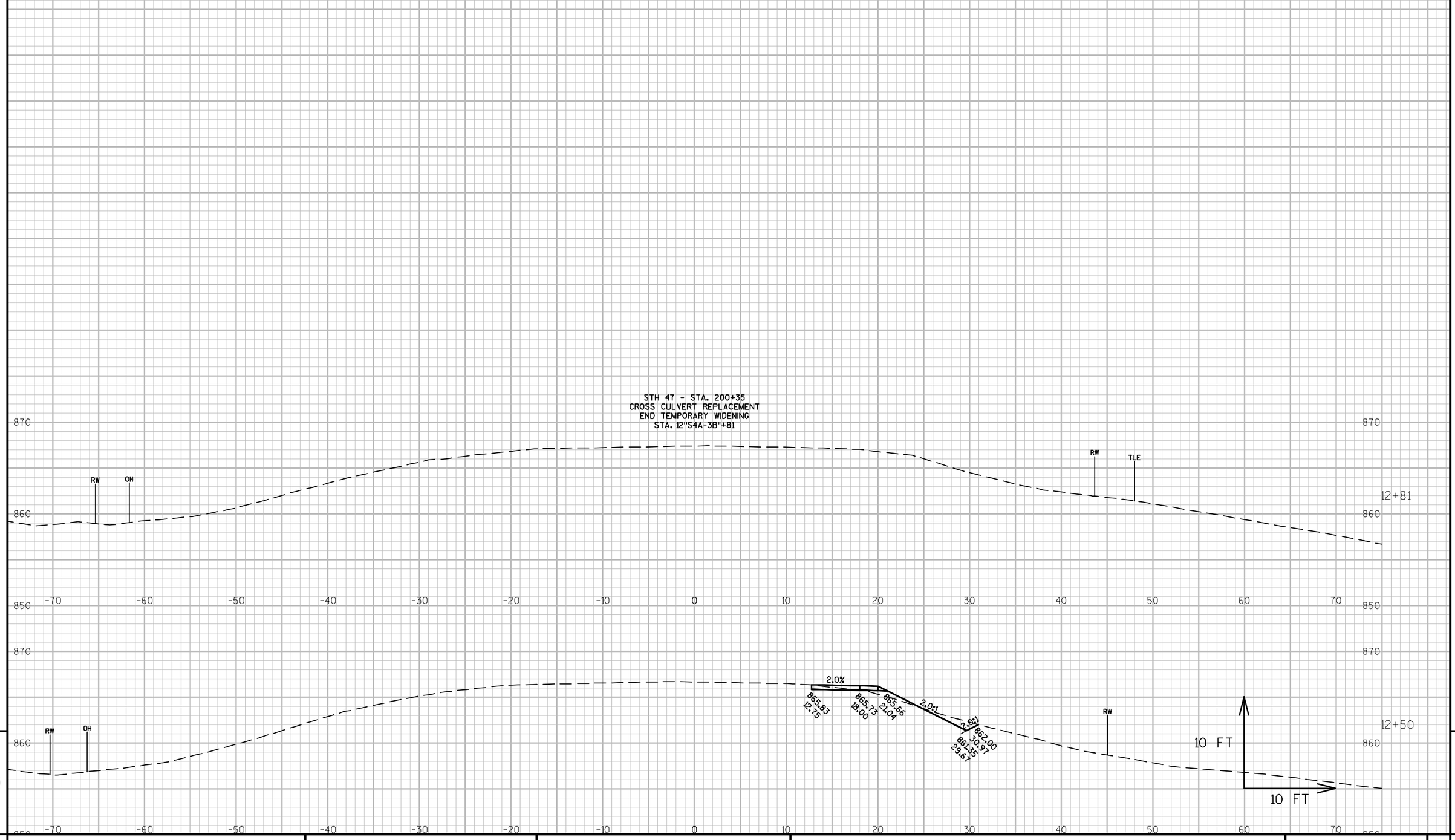
PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: TC-STAGE 5A-CROSS CULVERT-STA. 200+35	SHEET 636	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090208_XS.DWG
LAYOUT NAME - 090208_XS-(15)

PLOT DATE : 1/13/2020 12:17 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

STH 47 - STA. 200+35
CROSS CULVERT REPLACEMENT
END TEMPORARY WIDENING
STA. 12"S4A-3B"+81



9

9

PROJECT NO: 9650-17-70	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: TC-STAGE 5A-CROSS CULVERT-STA. 200+35	SHEET 637	E

FILE NAME : P:\60285986\000_CAD\001_DRAWINGS\SHEETS\090208_XS.DWG
LAYOUT NAME - 090208_XS-(16)

PLOT DATE : 1/13/2020 12:17 PM PLOT BY : DOLAN, ISAAC PLOT NAME : PLOT SCALE : 1 IN:10 FT

Wisconsin Department of Transportation

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