RHI

APRIL 2018

PROJECT ID: 9650-17-71/9650-17-72

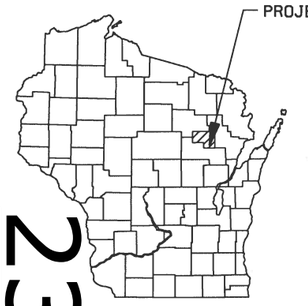
WITH: N/A

COUNTY: MENOMINEE

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details (Includes Erosion Control Plan)
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 = 508



23

DESIGN DESIGNATION

A.A.D.T. (2012)	=	6,800 VPD
A.A.D.T. (2032)	=	9,600 VPD
D.H.V. (2032)	=	1,008
D.D.	=	62/38
T.	=	4.0%
DESIGN SPEED	=	40
ESALS	=	700,800

CONVENTIONAL SYMBOLS

PLAN

- CORPORATE LIMITS
- PROPERTY LINE (PL + 58.1)
- 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

- OVERHEAD UTILITIES (OH)
- 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
9650-17-71	WISC 2018162	1
9650-17-72	———	———

SHAWANO - NEOPIT

SHAWANO CO LINE TO DUQUAINE ROAD

STH 47

MENOMINEE COUNTY

STATE PROJECT NUMBER

9650-17-71

SHAWANO - NEOPIT

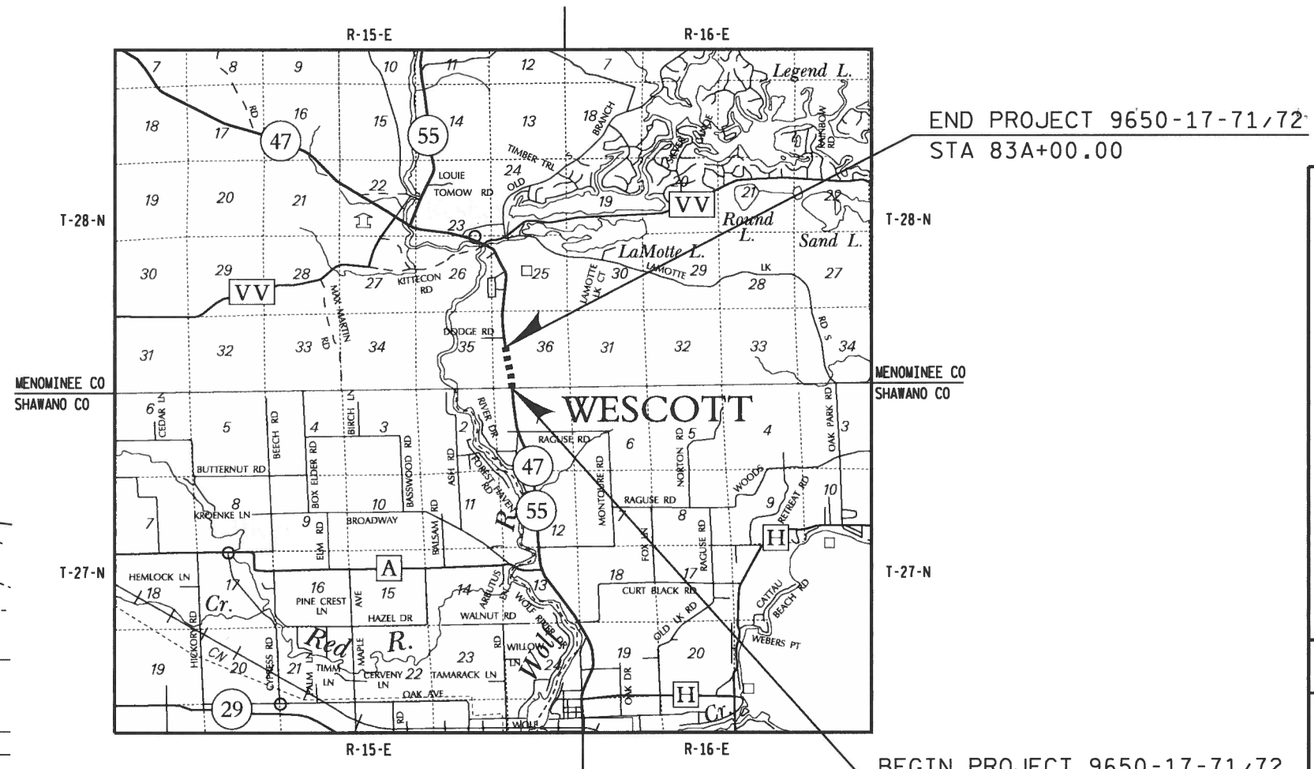
SHAWANO CO LINE TO DUQUAINE ROAD

STH 47

MENOMINEE COUNTY

STATE PROJECT NUMBER

9650-17-72



END PROJECT 9650-17-71/72
STA 83A+00.00

BEGIN PROJECT 9650-17-71/72
STA 48A+63.00
Y=50925.620
X=291411.975

LAYOUT
SCALE 0 1 MI.

TOTAL NET LENGTH OF CENTERLINE = 0.651 MI.

ELEVATIONS ON THIS PLAN ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD 88).

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), MENOMINEE COUNTY NAD 83 (1991).

ORIGINAL PLANS PREPARED BY

AECOM

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

10/26/17 (Date) (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	AECOM
Designer	AECOM
Project Manager	JIM VOLKMANN
Regional Examiner	CHERYL SIMON
Regional Supervisor	ANNA WISNER

APPROVED FOR THE DEPARTMENT

DATE: 10/26/17 (Signature)

E

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. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE ALL UTILITIES LOCATED BEFORE EXCAVATION.

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.

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.

INDEX OF TYPICAL SECTION AND DETAIL SHEETS

- GENERAL NOTES
- PROJECT OVERVIEW
- TYPICAL SECTIONS
- LAYOUT
- PAVING GRADES
- EROSION CONTROL
- STORM SEWER
- UTILITY IMPROVEMENTS
- LIGHTING
- PERMANENT SIGNING AND PAVEMENT MARKINGS
- TRAFFIC CONTROL
- ALIGNMENT DIAGRAM

UTILITY CONTACTS

TELEPHONE
FRONTIER COMMUNICATIONS
26 WEST 12TH STREET
CLINTONVILLE, WI 54929
715-823-1227
ATTN: JAMES JASKOLSKI
Email: James.Jaskolski@ftr.com

WATER & SANITARY
MITW UTILITIES
PO BOX 250
KESHENA, WI 54135
715-799-3587
ATTN: MARLIN WAUPOOSE
Email: mwaupoose@mitw.org

ELECTRIC:
WISCONSIN POWER AND LIGHT COMPANY
708 NE 7TH STREET
MARION, WI 54950
715-754-4323
ATTN: KENT SMITH
Email: kentsmith@alliantenergy.com

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

RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP								
	A			B			C		
	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
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50
MEDIAN STRIP-TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37
SIDE SLOPE-TURF			.25 .32			.27 .34			.28 .36
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 = 13.652 ACRES
- TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 10.736 ACRES

MENOMINEE TRIBAL CONTACTS

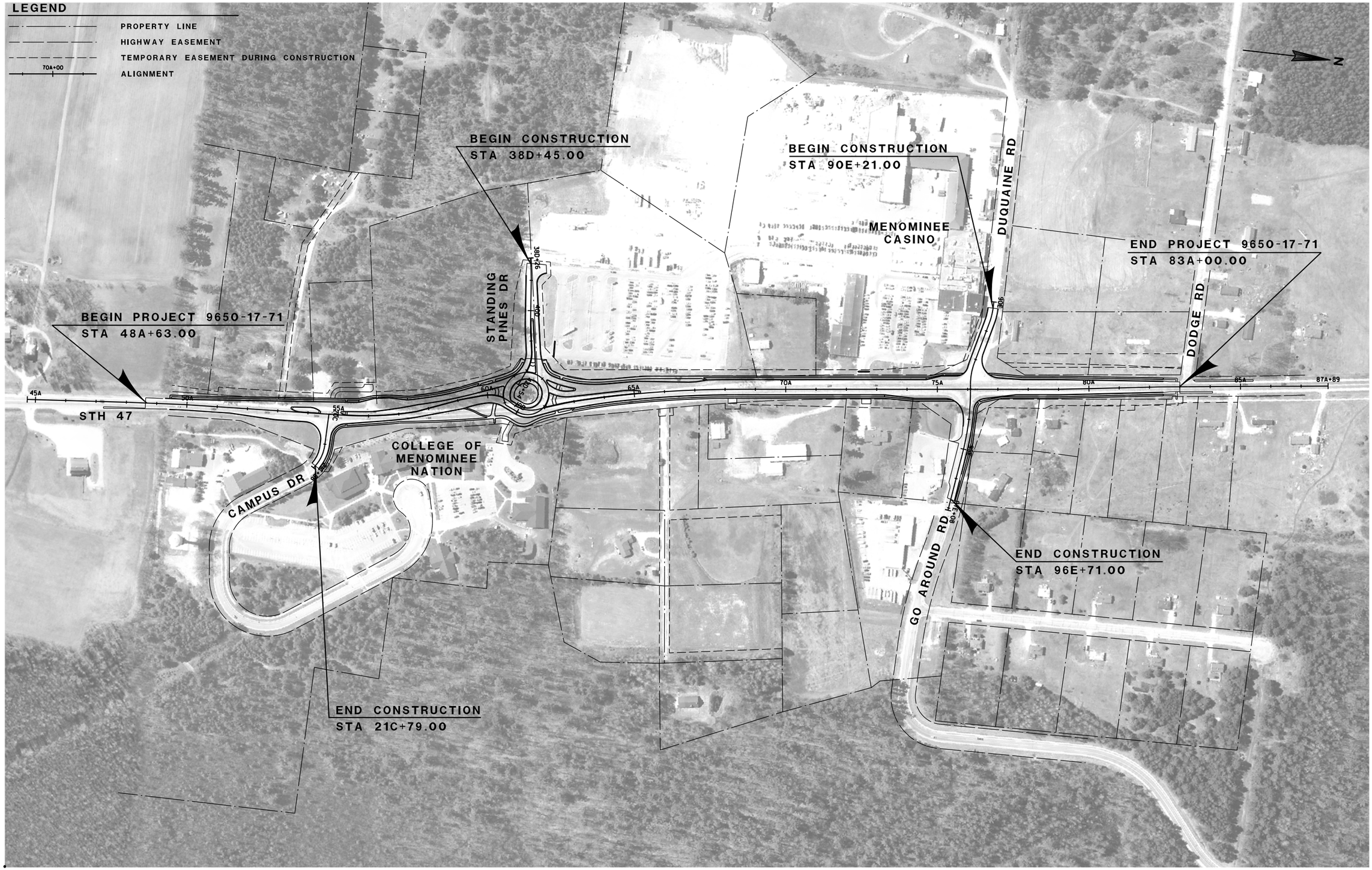
MENOMINEE INDIAN TRIBE OF WISCONSIN
COMMUNITY DEVELOPMENT
KEN KLEMENS
PO BOX 910
KESHENA, WI 54135
715-799-5148
EMAIL: kklemens@mitw.org

MENOMINEE INDIAN TRIBE OF WISCONSIN
TRIBAL HISTORICAL PRESERVATION OFFICER
DAVE GRIGNON
PO BOX 910
KESHENA, WI 54135
715-799-5258
EMAIL: dgrignon@mitw.org

DNR LIAISON

WISCONSIN DNR
JIM DOPERALSKI JR.
2984 SHAWANO AVE
GREEN BAY, WI 54313-6727
920-662-5119
EMAIL: james.doperalski@wisconsin.gov

2



PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	PROJECT OVERVIEW	SHEET 3	E

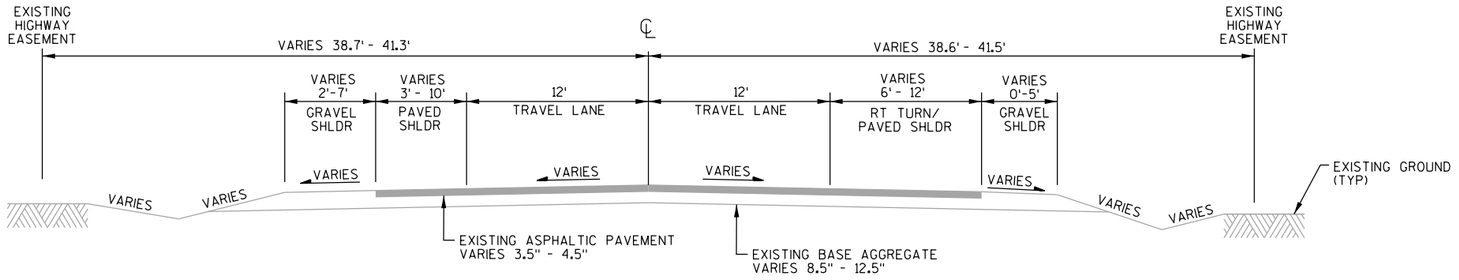
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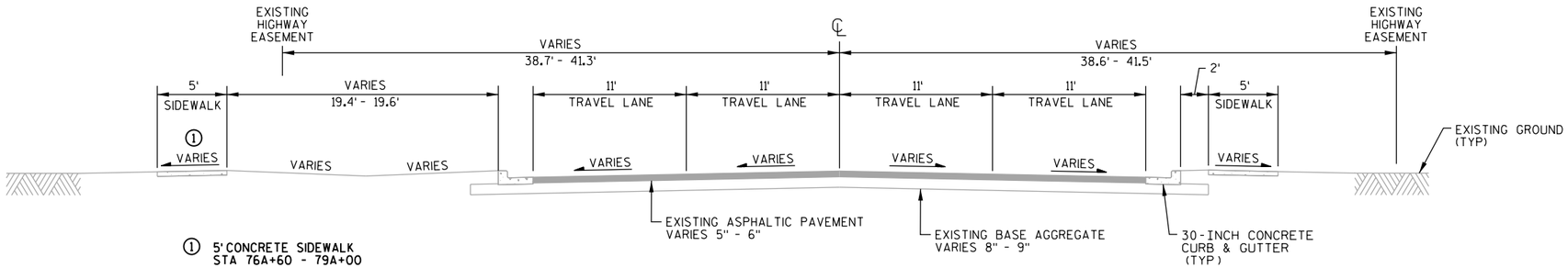
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WISDOT/CADDS SHEET 42



TYPICAL EXISTING SECTION - STH 47

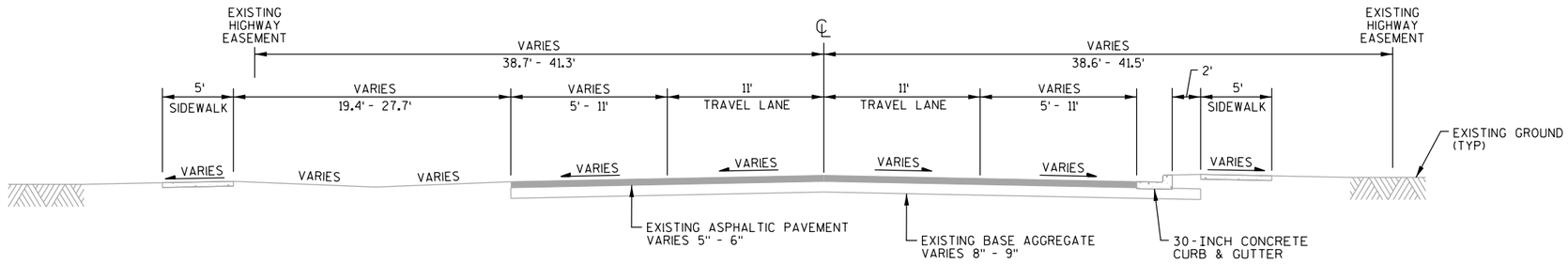
STA 48A+63 - STA 59A+75



① 5' CONCRETE SIDEWALK
STA 76A+60 - 79A+00

TYPICAL EXISTING SECTION - STH 47

STA 59A+75 - STA 79A+00



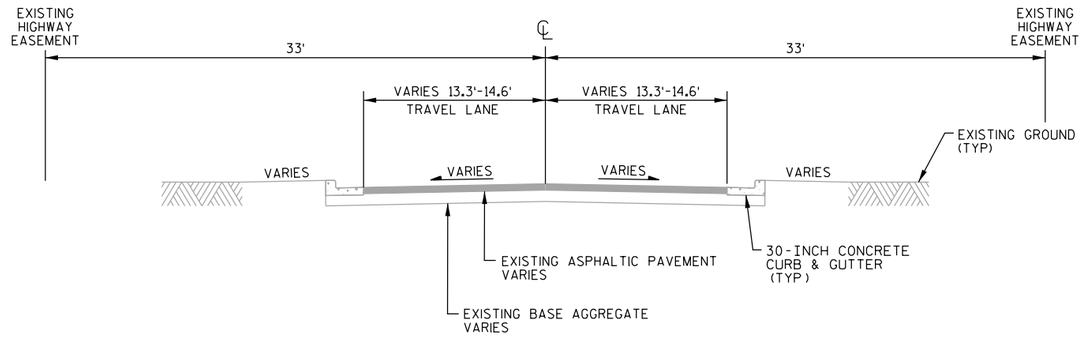
TYPICAL EXISTING SECTION - STH 47

STA 79A+00 - STA 83A+00

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TYPICAL SECTIONS	SHEET 4	E

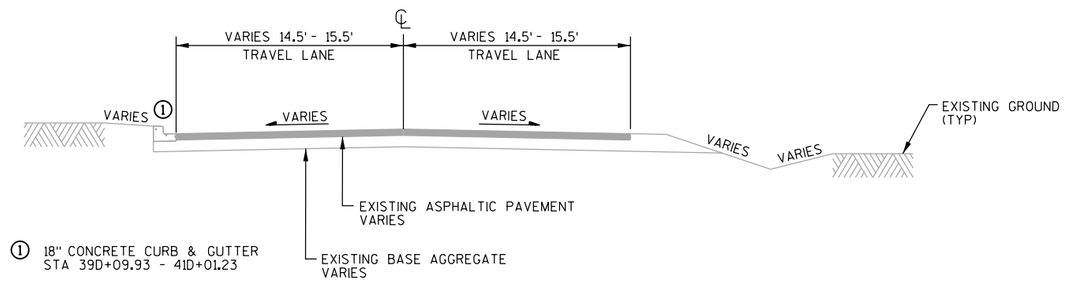
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2



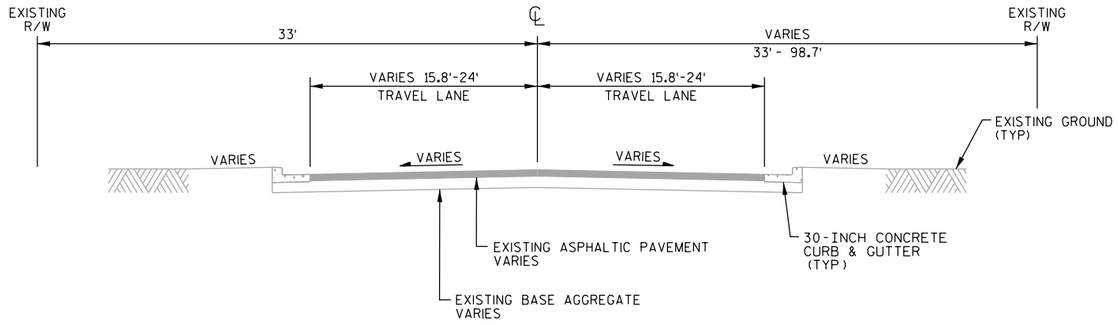
TYPICAL EXISTING SECTION - CAMPUS DRIVE

STA 20C+00 - STA 21C+79



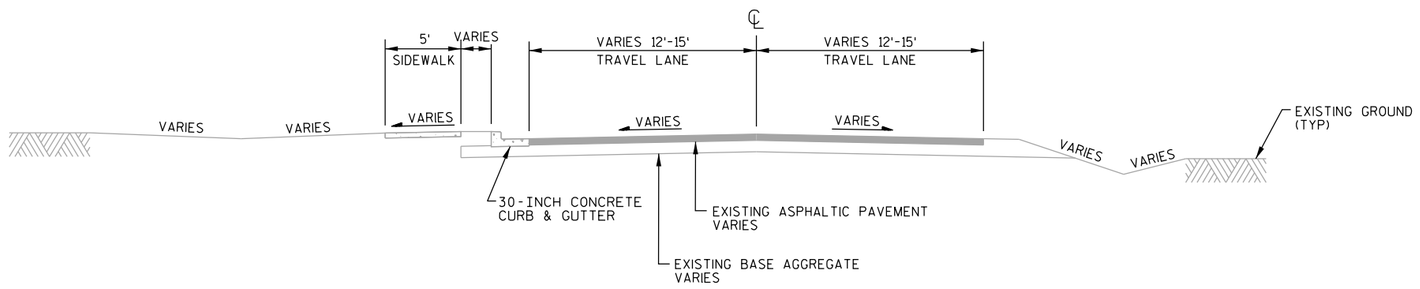
TYPICAL EXISTING SECTION - STANDING PINES DRIVE

STA 38D+45 - STA 42D+08



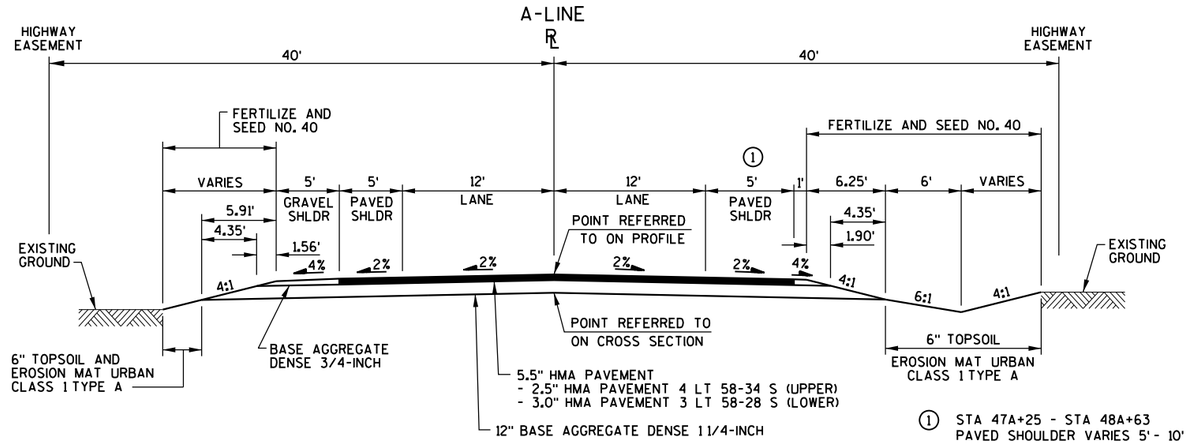
TYPICAL EXISTING SECTION - DUQUAINE ROAD

STA 90E+21 - STA 92E+93



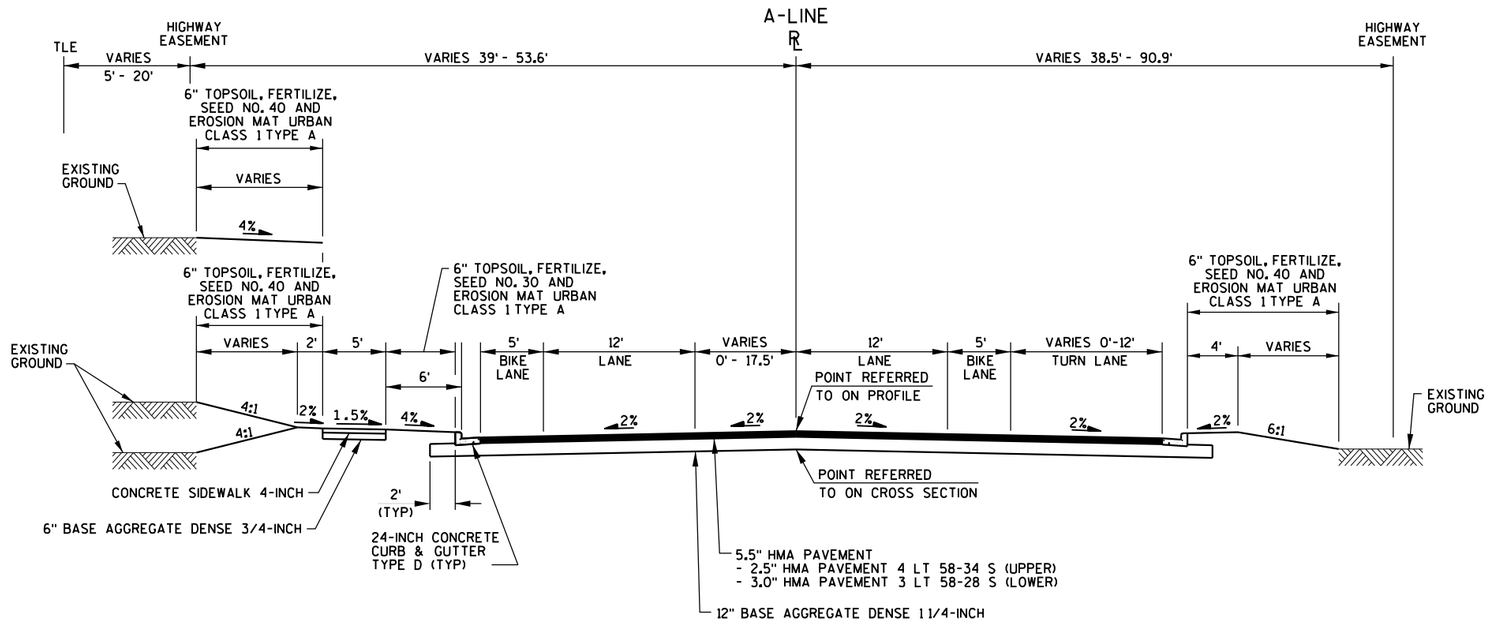
TYPICAL EXISTING SECTION - GO AROUND ROAD

STA 92E+93 - STA 96E+71



TYPICAL FINISHED SECTION - STH 47

STA 48A+63.00 - STA 49A+38.42

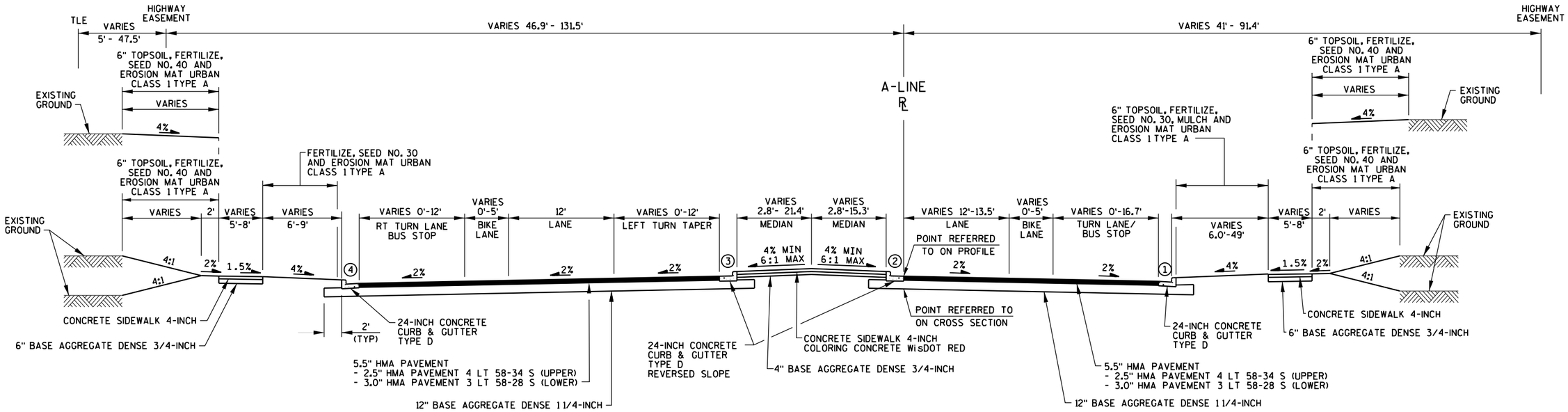


TYPICAL FINISHED SECTION - STH 47

STA 49A+38.42 - STA 53A+42.50

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WISDOT/CADDS SHEET 42



④ 30-INCH CONCRETE CURB AND GUTTER TYPE D
STA 60A+03.97 - 60A+52.04
STA 63A+11.44 - 65A+08.04

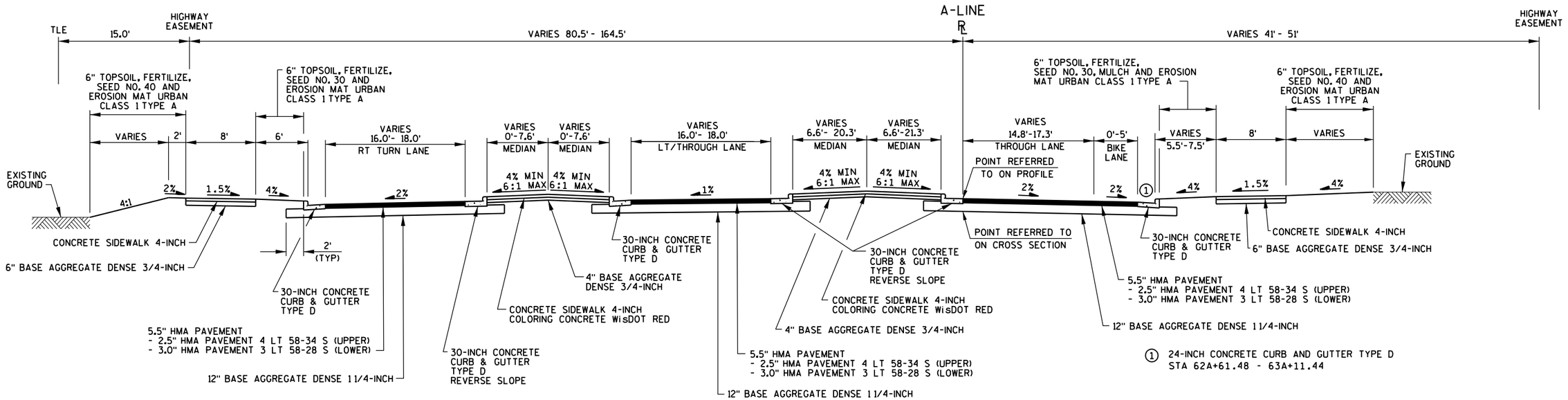
③ 30-INCH CONCRETE CURB AND GUTTER TYPE D REVERSED SLOPE
STA 59A+75.21 - 60A+52.04
STA 63A+11.44 - 65A-22.00

TYPICAL FINISHED SECTION - STH 47

STA 53A+42.50 - STA 60A+52.04
STA 63A+11.44 - STA 65A+22.00

② 30-INCH CONCRETE CURB AND GUTTER TYPE D REVERSED SLOPE
STA 59A+75.41 - 60A+52.04
STA 63A+11.44 - 65A-22.00

① 30-INCH CONCRETE CURB AND GUTTER TYPE D
STA 59A+15.87 - 60A+52.04
STA 63A+11.44 - 62A-61.48



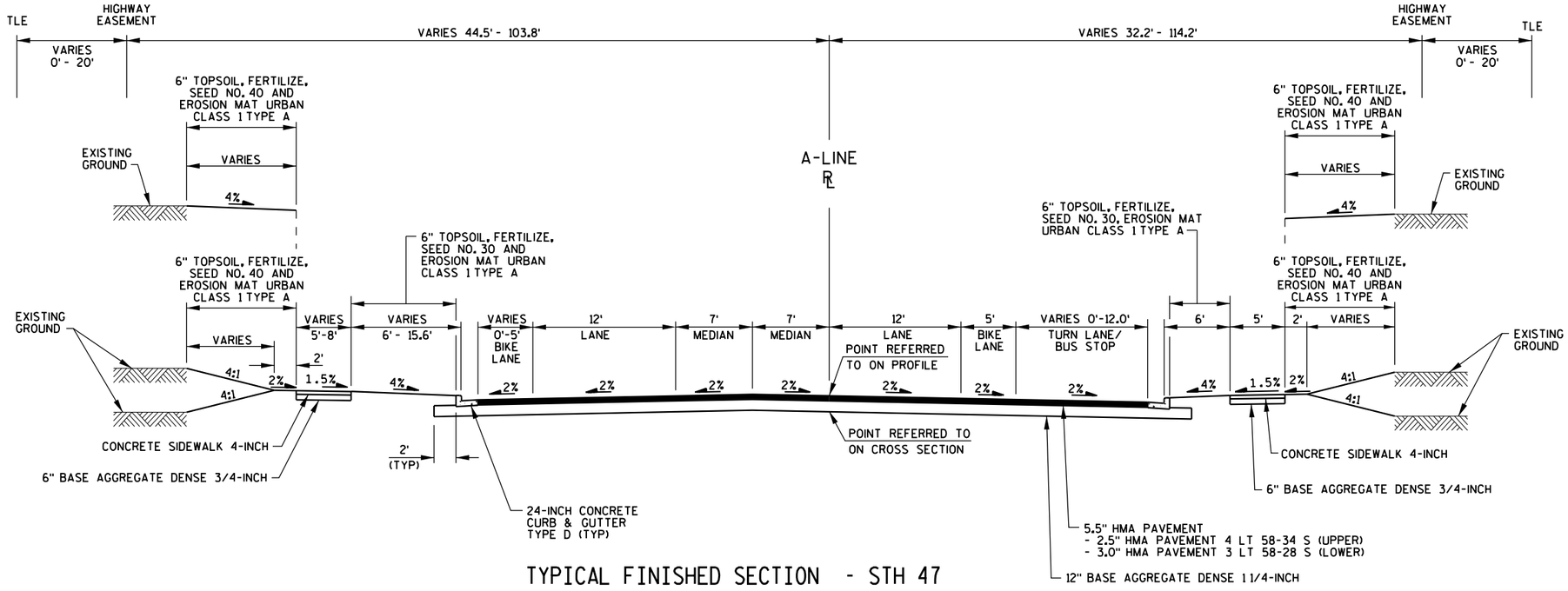
TYPICAL FINISHED SECTION - STH 47

STA 62A+04.68 - STA 63A+11.44

① 24-INCH CONCRETE CURB AND GUTTER TYPE D
STA 62A+61.48 - 63A+11.44

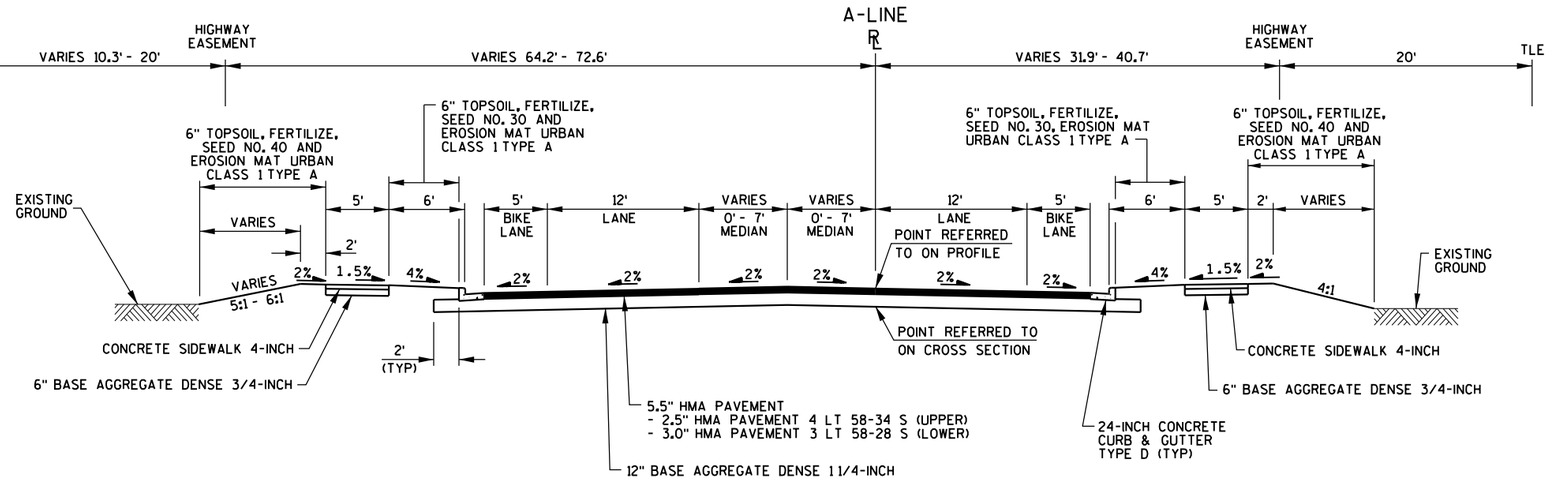
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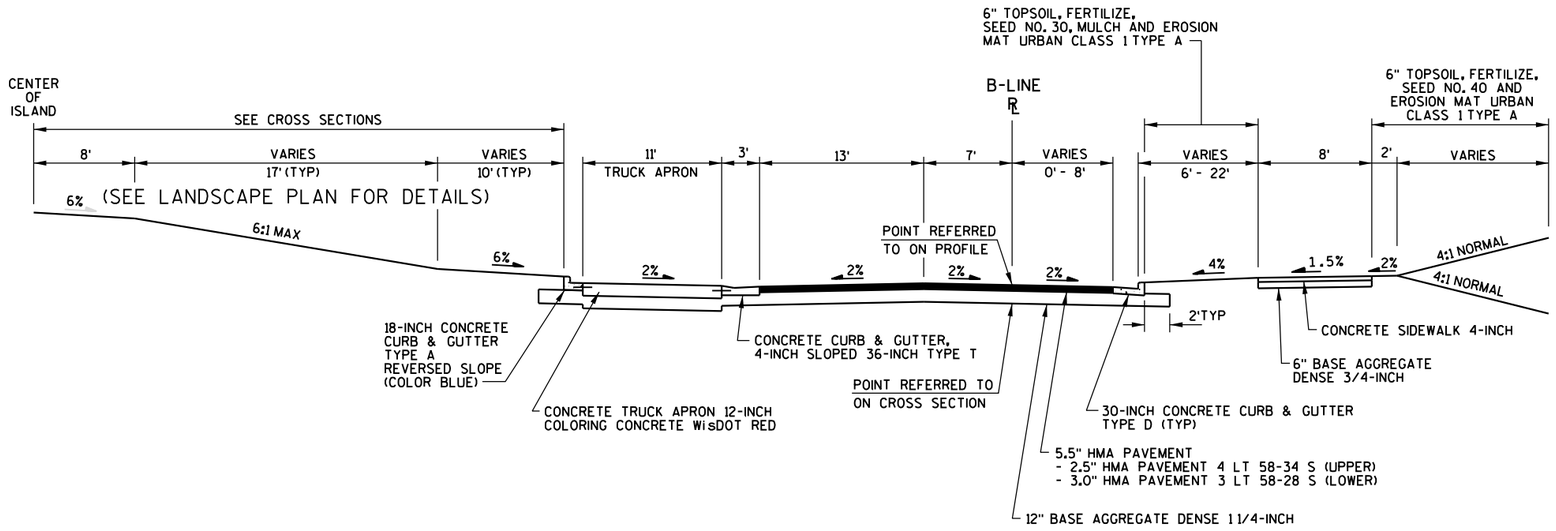
STA 65A+22.00 - STA 79A+01.50



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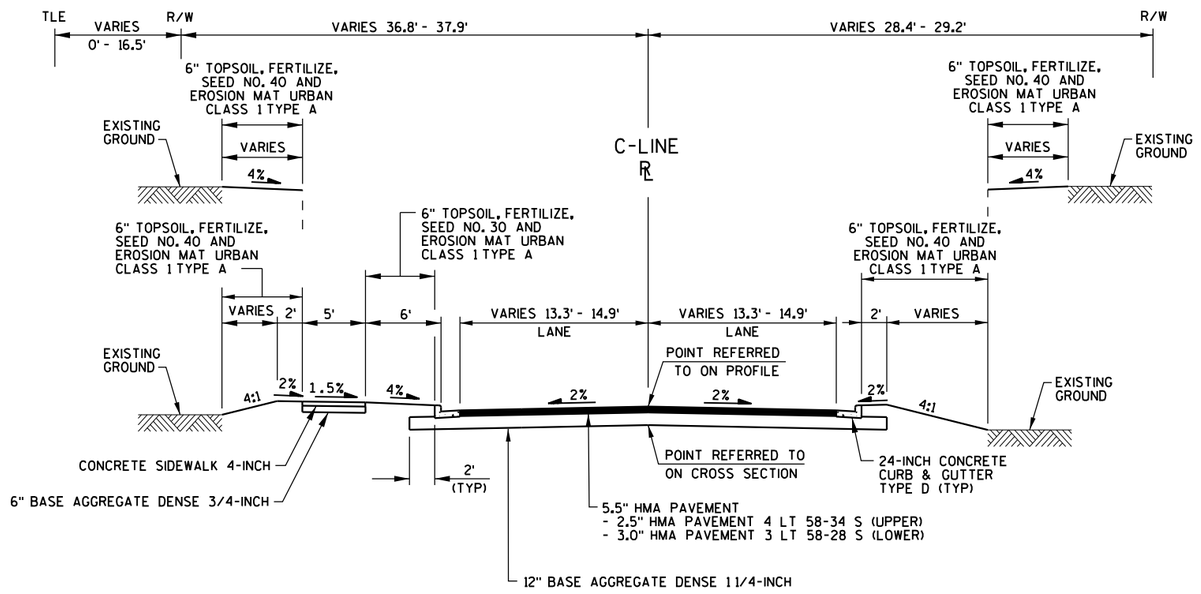
STA 79A+01.50 - STA 83A+00.00

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TYPICAL SECTIONS	SHEET 9	E



TYPICAL FINISHED SECTION - STH 47 RAB

STA 10B+00.00 - STA 14B+24.06

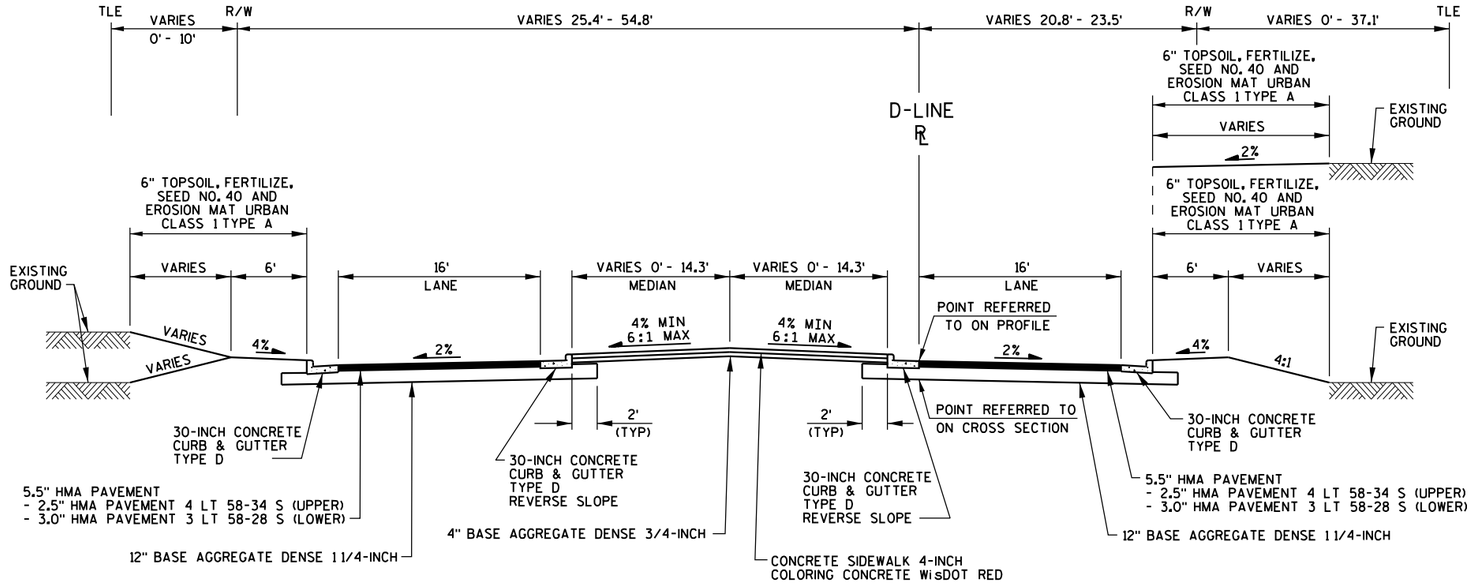


TYPICAL FINISHED SECTION - CAMPUS DRIVE

STA 20C+00 - STA 21C+79

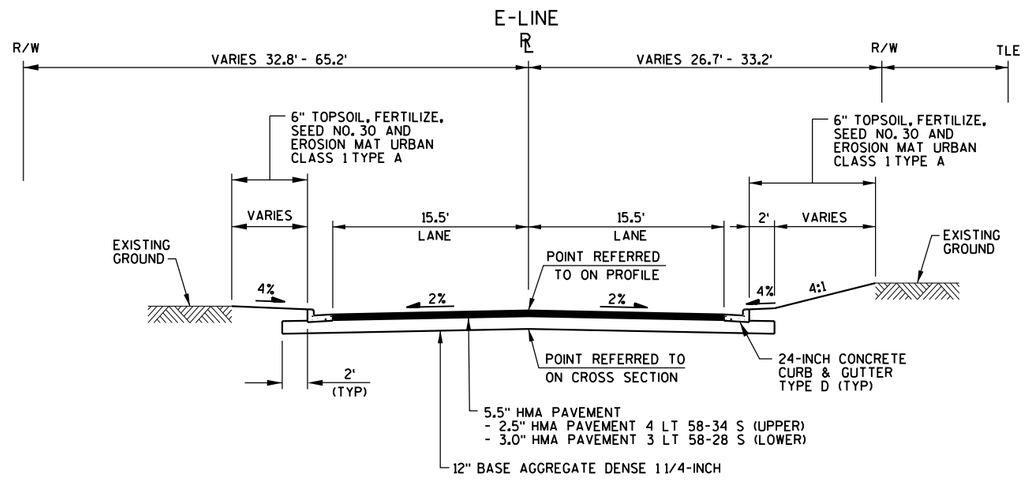
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WISDOT/CADDS SHEET 42



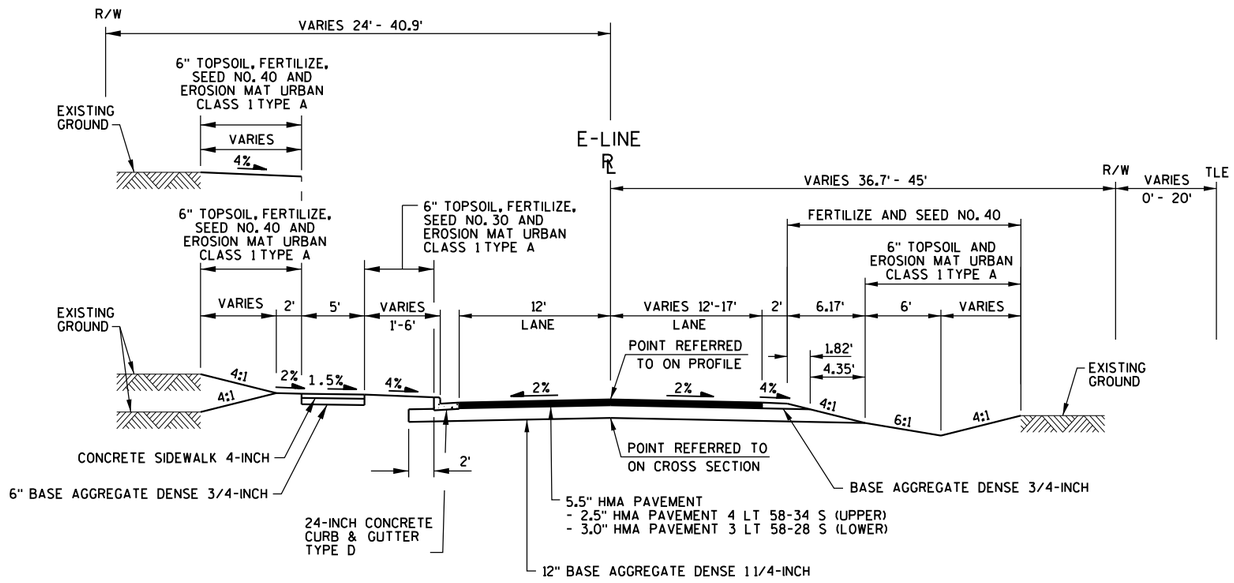
TYPICAL FINISHED SECTION - STANDING PINES DRIVE

STA 38D+45 - STA 42D+08



TYPICAL FINISHED SECTION - DUQUAINE ROAD

STA 90E+21 - STA 92E+63

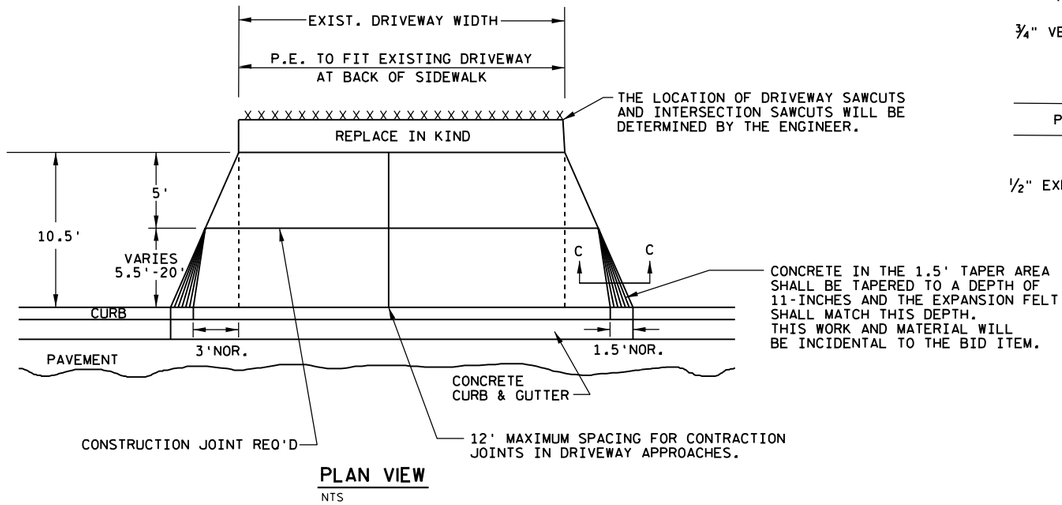


TYPICAL FINISHED SECTION - GO AROUND ROAD

STA 93E+00 - STA 96E+71

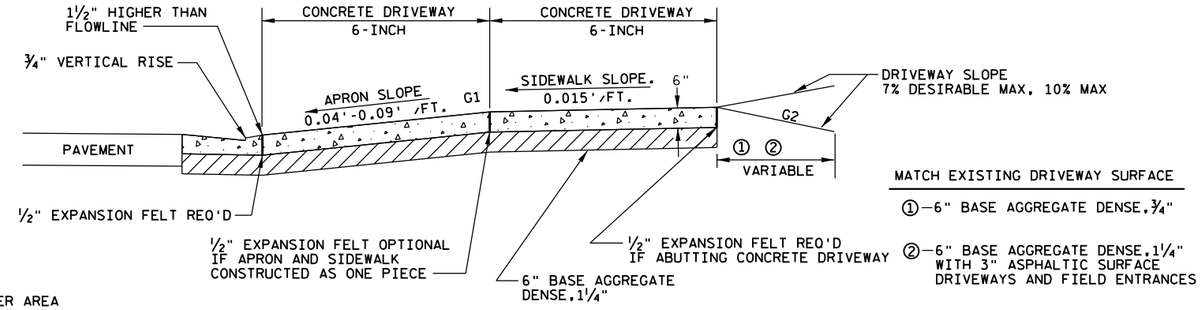
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WISDOT/CADDS SHEET 42



PLAN VIEW

NTS



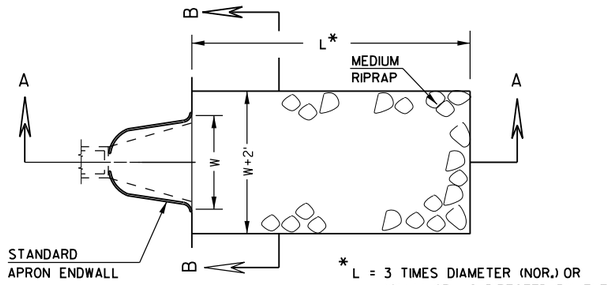
MATCH EXISTING DRIVEWAY SURFACE

①—6" BASE AGGREGATE DENSE,¾"

②—6" BASE AGGREGATE DENSE,1¼" WITH 3" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

NOTE: ALGEBRAIC DIFFERENCE BETWEEN TANGENT GRADES G1 & G2 TO NOT EXCEED 15%

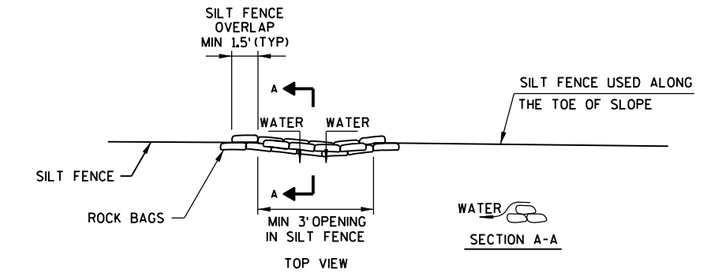
DEPRESS SIDEWALK PROFILE IF DRIVEWAY APRON EXCEEDS MAX SLOPE - SEE DETAIL



MEDIUM RIPRAP AND GEOTEXTILE

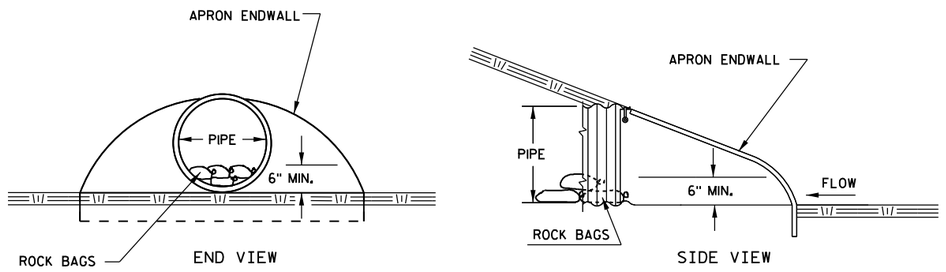
DETAIL AT APRON ENDWALLS

NTS



ROCK BAGS USED FOR SILT FENCE RELIEF DETAIL

PAID AS ROCK BAGS



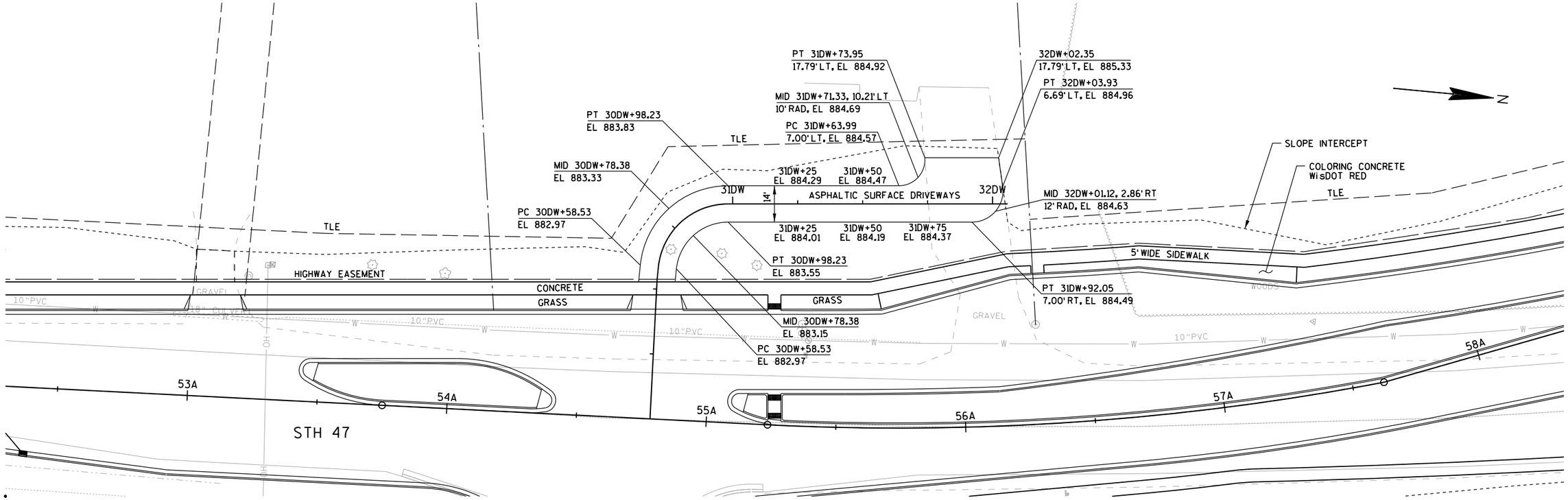
CULVERT PIPE CHECK

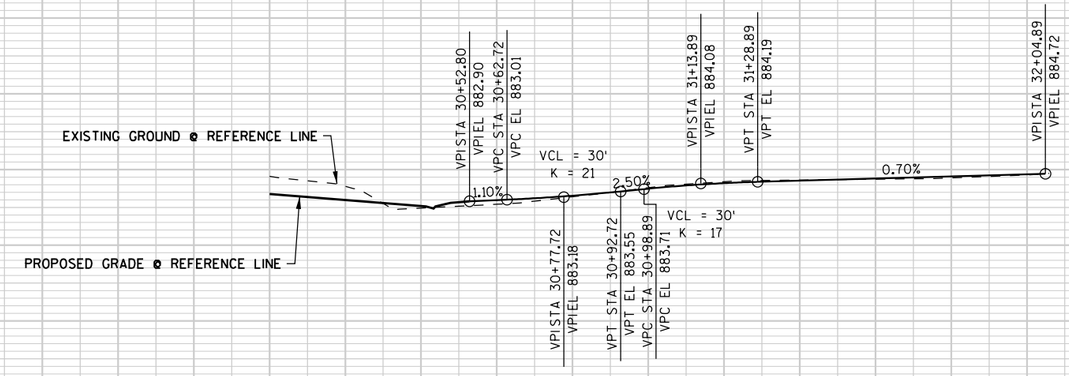
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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CONSTRUCTION DETAILS	SHEET 12	E

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PLOT TIME: 2:30:47 PM
PLOT SCALE: 1:2
WISDOT/CADDS SHEET 42

2





PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	DRIVEWAY DETAIL	SHEET 13	E

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PLOT DATE: 11/1/2017
PLOT TIME: 6:54:44 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 40

LEGEND: LANDSCAPING

4" STONE MULCH EPOXIED (BLUE RIVER ROCK) WITH WEED BARRIER FABRIC UNDERNEATH

JUNIPER, CREEPING AT 10' SPACING EACH WAY, 4" DARK BROWN SHREDDED WOOD MULCH WITH WEED BARRIER FABRIC UNDERNEATH

N

18-INCH CONCRETE CURB & GUTTER TYPE A REVERSED SLOPE (COLOR BLUE)

BRICK PAVERS MORTARED (SEE DETAIL THIS SHEET)

STANDING PINES DRIVE

STH 47

60A

14B

61A

10B

14+53

12B

13B

42

41

61B

62A

WOODS

MULCH

4"

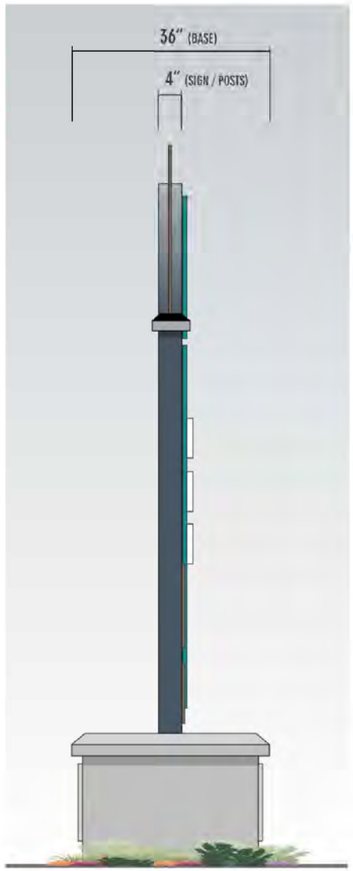
8"

BRICK PAVERS MORTARED (SEE DETAIL)

4" STONE MULCH EPOXIED (BLUE RIVER ROCK)

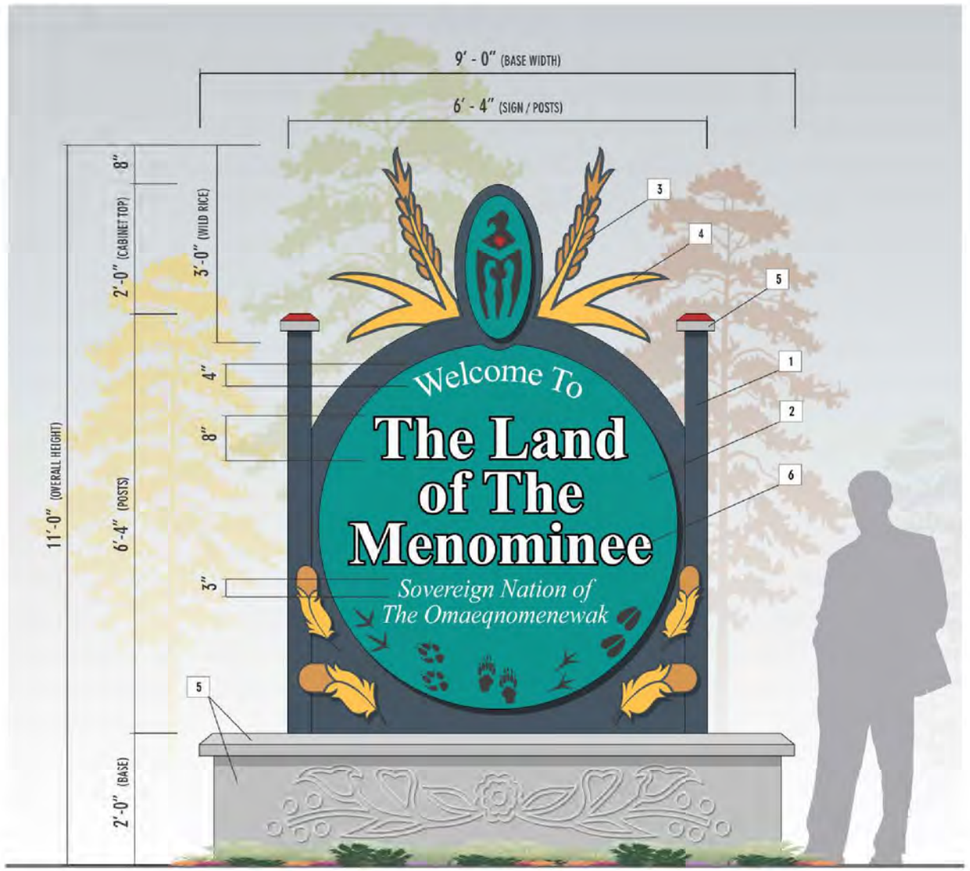
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PLOT TIME: 6:54:47 AM
PLOT SCALE: 1:20
WISDOT/CADDS SHEET 42



SIDE VIEW

DETAIL VIEW



SCALE:	½" = 1' 0"

FABRICATE & INSTALL ONE(1) D/F NON-LIT GROUND SIGN

- ALUMINUM SIGN CABINET; FORMED TO SHAPE
- SIGNFOAM FACE PANELS WITH PAINTED AND VINYL GRAPHICS
- ALUMINUM TUBE SUPPORTS w/ BEVELED TOPPERS
- FLAT CUT FEATHERS AND WILD RICE GRAPHIC
- ALUMINUM BASE WITH FLAT CUT FLORAL PATTERN

CLIENT:	MENOMINEE INDIAN TRIBE OF WI
STREET ADDRESS:	W2794 GO AROUND RD
CITY / STATE:	KESHENA, WI
SCOPE:	WELCOME SIGN
DATE:	02/14/17

GENERAL SPECIFICATIONS	
VOLTAGE:	
POWER DRAW:	
SQUARE FOOTAGE:	

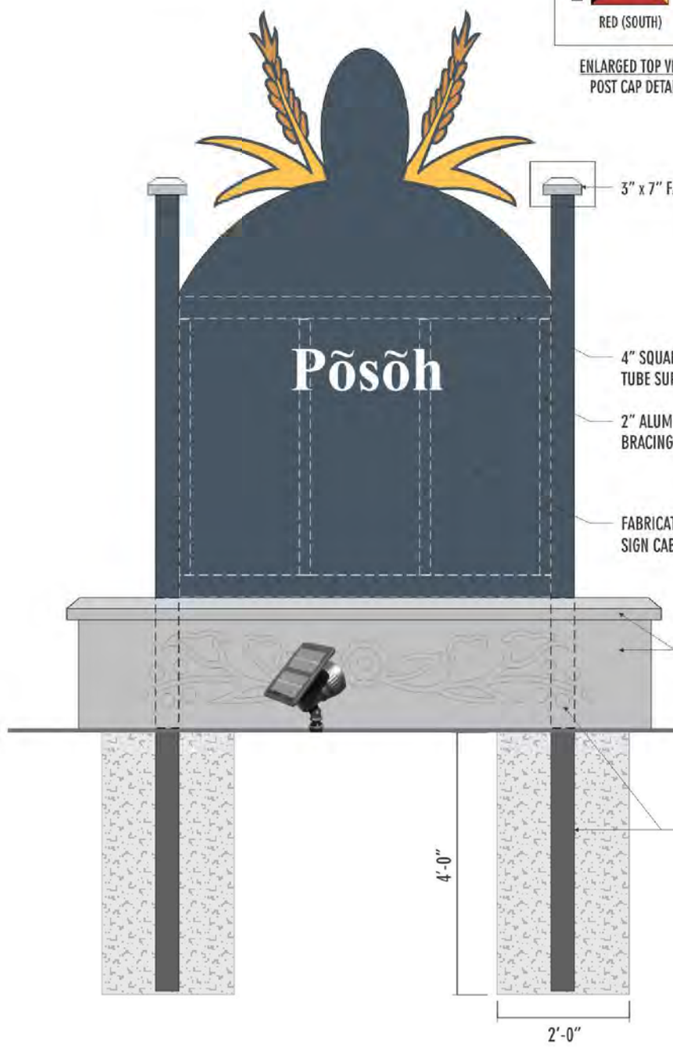
COLOR SCHEDULE		
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2		PAINT: MATCH PANTONE 321c
3		VINYL: ORACAL 751-824 IMITATION GOLD
4		VINYL: ORACAL 751-211 SUN YELLOW
5		PAINT: MATCH PANTONE COOL GRAY 6c
6		PAINT: MAP SATIN WHITE

REQUIRED ITEMS	
CLEAN ART?	
FIELD SURVEY?	
COLORS?	
MISC. ITEMS ?	

REVISION SCHEDULE	

1

BACK VIEW

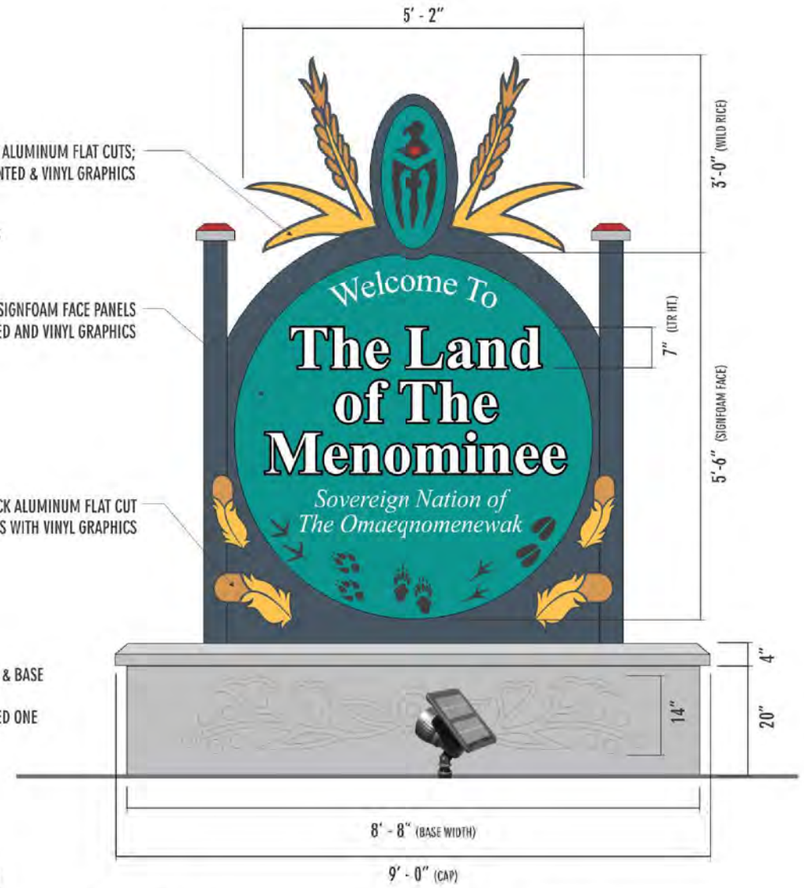




ENLARGED TOP VIEW
POST CAP DETAIL

3" x 7" FABRICATED ALUMINUM POST CAPS

FRONT VIEW





TWO(2) 10" x 12" SUPER HIGH INTENSITY SOLAR SPOT LIGHTS FOR ILLUMINATING FRONT & BACK OF SIGN

SCALE: ½" = 1' 0"

CLIENT:	MENOMINEE INDIAN TRIBE OF WI
STREET ADDRESS:	W2794 GO AROUND RD
CITY / STATE:	KESHENA, WI
SCOPE:	WELCOME SIGN
DATE:	02/14/17

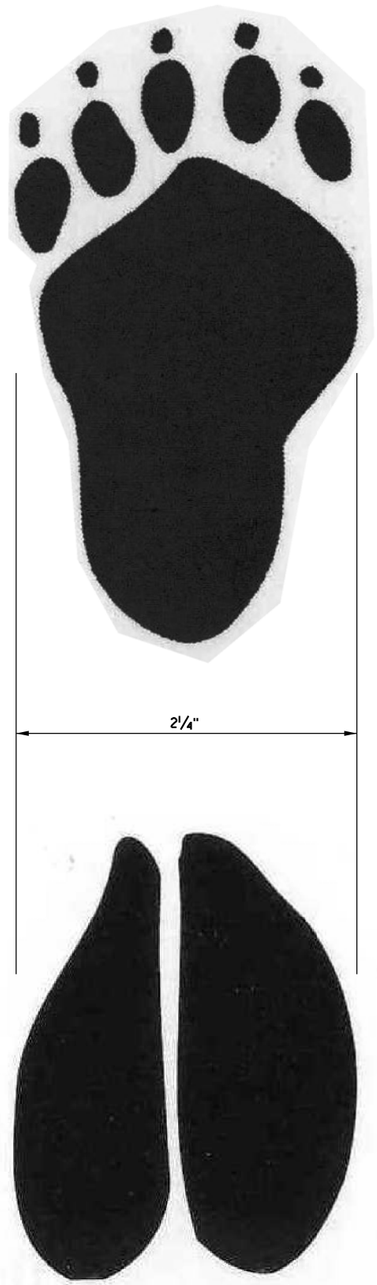
GENERAL SPECIFICATIONS	
VOLTAGE:	
POWER DRAW:	
SQUARE FOOTAGE:	

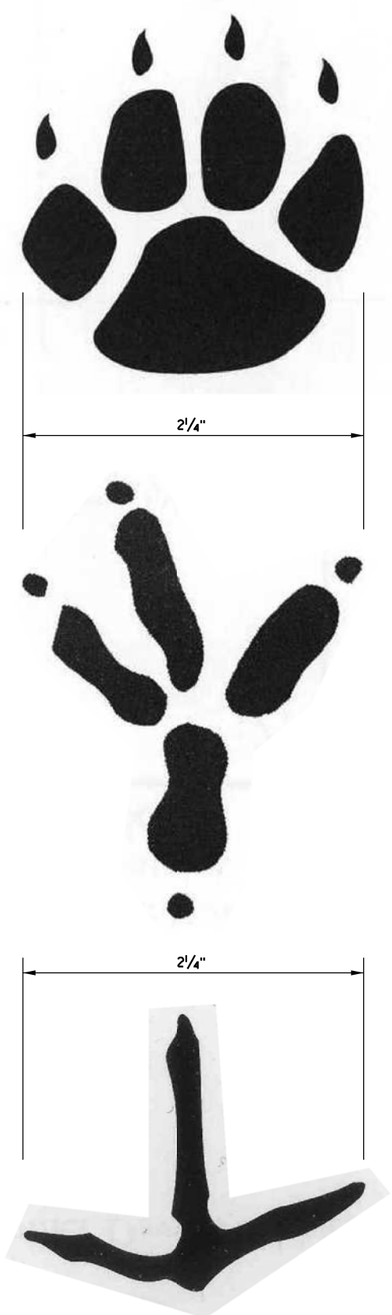
COLOR SCHEDULE		
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2		PAINT: MATCH PANTONE 321c
3		VINYL: ORACAL 751-824 IMITATION GOLD
4		VINYL: ORACAL 751-211 SUN YELLOW
5		PAINT: MATCH PANTONE COOL GRAY 6c
6		PAINT: MAP SATIN WHITE

REQUIRED ITEMS	
CLEAN ART?	
FIELD SURVEY?	
COLORS?	
MISC. ITEMS ?	

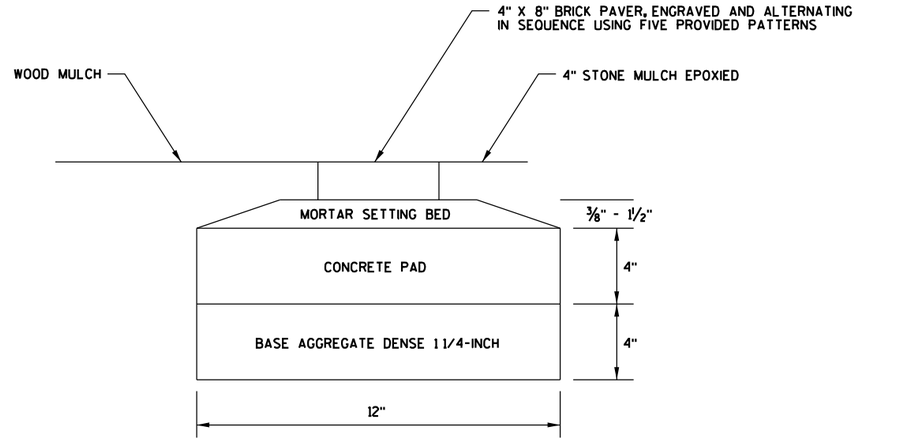
REVISION SCHEDULE	

2



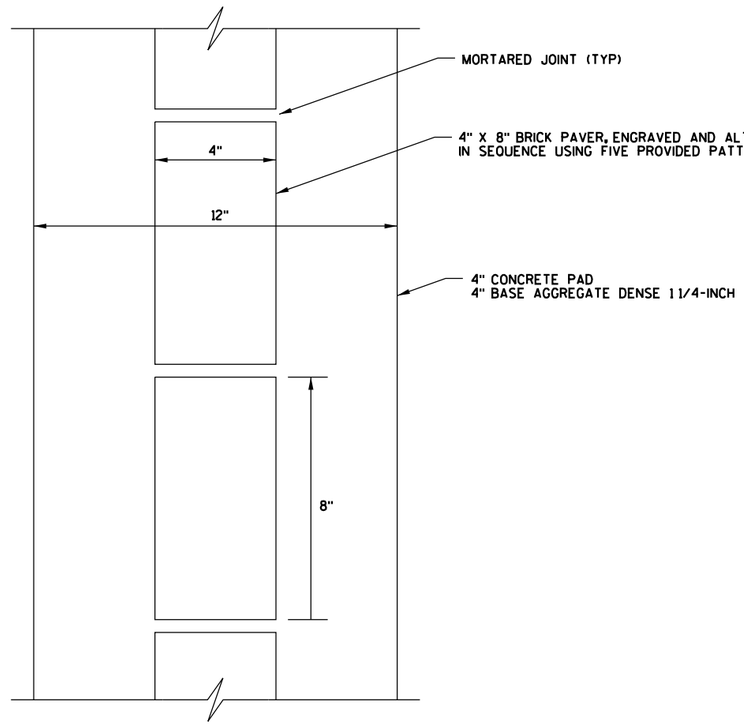


BRICK PAVER ENGRAVING PATTERNS



PROFILE VIEW

NOTE:
ENGRAVE EACH BRICK PAVER WITH ONE OF THE FIVE PATTERNS IN THE MIDDLE OF THE RICKPAVER. INSTALL BRICKS IN SEQUENCE A, B, C, D, E, A, B, C, D, E, ETC.



PLAN VIEW

BRICK PAVER CONSTRUCTION

2

2

N

WATER
(MITW UTILITIES)

TELEPHONE
(FRONTIER COMMUNICATIONS)

TLE

REMOVE SMALL PIPE CULVERT

CLEARING & GRUBBING (TYP)

TLE

18" CULVERT

GRAVEL

10"PVC

18" CULVERT

GRAVEL

10"PVC

18" CULVERT

REMOVE SMALL PIPE CULVERT

REMOVE SMALL PIPE CULVERT

48A

49A

50A

51A

52A

53A

STH 47

OVERHEAD ELECTRIC
(WISCONSIN POWER AND
LIGHT COMPANY)

MATCHLINE STA. 53A+50

HIGHWAY EASEMENT

WOODS

BEGIN PROJECT 9650-17-71

STA 48A+63.00

MATCH EXISTING - SAWCUT REQUIRED

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	REMOVALS	SHEET 18	E

2

2

N

MATCHLINE STA. 53A+50

MATCHLINE STA. 59A+50

CLEARING & GRUBBING (TYP)

TLE

SLOPE INTERCEPT

WATER
(MITW UTILITIES)

10"PVC

GRAVEL

CLEARING & GRUBBING (TYP)

TLE

HIGHWAY EASEMENT

WOODS

54A

55A

56A

57A

58A

59A

STH 47

REMOVE
CURB & GUTTER

TELEPHONE
(FRONTIER COMMUNICATIONS)

CAMPUS DR

REMOVE CURB & GUTTER

HIGHWAY EASEMENT

OVERHEAD ELECTRIC
(WISCONSIN POWER AND
LIGHT COMPANY)

SLOPE INTERCEPT

CONCRETE

FLOOD LIGHT

SLOPE INTERCEPT

OVERHEAD ELECTRIc
(WISCONSIN POWER AND
LIGHT COMPANY)

REMOVE CURB & GUTTER

HIGHWAY EASEMENT

WOODS

HIGHWAY EASEMENT

END CONSTRUCTION
STA 21C+79.00

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	REMOVALS	SHEET 19	E

2

N

STANDING PINES DRIVE

41D

42D

42D+54

12B

12A

CLEARING & GRUBBING (TYP)

TLE

CLEARING & GRUBBING (TYP)

SLOPE INTERCEPT

TLE

HIGHWAY EASEMENT

TELEPHONE
(FRONTIER COMMUNICATIONS)

ELECTRIC
(WISCONSIN POWER AND LIGHT COMPANY)

MATCHLINE STA. 59A+50

MATCHLINE STA. 65A+50

60A

14B

61A

10B

14+53

11B

62A

63A

64A

65A

10"PVC

W

SS

OH

WOODS

STH 47

OVERHEAD ELECTRIC
(WISCONSIN POWER AND LIGHT COMPANY)

REMOVE CURB & GUTTER

REMOVE CONCRETE SIDEWALK

REMOVE CURB & GUTTER

REMOVE CONCRETE SIDEWALK

5' CONC SIDEWALK

24" CULVERT

6" CULVERT

ASPHALT

HIGHWAY EASEMENT

SLOPE INTERCEPT

REMOVE SMALL PIPE CULVERT

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	REMOVALS	SHEET 20	E

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PLOT TIME: 8:56:15 AM
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WISDOT/CADDS SHEET 42

2

N

MATCHLINE STA. 65A+50

MATCHLINE STA. 71A+50

CLEARING & GRUBBING (TYP)

ASPHALT

TLE

CLEARING & GRUBBING (TYP)

HIGHWAY EASEMENT

OVERHEAD ELECTRIC
(WISCONSIN POWER AND LIGHT COMPANY)

ELECTRIC
(WISCONSIN POWER AND LIGHT COMPANY)

TELEPHONE
(FRONTIER COMMUNICATIONS)

WATER
(MITW UTILITIES)

WOODS

GRAVEL

15" CULVERT

10"PVC

10"HDPE

REMOVE SMALL PIPE CULVERT

REMOVE CURB & GUTTER

STH 47

66A

67A

68A

69A

70A

71A

REMOVE CURB & GUTTER

CULVERT TO REMAIN

5' CONC SIDEWALK

15" CULVERT

HIGHWAY EASEMENT

TLE

SLOPE INTERCEPT

REMOVE CONCRETE SIDEWALK

ASPHALT

GRAVEL

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	REMOVALS	SHEET 21	E

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PLOT TIME: 8:56:17 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

N

MATCHLINE STA. 71A+50

MATCHLINE STA. 77A+50

ELECTRIC
(WISCONSIN POWER AND LIGHT COMPANY)

TELEPHONE
(FRONTIER COMMUNICATIONS)

WATER
(MITW UTILITIES)

SANITARY
(MITW UTILITIES)

SLOPE INTERCEPT

TLE

HIGHWAY EASEMENT

DUQUAINE RD

REMOVE CONCRETE SIDEWALK

REMOVE CURB AND GUTTER

REMOVE CURB AND GUTTER

STH 47

OVERHEAD ELECTRIC
(WISCONSIN POWER AND LIGHT COMPANY)

REMOVE CURB AND GUTTER

72A

73A

74A

75A

76A

77A

326

REMOVE SMALL PIPE CULVERT

REMOVE SMALL PIPE CULVERT

REMOVE CONCRETE SIDEWALK

5' CONC SIDEWALK

18" CULVERT

18" CULVERT

CLEARING & GRUBBING (TYP)

TLE

SLOPE INTERCEPT

ASPHALT

CONCRETE

CONCRETE

24" CULVERT

HIGHWAY EASEMENT

24" CULVERT

24" CULVERT

GO AROUND RD

5' CONC SIDEWALK

946

18" CULVERT

HIGHWAY EASEMENT

TLE

SLOPE INTERCEPT

CLEARING & GRUBBING (TYP)

REMOVE CONCRETE SIDEWALK

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	REMOVALS	SHEET 22	E

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WISDOT/CADDS SHEET 42

2

2

MATCHLINE STA. 77A+50

N

WATER
(MITW UTILITIES)

TLE

PLE

OVERHEAD ELECTRIC
(WISCONSIN POWER AND
LIGHT COMPANY)

REMOVE CONCRETE SIDEWALK

REMOVE SMALL
PIPE CULVERT

ELECTRIC
(WISCONSIN POWER AND
LIGHT COMPANY)

REMOVE SMALL PIPE CULVERT

5' CONC SIDEWALK

10"PVC

HIGHWAY EASEMENT

REMOVE CURB & GUTTER

TELEPHONE
(FRONTIER COMMUNICATIONS)

SANITARY
(MITW UTILITIES)

SANITARY
(MITW UTILITIES)

STH 47

24" CULVERT

78A

79A

80A

81A

82A

83A

REMOVE SMALL
PIPE CULVERT

REMOVE CONCRETE SIDEWALK

REMOVE SMALL
PIPE CULVERT

18" CULVERT

HIGHWAY EASEMENT

GRAVEL

TLE

SLOPE INTERCEPT

TLE

END PROJECT 9650-17-71

STA 83A+00.00

MATCH EXISTING - SAWCUT REQUIRED

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	REMOVALS	SHEET 23	E

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PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

N

STH 47

ELECTRIC
(WISCONSIN POWER AND
LIGHT COMPANY)

EASEMENT

HIGHWAY

TELEPHONE
(FRONTIER COMMUNICATIONS)

CLEARING & GRUBBING (TYP)

SLOPE INTERCEPT

TLE

REMOVE CURB & GUTTER

STANDING PINES DRIVE

38D+26

39D

40D

41D

42D

42D+54

OVERHEAD ELECTRIC
(ALLIANT ENERGY)

12B

6A

10B

14+53

13B

14B

6A

10B

6A

10"PVC

24" CULVERT

5' CONC. SIDEWALK

WOODS

TLE

BEGIN CONSTRUCTION
STA 38D+45.00

SLOPE INTERCEPT

TLE

CLEARING & GRUBBING
(TYP)

6A

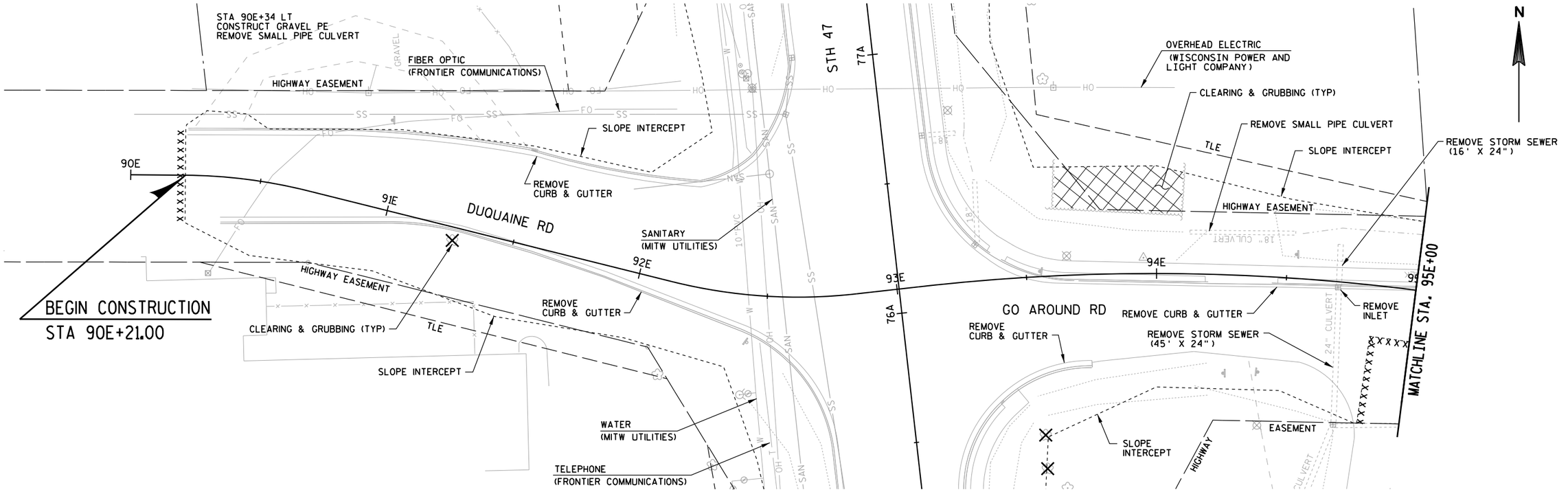
10"PVC

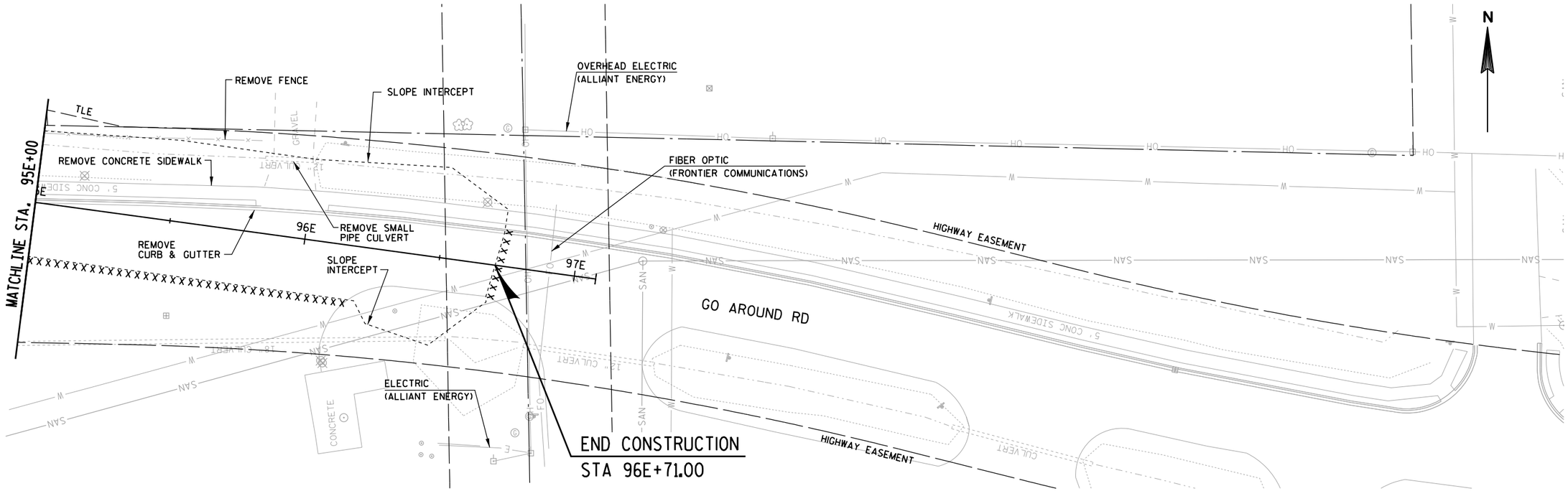
STH 47

HIGHWAY EASEMENT

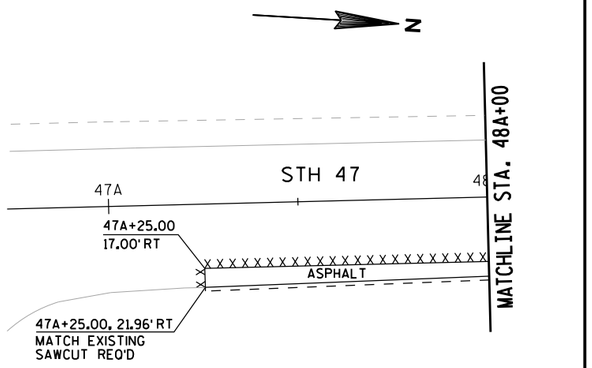
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WISDOT/CADDS SHEET 42

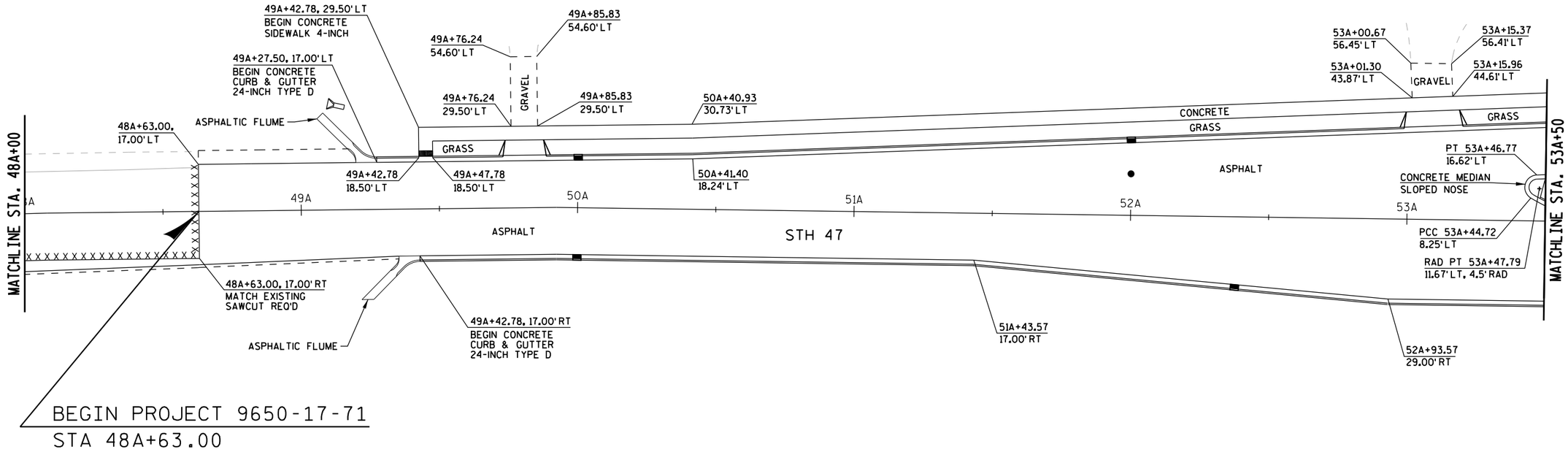




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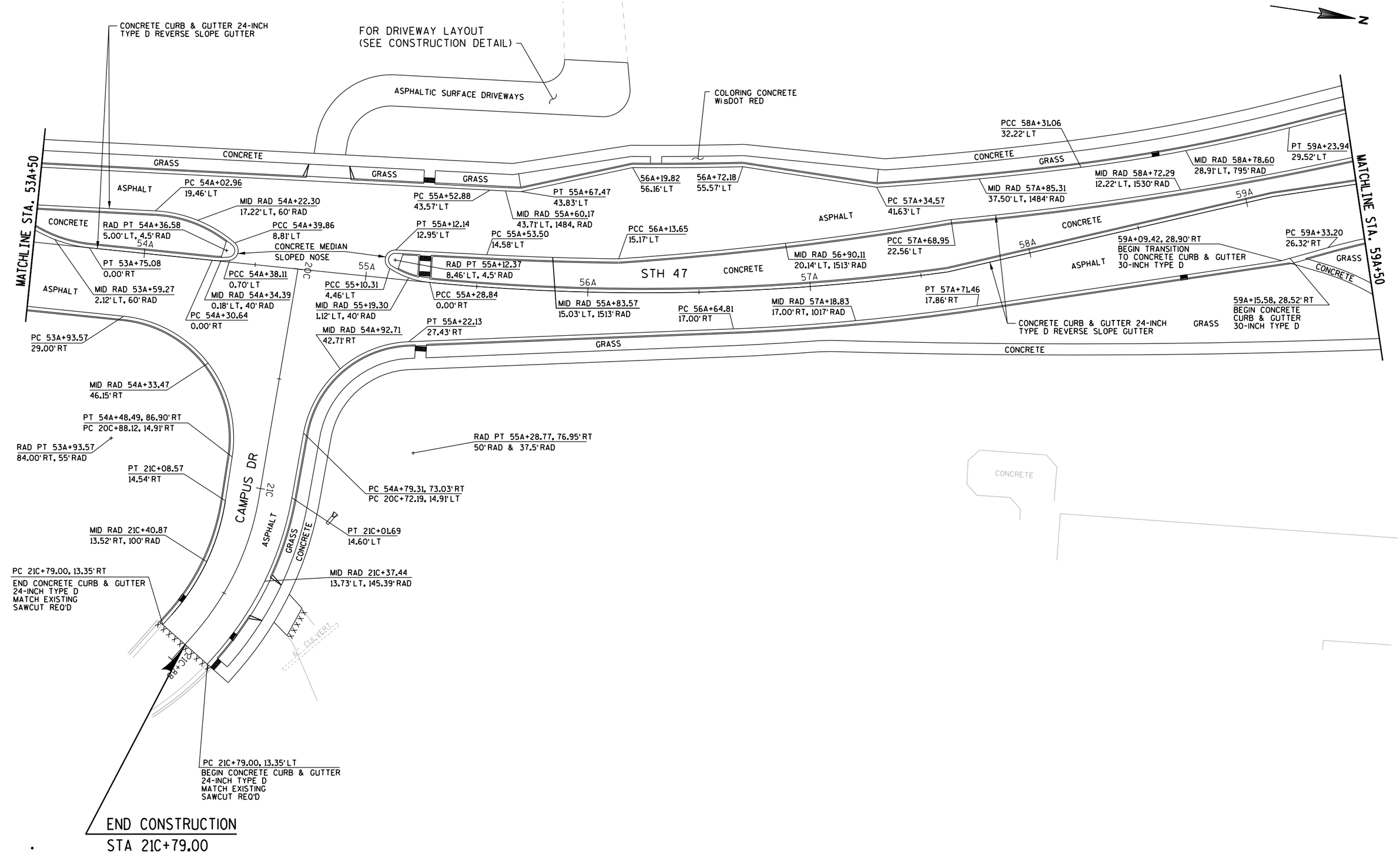


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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	LAYOUT - STH 47	SHEET 26	E

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PLOT TIME: 6:57:37 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42


CONCRETE CURB & GUTTER 24-INCH TYPE D REVERSE SLOPE GUTTER
FOR DRIVEWAY LAYOUT (SEE CONSTRUCTION DETAIL)
ASPHALTIC SURFACE DRIVEWAYS
COLORING CONCRETE WisDOT RED
N
MATCHLINE STA. 53A+50
MATCHLINE STA. 59A+50
STH 47
CAMPUS DR
GRASS
CONCRETE
ASPHALT
PC 54A+02.96
19.46' LT
MID RAD 54A+22.30
17.22' LT, 60' RAD
RAD PT 54A+36.58
5.00' LT, 4.5' RAD
PT 53A+75.08
0.00' RT
MID RAD 53A+59.27
2.12' LT, 60' RAD
PCC 54A+38.11
0.70' LT
MID RAD 54A+34.39
0.18' LT, 40' RAD
PC 54A+30.64
0.00' RT
CONCRETE MEDIAN
SLOPED NOSE
PC 53A+93.57
29.00' RT
MID RAD 54A+33.47
46.15' RT
PT 54A+48.49, 86.90' RT
PC 20C+88.12, 14.91' RT
RAD PT 53A+93.57
84.00' RT, 55' RAD
PT 21C+08.57
14.54' RT
MID RAD 21C+40.87
13.52' RT, 100' RAD
PC 21C+79.00, 13.35' RT
END CONCRETE CURB & GUTTER
24-INCH TYPE D
MATCH EXISTING
SAWCUT REQ'D
PCC 55+10.31
4.46' LT
MID RAD 55+19.30
1.12' LT, 40' RAD
PC 55A+52.88
43.57' LT
PT 55A+12.14
12.95' LT
RAD PT 55A+12.37
8.46' LT, 4.5' RAD
PC 55A+28.84
0.00' RT
PT 55A+22.13
27.43' RT
MID RAD 54A+92.71
42.71' RT
PC 55A+53.50
14.58' LT
PT 55A+67.47
43.83' LT
MID RAD 55A+60.17
43.71' LT, 1484, RAD
56A+19.82
56.16' LT
56A+72.18
55.57' LT
PCC 56A+13.65
15.17' LT
MID RAD 55A+83.57
15.03' LT, 1513' RAD
PC 56A+64.81
17.00' RT
MID RAD 56+90.11
20.14' LT, 1513' RAD
MID RAD 57A+18.83
17.00' RT, 1017' RAD
PCC 57A+68.95
22.56' LT
PC 57A+34.57
41.63' LT
PT 57A+71.46
17.86' RT
PCC 58A+31.06
32.22' LT
MID RAD 57A+85.31
37.50' LT, 1484' RAD
MID RAD 58A+72.29
12.22' LT, 1530' RAD
MID RAD 58A+78.60
28.91' LT, 795' RAD
PT 59A+23.94
29.52' LT
59A+09.42, 28.90' RT
BEGIN TRANSITION
TO CONCRETE CURB & GUTTER
30-INCH TYPE D
PC 59A+33.20
26.32' RT
59A+15.58, 28.52' RT
BEGIN CONCRETE
CURB & GUTTER
30-INCH TYPE D
CONCRETE CURB & GUTTER 24-INCH
TYPE D REVERSE SLOPE GUTTER
RAD PT 55A+28.77, 76.95' RT
50' RAD & 37.5' RAD
PC 54A+79.31, 73.03' RT
PC 20C+72.19, 14.91' LT
PT 21C+01.69
14.60' LT
MID RAD 21C+37.44
13.73' LT, 145.39' RAD
6' CULVERT
PC 21C+79.00, 13.35' LT
BEGIN CONCRETE CURB & GUTTER
24-INCH TYPE D
MATCH EXISTING
SAWCUT REQ'D
END CONSTRUCTION
STA 21C+79.00
202
55A
56A
57A
58A
59A
21C

2

N

ASPHALTIC SURFACE DRIVEWAYS

COLORING CONCRETE
WisDOT RED

MID RAD 58A+79.11
41.40' LT, 782' RAD

PT 59A+22.66
41.96' LT

MID RAD 57A+88.90
49.63' LT, 1471.5 RAD

PCC 58A+32.37
44.65' LT

55A+62.70
56.22' LT

56A+18.83
63.17' LT

56A+73.22
65.55' LT

PC 57A+39.90
53.94' LT

55A+21.31
49.96' LT

MATCHLINE STA. 53A+50

GRASS

CONCRETE

ASPHALT

GRASS

GRASS

CONCRETE

GRASS

55A+21.59
44.47' LT

55A+26.72
44.72' LT

ASPHALT

59A

CONCRETE

54A

55A+23.25
11.51' LT

55A+28.30
11.75' LT

58A

ASPHALT

GRASS

CONCRETE

55A

STH 47

CONCRETE

57A

56A

55A+23.72
2.33' LT

55A+28.75
2.00' LT

59A+15.14, 30.59' RT
BEGIN 4' CONCRETE
SIDEWALK 4-INCH

PC 59A+29.38
37.23' RT

MID RAD 59A+40.71
43.43' RT, 100' RAD

GRASS

55A+25.25
29.01' RT

55A+30.08
28.32' RT

GRASS

CONCRETE

55A+30.32
33.84' RT

PT 55A+23.88
39.81' RT

PC 56A+64.81
29.50' RT

PCC 57A+09.17
30.07' RT

MID RAD 58A+61.01
60.83' RT, 3841.22' RAD

MID RAD 56A+82.05
29.50' RT, 1029.5' RAD

MID RAD 57A+04.23
29.64' RT, 100' RAD

MID RAD 55A+01.82
51.27' RT, 37.5' RAD

PCC 56A+99.28
29.50' RT

RAD PT 55A+28.77, 76.95' RT
50' RAD & 37.5' RAD

PC 54A+91.78, 74.01' RT
PC 20C+72.32, 27.41' LT

CAMPUS DR

21C

ASPHALT

GRASS

CONCRETE

PT 21C+01.81
27.10' LT

CONCRETE

21C+74.00
14.85' LT

21C+79.00
15.09' LT

MID RAD 21C+37.61
26.23' LT, 153.89, RAD

21C+40.55, 34.10' LT
MATCH EXISTING
SAWCUT REQ'D

CULVERT

21C+51.57,
34.16' LT

PC 21C+79.00, 25.85' LT
BEGIN CONCRETE SIDEWALK 4-INCH

END CONSTRUCTION
STA 21C+79.00

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	LAYOUT - STH 47 AND CAMPUS DRIVE SIDEWALK	SHEET 28	E

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WISDOT/CADDS SHEET 42

2

N

STANDING PINES DRIVE

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

CONCRETE CURB & GUTTER 18-INCH TYPE A REVERSE SLOPE GUTTER (COLOR BLUE)

PC 60A+03.97, 35.32' LT
BEGIN CONCRETE CURB & GUTTER 30-INCH TYPE D

60A+00.81, 34.87' LT
BEGIN TRANSITION TO CONCRETE CURB & GUTTER 30-INCH TYPE D

59A+74.99, 14.03' LT
BEGIN CONCRETE CURB & GUTTER 30-INCH TYPE D

59A+70.20, 13.59' LT
BEGIN TRANSITION TO CONCRETE CURB & GUTTER 30-INCH TYPE D

59A+68.71
34.03' LT

MID RAD 60A+56.19
87.52' LT, 65' RAD

PCC 60A+58.57
96.59' LT

MID RAD 60A+16.17
40.55' LT, 1500' RAD

PCC 60A+52.81
79.38' LT

MID RAD 60A+41.59
61.74' LT, 400' RAD

PCC 60A+27.36
47.70' LT

RAD PT 60A+41.79
31.67' LT, 6' RAD

PC 60+39.37
36.75' LT

13B+51.73
0.00' LT

13B+78.68
0.00' RT

RAD PT 60A+48.20
4.00' LT, 4' RAD

PRC 60A+48.20
0.00' LT

PT 14B+17.59
20.00' LT

PCC 59A+97.07
24.00' RT

MID RAD 59A+64.10
24.07' RT, 300' RAD

PT 60A+67.62
24.00' RT

PC 61A+11.95
22.38' RT

59A+75.41, 0.00' LT
CONCRETE CURB AND GUTTER 30-INCH TYPE D

59A+70.41, 0.00' LT
BEGIN TRANSITION TO CONCRETE CURB AND GUTTER 30-INCH TYPE D

61A+06.59, 23.77' RT
END ASPHALT DRIVEWAY

PT 61A+06.82
96.53' RT

MID RAD 61A+07.17
101.44' RT, 40' RAD

PC 61A+07.78
106.23' RT

61A+10.24, 123.06' RT
BEGIN ASPHALT DRIVEWAY MATCH EXISTING SAWCUT REQ'D

61A+22.59
25.53' RT

PT 61A+15.37
89.66' RT

MID RAD 61A+15.42
94.14' RT, 20' RAD

PC 61A+15.98
98.49' RT

61A+19.25
117.75' RT

MID RAD 61A+37.17
23.73' RT, 77' RAD

PT 61A+62.48
20.33' RT

PCC 62A+25.39
84.33' LT

MID RAD 62A+26.78
77.77' LT, 25' RAD

PCC 62A+29.87
71.81' LT

PRC 62A+30.11
44.31' LT

11B+44.23
0.00' RT

RAD PT 62A+27.59
41.21' LT, 4' RAD

PCC 13B+97.92
20.00' LT

PCC 60A+78.17
22.28' LT

MID RAD 60A+81.51
19.57' LT

PT 60A+86.10
19.18' LT

MID RAD 14B+15.87
20.31' LT, 5' RAD

11B+08.02
0.00' LT

62A+10.68
0.00' LT

RAD PT 62A+10.68
6.00' LT, 6' RAD

PCR 62A+31.82
87.80' LT

RAD PT 62A+29.38
84.63' LT, 4' RAD

PC 62A+30.58
121.28' LT

MID RAD 62A+37.73
106.43' LT, 50' RAD

PCC 62A+49.32
94.72' LT

MID RAD 62A+95.40
66.33' LT, 334' RAD

MID RAD 62A+68.61
62.50' LT, 350' RAD

PCR 63A+08.11
44.17' LT

RAD PT 63A+06.61
39.43' LT, 5' RAD

PT 63A+06.41
34.43' LT

MID RAD 62A+57.26
46.15' LT, 90' RAD

PT 62A+91.74
35.21' LT

PT 62A+91.84
19.16' LT

MID RAD 62A+59.27
26.71' LT, 120' RAD

PC 63A+02.19
20.11' RT

62A+66.04, 16.56' RT
BEGIN CONCRETE CURB & GUTTER 24-INCH TYPE D

PT 62A+61.48, 16.00' RT
BEGIN TRANSITION TO CONCRETE CURB & GUTTER 24-INCH TYPE D

PC 62A+18.81
16.69' RT

MID RAD 62A+33.82
16.23' RT, 800' RAD

PCC 62A+48.83
16.06' RT

MID RAD 62A+55.14
16.04' RT, 1700' RAD

CONCRETE CURB & GUTTER 30-INCH TYPE D REVERSE SLOPE GUTTER

MID RAD 63A+83.35
44.46' LT, 500' RAD

PCC 63+49.20
49.78' LT

65A+08.02, 40.09' LT
BEGIN TRANSITION TO CONCRETE CURB & GUTTER 24-INCH TYPE D

65A+12.80, 40.06' LT
BEGIN CONCRETE CURB & GUTTER 24-INCH TYPE D

PT 64A+17.85
41.91' LT

MID RAD 64A+93.13
14.46' LT, 200' RAD

PCC 64A+67.71
16.00' LT

MID RAD 64A+51.73
16.00' LT, 3500' RAD

PC 64A+35.74
16.00' LT

PCC 65A+18.19
9.85' LT

CONCRETE MEDIAN SLOPED NOSE

PC 65A+17.00
0.00' RT

RAD PT 65A+17.00
5.00' LT, 5' RAD

PCC 64A+47.29
17.00' RT

MID RAD 63A+74.81
17.78' RT, 1695' RAD

CONCRETE CURB & GUTTER 30-INCH TYPE D REVERSE SLOPE GUTTER

MATCHLINE STA. 59A+50

MATCHLINE STA. 65A+50

STH 47

ASPHALT

CONCRETE

GRASS

COLORED CONCRETE

5' CONC SIDEWALK

6" CULVERT

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	LAYOUT - STH 47 CURB & GUTTER	SHEET 29	E

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PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

N

STANDING PINES DRIVE

PT 60A+53.63, 142.23' LT
END 8' CONCRETE
SIDEWALK 4-INCH

MID RAD 60A+53.64
122.11' LT, 74' RAD

PCC 60A+50.87
102.79' LT

MID RAD 60A+48.89
96.20' LT, 49' RAD

PCC 60A+46.27
90.37' LT

MID RAD 60A+43.31
85.27' LT, 384' RAD

PCC 60A+40.14
80.44' LT

MID RAD 60A+35.08
74.01' LT, 192' RAD

PC 60A+29.47
68.53' LT

PT 59A+83.75, 39.60' LT
END 4' CONCRETE
SIDEWALK 4-INCH

MID RAD 59A+85.48
40.59' LT, 10' RAD

PT 59A+87.35
41.15' LT

59A+77.29, 47.64' LT
END 5' CONCRETE
SIDEWALK 4-INCH
BEGIN 8' CONCRETE
SIDEWALK 4-INCH

60A+59.67
143.60' LT

60A+60.23
133.68' LT

PC 62A+41.23, 153.02' LT
BEGIN 8' CONCRETE
SIDEWALK 4-INCH

62A+27.21
152.95' LT

MID RAD 62A+42.82
139.25' LT, 124' RAD

PCC 62A+45.95
125.75' LT

MID RAD 62A+50.79
115.65' LT, 34' RAD

PCC 62A+57.73
107.72' LT

62A+28.11
142.95' LT

MID RAD 63A+01.00
81.11' LT, 318' RAD

PCC 63A+52.21
65.49' LT

MID RAD 63A+85.12
60.35' LT, 418' RAD

PT 64A+18.36
57.90' LT

PC 65A+08.77
56.08' LT

MID RAD 65A+33.95
55.46' LT, 610' RAD

CONCRETE

GRASS

GRASS

GRASS

GRASS

CONCRETE

GRASS

ASPHALT

CONCRETE

ASPHALT

GRASS

CONCRETE

GRASS

CONCRETE

GRASS

CONCRETE

2

N

MATCHLINE STA. 65A+50

PT 65A+59.11
53.96' LT

ASPHALT

67A+28.90, 45.01' LT
END 8' CONCRETE SIDEWALK 4-INCH
BEGIN 5' CONCRETE SIDEWALK 4-INCH

67A+35.14, 31.62' LT
END 4' CONCRETE
SIDEWALK 4-INCH

69A+00.49
54.20' LT

69A+00.49
43.50' LT

GRAVEL

69A+27.34, 54.20' LT
MATCH EXISTING

69A+27.34
43.50' LT

CONCRETE

GRASS

GRASS

GRASS

67A+45.81
31.00' LT

PC 66A+81.20
26.00' LT

MID RAD 66A+93.69
26.00' LT, 3510 RAD

PT 67A+25.40, 36.26' LT
BEGIN 4' CONCRETE
SIDEWALK 4-INCH

ASPHALT

STH 47

66A

67A

68A

69A

70A

71A

MID RAD 67A+23.47
36.95' LT, 10' RAD

PT 67A+06.18
26.00' LT

PC 67A+21.45
37.22' LT

GRASS

CONCRETE

65A+90.74
29.50' RT

66A+03.27
29.50' RT

GRAVEL

65A+88.09
67.15' RT

66A+00.70, 68.00' RT
MATCH EXISTING

68A+10.20
29.50' RT

ASPHALT

68A+38.60
29.50' RT

68A+09.70
46.60' RT

68A+38.79, 46.70' RT
MATCH EXISTING
SAWCUT REQ'D

ASPHALT

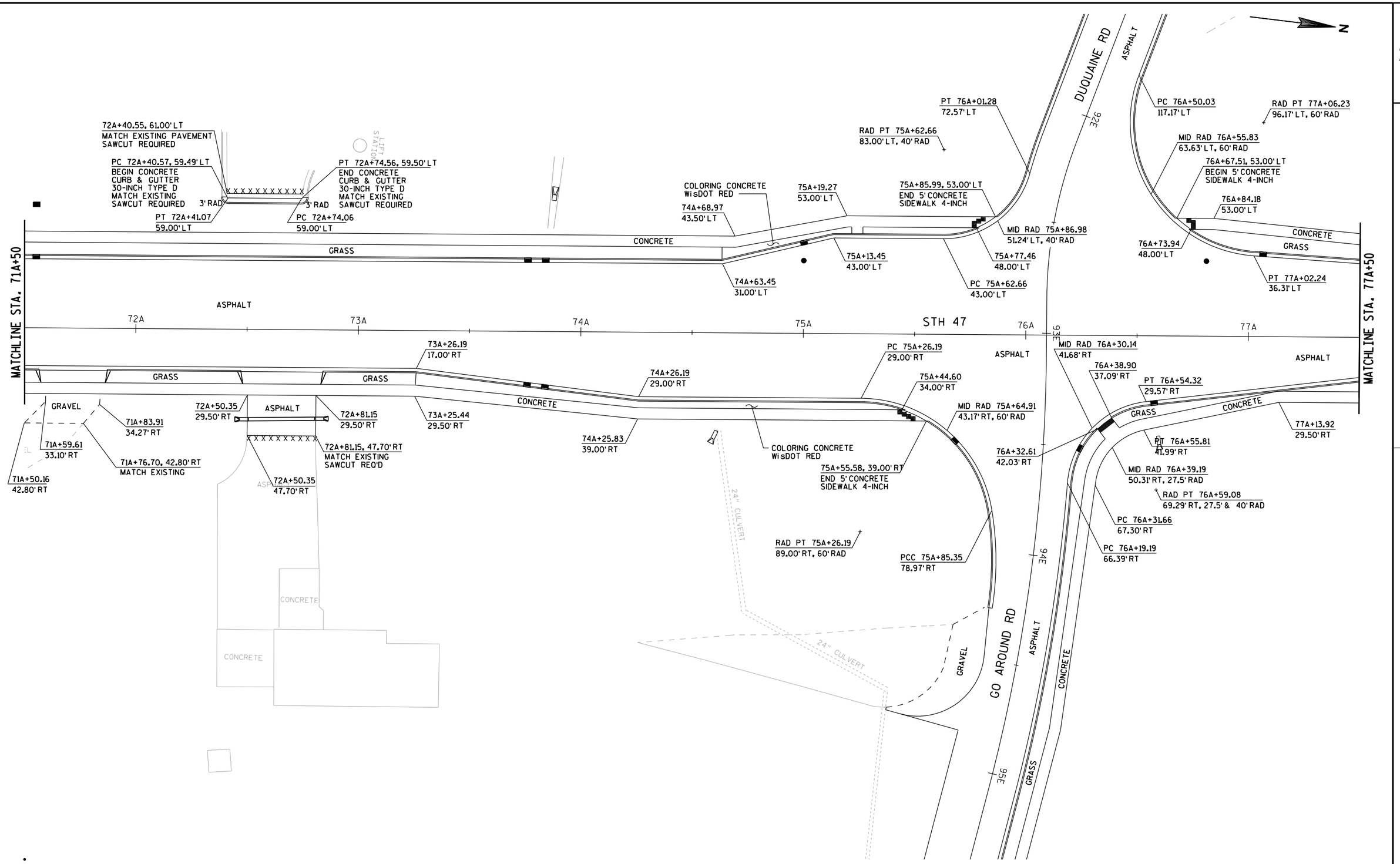
GRAVEL

MATCHLINE STA. 71A+50

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	LAYOUT - STH 47	SHEET 31	E

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WISDOT/CADDS SHEET 42

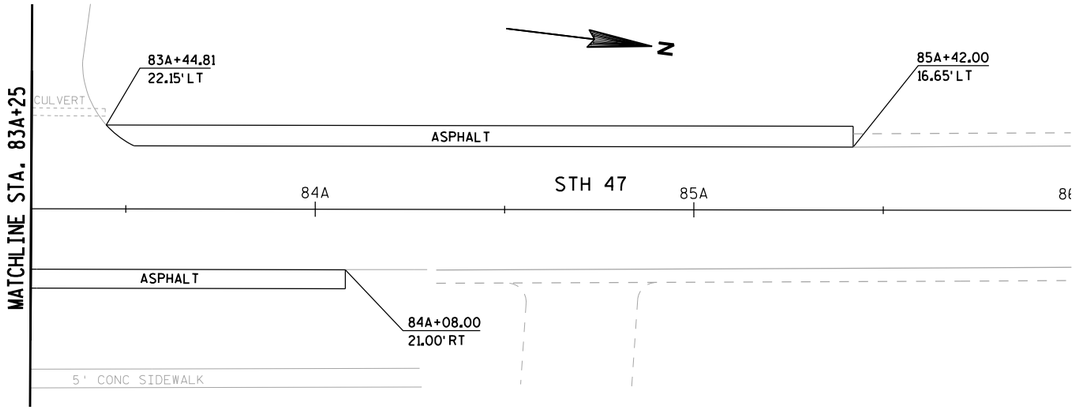
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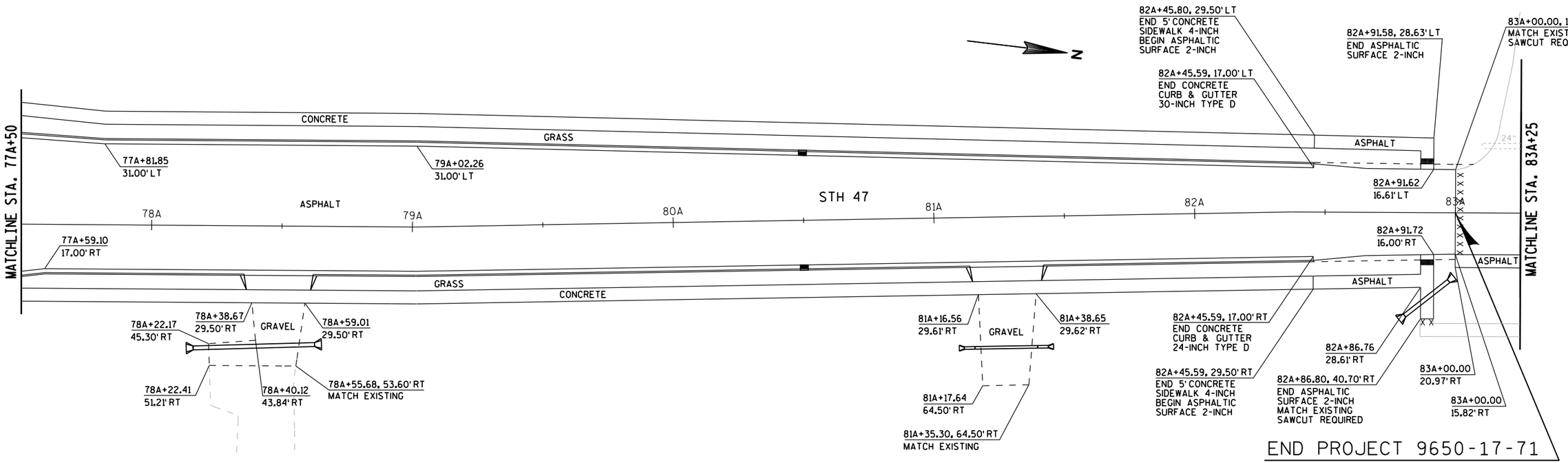


PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	LAYOUT - STH 47	SHEET 32	E

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WISDOT/CADDS SHEET 42

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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	LAYOUT - STH 47	SHEET 33	E

FILE NAME: L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\021218_pd.dgn
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PLOT DATE: 11/1/2017
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PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

N

38D+51.44
51.00' LT

38D+76.51, 51.25' LT
BEGIN CONCRETE
CURB & GUTTER
30-INCH TYPE D
MATCH EXISTING
SAWCUT REQ'D

RAD PT 39D+09.34
52.83' LT, 35' RAD

GRASS

41D+04.41
80.51' LT

41D+04.15, 78.53' LT
BEGIN CONCRETE
CURB & GUTTER
18-INCH TYPE D
MATCH EXISTING
SAWCUT REQ'D

41D+47.88
75.31' LT

41D+47.89, 73.31' LT
END CONCRETE
CURB & GUTTER
18-INCH TYPE D

PCC 41D+78.15
55.32' LT

MID RAD 41D+59.81
35.91' LT, 140' RAD

MID RAD 38D+87.01
26.84' LT, 35' RAD

CONCRETE CURB & GUTTER 30-INCH
TYPE D REVERSE SLOPE GUTTER

PT 41D+90.74
29.82' LT

PC 41D+35.39
28.07' LT

41D+67.35
15.99' LT

41D+75.73
19.31' LT

PT 39D+11.59
17.91' LT

RAD PT 40D+30.87
5.00' LT, 5' RAD

PC 40D+30.53
9.99' LT

ASPHALT

CONCRETE

41D+70.58
9.29' LT

41D+79.86
11.90' LT

RAD PT 41D+93.09
24.56' LT, 6' RAD

38D+26

39D

40D

41D

STANDING PINES DRIVE

PT 40D+30.87
0.00' LT

ASPHALT

41D+70.04
2.00' LT

41D+79.89
2.00' LT

12B+32.58
0.00' LT

12B+53.51
0.00' RT

RAD PT 42D+00.89
4.00' LT, 4' RAD

42D+54

38D+42.97
12.15' RT

38D+82.88, 15.50' RT
END CONCRETE
CURB & GUTTER
30-INCH TYPE D

PC 40D+33.14
16.00' RT

MID RAD 40D+60.40
16.00' RT, 816' RAD

PT 40D+87.66
16.00' RT

PC 41D+32.63
16.00' RT

MID RAD 41D+78.26
16.82' RT, 90' RAD

PRC 42D+00.89
0.00' LT

PCC 42D+20.57
21.80' RT

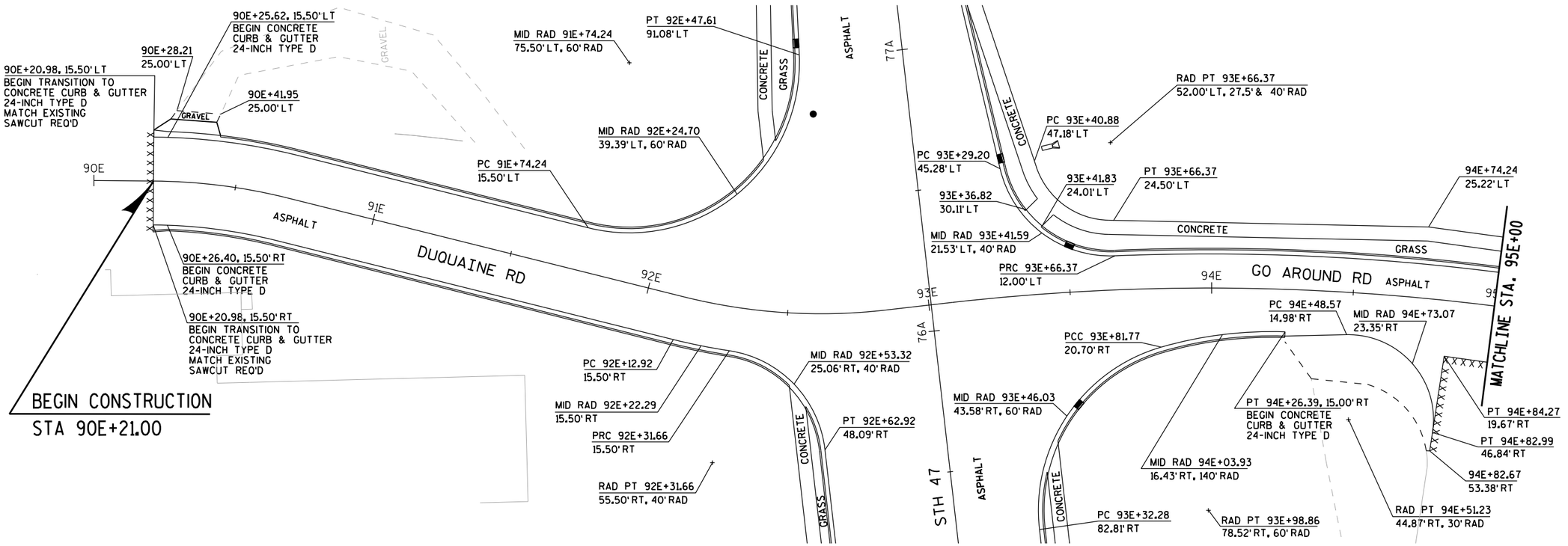
BEGIN CONSTRUCTION
STA 38D+45.00

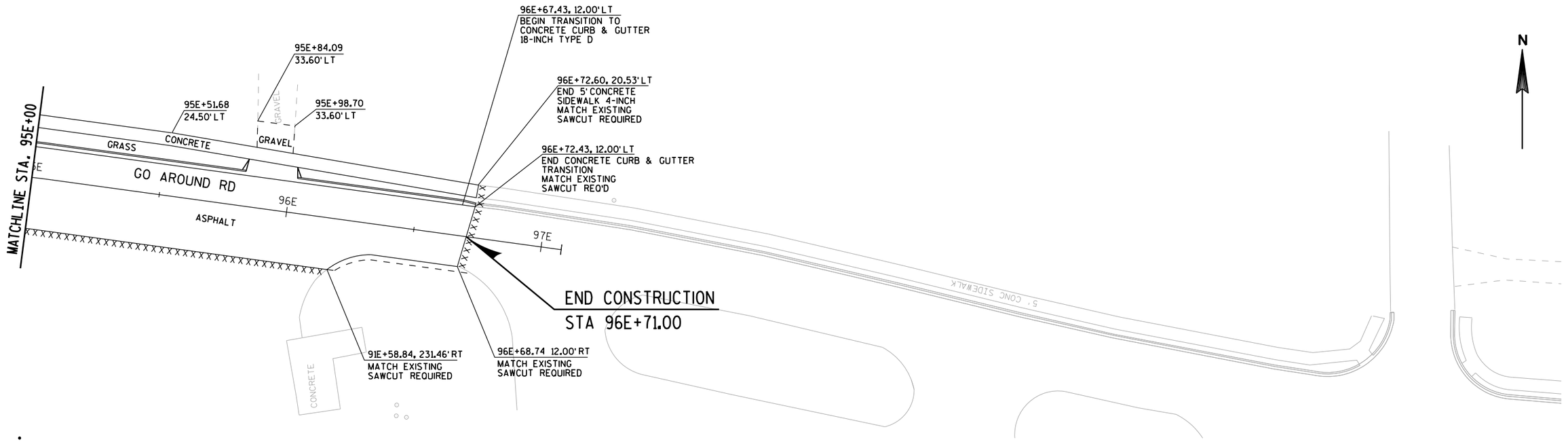
RAD PT 41D+39.17
105.97' RT, 90' RAD

CONCRETE
GRASS
ASPHALT
CONCRETE
CONCRETE
GRASS
STH 47
GRASS
CONCRETE
GRASS
CONCRETE
ASPHALT
CONCRETE
63A
61A
12B
61B
COLORED CONCRETE
ASPHALT
10B
14+53
13B
ASPHALT
14B
GRASS
CONCRETE
CONCRETE
60A
STH 47
ASPHALT
ASPHALT
GRASS
GRASS
C. SIDEWALK

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	LAYOUT - STANDING PINES DRIVE	SHEET 34	E

FILE NAME: L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\021219_pd.dgn
BATCH PRINT SHEET 9 OF 10
PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\MS_Printing\Pen_Tables\ET_WisDOT_fade159.tbl
PLOT DATE: 11/1/2017
PLOT TIME: 6:57:58 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42



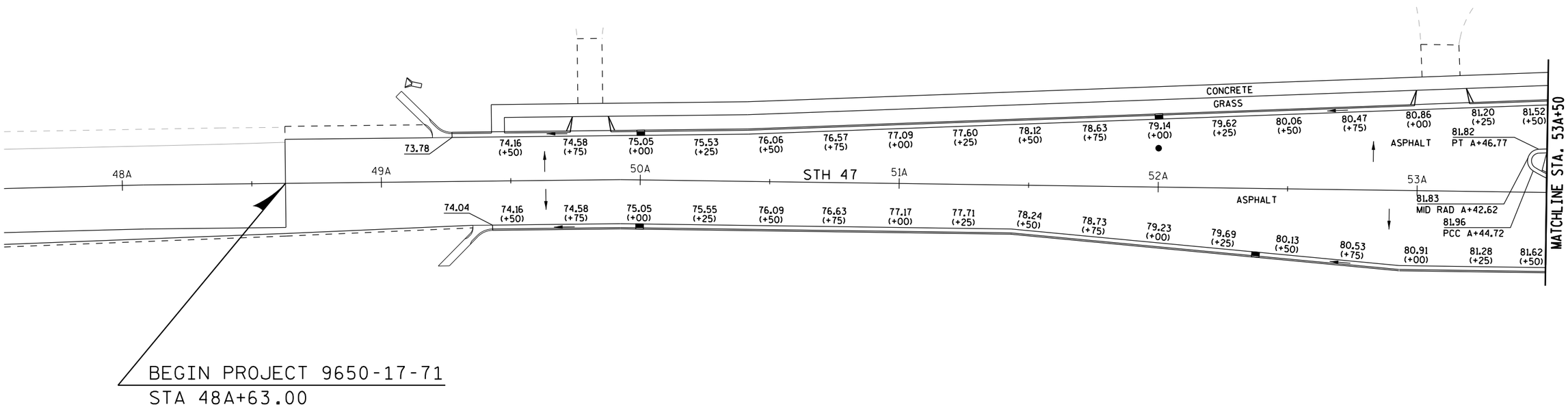


PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	LAYOUT - DUQUAINE ROAD AND GO AROUND ROAD	SHEET 35	E

FILE NAME: L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\021220_pd.dgn
BATCH PRINT SHEET 10 OF 10
PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\MS_Printing\Pen_Tables\ET_WisDOT_fade159.tbl
PLOT DATE: 11/1/2017
PLOT TIME: 6:58:01 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

N



PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	PAVING GRADES - STH 47	SHEET 36	E

FILE NAME: L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\021221_pg.dgn
BATCH PRINT SHEET 1 OF 8
PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\MS_Printing\Pen_Tables\ET_WisDOT_fade159.tbl
PLOT DATE: 11/1/2017
PLOT TIME: 7:02:32 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

N

MATCHLINE STA. 53A+50

MATCHLINE STA. 59A+50

STH 47

ASPHALT

CONCRETE

GRASS

COLORING CONCRETE
WisDOT RED

83.69
HIGH PT
A+83.49

82.15 (+75) | 82.42 (+00) | 82.57 (+25) | 82.75 (+50) | 82.92 (+75) | 83.09 (+00) | 83.26 (+25) | 83.32 (+50) | 83.30 (+75) | 83.18 (+00) | 83.05 (+25) | 82.98 (+50) | 82.88 (+75) | 82.67 (+00) | 82.59 (+25) | 82.51 (+50) | 82.34 (+75) | 82.07 (+00) | 81.75 (+25) | 81.41 (+50) | 81.02 (+75) | 80.59 (+00) | 80.12 (+25) | 79.62 (+50)

82.50 (+75) | 82.77 (+00) | 83.00 (+25) | 83.09 (+50) | 83.18 (+75) | 83.26 (+00) | 83.32 (+25) | 83.36 (+50) | 83.33 (+75) | 83.30 (+00) | 83.23 (+25) | 83.14 (+50) | 83.04 (+75) | 82.93 (+00) | 82.81 (+25) | 82.68 (+50) | 82.54 (+75) | 82.41 (+00) | 82.25 (+25) | 82.09 (+50) | 81.92 (+75) | 81.74 (+00) | 81.55 (+25) | 81.36 (+50) | 81.16 (+75) | 80.95 (+00) | 80.73 (+25) | 80.49 (+50) | 80.25 (+75) | 80.01 (+00)

83.09
PCC A+39.86

83.56
PT A+12.14

83.57
MID RAD A+07.97

83.09
PCC A+38.11

83.12
MID RAD A+41.67

83.56
PCC A+10.31

83.60 | 83.65 (+25) | 83.72 (+50) | 83.78 (+75) | 83.86 (+00) | 83.79 (+25) | 83.71 (+50) | 83.59 (+75) | 83.32 (+00) | 83.14 (+25) | 82.93 (+50) | 82.68 (+75) | 82.41 (+00) | 82.09 (+25) | 81.74 (+50) | 81.36 (+75) | 80.95 (+00) | 80.49 (+25) | 80.01 (+50)

83.66 | 83.72 (+50) | 83.78 (+75) | 83.86 (+00) | 83.79 (+25) | 83.71 (+50) | 83.59 (+75) | 83.46 (+00) | 83.32 (+25) | 83.14 (+50) | 82.93 (+75) | 82.68 (+00) | 82.41 (+25) | 82.09 (+50) | 81.74 (+75) | 81.36 (+00) | 80.95 (+25) | 80.49 (+50) | 80.01 (+75)

83.68 | 83.86 (+00) | 83.79 (+25) | 83.71 (+50) | 83.59 (+75) | 83.46 (+00) | 83.32 (+25) | 83.14 (+50) | 82.93 (+75) | 82.68 (+00) | 82.41 (+25) | 82.09 (+50) | 81.74 (+75) | 81.36 (+00) | 80.95 (+25) | 80.49 (+50) | 80.01 (+75)

83.68 (+00) | 83.64 (+25) | 83.57 (+50) | 83.46 (+75) | 83.32 (+00) | 83.14 (+25) | 82.93 (+50) | 82.68 (+75) | 82.41 (+00) | 82.09 (+25) | 81.74 (+50) | 81.36 (+75) | 80.95 (+00) | 80.49 (+25) | 80.01 (+50)

83.68 (+00) | 83.64 (+25) | 83.57 (+50) | 83.46 (+75) | 83.32 (+00) | 83.14 (+25) | 82.93 (+50) | 82.68 (+75) | 82.41 (+00) | 82.09 (+25) | 81.74 (+50) | 81.26 (+50) | 80.84 (+75) | 80.39 (+00) | 79.94 (+25) | 79.52 (+50)

83.30 (+00) | 83.28 (+25) | 83.23 (+50) | 83.12 (+75) | 82.98 (+00) | 82.80 (+25) | 82.59 (+50) | 82.32 (+75) | 82.01 (+00) | 81.65 (+25)

83.06 (+25) | 83.18 (+50) | 83.26 (+75)

83.03
PT A+22.13

82.61
MID RAD A+92.71

83.79
HIGH PT
A+83.49

83.69
HIGH PT
A+83.49

82.11
PC A+93.57

82.23
HIGH PT A+12.50

82.15
MID RAD A+33.47

81.46
PT C+88.12

81.84
PC C+72.19

81.79 (+75) | 81.74 (+00) | 81.16 (+25) | 80.45 (+50) | 79.64

81.79 (+75) | 81.74 (+00) | 81.16 (+25) | 80.45 (+50) | 79.64

CAMPUS DR

21C

GRASS

CONCRETE

ASPHALT

78.82±
MATCH EXISTING

78.82±
MATCH EXISTING

21C+79.00

END CONSTRUCTION
STA 21C+79.00

54A | 55A | 56A | 57A | 58A | 59A

2% | 2.2% | 2.3% | 2.5% | 0.5% | 12" | 1%

CONCRETE

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	PAVING GRADES - STH 47	SHEET 37	E

FILE NAME: L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\021222_pg.dgn
BATCH PRINT SHEET 2 OF 8
PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\MS_Printing\Pen_Tables\ET_WisDOT_fadel59.tbl
PLOT DATE: 11/1/2017
PLOT TIME: 7:02:34 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

N

STANDING PINES DRIVE

41D

41C

ROUNDABOUT

COLORED CONCRETE

ASPHALT

CONCRETE

GRASS

STH 47

MATCHLINE STA. 59A+50

MATCHLINE STA. 65A+50

5' CONC SIDEWALK

6" CULVERT

78.38 HIGH PT

78.62 HIGH PT

78.79 HIGH PT

78.36 HIGH PT B+16.24

78.19 (MID RAD)

78.00 (PT)

78.25 (PRC)

78.11 (MID RAD)

77.98 PRC B+78.68

78.04 PRC A+48.20

78.01 MID RAD A+51.48

78.59 PC A+97.07

77.87 MID RAD A+32.34

77.51 PT A+67.62

77.09 PC A+11.95

77.36 B+00 B+52.76

77.72 (PRC)

77.30 (PRC)

76.27 LOW PT B+40.32

75.84 LOW PT

77.12 B+00 B+52.76

76.10 LOW PT

75.83 (PRC)

75.96 B+44.23

76.16 PRC B+08.02

76.16 (MID RAD)

76.26 (PCC)

76.08 (MID RAD)

76.25 (MID RAD)

76.27 (PRC)

76.27 (PCC)

75.95 (PCC)

76.18 (MID RAD)

75.54 (MID RAD)

74.92 (MID RAD)

74.93 (PRC)

74.93 (MID RAD)

75.54 (MID RAD)

74.93 (PC)

75.13 (PT)

75.66 (MID RAD)

75.29 (PT)

75.93 (MID RAD)

76.00 (MID RAD)

76.51 (PT)

75.76 PC A+18.81

76.53 PT A+62.48

75.59 MID RAD A+33.82

76.81 MID RAD A+37.17

75.32 (PI)

71.70 (MID RAD)

71.23 (PCC)

71.20 (+25)

70.69 (+50)

71.38 (MID RAD)

71.23 (PC)

71.57 (+00)

70.72 (+25)

70.21 (+50)

59A

60A

61A

61B

61C

62A

63A

64A

65A

108

14+53

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	PAVING GRADES - STH 47	SHEET 38	E

FILE NAME: L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\021223_pg.dgn
BATCH PRINT SHEET 3 OF 8
PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\MS_Printing\Pen_Tables\ET_WisDOT_fade159.tbl
PLOT DATE: 11/1/2017
PLOT TIME: 7:02:37 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

N

MATCHLINE STA. 65A+50

ASPHALT

GRAVEL

CONCRETE

GRASS

GRASS

GRASS

70.11 (+50)	69.65 (+75)	69.18 (+00)	68.71 (+25)	68.24 (+50)	67.76 (+75)	67.26 (+00)	66.71 (+25)	66.15 (+50)	65.64 (+75)	65.13 (+00)	64.62 (+25)	64.11 (+50)	63.61 (+75)	63.10 (+00)	62.59 (+25)	62.08 (+50)	61.57 (+75)	61.07 (+00)	60.56 (+25)	60.05 (+50)	59.55 (+75)	59.09 (+00)	58.67 (+25)	58.29 (+50)
70.69 (+50)	70.18 (+75)	69.67 (+00)	69.17 (+25)	68.66 (+50)	68.15 (+75)	67.64 (+00)	67.13 (+25)	66.63 (+50)	66.12 (+75)	65.61 (+00)	65.10 (+25)	64.59 (+50)	64.09 (+75)	63.58 (+00)	63.07 (+25)	62.56 (+50)	62.05 (+75)	61.55 (+00)	61.04 (+25)	60.53 (+50)	60.03 (+75)	59.57 (+00)	59.15 (+25)	58.77 (+50)
		66A				67A				68A				69A				70A				71A		
70.21 (+50)	69.70 (+75)	69.19 (+00)	68.69 (+25)	68.18 (+50)	67.67 (+75)	67.16 (+00)	66.65 (+25)	66.15 (+50)	65.64 (+75)	65.13 (+00)	64.62 (+25)	64.11 (+50)	63.61 (+75)	63.10 (+00)	62.59 (+25)	62.08 (+50)	61.57 (+75)	61.07 (+00)	60.56 (+25)	60.05 (+50)	59.55 (+75)	59.09 (+00)	58.67 (+25)	58.29 (+50)

STH 47

MATCHLINE STA. 71A+50

GRAVEL

ASPHALT

15" CULVERT

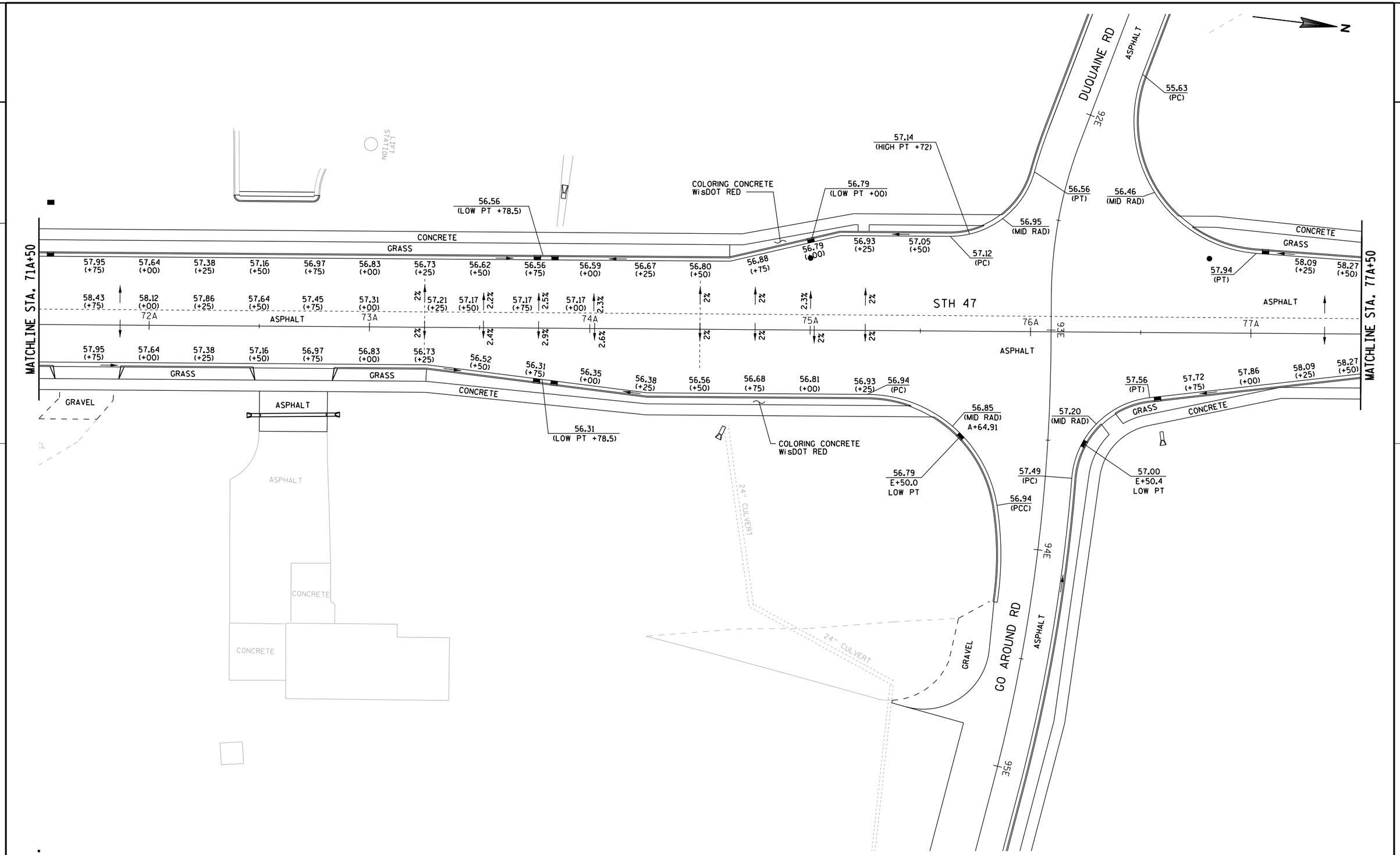
ASPHALT

GRAV

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	PAVING GRADES - STH 47	SHEET 39	E

FILE NAME: L:\Work\Projects\60158808\000.CAD\001_Drawings\Sheets\021224_pg.dgn
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PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 11/1/2017
PLOT TIME: 7:02:39 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2



PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	PAVING GRADES - STH 47	SHEET 40	E

FILE NAME: L:\Work\Projects\60158808\000.CAD\001_Drawings\Sheets\021225_pg.dgn
BATCH PRINT SHEET 5 OF 8
PRINTER DRIVER: S:\.acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60158808\000.CAD\001_Drawings\Sheets\MS_Printing\Pen_Tables\ET_WisDOT_fade159.tbl
PLOT DATE: 11/1/2017
PLOT TIME: 7:02:42 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

N

MATCHLINE STA. 77A+50

CONCRETE

GRASS

58.41 (+75) 58.54 (+00) 58.67 (+25) 58.79 (+50) 58.92 (+75) 59.04 (+00) 59.17 (+25) 59.32 (+50) 59.51 (+75) 59.73 (+00) 59.98 (+25) 60.27 (+50) 60.59 (+75) 60.94 (+00) 61.33 (+25) 61.76 (+50) 62.18 (+75) 62.61 (+00) 63.05 (+25) 63.42 (+45.60)

ASPHALT

24" CULVERT

58.90 (+75) 59.02 (+00) 59.15 (+25) 59.27 (+50) 59.40 (+75) 59.52 (+00)

78A 79A 80A 81A 82A 83A

STH 47

ASPHALT

58.41 (+75) 58.54 (+00) 58.67 (+25) 58.79 (+50) 58.92 (+75) 59.04 (+00) 59.17 (+25) 59.32 (+50) 59.51 (+75) 59.73 (+00) 59.99 (+25) 60.28 (+50) 60.60 (+75) 60.96 (+00) 61.35 (+25) 61.77 (+50) 62.20 (+75) 62.64 (+00) 63.06 (+25) 63.42 (+45.60)

GRASS GRASS GRASS ASPHALT

ASPHALT

CONCRETE

5' CONC

GRAVEL

GRAVEL

END PROJECT 9650-17-71
STA 83A+00.00

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	PAVING GRADES - STH 47	SHEET 41	E

FILE NAME: L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\021226_pg.dgn
BATCH PRINT SHEET 6 OF 8
PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\MS_Printing\Pen_Tables\ET_WisDOT_fade159.tbl
PLOT DATE: 11/1/2017
PLOT TIME: 7:02:45 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

N

78.40±
MATCH EXISTING

78.57

GRASS

78.33
(PC)

79.64
HIGH PT +74.22

78.74
(MID RAD)

78.96
(PC)

79.28
(+25)

79.55
(+50)

79.46
(+00)

79.16
(+25)

78.74
(+50)

78.15
(+75)

77.71
(+00)

77.44
(+25)

77.29
(+50)

ASPHALT

77.15
(MID RAD)

77.03
(PT)

77.57
(+75)

77.64
(+50)

77.76
(+25)

78.03
(+00)

78.47
(+75)

79.06
(+50)

79.52
(PC)

79.58
(MID RAD)

CONCRETE

77.30
(PRC)

38D+26

39D

STANDING PINES DRIVE

40D

41D

42

79.56

79.52
(PT)

78.88
(+82.88)

79.01
(+00)

79.33
(+25)

79.55
(+50)

79.46
(+00)

79.24
(+25)

78.74
(+50)

78.15
(+75)

77.71
(+00)

78.03
(+00)

78.47
(+75)

79.06
(+50)

ASPHALT

77.76
(+25)

77.44
(+25)

77.64
(+50)

77.32
(+50)

1.32%

77.73
(+75)

77.51
(+75)

0.67%

77.82
(+00)

77.70
(+00)

77.72
(PRC)

79.64
HIGH PT +74.22

77.32
LOW PT +54.63

77.75
(MID RAD)

42+54

BEGIN CONSTRUCTION
STA 38D+45.00

CONCRETE

GRASS

ASPHALT

CONCRETE

CONCRETE

ASPHALT

63A

STH 47

CONCRETE

GRASS

CONCRETE

GRASS

ASPHALT

12B

12A

13A

COLORED CONCRETE

13B

61A

10B

14-53

14B

CONCRETE

GRASS

GRASS

CONCRETE

CONCRETE

60A

ASPHALT

ASPHALT

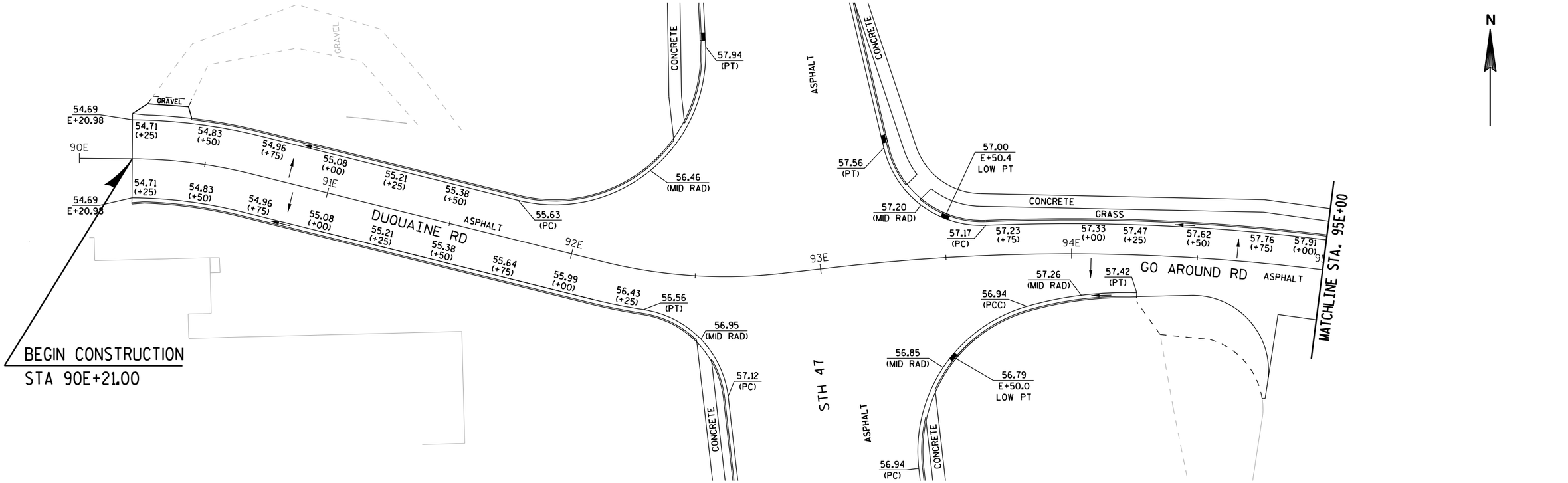
GRASS

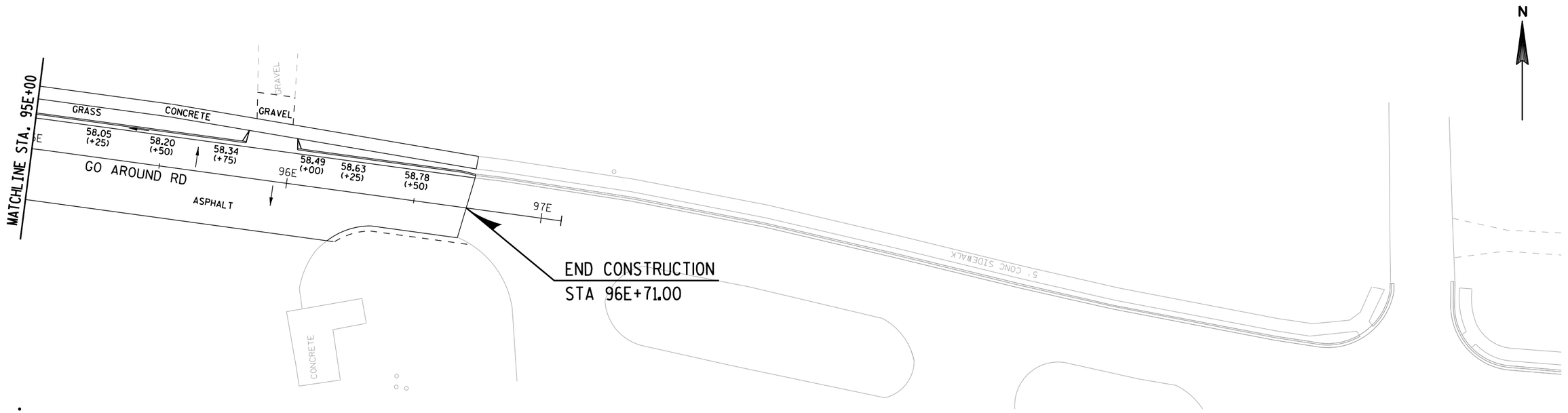
GRASS

C SIDEWALK

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	PAVING GRADES - STANDING PINES DRIVE	SHEET 42	E

FILE NAME: L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\021227_pg.dgn
BATCH PRINT SHEET 7 OF 8
PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\MS_Printing\Pen_Tables\ET_WisDOT_fade159.tbl
PLOT DATE: 11/1/2017
PLOT TIME: 7:02:48 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42





PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	PAVING GRADES - DUQUAINE AND GO AROUND ROAD	SHEET 43	E

FILE NAME: L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\021228_pg.dgn
BATCH PRINT SHEET 8 OF 8

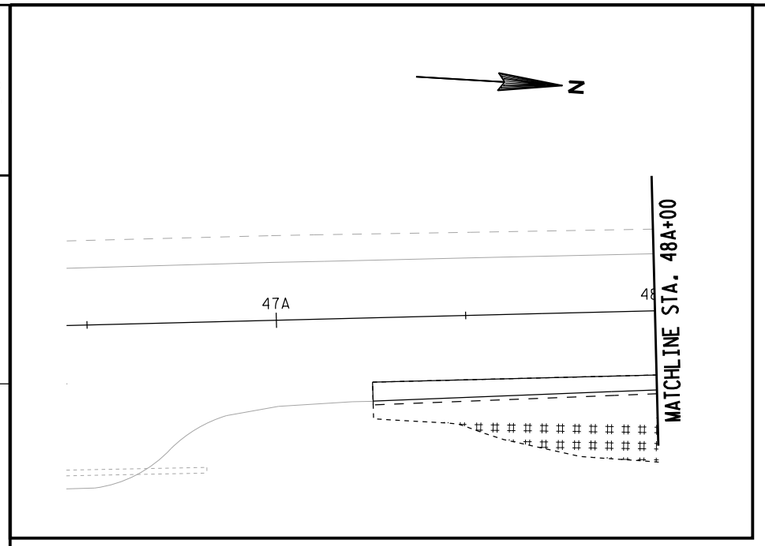
PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\MS_Printing\Pen_Tables\ET_WisDOT_fade159.tbl

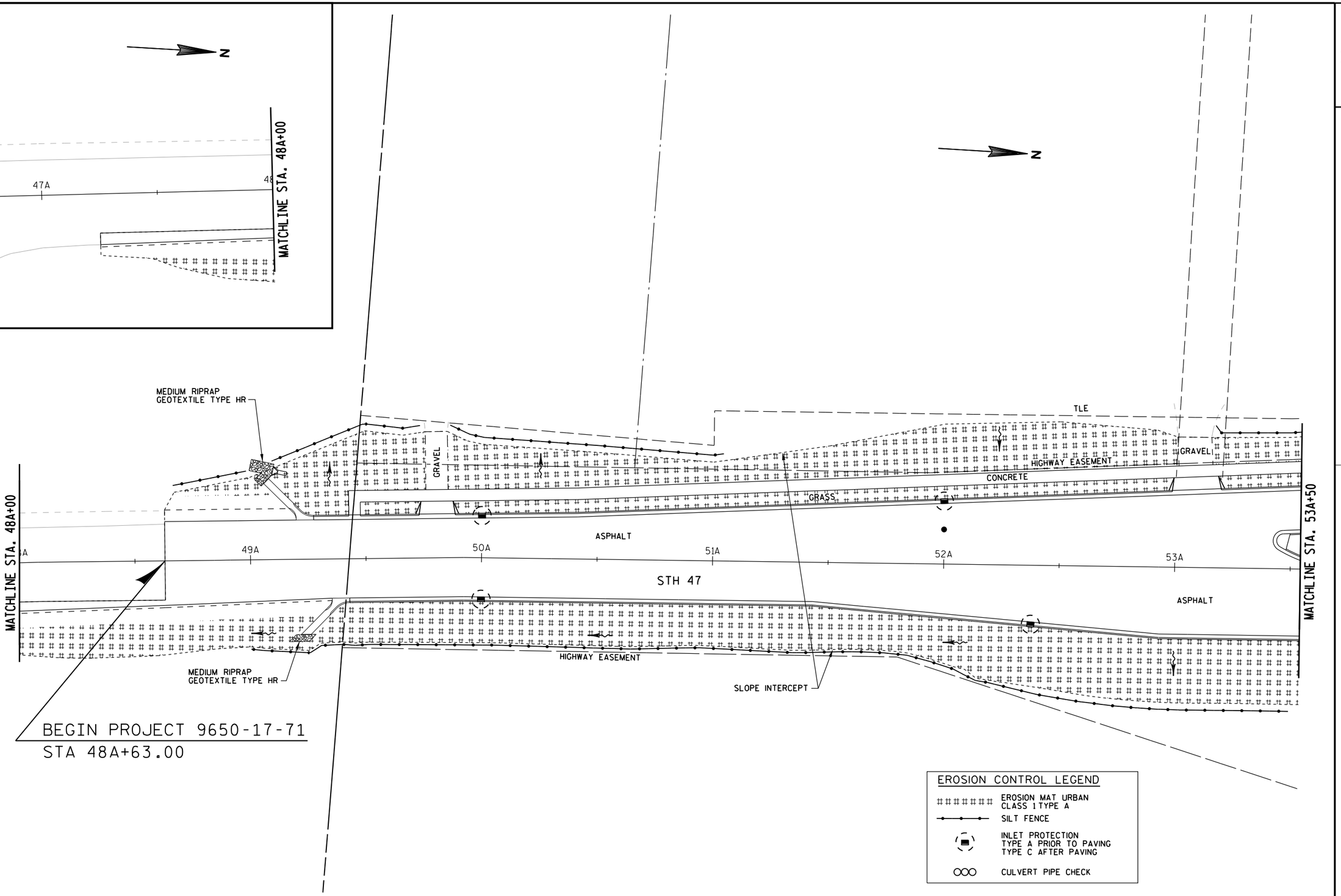
PLOT DATE: 11/1/2017
PLOT TIME: 7:02:50 AM

PLOT SCALE: 1:40

WISDOT/CADDS SHEET 42

2





EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS 1 TYPE A
- SILT FENCE
- INLET PROTECTION TYPE A PRIOR TO PAVING TYPE C AFTER PAVING
- CULVERT PIPE CHECK

2

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	EROSION CONTROL	SHEET 44	E

FILE NAME: L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\022001_ec.dgn
BATCH PRINT SHEET 1 OF 8
PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\MS_Printing\Pen_Tables\ET_WisDOT_fade159.tbl
PLOT DATE: 11/1/2017
PLOT TIME: 7:03:10 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

2

N

TLE

ASPHALT

COLORING CONCRETE
WisDOT RED

HIGHWAY EASEMENT

CONCRETE

GRASS

GRASS

GRASS

CONCRETE

GRASS

TLE

ASPHALT

MATCHLINE STA. 53A+50

MATCHLINE STA. 59A+50

CONCRETE

54A

55A

56A

57A

58A

59A

CONCRETE

ASPHALT

STH 47

GRASS

CONCRETE

GRASS

CONCRETE

HIGHWAY EASEMENT

SLOPE INTERCEPT

CONCRETE

CAMPUS DR

ASPHALT

21C

21C

21C+88

6" CULVERT

END CONSTRUCTION
STA 21C+79.00

EROSION CONTROL LEGEND

EROSION MAT URBAN CLASS 1 TYPE A

SILT FENCE

INLET PROTECTION
TYPE A PRIOR TO PAVING
TYPE C AFTER PAVING

CULVERT PIPE CHECK

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	EROSION CONTROL	SHEET 45	E

FILE NAME: L:\Work\Projects\60158808\000.CAD\001_Drawings\Sheets\022002_ec.dgn
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PLOT DATE: 11/1/2017
PLOT TIME: 7:03:13 AM
PLOT SCALE: 1:40

2

N

STANDING PINES DRIVE

ASPHALT

CONCRETE

TLE

GRASS

STH 47

ROUNDABOUT

COLORED CONCRETE

HIGHWAY EASEMENT

SLOPE INTERCEPT

MATCHLINE STA. 59A+50

MATCHLINE STA. 65A+50

5' CONC. SIDEWALK

6" CULVERT

60A

61A

62A

63A

64A

65A

10B

14B

14+53

42+54

EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS 1 TYPE A
- SILT FENCE
- INLET PROTECTION TYPE A PRIOR TO PAVING TYPE C AFTER PAVING
- CULVERT PIPE CHECK

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	EROSION CONTROL	SHEET 46	E

FILE NAME: L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\022003_ec.dgn
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PLOT DATE: 11/1/2017
PLOT TIME: 7:03:17 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

2

N

ASPHALT

TLE

HIGHWAY EASEMENT

GRAVEL

CONCRETE

GRASS

GRASS

GRASS

STH 47

ASPHALT

MATCHLINE STA. 65A+50

MATCHLINE STA. 71A+50

66A

67A

68A

69A

70A

71A

GRASS

CONCRETE

ASPHALT

15" CULVERT

HIGHWAY EASEMENT

GRAVEL

TLE

SLOPE INTERCEPT

ASPHALT

GRAV

EROSION CONTROL LEGEND

EROSION MAT URBAN CLASS 1 TYPE A

SILT FENCE

INLET PROTECTION TYPE A PRIOR TO PAVING TYPE C AFTER PAVING

CULVERT PIPE CHECK

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	EROSION CONTROL	SHEET 47	E

FILE NAME: L:\Work\Projects\60158808\000.CAD\001_Drawings\Sheets\022004_ec.dgn
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PLOT DATE: 11/1/2017
PLOT TIME: 7:03:20 AM

PLOT SCALE: 1:40

2

2

MATCHLINE STA. 71A+50

MATCHLINE STA. 77A+50

STH 47

DUQUAINE RD

GO AROUND RD

92E

93E

94E

95E

72A

73A

74A

75A

76A

77A

N

TLE

HIGHWAY EASEMENT

COLORING CONCRETE
WisDOT RED

CONCRETE

GRASS

ASPHALT

SLOPE INTERCEPT

24" CULVERT

LIFT STATION

CONCRETE

CONCRETE

EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS 1 TYPE A
- SILT FENCE
- INLET PROTECTION TYPE A PRIOR TO PAVING TYPE C AFTER PAVING
- CULVERT PIPE CHECK

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	EROSION CONTROL	SHEET 48	E

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PLOT DATE: 11/1/2017
PLOT TIME: 7:03:23 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

N

MATCHLINE STA. 77A+50

SILT FENCE RELIEF
SEE DETAIL

TLE

PLE

HIGHWAY EASEMENT

CONCRETE

GRASS

ASPHALT

24" CULVERT

ASPHALT

STH 47

78A

79A

80A

81A

82A

83A

GRASS

GRASS

CONCRETE

GRASS

ASPHALT

GRAVEL

TLE

SLOPE INTERCEPT

GRAVEL

HIGHWAY EASEMENT

TLE

5' CONC

END PROJECT 9650-17-71
STA 83A+00.00

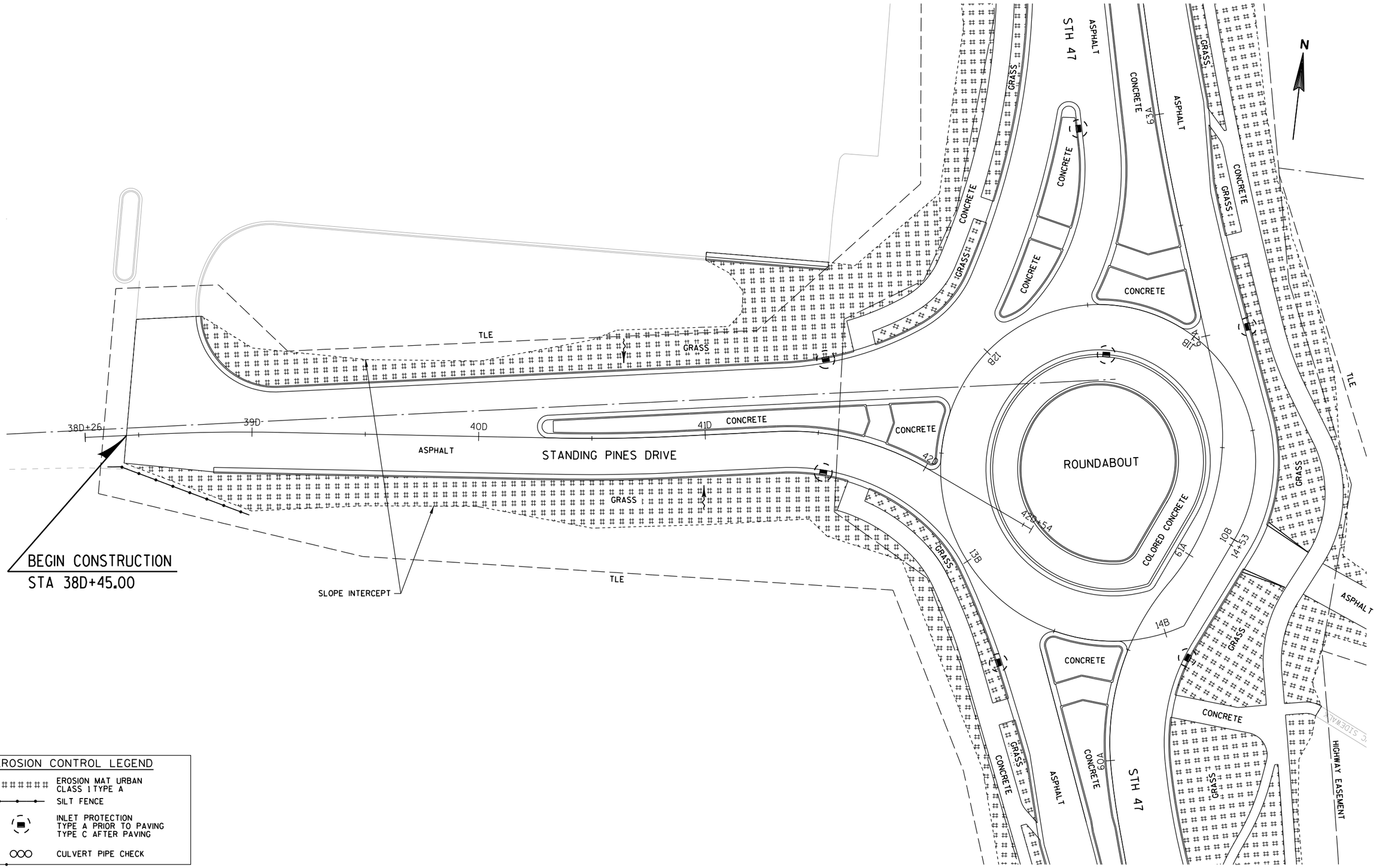
EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS 1 TYPE A
- SILT FENCE
- INLET PROTECTION TYPE A PRIOR TO PAVING TYPE C AFTER PAVING
- CULVERT PIPE CHECK

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	EROSION CONTROL	SHEET 49	E

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2

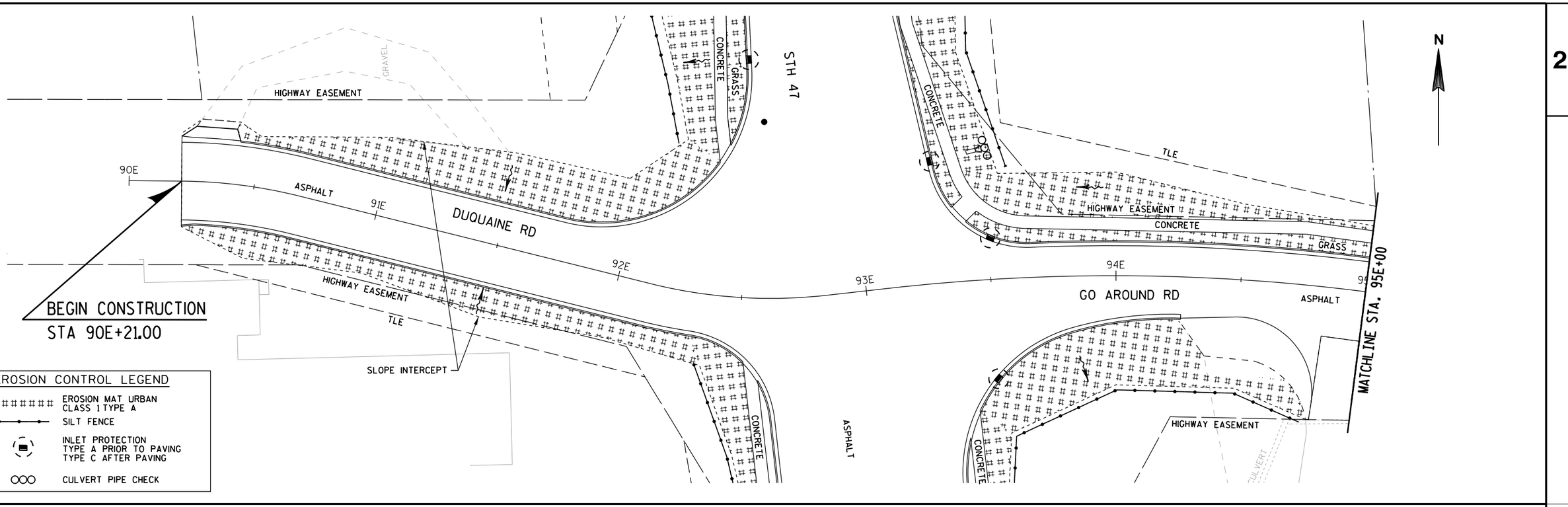


EROSION CONTROL LEGEND

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

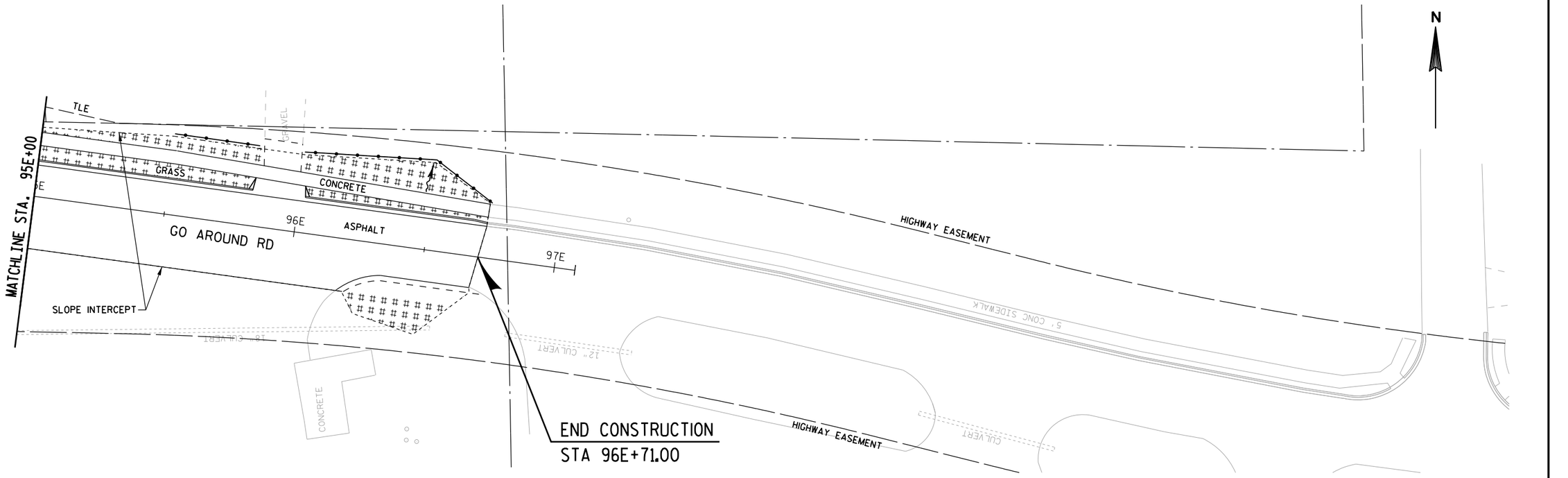
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BATCH PRINT SHEET 7 OF 8
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PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

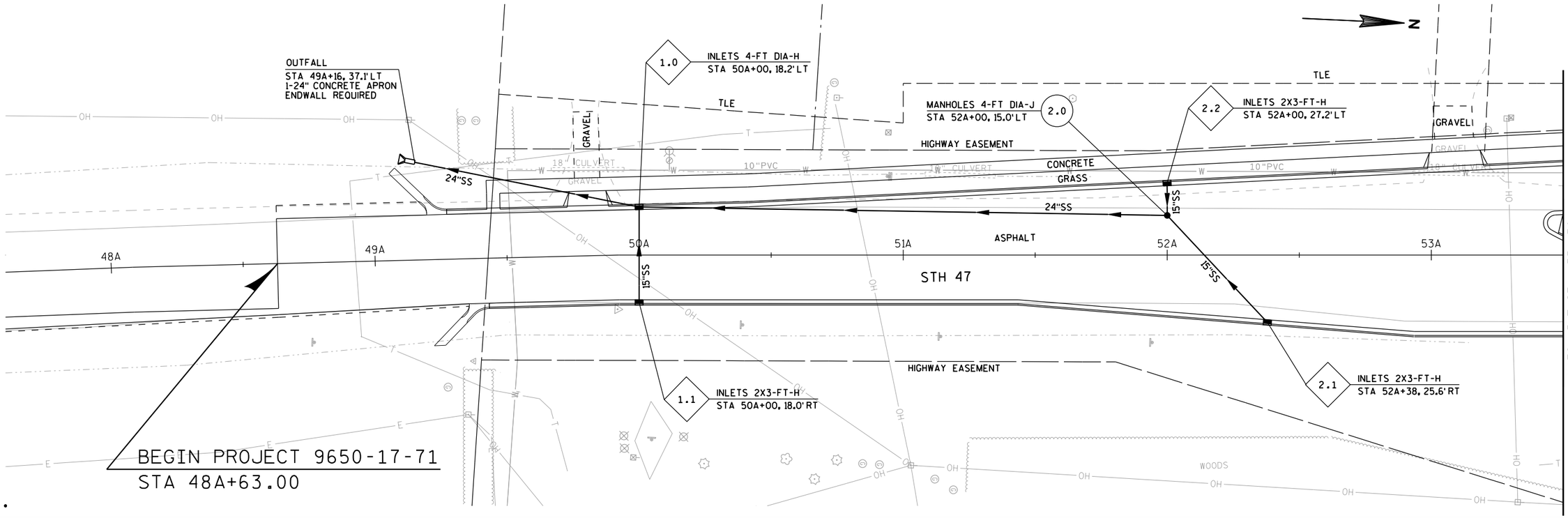


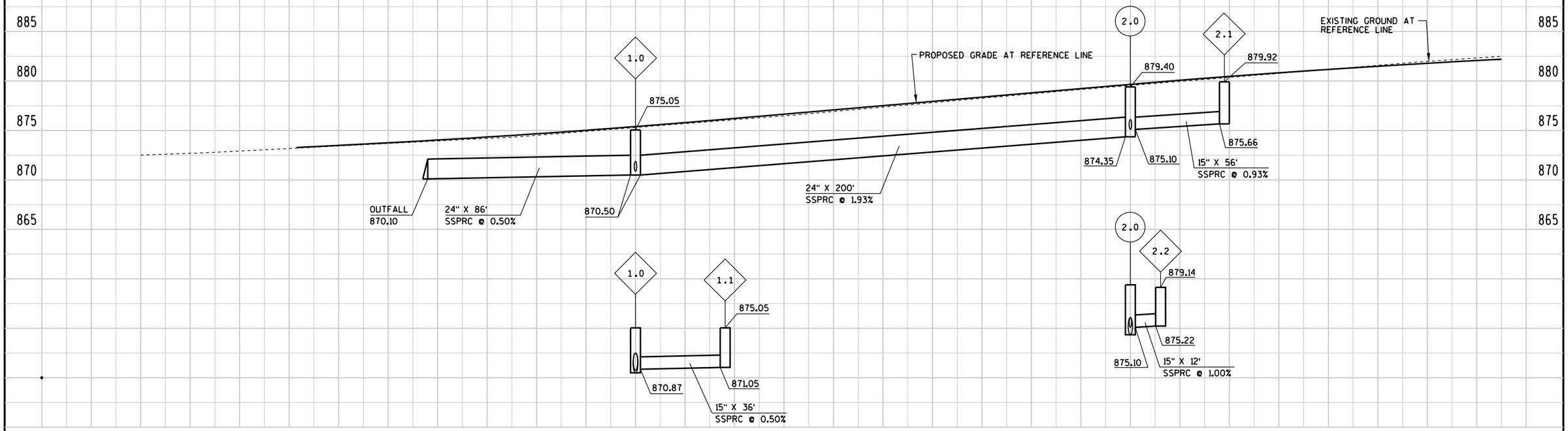
EROSION CONTROL LEGEND

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

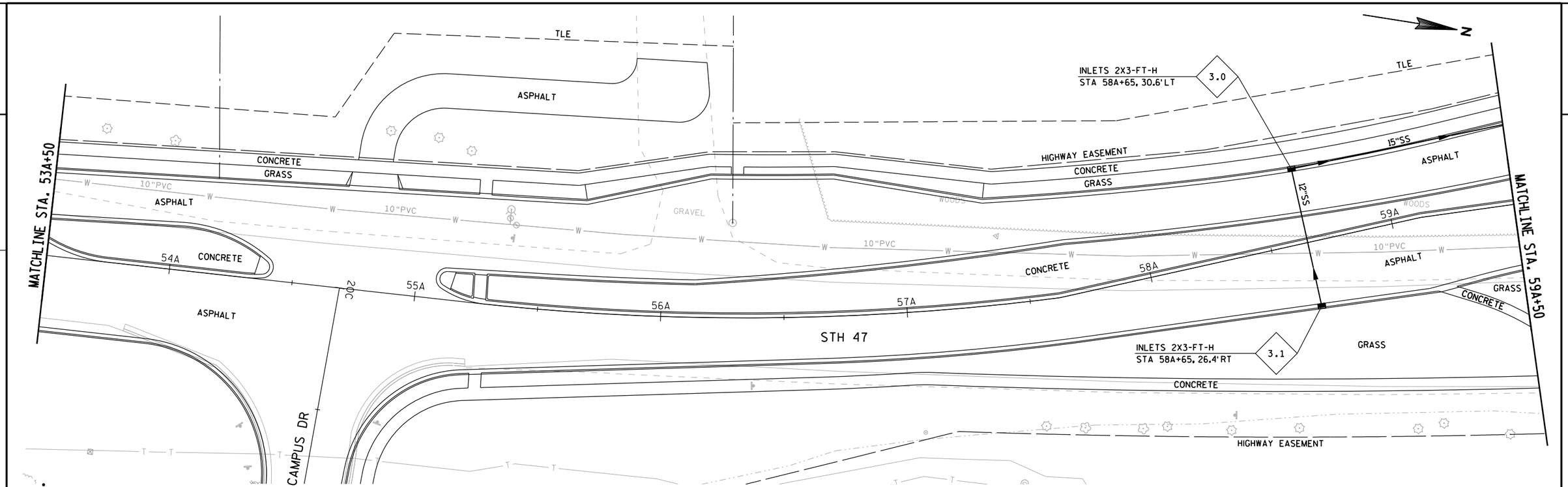


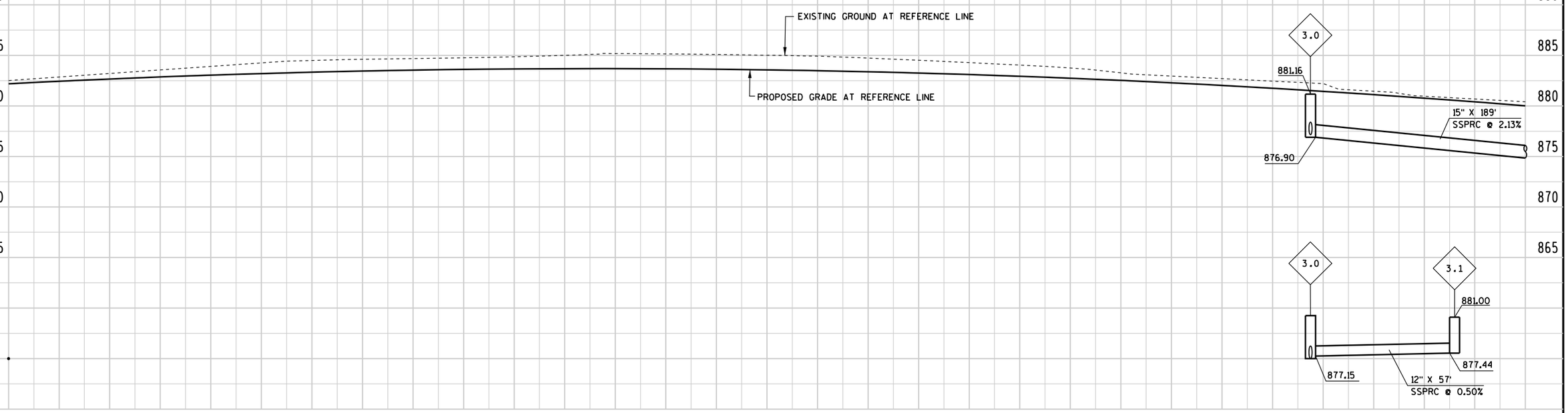
PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	EROSION CONTROL	SHEET 51	E





PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	STORM SEWER	SHEET 52	E





PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	STORM SEWER	SHEET 53	E

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PLOT TIME: 7:06:21 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 41

2

MANHOLES 6-FT DIA-H
STA 60A+59, 155'LT
5.0

15"SS

5.1
INLETS 2X3-FT-H
STA 62A+26, 165.8'LT

INLETS 4-FT DIA-H
STA 60A+32, 53.1'LT
4.0

TLE

24"SS

STANDING PINES DRIVE

N

7.0
MANHOLES 4-FT DIA-H
STA 62A+99, 36.3'LT

TLE

HIGHWAY EASEMENT

CONCRETE

15"SS

ASPHALT

138

42"CMP

128

24"SS

HIGHWAY EASEMENT

CONCRETE

ROUNDABOUT

MANHOLES 5-FT DIA-HM
STA 62A+02, 44.6'LT
6.0

STH 47

24"SS

24"SS

10"PVC

REMOVE INLET

REMOVE STORM SEWER
(6'X 12")

MATCHLINE STA. 59A+50

60A

STH 47 ASPHALT

15"SS

14B

61A

10B

14+53

63A

64A

65A

MATCHLINE STA. 65A+50

INLETS 2X3-FT-H
STA 60A+59, 25.5'RT
4.1

REMOVE MANHOLE

CONCRETE

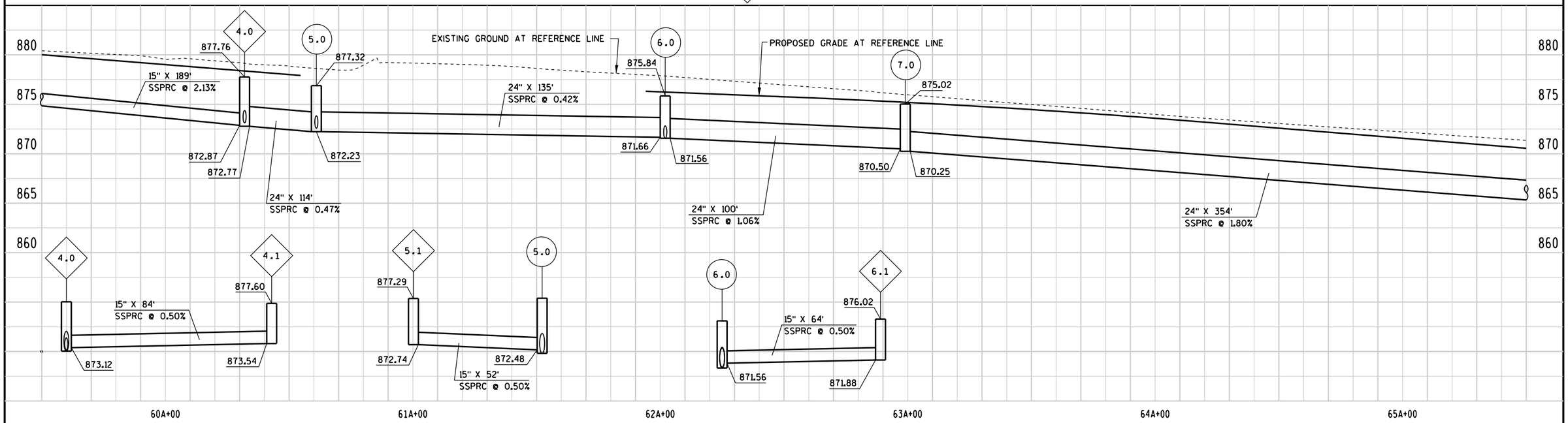
REMOVE STORM SEWER
(275' X 24")

CONCRETE

5' CONC SIDEWALK

6.1
INLETS 2X3-FT-H
STA 62A+00, 18.9'RT

HIGHWAY EASEMENT



PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	STORM SEWER	SHEET 54	E

FILE NAME: l:\work\projects\60158808\000.cad\001_drawings\sheets\022503_ss.dgn
BATCH PRINT SHEET 3 OF 7
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PLOT DATE: 11/1/2017
PLOT TIME: 7:06:24 AM
PLOT SCALE: 1:39.9999
WISDOT/CADDS SHEET 41

2

MANHOLES 5-FT DIA-H
STA 66A+50, 29.0'LT
8.0

MANHOLES 4-FT DIA-J
STA 68A+00, 18.0'LT
8.2

MANHOLES 5-FT DIA-H
STA 70A+00, 32.0'LT
9.0

INLETS 2X3-FT-H
STA 66A+50, 18.0'RT
8.1

INLETS 2X3-FT-H
STA 70A+00, 18.0'RT
9.1

MATCHLINE STA. 65A+50

MATCHLINE STA. 71A+50

STH 47

ASPHALT

CONCRETE

5' CONC SIDEWALK

TLE

HIGHWAY EASEMENT

GRAVEL

WOODS

15" CULVERT

10"PVC

10"HDPE

24"SS

15"SS

REMOVE INLET

REMOVE MANHOLE

REMOVE STORM SEWER
(6' X 12")

REMOVE STORM SEWER
(40' X 12")

REMOVE STORM SEWER
(300' X 24")

REMOVE STORM SEWER
(40' X 12")

REMOVE STORM SEWER
(301' X 24")

66A

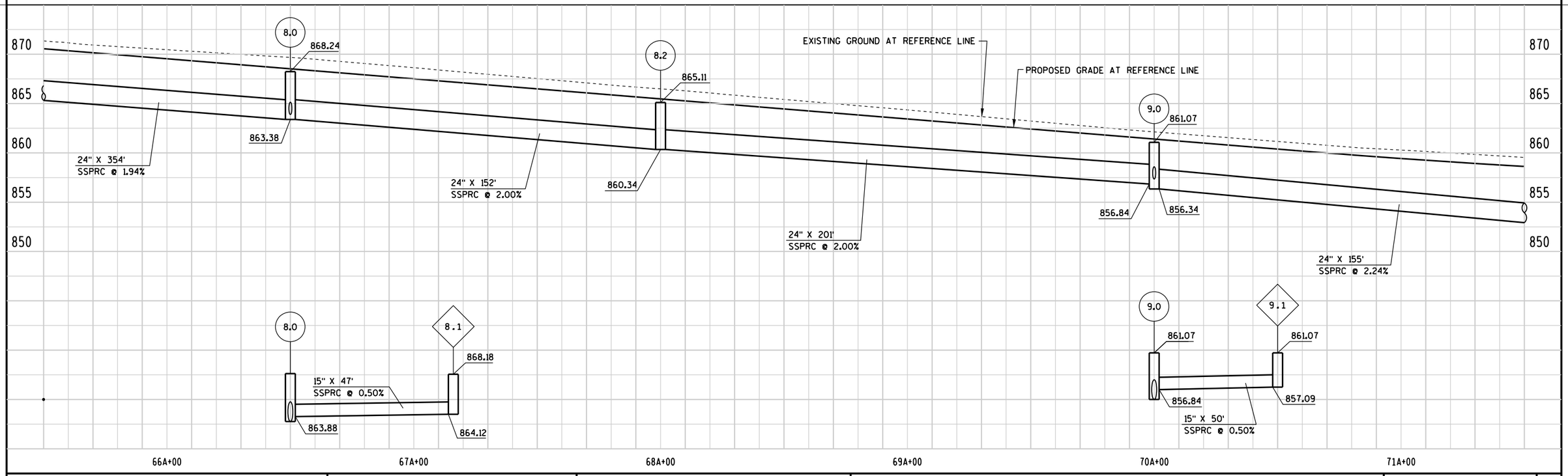
67A

68A

69A

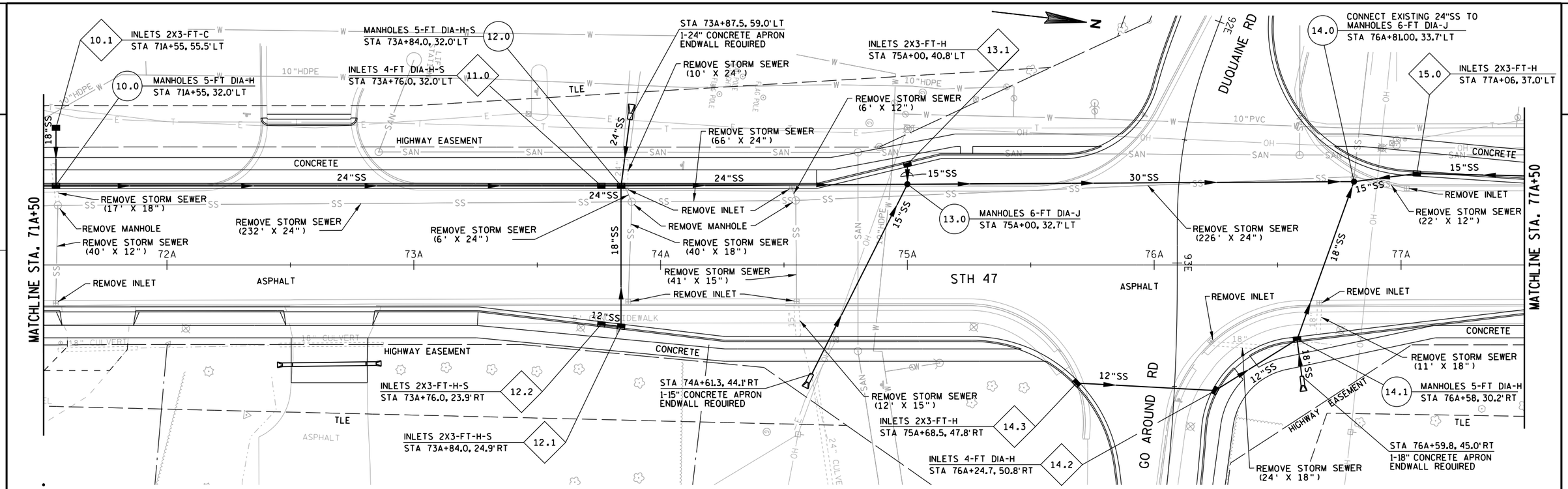
70A

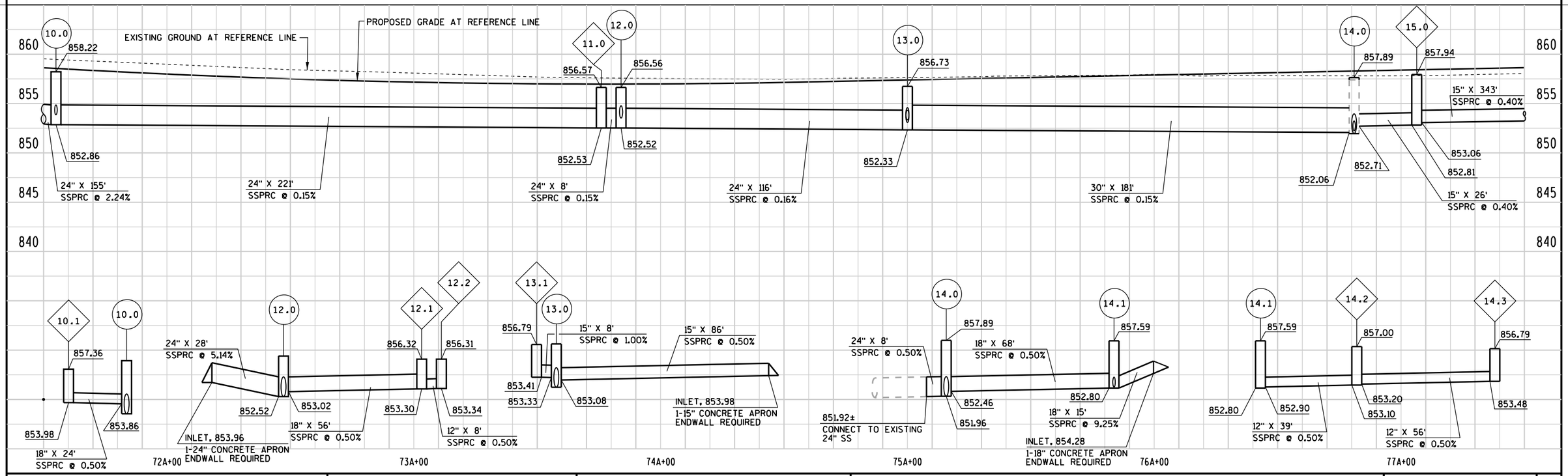
71A



PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	STORM SEWER	SHEET 55	E

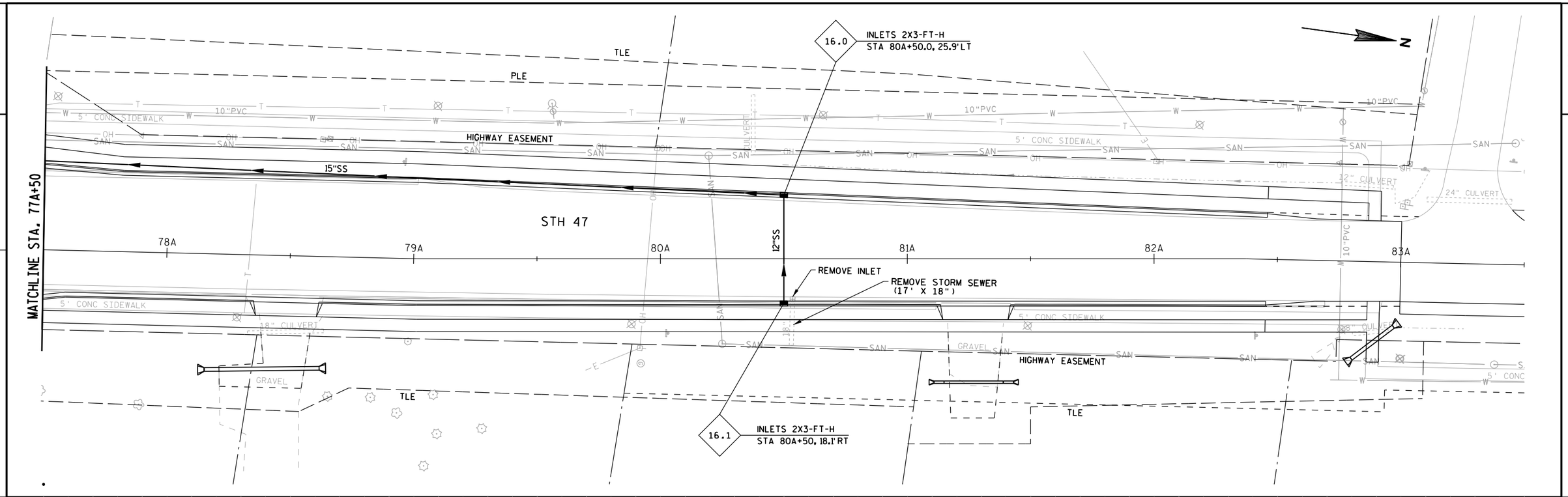
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PLOT TIME: 7:06:27 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 41

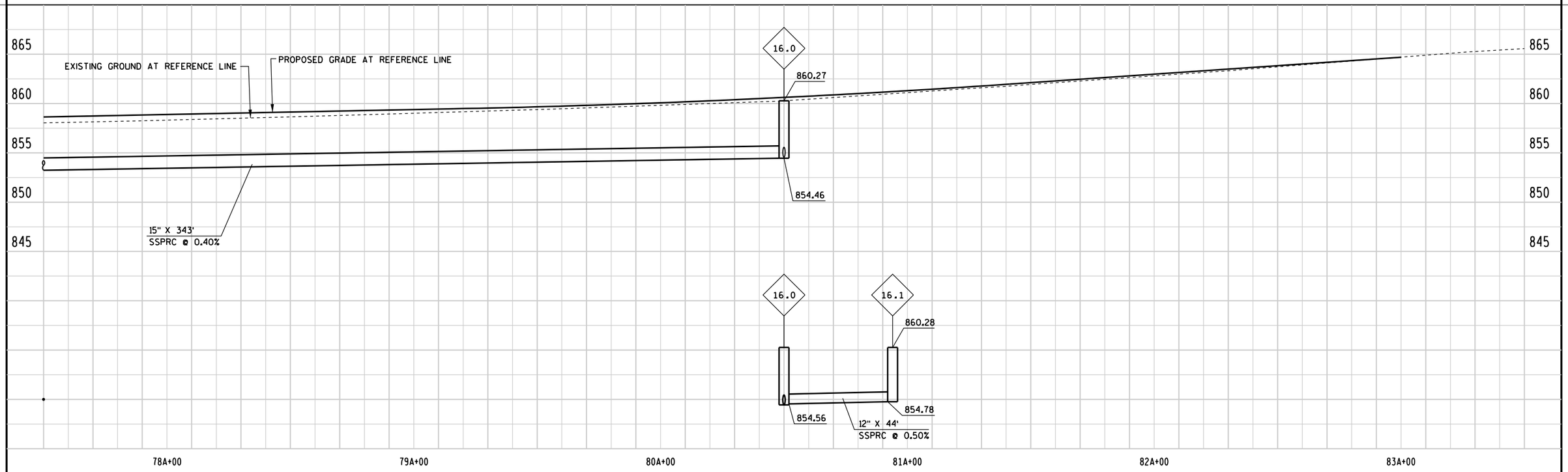




PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	STORM SEWER	SHEET E

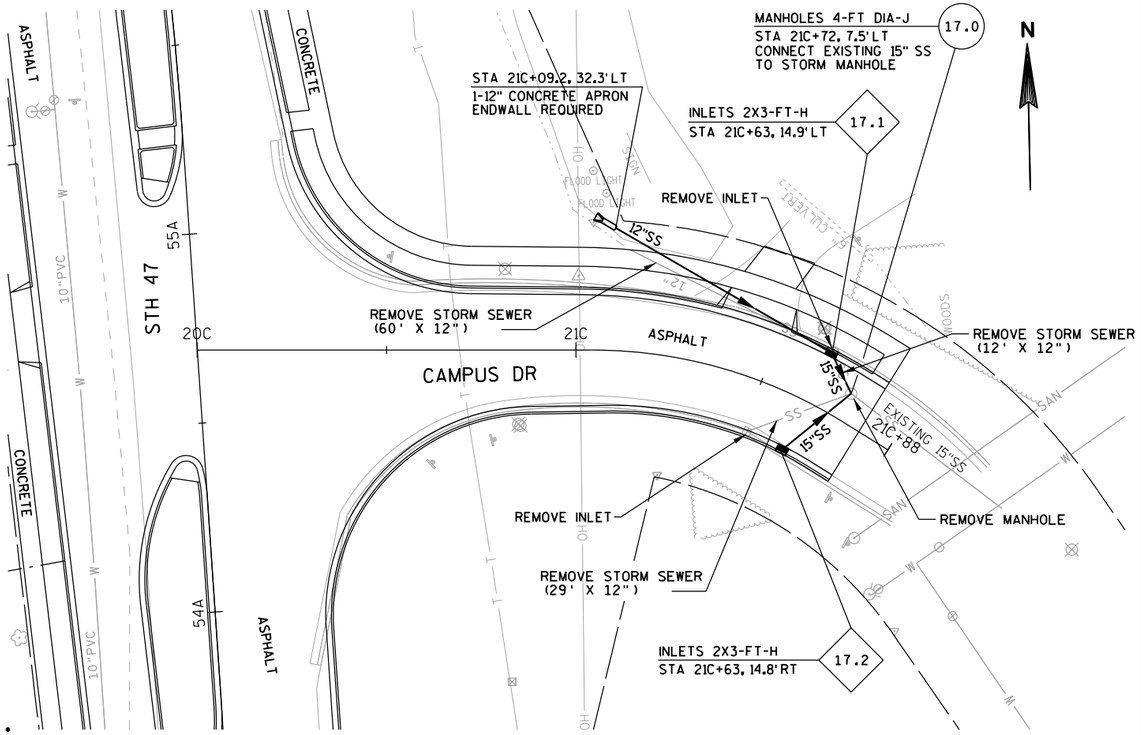
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BATCH PRINT SHEET 5 OF 7
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WISDOT/CADDS SHEET 41

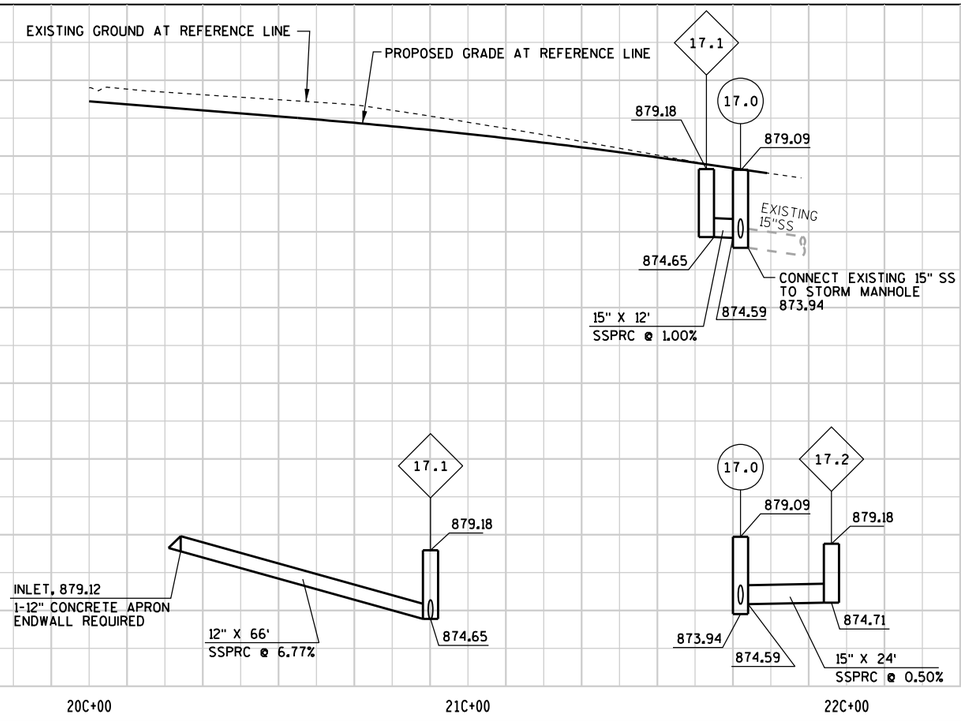




PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	STORM SEWER	SHEET 57	E

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WISDOT/CADDS SHEET 41





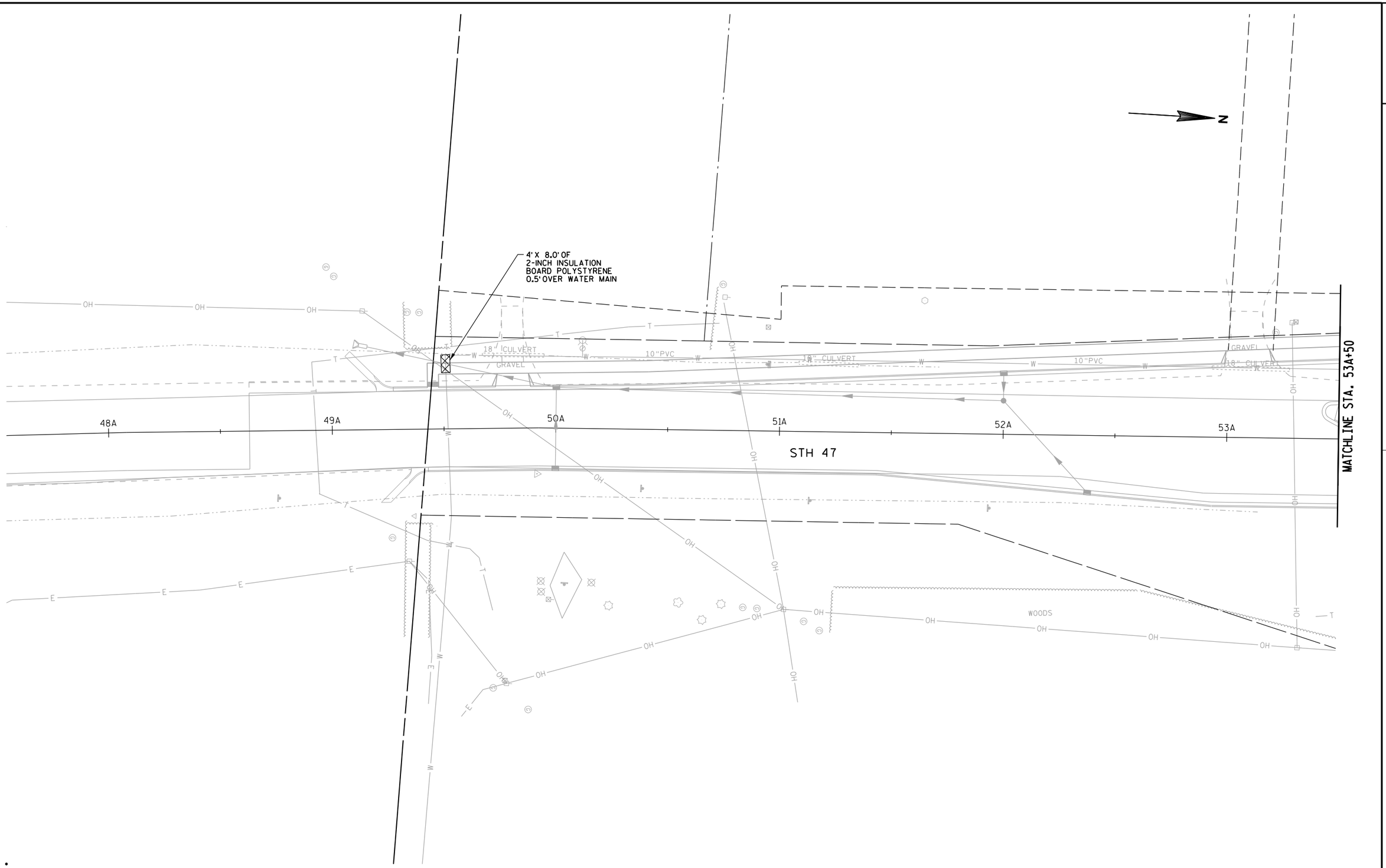
20C+00 21C+00 22C+00

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	STORM SEWER	SHEET 58	E

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WISDOT/CADDS SHEET 41

2

2



PROJECT NUMBER: 9650-17-72	HWY: STH 47	COUNTY: MENOMINEE	UTILITY IMPROVEMENTS	SHEET 59	E

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PLOT DATE: 11/1/2017
PLOT TIME: 7:22:23 AM
PLOT SCALE: 1:40

2

55A+35.3, 58.6' LT
EXTEND WEST
SALVAGED HYDRANT
TRACER WIRE ACCESS BOX
6" VALVE & ~~VALVE BOX~~
25'-6" WM
6" COUPLING

4' X 22.5' OF
2-INCH INSULATION
BOARD POLYSTYRENE
0.5' OVER WATER MAIN

NOTE:
PLACE VALVE & VALVE
BOX IN THE TERRACE

SALVAGE HYDRANT
& REMOVE WATERMAIN
VALVE AND VALVE BOX

N

MATCHLINE STA. 53A+50

MATCHLINE STA. 59A+50

W 10"PVC W W 10"PVC W W W W W W W W

GRAVEL

WOODS

WOODS

54A 55A 56A 57A 58A 59A

202

4' X 100.0' OF
2-INCH INSULATION
BOARD POLYSTYRENE
0.5' OVER WATER MAIN

STH 47

4' X 1254.0' OF
2-INCH INSULATION
BOARD POLYSTYRENE
0.5' OVER WATER MAIN

T T T

2

2

STANDING PINES DRIVE

41D

42D

42D+54

13B

12B

62+77.12, 103.1' LT
END 10" WATER MAIN
10" END CAP REQUIRED

62A+76.4, 94.1' LT
STANDARD HYDRANT
TRACER WIRE ACCESS BOX
6" VALVE & VALVE BOX
10'-6" WATER MAIN
10"X6" TEE

4' X 7.0' OF
2-INCH INSULATION
BOARD POLYSTYRENE
0.5' OVER WATER MAIN

4' X 73.0' OF
2-INCH INSULATION
BOARD POLYSTYRENE
0.5' OVER WATER MAIN

62A+71.7, 43.8' LT
10" VALVE & VALVE BOX

62A+70.2, 28.5' LT
CONNECT 10" WM
TO EXISTING 10"X10" TEE
CONTRACTOR TO VERIFY
HORIZ & VERT LOCATION

REMOVE HYDRANT
REMOVE WATERMAIN VALVE AND VALVE BOX
CAP WATERMAIN TO REMAIN IN SERVICE

10" WM

STH 47

STH 47

ROUNDABOUT

60A

65A

64A

63A

14B

61A

11B

62A

10B

14+53

MATCHLINE STA. 59A+50

MATCHLINE STA. 65A+50

WOODS

10" PVC

SS

OH

5' CONC SIDEWALK

24" CULVERT

6" CULVERT

ASPHALT

4' X 1254.0' OF
2-INCH INSULATION
BOARD POLYSTYRENE
0.5' OVER WATER MAIN

N

PROJECT NUMBER: 9650-17-72	HWY: STH 47	COUNTY: MENOMINEE	UTILITY IMPROVEMENTS	SHEET 61	E

FILE NAME: L:\Work\Projects\60158808\000.CAD\001_Drawings\Sheets\023003_up.dgn
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PLOT DATE: 11/1/2017
PLOT TIME: 7:22:28 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

2

65A+79.3, 55.5' LT
EXTEND WEST
SALVAGED HYDRANT
TRACER WIRE ACCESS BOX
6" VALVE & VALVE BOX
36'-6" WM
6" COUPLING

4' X 33.5' OF
2-INCH INSULATION
BOARD POLYSTYRENE
0.5' OVER WATER MAIN

4' X 1254.0' OF
2-INCH INSULATION
BOARD POLYSTYRENE
0.5' OVER WATER MAIN

SALVAGE HYDRANT

ADJUST VALVES

ADJUST HYDRANT
HYDRANT EXTENSION REQUIRED

ADJUST VALVE
VALVE BOX EXTENSION REQUIRED

N

MATCHLINE STA. 65A+50

MATCHLINE STA. 71A+50

STH 47

66A 67A 68A 69A 70A 71A

ASPHALT

WOODS

GRAVEL

15" CULVERT

10" HDPE

5' CONC SIDEWALK

OH

SS

W

PROJECT NUMBER: 9650-17-72	HWY: STH 47	COUNTY: MENOMINEE	UTILITY IMPROVEMENTS	SHEET 62	E

FILE NAME: L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\023004_up.dgn
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PLOT DATE: 11/1/2017
PLOT TIME: 7:22:31 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

MATCHLINE STA. 71A+50

MATCHLINE STA. 77A+50

STH 47

DUQUAINE RD

GO AROUND RD

ADJUSTING MANHOLES

ADJUST VALVE

ADJUSTING MANHOLES

ADJUSTING MANHOLES

ADJUST VALVE

ADJUSTING MANHOLES

4' X 8.0' OF 2-INCH INSULATION BOARD POLYSTYRENE 0.5' OVER WATER MAIN

4' X 8.0' OF 2-INCH INSULATION BOARD POLYSTYRENE 0.5' OVER SANITARY SEWER

74A+91.6, 47.4' RT
SALVAGED HYDRANT
TRACER WIRE ACCESS BOX
6" VALVE & VALVE BOX
22'-6" WM
6"X8" TAPPING SLEEVE

SALVAGE HYDRANT, ABANDON VALVE & LEAD AT WATER MAIN CAP WATERMAIN TO REMAIN IN SERVICE

72A 73A 74A 75A 76A 77A

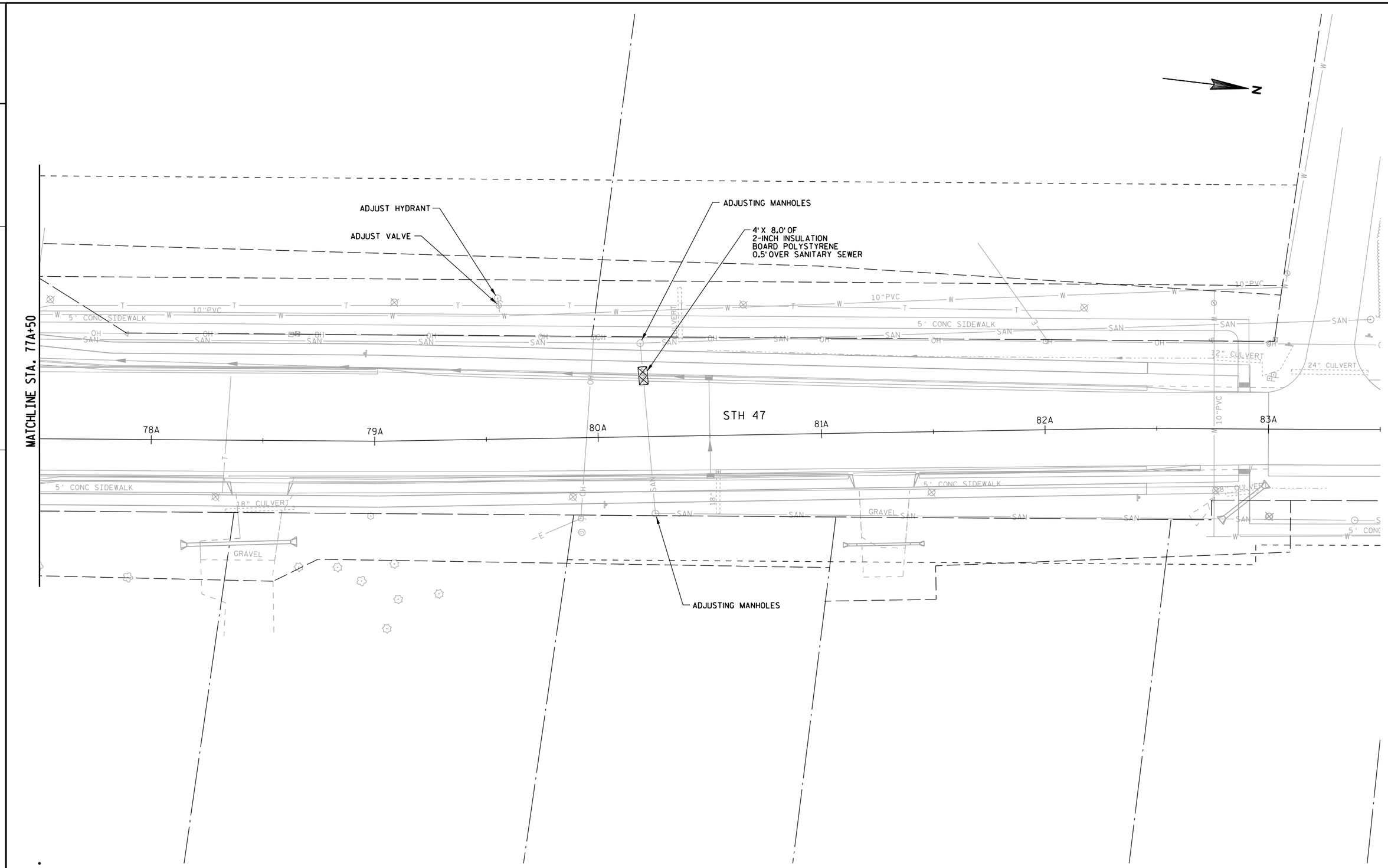
92E 93E 94E 95E

10"HDPE 10"PVC 18" CULVERT 24" CULVERT 5' CONC SIDEWALK ASPHALT CONCRETE

PROJECT NUMBER: 9650-17-72	HWY: STH 47	COUNTY: MENOMINEE	UTILITY IMPROVEMENTS	SHEET 63	E

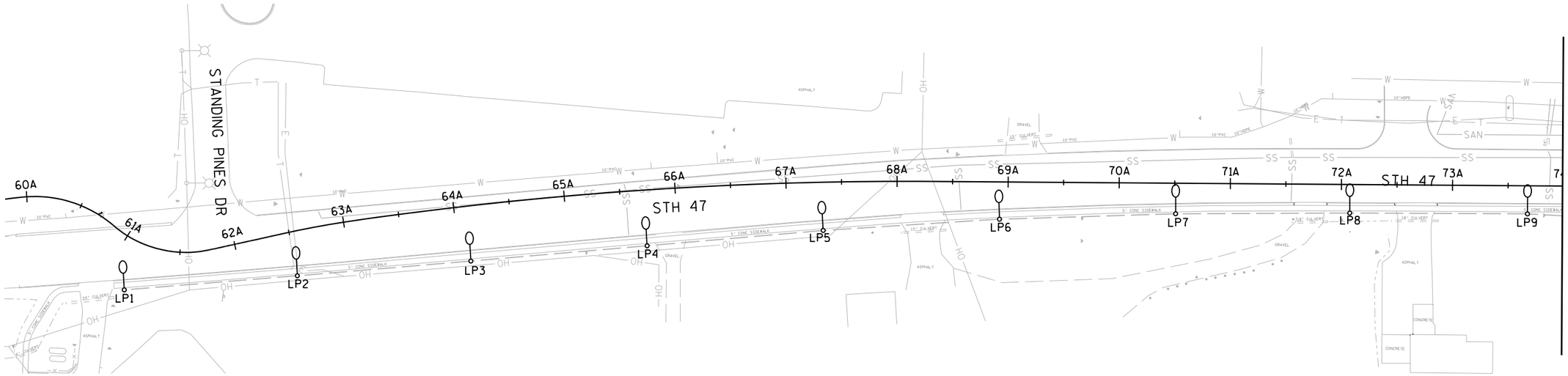
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WISDOT/CADDS SHEET 42

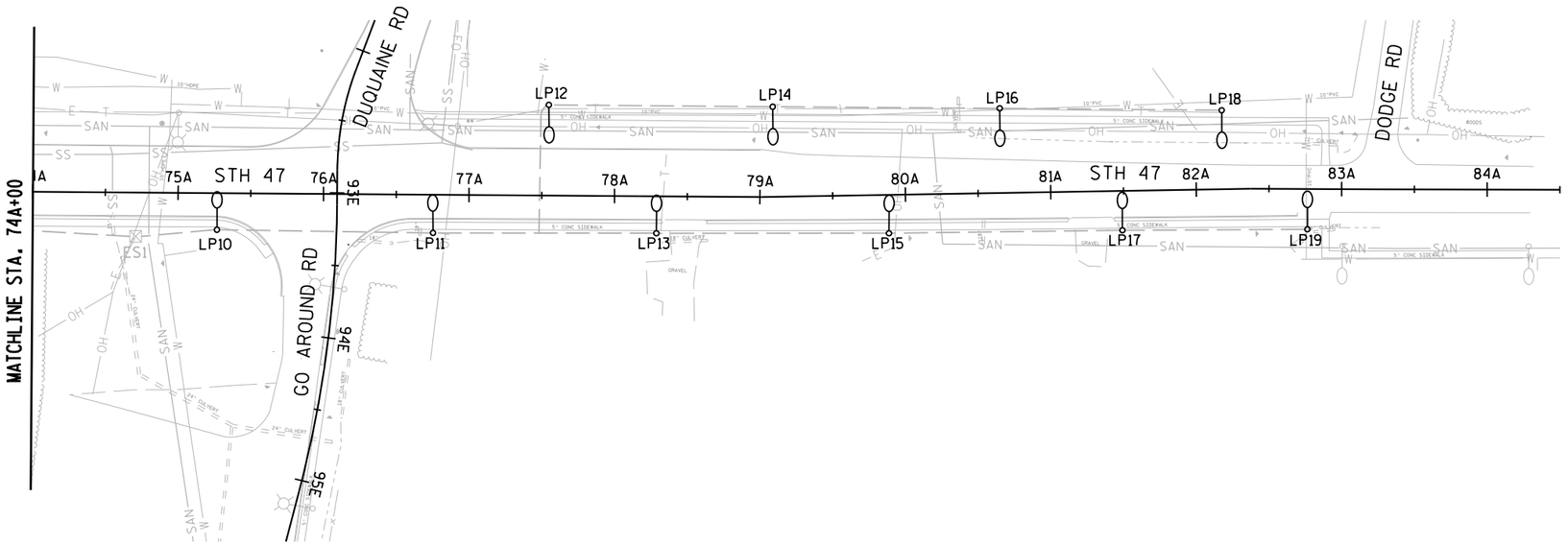
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PROJECT NUMBER: 9650-17-72	HWY: STH 47	COUNTY: MENOMINEE	UTILITY IMPROVEMENTS	SHEET 64	E

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PLOT TIME: 7:22:36 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42





LEGEND

- ⊠ ELECTRICAL SERVICE METER TO BE REMOVED BY OTHERS
- SINGLE ARM LIGHTING UNIT
- CONDUIT

NOTE

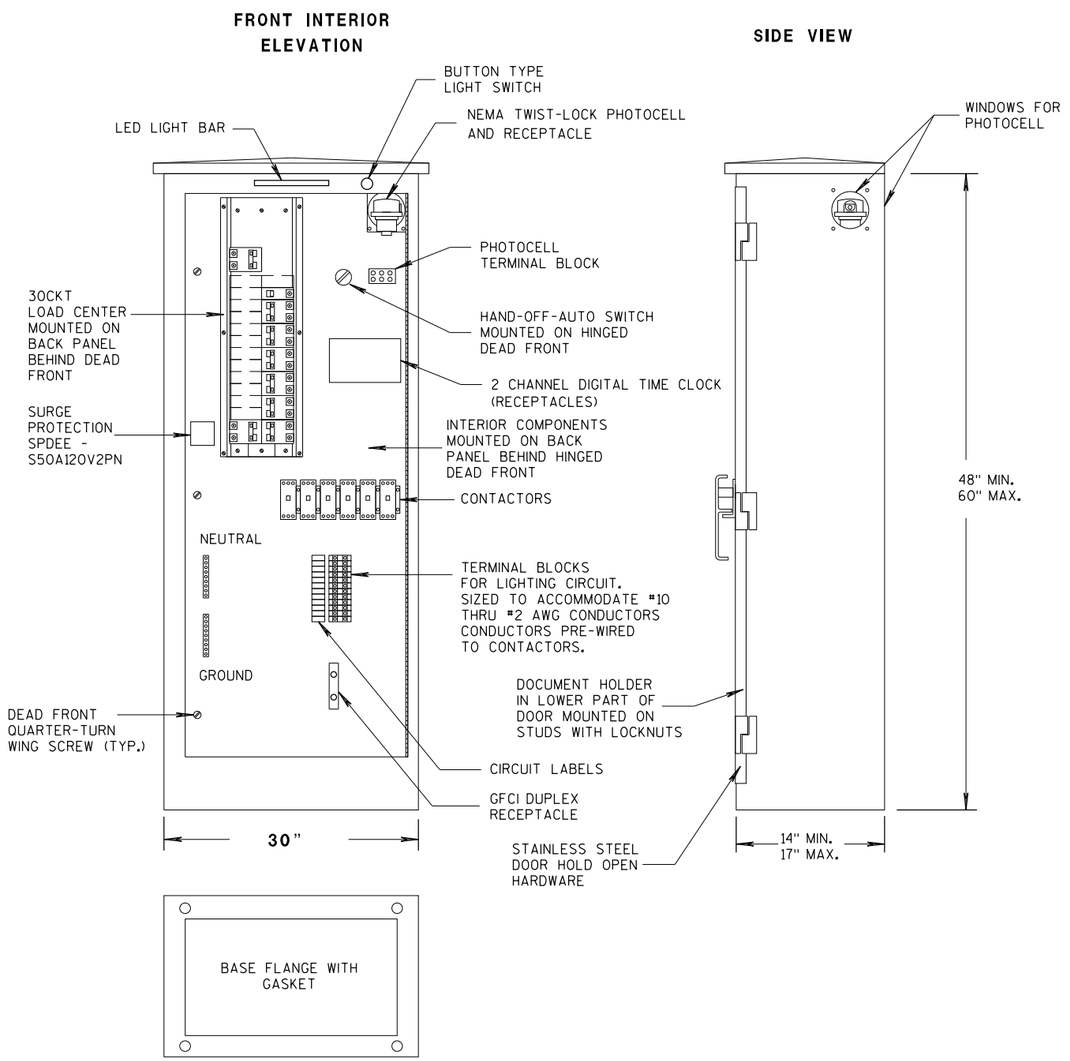
1. GRAYSHADE REPRESENTS EXISTING ROADWAY, CONDUIT TO BE ABANDONED, AND UTILTIES.
2. BOLD RESPRESENTS LIGHTING UNITS TO BE REMOVED AND SALVAGED.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.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

HIGHWAY LIGHTING
STH 47
VILLAGE OF KESHENA
SHAWANO COUNTY LINE TO DUQUAINE RD
MENOMINEE COUNTY
OCTOBER 2017 PAGE 1 OF 1

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	LIGHTING REMOVAL PLAN	SHEET 65	E

FILE NAME: L:\work\projects\60158808\000.CAD\001_Drawings\Lighting Design\Lighting Removal_Shtl.dgn
BATCH PRINT SHEET 1 OF 5
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PLOT DATE: 10/10/2017
PLOT TIME: 9:33:10 AM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42

2



GENERAL NOTES

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

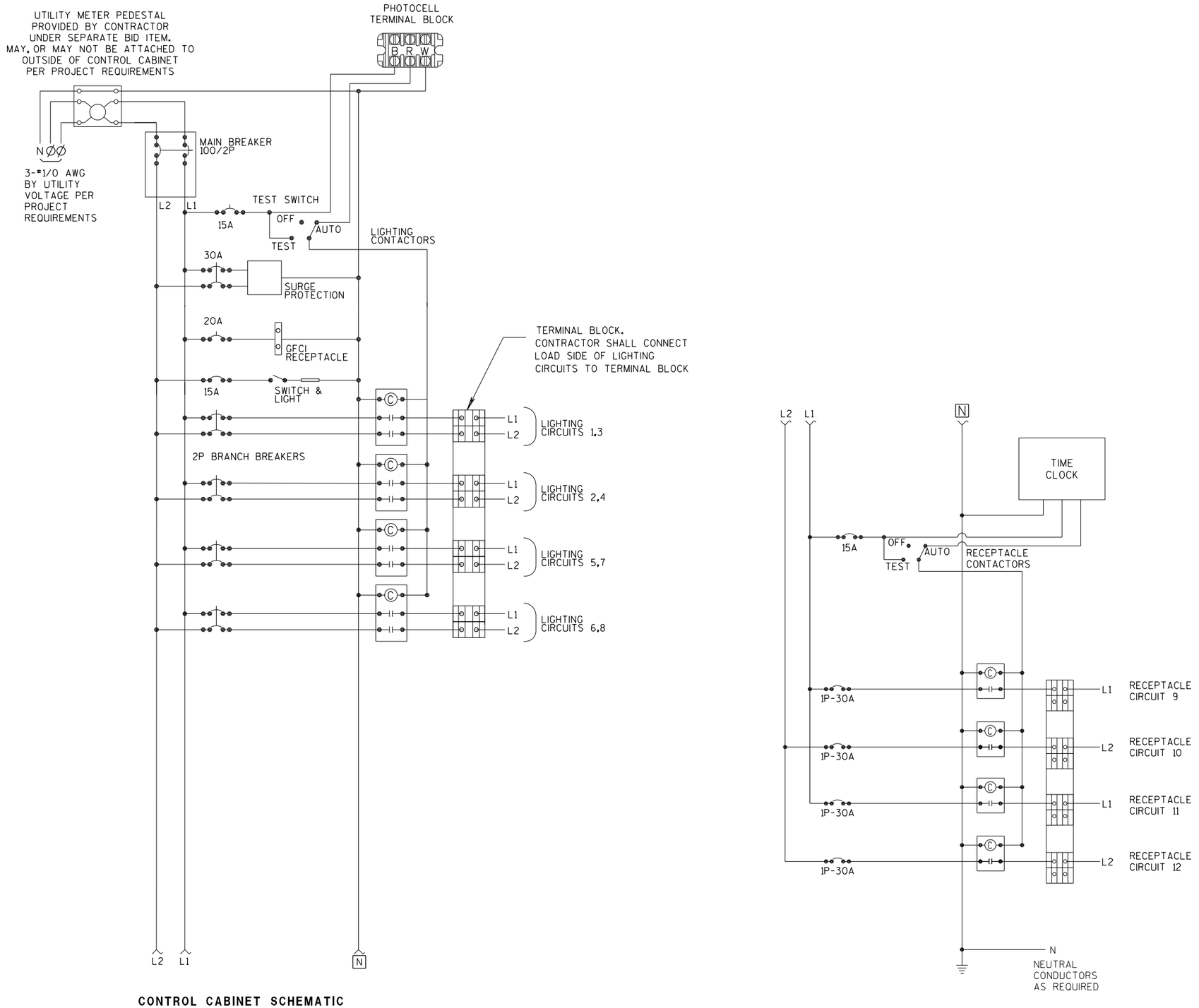
ORIENT PHOTOCELL AWAY FROM AMBIENT LIGHT SOURCES AND ONCOMING TRAFFIC HEADLIGHTS.

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

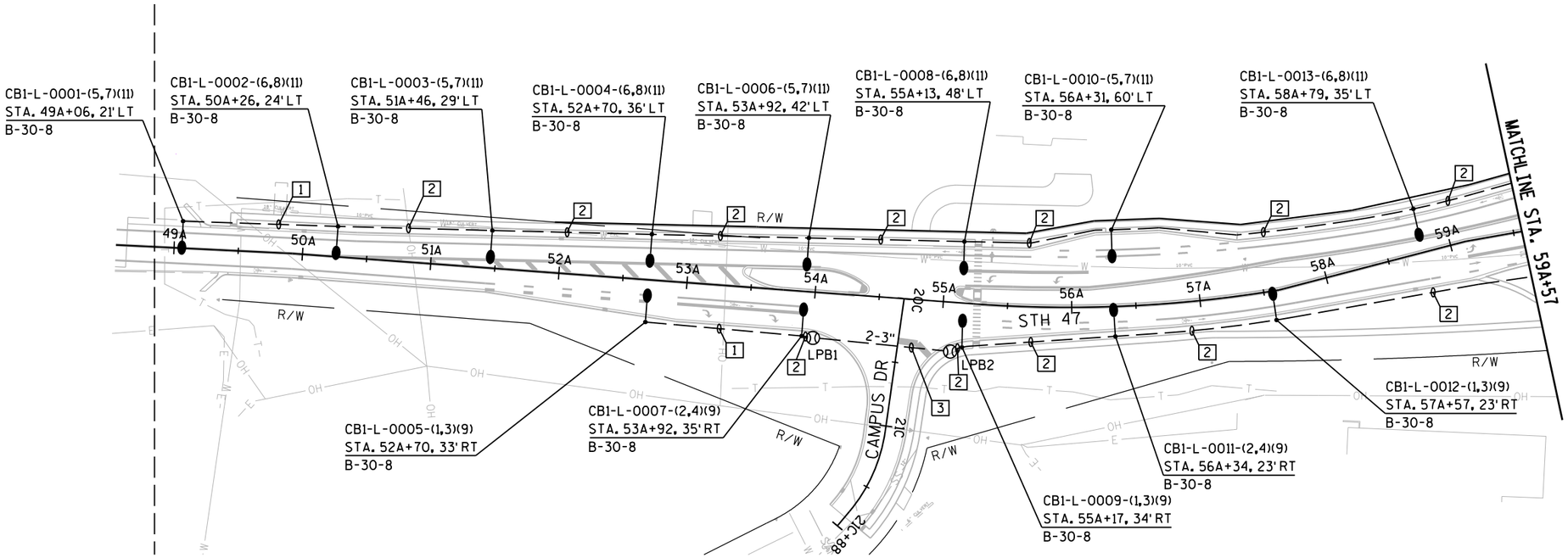
LIGHTING CONTROL CABINET - LAYOUT
NO SCALE SHEET 1 OF 2

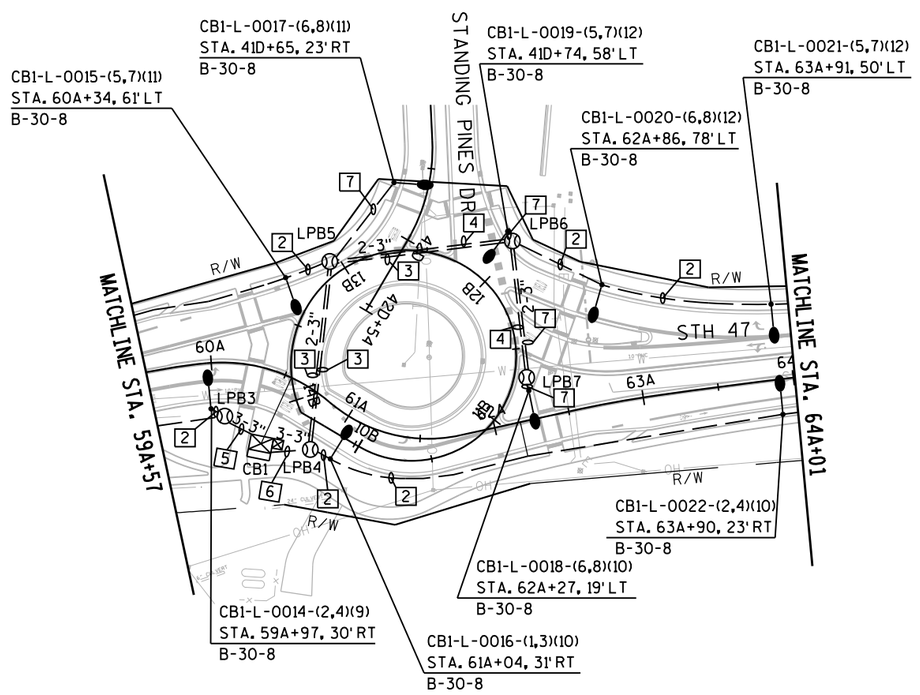


CONTROL CABINET SCHEMATIC

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	LIGHTING - CONSTRUCTION DETAILS-CONTROL CABINET SCHEMATICS	SHEET 67	E

FILE NAME: L:\work\projects\60158808\000_CAD\001_Drawings\Lighting Design\cabinet detail_2.dgn
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PLOT DATE: 10/10/2017
PLOT TIME: 9:33:13 AM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42





1	(4)#8 AND (1)#8 GROUND IN 2" C
2	(6)#8 AND (1)#8 GROUND IN 2" C
3	(6)#8 AND (1)#8 GROUND IN 3" C
4	1-3" C EMPTY
5	(6)#8 AND (1)#8 GROUND IN 3-3" C
6	(14)#8 AND (3)#8 GROUND IN 3-3" C
7	(8)#8 AND (1)#8 GROUND IN 3" C

NOTE

1. GRAYSHADE REPRESENTS EXISTING & PROPOSED ROADWAY AND UTILTIES.
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 A SEPARATE 120 VOLT FESTOON RECEPTACLE CIRCUIT TO EACH LIGHT POLE.
4. MOUNT FESTOON OUTLETS 10 FEET ABOVE TRANSFORMER BASE WITH A 20 AMP/125 VOLT, GFCI TYPE RECEPTACLE AND WEATHERPROOF ENCLOSURE AND COVER.

LEGEND

- CONCRETE CONTROL CABINET BASE
- SINGLE ARM LIGHTING UNIT
- PULL BOX 24"X42"
- ELECTRICAL SERVICE METER
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED

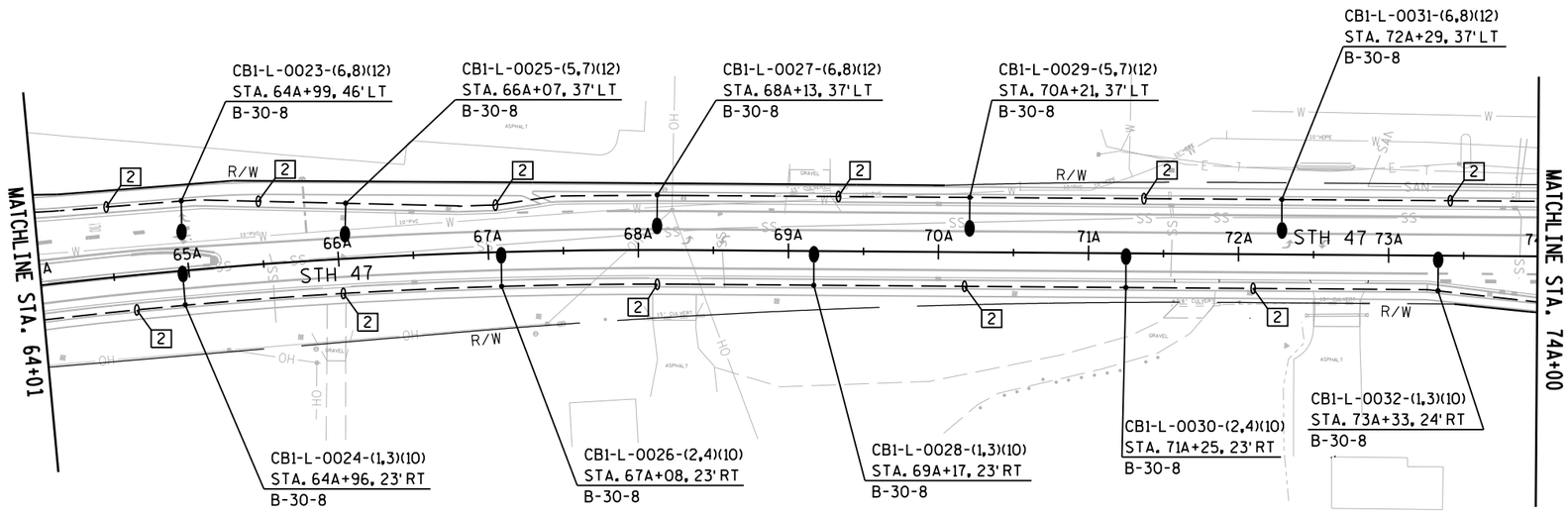
CB1-L-XXXX-(*,*)(*)
STA. 71A+20, 35'LT
A-30-6

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

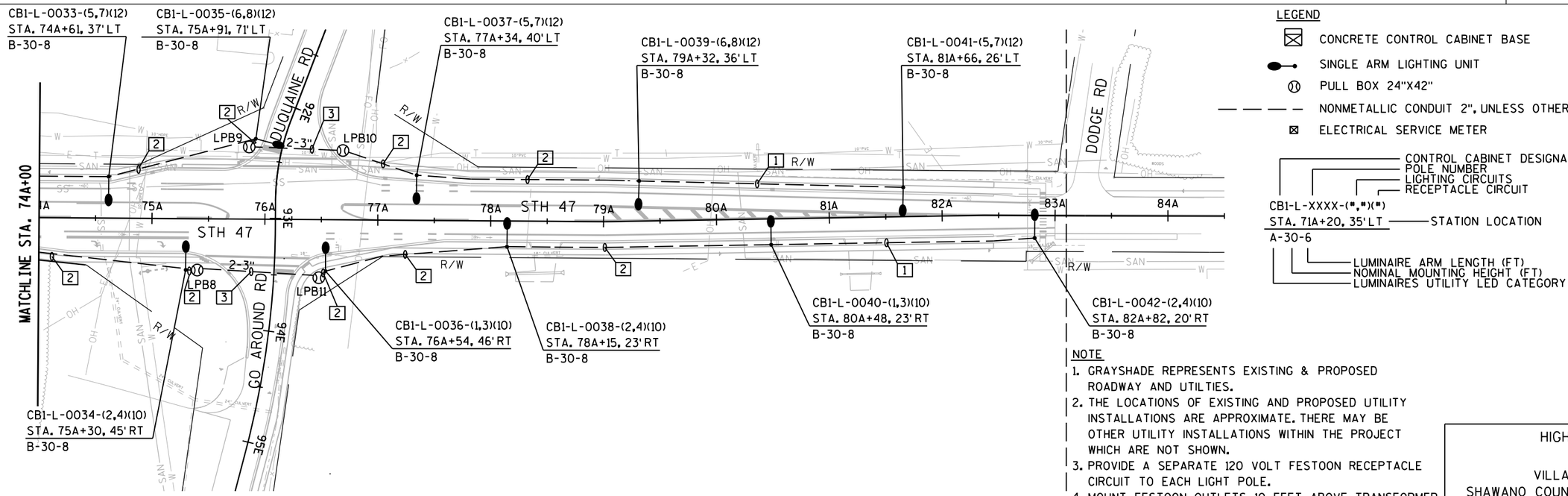
HIGHWAY LIGHTING
STH 47
VILLAGE OF KESHENA
SHAWANO COUNTY LINE TO DUQUAINE RD
MENOMINEE COUNTY
OCTOBER 2017 PAGE 1 OF 2

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	LIGHTING PLAN	SHEET 68	E

FILE NAME: L:\work\projects\60158808\000.CAD\001_Drawings\Lighting Design\Lighting_Sht1.dgn
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PLOT TIME: 9:33:15 AM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42



1	(4)#8 AND (1)#8 GROUND IN 2" C
2	(6)#8 AND (1)#8 GROUND IN 2" C
3	(6)#8 AND (1)#8 GROUND IN 3" C
4	1-3" C EMPTY
5	(6)#8 AND (1)#8 GROUND IN 3-3" C
6	(14)#8 AND (3)#8 GROUND IN 3-3" C
7	(8)#8 AND (1)#8 GROUND IN 3" C



LEGEND

- CONCRETE CONTROL CABINET BASE
- SINGLE ARM LIGHTING UNIT
- PULL BOX 24"X42"
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- ELECTRICAL SERVICE METER

CB1-L-XXXX-(*,*)(*)
- CONTROL CABINET DESIGNATION
- POLE NUMBER
- LIGHTING CIRCUITS
- RECEPTACLE CIRCUIT

STA. 71A+20, 35'LT — STATION LOCATION

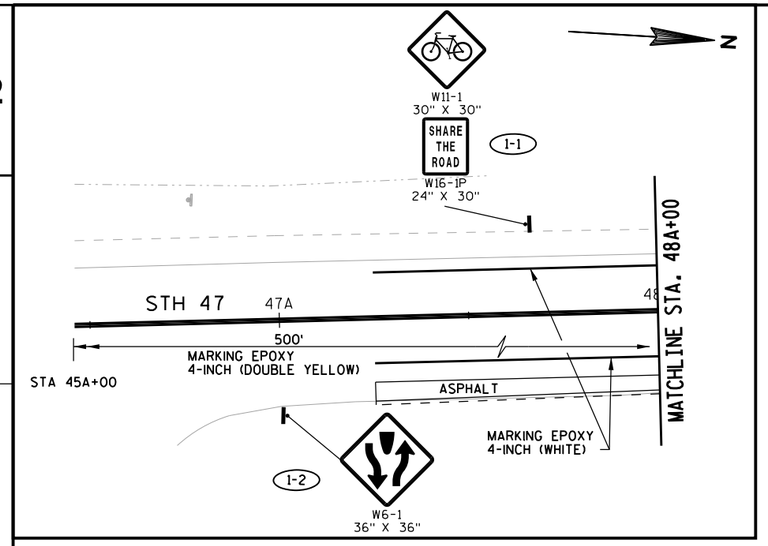
A-30-6
- LUMINAIRE ARM LENGTH (FT)
- NOMINAL MOUNTING HEIGHT (FT)
- LUMINAIRES UTILITY LED CATEGORY

NOTE
1. GRAYSHADE REPRESENTS EXISTING & PROPOSED ROADWAY AND UTILTIES.
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 A SEPARATE 120 VOLT FESTOON RECEPTACLE CIRCUIT TO EACH LIGHT POLE.
4. MOUNT FESTOON OUTLETS 10 FEET ABOVE TRANSFORMER BASE WITH A 20 AMP/125 VOLT, GFCI TYPE RECEPTACLE AND WEATHERPROOF ENCLOSURE AND COVER.

HIGHWAY LIGHTING
STH 47
VILLAGE OF KESHENA
SHAWANO COUNTY LINE TO DUQUAINE RD
MENOMINEE COUNTY
OCTOBER 2017 PAGE 2 OF 2

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	LIGHTING PLAN	SHEET 69 E

FILE NAME: L:\work\projects\60158808\000.CAD\001_Drawings\Lighting Design\Lighting_Sht2.dgn
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PLOT TIME: 9:33:17 AM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42



LEGEND - PAVEMENT MARKING

A1	ARROWS EPOXY TYPE 1 (WHITE)
A2	ARROWS EPOXY TYPE 2 (WHITE)
A2R	ARROWS EPOXY TYPE 2R (WHITE)
A3R	ARROWS EPOXY TYPE 3R (WHITE)
A4	ARROWS BIKE LANE EPOXY (WHITE)
BL	SYMBOLS BIKE LANE EPOXY (WHITE)
CU	CURB EPOXY (YELLOW)
CW	CROSSWALK EPOXY 6-INCH (WHITE)
NO	ISLAND NOSE EPOXY (YELLOW)
SL	STOP LINE EPOXY 18-INCH (WHITE)
WO	WORDS EPOXY (WHITE)

BEGIN PROJECT 9650-17-71
STA 48A+63.00

W6-3
36" X 36"
1-3
R3-17
30" X 24"
BIKE LANE
ENDS
1-4
R3-17B
30" X 12"
Shawano Co
I2-2
66" X 15"
1-5
Shawano Co
REMOVE
1-6
DO NOT ENTER
R5-1
30" X 30"
1-7
WRONG WAY
R5-1A
36" X 24"
1-8
W6-2
36" X 36"
1-9
MARKING EPOXY
4-INCH (DOUBLE YELLOW)
MARKING DIAGONAL
EPOXY 12-INCH (YELLOW)
AT 25' SPACING
MATCHLINE STA. 48A+00
STH 47
49A
50A
51A
52A
53A
BOX-OUT
MATCHLINE STA. 53A+50
BL
A4
500'
MARKING EPOXY 4-INCH (DOUBLE YELLOW)
WO
MARKING EPOXY
4-INCH (WHITE)
SIGN MONUMENT
R3-17
30" X 24"
BIKE LANE
AHEAD
R3-17A
30" X 12"
1-10
SPEED LIMIT 35
REMOVE
1-11
SPEED LIMIT 35
R2-1
24" X 30"
1-12
BEGIN RIGHT TURN LANE YIELD TO BIKES
R4-4
36" X 30"
1-15
WOODS
MOVE
1-16
MARKING EPOXY 4-INCH
(WHITE SKIPS - 3' LINE, 9' GAPS)
MARKING EPOXY 8-INCH
(WHITE SKIPS - 3' LINE, 9' GAPS)
MARKING EPOXY
4-INCH (WHITE)
MARKING EPOXY
8-INCH (WHITE)
R4-7
24" X 30"
1-17
Menominee Co
& Reservation
I2-2R
72" X 24"
1-13
Menominee Co
& Reservation
REMOVE
1-14
IT'S OUR LAW
REMOVE

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	PERMANENT SIGNING AND PAVEMENT MARKING - STH 47	SHEET 70	E

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PLOT TIME: 12:47:21 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

MATCHLINE STA. 53A+50

MATCHLINE STA. 59A+50

STH 47

CAMPUS DR

R4-7
24" X 30"
2-1

W11-2
30" X 30"
W16-7L
24" X 12"
2-2

R7-7R
18" X 24"
2-3

R7-7L
18" X 24"
2-4

R3-20L
24" X 36"
2-5

M3-3
24" X 12"
47
M1-6
24" X 24"
55
M1-6
24" X 24"
2-6

MARKING EPOXY 4-INCH (YELLOW)

MARKING EPOXY 4-INCH (WHITE)

MARKING EPOXY 8-INCH (WHITE)

MARKING EPOXY 4-INCH (WHITE SKIPS - 3' LINE, 9' GAPS)

MARKING EPOXY 4-INCH (WHITE)

MARKING EPOXY 4-INCH (WHITE SKIPS - 3' LINE, 9' GAPS)

MARKING EPOXY 4-INCH (YELLOW)

54A BOX-OUT CU NO

55A NO CU

56A

57A

58A

59A

A2

A4 BL

A2R

A1

WO

MARKING EPOXY 4-INCH (WHITE SKIPS - 3' LINE, 9' GAPS)

MARKING EPOXY 8-INCH (WHITE)

MARKING EPOXY 4-INCH (WHITE)

MARKING EPOXY 4-INCH (WHITE)

MARKING EPOXY 8-INCH (WHITE)

SL

20C

21C

SCHOOL
REMOVE
SPEED LIMIT 15
REMOVE
2-7

S1-1
36" X 36"
AHEAD
W16-9P
24" X 8"
FINES HIGHER
R2-6P
24" X 18"
2-8

REMOVE
AHEAD
REMOVE
2-9

SCHOOL
SPEED LIMIT 15
WHEN CHILDREN ARE PRESENT
S4-51
24" X 48"
2-10

S1-1
36" X 36"
W16-7L
24" X 12"
2-11

REMOVE
REMOVE
2-12

21C+88

END CONSTRUCTION
STA 21C+79.00

STH 47/55
CAMPUS DR
MOVE BY OTHERS **
STOP
REMOVE
2-15

STOP
R1-1
30" X 30"
2-14

END SCHOOL ZONE
S5-2
24"X30"
2-13

COLLEGE OF MENOMINEE NATION
REMAIN

W11-2
30" X 30"
W16-7L
24" X 12"
2-16

W2-6
30" X 30"
15 M.P.H.
W13-1
18" X 18"
2-17

FLOOD LIGHT

CULVERT

WOODS

CONCRETE

SPEED LIMIT 35
REMOVE
2-18

R3-8JJ
36" X 30"
ONLY
2-19

11' (TYP)

2' (TYP)

2' (TYP)

MARKING CROSSWALK EPOXY LADDER PATTERN 24-INCH WHITE (TYP)

NOTE: NEW OR MOVED STREET SIGNS BY "OTHERS" PREFERRED BY WDOT TO BE PLACED IN THE CAMPUS DR SE QUADRANT.

**CONTACT BRAD BOWMAN 715-799-5147 A MINIMUM OF 10 BUSINESS DAYS IN ADVANCE TO COORDINATE MOVING.

LEGEND - PAVEMENT MARKING

A1	ARROWS EPOXY TYPE 1 (WHITE)
A2	ARROWS EPOXY TYPE 2 (WHITE)
A2R	ARROWS EPOXY TYPE 2R (WHITE)
A3R	ARROWS EPOXY TYPE 3R (WHITE)
A4	ARROWS BIKE LANE EPOXY (WHITE)
BL	SYMBOLS BIKE LANE EPOXY (WHITE)
CU	CURB EPOXY (YELLOW)
CW	CROSSWALK EPOXY 6-INCH (WHITE)
NO	ISLAND NOSE EPOXY (YELLOW)
SL	STOP LINE EPOXY 18-INCH (WHITE)
WO	WORDS EPOXY (WHITE)

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	PERMANENT SIGNING AND PAVEMENT MARKING - STH 47	SHEET 71	E

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PLOT DATE: 12/28/2017
PLOT TIME: 12:47:24 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

SOUTH SOUTH 47 55
D1-2 72" X 30" 3-2

R1-2 36" X 31"
TO TRAFFIC FROM LEFT
R15-4 24" X 15" 3-3

R1-2 36" X 31"
ONE WAY
R6-2R 24" X 30" 3-4

W11-2 30" X 30"
W16-7L 24" X 12" 3-5 3-6

STANDING PINES DRIVE

Standing Pines Dr
D1-1 84" X 15" 3-8

SIGN FLAGS TYPE II
FOR TEMPORARY USE
DURING CONSTRUCTION (TYP)

N

**CONTACT BRAD BOWMAN 715-799-5147
A MINIMUM OF 10 BUSINESS DAYS IN
ADVANCE TO COORDINATE MOVING.

R1-2 36" X 31" 3-9

R1-2 36" X 31"
TO TRAFFIC FROM LEFT
R15-4 24" X 15" 3-10

R1-2 36" X 31"
ONE WAY
R6-2R 24" X 30" 3-11

RV • BUS
OVERFLOW
PARKING
** MOVED BY OTHERS

MARKING EPOXY 18-INCH WHITE
2'LINE, 2'GAPS

MARKING EPOXY
4-INCH YELLOW

MARKING EPOXY 4-INCH
(YELLOW SKIPS - 12.5'LINE, 37.5'GAPS)

COMING SOON
STANDING PINES SQUARE
MOVED BY OTHERS **

W11-2 30" X 30"
W16-7L 24" X 12" 3-1 3-14

MARKING EPOXY 4-INCH
(WHITE SKIPS - 3'LINE, 9'GAPS)

MARKING EPOXY
8-INCH WHITE

WO

BOX-OUT

W12-1D 24" X 24" 3-12

MARKING EPOXY
8-INCH WHITE

MARKING EPOXY
8-INCH WHITE
3'LINE, 9'GAPS

R3-8DD 36" X 30" 3-13

MARKING EPOXY
4-INCH (YELLOW)

MATCHLINE STA. 59A+50

STH 47

60A

A2R

A1

A2

A3R

A4

BL

CU

NO

65A

64A

63A

61A

62A

14B

10B

14+53

MARKING EPOXY
4-INCH (YELLOW)

MARKING EPOXY
8-INCH WHITE

MARKING EPOXY 4-INCH
(WHITE SKIPS - 3'LINE, 9'GAPS)

MARKING EPOXY
4-INCH (WHITE)

R4-7 24" X 30" 3-27

MATCHLINE STA. 65A+50

W11-2 30" X 30"
W16-7L 24" X 12" 3-22 3-23 3-24

Keshena UNINCORPORATED
I2-3 54" X 24" 3-25

Keshena UNINCORPORATED
REMOVE 3-26

STOP
REMOVE 3-7

MARKING EPOXY 18-INCH WHITE
2'LINE, 2'GAPS

R1-2 36" X 31"
ONE WAY
R6-2R 24" X 30" 3-15

GATES PIPE
DUAL LEAF 18-FT

MARKING EPOXY
8-INCH WHITE

MARKING
EPOXY 8-INCH WHITE
1'LINE, 3'GAPS

R1-2 36" X 31"
TO TRAFFIC FROM LEFT
R15-4 24" X 15" 3-16

ROAD CLOSED
R11-2 48" X 30" 3-17

5" CONC SIDEW

6" CULVERT

WOODS

ONE WAY
R6-1R 36" X 12"
R6-4B 60" X 24"
3-18 3-19 3-20

MENOMINEE NATION
IS PROUD TO RECYCLE
Join County efforts
as our community
takes steps towards
enviromental
change
** MOVED BY OTHERS

NORTH NORTH 47 55
D1-2 72" X 30" 3-21

11' (TYP)

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

LEGEND - PAVEMENT MARKING

A1	ARROWS EPOXY TYPE 1(WHITE)
A2	ARROWS EPOXY TYPE 2 (WHITE)
A2R	ARROWS EPOXY TYPE 2R (WHITE)
A3R	ARROWS EPOXY TYPE 3R (WHITE)
A4	ARROWS BIKE LANE EPOXY (WHITE)
BL	SYMBOLS BIKE LANE EPOXY (WHITE)
CU	CURB EPOXY (YELLOW)
CW	CROSSWALK EPOXY 6-INCH (WHITE)
NO	ISLAND NOSE EPOXY (YELLOW)
SL	STOP LINE EPOXY 18-INCH (WHITE)
WO	WORDS EPOXY (WHITE)

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	PERMANENT SIGNING AND PAVEMENT MARKING - STH 47	SHEET 72	E

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WISDOT/CADDS SHEET 42

2

2

N

MATCHLINE STA. 65A+50

MATCHLINE STA. 71A+50

4-1 REMOVE

END
R3-9D
24" X 6"
4-2
CENTER LANE ONLY
R3-9B
24" X 36"

4-3
W2-6
30" X 30"
15 M.P.H.
W13-1
18" X 18"

4-4
SPEED LIMIT 35
REMOVE

MARKING EPOXY 4-INCH
(WHITE SKIPS - 3' LINE, 9' GAPS)

MARKING EPOXY
4-INCH (YELLOW)

MARKING EPOXY 4-INCH
(YELLOW SKIPS - 12.5' LINE, 37.5' GAPS)

MARKING EPOXY
4-INCH (WHITE)

66A 67A 68A 69A 70A 71A

A2 A2

STH 47

WOODS

ASPHALT

GRAVEL

BEGIN
R3-9C
24" X 6"
CENTER LANE ONLY
R3-9B
24" X 36"
4-5

NORTH NORTH
47 55
J4-2
48" X 36"
4-6

SPEED LIMIT 35
R2-1
24" X 30"
4-7

SPEED LIMIT 35
REMOVE
4-8

LEGEND - PAVEMENT MARKING

A1	ARROWS EPOXY TYPE 1 (WHITE)
A2	ARROWS EPOXY TYPE 2 (WHITE)
A2R	ARROWS EPOXY TYPE 2R (WHITE)
A3R	ARROWS EPOXY TYPE 3R (WHITE)
A4	ARROWS BIKE LANE EPOXY (WHITE)
BL	SYMBOLS BIKE LANE EPOXY (WHITE)
CU	CURB EPOXY (YELLOW)
CW	CROSSWALK EPOXY 6-INCH (WHITE)
NO	ISLAND NOSE EPOXY (YELLOW)
SL	STOP LINE EPOXY 18-INCH (WHITE)
WO	WORDS EPOXY (WHITE)

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	PERMANENT SIGNING AND PAVEMENT MARKING - STH 47	SHEET 73	E

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WISDOT/CADDS SHEET 42

2

N

MATCHLINE STA. 71A+50

MATCHLINE STA. 77A+50

5-1 STOP REMOVE

5-2 HISTORICAL MARKER 1/2 MILE REMOVE

5-3 NO PARKING BUS STOP R7-7R 18" X 24"

5-4 HISTORICAL MARKER 1/2 MILE D5-63 60" X 36"

5-5 NO PARKING BUS STOP R7-7L 18" X 24"

DUQUAINE RD ** MOVE BY OTHERS STOP REMOVE 5-6

STOP R1-1 30" X 30"

DUQUAINE RD

92E

93E

94E

95E

GO AROUND RD

STH 47

LIFT STATION

FLAG POLE W/LIGHT

FLAG POLE

FLAG POLE

MARKING EPOXY 4-INCH (YELLOW SKIPS - 12.5' LINE, 37.5' GAPS)

MARKING EPOXY 4-INCH (YELLOW)

MARKING EPOXY 4-INCH (WHITE)

MARKING EPOXY 4-INCH (WHITE SKIPS - 3' LINE, 9' GAPS)

MARKING EPOXY 4-INCH (WHITE)

MARKING EPOXY 4-INCH (WHITE SKIPS - 3' LINE, 9' GAPS)

MARKING EPOXY 4-INCH (WHITE SKIPS - 3' LINE, 9' GAPS)

MARKING EPOXY 4-INCH (YELLOW)

MARKING EPOXY 4-INCH (YELLOW SKIPS - 12.5' LINE, 37.5' GAPS)

MARKING EPOXY 4-INCH (WHITE SKIPS - 3' LINE, 9' GAPS)

MARKING EPOXY 8-INCH (WHITE SKIPS - 3' LINE, 9' GAPS)

MARKING EPOXY 8-INCH (WHITE)

A2 A2 A2 A2 A4 BL BL A4

72A 73A 74A 75A 76A 77A

NO NO

SL SL

CW CW

24" CULVERT 24" CULVERT

ASPHALT CONCRETE CONCRETE

BEGIN RIGHT TURN LANE YIELD TO BIKES R4-4 36" X 30" 5-7

REMOVE 5-8

SPEED LIMIT 25 REMOVE

DO NOT PASS REMOVE

AXLE WEIGHT LIMIT ONE AXLE 6 TONS TWIN AXLE 10 TONS MOVE 5-9

SPEED LIMIT 25 R2-1 24" X 30" 5-10

GO AROUND RD MOVE BY OTHERS ** STOP REMOVE 5-11

STOP R1-1 30" X 30" 5-12

REMOVE 5-13

W11-2 30" X 30" 5-14

NOTE: NEW OR MOVED STREET SIGNS BY "OTHERS" PREFERRED BY WDOT TO BE PLACED IN THE GO AROUND RD SE AND NW QUADRANTS.

** CONTACT BRAD BOWMAN 715-799-5147 A MINIMUM OF 10 BUSINESS DAYS IN ADVANCE TO COORDINATE MOVING.

LEGEND - PAVEMENT MARKING

A1	ARROWS EPOXY TYPE 1 (WHITE)
A2	ARROWS EPOXY TYPE 2 (WHITE)
A2R	ARROWS EPOXY TYPE 2R (WHITE)
A3R	ARROWS EPOXY TYPE 3R (WHITE)
A4	ARROWS BIKE LANE EPOXY (WHITE)
BL	SYMBOLS BIKE LANE EPOXY (WHITE)
CU	CURB EPOXY (YELLOW)
CW	CROSSWALK EPOXY 6-INCH (WHITE)
NO	ISLAND NOSE EPOXY (YELLOW)
SL	STOP LINE EPOXY 18-INCH (WHITE)
WO	WORDS EPOXY (WHITE)

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	PERMANENT SIGNING AND PAVEMENT MARKING - STH 47	SHEET 74	E

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WISDOT/CADDS SHEET 42

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**CONTACT BRAD BOWMAN 715-799-5147 A MINIMUM OF 10 BUSINESS DAYS IN ADVANCE TO COORDINATE MOVING.

NOTE: NEW OR MOVED STREET SIGNS BY "OTHERS" PREFERRED BY WDOT TO BE PLACED IN THE DODGE RD NW QUADRANT.

N

MATCHLINE STA. 77A+50

MARKING EPOXY 4-INCH (WHITE SKIPS - 3' LINE, 9' GAPS)

6-1 SPEED LIMIT 35 R2-1 24" X 30"

6-2 SPEED LIMIT 35 REMOVE

6-5A BEGIN R3-9C 24" X 6" CENTER LANE ONLY R3-9B 24" X 36"

MARKING EPOXY 4-INCH (DOUBLE YELLOW)

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

MARKING EPOXY 4-INCH (WHITE)

MARKING EPOXY 4-INCH (YELLOW)

MARKING EPOXY 4-INCH (YELLOW SKIPS - 12.5' LINE, 37.5' GAPS)

STH 47

78A 79A 80A 81A 82A 83A

BL A4

6-3 W11-2 30" X 30" W16-7L 24" X 12"

DODGE ROAD MOVE BY OTHERS **

STOP REMAIN

DEAD END REMAIN

WEIGHT LIMIT 5 TONS REMAIN

DODGE RD

MARKING EPOXY 4-INCH (DOUBLE YELLOW)

MATCHLINE STA. 83A+50

6-4 W6-2 36" X 36"

GRAVEL

6-5 END R3-9D 24" X 6" CENTER LANE ONLY R3-9B 24" X 36"

6-6 SPEED LIMIT 35 REMOVE

6-7 SPEED LIMIT 35 R2-1 24" X 30"

6-8 R3-17 30" X 24" BIKE LANE ENDS R3-17B 30" X 12"

6-9 REMOVE

6-10 W11-2 30" X 30" W16-7L 24" X 12"

5' CONC

END PROJECT 9650-17-71
STA 83A+00.00

MATCHLINE STA. 83A+50

6-11 R3-17 30" X 24" BIKE LANE AHEAD R3-17A 30" X 12"

6-12 REMOVE

6-13 W6-1 36" X 36"

WOODS

MARKING EPOXY 4-INCH (DOUBLE YELLOW)

84A 85A 86A 87A 87A+89

STH 47

SIDEWALK

6-14 W6-3 36" X 36"

6-15 W11-1 30" X 30" SHARE THE ROAD W16-1P 24" X 30"

N

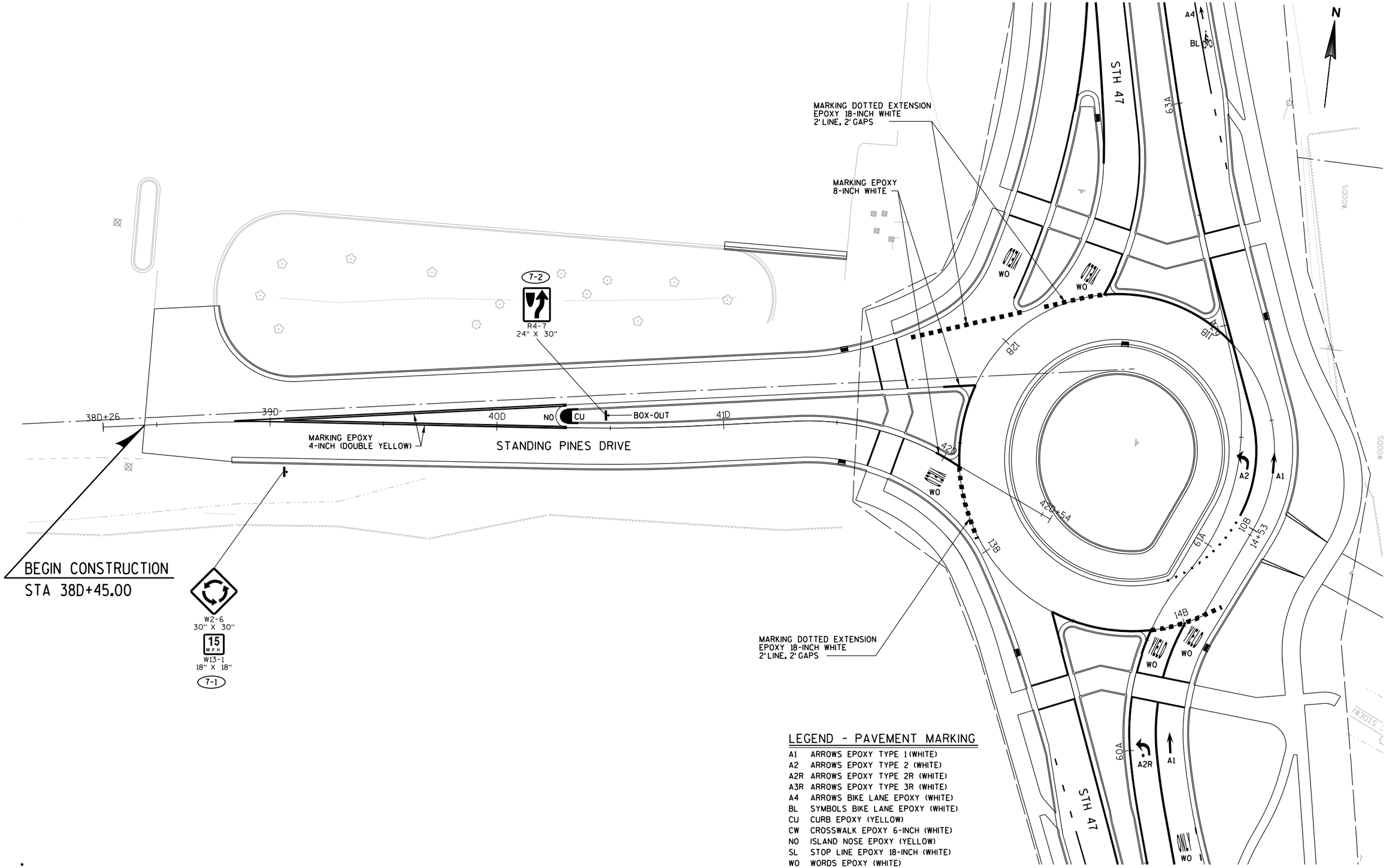
LEGEND - PAVEMENT MARKING

A1	ARROWS EPOXY TYPE 1 (WHITE)
A2	ARROWS EPOXY TYPE 2 (WHITE)
A2R	ARROWS EPOXY TYPE 2R (WHITE)
A3R	ARROWS EPOXY TYPE 3R (WHITE)
A4	ARROWS BIKE LANE EPOXY (WHITE)
BL	SYMBOLS BIKE LANE EPOXY (WHITE)
CU	CURB EPOXY (YELLOW)
CW	CROSSWALK EPOXY 6-INCH (WHITE)
NO	ISLAND NOSE EPOXY (YELLOW)
SL	STOP LINE EPOXY 18-INCH (WHITE)
WO	WORDS EPOXY (WHITE)

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	PERMANENT SIGNING AND PAVEMENT MARKING - STH 47	SHEET 75	E

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WISDOT/CADDS SHEET 42

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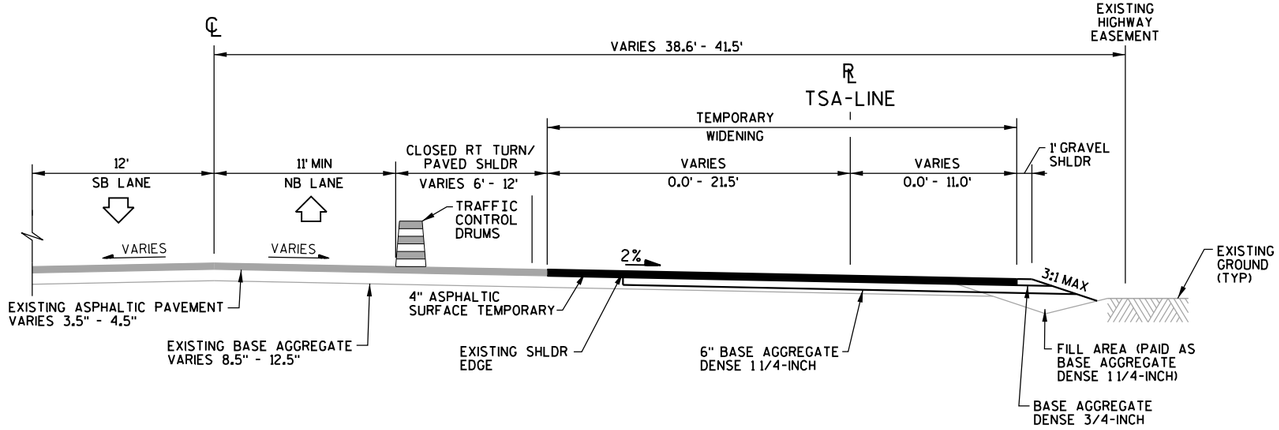


LEGEND - PAVEMENT MARKING

A1	ARROWS EPOXY TYPE 1 (WHITE)
A2	ARROWS EPOXY TYPE 2 (WHITE)
A2R	ARROWS EPOXY TYPE 2R (WHITE)
A3R	ARROWS EPOXY TYPE 3R (WHITE)
A4	ARROWS BIKE LANE EPOXY (WHITE)
BL	SYMBOLS BIKE LANE EPOXY (WHITE)
CU	CURB EPOXY (YELLOW)
CW	CROSSWALK EPOXY 6-INCH (WHITE)
NO	ISLAND NOSE EPOXY (YELLOW)
SL	STOP LINE EPOXY 18-INCH (WHITE)
WO	WORDS EPOXY (WHITE)

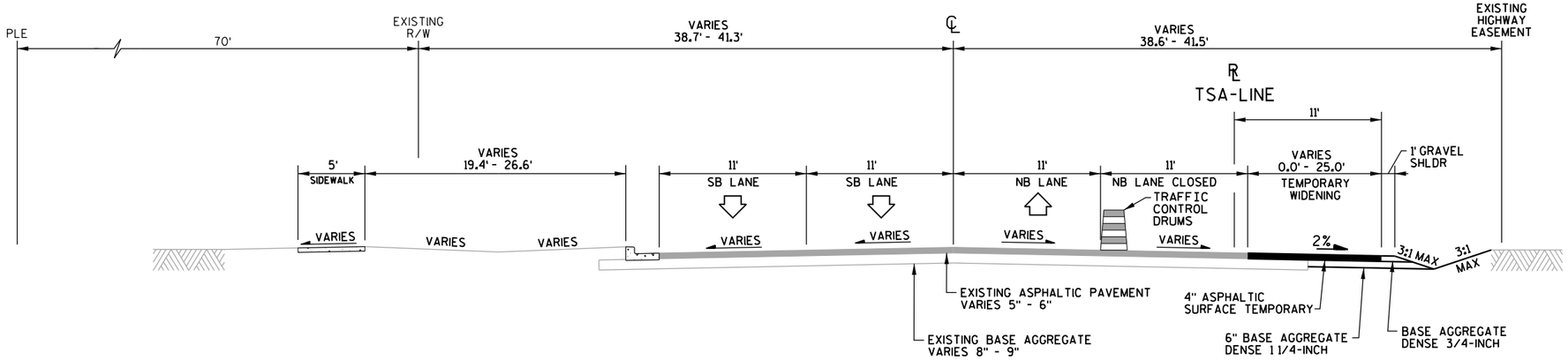
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WISDOT/CADDS SHEET 42



TYPICAL PROPOSED STAGE 1A TRAFFIC CONTROL SECTION - STH 47

STA 0TSA+00 - STA 13TSA+15
STA 35TSA+81 - STA 37TSA+55



TYPICAL PROPOSED STAGE 1A TRAFFIC CONTROL SECTION - STH 47

STA 13TSA+15 - STA 35TSA+81

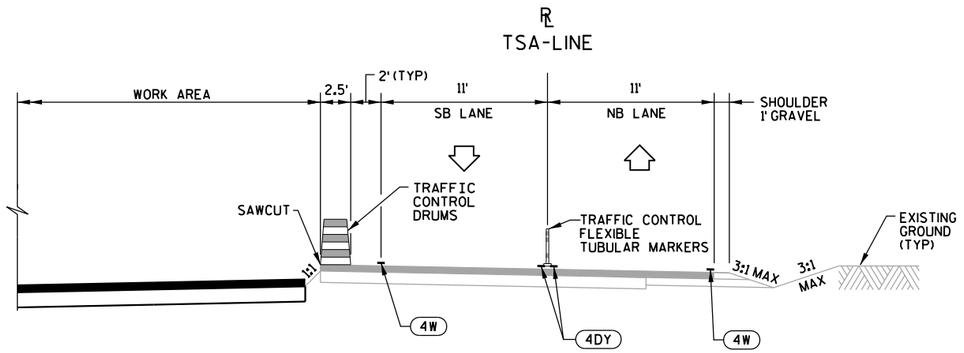
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LEGEND: TEMPORARY PAVEMENT MARKING

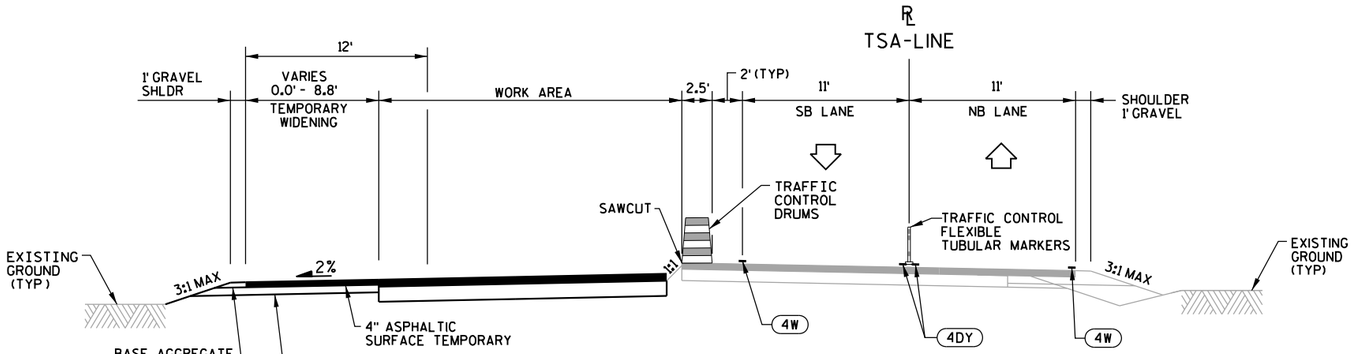
(4W) 4-INCH (WHITE)

(4DY) 4-INCH (DOUBLE YELLOW)



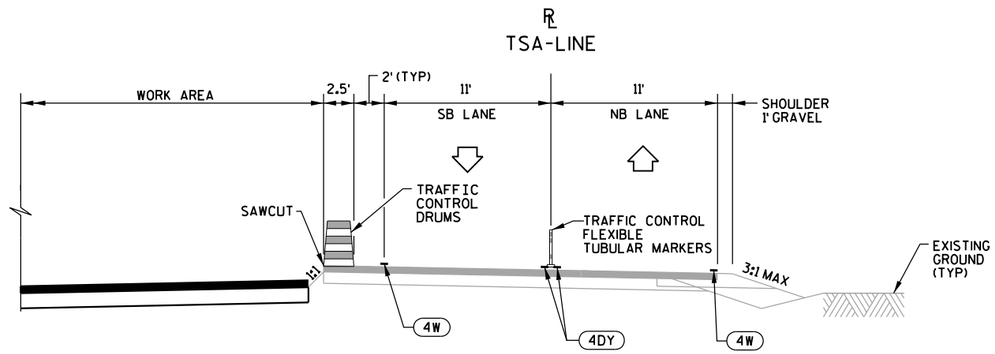
TYPICAL PROPOSED STAGE 1B TRAFFIC CONTROL SECTION - STH 47

RECONSTRUCT ENTRANCE TO CASINO
STA 24A+48 - STA 26A+98



TYPICAL PROPOSED STAGE 1C TRAFFIC CONTROL SECTION - STH 47

TEMPORARY PAVEMENT SECTION - NORTH LIMITS
STA 79A+01 - STA 85A+42



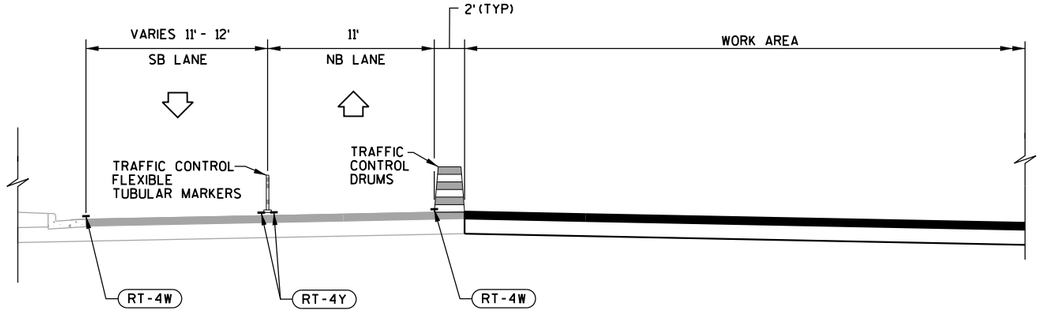
TYPICAL PROPOSED STAGE 1C TRAFFIC CONTROL SECTION - STH 47

RECONSTRUCT SOUTHBOUND LANES
STA 48A+67 - STA 83A+00

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL/CONSTRUCTION STAGING IB - TYPICAL SECTIONS	SHEET 78	E

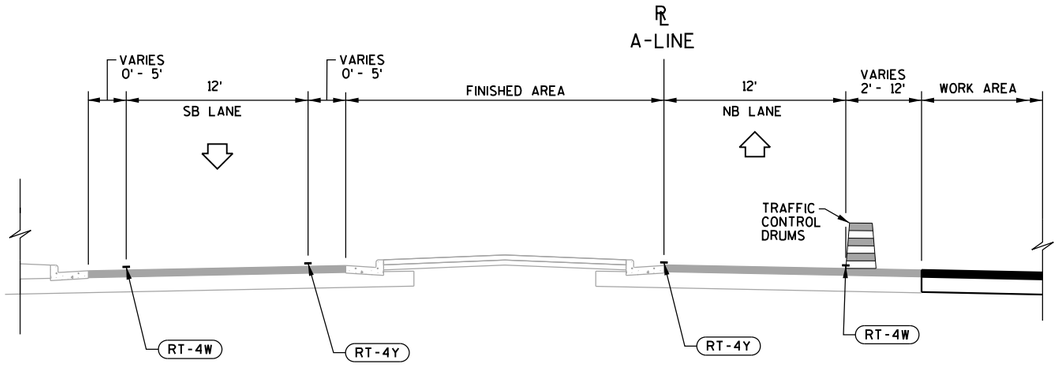
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PLOT SCALE: 1:10
WISDOT/CADDS SHEET 42

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TYPICAL PROPOSED STAGE 2A TRAFFIC CONTROL SECTION - STH 47

STA 48A+25 - STA 52A+70
STA 66A+57 - STA 83A+00



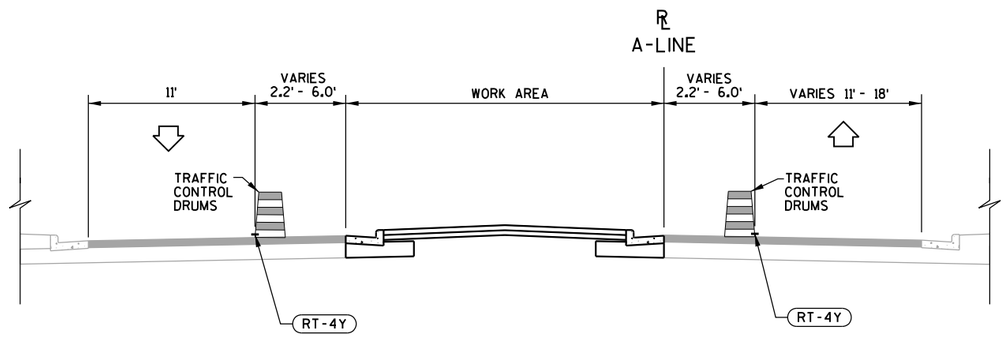
TYPICAL PROPOSED STAGE 2A TRAFFIC CONTROL SECTION - STH 47

STA 52A+70 - STA 59A+72
STA 64A+89 - STA 66A+57

LEGEND: TEMPORARY PAVEMENT MARKING

(RT-4W) REMOVABLE TAPE 4-INCH (WHITE)

(RT-4Y) REMOVABLE TAPE 4-INCH (YELLOW)



TYPICAL PROPOSED STAGE 2B TRAFFIC CONTROL SECTION - STH 47

STA 53A+30.0 - STA 57A+46.4

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL/CONST. STAGING 2A & 2B - TYPICAL SECTIONS	SHEET 79	E

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WISDOT/CADDS SHEET 42

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.

N

STH 47 CONSTRUCTION BEGINS XXX-XX
G20-57
96" X 48"

END ROAD WORK
G20-2A
48" X 24"

ROAD WORK AHEAD
W20-1

ROAD NARROWS
W5-1
36" X 36"

25 M.P.H.
W013-1
24" X 24"

STH 47

400'

200'

150' BUFFER

62.5' SHIFTING TAPER

CAMPUS DR

COLLEGE OF MENOMINEE NATION

STANDING PINES DR

MENOMINEE CASINO

DUQUAINE RD

GO AROUND RD

DODGE RD

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE WITH/WITH OUT ATTACHED SIGN
- WORK ZONE

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL/CONSTRUCTION STAGE IA - ADVANCE SIGNING	SHEET 80	E

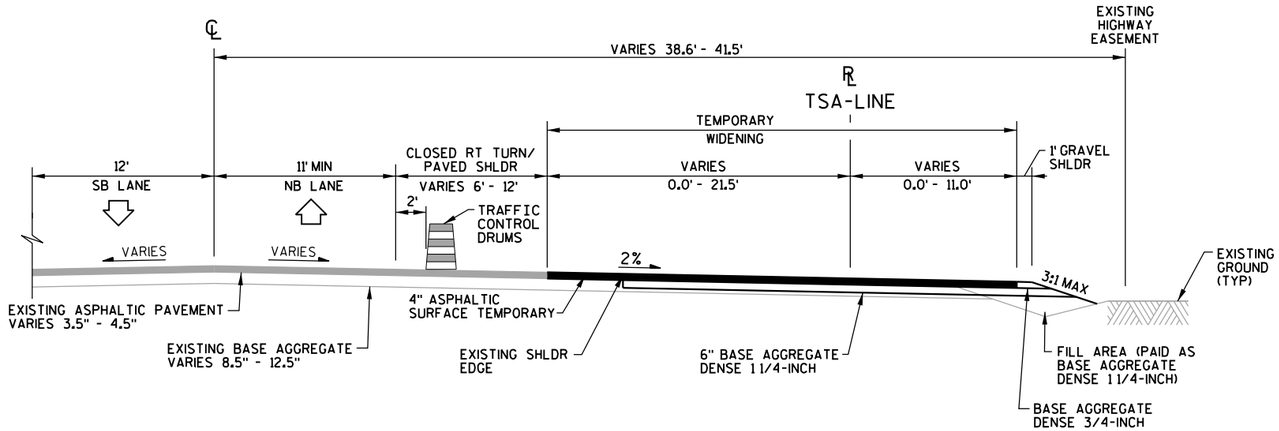
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PLOT SCALE: 1:400
WISDOT/CADDS SHEET 42

STAGE 1A TRAFFIC

CLOSE THE OUTSIDE LANE OF STH 47 NB
MAINTAIN TRAFFIC ON A MINIMUM 11-FOOT WIDE LANE IN EACH DIRECTION
STH 47 NB TRAFFIC WILL BE ON EXISTING NB LANES BUT WILL BE REDUCED TO ONE LANE THROUGH THE WORK ZONE.
STH 47 SB TRAFFIC WILL BE ON EXISTING SB LANES
MAINTAIN ACCESS TO CAMPUS DRIVE, STANDING PINES DRIVE, AND DUQUAINE ROAD/ GO AROUND ROAD
MAINTAIN ACCESS TO CASINO THROUGH STANDING PINES DRIVE AND DUQUAINE ROAD
MENOMINE COLLEGE DRIVEWAY @ 61A+20 WILL BE CLOSED
PEDESTRIANS WILL UTILIZE EXISTING SIDEWALK ON EAST OF ROADWAY UNTIL TEMPORARY PEDESTRIAN ACCES IS BUILT
MAINTAIN PEDESTRIAN ACCESS AT STANDING PINES DRIVE, DUQUAINE ROAD, AND NORTH PROJECT LIMITS

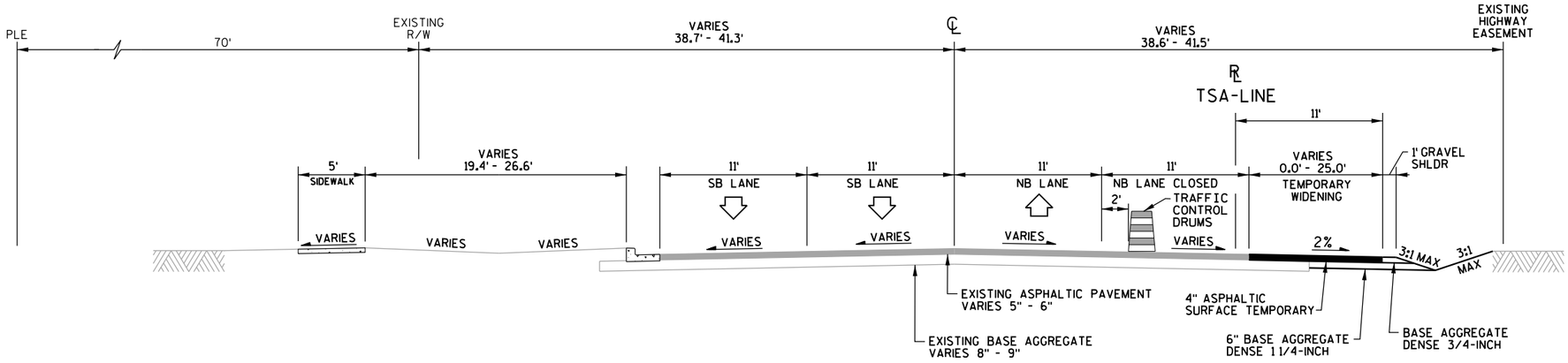
STAGE 1A CONSTRUCTION

CONSTRUCT STORM SEWER AT TEMPORARY SIDEWALK LOCATIONS
CONSTRUCT TEMPORARY SIDEWALK FROM 60A+10 TO 77A+95 PRIOR TO REMOVAL OF EXISTING SIDEWALK ALONG EAST SIDE OF STH 47
CONSTRUCT TEMPORARY PAVEMENT FROM SOUTH LIMITS TO NORTH LIMITS ALONG EAST SIDE OF STH 47



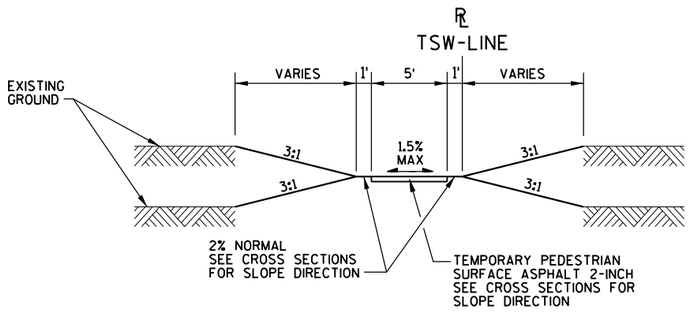
TYPICAL PROPOSED STAGE 1A TRAFFIC CONTROL SECTION - STH 47

STA 0TSA+00 - STA 13TSA+15
STA 35TSA+81 - STA 37TSA+55



TYPICAL PROPOSED STAGE 1A TRAFFIC CONTROL SECTION - STH 47

STA 13TSA+15 - STA 35TSA+81



TYPICAL TEMPORARY SIDEWALK

STA 0TSW+00 - STA 19TSW+77

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL/CONSTRUCTION STAGE IA - TYPICAL SECTIONS	SHEET 81	E

FILE NAME: L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\026101_S1A_ts.dgn
BATCH PRINT SHEET 2 OF 11
PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\MS_Printing\Pen_Tables\ET_WisDOT_fade159.tbl
PLOT DATE: 10/17/2017
PLOT TIME: 7:09:29 AM
PLOT SCALE: 1:10
WISDOT/CADDS SHEET 42

TEMPORARY SIDEWALK

POB 0TSW+00.00
Y=52,082.49
X=291,343.75

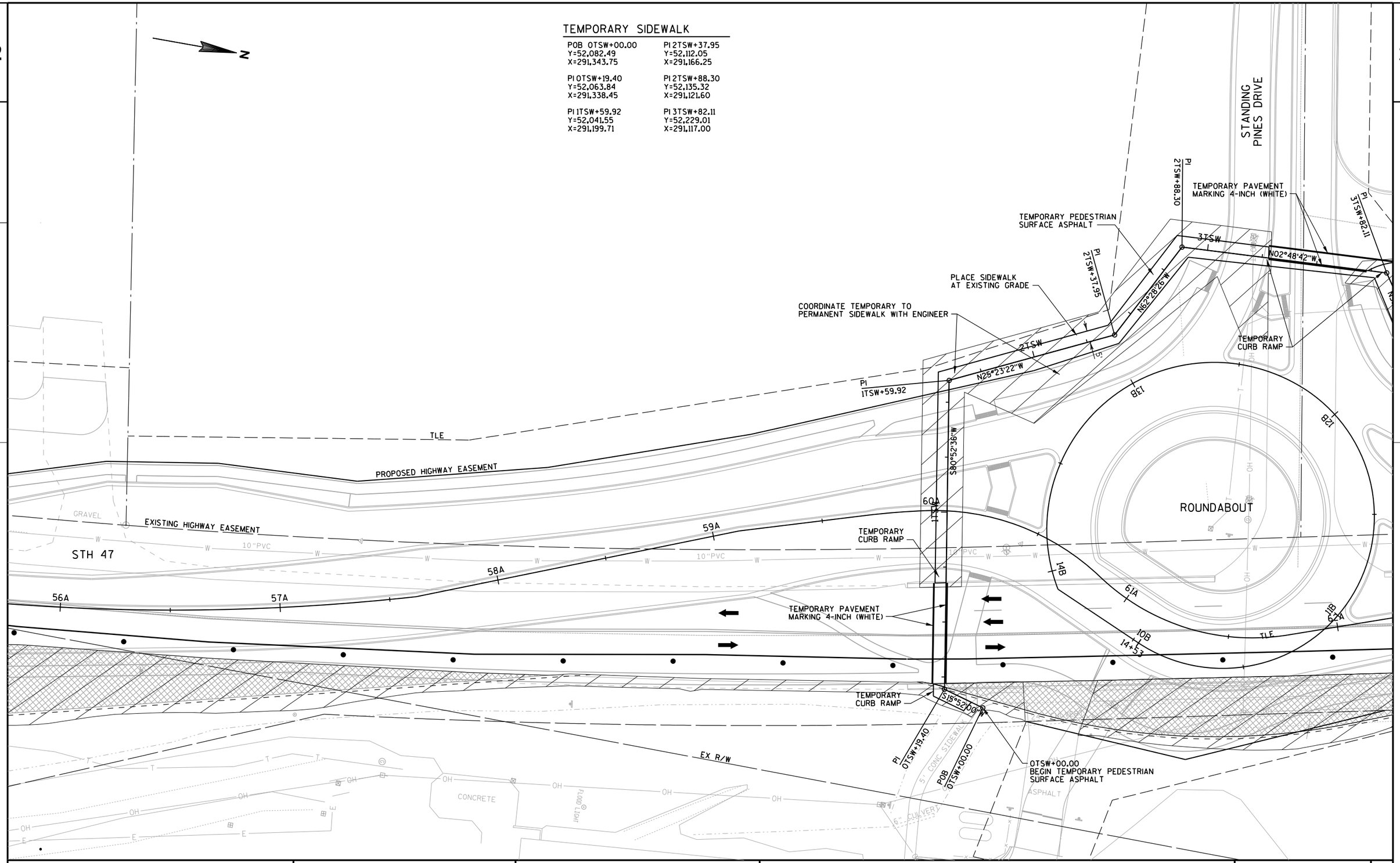
PI 0TSW+19.40
Y=52,063.84
X=291,338.45

PI 1TSW+59.92
Y=52,041.55
X=291,199.71

PI 2TSW+37.95
Y=52,112.05
X=291,166.25

PI 2TSW+88.30
Y=52,135.32
X=291,121.60

PI 3TSW+82.11
Y=52,229.01
X=291,117.00

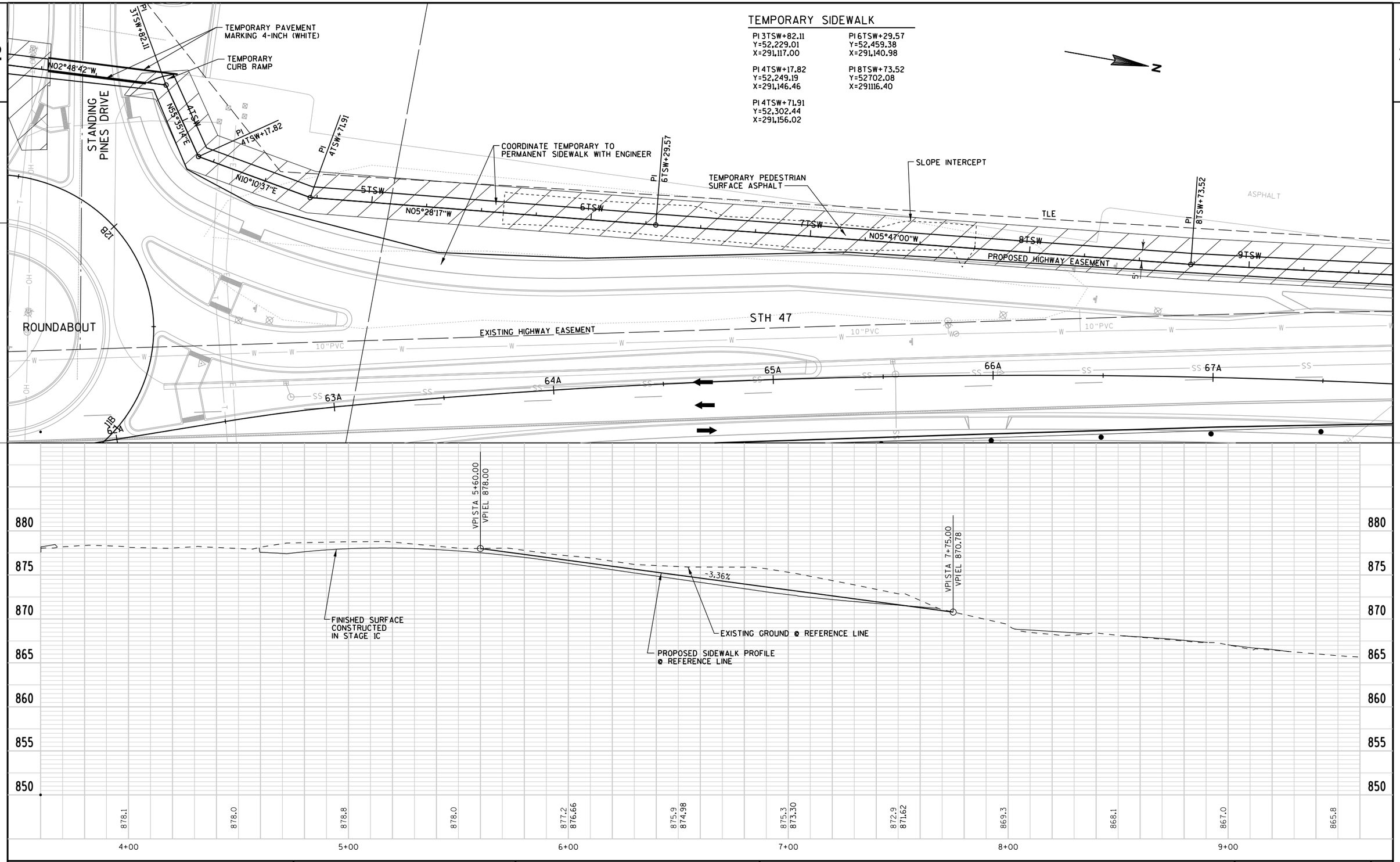


PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TEMPORARY SIDEWALK- STAGE IA & STAGE IB	SHEET 82	E

FILE NAME: L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\026102_s1A_pp.dgn
BATCH PRINT SHEET 3 OF 11
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PLOT DATE: 10/17/2017
PLOT TIME: 7:09:32 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

TEMPORARY SIDEWALK

PI 3TSW+82.11 Y=52,229.01 X=291,117.00	PI 6TSW+29.57 Y=52,459.38 X=291,140.98
PI 4TSW+17.82 Y=52,249.19 X=291,146.46	PI 8TSW+73.52 Y=52702.08 X=291116.40
PI 4TSW+71.91 Y=52,302.44 X=291,156.02	



PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TEMPORARY SIDEWALK- STAGE IA & STAGE IB	SHEET 83	E

FILE NAME: L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\026103_s1A_pp.dgn
BATCH PRINT SHEET 4 OF 11
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PLOT DATE: 10/17/2017
PLOT TIME: 7:09:34 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 40

TEMPORARY SIDEWALK

PI 12TSW+11.46	PI 14TSW+78.22
Y=53,037.49	Y=53,302.77
X=291,075.10	X=291,047.04

COORDINATE TEMPORARY TO PERMANENT SIDEWALK WITH ENGINEER

SLOPE INTERCEPT

TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)

TEMPORARY PEDESTRIAN SURFACE ASPHALT

TEMPORARY CURB RAMP

TLE

PROPOSED HIGHWAY EASEMENT

EXISTING HIGHWAY EASEMENT

10TSW

11TSW

12TSW

13TSW

14TSW

15TSW

PI 12TSW+11.46

PI 14TSW+78.22

N07°01'14"W

N06°02'12"W

N07°02'43"W

STH 47

68A

69A

70A

71A

72A

73A

15" CULVERT

5" CONC. SIDEWALK

18" CULVERT

ASPHALT

GRAVEL

VPI STA 11+00.00
VPI EL 863.12

VPI STA 14+00.00
VPI EL 858.31

PROPOSED SIDEWALK PROFILE @ REFERENCE LINE

EXISTING GROUND @ REFERENCE LINE

-1.60%

FINISHED SURFACE CONSTRUCTED IN STAGE 1C

880 875 870 865 860 855 850

865.8 | 864.4 | 863.1 / 863.12 | 861.3 / 862.31 | 860.2 / 861.51 | 859.1 / 860.71 | 858.1 / 859.91 | 856.9 / 859.11 | 858.3 / 858.31 | 857.9 | 856.7 | 855.1

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

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TEMPORARY SIDEWALK- STAGE IA & STAGE IB	SHEET 84	E

FILE NAME: L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\026104_s1A_pp.dgn
BATCH PRINT SHEET 5 OF 11
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PLOT DATE: 10/17/2017
PLOT TIME: 7:09:37 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 40

TEMPORARY SIDEWALK

PI 15TSW+85.17
Y=53408.92
X=291033.93

PI 16TSW+83.70
Y=53505.62
X=291015.08

PI 18TSW+67.46
Y=53688.50
X=290997.09

PI 19TSW+77.38
Y=53798.03
X=290987.86

PI 20TSW+00.00
Y=54019.23
X=290962.72

N

PLACE SIDEWALK AT EXISTING GRADE

COORDINATE TEMPORARY TO PERMANENT SIDEWALK WITH ENGINEER

TEMPORARY CURB RAMP

TEMPORARY PEDESTRIAN SURFACE ASPHALT

TEMPORARY CURB RAMP

TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)

TEMPORARY CURB RAMP

19TSW+77.38
END TEMPORARY PEDESTRIAN SURFACE ASPHALT

PI 15TSW+85.17
PI 16TSW+83.70
PI 18TSW+67.46
PI 19TSW+77.38

15TSW
16TSW
17TSW
18TSW
19TSW
20TSW
21TSW

N07°02'43"W
N11°01'42"W
N05°37'01"W
N04°49'12"W
N06°29'03"W

74A
75A
76A
77A
78A
79A

STH 47

TLE
EXISTING HIGHWAY EASEMENT
PROPOSED HIGHWAY EASEMENT
TLE
EXISTING HIGHWAY EASEMENT

GRAVEL
GRAVEL
E CONNSTOR LINK

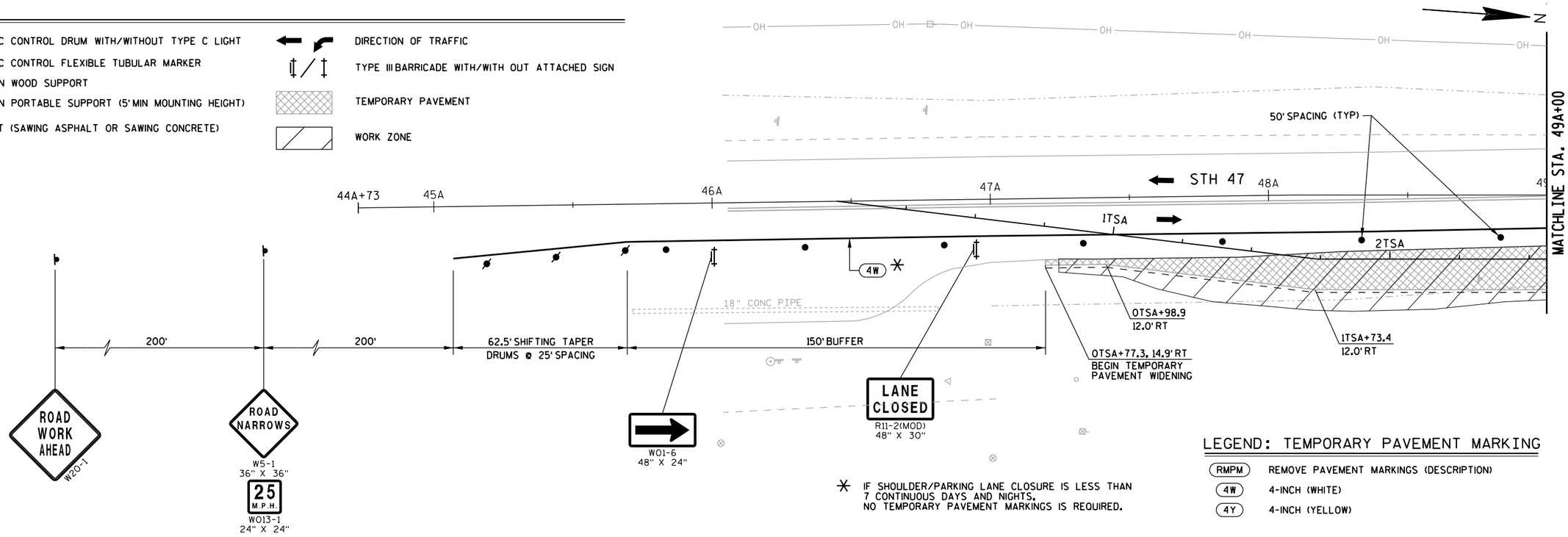
24" CULVERT
24" CULVERT
24" CULVERT
24" CULVERT
18" CULVERT

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TEMPORARY SIDEWALK- STAGE IA & STAGE IB	SHEET 85	E

FILE NAME: L:\Work\Projects\60158808\000.CAD\001_Drawings\Sheets\026105_s1A_pp.dgn
BATCH PRINT SHEET 6 OF 11
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PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

LEGEND

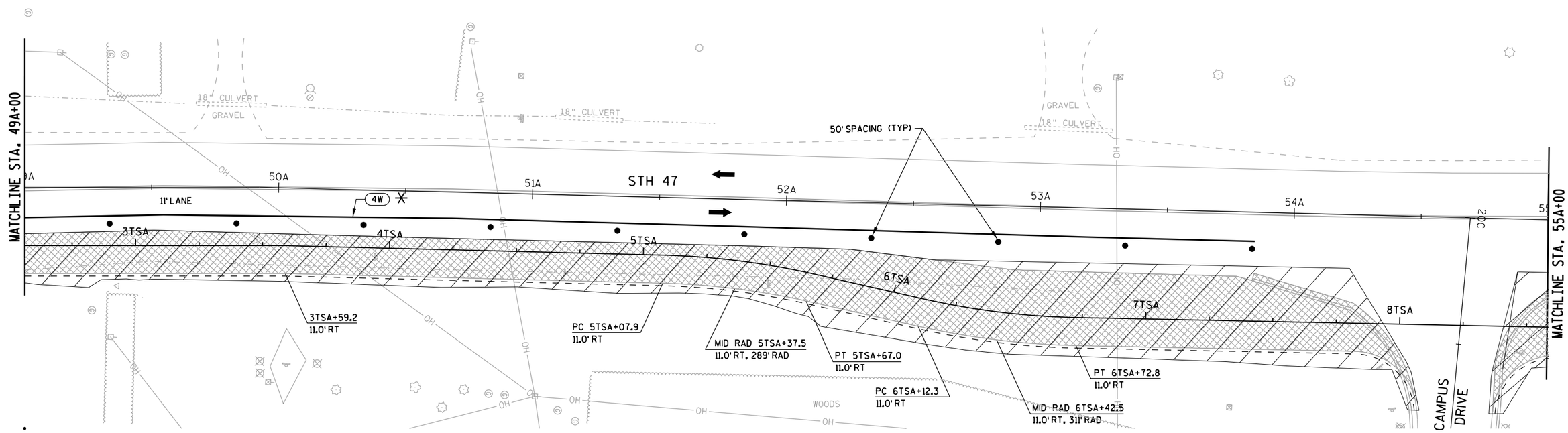
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER
- SIGN ON WOOD SUPPORT
- SIGN ON PORTABLE SUPPORT (5' MIN MOUNTING HEIGHT)
- XXXXX SAWCUT (SAWING ASPHALT OR SAWING CONCRETE)
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WITH/WITH OUT ATTACHED SIGN
- TEMPORARY PAVEMENT
- WORK ZONE



✳ IF SHOULDER/PARKING LANE CLOSURE IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, NO TEMPORARY PAVEMENT MARKINGS IS REQUIRED.

LEGEND: TEMPORARY PAVEMENT MARKING

- (RMPM) REMOVE PAVEMENT MARKINGS (DESCRIPTION)
- (4W) 4-INCH (WHITE)
- (4Y) 4-INCH (YELLOW)

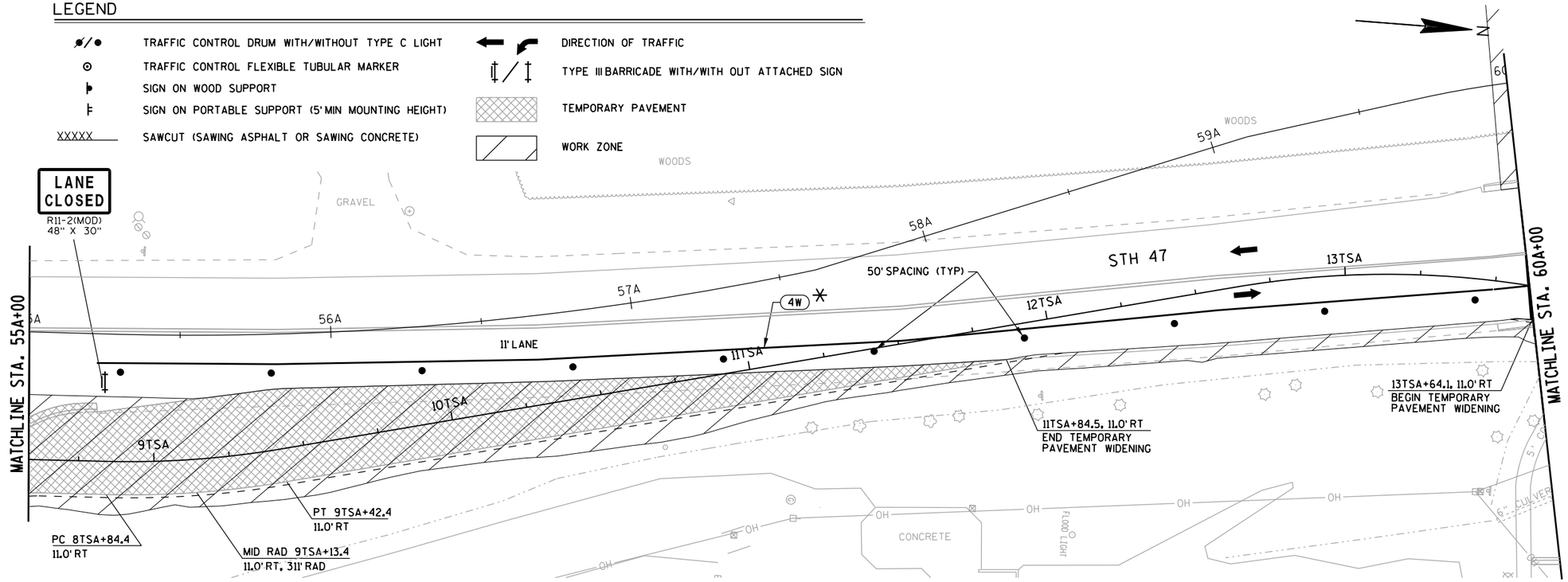


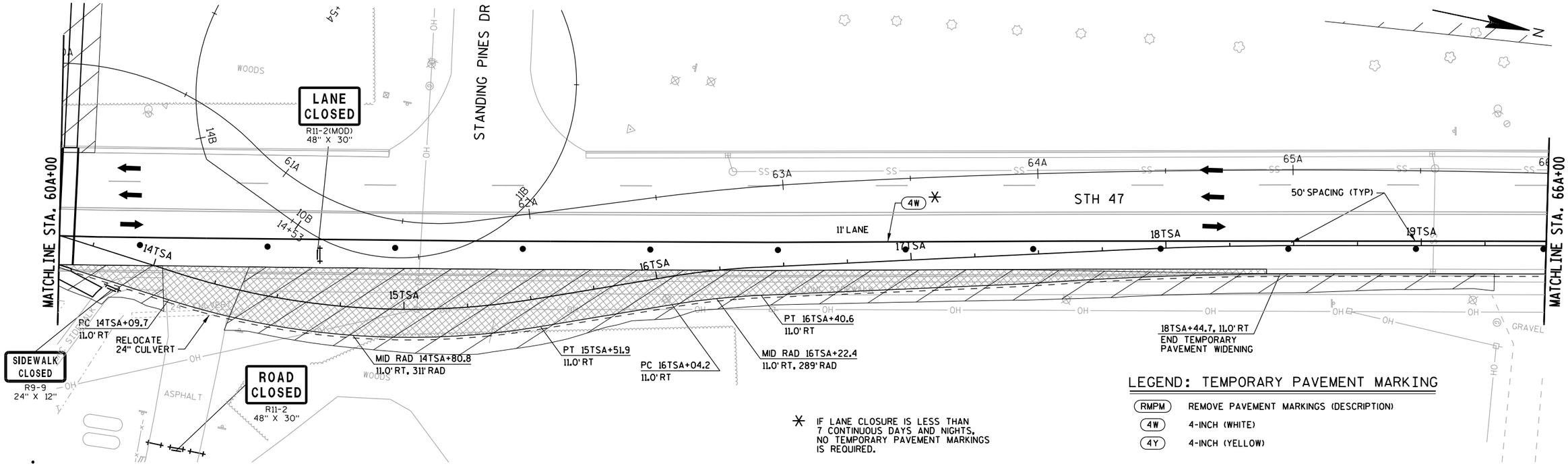
PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL/CONSTRUCTION STAGE IA - STH 47	SHEET 86	E

FILE NAME: L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\026106_s1A.dgn
BATCH PRINT SHEET 7 OF 11
PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 10/17/2017
PLOT TIME: 7:09:43 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

LEGEND

- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER
- SIGN ON WOOD SUPPORT
- SIGN ON PORTABLE SUPPORT (5' MIN MOUNTING HEIGHT)
- XXXXX SAWCUT (SAWING ASPHALT OR SAWING CONCRETE)
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WITH/WITH OUT ATTACHED SIGN
- TEMPORARY PAVEMENT
- WORK ZONE





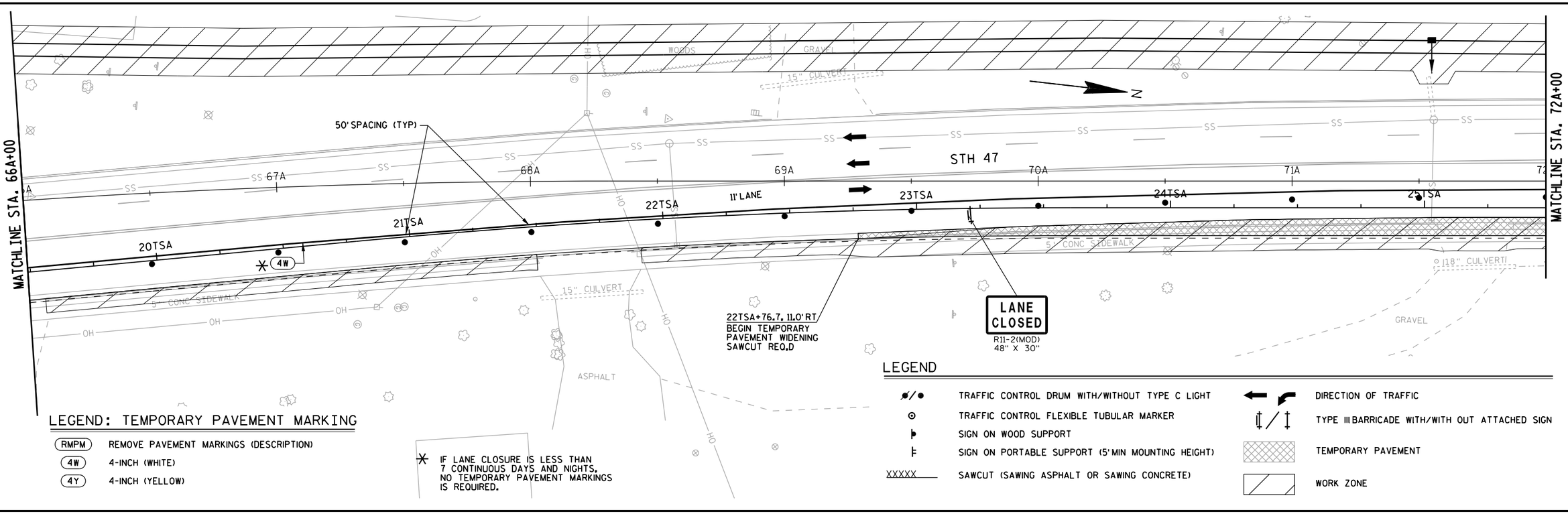
IF LANE CLOSURE IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, NO TEMPORARY PAVEMENT MARKINGS IS REQUIRED.

LEGEND: TEMPORARY PAVEMENT MARKING

- (RMPM) REMOVE PAVEMENT MARKINGS (DESCRIPTION)
- (4W) 4-INCH (WHITE)
- (4Y) 4-INCH (YELLOW)

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL/CONSTRUCTION STAGE IA - STH 47	SHEET 87	E

FILE NAME: L:\Work\Projects\60158808\000.CAD\001_Drawings\Sheets\026107.sIA.dgn
BATCH PRINT SHEET 8 OF 11
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WISDOT/CADDS SHEET 42



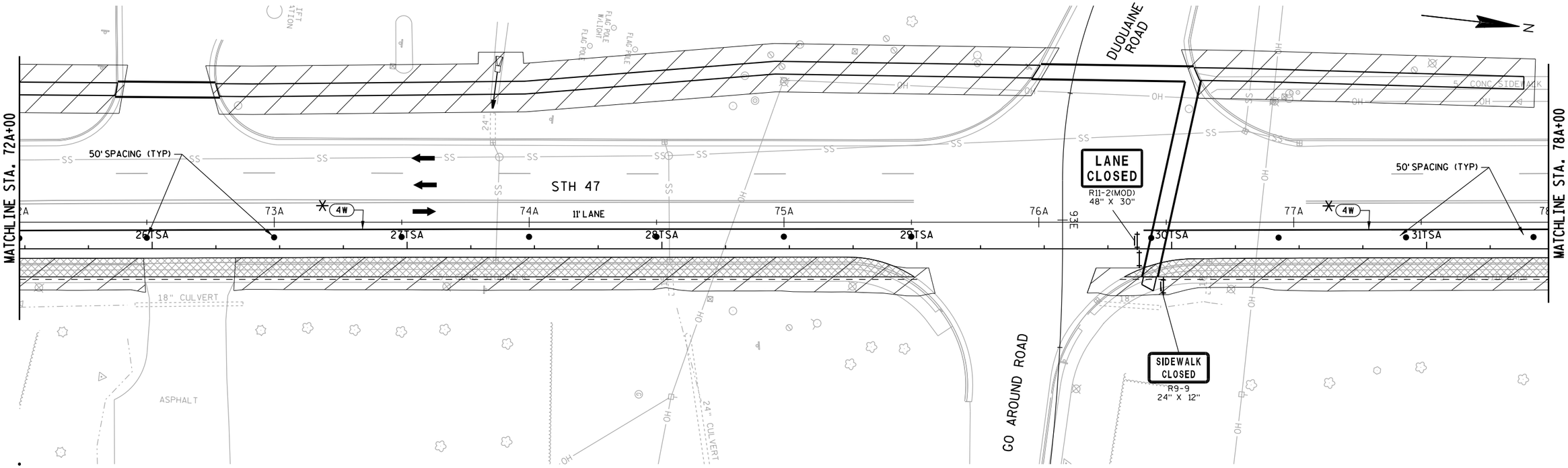
LEGEND: TEMPORARY PAVEMENT MARKING

RMPM	REMOVE PAVEMENT MARKINGS (DESCRIPTION)
4W	4-INCH (WHITE)
4Y	4-INCH (YELLOW)

* IF LANE CLOSURE IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, NO TEMPORARY PAVEMENT MARKINGS IS REQUIRED.

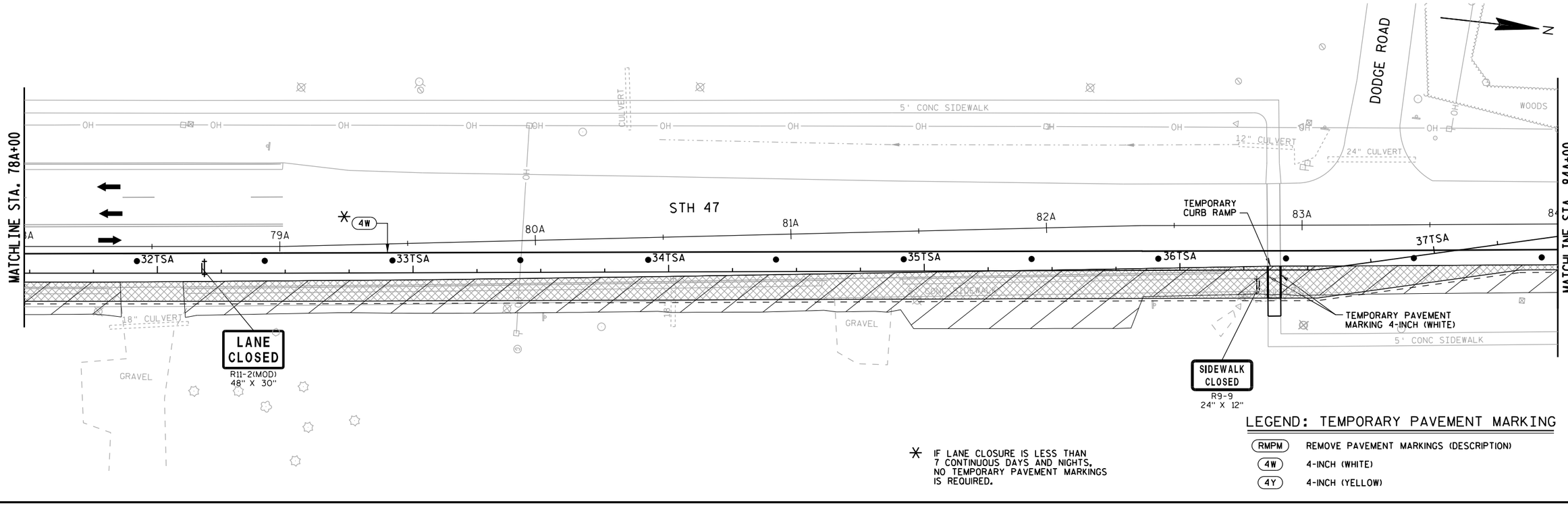
LEGEND

ø/●	TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
⊙	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER
▸	SIGN ON WOOD SUPPORT
⊢	SIGN ON PORTABLE SUPPORT (5' MIN MOUNTING HEIGHT)
XXXXX	SAWCUT (SAWING ASPHALT OR SAWING CONCRETE)
← ↰	DIRECTION OF TRAFFIC
⇕ / ↕	TYPE III BARRICADE WITH/WITH OUT ATTACHED SIGN
	TEMPORARY PAVEMENT
	WORK ZONE



PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL/CONSTRUCTION STAGE IA - STH 47	SHEET 88	E

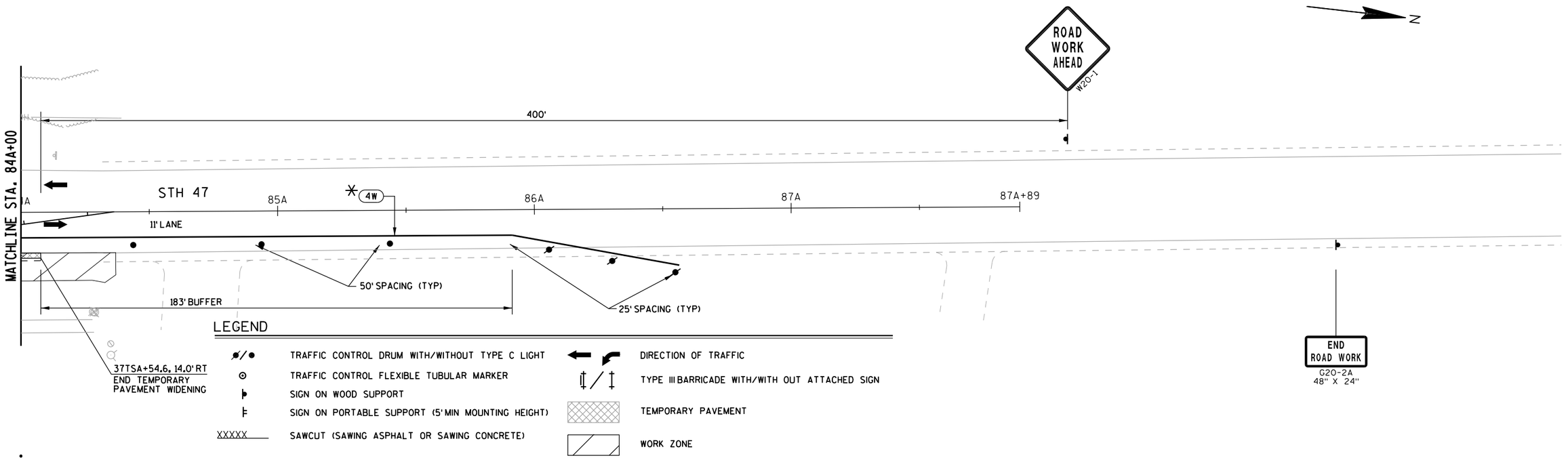
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PLOT TIME: 7:09:48 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42



✳ IF LANE CLOSURE IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, NO TEMPORARY PAVEMENT MARKINGS IS REQUIRED.

LEGEND: TEMPORARY PAVEMENT MARKING

RMPM	REMOVE PAVEMENT MARKINGS (DESCRIPTION)
4W	4-INCH (WHITE)
4Y	4-INCH (YELLOW)



LEGEND

TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	DIRECTION OF TRAFFIC
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER	TYPE III BARRICADE WITH/WITH OUT ATTACHED SIGN
SIGN ON WOOD SUPPORT	TEMPORARY PAVEMENT
SIGN ON PORTABLE SUPPORT (5' MIN MOUNTING HEIGHT)	WORK ZONE
XXXXX SAWCUT (SAWING ASPHALT OR SAWING CONCRETE)	

2

MENOMINEE
CASINO

N

STANDING PINES DRIVE

38D+26 39D 40D 41D

STH 47

4W

63A

16TSA

WOODS

12B

42D

42D+54

13B

61A

10B

14+53

14B

14TSA

15TSA

60A

HO

SIDEWALK

LEGEND

⌀/●	TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
⊙	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER
⊩	SIGN ON WOOD SUPPORT
⊩	SIGN ON PORTABLE SUPPORT (5' MIN MOUNTING HEIGHT)
XXXXX	SAWCUT (SAWING ASPHALT OR SAWING CONCRETE)
← ↰	DIRECTION OF TRAFFIC
‡/‡	TYPE III BARRICADE WITH/WITH OUT ATTACHED SIGN
	TEMPORARY PAVEMENT
	TEMPORARY PAVEMENT FROM PREVIOUS STAGE
	WORK ZONE

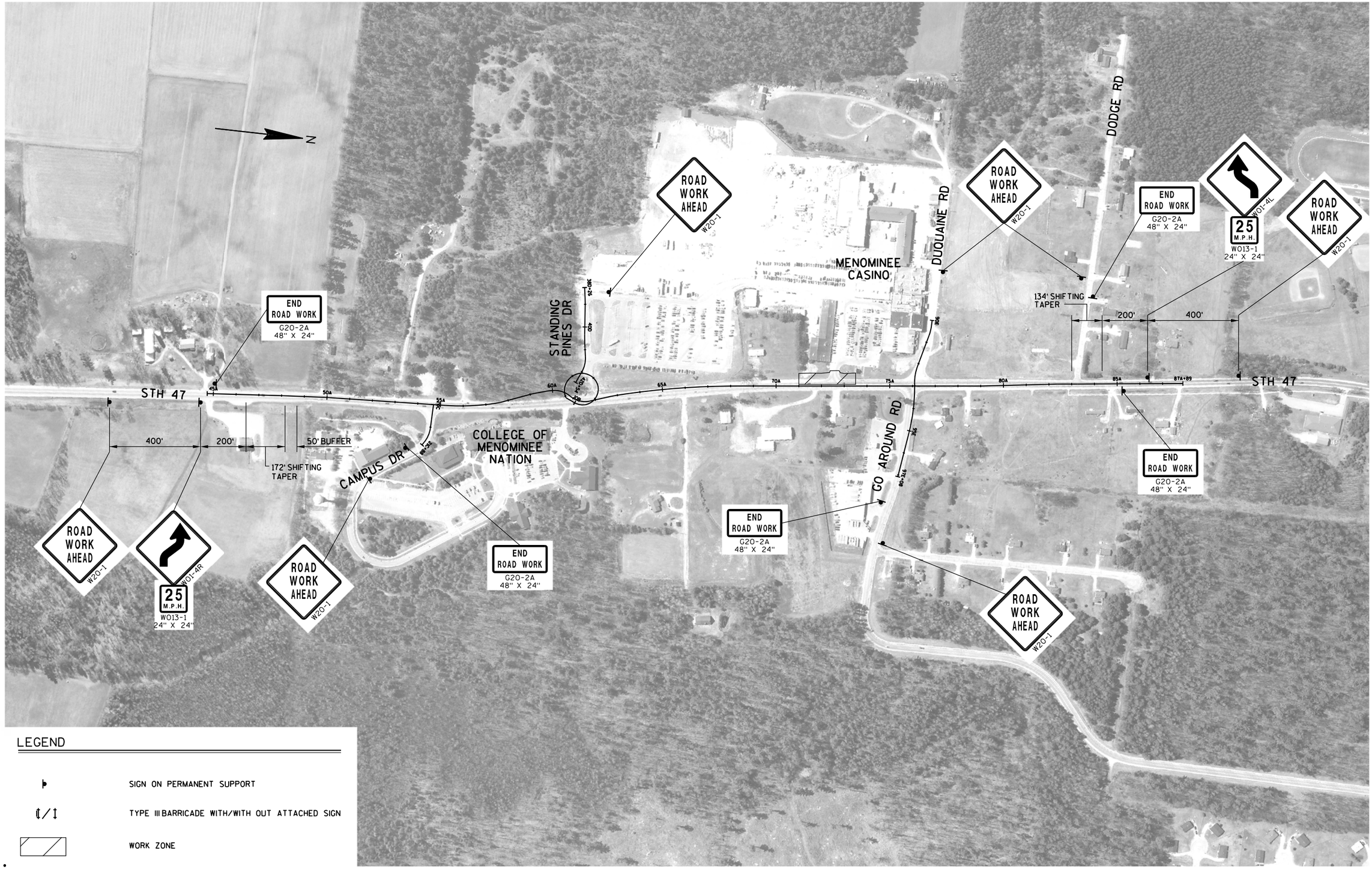
LEGEND: TEMPORARY PAVEMENT MARKING

RMPM	REMOVE PAVEMENT MARKINGS (DESCRIPTION)
4W	4-INCH (WHITE)
4Y	4-INCH (YELLOW)
4DY	4-INCH (DOUBLE YELLOW)

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL/CONSTRUCTION STAGE IA - STANDING PINES RD	SHEET 90	E

FILE NAME: L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\026110_s1A.dgn
BATCH PRINT SHEET 11 OF 11
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PLOT DATE: 10/17/2017
PLOT TIME: 7:09:54 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2



LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE WITH/WITH OUT ATTACHED SIGN
- WORK ZONE

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL/CONSTRUCTION STAGE 1B - ADVANCE SIGNING	SHEET 91	E

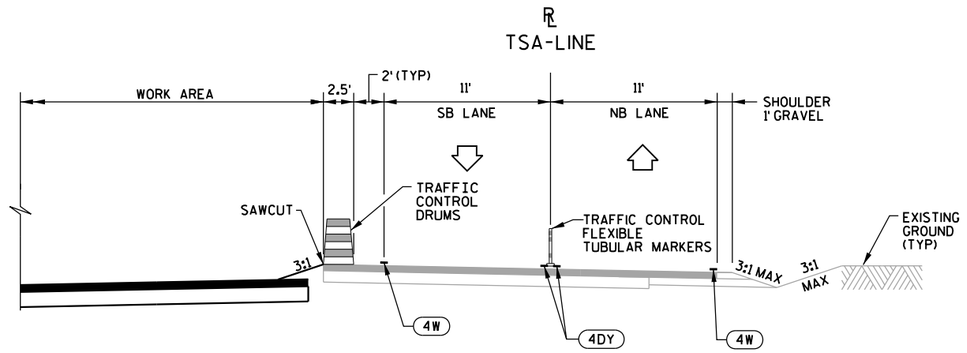
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BATCH PRINT SHEET 1 OF 9
PRINTER DRIVER: S:_acm-CADstds_Libraries\WisDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 10/17/2017
PLOT TIME: 7:24:59 AM
PLOT SCALE: 1:400
WISDOT/CADDS SHEET 42

2

LEGEND: TEMPORARY PAVEMENT MARKING

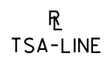
(4W) 4-INCH (WHITE)

(4DY) 4-INCH (DOUBLE YELLOW)



TYPICAL PROPOSED STAGE 1B TRAFFIC CONTROL SECTION - STH 47

RECONSTRUCT ENTRANCE TO CASINO
STA 24TSA+48 - STA 26TSA+98

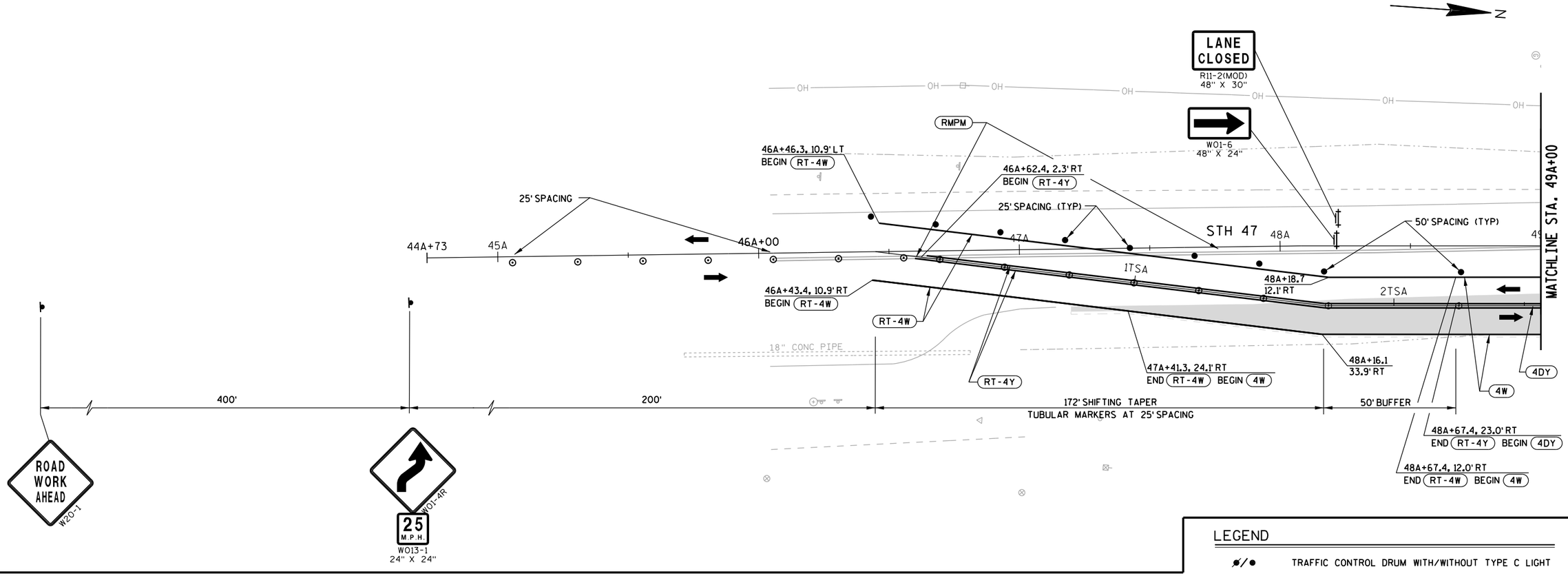


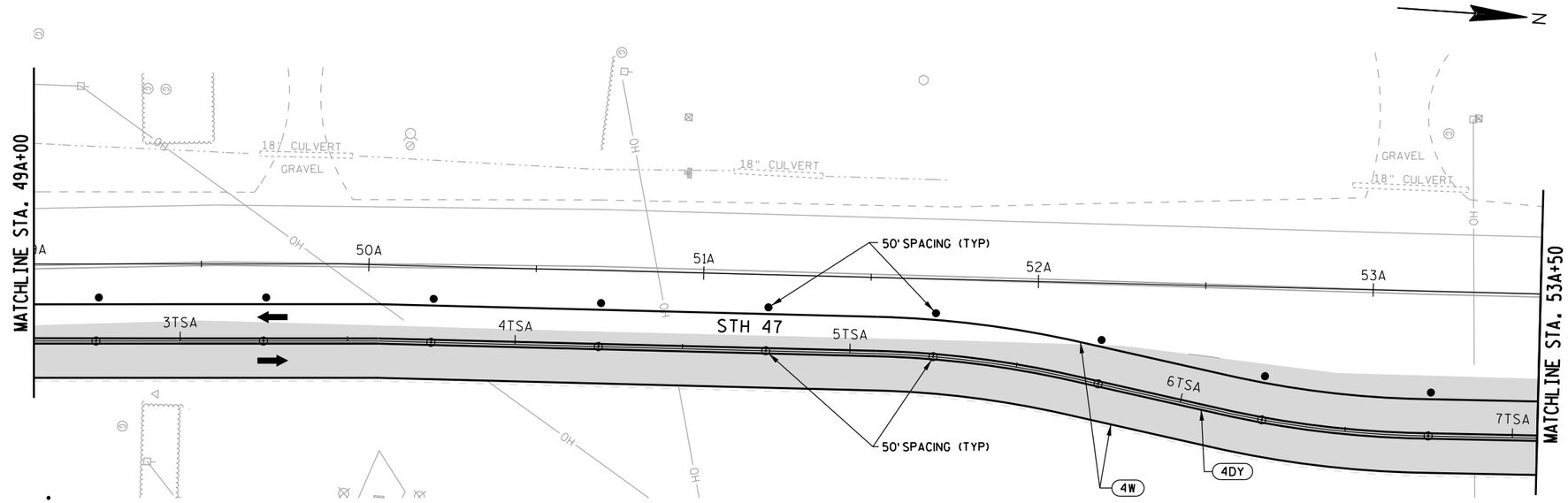
STAGE 1B TRAFFIC

MAINTAIN TRAFFIC ON A MINIMUM 11-FOOT WIDE LANE IN EACH DIRECTION
SB AND NB STH 47 TRAFFIC WILL BE SHIFTED TO EAST ONTO EXISTING NORTHBOUND LANES AND NEW TEMPORARY PAVEMENT
MAINTAIN ACCESS TO CAMPUS DRIVE, STANDING PINES DRIVE, AND DUQUAINE ROAD/ GO AROUND ROAD
MAINTAIN ACCESS TO CASINO THROUGH STANDING PINES DRIVE AND DUQUAINE ROAD
MENOMINEE COLLEGE DRIVEWAY @ 61A+20 WILL BE CLOSED
PEDESTRIANS WILL UTILIZE NEW TEMPORARY SIDEWALK ON WEST SIDE OF ROADWAY FROM STANDING PINES TO NORTH END OF PROJECT
MAINTAIN PEDESTRIAN ACCESS AT STANDING PINES DRIVE, DUQUAINE ROAD, AND NORTH PROJECT LIMITS

STAGE 1B CONSTRUCTION

CONSTRUCT STORM SEWER RUN FROM 10.0 TO 11.0 PRIOR TO TEMPORARY CASINO ENTRANCE WORK
CONSTRUCT TEMPORARY ENTRANCE TO MENOMINEE CASINO AT 72A+50 LT





LEGEND

- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER
- SIGN ON WOOD SUPPORT
- SIGN ON PORTABLE SUPPORT (5' MIN MOUNTING HEIGHT)
- XXXXX — SAWCUT (SAWING ASPHALT OR SAWING CONCRETE)
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WITH/WITH OUT ATTACHED SIGN
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT FROM PREVIOUS STAGE
- WORK ZONE

LEGEND: TEMPORARY PAVEMENT MARKING

RMPM	REMOVE PAVEMENT MARKINGS (DESCRIPTION)
4W	4-INCH (WHITE)
4Y	4-INCH (YELLOW)
4DY	4-INCH (DOUBLE YELLOW)
RT-4W	REMOVABLE TAPE 4-INCH (WHITE)
RT-4Y	REMOVABLE TAPE 4-INCH (YELLOW)

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL/CONSTRUCTION STAGE 1B - STH 47	SHEET 93	E

FILE NAME: L:\Work\Projects\60158808\000.CAD\001_Drawings\Sheets\026112_s1B.dgn
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PLOT DATE: 10/17/2017
PLOT TIME: 7:25:16 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

2

N

MATCHLINE STA. 53A+50

MATCHLINE STA. 59A+50

54A

55A

56A

57A

58A

59A

RMPM

50' SPACING (TYP)

10' SPACING (TYP)

STH 47

8TSA

9TSA

10TSA

11TSA

12TSA

13TSA

RMPM

50' SPACING (TYP)

4DY

4W

GRAVEL

WOODS

WOODS

CONCRETE

FLOOD LIGHT

FLOOD LIGHT

SIGN

OH

CAMPUS DR

21C

21C+88

12"

SS

SS

SS

SS

6" CULVERT

WOODS

LEGEND

- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER
- SIGN ON WOOD SUPPORT
- SIGN ON PORTABLE SUPPORT (5' MIN MOUNTING HEIGHT)
- XXXXX — SAWCUT (SAWING ASPHALT OR SAWING CONCRETE)
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WITH/WITH OUT ATTACHED SIGN
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT FROM PREVIOUS STAGE
- WORK ZONE

LEGEND: TEMPORARY PAVEMENT MARKING

RMPM	REMOVE PAVEMENT MARKINGS (DESCRIPTION)
4W	4-INCH (WHITE)
4Y	4-INCH (YELLOW)
4DY	4-INCH (DOUBLE YELLOW)

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL/CONSTRUCTION STAGE 1B - STH 47	SHEET 94	E

FILE NAME: L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\026113_s1B.dgn
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PLOT DATE: 10/17/2017
PLOT TIME: 7:25:19 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

LEGEND

- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER
- SIGN ON WOOD SUPPORT
- SIGN ON PORTABLE SUPPORT (5' MIN MOUNTING HEIGHT)
- XXXXX — SAWCUT (SAWING ASPHALT OR SAWING CONCRETE)
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WITH/WITH OUT ATTACHED SIGN
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT FROM PREVIOUS STAGE
- WORK ZONE

LEGEND: TEMPORARY PAVEMENT MARKING

- (RMPM) REMOVE PAVEMENT MARKINGS (DESCRIPTION)
- (4W) 4-INCH (WHITE)
- (4Y) 4-INCH (YELLOW)
- (4DY) 4-INCH (DOUBLE YELLOW)

N

STANDING PINES DRIVE

41D

MATCHLINE STA. 59A+50

MATCHLINE STA. 65A+50

STH 47

TEMPORARY PEDESTRIAN SURFACE ASPHALT

SAFETY FENCE (TYP)

TEMPORARY PEDESTRIAN SURFACE ASPHALT

STOP
R1-1
30" X 30"

61A+76.1
58.2' LT

PT 61A+72.5
46.4' LT

62A+07.7
56.0' LT

PC 62A+08.0
29.9' LT

RT-4W

15' SPACING (TYP)

MID RAD 61A+61.3
24.4' LT, 60' RAD

MID RAD 62A+22.3
4.4' LT, 50' RAD

PT 62A+57.4
20.2' RT

50' SPACING (TYP)

RMPM

4W

14TSA

15TSA

16TSA

17TSA

18TSA

4DY

PC 60A+97.3, 42.7' RT
END (RT-4W) BEGIN (4W)

PCC 61A+45.1
0.4' RT

MID RAD 61A+21.1
24.9' RT, 79' RAD

62A+68.4, 19.6' RT
END (4W) BEGIN (RT-4W)

SIDEWALK CLOSED
R9-9
24" X 12"

5' CONC STK

6" CULVERT

ROAD CLOSED
R11-2
48" X 30"

ASPHALT

WOODS

OH

SS

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL/CONSTRUCTION STAGE IB - STH 47	SHEET 95	E

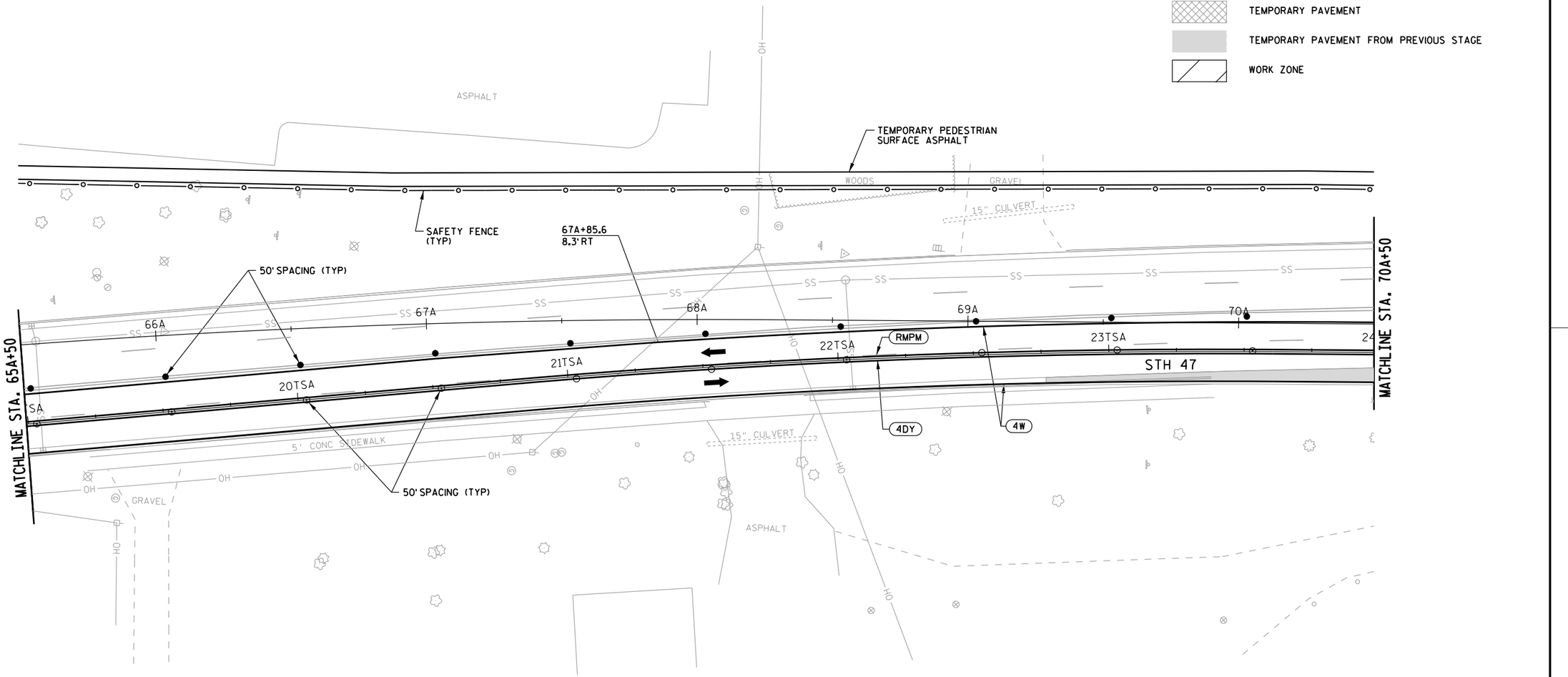
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PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

2

LEGEND

- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER
- SIGN ON WOOD SUPPORT
- SIGN ON PORTABLE SUPPORT (5' MIN MOUNTING HEIGHT)
- XXXXX — SAWCUT (SAWING ASPHALT OR SAWING CONCRETE)
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WITH/WITH OUT ATTACHED SIGN
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT FROM PREVIOUS STAGE
- WORK ZONE



LEGEND: TEMPORARY PAVEMENT MARKING

RMPM	REMOVE PAVEMENT MARKINGS (DESCRIPTION)
4W	4-INCH (WHITE)
4Y	4-INCH (YELLOW)
4DY	4-INCH (DOUBLE YELLOW)

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL/CONSTRUCTION STAGE 1B - STH 47	SHEET 96	E

FILE NAME: L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\026115_s1B.dgn
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WISDOT/CADDS SHEET 42

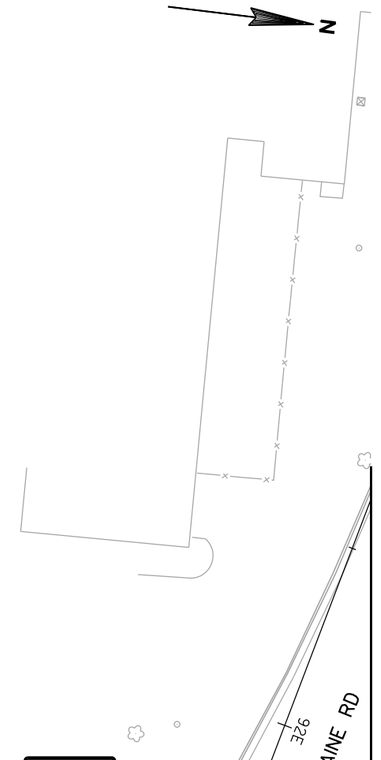
LEGEND

- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER
- SIGN ON WOOD SUPPORT
- SIGN ON PORTABLE SUPPORT (5' MIN MOUNTING HEIGHT)
- XXXXX — SAWCUT (SAWING ASPHALT OR SAWING CONCRETE)
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WITH/WITH OUT ATTACHED SIGN
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT FROM PREVIOUS STAGE
- WORK ZONE

LEGEND: TEMPORARY PAVEMENT MARKING

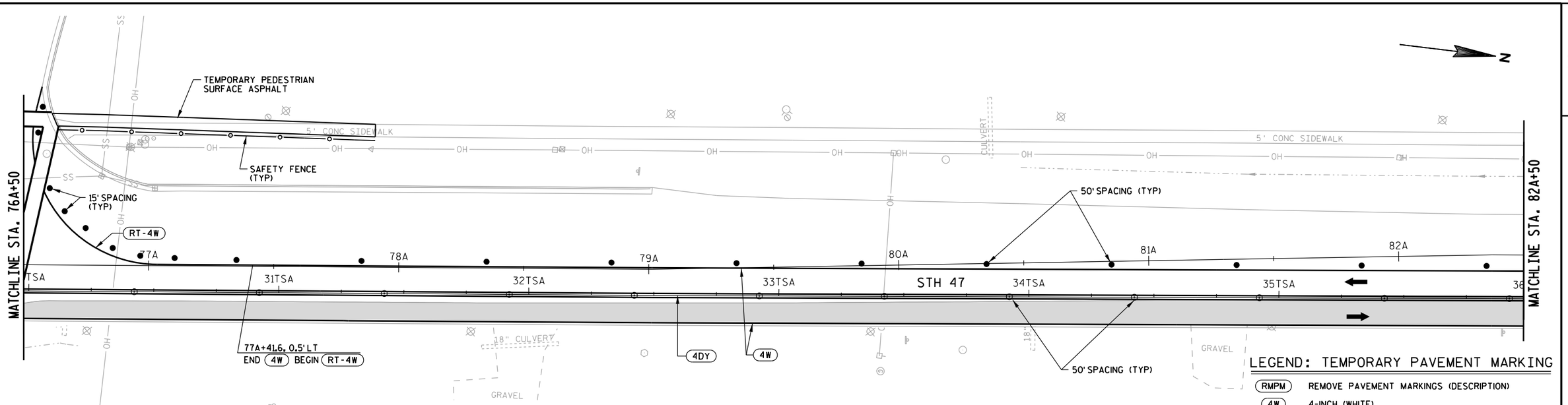
- (RMPM) REMOVE PAVEMENT MARKINGS (DESCRIPTION)
- (4W) 4-INCH (WHITE)
- (4Y) 4-INCH (YELLOW)
- (4DY) 4-INCH (DOUBLE YELLOW)

MENOMINEE
CASINO



PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL/CONSTRUCTION STAGE 1B - STH 47	SHEET 97	E

FILE NAME: L:\Work\Projects\60158808\000.CAD\001_Drawings\Sheets\026116_s1B.dgn
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WISDOT/CADDS SHEET 42

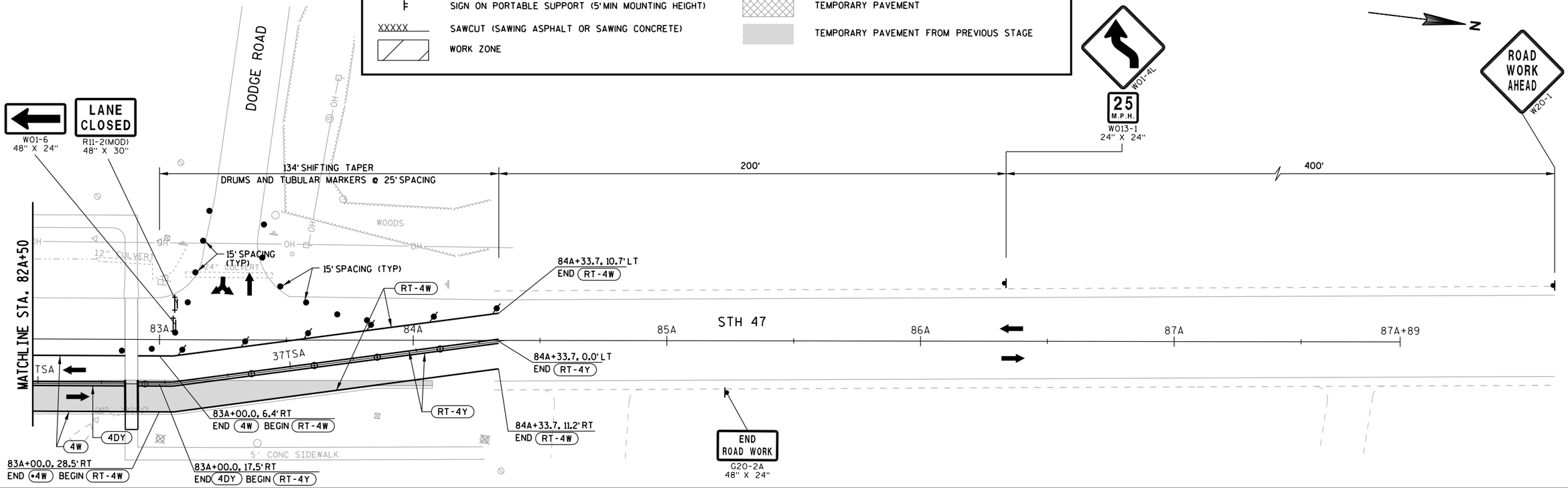


LEGEND: TEMPORARY PAVEMENT MARKING

RMPM	REMOVE PAVEMENT MARKINGS (DESCRIPTION)
4W	4-INCH (WHITE)
4Y	4-INCH (YELLOW)
4DY	4-INCH (DOUBLE YELLOW)
RT-4W	REMOVABLE TAPE 4-INCH (WHITE)
RT-4Y	REMOVABLE TAPE 4-INCH (YELLOW)

LEGEND

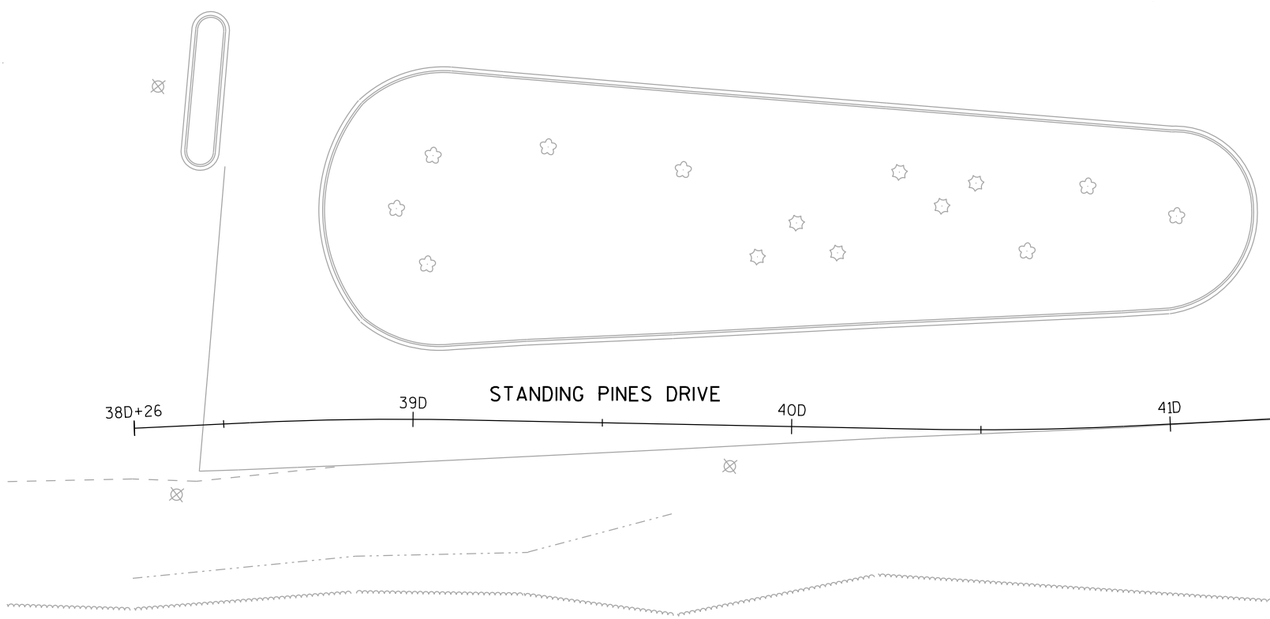
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER
- SIGN ON WOOD SUPPORT
- SIGN ON PORTABLE SUPPORT (5'MIN MOUNTING HEIGHT)
- XXXXX SAWCUT (SAWING ASPHALT OR SAWING CONCRETE)
- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WITH/WITH OUT ATTACHED SIGN
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT FROM PREVIOUS STAGE

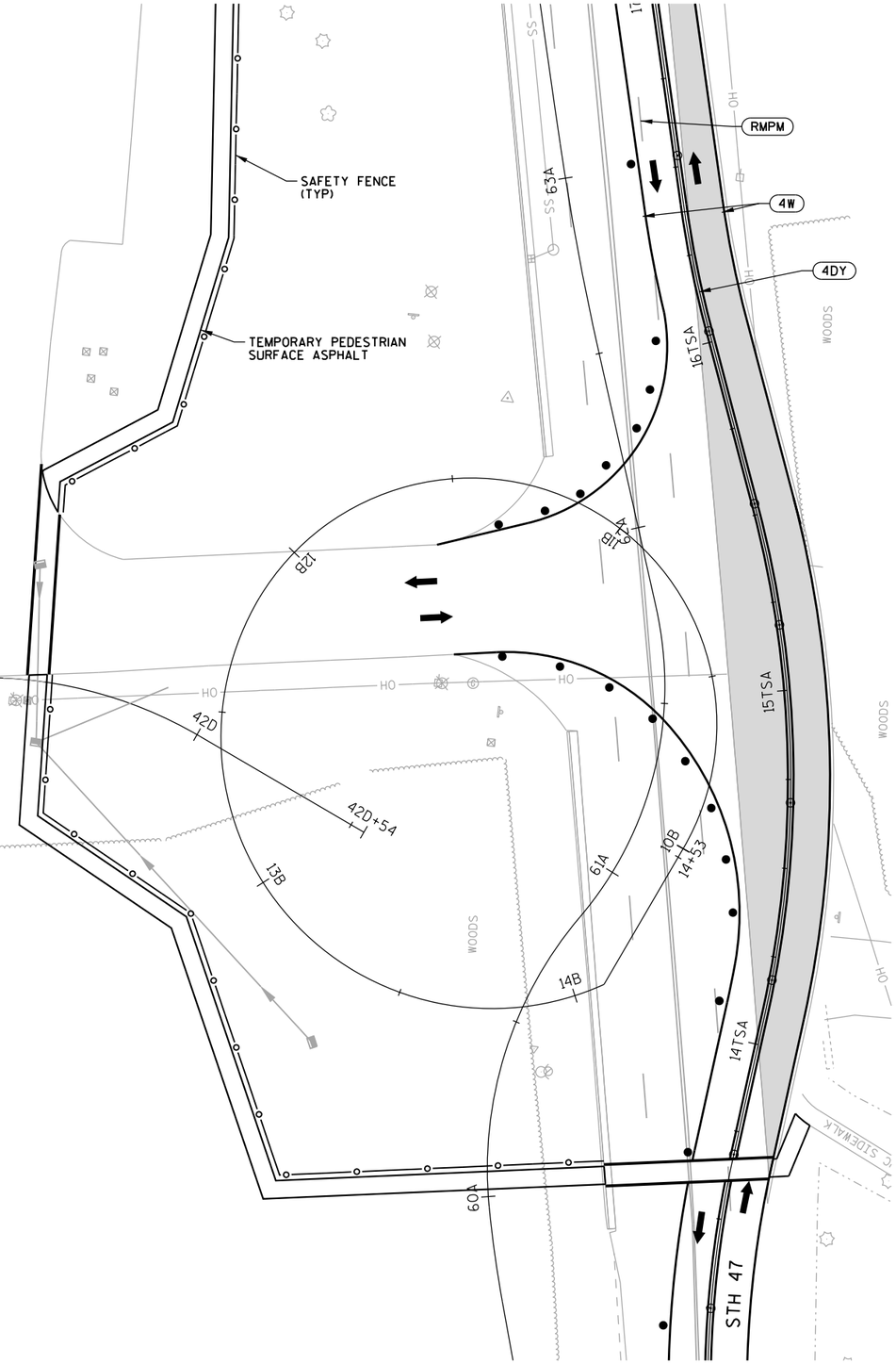


PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL/CONSTRUCTION STAGE IB - STH 47	SHEET 98	E

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PLOT DATE: 10/17/2017
PLOT TIME: 7:25:30 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

MENOMINEE
CASINO





LEGEND

- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER
- SIGN ON WOOD SUPPORT
- SIGN ON PORTABLE SUPPORT (5' MIN MOUNTING HEIGHT)
- XXXXX — SAWCUT (SAWING ASPHALT OR SAWING CONCRETE)
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WITH/WITH OUT ATTACHED SIGN
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT FROM PREVIOUS STAGE
- WORK ZONE

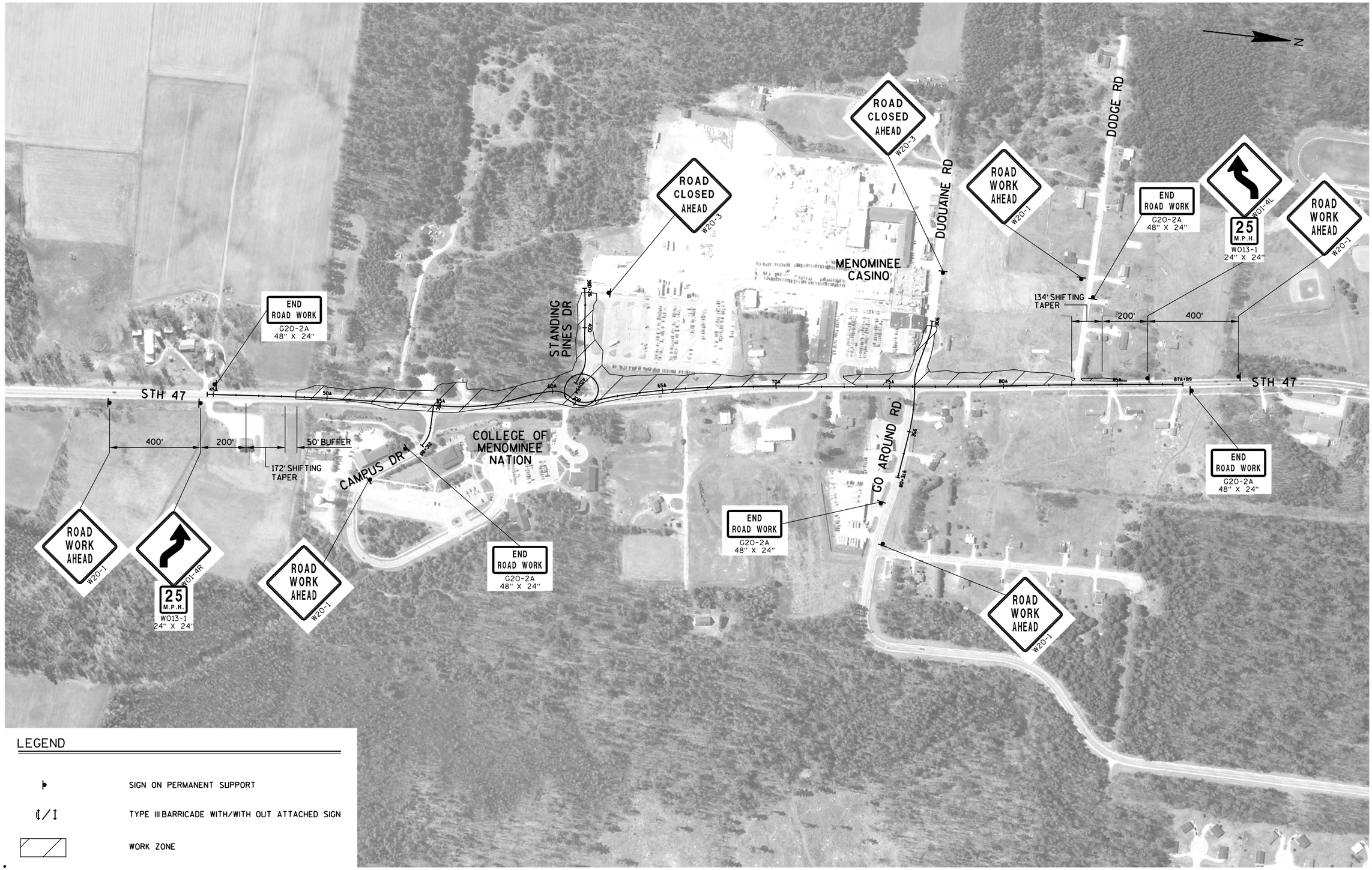
LEGEND: TEMPORARY PAVEMENT MARKING

RMPM	REMOVE PAVEMENT MARKINGS (DESCRIPTION)
4W	4-INCH (WHITE)
4Y	4-INCH (YELLOW)
4DY	4-INCH (DOUBLE YELLOW)

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL/CONSTRUCTION STAGE 1B - STANDING PINES RD	SHEET 99	E

FILE NAME: L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\026118_s1B.dgn
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PLOT DATE: 10/17/2017
PLOT TIME: 7:25:33 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2



LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE WITH/WITH OUT ATTACHED SIGN
- WORK ZONE

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL/CONSTRUCTION STAGE IC - ADVANCE SIGNING	SHEET 100	E

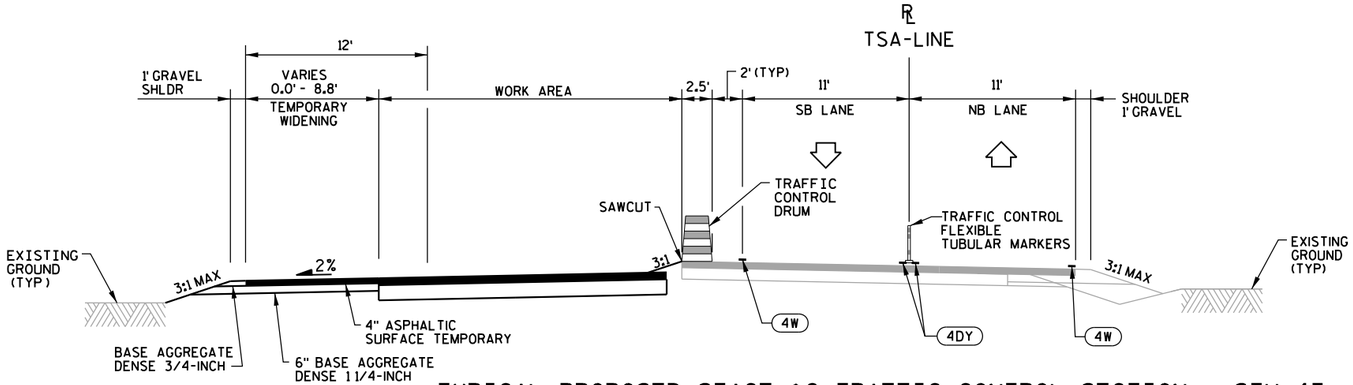
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WISDOT/CADDS SHEET 42

2

LEGEND: TEMPORARY PAVEMENT MARKING

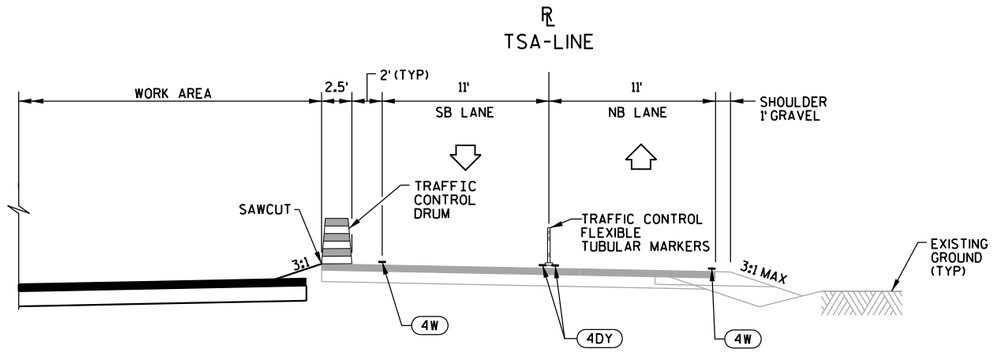
(4W) 4-INCH (WHITE)

(4DY) 4-INCH (DOUBLE YELLOW)



TYPICAL PROPOSED STAGE 1C TRAFFIC CONTROL SECTION - STH 47

TEMPORARY PAVEMENT SECTION - NORTH LIMITS
STA 79A+01 - STA 85A+42



TYPICAL PROPOSED STAGE 1C TRAFFIC CONTROL SECTION - STH 47

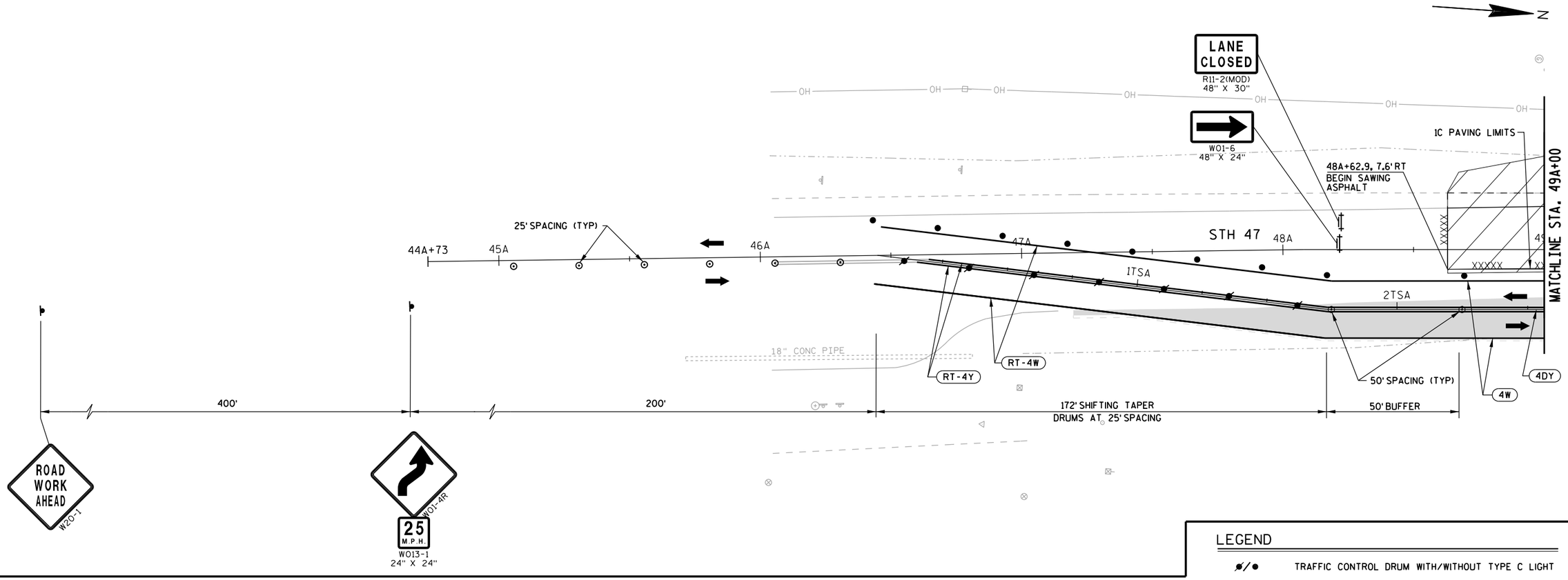
RECONSTRUCT SOUTHBOUND LANES
STA 48A+67 - STA 79A+01

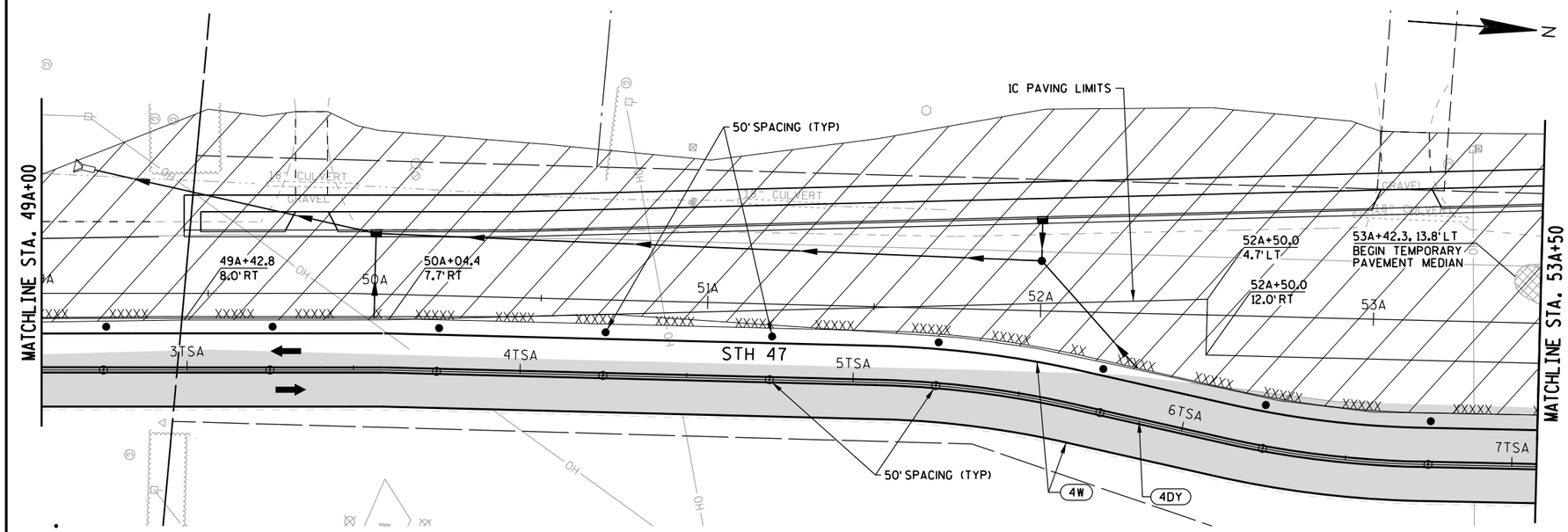
STAGE 1C TRAFFIC

MAINTAIN TRAFFIC ON A MINIMUM 11-FOOT WIDE LANE IN EACH DIRECTION
SB AND NB STH 47 TRAFFIC WILL BE SHIFTED TO EAST ONTO EXISTING NORTHBOUND LANES AND NEW TEMPORARY PAVEMENT
MAINTAIN ACCESS TO CAMPUS DRIVE AND GO AROUND ROAD
MENOMINE COLLEGE DRIVEWAY @ 61A+20 WILL BE CLOSED
STANDING PINES DRIVE WILL BE CLOSED UNTIL COMPLETION OF 1C
DUQUAINE ROAD WILL BE CLOSED EXCEPT FOR DELIVERY TRUCKS TO REAR OF CASINO
CASINO ENTRANCE AT 72A+50 LT WILL BE OPEN TO LOCAL TRAFFIC
PEDESTRIANS WILL UTILIZE NEW TEMPORARY SIDEWALK ON WEST SIDE OF ROADWAY FROM STANDING PINES TO NORTH END OF PROJECT UNTIL VERY END OF STAGE 1C WHEN THEY WILL BE SWITCHED TO NEW PERMANENT SIDEWALK
MAINTAIN PEDESTRIAN ACCESS AT STANDING PINES DRIVE, DUQUAINE ROAD, AND NORTH PROJECT LIMITS

STAGE 1C CONSTRUCTION

CONSTRUCT WEST SIDE OF STH 47
CONSTRUCT STANDING PINES DRIVE AND DUQUAINE ROAD





LEGEND

- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER
- SIGN ON WOOD SUPPORT
- SIGN ON PORTABLE SUPPORT (5' MIN MOUNTING HEIGHT)
- XXXXX — SAWCUT (SAWING ASPHALT OR SAWING CONCRETE)
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WITH/WITH OUT ATTACHED SIGN
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT FROM PREVIOUS STAGE
- WORK ZONE

LEGEND: TEMPORARY PAVEMENT MARKING

RMPM	REMOVE PAVEMENT MARKINGS (DESCRIPTION)
4W	4-INCH (WHITE)
4Y	4-INCH (YELLOW)
4DY	4-INCH (DOUBLE YELLOW)
RT-4W	REMOVABLE TAPE 4-INCH (WHITE)
RT-4Y	REMOVABLE TAPE 4-INCH (YELLOW)

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL/CONSTRUCTION STAGE IC - STH 47	SHEET 102	E

2

N

ROAD CLOSED
R11-2
48" X 30"

W01-7
48" X 24"

MATCHLINE STA. 53A+50

MATCHLINE STA. 59A+50

54A+41.9, 7.9' LT
END TEMPORARY
PAVEMENT MEDIAN

55A+07.5, 8.2' LT
BEGIN TEMPORARY
PAVEMENT MEDIAN

PC 55A+23.6
12.0' RT

MID RAD 56A+42.9
12.0' RT, 1012' RAD

56A+84.6
20.9' LT

PT 57A+62.1
12.0' RT

58A+24.5, 0.0' RT
END TEMPORARY
PAVEMENT MEDIAN

58A+70.1
20.7' RT

58A+69.7
25.7' RT

59A+09.4
28.9' RT

PC 59A+33.2
26.3' RT

10' SPACING (TYP)

50' SPACING (TYP)

50' SPACING (TYP)

STH 47

IC PAVING LIMITS

CAMPUS DR

21C

21C+88

4W

4DY

WOODS

GRAVEL

CONCRETE

CULVERT

FLOOD LIGHT

SIGN

OH

SS

LEGEND

- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER
- SIGN ON WOOD SUPPORT
- SIGN ON PORTABLE SUPPORT (5' MIN MOUNTING HEIGHT)
- XXXXX — SAWCUT (SAWING ASPHALT OR SAWING CONCRETE)
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WITH/WITH OUT ATTACHED SIGN
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT FROM PREVIOUS STAGE
- WORK ZONE

LEGEND: TEMPORARY PAVEMENT MARKING

RMPM	REMOVE PAVEMENT MARKINGS (DESCRIPTION)
4W	4-INCH (WHITE)
4Y	4-INCH (YELLOW)
4DY	4-INCH (DOUBLE YELLOW)

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL/CONSTRUCTION STAGE IC - STH 47	SHEET 103	E

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PLOT DATE: 10/24/2017
PLOT TIME: 3:26:58 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

N

LEGEND

- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER
- SIGN ON WOOD SUPPORT
- SIGN ON PORTABLE SUPPORT (5' MIN MOUNTING HEIGHT)
- XXXXX SAWCUT (SAWING ASPHALT OR SAWING CONCRETE)
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WITH/WITH OUT ATTACHED SIGN
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT FROM PREVIOUS STAGE
- WORK ZONE

STANDING PINES DRIVE

ROAD CLOSED
R11-2
48" X 30"

TEMPORARY PEDESTRIAN SURFACE ASPHALT

TEMPORARY PEDESTRIAN SURFACE ASPHALT

SAFETY FENCE (TYP)

1C PAVING LIMITS

MATCHLINE STA. 59A+50

MATCHLINE STA. 65A+50

50' SPACING (TYP)

MID RAD 59A+64.1
24.1' RT, 300' RAD

PCC 59A+97.1
24.0' RT

MID RAD 60A+32.3
24.0' RT, 85' RAD

PT 60A+67.6
24.0' RT

60A+95.4
21.6' RT

61A+12.0
22.2' RT

PC 61A+12.0
12.0' RT

PT 61A+77.0
12.0' RT

MID RAD 61A+44.5
12.0' RT, 114' RAD

PC 62A+50.6
12.0' RT

MID RAD 62A+80.2
12.0' RT, 788' RAD

PCC 63A+09.7
12.0' RT

MID RAD 64A+64.9
12.0' RT, 3472' RAD

STH 47

14TSA

15TSA

16TSA

17TSA

18TSA

4W

4DY

WOODS

ASPHALT

5' CONC SIDEWALK

6" CULVERT

OH

SIDEWALK CLOSED
R9-9
24" X 12"

ROAD CLOSED
R11-2
48" X 30"

LEGEND: TEMPORARY PAVEMENT MARKING

- (RMPM) REMOVE PAVEMENT MARKINGS (DESCRIPTION)
- (4W) 4-INCH (WHITE)
- (4Y) 4-INCH (YELLOW)
- (4DY) 4-INCH (DOUBLE YELLOW)

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL/CONSTRUCTION STAGE 1C - STH 47	SHEET 104	E

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PLOT DATE: 10/24/2017
PLOT TIME: 3:27:00 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

LEGEND: TEMPORARY PAVEMENT MARKING

RMPM	REMOVE PAVEMENT MARKINGS (DESCRIPTION)
4W	4-INCH (WHITE)
4Y	4-INCH (YELLOW)
4DY	4-INCH (DOUBLE YELLOW)

LEGEND

	TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER
	SIGN ON WOOD SUPPORT
	SIGN ON PORTABLE SUPPORT (5' MIN MOUNTING HEIGHT)
XXXXX	SAWCUT (SAWING ASPHALT OR SAWING CONCRETE)
	DIRECTION OF TRAFFIC
	TYPE III BARRICADE WITH/WITH OUT ATTACHED SIGN
	TEMPORARY PAVEMENT
	TEMPORARY PAVEMENT FROM PREVIOUS STAGE
	WORK ZONE

N

MATCHLINE STA. 65A+50

SAFETY FENCE

ASPHALT

TEMPORARY PEDESTRIAN SURFACE ASPHALT

IC PAVING LIMITS

50' SPACING (TYP)

25' SPACING (TYP)

MATCHLINE STA. 71A+50

PC 66A+20.0
0.0'LT

PT 66A+20.0
12.0'RT

MID RAD 67A+00.0
0.0'LT, 3484'RAD

PCC 67A+50.0
0.0'LT

PT 67A+50.0
7.0'LT

RAD PT 67A+90.5
7.0'LT, 287'RAD

PT 68A+30.9
7.0'LT

66A

67A

68A

69A

70A

71A

20TSA

21TSA

22TSA

23TSA

24TSA

STH 47

WOODS

GRAVEL

CULVERT

OH

SS

XXXXX

5' CONC SIDEWALK

15" CULVERT

4DY

4W

70A+91.9
0.3'LT

50' SPACING (TYP)

ASPHALT

GRAVEL

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL/CONSTRUCTION STAGE IC - STH 47	SHEET	E

FILE NAME: L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\026125_s1C.dgn
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WISDOT/CADDS SHEET 42

LEGEND

- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER
- SIGN ON WOOD SUPPORT
- SIGN ON PORTABLE SUPPORT (5'MIN MOUNTING HEIGHT)
- XXXXX SAWCUT (SAWING ASPHALT OR SAWING CONCRETE)
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WITH/WITH OUT ATTACHED SIGN
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT FROM PREVIOUS STAGE
- WORK ZONE

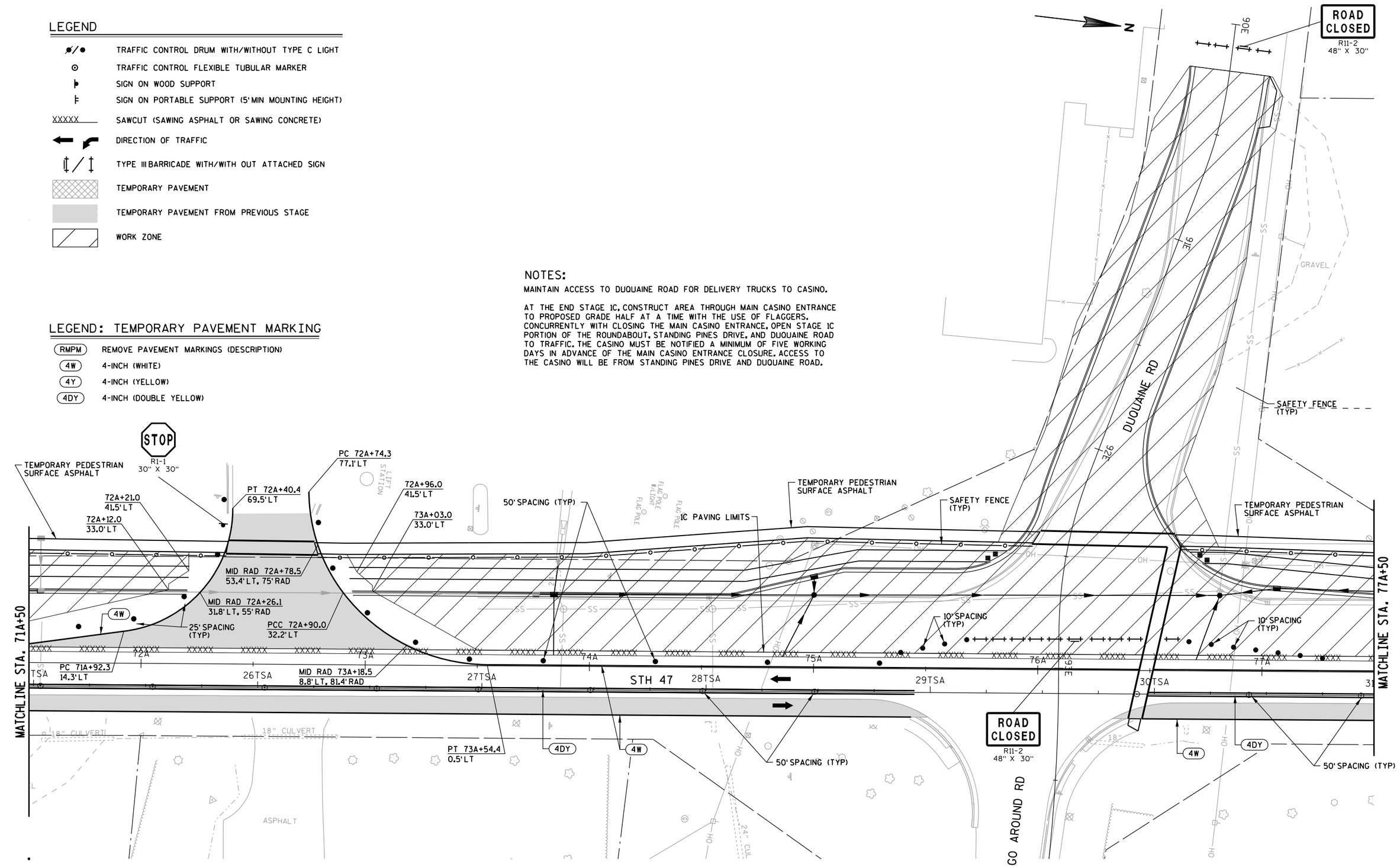
LEGEND: TEMPORARY PAVEMENT MARKING

- (RMPM) REMOVE PAVEMENT MARKINGS (DESCRIPTION)
- (4W) 4-INCH (WHITE)
- (4Y) 4-INCH (YELLOW)
- (4DY) 4-INCH (DOUBLE YELLOW)

NOTES:

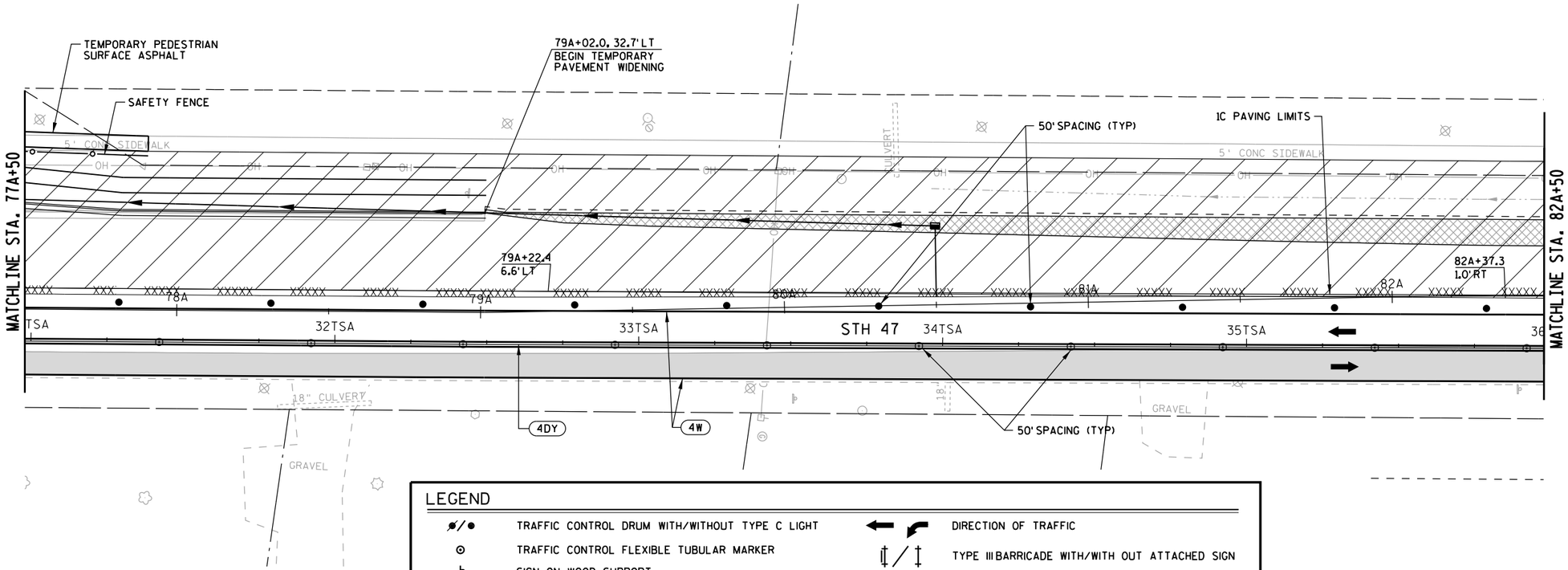
MAINTAIN ACCESS TO DUQUAINE ROAD FOR DELIVERY TRUCKS TO CASINO.

AT THE END STAGE 1C, CONSTRUCT AREA THROUGH MAIN CASINO ENTRANCE TO PROPOSED GRADE HALF AT A TIME WITH THE USE OF FLAGGERS. CONCURRENTLY WITH CLOSING THE MAIN CASINO ENTRANCE, OPEN STAGE 1C PORTION OF THE ROUNDABOUT, STANDING PINES DRIVE, AND DUQUAINE ROAD TO TRAFFIC. THE CASINO MUST BE NOTIFIED A MINIMUM OF FIVE WORKING DAYS IN ADVANCE OF THE MAIN CASINO ENTRANCE CLOSURE. ACCESS TO THE CASINO WILL BE FROM STANDING PINES DRIVE AND DUQUAINE ROAD.



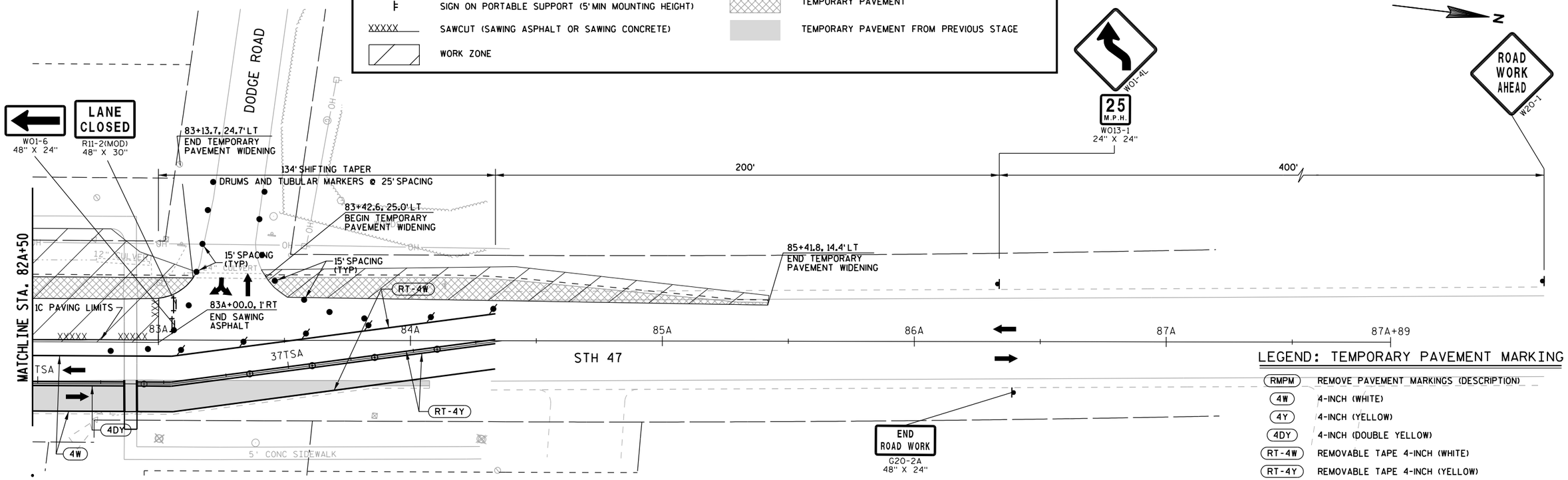
PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL/CONSTRUCTION STAGE 1C - STH 47	SHEET 106 E

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WISDOT/CADDS SHEET 42



LEGEND

TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	DIRECTION OF TRAFFIC
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER	TYPE III BARRICADE WITH/WITH OUT ATTACHED SIGN
SIGN ON WOOD SUPPORT	TEMPORARY PAVEMENT
SIGN ON PORTABLE SUPPORT (5' MIN MOUNTING HEIGHT)	TEMPORARY PAVEMENT FROM PREVIOUS STAGE
XXXXX SAWCUT (SAWING ASPHALT OR SAWING CONCRETE)	
WORK ZONE	



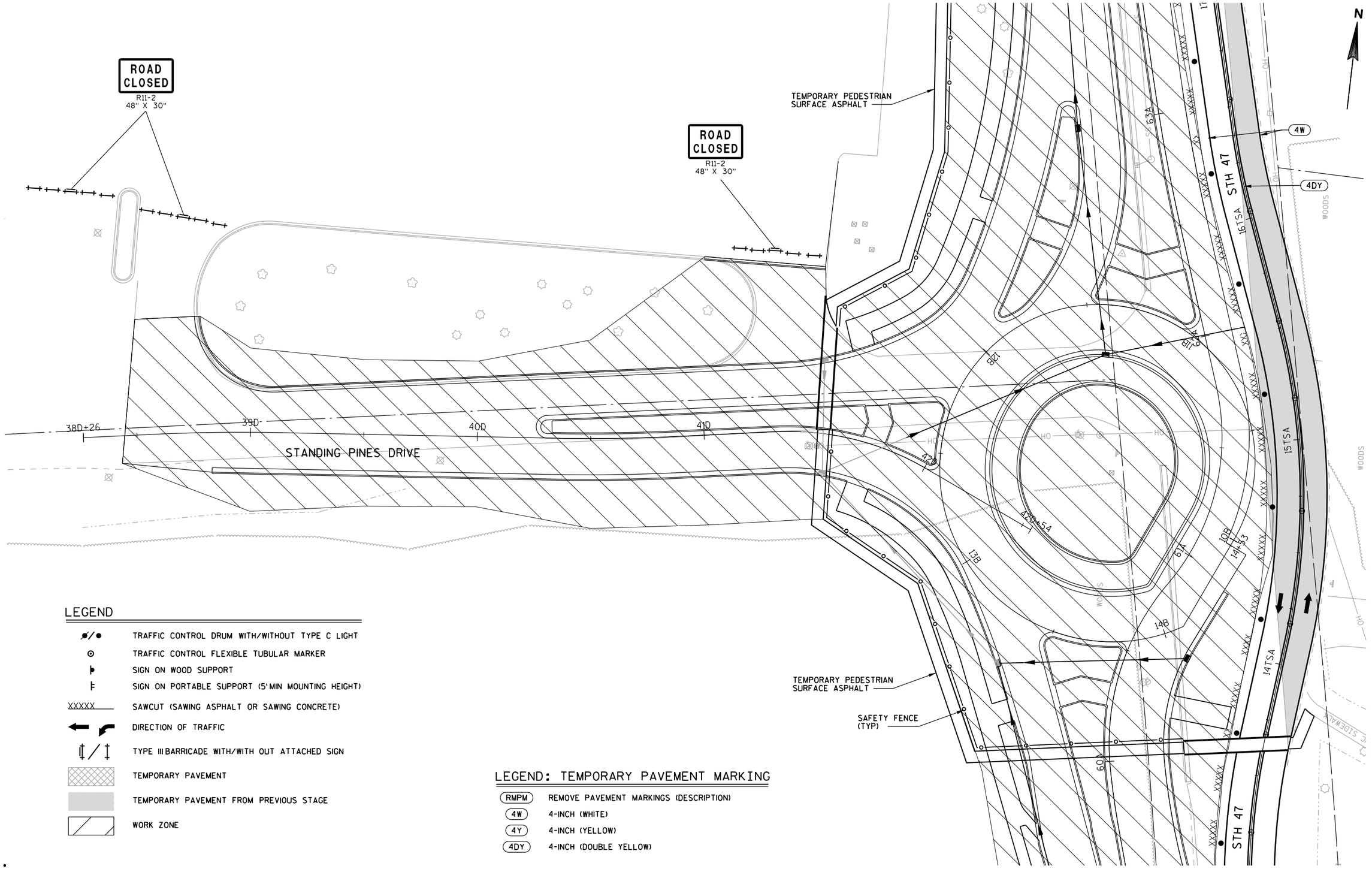
LEGEND: TEMPORARY PAVEMENT MARKING

RMPM	REMOVE PAVEMENT MARKINGS (DESCRIPTION)
4W	4-INCH (WHITE)
4Y	4-INCH (YELLOW)
4DY	4-INCH (DOUBLE YELLOW)
RT-4W	REMOVABLE TAPE 4-INCH (WHITE)
RT-4Y	REMOVABLE TAPE 4-INCH (YELLOW)

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL/CONSTRUCTION STAGE IC - STH 47	SHEET 107	E

FILE NAME: L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\026127_sIC.dgn
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PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2



LEGEND

⌀/●	TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
⊙	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER
⊧	SIGN ON WOOD SUPPORT
⊧	SIGN ON PORTABLE SUPPORT (5'MIN MOUNTING HEIGHT)
XXXXX	SAWCUT (SAWING ASPHALT OR SAWING CONCRETE)
← ↱	DIRECTION OF TRAFFIC
‡/‡	TYPE III BARRICADE WITH/WITH OUT ATTACHED SIGN
	TEMPORARY PAVEMENT
	TEMPORARY PAVEMENT FROM PREVIOUS STAGE
	WORK ZONE

LEGEND: TEMPORARY PAVEMENT MARKING

RMPM	REMOVE PAVEMENT MARKINGS (DESCRIPTION)
4W	4-INCH (WHITE)
4Y	4-INCH (YELLOW)
4DY	4-INCH (DOUBLE YELLOW)

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL/CONSTRUCTION STAGE IC - STANDING PINES RD	SHEET 108	E

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WISDOT/CADDS SHEET 42

2

N

ROAD WORK AHEAD W20-1

ROAD WORK AHEAD W20-1

ROAD WORK AHEAD W20-1

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

W01-4R

25 M.P.H. W013-1 24" X 24"

130' BUFFER

136' SHIFTING TAPER

200' MIN

400'

DODGE RD

DUQUAINE RD

MENOMINEE CASINO

STANDING PINES DR

STH 47

STH 47

COLLEGE OF MENOMINEE NATION

CAMPUS DR

42' BUFFER

400'

200'

180' SHIFTING TAPER

END ROAD WORK G20-2A 48" X 24"

W01-4L

25 M.P.H. W013-1 24" X 24"

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

GO AROUND RD

END ROAD WORK G20-2A 48" X 24"

ROAD CLOSED AHEAD W20-3

END ROAD WORK G20-2A 48" X 24"

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE WITH/WITH OUT ATTACHED SIGN
- WORK ZONE

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL/CONSTRUCTION STAGE 2A - ADVANCE SIGNING	SHEET 109	E

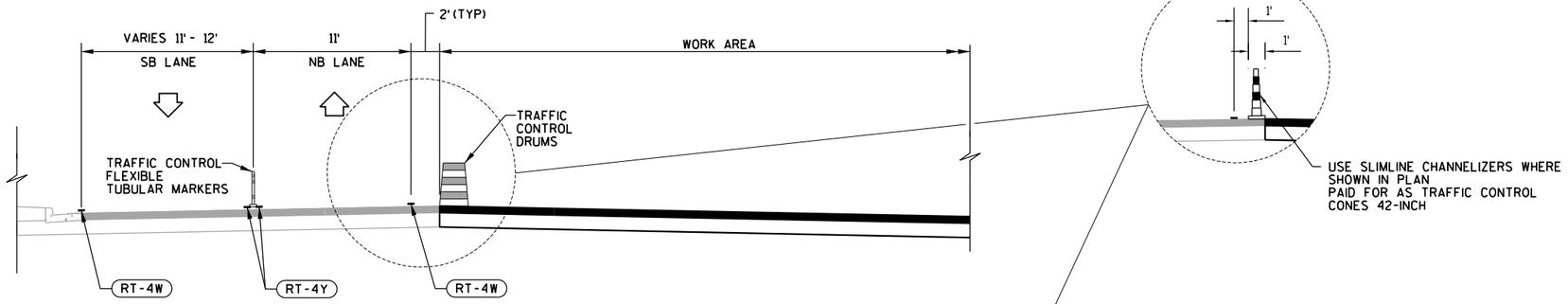
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WISDOT/CADDS SHEET 42

STAGE 2A TRAFFIC

MAINTAIN TRAFFIC ON A MINIMUM 11-FOOT WIDE LANE IN EACH DIRECTION
SB STH 47 TRAFFIC WILL UTILIZE NEW SOUTHBOUND STH 47 OUTSIDE LANE
NB STH 47 TRAFFIC WILL UTILIZE NEW SOUTHBOUND STH 47 INSIDE LANE
SB AND NB STH 47 TRAFFIC WILL BE SEPERATED COMING INTO/ LEAVING THE ROUND ABOUT.
ROUND ABOUT LANES WILL BE COMPLETELY OPEN TO TRAFFIC MOVEMENTS
MAINTAIN ACCESS TO CASINO THROUGH STANDING PINES DRIVE AND DUQUAINE ROAD
MAINTAIN ACCESS TO CAMPUS DRIVE EXCEPT FOR ONE 12-HOUR NIGHTTIME CLOSURE
GO AROUND ROAD WILL BE CLOSED
MENOMINEE COLLEGE DRIVEWAY AT 61A+20 WILL BE CLOSED
PEDESTRIANS WILL UTILIZE NEW PERMANENT SIDEWALK ON WEST SIDE OF ROADWAY FROM STANDING PINES TO NORTH END OF PROJECT
MAINTAIN PEDESTRIAN ACCESS AT STANDING PINES DRIVE, DUQUAINE ROAD, AND NORTH PROJECT LIMITS
MAINTAIN PEDESTRIAN ACCESS AT GO AROUND ROAD UTILIZING EXISTING SIDEWALK UNTIL NEW SIDEWALK IS CONSTRUCTED

STAGE 2A CONSTRUCTION

CONSTRUCT EAST SIDE OF STH 47
CONSTRUCT GO AROUND ROAD, CAMPUS DRIVE
REMOVE TEMPORARY SIDEWALK ALONG WEST SIDE OF STH 47 AND FINISH GRADING SLOPES



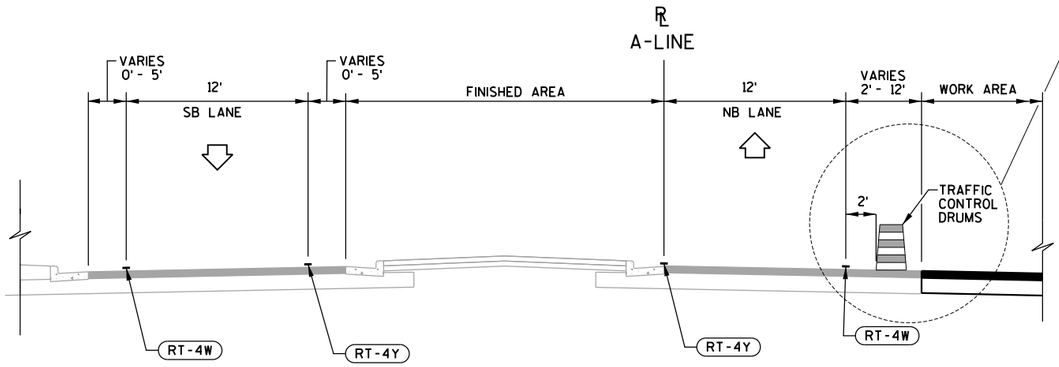
TYPICAL PROPOSED STAGE 2A TRAFFIC CONTROL SECTION - STH 47

STA 48A+25 - STA 52A+70
STA 66A+57 - STA 83A+00

LEGEND: TEMPORARY PAVEMENT MARKING

(RT-4W) REMOVABLE TAPE 4-INCH (WHITE)

(RT-4Y) REMOVABLE TAPE 4-INCH (YELLOW)

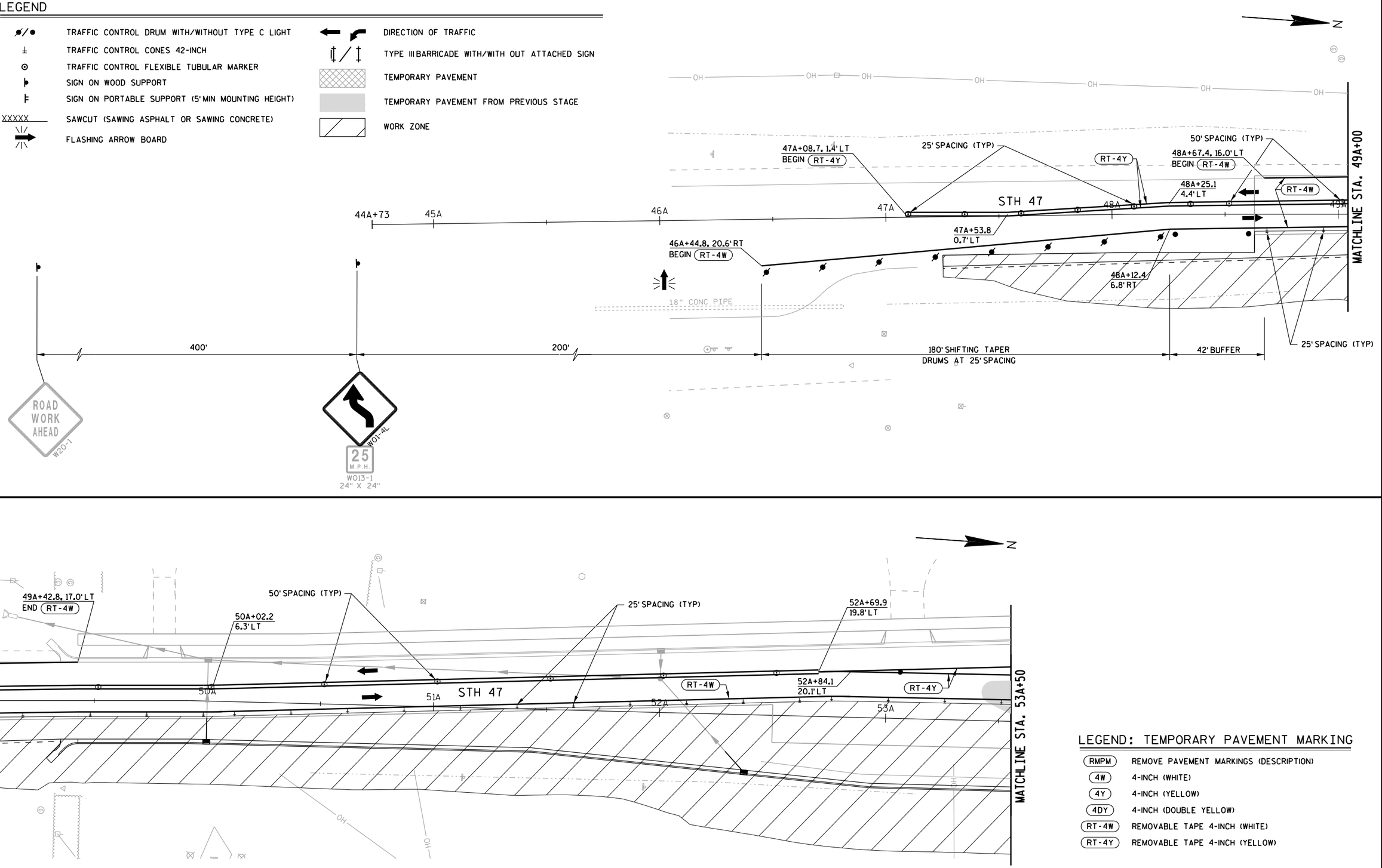


TYPICAL PROPOSED STAGE 2A TRAFFIC CONTROL SECTION - STH 47

STA 52A+70 - STA 59A+72
STA 64A+89 - STA 66A+57

LEGEND

- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL CONES 42-INCH
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER
- SIGN ON WOOD SUPPORT
- SIGN ON PORTABLE SUPPORT (5' MIN MOUNTING HEIGHT)
- XXXXX SAWCUT (SAWING ASPHALT OR SAWING CONCRETE)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WITH/WITH OUT ATTACHED SIGN
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT FROM PREVIOUS STAGE
- WORK ZONE

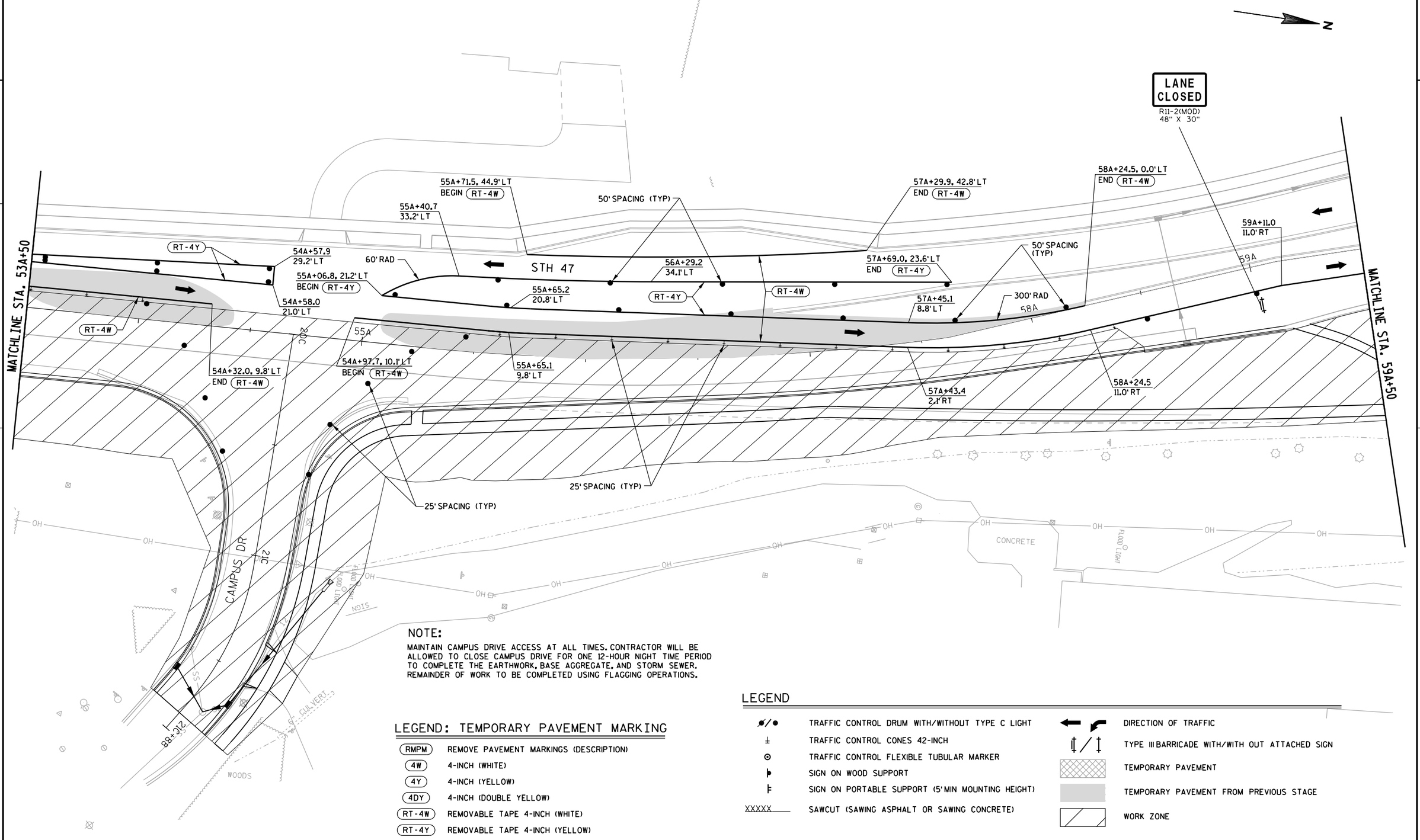


LEGEND: TEMPORARY PAVEMENT MARKING

RMPM	REMOVE PAVEMENT MARKINGS (DESCRIPTION)
4W	4-INCH (WHITE)
4Y	4-INCH (YELLOW)
4DY	4-INCH (DOUBLE YELLOW)
RT-4W	REMOVABLE TAPE 4-INCH (WHITE)
RT-4Y	REMOVABLE TAPE 4-INCH (YELLOW)

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL/CONSTRUCTION STAGE 2A - STH 47	SHEET 111	E

2



NOTE:

MAINTAIN CAMPUS DRIVE ACCESS AT ALL TIMES. CONTRACTOR WILL BE ALLOWED TO CLOSE CAMPUS DRIVE FOR ONE 12-HOUR NIGHT TIME PERIOD TO COMPLETE THE EARTHWORK, BASE AGGREGATE, AND STORM SEWER. REMAINDER OF WORK TO BE COMPLETED USING FLAGGING OPERATIONS.

LEGEND: TEMPORARY PAVEMENT MARKING

RMPM	REMOVE PAVEMENT MARKINGS (DESCRIPTION)
4W	4-INCH (WHITE)
4Y	4-INCH (YELLOW)
4DY	4-INCH (DOUBLE YELLOW)
RT-4W	REMOVABLE TAPE 4-INCH (WHITE)
RT-4Y	REMOVABLE TAPE 4-INCH (YELLOW)

LEGEND

⌀/●	TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
±	TRAFFIC CONTROL CONES 42-INCH
⊙	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER
⊧	SIGN ON WOOD SUPPORT
⊧	SIGN ON PORTABLE SUPPORT (5' MIN MOUNTING HEIGHT)
XXXXX	SAWCUT (SAWING ASPHALT OR SAWING CONCRETE)
	DIRECTION OF TRAFFIC
‡/‡	TYPE III BARRICADE WITH/WITH OUT ATTACHED SIGN
	TEMPORARY PAVEMENT
	TEMPORARY PAVEMENT FROM PREVIOUS STAGE
	WORK ZONE

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL/CONSTRUCTION STAGE 2A - STH 47	SHEET 112	E

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PLOT TIME: 7:34:39 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

LEGEND: TEMPORARY PAVEMENT MARKING

RMPM	REMOVE PAVEMENT MARKINGS (DESCRIPTION)
4W	4-INCH (WHITE)
4Y	4-INCH (YELLOW)
4DY	4-INCH (DOUBLE YELLOW)
RT-4W	REMOVABLE TAPE 4-INCH (WHITE)
RT-4Y	REMOVABLE TAPE 4-INCH (YELLOW)
RTDL-4W	REMOVABLE TAPE 4-INCH (WHITE) (DOTTED LINE) (3' LINE, 9' GAPS)
RTDL-4Y	REMOVABLE TAPE 4-INCH (YELLOW) (DOTTED LINE) (3' LINE, 9' GAPS)

N

STANDING PINES DRIVE

41D

60A+72.7, 112.8' LT
BEGIN RTDL-4W

60A+52.8, 79.4' LT
END RTDL-4W

RTDL-4W

61A+90.9, 117.9' LT
END RTDL-4W

RTDL-4W

42D

42D-54

13B

12B

62A+29.9, 71.8' LT
BEGIN RTDL-4W

50' SPACING (TYP)

RTDL-4W

64A+67.7, 16.1' LT
END RT-4Y

25' SPACING (TYP)

RT-4Y

MATCHLINE STA. 59A+50

60A

STH 47

RT-4W

14B

61A

63A+06.4, 34.4' LT
END RTDL-4W

63A

64A

STH 47

65A

RT-4W

MATCHLINE STA. 65A+50

65A+17.0, 0.0' LT
END RT-4Y

RI-2
36" X 31"

10B

14B53

62A

WOODS

WOODS

WOODS

OH

OH

OH

OH

OH

OH

OH

TEMPORARY PEDESTRIAN
SURFACE ASPHALT

6' CONC. SIDEWALK

6' CULVERT

SIDEWALK
CLOSED
R9-9
24" X 12"

ROAD
CLOSED
R11-2
48" X 30"

LEGEND

TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	DIRECTION OF TRAFFIC
TRAFFIC CONTROL CONES 42-INCH	TYPE III BARRICADE WITH/WITH OUT ATTACHED SIGN
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER	TEMPORARY PAVEMENT
SIGN ON WOOD SUPPORT	TEMPORARY PAVEMENT FROM PREVIOUS STAGE
SIGN ON PORTABLE SUPPORT (5' MIN MOUNTING HEIGHT)	WORK ZONE
XXXXX SAWCUT (SAWING ASPHALT OR SAWING CONCRETE)	

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL/CONSTRUCTION STAGE 2A - STH 47	SHEET 113	E

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WISDOT/CADDS SHEET 42

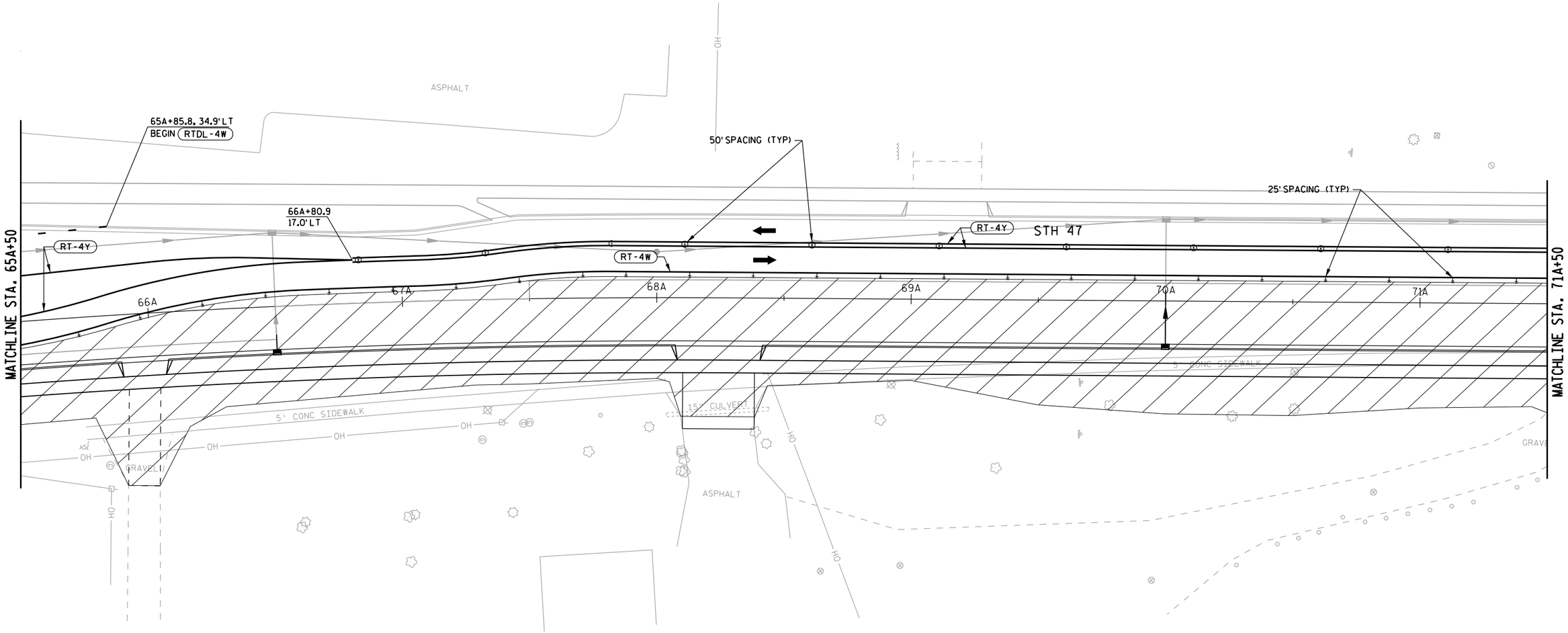
LEGEND

⌀/●	TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
±	TRAFFIC CONTROL CONES 42-INCH
⊙	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER
⊢	SIGN ON WOOD SUPPORT
⊢	SIGN ON PORTABLE SUPPORT (5' MIN MOUNTING HEIGHT)
XXXXX	SAWCUT (SAWING ASPHALT OR SAWING CONCRETE)
← ↖	DIRECTION OF TRAFFIC
‡/‡	TYPE III BARRICADE WITH/WITH OUT ATTACHED SIGN
	TEMPORARY PAVEMENT
	TEMPORARY PAVEMENT FROM PREVIOUS STAGE
	WORK ZONE

LEGEND: TEMPORARY PAVEMENT MARKING

RMPM	REMOVE PAVEMENT MARKINGS (DESCRIPTION)
4W	4-INCH (WHITE)
4Y	4-INCH (YELLOW)
4DY	4-INCH (DOUBLE YELLOW)
RT-4W	REMOVABLE TAPE 4-INCH (WHITE)
RT-4Y	REMOVABLE TAPE 4-INCH (YELLOW)

N



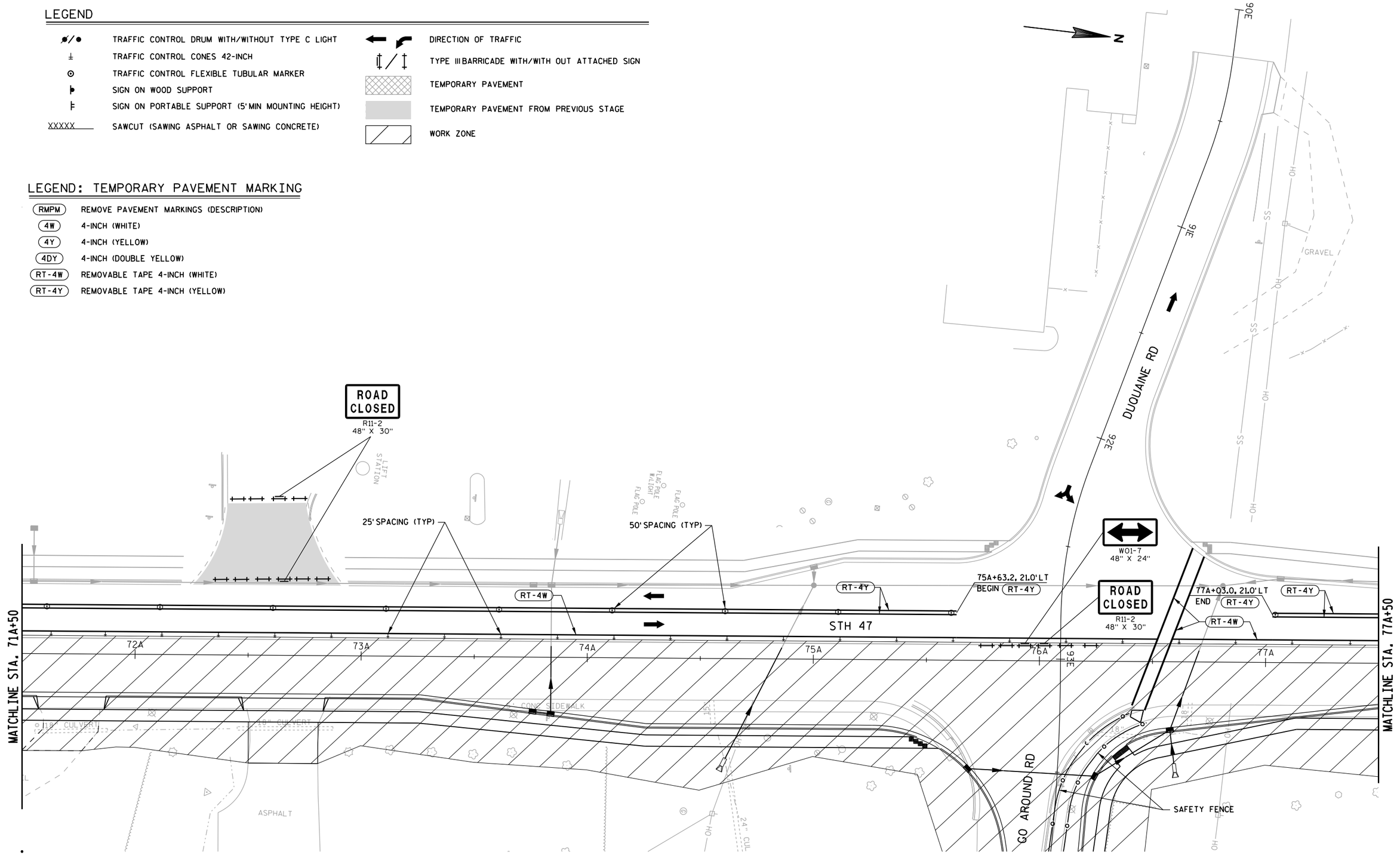
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LEGEND

⌀/●	TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
±	TRAFFIC CONTROL CONES 42-INCH
⊙	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER
⊢	SIGN ON WOOD SUPPORT
⊢	SIGN ON PORTABLE SUPPORT (5'MIN MOUNTING HEIGHT)
XXXXX	SAWCUT (SAWING ASPHALT OR SAWING CONCRETE)
← ↰	DIRECTION OF TRAFFIC
‡/‡	TYPE III BARRICADE WITH/WITH OUT ATTACHED SIGN
	TEMPORARY PAVEMENT
	TEMPORARY PAVEMENT FROM PREVIOUS STAGE
	WORK ZONE

LEGEND: TEMPORARY PAVEMENT MARKING

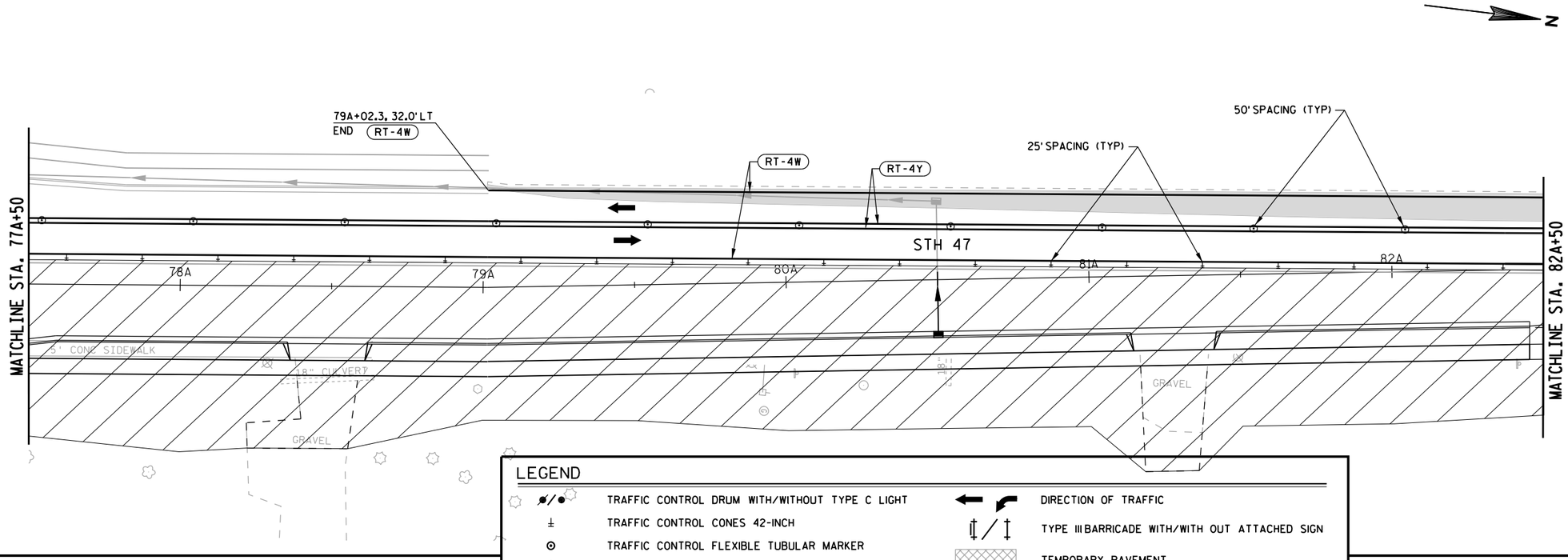
RMPM	REMOVE PAVEMENT MARKINGS (DESCRIPTION)
4W	4-INCH (WHITE)
4Y	4-INCH (YELLOW)
4DY	4-INCH (DOUBLE YELLOW)
RT-4W	REMOVABLE TAPE 4-INCH (WHITE)
RT-4Y	REMOVABLE TAPE 4-INCH (YELLOW)



PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL/CONSTRUCTION STAGE 2A - STH 47	SHEET 115	E

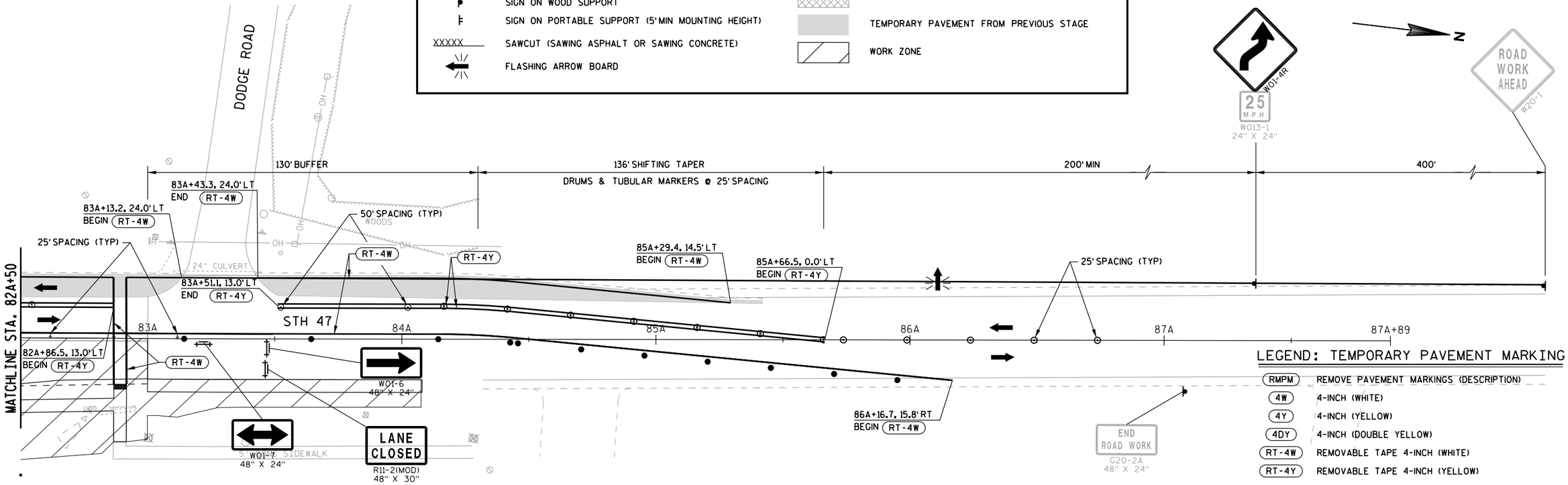
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PLOT DATE: 10/17/2017
PLOT TIME: 7:34:48 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2



LEGEND

TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	DIRECTION OF TRAFFIC
TRAFFIC CONTROL CONES 42-INCH	TYPE III BARRICADE WITH/WITH OUT ATTACHED SIGN
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER	TEMPORARY PAVEMENT
SIGN ON WOOD SUPPORT	TEMPORARY PAVEMENT FROM PREVIOUS STAGE
SIGN ON PORTABLE SUPPORT (5'MIN MOUNTING HEIGHT)	WORK ZONE
SAWCUT (SAWING ASPHALT OR SAWING CONCRETE)	
FLASHING ARROW BOARD	



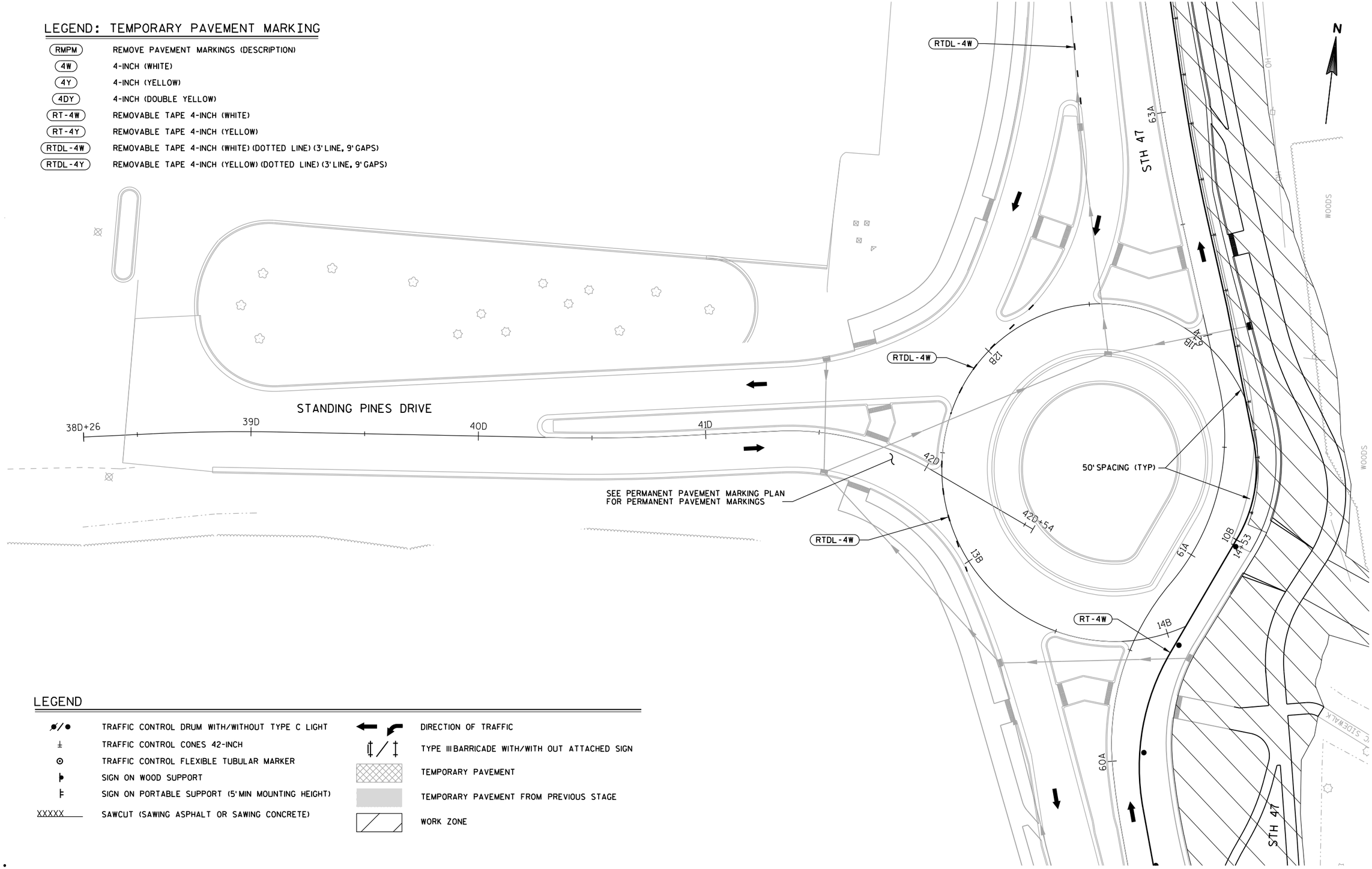
LEGEND: TEMPORARY PAVEMENT MARKING

RMPM	REMOVE PAVEMENT MARKINGS (DESCRIPTION)
4W	4-INCH (WHITE)
4Y	4-INCH (YELLOW)
4DY	4-INCH (DOUBLE YELLOW)
RT-4W	REMOVABLE TAPE 4-INCH (WHITE)
RT-4Y	REMOVABLE TAPE 4-INCH (YELLOW)

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL/CONSTRUCTION STAGE 2A - STH 47	SHEET 116 E

LEGEND: TEMPORARY PAVEMENT MARKING

RMPM	REMOVE PAVEMENT MARKINGS (DESCRIPTION)
4W	4-INCH (WHITE)
4Y	4-INCH (YELLOW)
4DY	4-INCH (DOUBLE YELLOW)
RT-4W	REMOVABLE TAPE 4-INCH (WHITE)
RT-4Y	REMOVABLE TAPE 4-INCH (YELLOW)
RTDL-4W	REMOVABLE TAPE 4-INCH (WHITE) (DOTTED LINE) (3' LINE, 9' GAPS)
RTDL-4Y	REMOVABLE TAPE 4-INCH (YELLOW) (DOTTED LINE) (3' LINE, 9' GAPS)

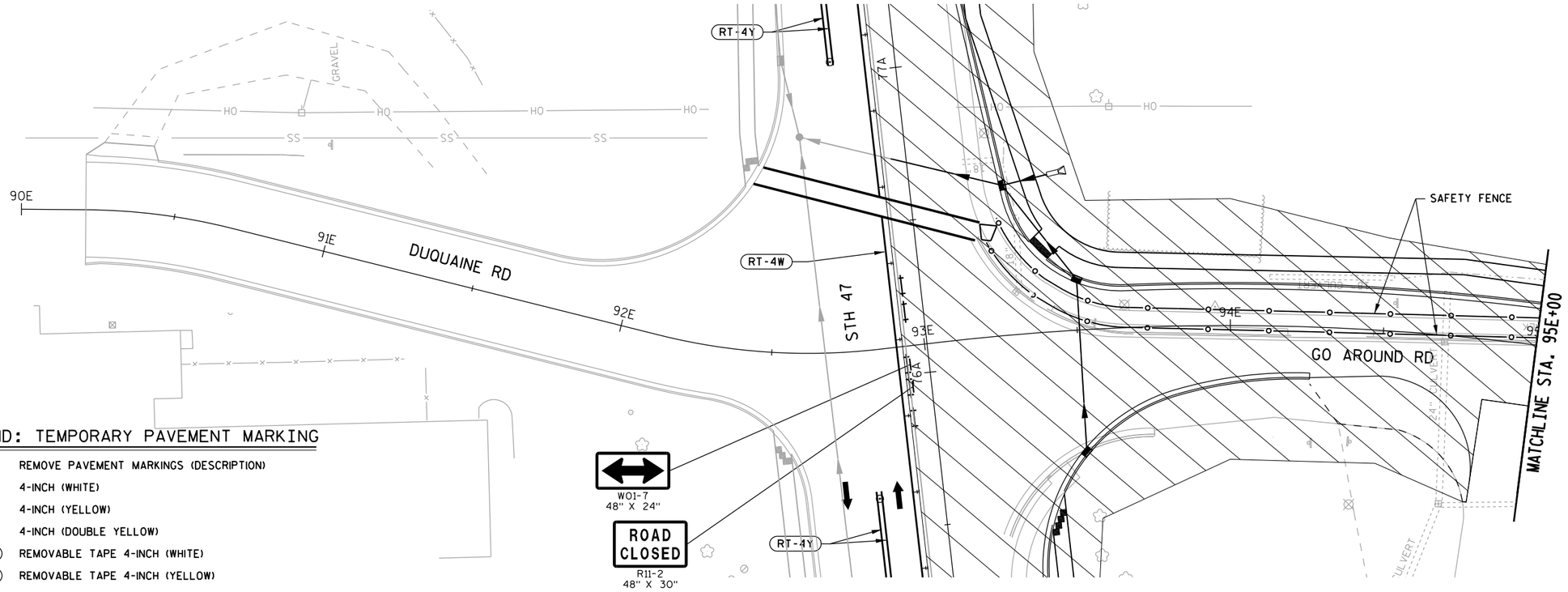


LEGEND

⌀/●	TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
±	TRAFFIC CONTROL CONES 42-INCH
⊙	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER
⊧	SIGN ON WOOD SUPPORT
⊧	SIGN ON PORTABLE SUPPORT (5' MIN MOUNTING HEIGHT)
XXXXX	SAWCUT (SAWING ASPHALT OR SAWING CONCRETE)
← ↰	DIRECTION OF TRAFFIC
‡/‡	TYPE III BARRICADE WITH/WITH OUT ATTACHED SIGN
	TEMPORARY PAVEMENT
	TEMPORARY PAVEMENT FROM PREVIOUS STAGE
	WORK ZONE

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL/CONSTRUCTION STAGE 2A - STANDING PINES RD	SHEET 117	E

FILE NAME: L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\026208_s2A.dgn
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PLOT TIME: 7:34:54 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

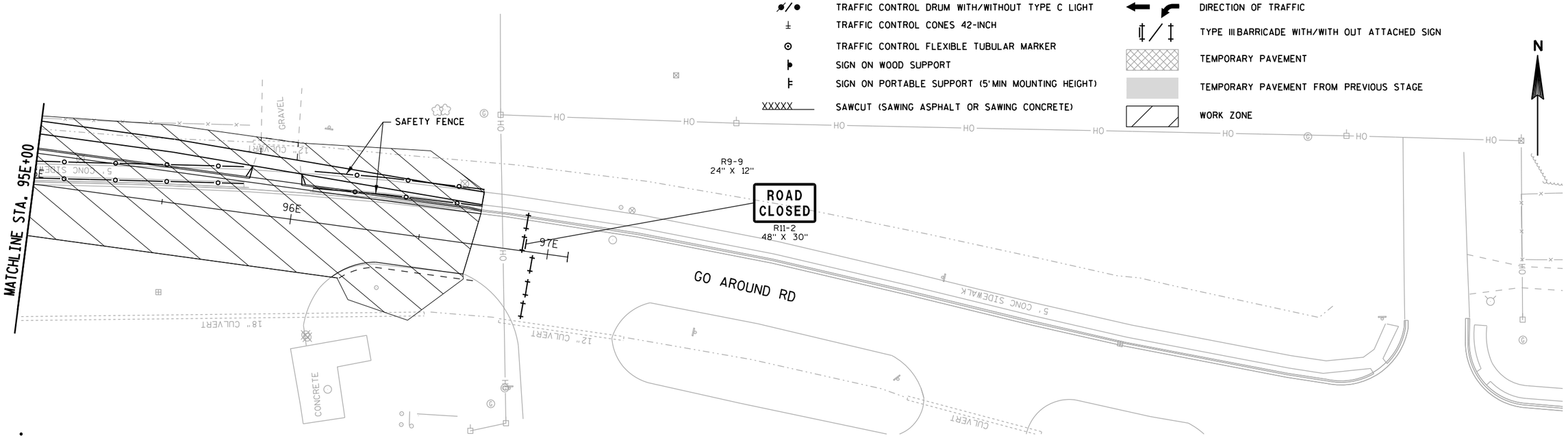


LEGEND: TEMPORARY PAVEMENT MARKING

RMPM	REMOVE PAVEMENT MARKINGS (DESCRIPTION)
4W	4-INCH (WHITE)
4Y	4-INCH (YELLOW)
4DY	4-INCH (DOUBLE YELLOW)
RT-4W	REMOVABLE TAPE 4-INCH (WHITE)
RT-4Y	REMOVABLE TAPE 4-INCH (YELLOW)

LEGEND

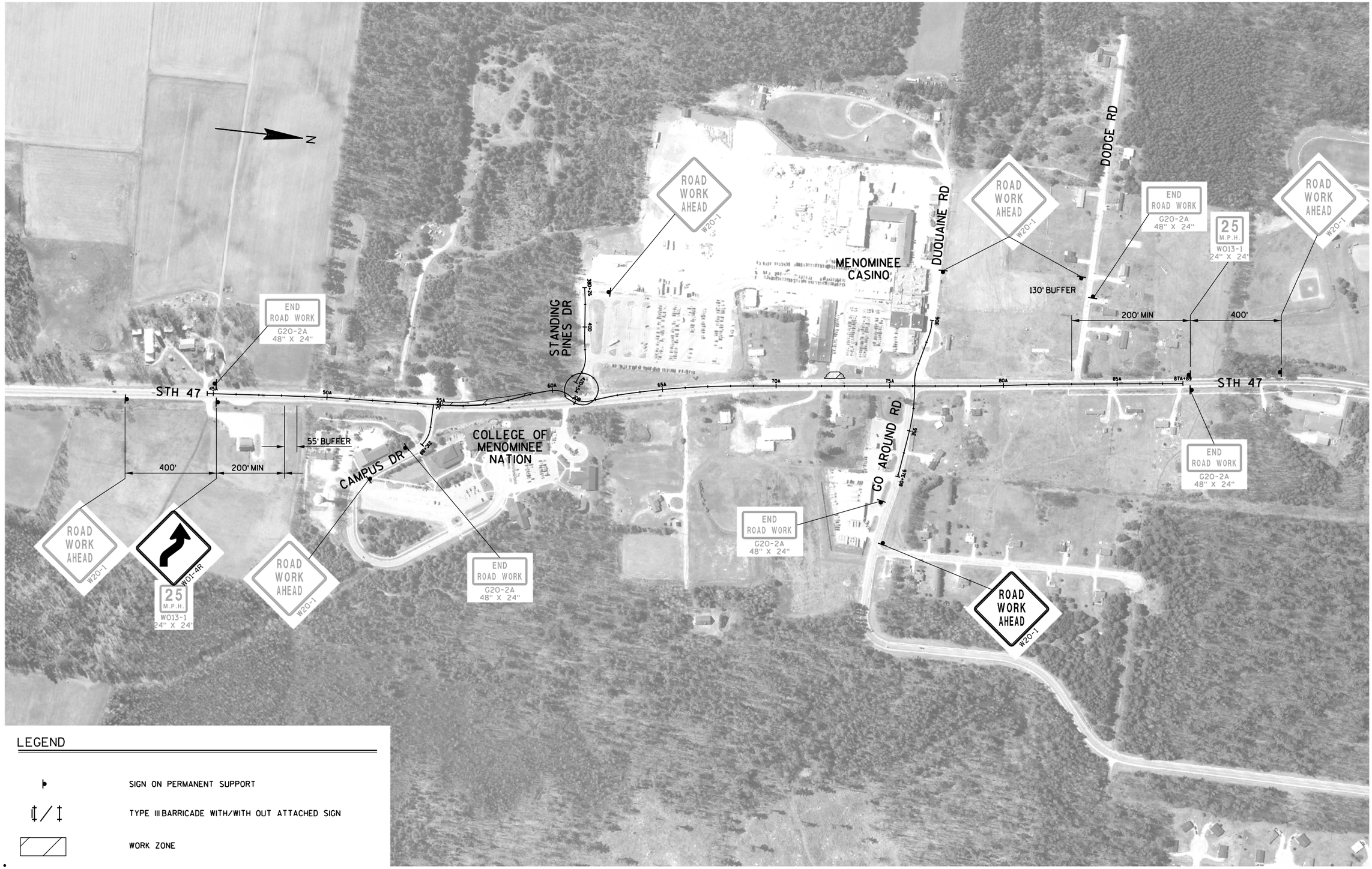
⌀/●	TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
±	TRAFFIC CONTROL CONES 42-INCH
⊙	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER
▶	SIGN ON WOOD SUPPORT
⊧	SIGN ON PORTABLE SUPPORT (5'MIN MOUNTING HEIGHT)
XXXXX	SAWCUT (SAWING ASPHALT OR SAWING CONCRETE)
←	DIRECTION OF TRAFFIC
	TYPE III BARRICADE WITH/WITH OUT ATTACHED SIGN
	TEMPORARY PAVEMENT
	TEMPORARY PAVEMENT FROM PREVIOUS STAGE
	WORK ZONE



PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL/CONSTRUCTION STAGE 2A - GO AROUND RD	SHEET 118 E

FILE NAME: L:\Work\Projects\60158808\000.CAD\001_Drawings\Sheets\026209_s2A.dgn
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PLOT TIME: 7:34:57 AM
PLOT SCALE: 1:40

2



LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE WITH/WITH OUT ATTACHED SIGN
- WORK ZONE

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL/CONSTRUCTION STAGE 2B - ADVANCE SIGNING	SHEET 119	E

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WISDOT/CADDS SHEET 42

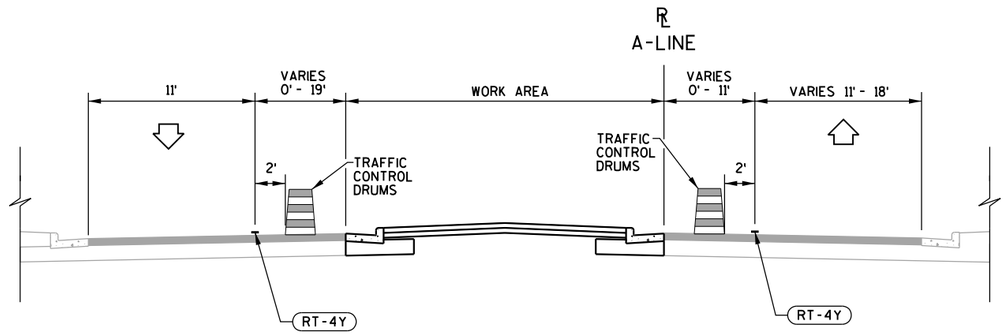
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STAGE 2B TRAFFIC

MAINTAIN TRAFFIC ON A MINIMUM 11-FOOT WIDE LANE IN EACH DIRECTION
SB STH 47 TRAFFIC WILL UTILIZE NEW SOUTHBOUND PAVEMENT
NB STH 47 TRAFFIC WILL UTILIZE NEW NORTHBOUND PAVEMENT
SB AND NB TRAFFIC WILL BE SHIFTED THROUGH WORK ZONE AREAS
MAINTAIN ACCESS TO CASINO THROUGH STANDING PINES DRIVE AND DUQUAINE ROAD.
MAINTAIN ACCESS TO GO AROUND ROAD AND CAMPUS DRIVE
MAINTAIN LEFT TURN ACCESS FROM STH 47 SOUTHBOUND ONTO CAMPUS DRIVE.
PROHIBIT LEFT TURN ACCESS FROM CAMPUS DRIVE ONTO STH 47 SOUTHBOUND
MAIN CASINO ENTRANCE AT 72A+50 LT WILL BE CLOSED
PEDESTRIANS WILL UTILIZE NEW PERMANENT SIDEWALK ON WEST SIDE AND EAST SIDES OF ROADWAY

STAGE 2B CONSTRUCTION

CONSTRUCT NORTH MEDIAN ISLAND ON STH 47 AT CAMPUS DRIVE
REMOVE CASINO ENTRANCE AT 72A+50 LT



TYPICAL PROPOSED STAGE 2B TRAFFIC CONTROL SECTION - STH 47

STA 55A+07.5 - STA 59A+11.9

LEGEND: TEMPORARY PAVEMENT MARKING

(RT-4W) REMOVABLE TAPE 4-INCH (WHITE)

(RT-4Y) REMOVABLE TAPE 4-INCH (YELLOW)

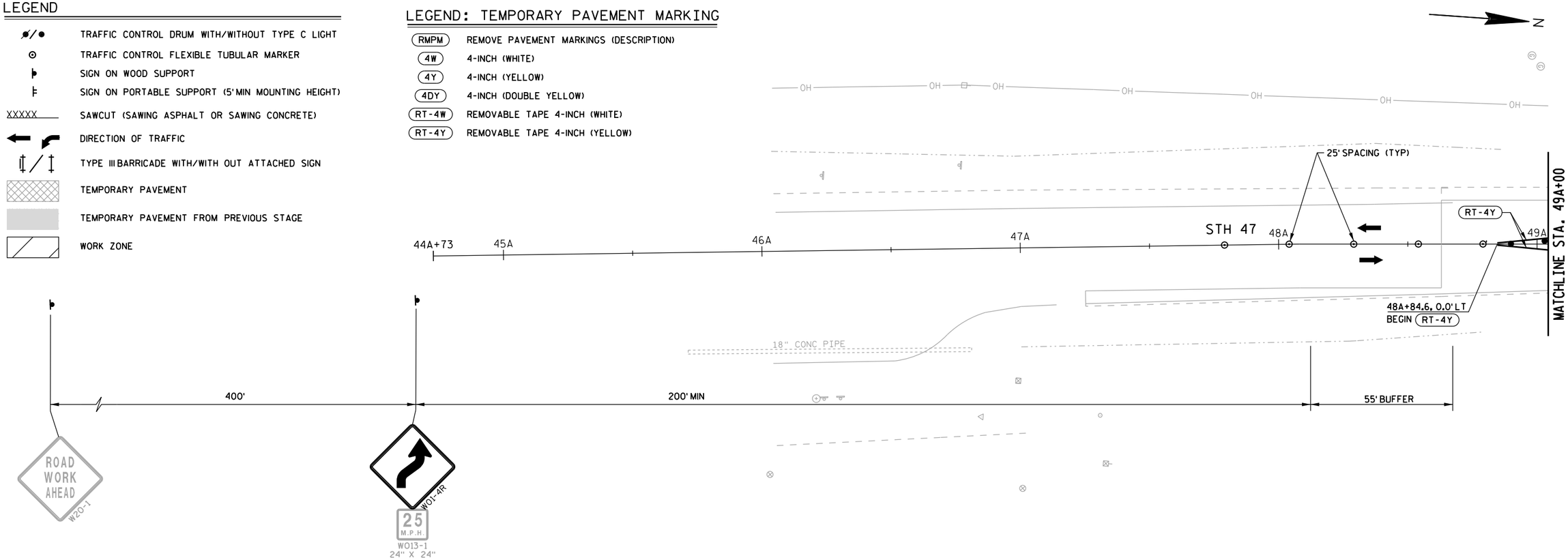
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PLOT TIME: 7:41:09 AM
PLOT SCALE: 1:10
WISDOT/CADDS SHEET 42

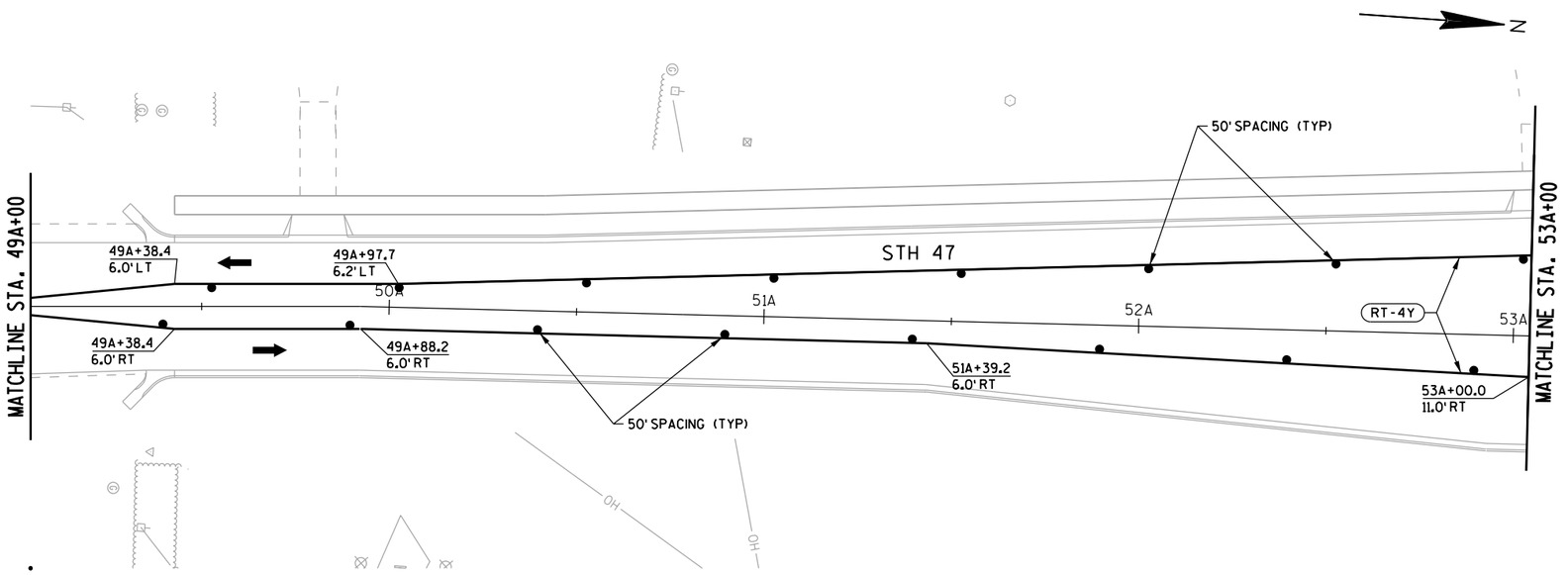
LEGEND

- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER
- SIGN ON WOOD SUPPORT
- SIGN ON PORTABLE SUPPORT (5' MIN MOUNTING HEIGHT)
- XXXXX — SAWCUT (SAWING ASPHALT OR SAWING CONCRETE)
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WITH/WITH OUT ATTACHED SIGN
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT FROM PREVIOUS STAGE
- WORK ZONE

LEGEND: TEMPORARY PAVEMENT MARKING

RMPM	REMOVE PAVEMENT MARKINGS (DESCRIPTION)
4W	4-INCH (WHITE)
4Y	4-INCH (YELLOW)
4DY	4-INCH (DOUBLE YELLOW)
RT-4W	REMOVABLE TAPE 4-INCH (WHITE)
RT-4Y	REMOVABLE TAPE 4-INCH (YELLOW)

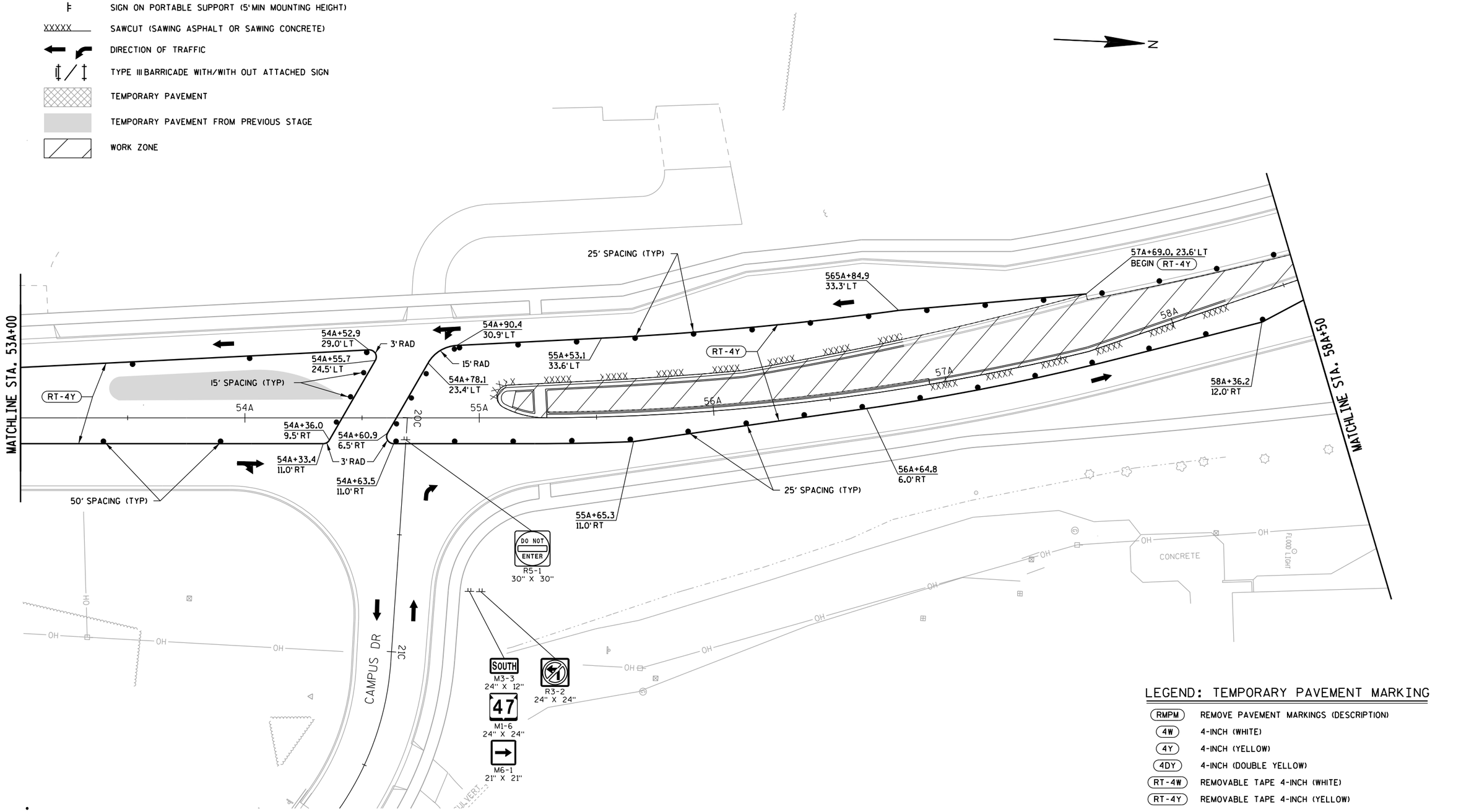




PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL/CONSTRUCTION STAGE 2B - STH 47	SHEET 121	E

LEGEND

- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER
- SIGN ON WOOD SUPPORT
- SIGN ON PORTABLE SUPPORT (5' MIN MOUNTING HEIGHT)
- XXXXX SAWCUT (SAWING ASPHALT OR SAWING CONCRETE)
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WITH/WITH OUT ATTACHED SIGN
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT FROM PREVIOUS STAGE
- WORK ZONE



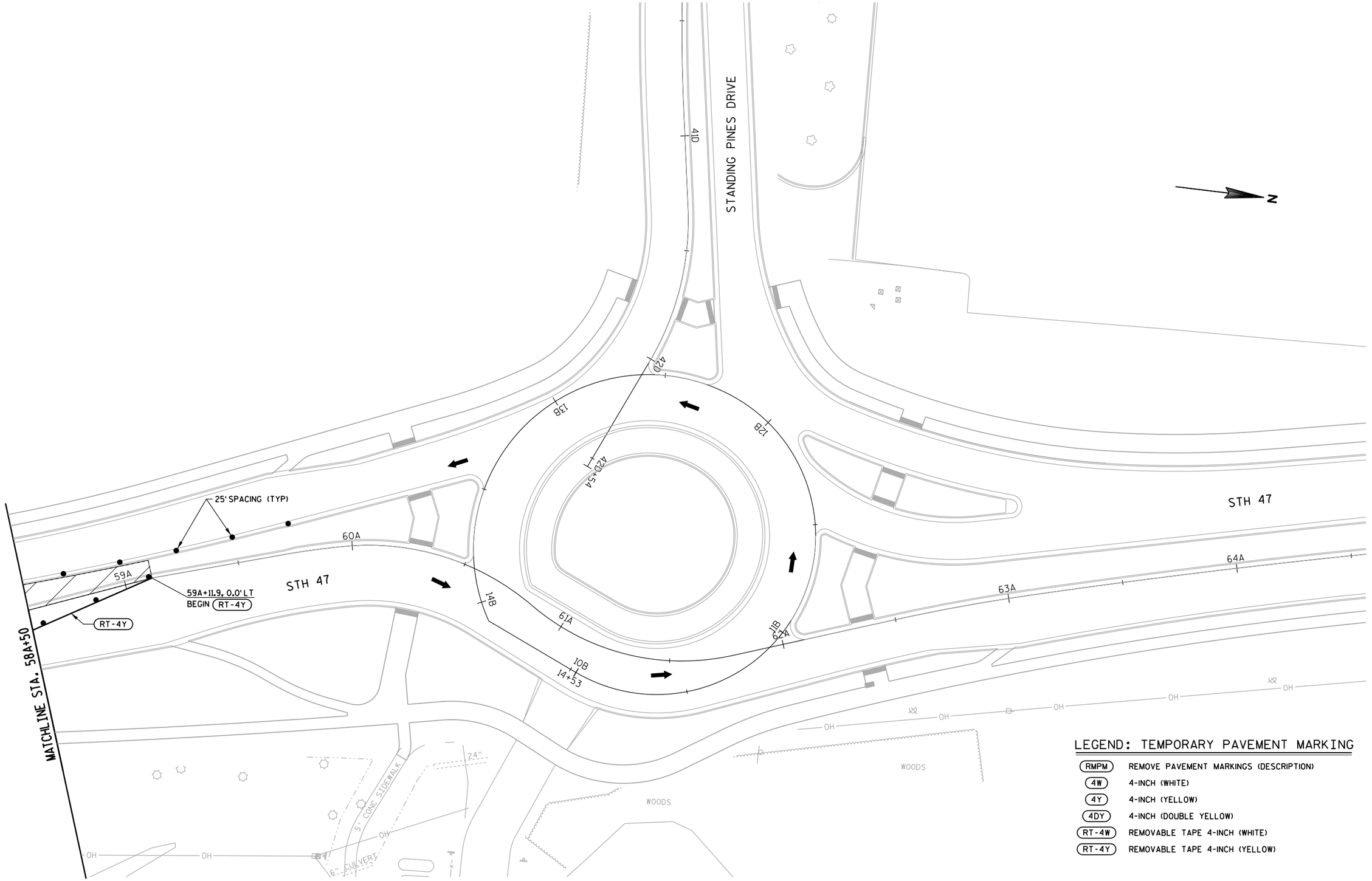
LEGEND: TEMPORARY PAVEMENT MARKING

RMPM	REMOVE PAVEMENT MARKINGS (DESCRIPTION)
4W	4-INCH (WHITE)
4Y	4-INCH (YELLOW)
4DY	4-INCH (DOUBLE YELLOW)
RT-4W	REMOVABLE TAPE 4-INCH (WHITE)
RT-4Y	REMOVABLE TAPE 4-INCH (YELLOW)

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL/CONSTRUCTION STAGE 2B - STH 47	SHEET 122	E

FILE NAME: L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\026213_s2B.dgn
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PLOT DATE: 10/17/2017
PLOT TIME: 7:41:15 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2



LEGEND: TEMPORARY PAVEMENT MARKING

RMPM	REMOVE PAVEMENT MARKINGS (DESCRIPTION)
4W	4-INCH (WHITE)
4Y	4-INCH (YELLOW)
4DY	4-INCH (DOUBLE YELLOW)
RT-4W	REMOVABLE TAPE 4-INCH (WHITE)
RT-4Y	REMOVABLE TAPE 4-INCH (YELLOW)

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL/CONSTRUCTION STAGE 2B - STH 47	SHEET 123	E

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WISDOT/CADDS SHEET 42

2

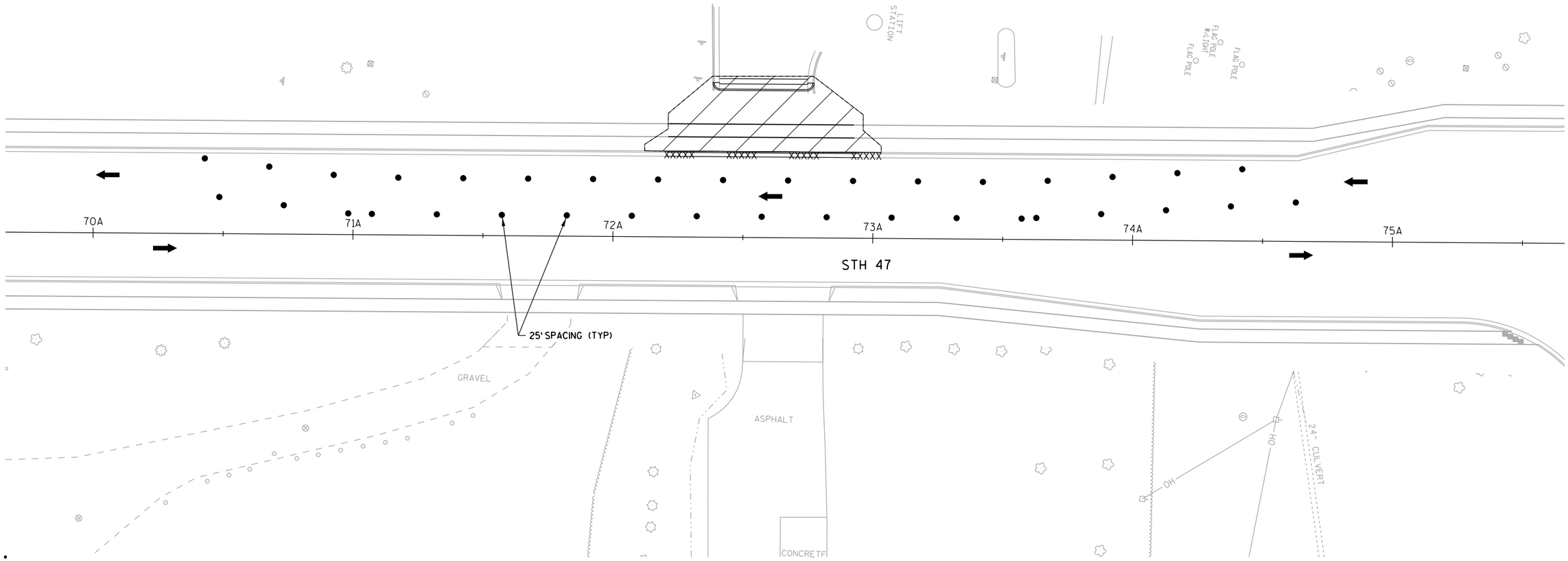
LEGEND: TEMPORARY PAVEMENT MARKING

RMPM	REMOVE PAVEMENT MARKINGS (DESCRIPTION)
4W	4-INCH (WHITE)
4Y	4-INCH (YELLOW)
4DY	4-INCH (DOUBLE YELLOW)

LEGEND

⌀/●	TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
⊙	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER
⊢	SIGN ON WOOD SUPPORT
⊢	SIGN ON PORTABLE SUPPORT (5'MIN MOUNTING HEIGHT)
XXXXX	SAWCUT (SAWING ASPHALT OR SAWING CONCRETE)
← ↰	DIRECTION OF TRAFFIC
‖ / ‖	TYPE III BARRICADE WITH/WITH OUT ATTACHED SIGN
	TEMPORARY PAVEMENT
	TEMPORARY PAVEMENT FROM PREVIOUS STAGE
	WORK ZONE

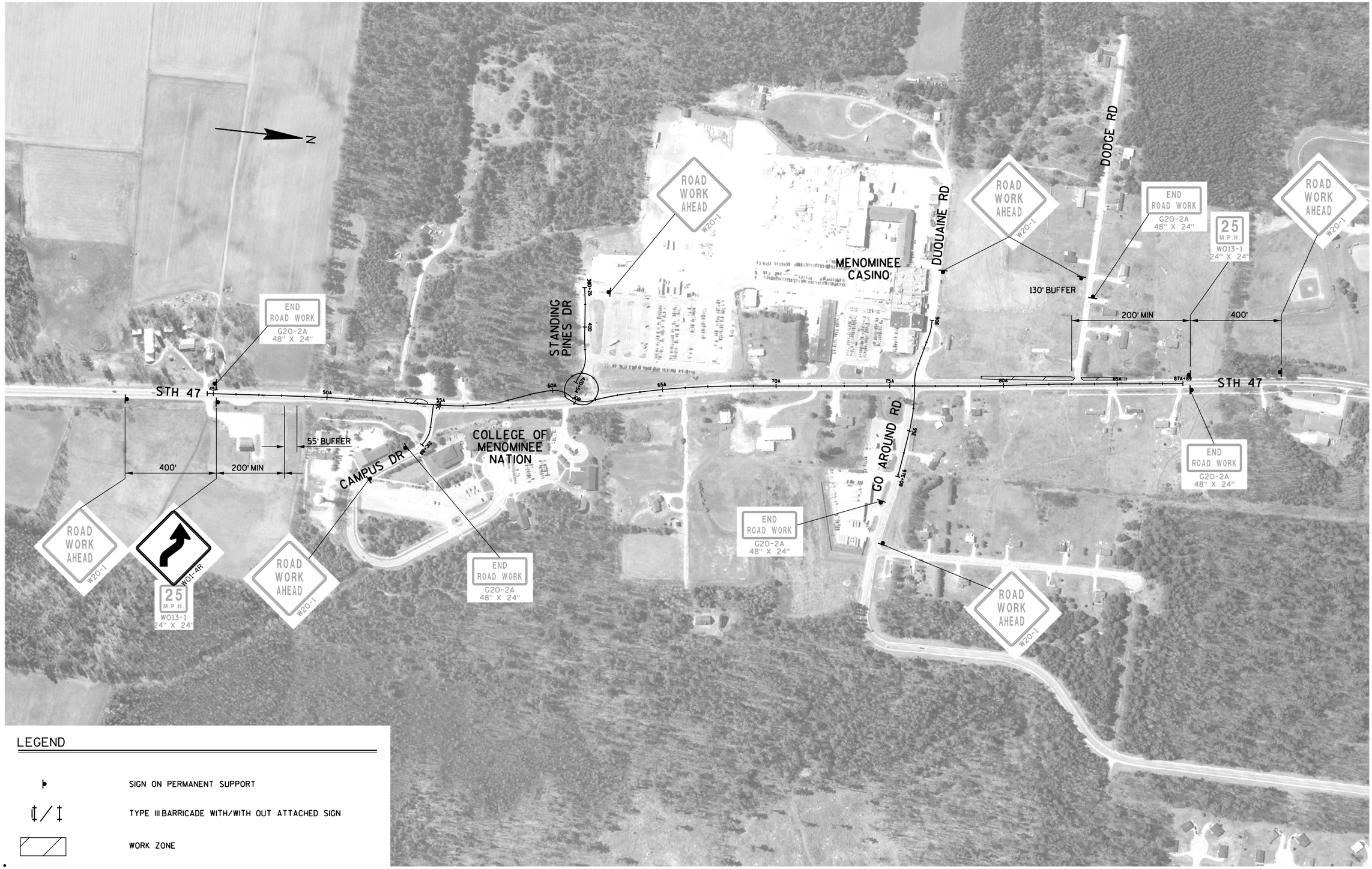
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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL/CONSTRUCTION STAGE 2B - STH 47	SHEET 124 E

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PLOT TIME: 7:41:22 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2



LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE WITH/WITH OUT ATTACHED SIGN
- WORK ZONE

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL/CONSTRUCTION STAGE 2C - ADVANCE SIGNING	SHEET 125	E

FILE NAME: L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\026220_s2C_po.dgn
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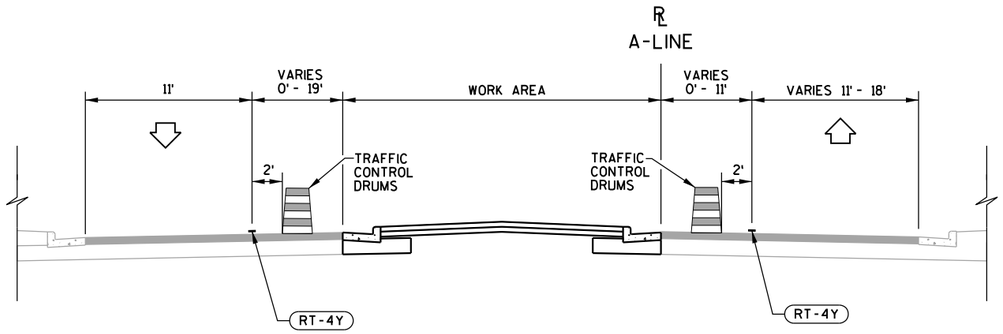
2

STAGE 2C TRAFFIC

MAINTAIN TRAFFIC ON A MINIMUM 11-FOOT WIDE LANE IN EACH DIRECTION
SB STH 47 TRAFFIC WILL UTILIZE NEW SOUTHBOUND PAVEMENT
NB STH 47 TRAFFIC WILL UTILIZE NEW NORTHBOUND PAVEMENT
SB AND NB TRAFFIC WILL BE SHIFTED THROUGH WORK ZONE AREAS
MAINTAIN ACCESS TO CASINO THROUGH STANDING PINES DRIVE AND DUQUAINE ROAD.
MAINTAIN ACCESS TO GO AROUND ROAD AND CAMPUS DRIVE
MAINTAIN LEFT TURN ACCESS FROM STH 47 SOUTHBOUND ONTO CAMPUS DRIVE.
PROHIBIT LEFT TURN ACCESS FROM CAMPUS DRIVE ONTO STH 47 SOUTHBOUND
PEDESTRIANS WILL UTILIZE NEW PERMANENT SIDEWALK ON WEST SIDE AND EAST SIDES OF ROADWAY

STAGE 2C CONSTRUCTION

CONSTRUCT SOUTH MEDIAN ISLAND ON STH 47 AT CAMPUS DRIVE
CONSTRUCT REMAINING STH 47 LT FROM 79A+00 TO 85A+50 LT



TYPICAL PROPOSED STAGE 2C TRAFFIC CONTROL SECTION - STH 47

STA 53A+41.5 - STA 54A+42.6

LEGEND: TEMPORARY PAVEMENT MARKING

(RT-4W) REMOVABLE TAPE 4-INCH (WHITE)

(RT-4Y) REMOVABLE TAPE 4-INCH (YELLOW)

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL/CONSTRUCTION STAGE 2C - TYPICAL SECTIONS	SHEET 126	E

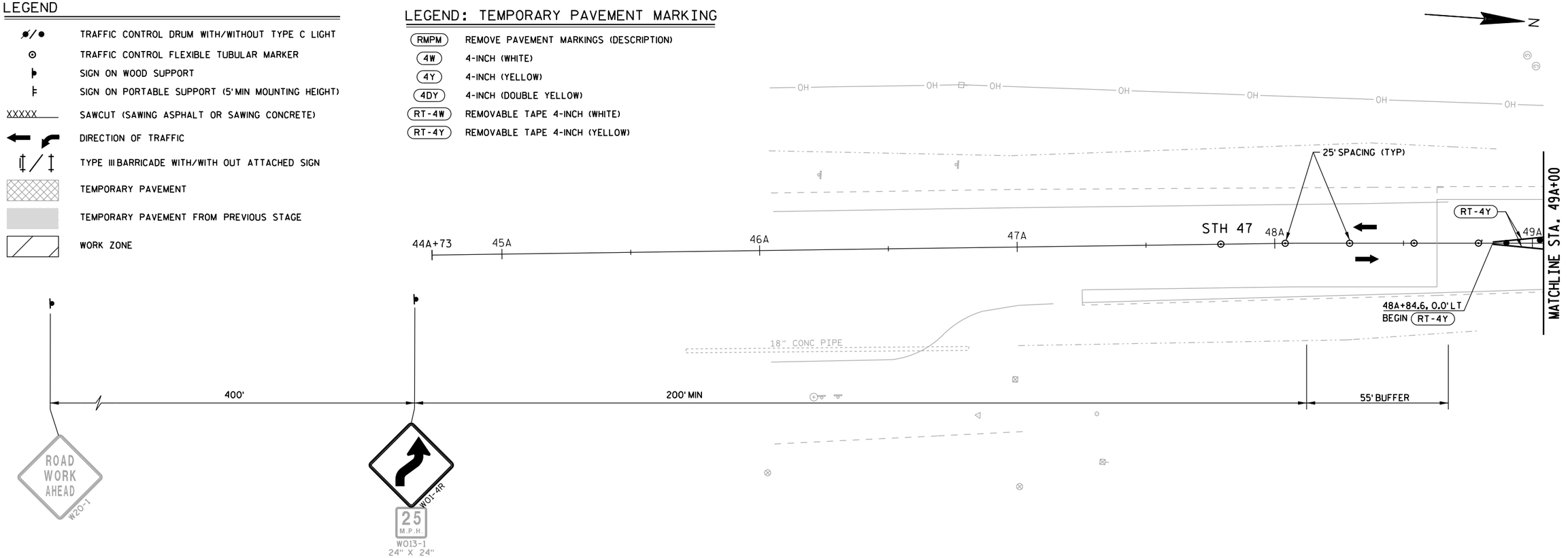
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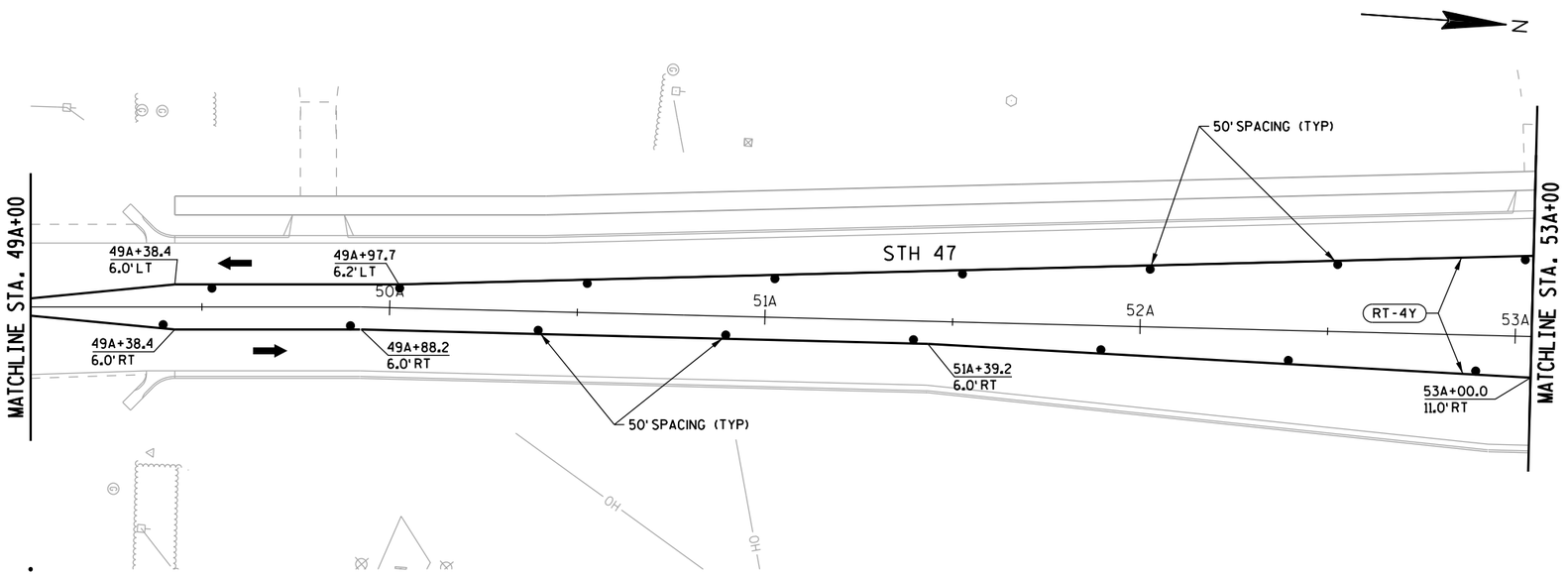
LEGEND

- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER
- SIGN ON WOOD SUPPORT
- SIGN ON PORTABLE SUPPORT (5' MIN MOUNTING HEIGHT)
- XXXXX — SAWCUT (SAWING ASPHALT OR SAWING CONCRETE)
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WITH/WITH OUT ATTACHED SIGN
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT FROM PREVIOUS STAGE
- WORK ZONE

LEGEND: TEMPORARY PAVEMENT MARKING

RMPM	REMOVE PAVEMENT MARKINGS (DESCRIPTION)
4W	4-INCH (WHITE)
4Y	4-INCH (YELLOW)
4DY	4-INCH (DOUBLE YELLOW)
RT-4W	REMOVABLE TAPE 4-INCH (WHITE)
RT-4Y	REMOVABLE TAPE 4-INCH (YELLOW)





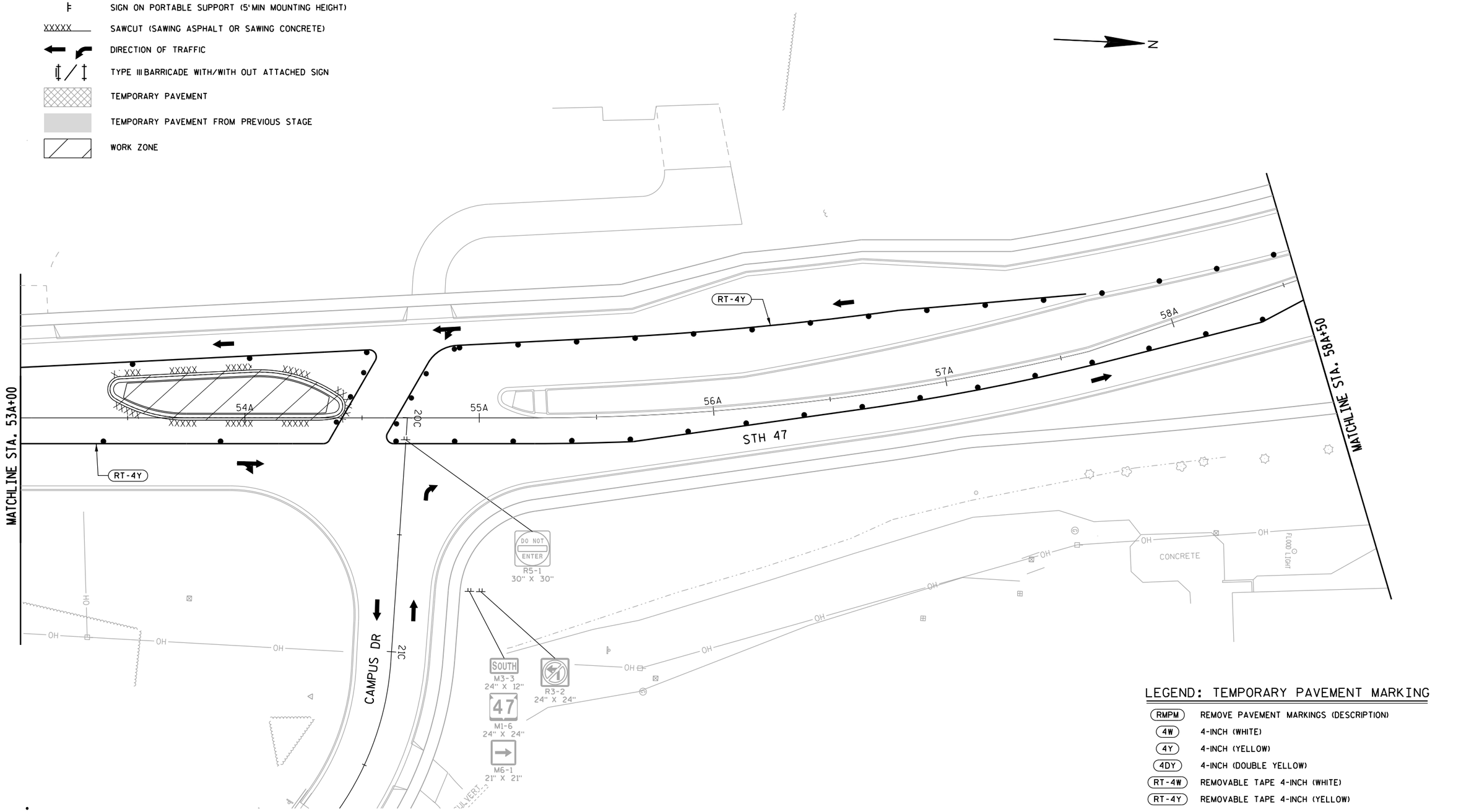
PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL/CONSTRUCTION STAGE 2C - STH 47	SHEET 127	E

2

2

LEGEND

- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER
- SIGN ON WOOD SUPPORT
- SIGN ON PORTABLE SUPPORT (5' MIN MOUNTING HEIGHT)
- XXXXX SAWCUT (SAWING ASPHALT OR SAWING CONCRETE)
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WITH/WITH OUT ATTACHED SIGN
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT FROM PREVIOUS STAGE
- WORK ZONE



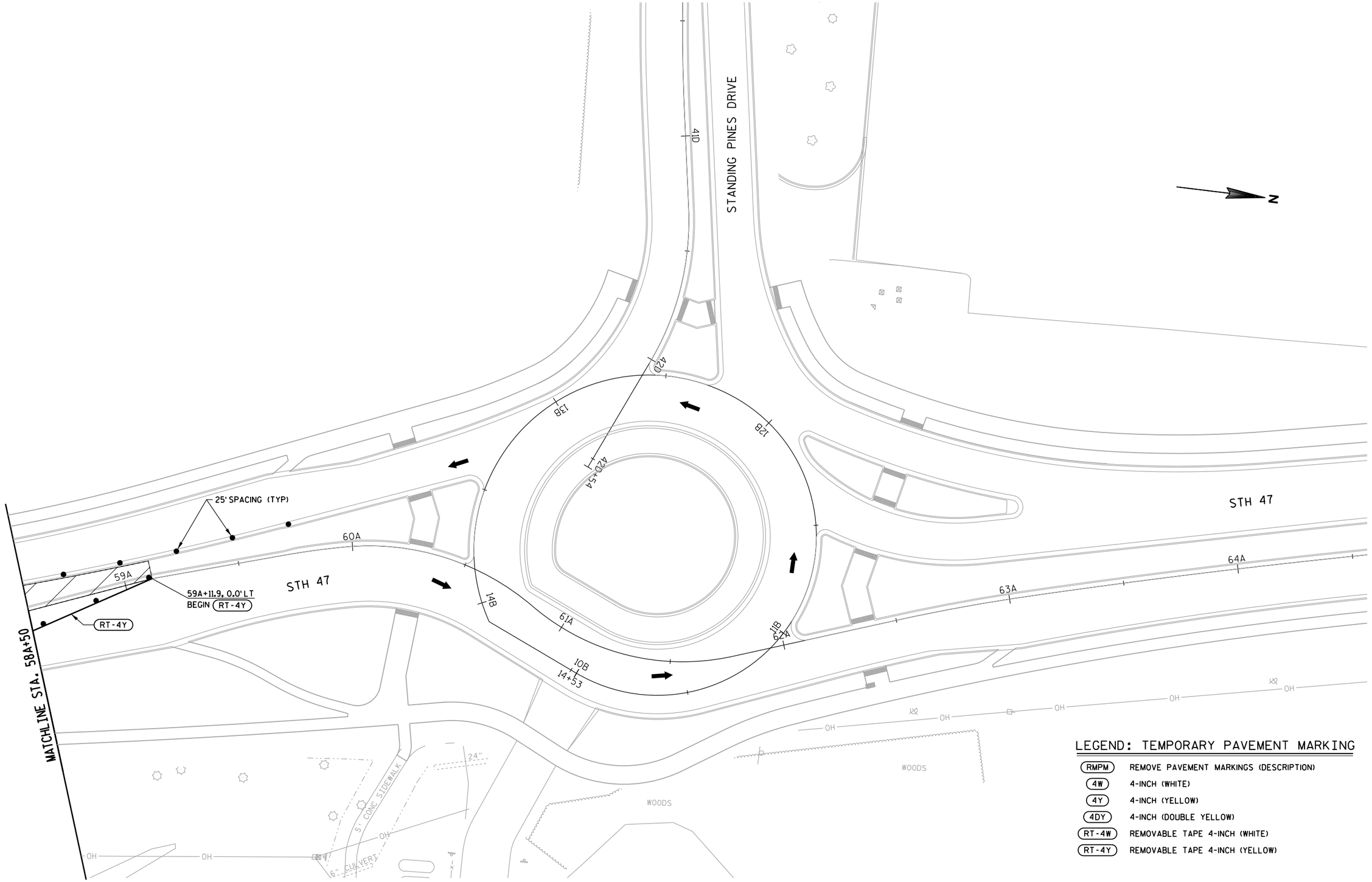
LEGEND: TEMPORARY PAVEMENT MARKING

- RMPM — REMOVE PAVEMENT MARKINGS (DESCRIPTION)
- 4W — 4-INCH (WHITE)
- 4Y — 4-INCH (YELLOW)
- 4DY — 4-INCH (DOUBLE YELLOW)
- RT-4W — REMOVABLE TAPE 4-INCH (WHITE)
- RT-4Y — REMOVABLE TAPE 4-INCH (YELLOW)

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL/CONSTRUCTION STAGE 2C - STH 47	SHEET 128	E

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WISDOT/CADDS SHEET 42

2



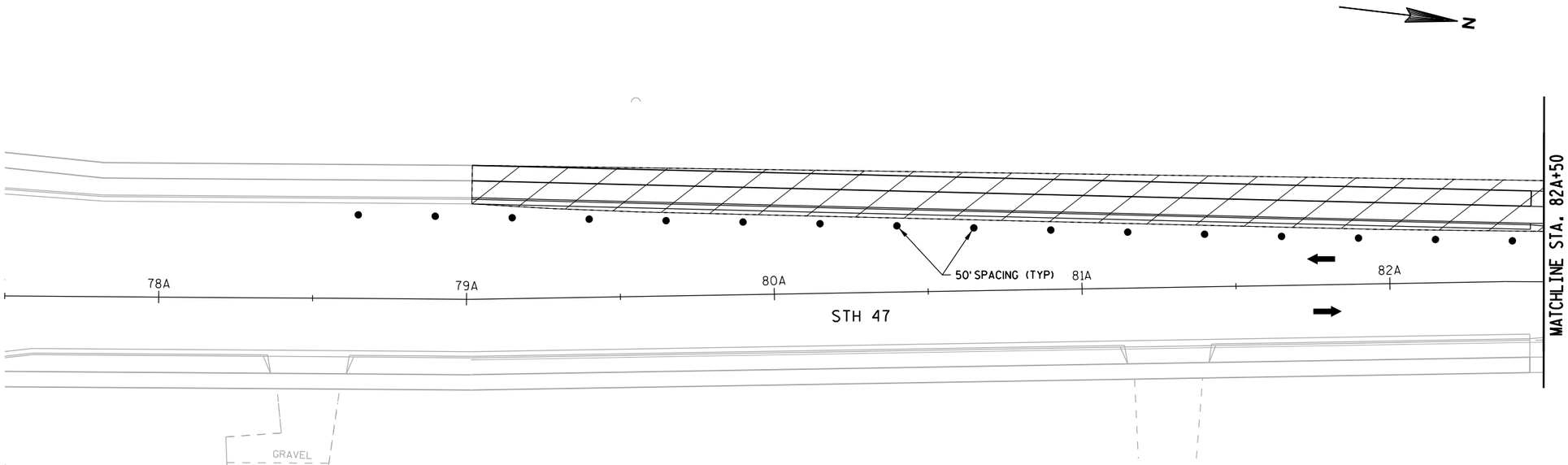
LEGEND: TEMPORARY PAVEMENT MARKING

RMPM	REMOVE PAVEMENT MARKINGS (DESCRIPTION)
4W	4-INCH (WHITE)
4Y	4-INCH (YELLOW)
4DY	4-INCH (DOUBLE YELLOW)
RT-4W	REMOVABLE TAPE 4-INCH (WHITE)
RT-4Y	REMOVABLE TAPE 4-INCH (YELLOW)

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL/CONSTRUCTION STAGE 2C - STH 47	SHEET 129	E

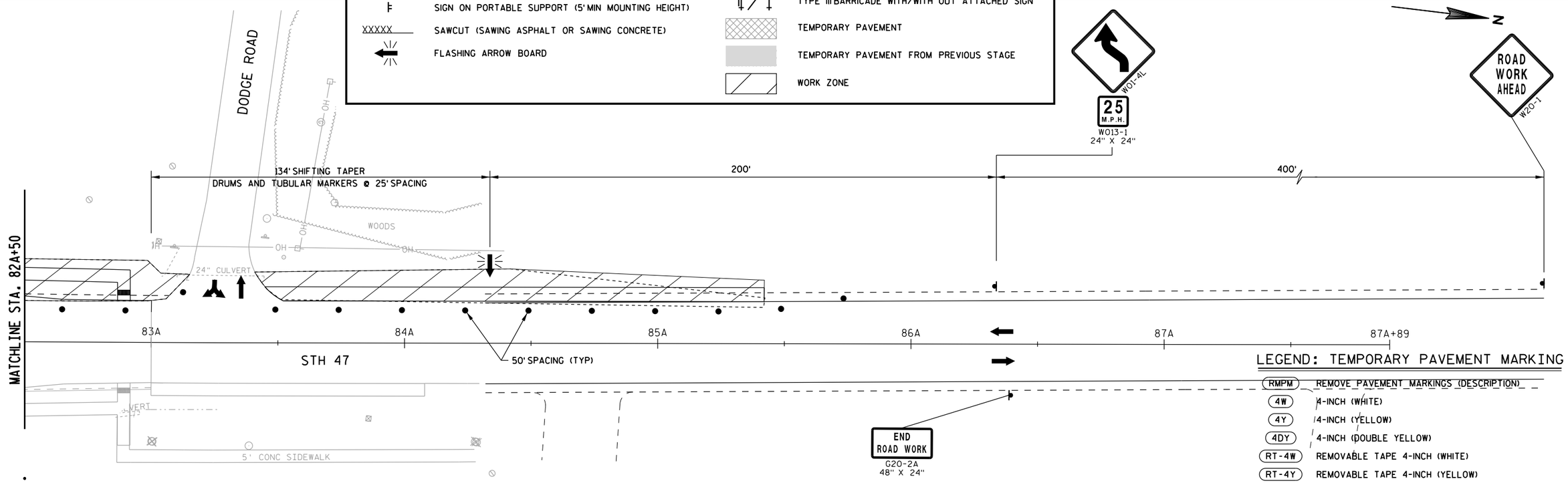
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PLOT DATE: 10/17/2017
PLOT TIME: 7:42:43 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2



LEGEND

TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT	DIRECTION OF TRAFFIC
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER	CONCRETE BARRIER TEMPORARY PRECAST
SIGN ON WOOD SUPPORT	TYPE III BARRICADE WITH/WITH OUT ATTACHED SIGN
SIGN ON PORTABLE SUPPORT (5' MIN MOUNTING HEIGHT)	TEMPORARY PAVEMENT
SAWCUT (SAWING ASPHALT OR SAWING CONCRETE)	TEMPORARY PAVEMENT FROM PREVIOUS STAGE
FLASHING ARROW BOARD	WORK ZONE



LEGEND: TEMPORARY PAVEMENT MARKING

RMPM	REMOVE PAVEMENT MARKINGS (DESCRIPTION)
4W	4-INCH (WHITE)
4Y	4-INCH (YELLOW)
4DY	4-INCH (DOUBLE YELLOW)
RT-4W	REMOVABLE TAPE 4-INCH (WHITE)
RT-4Y	REMOVABLE TAPE 4-INCH (YELLOW)

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	TRAFFIC CONTROL/CONSTRUCTION STAGE 2C - STH 47	SHEET 130 E

FILE NAME: L:\Work\Projects\60158808\000.CAD\001.Drawings\Sheets\026225_s2C.dgn
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PLOT DATE: 10/17/2017
PLOT TIME: 7:42:46 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

CAMPUS DRIVE

PI STA 20C+00.00
Y=51531.112
X=291380.482

PC STA 21C+04.25
Y=51528.887
X=291484.706

PI STA 21C+39.85
Y=51528.127
X=291520.304
T=35.61'
L=69.37'
D=45°50'12"
DELTA=31°47'54"
R=125.00'

PT STA 21C+73.62
Y=51508.724
X=291550.158

PI STA 21C+88.04
Y=51500.864
X=291562.251

STANDING PINES DRIVE

PI STA 38D+26.37
Y=52133.316
X=290793.610

PC STA 38D+56.94
Y=52138.303
X=290823.770

PI STA 38D+84.21
Y=52142.752
X=290850.673
T=27.27'
L=54.52'
D=7°09'43"
DELTA=3°54'16"
R=800.00'

PT STA 39D+11.45
Y=52145.359
X=290877.818

PC STA 40D+33.14
Y=52156.990
X=290998.950

PI STA 40D+60.41
Y=52159.596
X=291026.095
T=27.27'
L=54.52'
D=7°09'43"
DELTA=3°54'16"
R=800.00'

PT STA 40D+87.66
Y=52164.045
X=291052.998

PC STA 41D+31.61
Y=52171.215
X=291096.360

PI STA 41D+67.24
Y=52177.028
X=291131.515
T=35.63'
L=69.27'
D=47°44'47"
DELTA=33°04'34"
R=120.00'

PT STA 42D.89
Y=52162.713
X=291164.146

PI STA 42D+54.17
Y=52141.307
X=291212.941

STH 47

PI STA 44A+72.87
Y=50536.858
X=291444.563

PI STA 48A+08.15
Y=50870.908
X=291415.908

PI STA 49A+92.33
Y=51054.614
X=291402.700

PI STA 53A+75.08
Y=51436.951
X=291384.873

PC STA 55A+23.64
Y=51585.353
X=291377.953

PI STA 56A+43.45
Y=51705.028
X=291372.373
T=119.81'
L=238.47'
D=5°43'46"
DELTA=13°39'49"
R=1000.00'

PT STA 57A+62.12
Y=51819.999
X=291338.681

PI STA 59A+11.87
Y=51959.315
X=291283.741

PC STA 59A+70.41
Y=52015.307
X=291266.678
T=13.34'
L=26.66'
D=17°41'02"
DELTA=4°42'52"
R=324.00'

PCC STA 59A+97.07
Y=52041.099
X=291259.964

PI STA 60A+39.09
Y=52081.003
X=291246.658
T=46.22'
L=87.42'
D=52°33'54"
DELTA=45°57'16"
R=109.00'

PRC STA 60A+84.49
Y=52124.707
X=291275.828

PI STA 61A+34.36
Y=52166.183
X=291303.511
T=49.87'
L=92.51'
D=57°17'45"
DELTA=53°00'25"
R=100.00'

PT STA 61A+77.01
Y=52213.250
X=291287.041

PC STA 62A+50.64
Y=52282.747
X=291262.722
T=29.57'
L=59.11'
D=7°09'43"
DELTA=4°14'00"
R=800.00'

PCC STA 63A+09.75
Y=52339.210
X=291245.277

PI STA 64A+75.65
Y=52495.137
X=291188.401
T=261.08'
L=521.18'
D=1°38'40"
DELTA=8°34'16"
R=3484.00'

PT STA 68A+30.93
Y=52850.737
X=291148.001

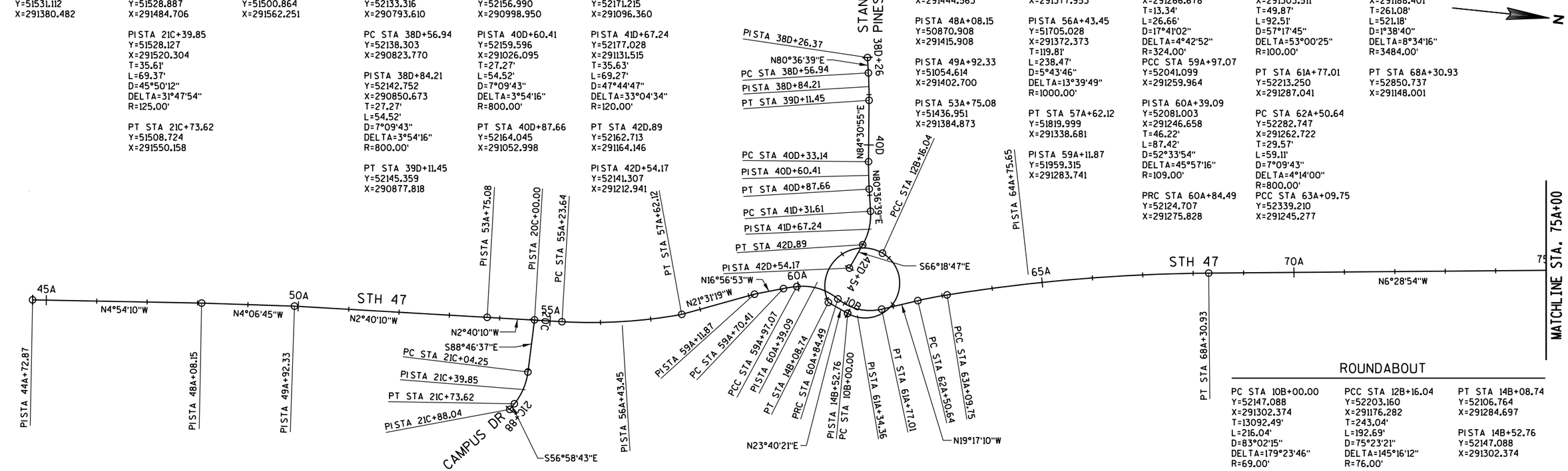
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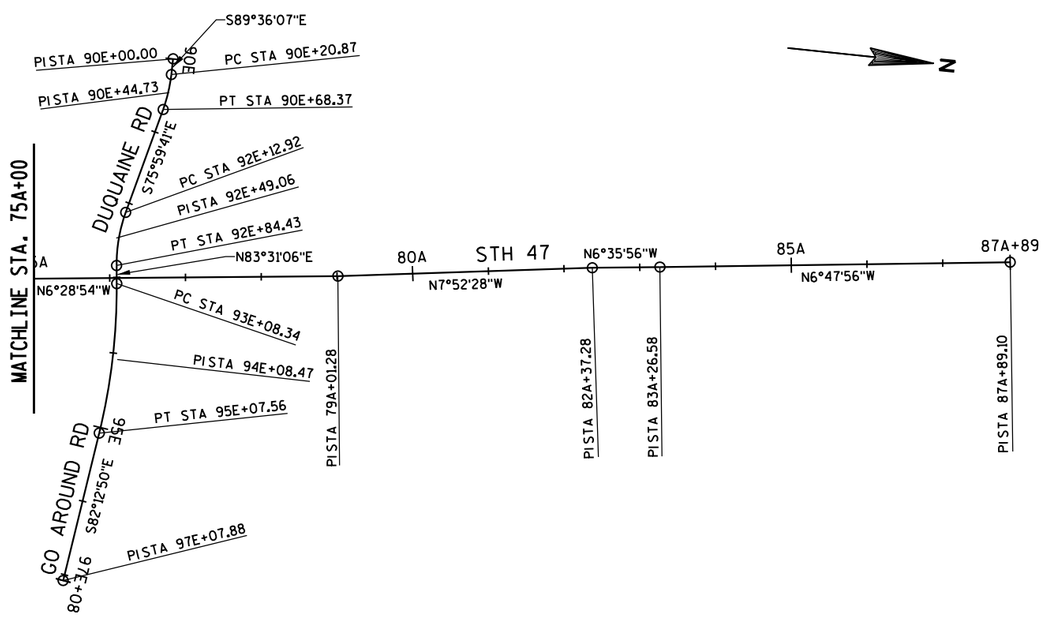
PC STA 10B+00.00
Y=52147.088
X=291302.374
T=13092.49'
L=216.04'
D=83°02'15"
DELTA=179°23'46"
R=69.00'

PCC STA 12B+16.04
Y=52203.160
X=291176.282
T=243.04'
L=192.69'
D=75°23'21"
DELTA=145°16'12"
R=76.00'

PT STA 14B+08.74
Y=52106.764
X=291284.697

PI STA 14B+52.76
Y=52147.088
X=291302.374





STH 47

PI STA 79A+01.28
Y=53914.254
X=291027.172

PI STA 82A+37.28
Y=54247.077
X=290981.139

PI STA 83A+26.58
Y=54335.794
X=290970.876

PI STA 87A+89.10
Y=54795.062
X=290916.121

DUQUAINE RD

PI STA 90E+00.00
Y=53668.047
X=290764.751

PC STA 90E+20.87
Y=53667.902
X=290785.620

PI STA 90E+44.73
Y=53667.736
X=290809.481
T=23.86'
L=47.50'
D=28°38'52"
DELTA=13°36'26"
R=200.00'

PT STA 90E+68.37
Y=53661.961
X=290832.633

PC STA 92E+12.92
Y=53626.979
X=290972.886

PI STA 92E+49.06
Y=53618.232
X=291007.954
T=36.14'
L=71.51'
D=28°38'52"
DELTA=20°29'13"
R=200.00'

PT STA 92E+84.43
Y=53622.312
X=291043.866

GO AROUND RD

PC STA 93E+08.34
Y=53625.011
X=291067.622

PI STA 94E+08.47
Y=53636.314
X=291167.109
T=100.13'
L=199.22'
D=7°09'43"
DELTA=14°16'05"
R=800.00'

PT STA 95E+07.56
Y=53622.749
X=291266.313

PI STA 97E+07.88
Y=53595.609
X=291464.792

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	ALIGNMENT DIAGRAM	SHEET 131	E

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WISDOT/CADDS SHEET 42

STAGE 1 CONSTRUCTION ALIGNMENT (TSA)

PISTA 0TSA+00.00
Y=50708.225
X=291429.863

PISTA 1TSA+73.74
Y=50881.769
X=291438.187

PISTA 3TSA+59.06
Y=51066.605
X=291424.897

PC STA 5TSA+07.92
Y=51215.304
X=291417.978

PISTA 5TSA+37.55
Y=51244.905
X=291416.600
T=29.63'
L=59.08'
D=19°05'55"
DELTA=11°16'57"
R=300.00'

PT STA 5TSA+66.99
Y=51274.204
X=291421.041

PC STA 6TSA+12.25
Y=51318.956
X=291427.823

PISTA 6TSA+42.61
Y=51348.973
X=291432.373
T=30.36'
L=60.51'
D=19°05'55"
DELTA=11°33'26"
R=300.00'

PT STA 6TSA+72.77
Y=51379.293
X=291430.816

PC STA 8TSA+84.38
Y=51590.630
X=291419.966

PISTA 9TSA+13.48
Y=51619.688
X=291418.475
T=29.10'
L=58.01'
D=19°05'55"
DELTA=11°04'45"
R=300.00'

PT STA 9TSA+42.39
Y=51647.917
X=291411.427

PC STA 12TSA+63.46
Y=51959.420
X=291333.655

PISTA 13TSA+15.89
Y=52010.291
X=291320.955
T=52.43'
L=103.82'
D=19°05'55"
DELTA=19°49'38"
R=300.00'

PT STA 13TSA+67.27
Y=52062.454
X=291326.262

PC STA 14TSA+09.66
Y=52104.621
X=291330.552

PISTA 14TSA+82.16
Y=52176.748
X=291337.889
T=72.50'
L=142.27'
D=19°05'55"
DELTA=27°10'18"
R=300.00'

PT STA 15TSA+51.93
Y=52244.266
X=291311.481

PC STA 16TSA+04.15
Y=52292.898
X=291292.458

PISTA 16TSA+21.79
Y=52326.389
X=291281.578
T=17.64'
L=35.23'
D=19°05'55"
DELTA=6°43'45"
R=300.00'

PT STA 16TSA+39.38
Y=52326.389
X=291281.578

PC STA 17TSA+82.05
Y=52464.430
X=291245.536

PISTA 18TSA+18.35
Y=52499.545
X=291236.367
T=36.29'
L=72.57'
D=3°49'11"
DELTA=2°46'19"
R=1500.00'

PT STA 18TSA+54.62
Y=52535.062
X=291228.907

PC STA 20TSA+79.05
Y=52754.698
X=291182.778

PISTA 22TSA+19.99
Y=52892.627
X=291153.809
T=140.94'
L=281.67'
D=1°54'35"
DELTA=5°22'46"
R=3000.00'

PT STA 23TSA+60.72
Y=53032.665
X=291137.899

DRIVEWAY

PISTA 30DW+00.00
Y=51540.139
X=291380.061

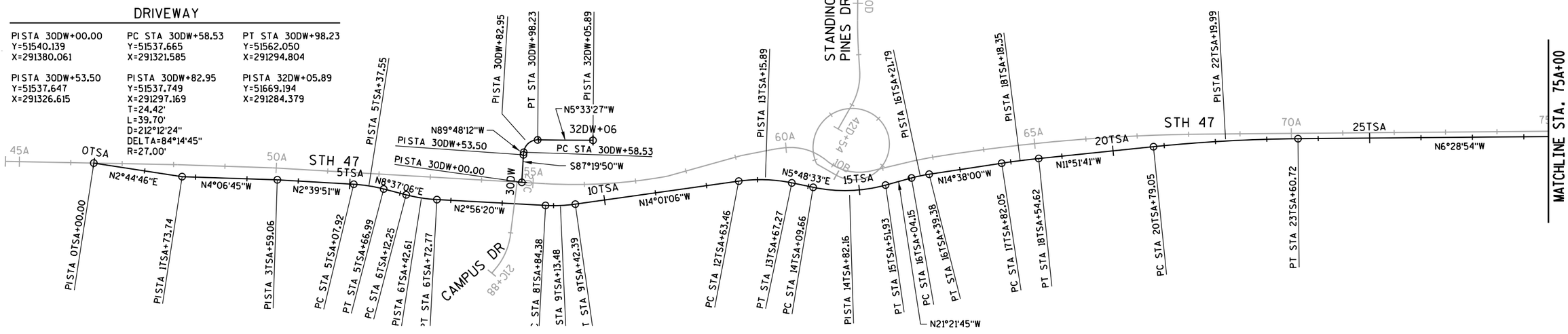
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Y=51537.647
X=291326.615

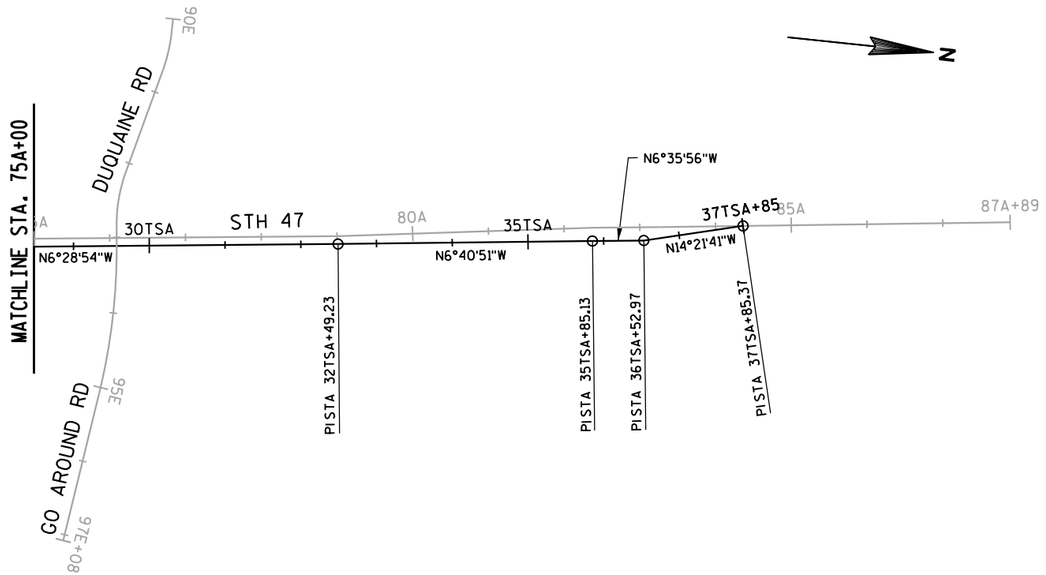
PC STA 30DW+58.53
Y=51537.665
X=291321.585

PISTA 30DW+82.95
Y=51537.749
X=291297.169
T=24.42'
L=39.70'
D=212°12'24"
DELTA=84°14'45"
R=27.00'

PT STA 30DW+98.23
Y=51562.050
X=291294.804

PISTA 32DW+05.89
Y=51669.194
X=291284.379





STAGE 1 CONSTRUCTION ALIGNMENT (TSA)

PISTA 32TSA+49.23
Y=53915.490
X=291037.599

PISTA 35TSA+85.13
Y=54249.112
X=290998.521

PISTA 36TSA+52.97
Y=54316.503
X=290990.725

PISTA 37TSA+85.37
Y=54444.767
X=290957.884

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	ALIGNMENT DIAGRAM	SHEET 132	E

					9650-17-71	9650-17-72
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0002	201.0105	Clearing	STA	20.000	20.000	
0004	201.0120	Clearing	ID	127.000	127.000	
0006	201.0205	Grubbing	STA	20.000	20.000	
0008	201.0220	Grubbing	ID	127.000	127.000	
0010	203.0100	Removing Small Pipe Culverts	EACH	13.000	13.000	
0012	204.0150	Removing Curb & Gutter	LF	5,158.000	5,158.000	
0014	204.0155	Removing Concrete Sidewalk	SY	1,805.000	1,805.000	
0016	204.0170	Removing Fence	LF	75.000	75.000	
0018	204.0210	Removing Manholes	EACH	7.000	7.000	
0020	204.0220	Removing Inlets	EACH	18.000	18.000	
0022	204.0245	Removing Storm Sewer (size) 01. 12-Inch	LF	261.000	261.000	
0024	204.0245	Removing Storm Sewer (size) 02. 15-Inch	LF	53.000	53.000	
0026	204.0245	Removing Storm Sewer (size) 03. 18-Inch	LF	126.000	126.000	
0028	204.0245	Removing Storm Sewer (size) 04. 24-Inch	LF	1,477.000	1,477.000	
0030	205.0100	Excavation Common	CY	24,423.000	24,423.000	
0032	213.0100	Finishing Roadway (project) 01. 9650-17-71	EACH	1.000	1.000	
0034	305.0110	Base Aggregate Dense 3/4-Inch	TON	2,165.000	2,165.000	
0036	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	22,500.000	22,500.000	
0038	405.0100	Coloring Concrete WisDOT Red	CY	309.000	309.000	
0040	405.0200	Coloring Concrete Custom 01. Blue	CY	9.000	9.000	
0042	416.0160	Concrete Driveway 6-Inch	SY	324.000	324.000	
0044	416.0512	Concrete Truck Apron 12-Inch	SY	334.000	334.000	
0046	440.4410	Incentive IRI Ride	DOL	2,600.000	2,600.000	
0048	455.0605	Tack Coat	GAL	1,230.000	1,230.000	
0050	460.2000	Incentive Density HMA Pavement	DOL	4,790.000	4,790.000	
0052	460.5223	HMA Pavement 3 LT 58-28 S	TON	4,080.000	4,080.000	
0054	460.5244	HMA Pavement 4 LT 58-34 S	TON	3,395.000	3,395.000	
0056	465.0105	Asphaltic Surface	TON	10.000	10.000	
0058	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	124.000	124.000	
0060	465.0125	Asphaltic Surface Temporary	TON	1,365.000	1,365.000	
0062	465.0315	Asphaltic Flumes	SY	18.000	18.000	
0064	520.1018	Apron Endwalls for Culvert Pipe 18-Inch	EACH	4.000	4.000	
0066	520.3318	Culvert Pipe Class III-A 18-Inch	LF	69.000	69.000	
0068	520.8000	Concrete Collars for Pipe	EACH	1.000	1.000	
0070	522.0112	Culvert Pipe Reinforced Concrete Class III 12-Inch	LF	24.000	24.000	
0072	522.0118	Culvert Pipe Reinforced Concrete Class III 18-Inch	LF	30.000	30.000	
0074	522.1012	Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	EACH	3.000	3.000	
0076	522.1015	Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch	EACH	1.000	1.000	

					9650-17-71	9650-17-72
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0078	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	3.000	3.000	
0080	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	2.000	2.000	
0082	601.0407	Concrete Curb & Gutter 18-Inch Type D	LF	284.000	284.000	
0084	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	2,892.000	2,892.000	
0086	601.0582	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type T	LF	314.000	314.000	
0088	601.0600	Concrete Curb Pedestrian	LF	169.000	169.000	
0090	602.0405	Concrete Sidewalk 4-Inch	SF	50,980.000	50,980.000	
0092	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	422.000	422.000	
0094	606.0200	Riprap Medium	CY	19.000	19.000	
0096	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	270.000	270.000	
0098	608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	LF	1,089.000	1,089.000	
0100	608.0418	Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	LF	163.000	163.000	
0102	608.0424	Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	LF	1,878.000	1,878.000	
0104	608.0430	Storm Sewer Pipe Reinforced Concrete Class IV 30-Inch	LF	181.000	181.000	
0106	611.0530	Manhole Covers Type J	EACH	5.000	5.000	
0108	611.0612	Inlet Covers Type C	EACH	1.000	1.000	
0110	611.0624	Inlet Covers Type H	EACH	26.000	26.000	
0112	611.0627	Inlet Covers Type HM	EACH	1.000	1.000	
0114	611.0639	Inlet Covers Type H-S	EACH	4.000	4.000	
0116	611.2004	Manholes 4-FT Diameter	EACH	4.000	4.000	
0118	611.2005	Manholes 5-FT Diameter	EACH	6.000	6.000	
0120	611.2006	Manholes 6-FT Diameter	EACH	3.000	3.000	
0122	611.3004	Inlets 4-FT Diameter	EACH	4.000	4.000	
0124	611.3230	Inlets 2x3-FT	EACH	20.000	20.000	
0126	611.8110	Adjusting Manhole Covers	EACH	6.000		6.000
0128	611.8120.S	Cover Plates Temporary	EACH	9.000	3.000	6.000
0130	612.0902.S	Insulation Board Polystyrene (inch) 01. 2-Inch	SY	700.000	700.000	
0132	618.0100	Maintenance And Repair of Haul Roads (project) 01. 9650-17-71	EACH	1.000	1.000	
0134	619.1000	Mobilization	EACH	1.000	0.980	0.020
0136	620.0300	Concrete Median Sloped Nose	SF	341.000	341.000	
0138	624.0100	Water	MGAL	239.000	239.000	
0140	625.0100	Topsoil	SY	24,950.000	24,950.000	
0142	628.1504	Silt Fence	LF	4,030.000	4,030.000	

					9650-17-71	9650-17-72
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0144	628.1520	Silt Fence Maintenance	LF	4,030.000	4,030.000	
0146	628.1905	Mobilizations Erosion Control	EACH	6.000	6.000	
0148	628.1910	Mobilizations Emergency Erosion Control	EACH	6.000	6.000	
0150	628.2006	Erosion Mat Urban Class I Type A	SY	24,950.000	24,950.000	
0152	628.7005	Inlet Protection Type A	EACH	41.000	41.000	
0154	628.7015	Inlet Protection Type C	EACH	35.000	35.000	
0156	628.7504	Temporary Ditch Checks	LF	100.000	100.000	
0158	628.7555	Culvert Pipe Checks	EACH	30.000	30.000	
0160	628.7570	Rock Bags	EACH	35.000	35.000	
0162	629.0210	Fertilizer Type B	CWT	16.000	16.000	
0164	630.0130	Seeding Mixture No. 30	LB	100.000	100.000	
0166	630.0140	Seeding Mixture No. 40	LB	500.000	500.000	
0168	631.0300	Sod Water	MGAL	60.000	60.000	
0170	632.0201	Shrubs (species) (size) (root) 01. Juniperus horizontalis, CG, #5 Container	EACH	32.000	32.000	
0172	632.9101	Landscape Planting Surveillance and Care Cycles	EACH	20.000	20.000	
0174	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	2.000	2.000	
0176	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	37.000	37.000	
0178	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	42.000	42.000	
0180	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	15.000	15.000	
0182	637.0620	Sign Flags Permanent Type II	EACH	30.000	30.000	
0184	637.2210	Signs Type II Reflective H	SF	429.200	429.200	
0186	637.2230	Signs Type II Reflective F	SF	260.210	260.210	
0188	638.2102	Moving Signs Type II	EACH	3.000	3.000	
0190	638.2602	Removing Signs Type II	EACH	25.000	25.000	
0192	638.3000	Removing Small Sign Supports	EACH	24.000	24.000	
0194	638.4000	Moving Small Sign Supports	EACH	3.000	3.000	
0196	642.5001	Field Office Type B	EACH	1.000	1.000	
0198	643.0300	Traffic Control Drums	DAY	17,600.000	17,600.000	
0200	643.0420	Traffic Control Barricades Type III	DAY	4,700.000	4,700.000	
0202	643.0500	Traffic Control Flexible Tubular Marker Posts	EACH	260.000	260.000	
0204	643.0600	Traffic Control Flexible Tubular Marker Bases	EACH	260.000	260.000	
0206	643.0705	Traffic Control Warning Lights Type A	DAY	4,500.000	4,500.000	
0208	643.0715	Traffic Control Warning Lights Type C	DAY	2,250.000	2,250.000	
0210	643.0900	Traffic Control Signs	DAY	4,350.000	4,350.000	
0212	643.0920	Traffic Control Covering Signs Type II	EACH	5.000	5.000	
0214	643.1000	Traffic Control Signs Fixed Message	SF	64.000	64.000	
0216	643.1070	Traffic Control Cones 42-Inch	DAY	5,400.000	5,400.000	
0218	643.5000	Traffic Control	EACH	1.000	1.000	
0220	644.1410.S	Temporary Pedestrian Surface Asphalt	SF	8,920.000	8,920.000	

					9650-17-71	9650-17-72
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0222	644.1601.S	Temporary Curb Ramp	EACH	9.000	9.000	
0224	644.1616.S	Temporary Pedestrian Safety Fence	LF	2,396.000	2,396.000	
0226	645.0120	Geotextile Type HR	SY	57.000	57.000	
0228	646.1020	Marking Line Epoxy 4-Inch	LF	15,247.000	15,247.000	
0230	646.3020	Marking Line Epoxy 8-Inch	LF	1,105.000	1,105.000	
0232	646.5020	Marking Arrow Epoxy	EACH	30.000	30.000	
0234	646.5120	Marking Word Epoxy	EACH	8.000	8.000	
0236	646.5220	Marking Symbol Epoxy	EACH	10.000	10.000	
0238	646.6120	Marking Stop Line Epoxy 18-Inch	LF	65.000	65.000	
0240	646.6320	Marking Dotted Extension Epoxy 18-Inch	LF	86.000	86.000	
0242	646.7120	Marking Diagonal Epoxy 12-Inch	LF	235.000	235.000	
0244	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	583.000	583.000	
0246	646.7520	Marking Crosswalk Epoxy Ladder Pattern 24-Inch	LF	330.000	330.000	
0248	646.8120	Marking Curb Epoxy	LF	135.000	135.000	
0250	646.8220	Marking Island Nose Epoxy	EACH	6.000	6.000	
0252	646.9000	Marking Removal Line 4-Inch	LF	3,237.000	3,237.000	
0254	649.0120	Temporary Marking Line Epoxy 4-Inch	LF	15,826.000	15,826.000	
0256	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	14,441.000	14,441.000	
0258	649.0850	Temporary Marking Stop Line Removable Tape 18-Inch	LF	144.000	144.000	
0260	650.4000	Construction Staking Storm Sewer	EACH	41.000	41.000	
0262	650.4500	Construction Staking Subgrade	LF	7,958.000	7,958.000	
0264	650.5000	Construction Staking Base	LF	7,958.000	7,958.000	
0266	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	11,545.000	11,545.000	
0268	650.6000	Construction Staking Pipe Culverts	EACH	4.000	4.000	
0270	650.8500	Construction Staking Electrical Installations (project) 01. 9650-17-71	LS	1.000	1.000	
0272	650.9910	Construction Staking Supplemental Control (project) 01. 9650-17-71	LS	1.000	1.000	
0274	650.9920	Construction Staking Slope Stakes	LF	4,533.000	4,533.000	
0276	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	5,918.000	5,918.000	
0278	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	1,462.000	1,462.000	
0280	653.0164	Pull Boxes Non-Conductive 24x42-Inch	EACH	11.000	11.000	
0282	654.0105	Concrete Bases Type 5	EACH	42.000	42.000	
0284	654.0230	Concrete Control Cabinet Bases Type L30	EACH	1.000	1.000	
0286	655.0610	Electrical Wire Lighting 12 AWG	LF	2,880.000	2,880.000	
0288	655.0620	Electrical Wire Lighting 8 AWG	LF	55,706.000	55,706.000	
0290	656.0200	Electrical Service Meter Breaker Pedestal (location) 01. 9650-17-71	LS	1.000	1.000	
0292	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	42.000	42.000	
0294	657.0615	Luminaire Arms Single Member 4 1/2-Inch Clamp 8-FT	EACH	42.000	42.000	

					9650-17-71	9650-17-72
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0296	659.1120	Luminaires Utility LED B	EACH	42.000	42.000	
0298	674.0300	Remove Cable	LF	2,724.000	2,724.000	
0300	690.0150	Sawing Asphalt	LF	4,766.000	4,766.000	
0302	690.0250	Sawing Concrete	LF	29.500	29.500	
0304	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,000.000	2,000.000	
0306	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	1,260.000	1,260.000	
0308	SPV.0060	Special 01. Gates Pipe Dual Leaf 18-FT	EACH	1.000	1.000	
0310	SPV.0060	Special 02. Salvage Existing Light Pole Assembly	EACH	19.000	19.000	
0312	SPV.0060	Special 03. Light Pole Type 5 Special	EACH	42.000	42.000	
0314	SPV.0060	Special 04. Lighting Control Cabinet Special	EACH	1.000	1.000	
0316	SPV.0060	Special 05. Sanitary Chimney Seals	EACH	6.000		6.000
0318	SPV.0060	Special 06. Removing Water Main Valve & Valve Box	EACH	2.000		2.000
0320	SPV.0060	Special 07. Cap Water Main To Remain In Service	EACH	2.000		2.000
0322	SPV.0060	Special 08. Abandoning Water Main Valve Box	EACH	1.000		1.000
0324	SPV.0060	Special 09. Salvage Hydrant	EACH	3.000		3.000
0326	SPV.0060	Special 10. Removing Hydrant	EACH	3.000		3.000
0328	SPV.0060	Special 11. Adjusting Water Main Valve Box	EACH	9.000		9.000
0330	SPV.0060	Special 12. Adjusting Hydrant	EACH	2.000		2.000
0332	SPV.0060	Special 13. Hydrant	EACH	1.000		1.000
0334	SPV.0060	Special 14. Water Main Gate Valve & Box 6-Inch	EACH	4.000		4.000
0336	SPV.0060	Special 15. Water Main Gate Valve & Box 10-Inch	EACH	1.000		1.000
0338	SPV.0060	Special 16. Tracer Wire Access Box	EACH	4.000		4.000
0340	SPV.0060	Special 17. Water Main Coupling 6-Inch	EACH	2.000		2.000
0342	SPV.0060	Special 18. Water Main Coupling 10-Inch	EACH	1.000		1.000
0344	SPV.0060	Special 19. Water Main Tee 10 x 6-Inch	EACH	1.000		1.000
0346	SPV.0060	Special 20. Water Main Tapping Sleeve 8 x 6-Inch	EACH	1.000		1.000
0348	SPV.0090	Special 01. Concrete Curb & Gutter 24-Inch Type D	LF	7,886.000	7,886.000	
0350	SPV.0090	Special 02. Water Main 6-Inch	LF	95.000		95.000
0352	SPV.0090	Special 03. Water Main 10-Inch	LF	75.000		75.000
0354	SPV.0090	Special 04. Brick Pavers Mortared	LF	177.000	177.000	
0356	SPV.0105	Special 01. Sign Monument	LS	1.000	1.000	
0358	SPV.0165	Special 01. Stone Mulch Epoxied	SF	1,600.000	1,600.000	
0360	SPV.0180	Special 01. Wood Mulch	SY	260.000	260.000	
0362	SPV.0180	Special 02. Weed Barrier Fabric	SY	450.000	450.000	

CLEARING AND GRUBBING

STAGE	STATION	-	STATION	LOCATION	201.0105 CLEARING STA	201.0205 GRUBBING STA	201.0120 CLEARING ID	201.0220 GRUBBING ID
1A								
	61A+00	-	63A+00	STH 47, RT	2	2	--	--
	69A+78			STH 47, RT	--	--	15	15
	73A+00	-	74A+00	STH 47, RT	1	1	--	--
	75A+34			STH 47, RT	--	--	18	18
	75A+46			STH 47, RT	--	--	14	14
	40D+64			STANDING PINES DR, LT	--	--	4	4
	93E+00	-	94E+00	GO-AROUND RD, LT	2	2	--	--
				STAGE 1A SUBTOTALS	5	5	51	51
1C								
	49A+00	-	53A+00	STH 47, LT	4	4	--	--
	53A+69			STH 47, LT	--	--	16	16
	53A+97			STH 47, LT	--	--	6	6
	54A+83			STH 47, LT	--	--	12	12
	55A+03			STH 47, LT	--	--	24	24
	55A+17			STH 47, LT	--	--	18	18
	56A+00	-	62A+00	STH 47, LT	6	6	--	--
	68A+00	-	69A+00	STH 47, LT	1	1	--	--
	63A+00	-	67A+00	STH 47, LT	4	4	--	--
				STAGE 1C SUBTOTALS	15	15	76	76
PROJECT 9650-17-71 TOTALS					**20**	**20**	**127**	**127**

REMOVING FENCE

STAGE	STATION - STATION	LOCATION	204.0170 REMOVING FENCE LF
1A			
	95E+00 - 95E+75	GO-AROUND RD, LT	75
PROJECT 9650-17-71 TOTAL			**75**

REMOVING SIDEWALK

STAGE	STATION	-	STATION	204.0155 REMOVING CONCRETE SIDEWALK SY
1A				
	59A+76	-	60A+92	42
	60A+92	-	75A+66	836
	76A+22	-	82A+92	377
			STAGE 1A SUBTOTAL	1255
1B				
	76A+63	-	82A+92	366
			STAGE 1B SUBTOTAL	366
2A				
	93E+36	-	96E+72	184
			STAGE 2A SUBTOTAL	184
PROJECT 9650-17-71 TOTAL				**1805**

REMOVING SMALL PIPE CULVERTS

STAGE	STATION	LOCATION	SIZE (IN)	TYPE	203.0100 REMOVING SMALL PIPE CULVERTS EACH
1A					
	61A+19	STH 47, RT	24	CMCP	1
	71A+72	STH 47, RT	18	CMCP	1
	72A+66	STH 47, RT	18	CMCP	1
	78A+51	STH 47, RT	18	CMCP	1
	82A+88	STH 47, RT	12	CMCP	1
		STAGE 1A SUBTOTAL			5
1C					
	49A+81	STH 47, LT	18	CMCP	1
	51A+22	STH 47, LT	18	CMCP	1
	53A+08	STH 47, LT	18	CMCP	1
	69A+14	STH 47, LT	15	CMCP	1
	80A+38	STH 47, LT	--	RCP	1
	82A+83	STH 47, LT	18	CMCP	1
	94E+32	GO-AROUND RD, LT	18	CMCP	1
	95E+92	GO-AROUND RD, LT	12	CMCP	1
		STAGE 1C SUBTOTAL			8
PROJECT 9650-17-71 TOTAL					**13**

REMOVING CURB & GUTTER

STAGE	STATION	-	STATION	LOCATION	204.0150 REMOVING CURB & GUTTER LF
1A					
	53A+84	-	54A+51	STH 47/CAMPUS CIRCLE SE RADIUS	95
	54A+80	-	55A+23	STH 47/CAMPUS CIRCLE NE RADIUS	58
	59A+83	-	75A+74	STH 47, RT	1600
	76A+05	-	82A+70	STH 47, RT	667
				STAGE 1A SUBTOTAL	2420
1B					
	72A+15	-	73A+01	STH 47, LT (PARKING LOT ENTRANCE)	85
				STAGE 1B SUBTOTAL	85
1C					
	59A+87	-	61A+38	STH 47, RT	140
	62A+25	-	72A+15	STH 47, LT	993
	73A+01	-	75A+51	STH 47, LT	249
	75A+51	-	76A+01	STH 47/DUQUAINE RD SW RADIUS	62
	76A+59	-	76A+99	STH 47/DUQUAINE RD NW RADIUS	60
	76A+99	-	79A+00	STH 47, LT	202
	90E+21	-	92E+15	DUQUAINE RD, LT	199
	90E+21	-	92E+41	DUQUAINE RD, RT	220
				STAGE 1C SUBTOTAL	2125
2A					
	20C+80	-	21C+79	CAMPUS CIRCLE, RT	92
	20C+57	-	21C+79	CAMPUS CIRCLE, LT	131
	93E+68	-	96E+72	GO AROUND RD, LT	305
				STAGE 2A SUBTOTAL	528
PROJECT 9650-17-71 TOTAL					**5158**

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

REMOVING STORM SEWER

STAGE	STATION	OFFSET	LOCATION	204.0210 REMOVING MANHOLES EACH	204.0220 REMOVING INLETS EACH	204.0245 REMOVING STORM SEWER 12-INCH LF	204.0245 REMOVING STORM SEWER 15-INCH LF	204.0245 REMOVING STORM SEWER 18-INCH LF	204.0245 REMOVING STORM SEWER 24-INCH LF
1A									
	65A+56	39.5'	RT	--	1	--	--	--	--
	68A+58	25.3'	RT	--	1	--	--	--	--
	71A+56	15.5'	RT	--	1	--	--	--	--
	73A+87	15.0'	RT	--	1	--	--	--	--
	74A+55	14.8'	RT	--	1	--	12	--	--
	76A+67	15.4'	RT	--	1	--	--	11	--
	80A+54	16.4'	RT	--	1	--	--	17	--
		STAGE 1A SUBTOTALS		0	7	0	12	28	0
1C									
	62A+80	13.3	LT	--	1	6	--	--	--
	62A+81	6.7'	LT	1	--	--	--	--	--
	62A+80 - 65A+56	1'	LT	--	--	--	--	--	275
	65A+55	6.7'	LT	--	1	6	--	--	--
	65A+56	1'	LT	1	--	14	--	--	--
	65A+56 - 68A+55	VARIES	LT	--	--	--	--	--	300
	68A+55	14.8'	LT	1	--	8	--	--	--
	68A+55 - 71A+56	VARIES	LT	--	--	--	--	--	301
	71A+56	24.1'	LT	1	--	17	--	17	--
	71A+56 - 73A+88	~25'	LT	--	--	--	--	--	232
	73A+88	25.6'	LT	1	1	--	--	18	16
	73A+88 - 74A+55	~26'	LT	--	--	--	--	--	66
	74A+53	31.5'	LT	--	1	--	--	--	--
	74A+55	26.1'	LT	1	--	6	19	--	--
	74A+55 - 76A+81	VARIES	LT	--	--	--	--	--	226
	76A+81	35.7'	LT	--	1	--	--	--	--
	76A+81 - 77A+02	31.0'	LT	--	--	22	--	--	--
	77A+02	31.0'	LT	--	1	--	--	--	--
		STAGE 1C SUBTOTALS		6	6	79	19	35	1416
2A									
	65A+55	--	RT	--	--	26	--	--	--
	68A+55	--	RT	--	--	32	--	--	--
	71A+56	--	RT	--	--	23	--	--	--
	73A+88	--	RT	--	--	--	--	22	--
	74A+55	--	RT	--	--	--	22	--	--
	76A+23	30.9'	RT	--	1	--	--	24	--
	80A+54	16.4'	RT	--	1	--	--	17	--
	21C+12 - 21C+64	--	LT	--	--	60	--	--	--
	21C+51	13.7'	RT	--	1	29	--	--	--
	21C+64	14.9'	LT	--	1	12	--	--	--
	21C+72	7.5'	LT	1	--	--	--	--	--
	94E+70	2.0'	RT	--	1	--	--	--	45
	94E+70		LT	--	--	--	--	--	16
		STAGE 2A SUBTOTALS		1	5	182	22	63	61
PROJECT 9650-17-71 TOTALS				**7**	**18**	**261**	**53**	**126**	**1477**

EARTHWORK

Stage	From/To Station	Location	Common Excavation (1) Cut (2)	Unexpanded Fill	Expanded Fill (3) Factor 1.30	Mass Ordinate +/- (4)
1	0+81 to 37+84	STH 47 Stage 1A	1374	124	161	1213
	71+00 to 73+50	STH 47 Stage 1B	369	0	0	369
	48+76 to 83+00	STH 47 Stage 1C	11264	1647	2142	9122
	10+00 to 14+52	STH 47 RAB	1813	1680	2184	-371
	90+21 to 92+50	Duquaine Road	569	28	37	532
	38+45 to 42+05	Standing Pines	1264	63	82	1182
Stage 1 Subtotal			16653	3542	4605	12048
2	48+76 to 83+00	STH 47 Stage 2A	6089	1565	2035	4054
	55+00 to 73+50	STH 47 Stage 2B	328	0	0	328
	53+00 to 83+00	STH 47 Stage 2C	148	572	743	-596
	20+50 to 21+79	Campus Road	461	76	99	362
	93+50 to 96+71	Go Around Road	745	183	238	507
Stage 2 Subtotal			7770	2396	3115	4655
Project 9650-17-71 Total			24423		7720	16704

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) Expanded Fill. Factor = 1.3
4) The Mass Ordinate: A positive quantity indicates an excess of material and a negative quantity indicates a shortage of material. Mass Ordinate = Cut - Fill. The Mass Ordinate is for information purposes only as Common Excavation and Roadway Embankment are not balanced for quantity purposes and does not guarantee the quality of Common Excavation, and if it can be reused onsite. All EBS material is assumed to be wasted offsite.

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

FILE NAME: L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\030201_mq.dgn
BATCH PRINT SHEET 1 OF 2
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PEN TABLE: L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\MS_Printing\Pen_Tables\ET_WisDOT_fade159.tbl
PLOT DATE: 12/29/2017
PLOT TIME: 10:05:04 AM
PLOT SCALE: 1:2
WISDOT/CADDS SHEET 43

BASE AGGREGATE DENSE

STAGE	STATION	-	STATION	LOCATION	305.0110 3/4-INCH TON	305.0120 1 1/4-INCH TON	624.0100 WATER MGAL
1A							
	0TSA+77	-	12TSA+03	STH 47, TEMPORARY WIDENING	44	943	9.9
	13TSA+57	-	18TSA+41	STH 47, TEMPORARY WIDENING	19	279	3.0
	22TSA+79	-	37TSA+55	STH 47, TEMPORARY WIDENING	58	568	6.3
	UNDISTRIBUTED				9	90	0.8
				STAGE 1A SUBTOTALS	130	1880	20.0
1B							
	71A+26	-	73A+29	STH 47, TEMPORARY CASINO DRIVEWAY, LT	7	312	3.2
	UNDISTRIBUTED				3	8	0.1
				STAGE 1B SUBTOTAL	10	320	3.3
1C							
	48A+63	-	49A+35	STH 47, LT	21	138	1.6
	49A+35	-	60A+55	STH 47, SOUTH LEG OF ROUNDABOUT	--	3,970	40.0
	49A+43	-	60A+20	STH 47, SIDEWALK, LT	221	--	2.3
	54A+79			STH 47, DRIVEWAY, LT	--	168	1.7
	56A+88	-	60A+50	STH 47 ISLAND	101	--	1.1
	60A+20	-	60A+60	STH 47/STANDING PINES DR SW RADIUS, SIDEWALK	39	--	0.4
	62A+07	-	65A+14	STH 47 NE ISLAND	114	--	1.2
	62A+21	-	83A+00	STH 47, NORTH LEG OF ROUNDABOUT	--	5,168	52.0
	62A+28	-	63A+05	STH 47 NW ISLAND	28	--	0.3
	62A+28	-	62A+68	STH 47/STANDING PINES DR NW RADIUS, SIDEWALK	26	--	0.3
	62A+68	-	72A+21	STH 47, SIDEWALK, LT	248	--	2.5
	72A+93	-	75A+86	STH 47, SIDEWALK, LT	57	--	0.6
	76A+68	-	79A+03	STH 47, SIDEWALK, LT	45	--	0.5
	10B+00	-	14B+53	ROUNDABOUT	--	590	5.9
	38D+44	-	42D+00	STANDING PINES DR, WEST LEG OF ROUNDABOUT	--	1,452	15.0
	40D+33	-	42D+00	STANDING PINES DR, ISLAND	43	--	0.5
	90E+21	-	92E+56	DUQUAINE RD	--	789	7.9
	UNDISTRIBUTED				107	725	0.7
				STAGE 1C SUBTOTAL	1,050	13,000	135.0
2A							
	47A+25	-	83A+00	STH 47, NB ROADWAY, RT	--	5,281	52.9
	20C+32	-	21C+79	CAMPUS DR	--	475	4.8
	20C+31	-	21C+79	CAMPUS DR, SIDEWALK, LT	34	--	0.4
	21C+43			CAMPUS DR, DRIVEWAY, LT	--	9	0.1
	55A+23	-	75A+56	STH 47, SIDEWALK, RT	465	--	4.7
	61A+13			STH 47, DRIVEWAY, RT	--	57	0.6
	76A+33	-	82A+46	STH 47, SIDEWALK, RT	121	--	1.3
	68A+24			STH 47, DRIVEWAY, RT	--	26	0.3
	72A+66			STH 47, DRIVEWAY, RT	--	29	0.3
	93E+46	-	96E+71	GO-AROUND RD, SIDEWALK, LT	65	--	0.7
	94E+26	-	96E+71	GO-AROUND RD	36	1,049	10.9
	UNDISTRIBUTED				39	370	0.4
				STAGE 2A SUBTOTAL	760	7,296	77.4
2B							
	53A+47	-	54A+37	STH 47, ISLAND	30	--	0.3
	55A+10	-	58A+25	STH 47, ISLAND	78	--	0.8
	72A+21	-	72A+93	STH 47, SIDEWALK, LT	14	--	0.2
	UNDISTRIBUTED				8	--	0.1
				STAGE 2B SUBTOTAL	130	0	1.4
2C							
	70A+03	-	82A+92	STH 47, SIDEWALK, LT	78	--	0.8
	10B+00	-	14B+52.76	STH 47 RAB, PAVERS	--	4	0.1
	UNDISTRIBUTED				7	--	0.1
				STAGE 2C SUBTOTAL	85	4	1.0
PROJECT 9650-17-71 TOTAL					**2,165**	**22,500**	**239.0**

FINISHING ROADWAY

PROJECT	213.0100 FINISHING ROADWAY EACH
9650-17-71	1
PROJECT 9650-17-71 TOTAL	**1**

CONCRETE

STAGE	STATION	-	STATION	LOCATION	(CAT 0020) 602.0405 CONCRETE SIDEWALK 4-INCH SF	416.0160 CONCRETE DRIVEWAY 6-INCH SY	620.0300 CONCRETE MEDIAN SLOPED NOSE SF	405.0100 COLORING CONCRETE WisDOT RED CY	416.0512 CONCRETE TRUCK APRON 12-INCH SY
1C									
	49A+43	-	60A+32	STH 47, LT	5680	--	--	--	--
	49A+76	-	49A+86	STH 47, LT	--	15	--	--	--
	53A+01	-	53A+17	STH 47, LT	--	22	--	--	--
	54A+68	-	54A+86	STH 47, LT	--	21	--	--	--
	55A+67	-	57A+35	STH 47, TERRACE, LT	674	--	--	8	--
	56A+88	-	60A+50	STH 47, ISLAND	3,668	--	--	45	--
	60A+25	-	60A+35	STH 47 ISLAND, CROSSWALK	231	--	--	--	--
	60A+32	-	60A+60	STH 47/STANDING PINES DR SW RADIUS	816	--	--	--	--
	40D+30	-	42D+00	STANDING PINES DR ISLAND	1,502	--	60	19	--
	41D+70	-	41D+80	STANDING PINES DR ISLAND, CROSSWALK	174	--	--	--	--
	62A+07	-	65A+14	STH 47 NE ISLAND	4,088	--	60	50	--
	62A+28	-	62A+68	STH 47/STANDING PINES DR NW RADIUS	664	--	--	--	--
	62A+28	-	63A+05	STH 47 NW ISLAND	933	--	60	11	--
	62A+31	-	62A+41	STH 47 NE ISLAND, CROSSWALK	350	--	--	--	--
	62A+55	-	62A+63	STH 47 NW ISLAND, CROSSWALK	166	--	--	--	--
	62A+68	-	72A+21	STH 47, LT	6,239	--	--	--	--
	69A+00	-	69A+28	STH 47, LT	--	36	--	--	--
	72A+93	-	75A+86	STH 47, LT	1,467	--	--	--	--
	74A+63	-	75A+77	STH 47, TERRACE, LT	330	--	--	4	--
	76A+68	-	79A+03	STH 47, LT	1,157	--	--	--	--
	10B+00	-	14B+53	ROUNDABOUT	--	--	--	112	334
				STAGE 1C SUBTOTAL	28,139	93	180	249	334
2A									
	20C+31	-	21C+79	CAMPUS DR, LT	828	--	--	--	--
	21C+35	-	21C+52	CAMPUS DR, LT	--	20	--	--	--
	55A+23	-	75A+56	STH 47, RT	11314	--	--	--	--
	61A+06	-	61A+23	STH 47, RT	--	65	--	--	--
	65A+91	-	66A+04	STH 47, RT	--	18	--	--	--
	68A+10	-	68A+39	STH 47, RT	--	37	--	--	--
	71A+59	-	71A+84	STH 47, RT	--	33	--	--	--
	72A+50	-	72A+81	STH 47, RT	--	40	--	--	--
	73A+26	-	75A+45	STH 47, RT	--	--	--	9	--
	76A+33	-	82A+46	STH 47, RT	2889	--	--	--	--
	93E+46	-	96E+71	GO-AROUND RD, LT	1586	--	--	--	--
	95E+82	-	96E+02	GO-AROUND RD, LT	--	18	--	--	--
				STAGE 2A SUBTOTAL	16,617	231	0	9	0
2B									
	53A+47	-	54A+37	STH 47 ISLAND	1133	--	105	14	--
	55A+10	-	58A+25	STH 47 ISLAND	3014	--	56	37	--
	72A+21	-	72A+93	STH 47, LT	357	--	--	--	--
				STAGE 2B SUBTOTAL	4,504	0	161	51	0
2C									
	79A+03	-	82A+46	STH 47, LT	1720	--	--	--	--
				STAGE 2C SUBTOTAL	1,720	0	0	0	0
PROJECT 9650-17-71 TOTALS					**50,980**	**324**	**341**	**309**	**334**

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

PAVEMENT ITEMS

STAGE	STATION	-	STATION	LOCATION	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	465.0105 ASPHALTIC SURFACE TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	465.0125 ASPHALTIC SURFACE TEMPORARY TON
1A										
	0TSA+76	-	11TSA+84	STH 47	--	--	--	--	--	500
	13TSA+64	-	18TSA+45	STH 47	--	--	--	--	--	160
	22TSA+77	-	37TSA+55	STH 47	--	--	--	--	--	280
				STAGE 1A SUBTOTALS	0	0	0	0	0	940
1B										
	71A+34	-	73A+25	STH 47	--	--	--	--	--	110
				STAGE 1B SUBTOTALS	0	0	0	0	0	110
1C										
	49A+67	-	60A+50	STH 47/SOUTH LEG OF ROUNDABOUT	250	840	700	--	--	--
	53A+42	-	54A+42	STH 47	--	--	--	--	--	45
	54A+80			STH 47, LT DRIVEWAY	--	--	--	--	50	--
	55A+08	-	58A+25	STH 47	--	--	--	--	--	115
	79A+02	-	83A+14	STH 47	--	--	--	--	--	70
	83A+43	-	85A+42	STH 47	--	--	--	--	--	35
	61A+59	-	83A+00	STH 47/NORTH LEG OF ROUNDABOUT	350	1,185	990	--	--	--
	10B+00	-	14B+53	ROUNDABOUT	50	160	130	--	--	--
	38D+44	-	42D+00	STANDING PINES DR/WEST LEG OF ROUNDABOUT	90	295	245	--	--	--
	90E+21	-	92E+60	DUQUAINE RD	60	180	150	--	--	--
				STAGE 1C SUBTOTALS	800	2,660	2,215	0	50	265
2A										
	48A+67	-	58A+70	STH 47/SOUTH LEG OF ROUNDABOUT	80	255	210	--	--	--
	61A+12	-	83A+00	STH 47/NORTH LEG OF ROUNDABOUT	250	855	715	--	--	--
	61A+15			STH 47, RT DRIVEWAY	--	--	--	--	25	--
	68A+24			STH 47, RT DRIVEWAY	--	--	--	--	13	--
	72A+66			STH 47, RT DRIVEWAY	--	--	--	--	11	--
	82A+46	-	82A+92	STH 47, RT SIDEWALK	--	--	--	5	--	--
	20C+28	-	21C+79	CAMPUS DR	40	110	90	--	--	--
	21C+44			CAMPUS DR, LT DRIVEWAY	--	--	--	--	5	--
	93E+30	-	96E+71	GO-AROUND RD	60	200	165	--	--	--
				STAGE 2A SUBTOTALS	430	1,420	1,180	5	54	0
2C										
	82A+47	-	82A+93	STH 47, LT SIDEWALK	--	--	--	5	--	--
				STAGE 2C SUBTOTALS	0	0	0	5	0	0
				Undistributed	--	--	--	--	20	50
PROJECT 9650-17-71 TOTAL					**1,230**	**4,080**	**3,395**	**10**	**124**	**1,365**

ASPHALTIC FLUMES

STAGE	STATION	OFFSET	LOCATION	465.0315 ASPHALTIC FLUMES SY
1C	49A+24	17' LT	STH 47	9
2A	49A+39	17' RT	STH 47	9
PROJECT 9650-17-71 TOTAL				**18**

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

CONCRETE CURB & GUTTER

STAGE	STATION	-	STATION	LOCATION	(CAT0030) 405.0200 COLORING CONCRETE CUSTOM (BLUE) CY	601.0407 CONCRETE CURB & GUTTER 18-INCH TYPE D LF	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	601.0582 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T LF	601.0600 CONCRETE CURB PEDESTRIAN LF	SPV.0090.01 CONCRETE CURB & GUTTER 24-INCH TYPE D LF	650.5500 CONSTRUCTION STAKING CURB GUTTER & CURB & GUTTER LF
1C											
	49A+43	-	60A+01	STH 47, LT	--	--	--	--	--	1054	1054
	56A+85	-	59A+70	STH 47 ISLAND	--	--	--	--	--	438	438
	59A+70	-	60A+50	STH 47 ISLAND	--	--	203	--	--	--	203
	60A+01	-	60A+27	STH 47, LT	--	--	39	--	--	--	39
	60A+25			STH 47 ISLAND CROSSWALK	--	--	--	--	20	--	20
	60A+34			STH 47 ISLAND CROSSWALK	--	--	--	--	25	--	25
	62A+31			STH 47 ISLAND CROSSWALK	--	--	--	--	35	--	35
	62A+41			STH 47 ISLAND CROSSWALK	--	--	--	--	29	--	29
	62A+55			STH 47 ISLAND CROSSWALK	--	--	--	--	15	--	15
	62A+63			STH 47 ISLAND CROSSWALK	--	--	--	--	15	--	15
	60A+27	-	61A+77	STH 47/STANDING PINES DR. SW RADIUS	--	--	150	--	--	--	150
	62A+27	-	62A+51	STH 47/STANDING PINES DR. NW RADIUS	--	--	95	--	--	--	95
	62A+05	-	65A+15	STH 47 ISLAND	--	--	650	--	--	--	650
	62A+26	-	63A+05	STH 47, ISLAND	--	--	194	--	--	--	194
	62A+51	-	65A+08	STH 47, LT	--	--	276	--	--	--	276
	65A+08	-	75A+63	STH 47, LT	--	--	--	--	--	1054	1054
	75A+63	-	76A+01	STH 47/GO-AROUND RD. SW RADIUS	--	--	--	--	--	50	50
	76A+50	-	77A+02	STH 47/GO-AROUND RD. NW RADIUS	--	--	--	--	--	109	109
	77A+02	-	79A+02	STH 47, LT	--	--	--	--	--	199	199
	10B+00	-	14B+53	ROUNDABOUT OUTER RING	--	--	--	314	--	--	314
	10B+00	-	14B+53	ROUNDABOUT INNER RING	9	231	--	--	--	--	231
	38D+77	-	41D+35	STH 47, LT	--	--	275	--	--	--	275
	38D+83	-	41D+33	STH 47, RT	--	--	250	--	--	--	250
	40D+33	-	42D+00	STANDING PINES DR. ISLAND	--	--	371	--	--	--	371
	41D+70			STANDING PINES DR. ISLAND CROSSWALK	--	--	--	--	13	--	13
	41D+80			STANDING PINES DR. ISLAND CROSSWALK	--	--	--	--	17	--	17
	41D+04	-	41D+47	STANDING PINES DR., LT (CASINO P. LOT)	--	53	--	--	--	--	53
	90E+21	-	92E+32	GO-AROUND RD, RT	--	--	--	--	--	208	208
	90E+21	-	91E+74	GO-AROUND RD, LT	--	--	--	--	--	157	157
				STAGE 1C SUBTOTALS	9	284	2503	314	169	3269	6539
2A											
	49A+43	-	53A+94	STH 47, RT	--	--	--	--	--	451	451
	53A+94	-	54A+48	STH 47/CAMPUS CIRCLE SE RADIUS	--	--	--	--	--	89	89
	54A+79	-	55A+22	STH 47/CAMPUS CIRCLE NE RADIUS	--	--	--	--	--	68	68
	55A+22	-	59A+09	STH 47, RT	--	--	--	--	--	394	394
	59A+09	-	62A+61	STH 47, RT	--	--	350	--	--	--	350
	62A+61	-	75A+26	STH 47, RT	--	--	--	--	--	1262	1262
	75A+26	-	75A+86	STH 47/GO-AROUND RD SE RADIUS	--	--	--	--	--	128	128
	76A+19	-	76A+54	STH 47/GO-AROUND RD NE RADIUS	--	--	--	--	--	55	55
	76A+54	-	82A+46	STH 47, RT	--	--	--	--	--	593	593
	20C+72	-	21C+79	CAMPUS CIRCLE, LT	--	--	--	--	--	115	115
	20C+88	-	21C+79	CAMPUS CIRCLE, RT	--	--	--	--	--	83	83
	93E+66	-	96E+72	GO-AROUND RD, LT	--	--	--	--	--	309	309
				STAGE 2A SUBTOTALS	0	0	350	0	0	3547	3897
2B											
	55A+15	-	59A+70	STH 47 ISLAND	--	--	--	--	--	477	477
	72A+20	-	72A+94	STH 47, LT	--	--	--	--	--	73	73
	72A+38	-	72A+77	STH 47, LT (CASINO PARKING LOT)	--	--	39	--	--	--	39
				STAGE 2B SUBTOTALS	0	0	39	0	0	550	589
2C											
	53A+49	-	54A+35	STH 47 ISLAND	--	--	--	--	--	176	176
	79A+02	-	82A+46	STH 47, LT	--	--	--	--	--	344	344
				STAGE 2C SUBTOTALS	0	0	0	0	0	520	520
PROJECT 9650-17-71 TOTALS					**9**	**284**	**2892**	**314**	**169**	**7886**	**11545**

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

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CULVERT PIPES

STAGE	STATION	LOCATION	NUMBER OF CULVERTS	522.0112 CULVERT PIPE RC CLASS III 12-INCH LF	522.0118 CULVERT PIPE RC CLASS III 18-INCH LF	520.3318 CULVERT PIPE CLASS III-A 18-INCH LF	520.1018 AEW FOR CULVERT PIPE 18-INCH EACH	522.1012 AEW FOR CULVERT PIPE RC 12-INCH EACH	522.1018 AEW FOR CULVERT PIPE RC 18-INCH EACH	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH
2A										
	72A+66	DRIVEWAY, RT	1	--	30	--	--	--	2	1
	78A+49	DRIVEWAY, RT	1	--	--	47	2	--	--	1
	81A+26	DRIVEWAY, RT	1	24	--	--	--	2	--	1
	82A+89	STH 47, RT	1	--	--	22	2	--	--	1
PROJECT 9650-17-71 TOTALS			4	**24**	**30**	**69**	**4**	**2 ✳**	**2 ✳**	**4**

MINIMUM WALL THICKNESS FOR STEEL CULVERT PIPE:
18-INCH THROUGH 24-INCH 0.064 INCHES

✳ ADDITIONAL QUANTITIES FOUND IN MISCELLANEOUS QUANTITIES SHEETS.

RIPRAP

STAGE	STATION	-	STATION	LOCATION	606.0200 RIPRAP MEDIUM CY	645.0120 GEOTEXTILE TYPE HR SY
1C	48A+99	-	49A+16	STH 47, LT	9	25
2A	49A+12	-	49A+42	STH 47, RT	10	32
PROJECT 9650-17-71 TOTAL					**19**	**57**

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

STORM SEWER PIPE

STAGE	FROM STRUCTURE NUMBER	TO STRUCTURE NUMBER	INVERT ELEVATION	DISCHARGE ELEVATION	520.8000 CONCRETE COLLAR EACH	608.0412 STORM SEWER PIPE CLASS IV 12-INCH LF	608.0415 STORM SEWER PIPE CLASS IV 15-INCH LF	608.0418 STORM SEWER PIPE CLASS IV 18-INCH LF	608.0424 STORM SEWER PIPE CLASS IV 24-INCH LF	608.0430 STORM SEWER PIPE CLASS IV 30-INCH LF	COMMENTS
1A											
	4.0	5.0	872.77	872.23	--	--	--	--	114	--	
	5.1	5.0	872.74	872.48	--	--	52	--	--	--	
	5.0	6.0	872.23	871.66	--	--	--	--	32	--	103' TO ADD IN STAGE 1C
	10.1	10.0	853.98	853.86	1	--	--	16	--	--	8' TO ADD IN STAGE 1C
	AEW	12.0	853.96	852.52	--	--	--	--	20	--	8' TO ADD IN STAGE 1C
				STAGE 1A SUBTOTALS	1	0	52	16	166	0	
1C											
	1.0	AEW	870.50	870.10	--	--	--	--	86	--	
	1.1	1.0	871.05	870.87	--	--	28	--	--	--	8' TO ADD IN STAGE 2A
	2.0	1.0	874.35	870.50	--	--	--	--	200	--	
	2.2	2.0	875.22	875.10	--	--	12	--	--	--	
	2.1	2.0	875.66	875.10	--	--	40	--	--	--	16' TO ADD IN STAGE 2A
	3.1	3.0	877.44	877.15	--	48	--	--	--	--	9' TO ADD IN STAGE 2A
	3.0	4.0	876.90	872.87	--	--	189	--	--	--	
	4.1	4.0	873.54	873.12	--	--	84	--	--	--	
	5.0	6.0	872.23	871.66	--	--	--	--	103	--	
	6.0	7.0	871.56	870.50	--	--	--	--	100	--	
	6.1	6.0	871.88	871.56	--	--	56	--	--	--	8' TO ADD IN STAGE 2A
	7.0	8.0	870.25	863.38	--	--	--	--	354	--	
	8.1	8.0	864.12	863.88	--	--	38	--	--	--	9' TO ADD IN STAGE 2A
	8.0	8.2	863.38	860.34	--	--	--	--	152	--	
	8.2	9.0	860.34	856.84	--	--	--	--	201	--	
	9.1	9.0	857.09	856.84	--	--	26	--	--	--	24' TO ADD IN STAGE 2A
	9.0	10.0	856.34	852.86	--	--	--	--	155	--	
	10.1	10.0	853.98	853.86	--	--	--	8	--	--	
	10.0	11.0	852.86	852.53	--	--	--	--	221	--	
	11.0	12.0	852.53	852.52	--	--	--	--	8	--	
	AEW	12.0	853.96	852.52	--	--	--	--	8	--	
	12.1	12.0	853.30	853.02	--	--	--	24	--	--	32' TO ADD IN STAGE 2A
	12.0	13.0	852.52	852.33	--	--	--	--	116	--	
	13.1	13.0	853.41	853.33	--	--	8	--	--	--	
	AEW	13.0	853.98	853.08	--	--	28	--	--	--	58' TO ADD IN STAGE 2A
	13.0	14.0	852.33	852.06	--	--	--	--	--	181	
	14.0	EXISTING	851.96	851.92±	--	--	--	--	8	--	
	14.1	14.0	852.80	852.46	--	--	--	28	--	--	40' TO ADD IN STAGE 2A
	AEW	14.1	854.28	852.80	--	--	--	15	--	--	
	15.0	14.0	852.81	852.71	--	--	26	--	--	--	
	16.0	15.0	854.46	853.06	--	--	343	--	--	--	
	16.1	16.0	854.78	854.56	--	20	--	--	--	--	24' TO ADD IN STAGE 2A
				STAGE 1C SUBTOTALS	0	68	878	75	1712	181	
2A											
	1.1	1.0	--	--	--	--	8	--	--	--	
	2.1	2.0	--	--	--	--	16	--	--	--	
	3.1	3.0	--	--	--	9	--	--	--	--	
	6.1	6.0	--	--	--	--	8	--	--	--	
	8.1	8.0	--	--	--	--	9	--	--	--	
	9.1	9.0			--	--	24	--	--	--	
	12.2	12.1	853.34	853.30	--	8	--	--	--	--	
	12.1	12.0	853.30	853.02	--	--	--	32	--	--	
	AEW	13.0	--	--	--	--	58	--	--	--	
	14.1	14.0	--	--	--	--	--	40	--	--	
	14.2	14.1	853.10	852.90	--	39	--	--	--	--	
	14.3	14.2	853.48	853.20	--	56	--	--	--	--	
	16.1	16.0	--	--	--	24	--	--	--	--	
	AEW	17.1	879.12	874.65	--	66	--	--	--	--	
	17.1	17.0	874.65	874.59	--	--	12	--	--	--	
	17.2	17.0	874.71	874.59	--	--	24	--	--	--	
				STAGE 2A SUBTOTALS	0	202	159	72	0		
PROJECT 9650-17-71 TOTALS					**1**	**270**	**1089**	**163**	**1878**	**181**	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

APRON ENDWALLS AND INLETS

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	611.3004 INLETS 4-FT EACH	611.3230 INLETS 2x3-FT EACH	611.8120.S COVER PLATES TEMPORARY EACH
1A											
	4.0	60A+32	53.1	LT	--	--	--	--	1	--	1
	5.0	60A+59	155.0	LT	--	--	--	--	--	--	1
	5.1	62A+26	165.8	LT	--	--	--	--	--	1	1
	10.1	71A+55	55.5	LT	--	--	--	--	--	1	--
	AEW	73A+87.5	59.0	LT	--	--	--	1	--	--	--
				STAGE 1A SUBTOTALS	0	0	0	1	1	2	3
1C											
	AEW	49A+16	37.1	LT	--	--	--	1	--	--	--
	1.0	50A+00	18.2	LT	--	--	--	--	1	--	--
	2.0	52A+00	15.0	LT	--	--	--	--	--	--	--
	2.2	52A+00	27.2	LT	--	--	--	--	--	1	--
	3.0	58A+65	30.6	LT	--	--	--	--	--	1	--
	4.1	60A+59	25.5	RT	--	--	--	--	--	1	--
	6.0	62A+02	44.6	LT	--	--	--	--	--	--	--
	7.0	62A+99	36.3	LT	--	--	--	--	--	--	--
	8.0	66A+50	29.0	LT	--	--	--	--	--	--	--
	8.2	68A+00	18.0	LT	--	--	--	--	--	--	--
	9.0	70A+00	32.0	LT	--	--	--	--	--	--	--
	10.0	71A+55	32.0	LT	--	--	--	--	--	--	--
	11.0	73A+76	32.0	LT	--	--	--	--	1	--	--
	12.0	73A+84	32.0	LT	--	--	--	--	--	--	--
	13.0	75A+00	32.7	LT	--	--	--	--	--	--	--
	13.1	75A+00	40.8	LT	--	--	--	--	--	1	--
	14.0	76A+81	33.7	LT	--	--	--	--	--	--	--
	15.0	77A+06	37.0	LT	--	--	--	--	--	1	--
	16.0	80A+50	25.9	LT	--	--	--	--	--	1	--
				STAGE 1C SUBTOTALS	0	0	0	1	2	6	0
2A											
	1.1	50A+00	18.0	RT	--	--	--	--	--	1	--
	2.1	52A+38	25.6	RT	--	--	--	--	--	1	--
	3.1	58A+65	26.4	RT	--	--	--	--	--	1	--
	6.1	62A+00	18.9	RT	--	--	--	--	--	1	--
	8.1	66A+50	18.0	RT	--	--	--	--	--	1	--
	9.1	70A+00	18.0	RT	--	--	--	--	--	1	--
	12.1	73A+84	24.9	RT	--	--	--	--	--	1	--
	12.2	73A+76	23.9	RT	--	--	--	--	--	1	--
	AEW	74A+61.3	44.1	RT	--	1	--	--	--	--	--
	AEW	76A+53.9	45.6	RT	--	--	1	--	--	--	--
	14.1	76A+58	30.2	RT	--	--	--	--	--	--	--
	14.2	76A+24.7	50.8	RT	--	--	--	--	1	--	--
	14.3	75A+68.5	47.8	RT	--	--	--	--	--	1	--
	16.1	80A+50	18.1	RT	--	--	--	--	--	1	--
	AEW	21C+08.3	30.0	LT	1	--	--	--	--	--	--
	17.0	21C+72	7.5	LT	--	--	--	--	--	--	--
	17.1	21C+63	14.9	LT	--	--	--	--	--	1	--
	17.2	21C+63	14.8	RT	--	--	--	--	--	1	--
				STAGE 2A SUBTOTALS	1	1	1	0	1	12	0
PROJECT 9650-17-71 TOTALS					1 *	1	1 *	2	4	20	3

* ADDITIONAL QUANTITIES FOUND IN MISCELLANEOUS QUANTITIES SHEETS.

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

MANHOLES AND COVERS

STAGE	STRUCTURE NUMBER	STATION	OFFSET	LOCATION	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.0612 INLET COVERS TYPE C EACH	611.0624 INLET COVERS TYPE H EACH	611.0627 INLET COVERS TYPE HM EACH	611.0639 INLET COVERS TYPE H-S EACH	RIM OR FLANGE LINE ELEVATION	STRUCTURE LOWEST INVERT ELEVATION	DEPTH
1A															
	5.0	60A+59	155.0	LT	--	--	1	--	--	1	--	--	877.32	872.23	3.92
				STAGE 1A SUBTOTALS	0	0	1	0	0	1	0	0			
1C															
	AEW	49A+16.00	37.1	LT	--	--	--	--	--	--	--	--	--	--	--
	1.0	50A+00.00	18.2	LT	--	--	--	--	--	1	--	--	875.05	870.50	3.38
	2.0	52A+00.00	15.0	LT	1	--	--	1	--	--	--	--	879.40	874.35	3.64
	2.2	52A+00.00	27.2	LT	--	--	--	--	--	1	--	--	879.14	875.22	2.75
	3.0	58A+65	30.6	LT	--	--	--	--	--	1	--	--	881.16	876.90	3.15
	4.0	60A+32	53.1	LT	--	--	--	--	--	1	--	--	877.76	872.77	3.82
	4.1	60A+59	25.5	RT	--	--	--	--	--	1	--	--	877.60	873.54	2.95
	5.1	62A+26	157.9	LT	--	--	--	--	--	1	--	--	877.50	872.81	3.58
	6.0	62A+02	44.6	LT	--	1	--	--	--	--	1	--	875.84	871.56	2.87
	7.0	62A+99	36.3	LT	1	--	--	--	--	1	--	--	875.02	870.25	3.60
	8.0	66A+50	29.0	LT	--	1	--	--	--	1	--	--	868.24	863.38	3.69
	8.2	68A+00	18.0	LT	1	--	--	1	--	--	--	--	865.11	860.34	3.36
	9.0	70A+00	32.0	LT	--	1	--	--	--	1	--	--	861.07	856.34	3.56
	10.0	71A+55	32.0	LT	--	1	--	--	--	1	--	--	858.22	852.86	4.19
	10.1	71A+55	55.5	LT	--	--	--	--	1	--	--	--	857.36	853.98	2.01
	11.0	73A+76	32.0	LT	--	--	--	--	--	--	--	1	856.64	852.53	2.96
	12.0	73A+84	32.0	LT	--	1	--	--	--	--	--	1	856.63	852.52	2.96
	13.0	75A+00	32.7	LT	--	--	1	1	--	--	--	--	856.73	852.33	2.95
	13.1	75A+00	40.8	LT	--	--	--	--	--	1	--	--	856.79	853.41	2.27
	14.0	76A+81	33.7	LT	--	--	1	1	--	--	--	--	857.89	851.96	4.58
	15.0	77A+06	37.0	LT	--	--	--	--	--	1	--	--	857.94	852.81	4.21
				STAGE 1C SUBTOTALS	3	5	2	4	1	12	1	2			
2A															
	1.1	50A+00	18.0	RT	--	--	--	--	--	1	--	--	875.05	871.05	2.89
	2.1	52A+38	25.6	RT	--	--	--	--	--	1	--	--	879.92	875.66	3.15
	3.1	58A+65	26.4	RT	--	--	--	--	--	1	--	--	881.00	877.44	2.47
	6.1	62A+25	18.0	RT	--	--	--	--	--	1	--	--	876.02	871.88	3.03
	8.1	66A+50	18.0	RT	--	--	--	--	--	1	--	--	868.18	864.12	2.95
	9.1	70A+00	18.0	RT	--	--	--	--	--	1			861.07	857.09	2.87
	12.1	73A+84	24.9	RT	--	--	--	--	--	--	--	1	856.63	853.30	2.24
	12.2	73A+76	23.9	RT	--	--	--	--	--	--	--	1	856.63	853.34	2.20
	AEW	74A+61.3	44.1	RT	--	--	--	--	--	--	--	--	--	--	--
	AEW	76A+53.9	45.6	RT	--	--	--	--	--	--	--	--	--	--	--
	14.1	76A+58	30.2	RT	--	1	--	--	--	1	--	--	857.59	852.80	3.66
	14.2	76A+24.7	50.8	RT	--	--	--	--	--	1	--	--	857.00	853.10	2.81
	14.3	75A+68.5	47.8	RT	--	--	--	--	--	1	--	--	856.73	853.48	2.16
	16.1	80A+50	18.1	RT	--	--	--	--	--	1	--	--	860.28	854.78	4.41
	AEW	21C+08.3	30.0	LT	--	--	--	--	--	--	--	--	--	--	--
	17.0	21C+72	7.5	LT	1	--	--	1	--	--	--	--	879.09	873.94	3.80
	17.1	21C+63	14.9	LT	--	--	--	--	--	1	--	--	879.18	874.65	3.42
	17.2	21C+63	14.8	RT	--	--	--	--	--	1	--	--	879.18	874.71	3.36
				STAGE 2A SUBTOTALS	1	1	0	1	0	12	0	2	--	--	--
2C															
	16.0	80A+50	25.9	LT	--	--	--	--	--	1	--	--	860.28	854.46	4.71
				STAGE 2C SUBTOTALS	0	0	0	0	0	1	0	0	--	--	--
PROJECT 9650-17-71 TOTALS					**4**	**6**	**3**	**5**	**1**	**26**	**1**	**4**	--	--	--

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

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MOBILIZATION

PROJECT	619.1000 MOBILIZATION EACH
9650-17-71	0.98
PROJECT 9650-17-71 TOTAL	0.98
9650-17-72	0.02
PROJECT 9650-17-72 TOTAL	0.02

EROSION CONTROL MOBILIZATION

STAGE	628.1905 MOBILIZATION EROSION CONTROL EACH	628.1910 MOBILIZATION EMERGENCY EROSION CONTROL EACH
1A	1	1
1B	1	1
1C	1	1
2A	1	1
2B	1	1
2C	1	1
PROJECT 9650-17-71 TOTAL	**6**	**6**

CURB RAMP DETECTABLE WARNING FIELD YELLOW (CAT 0020)

STAGE	STATION	LOCATION	LOCATION	602.0505 SF	REMARKS
1C					
	49A+45	LT	STH 47, SIDEWALK	10	2-2FT x 2FT, 1-2FT x 1FT
	55A+25	LT	STH 47, SIDEWALK	10	2-2FT x 2FT, 1-2FT x 1FT
	60A+18	LT	STH 47, SIDEWALK	20	5-2FT x 2FT
	60A+25	LT	STH 47 ISLAND	20	5-2FT x 2FT
	60A+29	LT	STH 47 ISLAND	20	5-2FT x 2FT
	62A+36	LT	STH 47 ISLAND	20	5-2FT x 2FT
	62A+44	LT	STH 47 ISLAND	20	5-2FT x 2FT
	62A+56	LT	STH 47 ISLAND	20	5-2FT x 2FT
	62A+63	LT	STH 47 ISLAND	20	5-2FT x 2FT
	62A+72	LT	STH 47, SIDEWALK	20	5-2FT x 2FT
	75A+81	LT	STH 47, SIDEWALK	14	3-2FT x 2FT, 1-2FT x 1FT
	76A+71	LT	STH 47, SIDEWALK	12	3-2FT x 2FT
	41D+62	LT	STANDING PINES DR, SIDEWALK	20	5-2FT x 2FT
	41D+72	LT	STANDING PINES DR	20	5-2FT x 2FT
	41D+75	LT	STANDING PINES DR	20	5-2FT x 2FT
	41D+24	RT	STANDING PINES DR	20	5-2FT x 2FT
			STAGE 1C SUBTOTAL	286	
2A					
	55A+28	RT	STH 47, SIDEWALK	10	2-2FT x 2FT, 1-2FT x 1FT
	60A+29	RT	STH 47, SIDEWALK	20	5-2FT x 2FT
	62A+36	RT	STH 47, SIDEWALK	20	5-2FT x 2FT
	75A+50	RT	STH 47, SIDEWALK	16	4-2FT x 2FT
	76A+36	RT	STH 47, SIDEWALK	20	5-2FT x 2FT
	82A+89	RT	STH 47, SIDEWALK	10	2-2FT x 2FT,1-1FT x 2FT
	21C+76	LT	CAMPUS DR	10	2-2FT x 2FT,1-1FT x 2FT
			STAGE 2A SUBTOTAL	106	
2B					
	55A+26	LT	STH 47 ISLAND	20	4-2FT x 2FT, 2-2FT x 1FT
			STAGE 2B SUBTOTAL	20	
2C					
	82A+89	LT	STH 47, SIDEWALK	10	2-2FT x 2FT,1-1FT x 2FT
			STAGE 2C SUBTOTAL	10	
PROJECT 9650-17-71 TOTAL				**422**	

INLET PROTECTION

STAGE	STATION	OFFSET	628.7005 TYPE A EACH	628.7015 TYPE C EACH
1C				
	50A+00	LT	1	1
	52A+00	LT	1	1
	52A+00	MANHOLE, LT	1	--
	58A+65	LT	1	1
	60A+32	LT	1	1
	60A+59	RT	1	1
	60A+59	LT	1	1
	62A+02	LT	1	1
	62A+26	LT	1	1
	62A+99	LT	1	1
	66A+50	LT	1	1
	68A+00	MANHOLE, LT	1	--
	68A+50	LT	1	--
	70A+00	LT	2	1
	71A+55	MANHOLE, LT	1	1
	73A+76	LT	1	1
	73A+84	LT	1	1
	75A+00	LT	1	1
	75A+00	MANHOLE, LT	1	--
	76A+81	MANHOLE, LT	1	--
	77A+06	LT	1	1
		STAGE 1C SUBTOTALS	22	16
2A				
	50A+00	RT	1	1
	52A+38	RT	1	1
	58A+65	RT	1	1
	62A+00	RT	1	1
	66A+50	RT	1	1
	70A+00	RT	1	1
	73A+76	RT	1	1
	73A+84	RT	1	1
	76A+58	RT	1	1
	76A+24.7	RT	1	1
	75A+68.5	RT	1	1
	80A+50	RT	1	1
	21C+63	LT	1	1
	21C+63	RT	1	1
		STAGE 2A SUBTOTALS	14	14
2C				
	80A+50	LT	1	1
		STAGE 2C SUBTOTALS	1	1
	Undistributed		4	4
		UNDISTRIBUTED SUBTOTALS	4	4
PROJECT 9650-17-71			**41**	**35**

SILT FENCE

STAGE	STATION	-	STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF
1A						
	49A+00	-	53A+50	STH 47, RT	453	453
	69A+50	-	71A+50	STH 47, RT	200	200
	71A+75	-	72A+50	STH 47, RT	75	75
	72A+80	-	75A+60	STH 47,GO-AROUND-RD, RT	370	370
	76A+50	-	78A+22	STH 47, RT	172	172
	78A+55	-	81A+16	STH 47, RT	268	268
	81A+37	-	82A+86	STH 47, RT	156	156
	95E+50	-	96E+71	GO-AROUND RD	110	110
				STAGE 1A SUBTOTALS	1,804	1,804
1B						
	48A+63	-	51A+08	STH 47, LT	245	245
	53A+18	-	55A+85	STH 47, LT	280	280
	66A+50	-	67A+50	STH 47, LT	102	102
	69A+27	-	75A+88	STH 47, LT	627	627
	76A+76	-	83A+17	STH 47, LT	646	646
	38D+40	-	39D+00	STANDING PINES DR, LT/RT	126	126
				STAGE 1B SUBTOTALS	2,026	2,026
	Undistributed				200	200
				UNDISTRIBUTED SUBTOTALS	200	200
PROJECT 9650-17-71 TOTALS					**4,030**	**4,030**

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

EROSION CONTROL

STAGE	STATION	LOCATION	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH	628.7570 ROCK BAGS EACH
1A					
	74A+58	58' RT	--	--	15
	96E+71	GO-AROUND RD, LT	10	--	--
	38D+45	STANDING PINES DR, RT	10	--	--
	0TSA+75	STH 47, RT	10	--	--
	31TSA+00	STH 47, RT	10	--	--
	35TSA+00	STH 47, RT	10	--	--
		STAGE 1A SUBTOTAL	50	0	15
1B					
	48A+63	STH 47, LT	10	--	--
	48A+63	STH 47, RT	10	--	--
		STAGE 1B SUBTOTAL	20	0	0
1C					
	73A+90	STH 47, LT	--	5	0
		STAGE 1C SUBTOTAL	0	5	0
2A					
	68A+24	STH 47, DRIVEWAY, RT	--	2	0
	72A+66	STH 47, DRIVEWAY, RT	--	2	0
	74A+58	STH 47, RT	--	5	0
	76A+52	STH 47, RT	--	1	0
	78A+49	STH 47, DRIVEWAY, RT	--	2	0
	81A+26	STH 47, DRIVEWAY, RT	--	1	0
	83A+00	STH 47, RT	--	2	0
	21C+04	CAMPUS DR, LT	--	5	0
		STAGE 2A SUBTOTAL	0	20	0
		UNDISTRIBUTED	30	5	20
PROJECT 9650-17-71 TOTAL			**100**	**30**	**35**

ROUNDABOUT LANDSCAPE

STAGE	STATION	LOCATION	632.0201 SHRUBS (JUNIPERUS COMMUNIS 'EFFUSA') CG, #5 CONTAINER EACH	632.9101 LANDSCAPE PLANTING SURVEILLANCE AND CARE CYCLES EACH	(CAT0030) SPV.0165.01 STONE MULCH EPOXIED SF	SPV.0180.01 WOOD MULCH SY	SPV.0180.02 WEED BARRIER FABRIC SY	(CAT0030) SPV.0090.04 BRICK PAVERS MORTARED LF
2C								
		ROUNDABOUT	32	20	1,600	260	450	177
PROJECT 9650-17-71 TOTAL			**32**	**20**	**1,600**	**260**	**450**	**177**

EROSION CONTROL

STAGE	STATION	-	STATION	LOCATION	625.0100 TOPSOIL SY	628.2006 EROSION MAT URBAN CLASS I TYPE A SY	629.0210 FERTILIZER TYPE B CWT	630.0140 SEEDING MIXTURE NO. 40 LB	630.0130 SEEDING MIXTURE NO. 30 LB	631.0300 SOD WATER MGAL
1A										
	47A+25	-	54A+41	STH 47, RT	320	320	0.20	8.5	0.0	0.8
	55A+00	-	58A+48	STH 47, RT	180	180	0.11	4.8	0.0	0.4
	60A+00	-	65A+00	STH 47, RT	340	340	0.21	8.9	0.0	0.8
	69A+30	-	75A+00	STH 47, RT	330	330	0.21	8.9	0.0	0.8
	76A+50	-	84A+10	STH 47, RT	410	410	0.26	10.8	0.0	1.0
				STAGE 1A SUBTOTALS	1580	1580	1.00	42.0	0.0	3.9
1C										
	48A+63	-	49A+74	STH 47, LT	240	240	0.15	6.2	0.0	0.6
	49A+43	-	49A+74	STH 47, LT	20	20	0.01	0.0	0.3	0.0
	49A+79	-	53A+00	STH 47, LT	780	780	0.49	15.8	3.4	1.9
	53A+17	-	54A+69	STH 47, LT	300	300	0.19	5.5	1.6	0.7
	54A+69	-	60A+50	STH 47, LT	880	880	0.55	23.7	0.0	2.2
	54A+88	-	55A+67	STH 47, LT	50	50	0.03	0.0	0.8	0.1
	57A+35	-	60A+60	STH 47, LT	250	250	0.16	0.0	4.5	0.6
	62A+28	-	68A+98	STH 47, LT	1500	1500	0.95	26.2	9.4	3.7
	69A+30	-	72A+21	STH 47, LT	600	600	0.38	11.2	3.2	1.5
	72A+93	-	74A+63	STH 47, LT	110	110	0.07	0.0	1.9	0.3
	72A+93	-	75A+86	STH 47, LT	300	300	0.19	7.9	0.0	0.7
		73A+90		STH 47, LT	0	0	0.00	0.0	0.0	0.0
	76A+74	-	79A+00	STH 47, LT	160	160	0.10	0.0	2.7	0.4
	76A+74	-	83A+00	STH 47, LT	1780	1780	1.12	47.9	0.0	4.4
	38D+45	-	42D+41	STANDING PINES DR, RT	600	600	0.38	15.9	0.0	1.5
	38D+80	-	41D+41	STANDING PINES DR, LT	570	570	0.36	15.4	0.0	1.4
	90E+21	-	92E+50	DUQUAINE RD, RT	230	230	0.14	6.1	0.0	0.6
	90E+21	-	92E+50	DUQUAINE RD, LT	330	330	0.21	8.7	0.0	0.8
				STAGE 1C SUBTOTALS	8700	8700	5.48	190.5	27.8	21.7
2A										
	47A+26	-	54A+50	STH 47/CAMPUS DR, RT	1830	1830	1.15	49.4	0.0	4.6
	55A+22	-	60A+23	STH 47, RT	1610	1610	1.01	16.8	17.7	4.0
	60A+36	-	61A+05	STH 47, RT	280	280	0.18	2.8	3.1	0.7
	61A+25	-	62A+31	STH 47, RT	170	170	0.11	0.0	3.0	0.4
	61A+25	-	65A+88	STH 47, RT	790	790	0.50	21.1	0.0	2.0
	62A+41	-	65A+88	STH 47, RT	220	220	0.14	0.0	3.8	0.5
	66A+06	-	68A+07	STH 47, RT	290	290	0.18	4.5	2.2	0.7
	68A+41	-	71A+58	STH 47, RT	580	580	0.37	10.3	3.5	1.4
	71A+86	-	72A+47	STH 47, RT	150	150	0.09	2.9	0.7	0.4
	72A+83	-	75A+70	STH 47, RT	400	400	0.25	10.7	0.0	1.0
	72A+83	-	73A+19	STH 47, RT	30	30	0.02	0.0	0.5	0.1
	76A+39	-	78A+37	STH 47, RT	490	490	0.31	10.7	1.6	1.2
	78A+61	-	81A+14	STH 47, RT	700	700	0.44	14.5	2.8	1.7
	81A+41	-	82A+86	STH 47, RT	420	420	0.26	8.8	1.6	1.0
	83A+00	-	84A+15	STH 47, RT	100	100	0.06	2.6	0.0	0.2
	20C+26	-	21C+35	CAMPUS DR, LT	300	300	0.19	5.8	1.4	0.7
	21C+52	-	21C+73	CAMPUS DR, LT	40	40	0.03	0.5	0.3	0.1
	93E+43	-	95E+83	GO-AROUND RD, LT	370	370	0.23	6.2	2.5	0.9
	96E+02	-	96E+72	GO-AROUND RD, LT	100	100	0.06	1.9	0.4	0.2
	93E+50	-	94E+85	GO-AROUND RD, RT	280	280	0.18	7.6	0.0	0.7
	96E+21	-	96E+71	GO-AROUND RD, RT	70	70	0.04	1.7	0.0	0.2
				STAGE 2A SUBTOTALS	9220	9220	5.81	178.9	44.9	23.0
2B										
	72A+21	-	72A+93	STH 47, LT	160	160	0.10	3.0	0.8	0.4
				STAGE 2B SUBTOTALS	160	160	0.10	3.0	0.8	0.4
2C										
	79A+00	-	82A+86	STH 47, LT	1290	1290	0.81	28.5	4.2	3.2
				STAGE 2C SUBTOTALS	1290	1290	0.81	28.5	4.2	3.2
				Undistributed	4000	4000	2.80	57.0	22.0	8.0
PROJECT 9650-17-71 TOTALS					**24950**	**24950**	**16.0**	**500**	**100**	**60**

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

PERMANENT SIGNING

STAGE	STATION	OFFSET	SIGN NO.	SIGN CODE	SIGN SIZE IN x IN	634.0612 POSTS WOOD 4X6-INCH X 12-FT EACH	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	SIGN POST BOX-OUT	637.0620 SIGN FLAGS PERMANENT TYPE II 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	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	REMARKS
1A																		
	48A+76	RT	1-11	--	--	--	--	--	--	--	--	--	--	--	1	1	--	SPEED LIMIT 35 MPH
	51A+14	RT	1-14	--	--	--	--	--	--	--	--	--	--	--	1	1	--	MENOMINEE CO & RESERVATION, BUCKLE UP SYMBOL
	54A+90	RT	2-15	--	--	--	--	--	--	--	--	--	--	--	1	1	--	STOP
	58A+20	RT	2-18	--	--	--	--	--	--	--	--	--	--	--	1	1	--	SPEED LIMIT 35 MPH
	65A+15	RT	3-26	--	--	--	--	--	--	--	--	--	--	--	1	1	--	KESHENA UNINCORPORATED
	68A+45	LT	4-4	--	--	--	--	--	--	--	--	--	--	--	1	1	--	SPEED LIMIT 35 MPH
	69A+67	RT	4-8	--	--	--	--	--	--	--	--	--	--	--	1	1	--	SPEED LIMIT 35 MPH
	73A+83	RT	5-8	--	--	--	--	--	--	--	--	--	--	--	1	1	--	LANE ENDS AHEAD
	78A+95	LT	6-2	--	--	--	--	--	--	--	--	--	--	--	1	1	--	SPEED LIMIT 35 MPH
	80A+03	RT	6-6	--	--	--	--	--	--	--	--	--	--	--	1	1	--	SPEED LIMIT 35 MPH
	82A+42	RT	6-9	--	--	--	--	--	--	--	--	--	--	--	1	1	--	PEDESTRIAN CROSSING
	20C+62	RT	2-7	--	--	--	--	--	--	--	--	--	--	--	1	1	--	SCHOOL SPEED LIMIT 15 MPH
					STAGE 1A SUBTOTALS	0	0	0	0	0	0	0.00	0.00	0	12	12	0	
1C																		
	47A+66	LT	1-1	W11-1	30"X30"	--	--	1	--	--	--	--	6.25	--	--	--	--	BIKE CROSSING, MOUNTED ON SAME POST AS W16-1P
	47A+66	LT	1-1	W16-1P	24"X30"	--	--	--	--	--	--	5.00	--	--	--	--	--	SHARE THE ROAD, MOUNTED ON SAME POST AS W11-1
	48A+92	LT	1-3	W6-3	36"X36"	--	--	1	--	--	--	--	9.00	--	--	--	--	TWO-WAY TRAFFIC SYMBOL
	49A+42	LT	1-4	R3-17B	30"X36"	--	--	1	--	--	--	7.50	--	--	--	--	--	BIKE LANE ENDS
	50A+00	LT	1-5	I2-2	66"X15"	--	2	--	--	--	--	6.88	--	--	--	--	--	SHAWANO CO
	50A+94	LT	1-6	--	--	--	--	--	--	--	--	--	--	--	1	1	--	SHAWANO CO
	51A+20	LT	1-7	R5-1	30"X30"	--	--	1	--	--	--	6.25	--	--	--	--	--	DO NOT ENTER
	53A+52	LT	1-8	R5-1A	36"X24"	--	--	1	--	--	--	6.00	--	--	--	--	--	WRONG WAY, MOUNTED ON SAME POST AS W6-2
	53A+52	LT	1-9	W6-2	36"X36"	--	--	--	--	--	--	--	9.00	--	--	--	--	DIVIDED HIGHWAY SYMBOL, MOUNTED ON SAME POST AS R5-1A
	55A+18	LT	2-2	W11-2	30"X30"	--	--	--	1	--	--	--	6.25	--	--	--	--	PEDESTRIAN CROSSING, MOUNTED ON SAME POST AS W16-7L
	55A+18	LT	2-2	W16-7L	24"X12"	--	--	--	--	--	--	--	2.00	--	--	--	--	DIAGONAL ARROW, MOUNTED ON SAME POST AS W11-2
	55A+56	LT	2-3	R7-7R	18"X24"	--	1	--	--	--	--	3.00	--	--	--	--	--	NO PARKING BUS STOP MOUNTED ON SAME POST AS W11-2 & W16-7L
	57A+40	LT	2-4	R7-7L	18"X24"	--	1	--	--	--	--	3.00	--	--	--	--	--	NO PARKING BUS STOP
	57A+68	LT	2-5	R3-20L	24"X36"	--	--	1	--	--	--	6.00	--	--	--	--	--	BEGIN LEFT TURN LANE (ARROW)
	59A+20	LT	2-6	M3-3	24"X12"	--	--	--	1	--	--	2.00	--	--	--	--	--	SOUTH MOUNTED ON SAME POST AS M1-6 & M1-6
	59A+20	LT	2-6	M1-6	24"X24"	--	--	--	--	--	--	4.00	--	--	--	--	--	STH 47 MOUNTED ON SAME POST AS M3-3 & M1-6
	59A+20	LT	2-6	M1-6	24"X24"	--	--	--	--	--	--	4.00	--	--	--	--	--	STH 55 MOUNTED ON SAME POST AS M3-3 & M1-6
	60A+21	LT	3-1	W11-2	30"X30"	--	--	--	1	--	--	--	6.25	--	--	--	--	PEDESTRIAN CROSSING, MOUNTED ON SAME POST AS W16-7L
	60A+21	LT	3-1	W16-7L	24"X12"	--	--	--	--	--	--	--	2.00	--	--	--	--	DIAGONAL ARROW, MOUNTED ON SAME POST AS W11-2
	60A+42	LT	3-2	D1-2	72"X30"	--	2	--	--	2	--	15.00	--	--	--	--	--	SOUTH, STH 47, SOUTH, STH 55 WITH DIRECTIONAL ARROW
	60A+48	LT	3-15	R1-2	36"X31"	--	--	--	1	1	2	3.88	--	--	--	--	--	YIELD, MOUNTED ON SAME POST AS R6-2R
	60A+48	LT	3-15	R6-2R	24"X30"	--	--	--	--	--	--	5.00	--	--	--	--	--	ONE WAY, MOUNTED ON SAME POST AS R1-2
	61A+41	LT	3-7	--	--	--	--	--	--	--	--	--	--	--	--	1	1	STOP
	62A+12	LT	3-21	D1-2	72"X30"	--	2	--	--	2	--	15.00	--	--	--	--	--	NORTH, STH 47, NORTH, STH 55 WITH DIRECTIONAL ARROW
	62A+27	LT	3-11	R1-2	36"X31"	--	--	--	1	1	2	3.88	--	--	--	--	--	YIELD, MOUNTED ON SAME POST AS R6-2R
	62A+27	LT	3-11	R6-2R	24"X30"	--	--	--	--	--	--	5.00	--	--	--	--	--	ONE WAY, MOUNTED ON SAME POST AS R1-2
	62A+34	LT	3-10	R1-2	36"X31"	--	--	1	--	1	2	3.88	--	--	--	--	--	YIELD, MOUNTED ON SAME POST AS R15-4
	62A+34	LT	3-10	R15-4	24"X15"	--	--	--	--	--	--	2.50	--	--	--	--	--	TO TRAFFIC FROM LEFT, MOUNTED ON SAME POST AS R1-2
	62A+61	LT	3-23	W11-2	30"X30"	--	--	1	--	1	--	--	6.25	--	--	--	--	PEDESTRIAN CROSSING, MOUNTED ON SAME POST AS W16-7L
	62A+61	LT	3-23	W16-7L	24"X12"	--	--	--	--	--	--	--	2.00	--	--	--	--	DIAGONAL ARROW, MOUNTED ON SAME POST AS W11-2
	62A+78	LT	3-24	W11-2	30"X30"	--	--	--	1	--	--	--	6.25	--	--	--	--	PEDESTRIAN CROSSING, MOUNTED ON SAME POST AS W16-7L
					SHEET SUBTOTALS	0	8	8	6	8	6	107.77	55.25	0	14	14	0	

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PERMANENT SIGNING

STAGE	STATION	OFFSET	SIGN NO.	SIGN CODE	SIGN SIZE IN x IN	634.0612 POSTS WOOD 4X6-INCH X 12-FT EACH	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	SIGN POST BOX-OUT	637.0620 SIGN FLAGS PERMANENT TYPE II 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	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	REMARKS
1C																		
	62A+78	LT	3-24	W16-7L	24"X12"	--	--	--	--	--	--	--	2.00	--	--	--	--	DIAGONAL ARROW, MOUNTED ON SAME POST AS W11-2
	63A+02	LT	3-12	W12-1D	24"X24"	1	--	--	--	1	--	--	4.00	--	--	--	--	DOUBLE DIAGONAL ARROW
	64A+84	LT	3-13	R3-8DD	36"X30"	--	--	1	--	--	--	7.50	--	--	--	--	--	LANE CONTROL FOR ROUNDABOUT
	65A+09	LT	3-27	R4-7	24"X30"	--	1	--	--	--	--	5.00	--	--	--	--	--	KEEP RIGHT SYMBOL
	65A+63	LT	4-1	--	--	--	--	--	--	--	--	--	--	--	1	1	--	LANE ENDS AHEAD
	67A+00	LT	4-3	W2-6	30"X30"	--	--	--	1	--	--	--	6.25	--	--	--	--	ROUNDABOUT AHEAD SYMBOL, MOUNTED ON SAME POST AS W13-1
	67A+00	LT	4-3	W13-1	18"X18"	--	--	--	--	--	--	--	2.25	--	--	--	--	15 MPH, MOUNTED ON SAME POST AS W2-6
	74A+10	LT	5-2	--	--	--	--	--	--	--	--	--	--	--	1	1	--	HISTORICAL MARKER 1/2 MILE
	74A+60	LT	5-3	R7-7R	18"X24"	--	1	--	--	--	--	3.00	--	--	--	--	--	NO PARKING BUS STOP
	75A+20	LT	5-4	D5-63	60"X36"	--	--	1	--	--	--	15.00	--	--	--	--	--	HISTORICAL MARKER 1/2 MILE
	75A+80	LT	5-5	R7-7L	18"X24"	--	1	--	--	--	--	3.00	--	--	--	--	--	NO PARKING BUS STOP
	75A+94	LT	5-6	R1-1	30"X30"	--	1	--	--	--	--	5.18	--	--	1	1	--	STOP
	78A+43	LT	6-1	R2-1	24"X30"	--	1	--	--	--	--	5.00	--	--	--	--	--	SPEED LIMIT 35 MPH
	78A+78	LT	6-12	--	--	--	--	--	--	--	--	--	--	--	1	1	--	PEDESTRIAN CROSSING
	82A+97	LT	6-3	W11-2	30"X30"	--	--	1	--	--	--	--	6.25	--	--	--	--	PEDESTRIAN CROSSING, MOUNTED ON SAME POST AS W16-7L
	82A+97	LT	6-3	W16-7L	24"X12"	--	--	--	--	--	--	--	2.00	--	--	--	--	DIAGONAL ARROW, MOUNTED ON SAME POST AS W11-2
	85A+00	LT	6-13	W6-1	36"X36"	--	--	1	--	--	--	--	9.00	--	--	--		DIVIDED HIGHWAY SYMBOL
	11B+67	LT	3-18	R6-1R	36"X12"	--	2	--	--	--	--	3.00	--	--	--	--	--	ONE WAY, MOUNTED ON SAME POST AS R6-4B
	11B+67	LT	3-18	R6-4B	60"X24"	--	--	--	--	--	--	10.00	--	--	--	--	--	CHEVRON FOR ROUNDABOUT, MOUNTED ON SAME POST AS R6-1R
	12B+77	LT	3-19	R6-1R	36"X12"	--	2	--	--	--	--	3.00	--	--	--	--	--	ONE WAY, MOUNTED ON SAME POST AS R6-4B
	12B+77	LT	3-19	R6-4B	60"X24"	--	--	--	--	--	--	10.00	--	--	--	--	--	CHEVRON FOR ROUNDABOUT, MOUNTED ON SAME POST AS R6-1R
	14B+24	LT	3-20	R6-1R	36"X12"	--	2	--	--	--	--	3.00	--	--	--	--	--	ONE WAY, MOUNTED ON SAME POST AS R6-4B
	14B+24	LT	3-20	R6-4B	60"X24"	--	--	--	--	--	--	10.00	--	--	--	--	--	CHEVRON FOR ROUNDABOUT, MOUNTED ON SAME POST AS R6-1R
	39D+08	RT	7-1	W2-6	30"X30"	--	--	--	1	--	--	--	6.25	--	--	--	--	ROUNDABOUT AHEAD SYMBOL, MOUNTED ON SAME POST AS W13-1
	39D+08	RT	7-1	W13-1	18"X18"	--	--	--	--	1	--	--	2.25	--	--	--	--	15 MPH, MOUNTED ON SAME POST AS W2-6
	40D+49	LT	7-2	R4-7	24"X30"	--	1	--	--	--	--	5.00	--	--	--	--	--	KEEP RIGHT SYMBOL
	41D+65	LT	3-5	W11-2	30"X30"	--	--	--	1	--	--	--	6.25	--	--	--	--	PEDESTRIAN CROSSING, MOUNTED ON SAME POST AS W16-7L
	41D+65	LT	3-5	W16-7L	24"X12"	--	--	--	--	--	--	--	2.00	--	--	--	--	DIAGONAL ARROW, MOUNTED ON SAME POST AS W11-2
	41D+67	RT	3-6	W11-2	30"X30"	--	--	1	--	--	--	--	6.25	--	--	--	--	PEDESTRIAN CROSSING, MOUNTED ON SAME POST AS W16-7L
	41D+67	RT	3-6	W16-7L	24"X12"	--	--	--	--	--	--	--	2.00	--	--	--	--	DIAGONAL ARROW, MOUNTED ON SAME POST AS W11-2
	41D+80	LT	3-9	R1-2	36"X31"	--	--	1	--	--	2	3.88	--	--	--	--	--	YIELD
	41D+93	LT	3-8	D1-1	84"X15"	--	2	--	--	2	--	8.75	--	--	--	--	--	STANDING PINES DR WITH DIRECTIONAL ARROW
	42D+00	LT	3-4	R1-2	36"X31"	--	--	--	1	--	2	3.88	--	--	--	--	--	YIELD, MOUNTED ON SAME POST AS R6-2R
	42D+00	LT	3-4	R6-2R	24"X30"	--	--	--	--	--	--	5.00	--	--	--	--	--	ONE WAY, MOUNTED ON SAME POST AS R6-4B
	42D+16	RT	3-3	R1-2	36"X31"	--	--	1	--	1	2	3.88	--	--	--	--	--	YIELD, MOUNTED ON SAME POST AS R15-4
	42D+16	RT	3-3	R15-4	24"X15"	--	--	--	--	--	--	2.50	--	--	--	--	--	TO TRAFFIC FROM LEFT, MOUNTED ON SAME POST AS R1-2
					STAGE 1C SUBTOTALS	1	22	15	10	13	12	223.34	112.00	0	6	6	0	
2A										--								
	47A+00	RT	1-2	W6-1	36"X36"	--	--	1	--	--	--	--	9.00	--	--	--	--	DIVIDED HIGHWAY SYMBOL
	48A+07	RT	1-10	R3-17A	30"X36"	--	--	1	--	--	--	7.50	--	--	--	--	--	BIKE LANE AHEAD
	48A+86	RT	1-12	R2-1	24"X30"	--	--	1	--	--	--	5.00	--	--	--	--	--	SPEED LIMIT 35 MPH
	51A+09	RT	1-13	I2-2R	72"X24"	--	2	--	--	--	--	12.00	--	--	--	--	--	MENOMINEE CO & RESERVATION
	51A+44	RT	1-15	R4-4	36"X30"	--	1	--	--	--	--	7.50	--	--	--	--	--	BEGIN RIGHT TURN LANE, DIRECTIONAL ARROW, YIELD TO BIKES
	52A+14	RT	1-16	--	--	--	--	--	--	--	--	--	--	1	--	--	1	MENOMINEE TRIBAL GAMBLING
	55A+34	RT	2-16	W11-2	30"X30"	--	--	--	1	--	--	--	6.25	--	--	--	--	PEDESTRIAN CROSSING, MOUNTED ON SAME POST AS W16-7L
	55A+34	RT	2-16	W16-7L	24"X12"	--	--	--	--	--	--	--	2.00	--	--	--	--	DIAGONAL ARROW, MOUNTED ON SAME POST AS W11-2
	56A+34	RT	2-17	W2-6	30"X30"	--	--	1	--	--	--	--	6.25	--	--	--	--	ROUNDABOUT AHEAD SYMBOL, MOUNTED ON SAME POST AS W13-1
	56A+34	RT	2-17	W13-1	18"X18"	--	--	--	--	--	--	--	2.25	--	--	--	--	15 MPH, MOUNTED ON SAME POST AS W2-6
	59A+00	RT	2-19	R3-8JJ	36"X30"	--	1	--	--	--	--	--	7.50	--	--	--	--	LANE CONTROL FOR ROUNDABOUTS
	60A+22	RT	3-14	W11-2	30"X30"	--	--	1	--	--	--	--	6.25	--	--	--	--	PEDESTRIAN CROSSING, MOUNTED ON SAME POST AS W16-7L
	60A+22	RT	3-14	W16-7L	24"X12"	--	--	--	--	--	--	--	2.00	--	--	--	--	DIAGONAL ARROW, MOUNTED ON SAME POST AS W11-2
					SHEET SUBTOTALS	**1**	**18**	**12**	**5**	**5**	**6**	**147.57**	**98.25**	**1**	**4**	**4**	**1**	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

PERMANENT SIGNING

STAGE	STATION	OFFSET	SIGN NO.	SIGN CODE	SIGN SIZE IN x IN	634.0612 POSTS WOOD 4X6-INCH X 12-FT EACH	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	SIGN POST BOX-OUT	637.0620 SIGN FLAGS PERMANENT TYPE II 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	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	REMARKS
2A																		
	60A+93	RT	3-16	R1-2	36"X31"	--	--	1	--	--	2	3.88	--	--	--	--	--	YIELD, MOUNTED ON SAME POST AS R6-2R
	60A+93	RT	3-16	R15-4	24"X15"	--	--	--	--	--	--	2.50	--	--	--	--	--	TO TRAFFIC FROM LEFT, MOUNTED ON SAME POST AS R1-2
	61A+15	RT	3-17	R11-2	48"X30"	--	--	--	--	--	--	10.00	--	--	--	--	--	GATE CLOSED, MOUNTED ON PIPE GATE WITH 3 BRACKET BANDS
	62A+31	RT	3-22	W11-2	30"X30"	--	--	--	1	--	--	--	6.25	--	--	--	--	PEDESTRIAN CROSSING, MOUNTED ON SAME POST AS W16-7L
	62A+31	RT	3-22	W16-7L	24"X12"	--	--	--	--	--	--	--	2.00	--	--	--	--	DIAGONAL ARROW, MOUNTED ON SAME POST AS W11-2
	64A+13	RT	3-25	I2-3	54"X24"	--	1	--	--	--	--	9.00	--	--	--	--	--	KESHENA, UNINCORPORATED
	65A+60	RT	4-5	R3-9D	24"X6"	--	--	1	--	--	--	1.00	--	--	--	--	--	BEGIN, MOUNTED ON SAME POST AS R3-9B
	65A+60	RT	4-5	R3-9B	24"X36"	--	--	--	--	--	--	6.00	--	--	--	--	--	CENTER TURN LANE WITH ARROWS, MOUNTED ON SAME POST AS R3-9C
	65A+80	RT	4-2	R3-9D	24"X6"	--	1	--	--	--	--	5.00	--	--	--	--	--	END, MOUNTED ON SAME POST AS R3-9B
	65A+80	RT	4-2	R3-9B	24"X36"	--	--	--	--	--	--	1.00	--	--	--	--	--	CENTER LANE ENDS, MOUNTED ON SAME POST AS R3-9D
	67A+09	RT	4-6	J4-2	48"X36"	--	--	2	--	--	--	12.00	--	--	--	--	--	NORTH, STH 47, NORTH, STH 55
	69A+00	RT	4-7	R2-1	24"X30"	--	1	--	--	--	--	5.00	--	--	--	--	--	SPEED LIMIT 35 MPH
	73A+22	RT	5-7	R4-4	36"X30"	--	--	--	1	--	--	7.50	--	--	--	--	--	BEGIN RIGHT TURN LANE, YIELD TO BIKES
	78A+00	RT	6-4	W6-2	36"X36"	--	--	1	--	--	--	--	9.00	--	--	--	--	DIVIDED HIGHWAY SYMBOL
	79A+00	RT	6-5	R3-9D	24"X6"	--	--	1	--	--	--	1.00	--	--	--	--	--	BEGIN, MOUNTED ON SAME POST AS R3-9B
	79A+00	RT	6-5	R3-9B	24"X36"	--	--	--	--	--	--	6.00	--	--	--	--	--	CENTER TURN LANE WITH ARROWS, MOUNTED ON SAME POST AS R3-9C
	79A+00	LT	6-5A	R3-9C	6"X24"	--	--	1	--	--	--	1.00	--	--	--	--	--	BEGIN, MOUNTED ON SAME POST AS R3-9B
	79A+00	LT	6-5A	R3-9B	24"X36"	--	--	--	--	--	--	6.00	--	--	--	--	--	DIVIDED HIGHWAY SYMBOL, MOUNTED ON SAME POST AS R3-9C
	80A+00	RT	6-7	R2-1	24"X30"	--	1	--	--	--	--	5.00	--	--	--	--	--	SPEED LIMIT 35 MPH
	82A+00	RT	6-8	R3-17B	30"X36"	--	--	1	--	--	--	7.50	--	--	--	--	--	BIKE LANE ENDS
	82A+84	RT	6-10	W11-2	30"X30"	--	--	--	1	--	--	--	6.25	--	--	--	--	PEDESTRIAN CROSSING, MOUNTED ON SAME POST AS W16-7L
	82A+84	RT	6-10	W16-7L	24"X12"	--	--	--	--	--	--	--	2.00	--	--	--	--	DIAGONAL ARROW, MOUNTED ON SAME POST AS W11-2
	84A+20	RT	6-14	W6-3	36"X36"	--	--	1	--	--	--	--	9.00	--	--	--	--	TWO-WAY TRAFFIC SYMBOL
	85A+20	RT	6-15	W11-1	30"X30"	--	--	1	--	--	--	--	6.25	--	--	--	--	BIKE CROSSING, MOUNTED ON SAME POST AS W16-1P
	85A+20	RT	6-15	W16-1P	24"X30"	--	--	--	--	--	--	5.00	--	--	--	--	--	SHARE THE ROAD, MOUNTED ON SAME POST AS W11-1
	20C+53	LT	2-14	R1-1	30"X30"	--	1	--	--	--	--	5.18	--	--	--	--	--	STOP
	20C+70	RT	2-8	S1-1	36"X36"	--	--	1	--	--	--	--	6.75	--	--	--	--	SCHOOL ZONE SYMBOL, MOUNTED ON SAME POST AS W16-9P
	20C+70	RT	2-8	W16-9P	24"X8"	--	--	--	--	--	--	--	1.33	--	--	--	--	AHEAD, MOUNTED ON SAME POST AS S1-1
	20C+70	RT	2-8	R2-6P	24"X18"	--	--	--	--	--	--	3.00	--	--	--	--	--	FINES HIGHER, MOUNTED ON SAME POST AS S1-1
	21C+05	RT	2-10	S4-51	24"X48"	--	--	1	--	--	--	6.62	1.38	--	--	--	--	SCHOOL SPEED LIMIT 15 WHEN CHILDREN ARE PRESENT
	21C+10	LT	2-13	S5-2	24"X30"	--	1	--	--	--	--	5.00	--	--	--	--	--	END SCHOOL ZONE
	20C+78	RT	2-9	--	--	--	--	--	--	--	--	--	--	--	1	1	--	SCHOOL ZONE AHEAD SYMBOL
	21C+85	RT	2-12	--	--	--	--	--	--	--	--	--	--	--	1	1	--	PEDESTRIAN CROSSING
	21C+86	RT	2-11	S1-1	36"X36"	--	--	1	--	--	--	--	6.75	--	--	--	--	SCHOOL ZONE SYMBOL, MOUNTED ON SAME POST AS W16-7L
	21C+86	RT	2-11	W16-7L	24"X12"	--	--	--	--	--	--	--	2.00	--	--	1	1	--	ARROW, MOUNTED ON SAME POST AS S1-1
	93E+55	LT	5-11	--	--	--	--	--	--	--	--	--	--	--	--	1	1	--	STOP
	93E+60	LT	5-12	R1-1	30"X30"	--	--	1	--	--	--	5.18	--	--	--	--	--	--	STOP
	94E+43	RT	5-9	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	SPEED LIMIT 25MPH, DO NOT PASS
	94E+43	RT	5-9	--	--	--	--	--	--	--	--	--	--	1	--	--	1	AXLE WEIGHT LIMIT, MOVE NEXT TO R2-1/R4-1
	94E+43	RT	5-10	R2-1	24"X30"	--	--	1	--	--	--	5.00	--	--	--	--	--	--	SPEED LIMIT 25 MPH
	94E+73	LT	5-14	W11-2	30"X30"	--	--	1	--	--	--	--	6.25	--	--	--	--	--	PEDESTRIAN CROSSING
	94E+55	LT	5-13	--	--	--	--	--	--	--	--	--	--	--	--	1	1	--	PEDESTRIAN CROSSING
				STAGE 2A SUBTOTALS		0	10	21	4	0	2	156.36	106.71	2	6	5	2	
2B																		
	53A+54	LT	1-17	R4-7	24"X30"	--	1	--	--	1	--	5.00	--	--	--	--	--	KEEP RIGHT SYMBOL
	54A+33	LT	2-1	R4-7	24"X30"	1	--	--	--	1	--	5.00	--	--	--	--	--	KEEP RIGHT SYMBOL
	72A+32	LT	5-1	--	--	--	--	--	--	--	--	--	--	--	1	1	--	STOP
	78A+78	LT	6-11	R3-17	24"X30"	--	--	1	--	--	--	5.00	--	--	--	--	--	BIKE LANE
	78A+78	LT	6-11	R3-17A	12"X30"	--	--	--	--	--	--	2.50	--	--	--	--	--	BIKE LANE AHEAD
				STAGE 2B SUBTOTALS		1	1	1	0	2	0	17.50	0.00	0	1	1	0	
PROJECT 9650-17-71 TOTAL						**2**	**37**	**42**	**15**	**15**	**30**	**429.20**	**260.21**	**3**	**25**	**24**	**3**	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

TEMPORARY PEDESTRIAN ACCESS

STAGE	STA. - STA.	LOCATION	644.1410.S TEMPORARY PEDESTRIAN SURFACE ASPHALT SF	644.1601.S TEMPORARY CURB RAMP EACH	644.1616.S TEMPORARY PEDESTRIAN SAFETY FENCE LF
1A-1C					
	0TSW+00.00 - 19TSW+77.38	TEMPORARY WALK	8920	9	1780
		STAGE 1A-1C TOTAL	8920	9	1780
2A					
	93E+46 - 96E+72	GO-AROUND RD, LT	--	--	616
		STAGE 2A TOTAL	0	0	616
PROJECT 9650-17-71 TOTAL			**8920**	**9**	**2396**

FIELD OFFICE

PROJECT	642.5001 TYPE B EACH
9650-17-71	1
PROJECT 9650-17-71 TOTAL	1

TRAFFIC CONTROL

PROJECT	643.0100 TRAFFIC CONTRO 9650-17-71 EACH
9650-17-71	1
PROJECT 9650-17-71 TOTAL	1

TRAFFIC CONTROL

LOCATION	DAYS IN SERVICE	643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE NO.	SF
PROJECT LIMITS	7	2	32
PROJECT 9650-17-71 TOTAL			**64**

TRAFFIC CONTROL

LOCATION	DAYS IN SERVICE	643.0300 TRAFFIC CONTROL DRUMS NO.	DAY	643.0420 TRAFFIC CONTROL BARRICADES TYPE III NO.	DAY	643.0500 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS EACH	643.0600 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES EACH	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A NO.	DAY	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C NO.	DAY	643.0900 TRAFFIC CONTROL SIGNS NO.	DAY	643.1070 TRAFFIC CONTROL CONES 42-INCH NO.	DAY
STAGE 1A	10	82	820	16	160	0	0	25	250	6	60	24	240	0	0
SUB TOTAL		82	820	16	160	0	0	25	250	6	60	24	240	0	0
STAGE 1B	7	123	861	14	98	87	87	19	133	15	105	24	168	0	0
SUB TOTAL		123	861	14	98	87	87	19	133	15	105	24	168	0	0
STAGE 1C	75	120	9,000	40	3,000	80	80	36	2,700	23	1,725	30	2,250	0	0
SUB TOTAL		120	9,000	40	3,000	80	80	36	2,700	23	1,725	30	2,250	0	0
STAGE 2A	43	60	2,580	31	1,333	62	62	31	1,333	8	344	26	1,118	123	5,289
SUB TOTAL		60	2,580	31	1,333	76	76	31	1,333	8	344	26	1,118	123	5,289
STAGE 2B	12	148	1,776	0	0	5	5	0	0	0	0	19	228	0	0
SUB TOTAL		148	1,776	0	0	5	5	0	0	0	0	19	228	0	0
STAGE 2C	16	148	2,368	0	0	0	0	0	0	0	0	18	288	0	0
SUB TOTAL		148	2,368	0	0	0	0	0	0	0	0	18	288	0	0
UNDISTRIBUTED			195		109	12	12		84		16		58		111
PROJECT 9650-17-71 TOTAL		**681**	**17,600**	**101**	**4,700**	**260**	**260**	**111**	**4,500**	**52**	**2,250**	**141**	**4,350**	**123**	**5,400**

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TRAFFIC CONTROL COVERING SIGNS

STAGE	STATION	SIGN DETAIL NUMBER	PLAN SHEET	SIGN COVERED	NO. OF COVERING CYCLES	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II EACH
1C						
	57A+68, LT	R3-20L	2	BEGIN LEFT TURN LANE	1	1
				STAGE 1C SUBTOTAL		1
2A						
	48A+76, RT	R2-1	1	SPEED LIMIT 35	1	1
	59A+01, RT	R3-8JJ	2	LANE CONTROL FOR ROUNDABOUT	1	1
	69A+01, RT	R2-1	4	SPEED LIMIT 35	1	1
	80A+03, RT	R2-1	6	SPEED LIMIT 35	1	1
				STAGE 2A SUBTOTAL		4
PROJECT 9650-17-71 TOTAL						**5**

SIGN MONUMENT

STAGE	STATION	LOCATION	(CAT. 0030) SPV.0105.01 SIGN MONUMENT LS
2C			
		Project	1
PROJECT 9650-17-71 TOTAL			**1**

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	649.0120 TEMPORARY MARKING LINE EPOXY 4-INCH WHITE LF	649.0120 TEMPORARY MARKING LINE EPOXY 4-INCH YELLOW LF	649.0850 TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH LF	646.9000 MARKING REMOVAL LINE 4-INCH LF
1A										
	00TSW+00.00	-	19TSW+77.38	TEMPORARY SIDEWALK CROSSWALKS	--	--	596	--	--	--
	45A+07	-	53A+85	STH 47, EDGELINE	0	0	878	0	--	--
	55A+23	-	75A+51	STH 47, EDGELINE	0	0	2,009	0	--	--
	76A+41	-	86A+56	STH 47, EDGELINE	0	0	1,017	0	--	--
				STAGE 1A SUBTOTAL	0		4,500		0	0
1B										
	45A+45	-	48A+69	STH 47, EDGELINE	450	415	--	--	--	--
	46A+60	-	48A+67	STH 47, CENTERLINE	--	--	--	--	--	204
	48A+69	-	72A+40	STH 47, EDGELINE, CENTERLINE	252	--	3,756	3,764	--	--
	57A+50	-	70A+50	STH 47, CENTERLINE	--	--	--	--	--	2,558
	59A+50	-	75A+50	STH 47, SKIPS	--	--	--	--	--	400
	61A+50	-	61A+80	STANDING PINES DR STOP BAR	--	--	--	--	30	--
	72A+40	-	72A+74	STH 47, EDGELINE, CENTERLINE	--	--	34	68	--	13
	72A+74	-	75A+45	STH 47, EDGELINE, CENTERLINE	--	--	542	542	--	63
	75A+45	-	77A+42	STH 47, CASINO ENTRANCE, EDGELINE	260	--	--	--	--	--
	76A+45	-	83A+00	STH 47, EDGELINE, CENTERLINE	--	--	1,310	1,310	--	--
	83A+00	-	84A+34	STH 47, EDGELINE, CENTERLINE	270	260	--	--	--	
	83A+15	-	83A+35	DODGE RD STOP BAR	--	--	--	--	20	--
		20C+60		CAMPUS DR STOP BAR	--	--	--	--	15	--
		93E+32		GO-AROUND RD STOP BAR	--	--	--	--	25	--
				STAGE 1B SUBTOTAL	1,907		11,326		90	3,237
1C										
	72A+20	-	72A+60	CASINO ENTRANCE STOP BAR	--	--	--	--	40	--
				STAGE 1C SUBTOTAL	0		0		40	0
2A										
	46A+45	-	54A+32	STH 47, EDGELINE, RT	795	--	--	--	--	--
	48A+67	-	49A+43	STH 47, EDGELINE, LT	75	--	--	--	--	--
	47A+09	-	54A+58	STH 47, CENTERLINE	--	1,495	--	--	--	--
	54A+96	-	86A+17	STH 47, EDGELINE, RT	3,125	--	--	--	--	--
	55A+07	-	58A+25	STH 47, CENTERLINE	--	570	--	--	--	--
	55A+72	-	57A+30	STH 47, EDGELINE, LT	--	151	--	--	--	--
	64A+68	-	75A+63	STH 47, CENTERLINE	--	2,146	--	--	--	--
		76A+52		STH 47, TEMP CROSSWALK	117	--	--	--	--	--
	77A+03	-	82A+95	STH 47, CENTERLINE	--	1,184	--	--	--	--
	79A+02	-	83A+13	STH 47, EDGELINE, LT	411	--	--	--	--	--
		82A+89		STH 47, TEMP CROSSWALK	117	--	--	--	--	--
	83A+43	-	85A+29	STH 47, EDGELINE, LT	186	--	--	--	--	--
	83A+25	-	85A+66	STH 47, CENTERLINE	--	216	--	--	--	--
	83A+13	-	83A+27	DODGE RD STOP BAR	--	--	--	--	14	--
				STAGE 2A SUBTOTAL	10,588		0		14	0
2B										
	48A+85	-	54A+62	STH 47, CENTERLINE	--	1,180	--	--	--	--
	54A+66	-	59A+12	STH 47, CENTERLINE	--	766	--	--	--	--
				STAGE 2B SUBTOTAL	1,946		0		0	0
PROJECT 9650-17-71 TOTAL					**14,441**		**15,826**		**144**	**3,237**

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

PAVEMENT MARKING ITEMS

STATION	-	STATION	ALIGNMENT	TYPE	646.1020 MARKING LINE EPOXY 4-INCH YELLOW LF	646.1020 MARKING LINE EPOXY 4-INCH WHITE LF	646.3020 MARKING LINE EPOXY 8-INCH WHITE LF	646.6320 MARKING DOTTED EXTENSION EPOXY 18-INCH WHITE LF	646.8120 MARKING CURB EPOXY YELLOW LF	646.6120 MARKING STOP LINE EPOXY 18-INCH WHITE LF	646.7120 MARKING DIAGONAL EPOXY 12-INCH YELLOW LF	646.7420 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH WHITE LF	646.7520 MARKING CROSSWALK EPOXY LADDER PATTERN 24-INCH WHITE LF
45+00	-	47+25	A	CENTERLINE (DOUBLE SOLID)	450	--	--	--	--	--	--	--	--
47+25	-	50+37	A	EDGELINE, CENTERLINE(SOLID & DOUBLE SOLID)	625	625	--	--	--	--	--	--	--
50+37	-	54+40	A	EDGELINE (SOLID & DASHED), CENTERLINE (SOLID & DOUBLE SOLID)	1,395	650	140	--	49	--	135	--	--
54+40	-	60+65	A	EDGELINE (SOLID & DASHED), CENTERLINE (SOLID)	1,030	905	263	--	18	--	--	82	209
10+00	-	11+51	B	EDGELINE (SOLID)	--	--	140	--	--	--	--	--	--
11+60	-	12+19	B	EDGELINE (DASHED)	--	--	--	44	--	--	--	--	--
12+24	-	12+60	B	EDGELINE (SOLID)	--	--	37	--	--	--	--	--	--
12+60	-	12+93	B	EDGELINE (DASHED)	--	--	--	20	--	--	--	--	--
13+40	-	13+85	B	EDGELINE (SOLID)	--	--	45	--	--	--	--	--	--
13+85	-	14+53	B	EDGELINE (DASHED)	--	--	12	22	--	--	--	--	--
20+33			C	STOP LINE	--	--	--	--	--	30	--	--	--
61+91	-	65+20	A	EDGELINE (SOLID & DASHED), CENTERLINE (SOLID)	663	225	316	--	58	--	--	98	--
65+20	-	75+65	A	EDGELINE, CENTERLINE (SOLID & DASHED)	2,613	1,756	125	--	--	--	--	--	--
76+64	-	79+00	A	EDGELINE, CENTERLINE (SOLID & DASHED)	590	352	--	--	--	--	--	--	--
79+00	-	81+87	A	EDGELINE, CENTERLINE (SOLID & DOUBLE SOLID)	1,148	574	--	--	--	--	100	--	--
81+87	-	86+00	A	EDGELINE, CENTERLINE (SOLID & DOUBLE SOLID)	826	216	--	--	--	--	--	--	121
38+84	-	42+08	D	CENTERLINE (SOLID)	605	--	27	--	10	--	--	76	--
92+40			E	STOP LINE	--	--	--	--	--	17	--	--	--
92+44	-	92+50	E	CROSSWALK	--	--	--	--	--	--	--	165	--
93+37	-	93+43	E	CROSSWALK	--	--	--	--	--	--	--	162	--
93+47			E	STOP LINE	--	--	--	--	--	18	--	--	--
PROJECT 9650-17-71 TOTALS					**15,247**		**1,105**	**86**	**135**	**65**	**235**	**583**	**330**

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

PAVEMENT MARKING ITEMS

STATION	RT/LT	LOCATION	646.5020 MARKING ARROWS EPOXY TYPE 1 WHITE EACH	646.5020 MARKING ARROWS EPOXY TYPE 2R WHITE EACH	646.5020 MARKING ARROWS EPOXY TYPE 2 WHITE EACH	646.5020 MARKING ARROWS EPOXY TYPE 3R WHITE EACH	646.5020 MARKING ARROWS BIKE LANE EPOXY WHITE EACH	646.5220 MARKING SYMBOLS EPOXY WHITE EACH	646.5120 MARKING WORDS EPOXY WHITE EACH	646.8220 MARKING ISLAND NOSE EPOXY YELLOW EACH
49A+63	RT	STH 47, NB	--	--	--	--	--	1	--	--
49A+76	RT	STH 47, NB	--	--	--	--	1	--	--	--
53A+08	RT	STH 47, NB	--	--	--	--	--	--	1	--
53A+14	RT	STH 47, NB	--	--	1	--	--	--	--	--
53A+35	RT	STH 47, NB	--	--	--	--	--	1	--	--
53A+48	RT	STH 47, NB	--	--	--	--	1	--	--	--
53A+66	RT	STH 47, NB	--	--	1	--	--	--	--	--
54A+35	LT	STH 47	--	--	--	--	--	--	--	1
55A+02	LT	STH 47, SB	--	--	--	--	1	--	--	--
55A+12	LT	STH 47	--	--	--	--	--	--	--	1
55A+15	LT	STH 47, SB	--	--	--	--	--	1	--	--
55A+40	LT	STH 47, SB	--	--	1	--	--	--	--	--
55A+93	LT	STH 47, SB	--	--	1	--	--	--	--	--
56A+85	RT	STH 47, NB	--	--	--	--	--	1	--	--
56A+97	RT	STH 47, NB	--	--	--	--	1	--	--	--
59A+12	RT	STH 47, NB	1	1	--	--	--	--	--	--
59A+34	LT	STH 47, SB	--	--	--	--	1	--	--	--
59A+47	LT	STH 47, SB	--	--	--	--	--	1	--	--
59A+52	RT	STH 47, NB	--	--	--	--	--	--	1	--
60A+00	RT	STH 47, NB	1	1	--	--	--	--	--	--
60A+44	RT	STH 47, NB	--	--	--	--	--	--	1	--
60A+56	RT	STH 47, NB	--	--	--	--	--	--	1	--
10B+26	LT	ROUNDABOUT	1	1	--	--	--	--	--	--
62A+38	LT	STH 47, SB	--	--	--	--	--	--	1	--
62A+52	LT	STH 47, SB	--	--	--	--	--	--	1	--
63A+22	RT	STH 47, NB	--	--	--	--	--	1	--	--
63A+35	RT	STH 47, NB	--	--	--	--	1	--	--	--
63A+84	LT	STH 47, SB	--	--	1	1	--	--	--	--
64A+45	LT	STH 47, SB	--	--	--	--	--	--	1	--
65A+00	LT	STH 47, SB	--	--	1	1	--	--	--	--
65A+17	LT	STH 47	--	--	--	--	--	--	--	1
68A+29	LT	STH 47, TURN LANE	--	--	1	--	--	--	--	--
68A+61	LT	STH 47, TURN LANE	--	--	1	--	--	--	--	--
72A+29	LT	STH 47, TURN LANE	--	--	1	--	--	--	--	--
72A+61	LT	STH 47, TURN LANE	--	--	1	--	--	--	--	--
74A+30	LT	STH 47, SB	--	--	--	--	1	--	--	--
74A+43	LT	STH 47, SB	--	--	--	--	--	1	--	--
74A+45	RT	STH 47, NB	--	--	1	--	--	--	--	--
74A+70	RT	STH 47, NB	--	--	--	--	--	1	--	--
74A+83	RT	STH 47, NB	--	--	--	--	1	--	--	--
75A+05	RT	STH 47, NB	--	--	1	--	--	--	--	--
75A+65	LT	STH 47	--	--	--	--	--	--	--	1
76A+70	LT	STH 47	--	--	--	--	--	--	--	1
77A+83	RT	STH 47, NB	--	--	--	--	--	1	--	--
77A+96	RT	STH 47, NB	--	--	--	--	1	--	--	--
82A+13	LT	STH 47, SB	--	--	--	--	1	--	--	--
82A+26	LT	STH 47, SB	--	--	--	--	--	1	--	--
40D+30	LT	STANDING PINES DR	--	--	--	--	--	--	--	1
42D+00	RT	STANDING PINES DR	--	--	--	--	--	--	1	--
PROJECT 9650-17-71 TOTALS			**3**	**3**	**12**	**2**	**10**	**10**	**8**	**6**

CONSTRUCTION STAKING

STAGE	STRUCTURE NUMBER	STATION	OFFSET	LOCATION	650.4000 STORM SEWER EACH
1C					
	AEW	49A+16	37.1	LT	1
	1.0	50A+00	18.2	LT	1
	2.0	52A+00	15.0	LT	1
	2.2	52A+00	27.2	LT	1
	3.0	58A+65	30.6	LT	1
	4.0	60A+32	53.1	LT	1
	4.1	60A+59	25.5	RT	1
	5.0	60A+59	155.0	LT	1
	5.1	62A+26	157.9	LT	1
	6.0	62A+02	44.6	LT	1
	7.0	62A+99	36.3	LT	1
	8.0	66A+50	29.0	LT	1
	8.2	68A+00	18.0	LT	1
	9.0	70A+00	32.0	LT	1
	10.0	71A+55	32.0	LT	1
	10.1	71A+55	55.5	LT	1
	11.0	73A+70.5	32.0	LT	1
	12.0	73A+78.5	32.0	LT	1
	AEW	73A+87.5	59.0	LT	1
	13.0	75A+00	32.7	LT	1
	13.1	75A+00	40.8	LT	1
	14.0	76A+81	33.7	LT	1
	15.0	77A+06	37.0	LT	1
				STAGE 1C SUBTOTALS	23
2A					
	1.1	50A+00	18.0	RT	1
	2.1	52A+38	25.6	RT	1
	3.1	58A+65	26.4	RT	1
	7.1	62A+25	18.0	RT	1
	8.1	66A+50	18.0	RT	1
	9.1	70A+00	18.0	RT	1
	12.1	73A+78.5	24.3	RT	1
	12.2	73A+70.5	23.3	RT	1
	AEW	74A+61.3	44.1	RT	1
	14.1	76A+58	30.2	RT	1
	AEW	76A+53.9	45.6	RT	1
	14.2	76A+24.7	50.8	RT	1
	14.3	75A+68.5	47.8	RT	1
	16.1	80A+50	18.1	RT	1
	AEW	21C+09.2	32.3	LT	1
	17.1	21C+63	14.9	LT	1
	17.2	21C+63	14.8	RT	1
				STAGE 2A SUBTOTALS	17
2C					
	16.0	80A+50	25.9	LT	1
				STAGE 2C SUBTOTALS	1
PROJECT 9650-17-71 TOTALS					**41**

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

CONSTRUCTION STAKING

STAGE	STATION	-	STATION	LOCATION	650.4500 SUBGRADE LF	650.5000 BASE LF	650.9920 SLOPE STAKES LF
1A							
	0TSA+75	-	8TSA+00	STH 47, RT	725	725	--
	8TSA+39	-	12TSA+00	STH 47, RT	361	361	--
	13TSA+57	-	18TSA+45	STH 47, RT	488	488	--
	22TSA+76	-	29TSA+00	STH 47, RT	624	624	--
	29TSA+81	-	37TSA+55	STH 47, RT	774	774	--
				STAGE 1A SUBTOTALS	2972	2972	0
	48A+63	-	83A+00	STH 47	3437	3437	3437
	10B+00	-	14B+53	ROUNDABOUT	453	453	--
	20C+28	-	21C+79	CAMPUS DR	151	151	151
	38D+45	-	42D+00	STANDING PINES DR	355	355	355
	90E+21	-	92E+60	DUQUAINE RD	239	239	239
	93E+20	-	96E+71	GO-AROUND RD	351	351	351
PROJECT 9650-17-71 TOTALS					**7958**	**7958**	**4533**

SAWING PAVEMENT

STAGE	STATION	-	STATION	LOCATION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF
1B						
	71A+34	-	73A+25	STH 47, LT	191	--
	72A+38	-	72A+78	STH 47, DRIVEWAY, LT	36	5.0
				STAGE 1B SUBTOTALS	227	5.0
1C						
	48A+65			STH 47	25	--
	48A+63	-	83A+00	STH 47	3482	--
	83A+00			STH 47	17	--
	38D+44			STANDING PINES DR	103	--
	38D+77			STANDING PINES DR, LT	--	1.5
	41D+04	-	41D+48	STANDING PINES DR, LT	54	1.5
	90E+21			DUQUAINE RD	31	5.0
				STAGE 1C SUBTOTALS	3712	8.0
2A						
	48A+65			STH 47, RT	10	--
	60A+40			STH 47, SIDEWALK, RT	--	5.0
	61A+15			STH 47, DRIVEWAY, RT	20	--
	68A+10	-	68A+39	STH 47, DRIVEWAY, RT	28	--
	72A+50	-	72A+81	STH 47, DRIVEWAY, RT	31	--
	82A+87	-	82A+95	STH 47, SIDEWALK, RT	--	5.0
	21C+79			CAMPUS DR	27	5.0
	94E+84			GO-AROUND RD, RT	34	--
	94E+84	-	96E+19	GO-AROUND RD, RT	134	--
	96E+71			GO-AROUND RD	24	1.5
				STAGE 2A SUBTOTALS	298	16.5
2B						
	55A+08	-	58A+25	STH47, ISLAND, LT	310	--
				STAGE 2B SUBTOTALS	310	0.0
2C						
	53A+42	-	54A+42	STH 47, ISLAND	219	--
				STAGE 2C SUBTOTALS	219	0.0
PROJECT 9650-17-71 TOTALS					4766	29.5

CONSTRUCTION STAKING

LOCATION	650.8500 ELECTRICAL INSTALLATIONS LS	650.9910 SUPPLEMENTAL CONTROL LS
PROJECT (9650-17-71)	**1**	**1**

PIPE GATE

STAGE	STATION	LOCATION	SPV.0060.01 GATES PIPE DUAL LEAF 18-FT EACH
2A			
	61A+15	DRIVEWAY, RT	1
PROJECT 9650-17-71 TOTAL			**1**

INSULATION BOARD

STAGE	BEGIN STATION	END STATION	LOCATION	612.0902.S INSULATION BOARD POLYSTYRENE 2-INCH SY
1C				
	49A+50	49A+60	LT	3.6
	55A+00	56A+00	LT	44.4
	55A+35		LT	10
	58A+30	71A+00	LT	557.4
	62A+77		LT	32.4
	62A+79	62A+87	LT	3.1
	65A+79		LT	14.9
	74A+80		LT	3.6
	74A+93		LT	3.6
	74A+96		LT	3.6
	80A+21		LT	3.6
		STAGE 1C SUBTOTAL		680.2
2A				
	74A+80		RT	3.6
		STAGE 2A SUBTOTAL		3.6
		Undistributed		16
PROJECT 9650-17-71 TOTALS				**700**

WATER MAIN

PROJECT NO.	STAGE	STATION	LOCATION	SPV.0060.11 ADJUSTING WATER MAIN VALVE BOX EACH	SPV.0060.12 ADJUSTING HYDRANT EACH	SPV.0060.13 HYDRANT EACH	SPV.0060.14 WATER MAIN GATE VALVE & BOX 6-INCH EACH	SPV.0060.15 WATER MAIN GATE VALVE & BOX 10-INCH EACH	SPV.0090.02 WATER MAIN 6-INCH LF	SPV.0090.03 WATER MAIN 10-INCH LF	SPV.0060.16 TRACER WIRE ACCESS BOX EACH	SPV.0060.17 WATER MAIN COUPLING 6-INCH EACH	SPV.0060.18 WATER MAIN COUPLING 10-INCH EACH	SPV.0060.19 WATER MAIN TEE 10 X 6-INCH EACH	SPV.0060.20 WATER MAIN TAPPING SLEEVE 8 X 6-INCH EACH
9650-17-72															
	1C														
		55A+35	LT	--	--	--	1	--	25.5	--	1	1	--	--	--
		62A+76	LT	--	--	1	1	1	10.5	75	1	--	1	1	--
		65A+79	LT	2	--	--	1	--	36.5	--	1	1	--	--	--
		70A+54	LT	1	1	--	--	--	--	--	--	--	--	--	--
		74A+95	LT	1	--	--	--	--	--	--	--	--	--	--	--
		75A+00	LT	1	--	--	--	--	--	--	--	--	--	--	--
		75A+40	LT	1	--	--	--	--	--	--	--	--	--	--	--
		75A+44	LT	1	--	--	--	--	--	--	--	--	--	--	--
		77A+48	LT	1	--	--	--	--	--	--	--	--	--	--	--
		79A+56	LT	1	1	--	--	--	--	--	--	--	--	--	--
		STAGE 1C SUBTOTALS		9	2	1	3	1	72.5	75	3	2	1	1	0
	2A														
		74A+92	RT	--	--	--	1	--	22.5	--	1	--	--	--	1
		STAGE 2A SUBTOTALS		0	0	0	1	0	22.5	0	1	0	0	0	1
PROJECT 9650-17-72 TOTALS				**9**	**2**	**1**	**4**	**1**	**95**	**75**	**4**	**2**	**1**	**1**	**1**

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

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REMOVING WATER MAIN

PROJECT NO.	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 REMOVING HYDRANT EACH
9650-17-72								
	1C							
		55A+35.3	LT	1	--	--	1	--
		65A+79	LT	--	--	--	1	1
		STAGE 1C SUBTOTALS		1	0	0	2	1
	2A							
		60A+40	RT	1	1	--	--	1
		74A+92	RT	--	1	1	1	1
		STAGE 2A SUBTOTALS		1	2	1	1	2
PROJECT 9650-17-72 TOTALS				**2**	**2**	**1**	**3**	**3**

SANITARY MANHOLES

PROJECT NO.	STAGE	STATION	LOCATION	611.8110 ADJUSTING MANHOLE COVERS EACH	611.8120.S COVER PLATES TEMPORARY EACH	SPV.0060.05 SANITARY CHIMNEY SEALS EACH
9650-17-72						
	1C					
		72A+86	LT	1	1	1
		74A+80	LT	1	1	1
		76A+59	LT	1	1	1
		80A+20	LT	1	1	1
		STAGE 1C SUBTOTALS		4	4	4
	2A					
		74A+80	RT	1	1	1
		80A+24	RT	1	1	1
		STAGE 2A SUBTOTALS		2	2	2
PROJECT 9650-17-72 TOTALS				**6**	**6**	**6**

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: WIRE SLACK LF	IN CONDUIT: NUMBER OF WIRES (INCLUDING GROUND WIRE)	#12 AWG IN LIGHT POLE: LENGTH OF WIRE IN POLE	#12 AWG IN LIGHT POLE: NUMBER OF LIGHTING 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.
1C															
	CB1		LPB3	31	3		93	25	7						392
	LPB3		L-0014	10	1	10		5	5	40	3	20	3	180	195
	CB1		LPB4	33	3		99	25	17						986
	LPB4		L-0016	15	1	15		5	7	40	3	20	3	180	260
	LPB4		LPB5	125	2		250	17	14						1988
	LPB5		L-0015	31	1	31		5	7	40	3	20	3	180	372
	L-0015		L-0013	183	1	183		10	7	40	3	20	3	180	1471
	L-0013		L-0010	237	1	237		10	7	40	3	20	3	180	1849
	L-0010		L-0008	115	1	115		10	7	40	3	20	3	180	995
	L-0008		L-0006	121	1	121		10	7	40	3	20	3	180	1037
	L-0006		L-0004	122	1	122		10	7	40	3	20	3	180	1044
	L-0004		L-0003	124	1	124		10	7	40	3	20	3	180	1058
	L-0003		L-0002	120	1	120		10	7	40	3	20	3	180	1030
	L-0002		L-0001	121	1	121		10	5	40	3	20	3	180	775
	LPB5		L-0017	67	1	67		5	7	40	3	20	3	180	624
	LPB5		LPB6	121	2		242	17	7						966
	LPB6		L-0019	7	1	7		5	7	40	3	20	3	180	204
	LPB6		LPB7	91	2		182	17	7						756
	LPB7		L-0018	9	1	9		5	7	40	3	20	3	180	218
	LPB6		L-0020	66	1	66		5	7	40	3	20	3	180	617
	L-0020		L-0021	113	1	113		10	7	40	3	20	3	180	981
	L-0021		L-0023	109	1	109		10	7	40	3	20	3	180	953
	L-0023		L-0025	110	1	110		10	7	40	3	20	3	180	960
	L-0025		L-0027	208	1	208		10	7	40	3	20	3	180	1646
	L-0027		L-0029	208	1	208		10	7	40	3	20	3	180	1646
	L-0029		L-0031	208	1	208		10	7	40	3	20	3	180	1646
	L-0031		L-0033	233	1	233		10	7	40	3	20	3	180	1821
	L-0033		L-0035	135	1	135		10	7	40	3	20	3	180	1135
	L-0035		LPB9	10	1	10		22	7						224
	LPB9		LPB10	83	2		166	17	7						700
	LPB10		L-0037	69	1	69		5	7	40	3	20	3	180	638
	L-0037		L-0039	197	1	197		10	7	40	3	20	3	180	1569
	L-0039		L-0041	234	1	234		10	5	40	3	20	3	180	1340
	STAGE 1C SUBTOTAL					3182	1032								32096
2A															
	L-0014		L-0012	257	1	257		27	7	40	3	20	3	180	2108
	L-0012		L-0011	127	1	127		10	7	40	3	20	3	180	1079
	L-0011		L-0009	120	1	120		10	7	40	3	20	3	180	1030
	L-0009		LPB2	10	1	10		22	7						224
	LPB2		LPB1	107	2		214	17	7						868
	LPB1		L-0007	9	1	9		5	7	40	3	20	3	180	218
	L-0007		L-0005	122	1	122		10	5	40	3	20	3	180	780
	L-0016		L-0022	304	1	304		10	7	40	3	20	3	180	2318
	L-0022		L-0024	104	1	104		10	7	40	3	20	3	180	918
	L-0024		L-0026	211	1	211		10	7	40	3	20	3	180	1667
	L-0026		L-0028	208	1	208		10	7	40	3	20	3	180	1646
	L-0028		L-0030	208	1	208		10	7	40	3	20	3	180	1646
	L-0030		L-0032	208	1	208		10	7	40	3	20	3	180	1646
	L-0032		L-0034	157	1	157		10	7	40	3	20	3	180	1576
	L-0034		LPB8	52	1	52		22	7						224
	LPB8		LPB11	108	2		216	17	7						973
	LPB11		L-0036	8	1	8		5	7	40	3	20	3	180	225
	L-0036		L-0038	163	1	163		10	7	40	3	20	3	180	1296
	L-0038		L-0040	234	1	234		10	7	40	3	20	3	180	1828
	L-0040		L-0042	234	1	234		10	5	40	3	20	3	180	1340
	STAGE 2A SUBTOTAL					2736	430							2880	23610
	PROJECT 9650-17-71 TOTALS					5918	1462							2880	55706

PULL BOXES

STAGE	PULL BOX NO.	** LOCATION	653.0164 PULL BOXES NON-CONDUCTIVE 24"x42" EACH
1C			
	LPB3	60A+10, 35' RT	1
	LPB4	60A+93, 32' RT	1
	LPB5	60A+49, 80' LT	1
	LPB6	62A+39, 118' LT	1
	LPB7	62A+27, 28' LT	1
	LPB9	75A+86, 64' LT	1
	LPB10	76A+69, 61' LT	1
		STAGE 1C SUBTOTAL	7
2A			
	LPB1	54A+01, 36' RT	1
	LPB2	55A+08, 38' RT	1
	LPB8	75A+40, 45' RT	1
	LPB11	76A+62, 51' RT	1
		STAGE 2A SUBTOTAL	4
		PROJECT 9650-17-71 TOTAL	11

LEGEND

** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

All ITEMS ON THIS SHEET ARE CATEGORY 0010

STH 47 LIGHTING
PAGE 1 OF 3

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LIGHTING EQUIPMENT

STAGE	LIGHT NO.	** LOCATION	654.0105 CONCRETE BASE TYPE 5 EACH	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	657.0615 LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 8-FT EACH	659.1120 LUMINAIRES UTILITY LED B EACH	SPV.0060.03 LIGHT POLE TYPE 5 SPECIAL EACH
1C							
	L-0001	49A+06, 21' LT	1	1	1	1	1
	L-0002	50A+26, 24' LT	1	1	1	1	1
	L-0003	51A+46, 29' LT	1	1	1	1	1
	L-0004	52A+70, 36' LT	1	1	1	1	1
	L-0006	53A+92, 42' LT	1	1	1	1	1
	L-0008	55A+13, 48' LT	1	1	1	1	1
	L-0010	56A+31, 60' LT	1	1	1	1	1
	L-0013	58A+79, 35' LT	1	1	1	1	1
	L-0014	59A+97, 30' RT	1	1	1	1	1
	L-0015	60A+34, 61' LT	1	1	1	1	1
	L-0016	61A+04, 31' RT	1	1	1	1	1
	L-0017	41D+65, 23' RT	1	1	1	1	1
	L-0018	62A+27, 19' LT	1	1	1	1	1
	L-0019	41D+74, 58' LT	1	1	1	1	1
	L-0020	62A+86, 78' LT	1	1	1	1	1
	L-0021	63A+91, 50' LT	1	1	1	1	1
	L-0023	64A+99, 46' LT	1	1	1	1	1
	L-0025	66A+07, 37' LT	1	1	1	1	1
	L-0027	68A+13, 37' LT	1	1	1	1	1
	L-0029	70A+21, 37' LT	1	1	1	1	1
	L-0031	72A+29, 37' LT	1	1	1	1	1
	L-0033	74A+61, 37' LT	1	1	1	1	1
	L-0035	75A+91, 71' LT	1	1	1	1	1
	L-0037	77A+34, 40' LT	1	1	1	1	1
	L-0039	79A+32, 36' LT	1	1	1	1	1
	L-0041	81A+66, 26' LT	1	1	1	1	1
		STAGE 1C SUBTOTAL	26	26	26	26	26
2A							
	L-0005	52A+70, 33' RT	1	1	1	1	1
	L-0007	53A+92, 35' RT	1	1	1	1	1
	L-0009	55A+17, 34' RT	1	1	1	1	1
	L-0011	56A+34, 23' RT	1	1	1	1	1
	L-0012	57A+57, 23' RT	1	1	1	1	1
	L-0022	63A+90, 23' RT	1	1	1	1	1
	L-0024	64A+96, 23' RT	1	1	1	1	1
	L-0026	67A+08, 23' RT	1	1	1	1	1
	L-0028	69A+17, 23' RT	1	1	1	1	1
	L-0030	71A+25, 23' RT	1	1	1	1	1
	L-0032	73A+33, 24' RT	1	1	1	1	1
	L-0034	75A+30, 41' RT	1	1	1	1	1
	L-0036	76A+54, 46' RT	1	1	1	1	1
	L-0038	78A+15, 23' RT	1	1	1	1	1
	L-0040	80A+48, 23' RT	1	1	1	1	1
	L-0042	82A+82, 20' RT	1	1	1	1	1
		STAGE 2A SUBTOTAL	16	16	16	16	16
		PROJECT 9650-17-71 TOTALS	42	42	42	42	42

LIGHTING CONTROL CABINET

STAGE	CONTROL CABINET NO.	** LOCATION	654.0230 CONCRETE CONTROL CABINET BASE TYPE L30 EACH	SPV.0060.04 LIGHTING CONTROL CABINET SPECIAL EACH
1C				
	CB1	60A+55, 48' RT	1	1
		STAGE 1C SUBTOTAL	1	1
		PROJECT 9650-17-71 TOTAL	1	1

ELECTRICAL SERVICE METER BREAKER PEDESTAL

STAGE	CONTROL CABINET NO.	** LOCATION	656.0200.01 ELECTRICAL SERVICE METER BREAKER PEDESTAL L.S.
1C			
	CB1	STH 47 LIGHTING	1
		STAGE 1C SUBTOTAL	1
		PROJECT 9650-17-71 TOTAL	1

LEGEND

** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

All ITEMS ON THIS SHEET ARE CATEGORY 0010

STH 47 LIGHTING
PAGE 2 OF 3

REMOVE ELECTRICAL WIRE

STAGE	LOC.	TO	LOC.	674.0300 REMOVE CABLE L.F.
1C				
	LP1		LP2	156
	LP2		LP3	157
	LP3		LP4	159
	LP4		LP5	159
	LP5		LP6	159
	LP6		LP7	159
	LP7		LP8	157
	LP8		LP9	160
	LP9		ES1	104
	ES1		LP10	56
	LP10		LP11	149
	LP11		LP13	154
	LP13		LP15	160
	LP15		LP17	161
	LP17		LP19	127
	LP11		LP12	84
		STAGE 1C SUBTOTAL		2261
2A				
	LP12		LP14	154
	LP14		LP16	156
	LP16		LP18	153
		STAGE 2A SUBTOTAL		463
		PROJECT 9650-17-71 TOTALS		2724

LIGHTING EQUIPMENT REMOVAL

STAGE	LIGHT NO.	LOCATION	SPV.0060.02 SALVAGE EXISTING LIGHT POLE ASSEMBLY EACH
1A			
	LP1	61A+16, 45' RT	1
	LP2	62A+49, 40' RT	1
	LP3	64A+10, 50' RT	1
	LP4	65A+71, 50' RT	1
	LP5	67A+33, 43' RT	1
	LP6	68A+92, 34' RT	1
	LP7	70A+51, 27' RT	1
	LP8	72A+08, 26' RT	1
	LP9	73A+68, 25' RT	1
	LP10	75A+27, 25' RT	1
	LP11	76A+75, 26' RT	1
	LP13	78A+29, 25' RT	1
	LP15	79A+88, 26' RT	1
	LP17	81A+49, 27' RT	1
	LP19	82A+77, 28' RT	1
		STAGE 1A SUBTOTAL	15
1C			
	LP12	77A+54, 62' LT	1
	LP14	79A+08, 62' LT	1
	LP16	80A+66, 58' LT	1
	LP18	82A+18, 54' LT	1
		STAGE 1C SUBTOTAL	4
		PROJECT 9650-17-71 TOTAL	19

LEGEND

** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

All ITEMS ON THIS SHEET ARE CATEGORY 0010

STH 47 LIGHTING
PAGE 3 OF 3

DOT COMPOSITE ORIGINAL LOCATED AT THE REGISTER OF DEEDS OFFICE

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	HIGHWAY EASEMENT ACRES REQUIRED			TLE ACRES
			NEW	EXISTING	TOTAL	
1	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN	HIGHWAY EASEMENT & TLE	0.037	0.212	0.249	0.139
2	MAYNARD A. WILBER	TLE	-----	-----	-----	0.046
3	NATHALYN T. WAUPOOSE	HIGHWAY EASEMENT & TLE	0.027	-----	-----	0.157
4	ESTATE OF ADELAIDE W. TUCKER, EASEMENT INTEREST TO UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN, LESSOR & ROYAL E. WARRINGTON, LESSEE, UNDER PERMIT OF LANDUSE DOCUMENT NO. 13132, AND REYNELL TUCKER	HIGHWAY EASEMENT & TLE	0.003	-----	0.003	0.009
6	CLARENCE TUCKER JR. & ELIZABETH TUCKER	HIGHWAY EASEMENT & TLE	0.084	-----	-----	0.193
15	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN	HIGHWAY EASEMENT & TLE	0.728	0.086	0.814	0.653

TRANSPORTATION PROJECT PLAT NO: 9650-17-21 - 4.01 AMENDMENT NO. 2

SCALE. FEET 0 50 100

REMOVES PARCEL 7 AND REPLACES WITH PARCEL 15, AMENDS THE SCHEDULE OF LANDS & INTERESTS REQUIRED AND THE UTILITY INTEREST TABLE OF TRANSPORTATION PROJECT PLAT 9650-17-21 - 4.01, AMENDMENT NO. 1 RECORDED AS DOCUMENT 033743.

THAT PART OF PARCEL 1 OF CSM, VOLUME 1, PAGE 89 AND LOT 2 OF CSM 159, VOLUME 3, PAGE 253-254, LOCATED IN THE SW 1/4 OF THE SW 1/4, ALSO THAT PART OF LOT 1 OF CSM 136, VOLUME 3, PAGE 183-184, LOCATED IN THE SW 1/4 OF THE SW 1/4 AND THE SE 1/4 OF THE SW 1/4, ALL IN SECTION 36, TOWNSHIP 28 NORTH, RANGE 15 EAST, MENOMINEE INDIAN RESERVATION, MENOMINEE COUNTY, WISCONSIN.

RELOCATION ORDER STH 47/55, MENOMINEE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN MENOMINEE COUNTY, WISCONSIN AT 10:27AM ON August 6, 2015 AS DOCUMENT # 033987 AND FILED IN Menominee County.
Michelle Shakeno, deputy
SIGNATURE OF REGISTER OF DEEDS
Vol. 100 of Records page 963 Doc.# 033987

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 9650-17-21-4.01
AMENDMENT NO: 2

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER (S)	INTEREST REQUIRED
50	FRONTIER COMMUNICATIONS OF WI LLC (TELEPHONE)	RELEASE OF RIGHTS
51	WISCONSIN POWER & LIGHT COMPANY, A WISCONSIN CORPORATION (ELECTRIC)	RELEASE OF RIGHTS

UTILITY INTEREST TABLE

UTILITY	INTEREST TYPE	PARCEL
50	VOL. 52 PG. 685 DOC. 20063	2
50	VOL. 52 PG. 681 DOC. 20060	3
50	VOL. 52 PG. 681 DOC. 20060	4
50	VOL. 52 PG. 680 DOC. 20059	6
50	NO EASEMENT OF RECORD	15
51	NO EASEMENT OF RECORD	3
51	NO EASEMENT OF RECORD	15

R/W CURVE DATA TABLE

FROM - TO	RADIUS	LENGTH	CHORD	CHORD BEARING
1005 - 1092	3859.72'	319.36'	319.27'	S09°24'05"E

R/W COURSE TABLE

FROM - TO	BEARING	DISTANCE
1000 - 2001	N02°29'31"W	248.46'
2001 - 2002	N05°33'27"W	366.84'
2002 - 2003	N17°11'45"W	53.60'
2003 - 2004	N08°59'07"W	50.91'
2004 - 2005	N02°38'42"W	63.73'
2005 - 2006	N14°08'23"W	86.86'
2006 - 2007	N19°15'58"W	93.56'
2007 - 2008	N22°41'59"W	131.85'
2008 - 2009	N27°40'28"W	40.65'
2009 - 2010	N61°11'09"W	50.36'
2010 - 2055	N03°43'02"W	52.58'
2055 - 1048	N80°31'29"E	121.57'
1065 - 2021	S11°46'18"E	50.75'
2021 - 2022	S23°50'26"E	93.33'
2022 - 1005	S03°25'49"W	74.42'
1005 - 1092	CURVE	
1092 - 1090	S22°53'20"E	244.54'
1090 - 1071	S05°37'54"E	68.00'
1071 - 1066	S14°45'14"W	259.21'
1066 - 1001	S02°29'31"E	240.16'

TLE STATION & OFFSET TABLE

POINT	STATION	OFFSET
2200	49A+48.40	62.00'
2205	51A+00.00	50.00'
2206	51A+00.00	65.00'
2207	53A+50.00	65.00'
2209	58A+00.00	65.00'
2210	60A+00.00	65.00'
2211	42D+15.00	54.00'
2212	39D+50.00	54.00'
2213	38D+31.00	25.00'
2226	54A+65.26	190.00'
2227	54A+80.00	190.00'
2230	55A+20.00	105.64'
2231	61A+04.16	136.43'
2232	61A+25.31	125.15'
2233	61A+25.72	85.11'
2234	62A+63.16	47.17'
2261	56A+28.96	78.95'
2277	38D+34.76	3.20'
2280	54A+60.00	68.67'
2281	54A+80.00	105.00'
2282	56A+28.90	110.00'

FOUND MONUMENTATION TABLE

POINT	Y	X	DESCRIPTION
300	51003.86	291471.51	1" IRON PIPE
302	52086.71	291268.05	1" IRON PIPE
617	52179.11	291248.95	CASINO MON.
618	51684.35	291329.52	CASINO MON.

R/W STATION & OFFSET TABLE

POINT	STATION	OFFSET
1000	49A+46.53	41.39'
1001	49A+39.29	38.44'
1005	60A+96.82	72.11'
1048	61A+90.09	42.97'
1065	62A+66.25	47.50'
1066	51A+80.44	40.50'
1071	54A+27.75	118.12'
1090	54A+95.66	114.60'
1092	57A+16.81	49.61'
2001	51A+93.96	39.45'
2002	55A+62.58	57.22'
2003	56A+18.75	67.17'
2004	56A+73.32	66.55'
2005	57A+40.04	54.91'
2006	58A+32.47	45.64'
2007	59A+22.56	42.95'
2008	60A+29.18	69.42'
2009	42D+25.35	41.75'
2010	41D+64.77	33.35'
2021	62A+15.00	41.01'
2022	61A+41.49	58.30'
2055	41D+56.74	18.72'

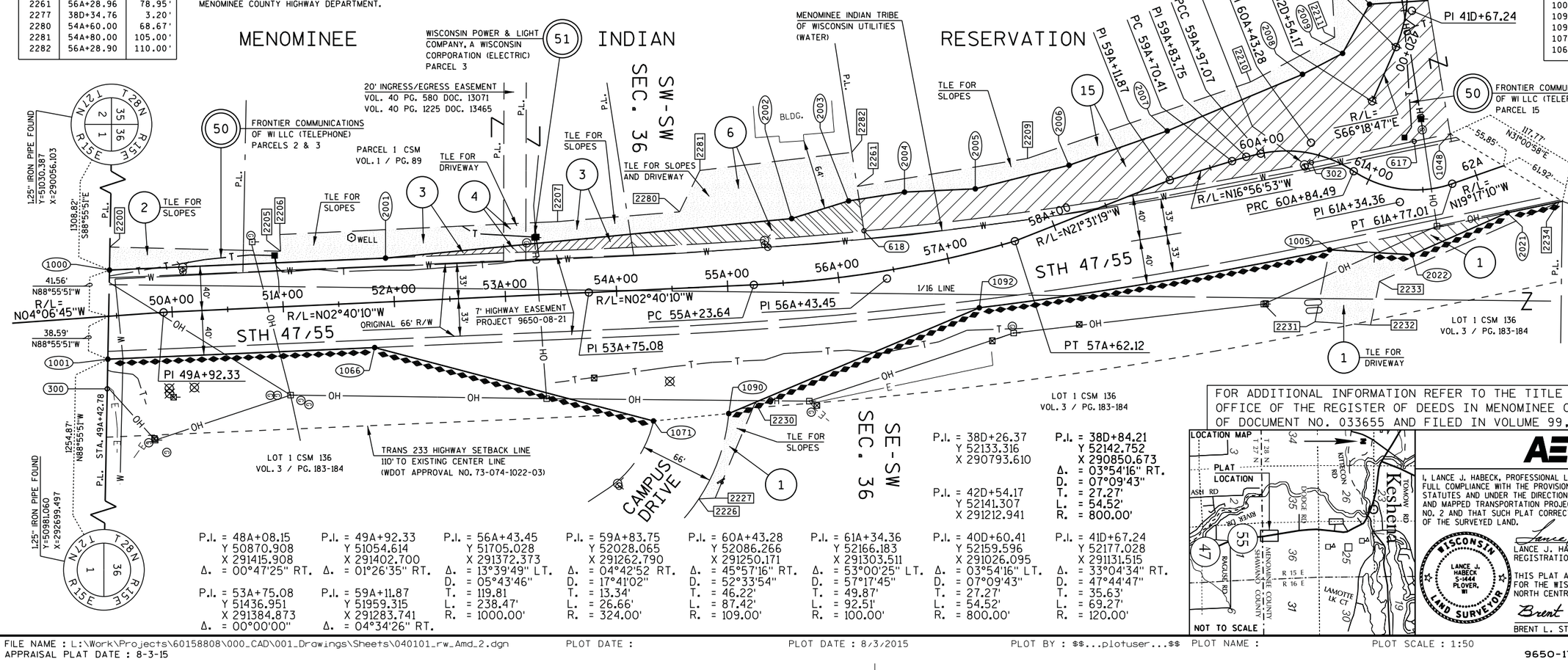
POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, MENOMINEE COUNTY, NAD 83 (2007) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT OF WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 3/4" x 24" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
EXISTING RIGHT-OF-WAY FOR STH 47/55 IS ESTABLISHED BY PREVIOUS PROJECT 9650-08-21, CSM 136/V. 3/P. 183-184, CSM 89/ V. 1/P. 89 AND CSM 159/V. 2/P. 253-254.
EXISTING RIGHT-OF-WAY FOR CAMPUS DRIVE IS ESTABLISHED BY CSM 136, VOL. 3, PG. 183-184.

EXISTING ACCESS CONTROL FOR STH 47/55 AND CAMPUS DRIVE ENTRANCE ESTABLISHED BY CSM 136/V. 3/P. 183-184.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NORTH CENTRAL REGION OFFICE IN RHINELANDER AND THE MENOMINEE COUNTY HIGHWAY DEPARTMENT.



FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN MENOMINEE COUNTY AS SHEET 2 OF 2 OF DOCUMENT NO. 033655 AND FILED IN VOLUME 99, PAGE 517-518.

AECOM

I, LANCE J. HABECK, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 9650-17-21 - 4.01, AMENDMENT NO. 2 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

Lance J. Habeck 8/3/2015
LANCE J. HABECK DATE
REGISTRATION NUMBER: S-1444

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

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NORTH CENTRAL REGION.

Brent L Stella 8-4-15
BRENT L. STELLA SIGNATURE DATE

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\040101_rw_Amd_2.dgn PLOT DATE :
APPRAISAL PLAT DATE : 8-3-15
PLOT DATE : 8/3/2015 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : 1:50

9650-17-21 4.01 AMENDMENT NO. 2

DOT COMPOSITE ORIGINAL LOCATED AT THE REGISTER OF DEEDS OFFICE

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	R/W ACRES REQUIRED EXISTING	R/W ACRES REQUIRED TOTAL	H.E. ACRES	TLE ACRES
1	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN	HIGHWAY EASEMENT & TLE	-----	-----	-----	0.037	0.139
2	MAYNARD A. WILBER	TLE	-----	-----	-----	-----	0.046
3	NATHALYN T. WAUPOOSE	HIGHWAY EASEMENT & TLE	-----	-----	-----	0.027	0.157
4	ESTATE OF ADELAIDE W. TUCKER, EASEMENT INTEREST TO UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN, LESSOR & ROYAL E. WARRINGTON, LESSEE, UNDER PERMIT OF LANDUSE DOCUMENT NO. 13132, AND REYNELL TUCKER	HIGHWAY EASEMENT & TLE	-----	-----	-----	0.003	0.009
6	CLARENCE TUCKER JR. & ELIZABETH TUCKER	HIGHWAY EASEMENT & TLE	-----	-----	-----	0.084	0.193
7	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN	HIGHWAY EASEMENT & TLE	-----	-----	-----	0.728	0.653

TRANSPORTATION PROJECT PLAT NO: 9650-17-21 - 4.01 AMENDMENT NO. 1

SCALE. FEET 0 50 100

AMENDS PARCELS 2, 3, 4, 6 AND 7 OF TRANSPORTATION PROJECT PLAT 9650-17-21 - 4.01, RECORDED AS DOCUMENT 033655.

THAT PART OF PARCEL 1 OF CSM, VOLUME 1, PAGE 89 AND LOT 2 OF CSM 159, VOLUME 3, PAGE 253-254, LOCATED IN THE SW 1/4 OF THE SW 1/4, ALSO THAT PART OF LOT 1 OF CSM 136, VOLUME 3, PAGE 183-184, LOCATED IN THE SW 1/4 OF THE SW 1/4 AND THE SE 1/4 OF THE SW 1/4, ALL IN SECTION 36, TOWNSHIP 28 NORTH, RANGE 15 EAST, MENOMINEE INDIAN RESERVATION, MENOMINEE COUNTY, WISCONSIN.

RELOCATION ORDER STH 47/55, MENOMINEE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN MENOMINEE COUNTY, WISCONSIN AT 11:09 AM ON January 16, 2015 AS DOCUMENT # 033743 AND FILED IN Menominee County.
Michelle Kirkland, deputy
SIGNATURE OF REGISTER OF DEEDS
Vol. 99 of Records page 909

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 9650-17-21-4.01
AMENDMENT NO: 1

TLE STATION & OFFSET TABLE

POINT	STATION	OFFSET
2200	49A+48.40	62.00'
2205	51A+00.00	50.00'
2206	51A+00.00	65.00'
2207	53A+50.00	65.00'
2209	58A+00.00	65.00'
2210	60A+00.00	65.00'
2211	42D+15.00	54.00'
2212	39D+50.00	54.00'
2213	38D+31.00	25.00'
2226	54A+65.26	190.00'
2227	54A+80.00	190.00'
2230	55A+20.00	105.64'
2231	61A+04.16	136.43'
2232	61A+25.31	125.15'
2233	61A+25.72	85.11'
2234	62A+63.16	47.17'
2261	56A+28.96	78.95'
2277	38D+34.76	3.20'
2280	54A+60.00	68.67'
2281	54A+80.00	105.00'
2282	56A+28.90	110.00'

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, MENOMINEE COUNTY, NAD 83 (2007) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT OF WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 3/4" x 24" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
EXISTING RIGHT-OF-WAY FOR STH 47/55 IS ESTABLISHED BY PREVIOUS PROJECT 9650-08-21, CSM 136/V. 3/P. 183-184, CSM 89/ V. 1/P. 89 AND CSM 159/V. 2/P. 253-254.
EXISTING RIGHT-OF-WAY FOR CAMPUS DRIVE IS ESTABLISHED BY CSM 136, VOL. 3, PG. 183-184.

EXISTING ACCESS CONTROL FOR STH 47/55 AND CAMPUS DRIVE ENTRANCE ESTABLISHED BY CSM 136/V. 3/P. 183-184.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NORTH CENTRAL REGION OFFICE IN RHINELANDER AND THE MENOMINEE COUNTY HIGHWAY DEPARTMENT.

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER (S)	INTEREST REQUIRED
50	FRONTIER COMMUNICATIONS OF WI LLC (TELEPHONE)	RELEASE OF RIGHTS
51	WISCONSIN POWER & LIGHT COMPANY, A WISCONSIN CORPORATION (ELECTRIC)	RELEASE OF RIGHTS

UTILITY INTEREST TABLE

UTILITY	INTEREST TYPE	PARCEL
50	VOL. 52 PG. 685 DOC. 20063	2
50	VOL. 52 PG. 681 DOC. 20060	3
50	VOL. 52 PG. 681 DOC. 20060	4
50	VOL. 52 PG. 680 DOC. 20059	6
50	NO EASEMENT OF RECORD	7
51	NO EASEMENT OF RECORD	3
51	NO EASEMENT OF RECORD	7

FOUND MONUMENTATION TABLE

POINT	Y	X	DESCRIPTION
300	51003.86	291471.51	1" IRON PIPE
302	52086.71	291268.05	1" IRON PIPE
617	52179.11	291248.95	CASINO MON.
618	51684.35	291329.52	CASINO MON.

R/W CURVE DATA TABLE

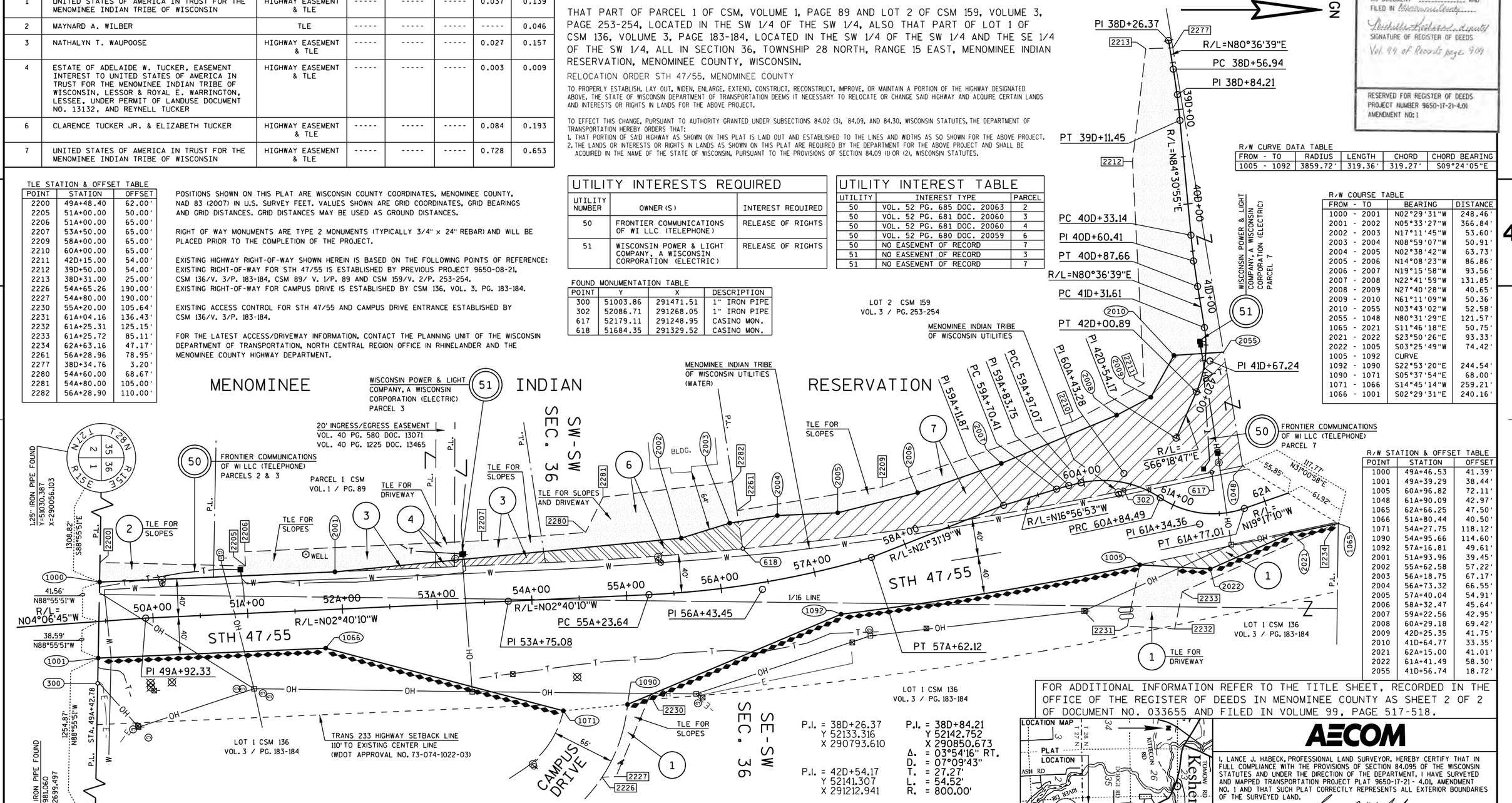
FROM - TO	RADIUS	LENGTH	CHORD	CHORD BEARING
1005 - 1092	3859.72'	319.36'	319.27'	S09°24'05"E

R/W COURSE TABLE

FROM - TO	BEARING	DISTANCE
1000 - 2001	N02°29'31"W	248.46'
2001 - 2002	N05°33'27"W	366.84'
2002 - 2003	N17°11'45"W	53.60'
2003 - 2004	N08°59'07"W	50.91'
2004 - 2005	N02°38'42"W	63.73'
2005 - 2006	N14°08'23"W	86.86'
2006 - 2007	N19°15'58"W	93.56'
2007 - 2008	N22°41'59"W	131.85'
2008 - 2009	N27°40'28"W	40.65'
2009 - 2010	N61°11'09"W	50.36'
2010 - 2055	N03°43'02"W	52.58'
2055 - 1048	N80°31'29"E	121.57'
1065 - 2021	S11°46'18"E	50.75'
2021 - 2022	S23°50'26"E	93.33'
2022 - 1005	S03°25'49"W	74.42'
1005 - 1092	CURVE	
1092 - 1090	S22°53'20"E	244.54'
1090 - 1071	S05°37'54"E	68.00'
1071 - 1066	S14°45'14"W	259.21'
1066 - 1001	S02°29'31"E	240.16'

R/W STATION & OFFSET TABLE

POINT	STATION	OFFSET
1000	49A+46.53	41.39'
1001	49A+39.29	38.44'
1005	60A+96.82	72.11'
1048	61A+90.09	42.97'
1065	62A+66.25	47.50'
1066	51A+80.44	40.50'
1071	54A+27.75	118.12'
1090	54A+95.66	114.60'
1092	57A+16.81	49.61'
2001	51A+93.96	39.45'
2002	55A+62.58	57.22'
2003	56A+18.75	67.17'
2004	56A+73.32	66.55'
2005	57A+40.04	54.91'
2006	58A+32.47	45.64'
2007	59A+22.56	42.95'
2008	60A+29.18	69.42'
2009	42D+25.35	41.75'
2010	41D+64.77	33.35'
2021	62A+15.00	41.01'
2022	61A+41.49	58.30'
2055	41D+56.74	18.72'



P.I. = 38D+26.37
Y 52133.316
X 290793.610

P.I. = 42D+54.17
Y 52141.307
X 291212.941

P.I. = 38D+84.21
Y 52142.752
X 290850.673
Δ. = 03°54'16" RT.
D. = 07°09'43"
T. = 27.27'
L. = 54.52'
R. = 800.00'

P.I. = 48A+08.15
Y 50870.908
X 291415.908
Δ. = 00°47'25" RT.

P.I. = 49A+92.33
Y 51054.614
X 291402.700
Δ. = 01°26'35" RT.

P.I. = 56A+43.45
Y 51705.028
X 291372.373
Δ. = 13°39'49" LT.
D. = 05°43'46"
T. = 119.81
L. = 238.47'
R. = 1000.00'

P.I. = 59A+83.75
Y 52028.065
X 291262.790
Δ. = 04°42'52" RT.
D. = 17°41'02"
T. = 13.34'
L. = 26.66'
R. = 324.00'

P.I. = 60A+43.28
Y 52086.266
X 291250.171
Δ. = 45°57'16" RT.
D. = 52°33'54"
T. = 46.22'
L. = 87.42'
R. = 109.00'

P.I. = 61A+34.36
Y 52166.183
X 291303.511
Δ. = 53°00'25" LT.
D. = 57°17'45"
T. = 49.87'
L. = 92.51'
R. = 100.00'

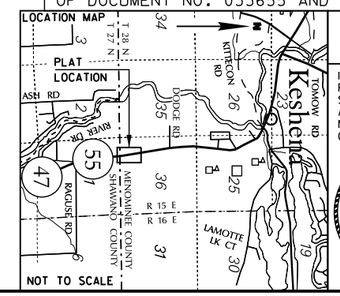
P.I. = 40D+60.41
Y 52159.596
X 291026.095
Δ. = 03°54'16" LT.
D. = 07°09'43"
T. = 27.27'
L. = 54.52'
R. = 800.00'

P.I. = 41D+67.24
Y 52177.028
X 291131.515
Δ. = 33°04'34" RT.
D. = 47°44'47"
T. = 35.63'
L. = 69.27'
R. = 120.00'

P.I. = 53A+75.08
Y 51436.951
X 291384.873
Δ. = 00°00'00"

P.I. = 59A+11.87
Y 51959.315
X 291283.741
Δ. = 04°34'26" RT.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN MENOMINEE COUNTY AS SHEET 2 OF 2 OF DOCUMENT NO. 033655 AND FILED IN VOLUME 99, PAGE 517-518.



AECOM

I, LANCE J. HABECK, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 9650-17-21 - 4.01, AMENDMENT NO. 1 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

Lance J. Habeck 1/15/2015
LANCE J. HABECK DATE
REGISTRATION NUMBER: S-1444

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

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NORTH CENTRAL REGION.

Brent L Stella 1-16-2015
BRENT L. STELLA SIGNATURE DATE

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\040101_rw_Amd_1.dgn PLOT DATE : PLOT DATE : 1/15/2015 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : 1:50
APPRAISAL PLAT DATE : 1-15-15

9650-17-21 4.01 AMENDMENT NO. 1

DOT COMPOSITE ORIGINAL LOCATED AT THE REGISTER OF DEEDS OFFICE

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	R/W ACRES REQUIRED EXISTING	R/W ACRES REQUIRED TOTAL	H.E. ACRES	TLE ACRES
1	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN	HIGHWAY EASEMENT & TLE	-----	-----	-----	0.037	0.139
2	MAYNARD A. WILBER	HIGHWAY EASEMENT & TLE	-----	-----	-----	0.016	0.025
3	NATHALYN T. WAUPOOSE	HIGHWAY EASEMENT & TLE	-----	-----	-----	0.051	0.132
4	ESTATE OF ADELAIDE W. TUCKER, EASEMENT INTEREST TO UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN, LESSOR & ROYAL E. WARRINGTON, LESSEE, UNDER PERMIT OF LANDUSE DOCUMENT NO. 13132, AND REYNELL TUCKER	HIGHWAY EASEMENT & TLE	-----	-----	-----	0.005	0.007
6	CLARENCE TUCKER JR. & ELIZABETH TUCKER	HIGHWAY EASEMENT & TLE	-----	-----	-----	0.100	0.177
7	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN	HIGHWAY EASEMENT & TLE	-----	-----	-----	1.009	0.367

TLE STATION & OFFSET TABLE

POINT	STATION	OFFSET
2200	49A+48.40	61.95'
2203	50A+00.00	58.01'
2204	50A+00.00	53.01'
2205	51A+00.00	47.71'
2206	51A+00.00	65.00'
2207	53A+50.00	65.00'
2209	58A+00.00	65.00'
2210	60A+08.87	67.31'
2211	42D+14.41	53.96'
2212	39D+50.00	54.00'
2213	38D+31.17	24.95'
2226	54A+65.26	190.00'
2227	54A+80.00	190.00'
2230	55A+20.00	105.64'
2231	61A+04.16	136.43'
2232	61A+25.31	125.15'
2233	61A+25.72	85.11'
2234	62A+63.16	47.17'
2261	56A+28.96	78.95'
2277	38D+34.93	3.20'
2280	54A+60.00	68.67'
2281	54A+80.00	105.00'
2282	56A+28.90	110.00'

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, MENOMINEE COUNTY, NAD 83 (2007) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT OF WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 3/4" x 24" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING RIGHT-OF-WAY FOR STH 47/55 IS ESTABLISHED BY PREVIOUS PROJECT 9650-08-21, CSM 136/V. 3/P. 183-184, CSM 89/ V. 1/P. 89 AND CSM 159/V. 2/P. 253-254. EXISTING RIGHT-OF-WAY FOR CAMPUS DRIVE IS ESTABLISHED BY CSM 136, VOL. 3, PG. 183-184.

EXISTING ACCESS CONTROL FOR STH 47/55 AND CAMPUS DRIVE ENTRANCE ESTABLISHED BY CSM 136/V. 3/P. 183-184.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NORTH CENTRAL REGION OFFICE IN RHINELANDER AND THE MENOMINEE COUNTY HIGHWAY DEPARTMENT.

TRANSPORTATION PROJECT PLAT NO: 9650-17-21 - 4.01

THAT PART OF PARCEL 1 OF CSM, VOLUME 1, PAGE 89 AND LOT 2 OF CSM 159, VOLUME 3, PAGE 253-254, LOCATED IN THE SW 1/4 OF THE SW 1/4, ALSO THAT PART OF LOT 1 OF CSM 136, VOLUME 3, PAGE 183-184, LOCATED IN THE SW 1/4 OF THE SW 1/4 AND THE SE 1/4 OF THE SW 1/4, ALL IN SECTION 36, TOWNSHIP 28 NORTH, RANGE 15 EAST, MENOMINEE INDIAN RESERVATION, MENOMINEE COUNTY, WISCONSIN.

RELOCATION ORDER STH 47/55, MENOMINEE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

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

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER (S)	INTEREST REQUIRED
50	FRONTIER COMMUNICATIONS OF WI LLC (TELEPHONE)	RELEASE OF RIGHTS
51	WISCONSIN POWER & LIGHT COMPANY, A WISCONSIN CORPORATION (ELECTRIC)	RELEASE OF RIGHTS

UTILITY INTEREST TABLE

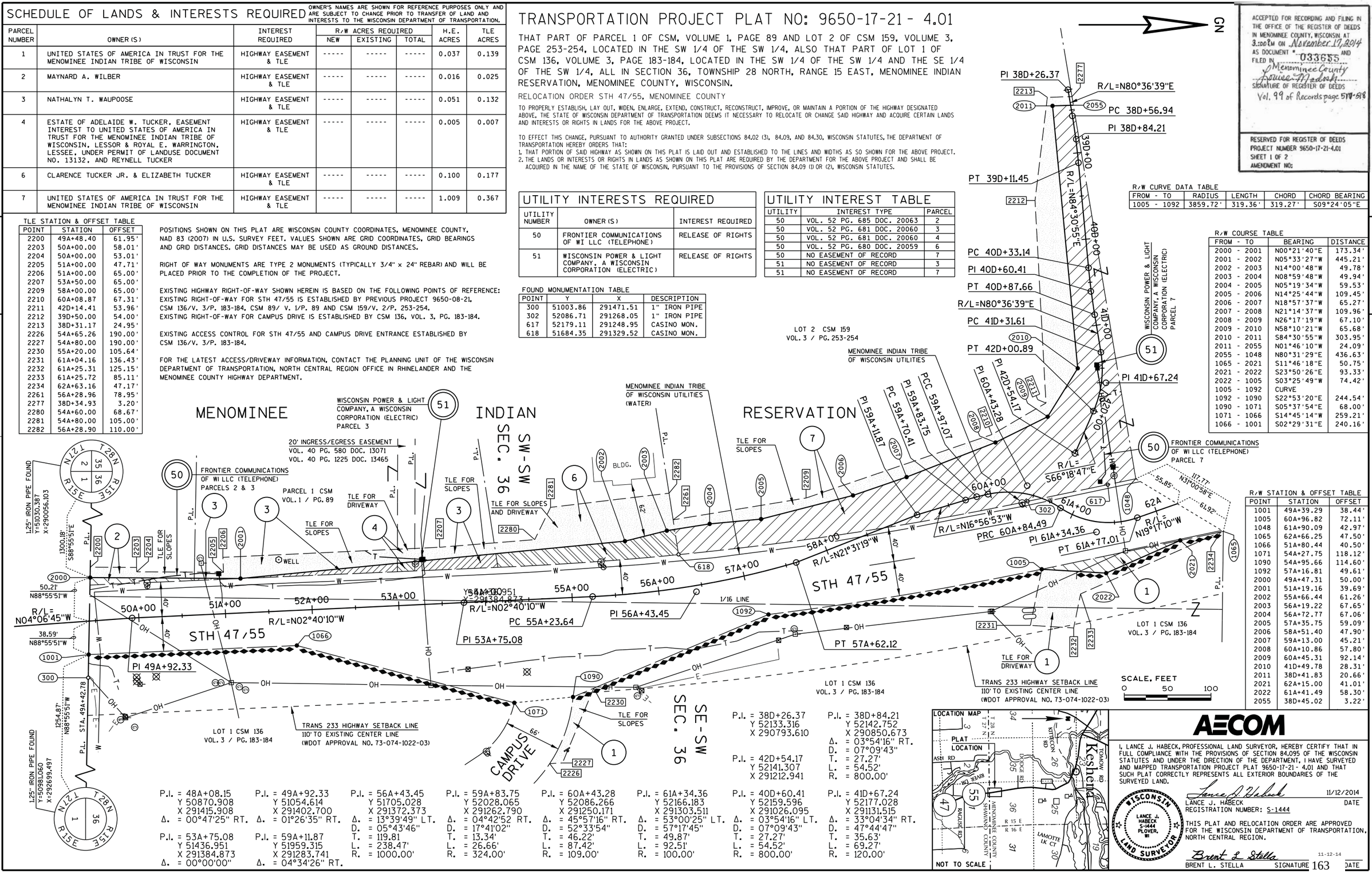
UTILITY	INTEREST TYPE	PARCEL
50	VOL. 52 PG. 685 DOC. 20063	2
50	VOL. 52 PG. 681 DOC. 20060	3
50	VOL. 52 PG. 681 DOC. 20060	4
50	VOL. 52 PG. 680 DOC. 20059	6
50	NO EASEMENT OF RECORD	7
51	NO EASEMENT OF RECORD	3
51	NO EASEMENT OF RECORD	7

FOUND MONUMENTATION TABLE

POINT	Y	X	DESCRIPTION
300	51003.86	291471.51	1" IRON PIPE
302	52086.71	291268.05	1" IRON PIPE
617	52179.11	291248.95	CASINO MON.
618	51684.35	291329.52	CASINO MON.

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN MENOMINEE COUNTY, WISCONSIN AT 3:00PM ON November 17, 2014 AS DOCUMENT # 033655 AND FILED IN Menominee County
Louise Madosh
SIGNATURE OF REGISTER OF DEEDS
Vol. 99 of Records page 517-518

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 9650-17-21-4.01
SHEET 1 OF 2
AMENDMENT NO:



R/W CURVE DATA TABLE

FROM - TO	RADIUS	LENGTH	CHORD	CHORD BEARING
1005 - 1092	3859.72'	319.36'	319.27'	S09°24'05"E

R/W COURSE TABLE

FROM - TO	BEARING	DISTANCE
2000 - 2001	N00°21'40"E	173.34'
2001 - 2002	N05°33'27"W	445.21'
2002 - 2003	N14°00'48"W	49.78'
2003 - 2004	N08°59'48"W	49.94'
2004 - 2005	N05°19'34"W	59.53'
2005 - 2006	N14°25'44"W	109.45'
2006 - 2007	N18°57'37"W	65.27'
2007 - 2008	N21°14'37"W	109.96'
2008 - 2009	N26°17'19"W	67.10'
2009 - 2010	N58°10'21"W	65.68'
2010 - 2011	S84°30'55"W	303.95'
2011 - 2055	N01°46'10"W	24.09'
2055 - 1048	N80°31'29"E	436.63'
1065 - 2021	S11°46'18"E	50.75'
2021 - 2022	S23°50'26"E	93.33'
2022 - 1005	S03°25'49"W	74.42'
1005 - 1092	CURVE	
1092 - 1090	S22°53'20"E	244.54'
1090 - 1071	S05°37'54"E	68.00'
1071 - 1066	S14°45'14"W	259.21'
1066 - 1001	S02°29'31"E	240.16'

R/W STATION & OFFSET TABLE

POINT	STATION	OFFSET
1001	49A+39.29	38.44'
1005	60A+96.82	72.11'
1048	61A+90.09	42.97'
1065	62A+66.25	47.50'
1066	51A+80.44	40.50'
1071	54A+27.75	118.12'
1090	54A+95.66	114.60'
1092	57A+16.81	49.61'
2000	49A+47.31	50.00'
2001	51A+19.16	39.69'
2002	55A+66.44	61.26'
2003	56A+19.22	67.65'
2004	56A+72.77	67.06'
2005	57A+35.75	59.09'
2006	58A+51.40	47.90'
2007	59A+13.00	45.21'
2008	60A+10.86	57.80'
2009	60A+45.31	92.14'
2010	41D+49.78	28.31'
2011	38D+41.83	20.66'
2021	62A+15.00	41.01'
2022	61A+41.49	58.30'
2055	38D+45.02	3.22'

P.I. = 48A+08.15 Y 50870.908 X 291415.908 Δ. = 00°47'25" RT.
P.I. = 49A+92.33 Y 51054.614 X 291402.700 Δ. = 01°26'35" RT.
P.I. = 53A+75.08 Y 51436.951 X 291384.873 Δ. = 00°00'00"
P.I. = 56A+43.45 Y 51705.028 X 291372.373 Δ. = 13°39'49" LT. D. = 05°43'46" T. = 119.81 L. = 238.47' R. = 1000.00'
P.I. = 59A+11.87 Y 51959.315 X 291283.741 Δ. = 04°34'26" RT.
P.I. = 59A+83.75 Y 52028.065 X 291262.790 Δ. = 04°42'52" RT. D. = 17°41'02" T. = 13.34' L. = 26.66' R. = 324.00'
P.I. = 60A+43.28 Y 52086.266 X 291250.171 Δ. = 45°57'16" RT. D. = 52°33'54" T. = 46.22' L. = 87.42' R. = 109.00'
P.I. = 61A+34.36 Y 52166.183 X 291303.511 Δ. = 53°00'25" LT. D. = 57°17'45" T. = 49.87' L. = 92.51' R. = 100.00'
P.I. = 38D+26.37 Y 52133.316 X 290793.610
P.I. = 42D+54.17 Y 52141.307 X 291212.941
P.I. = 40D+60.41 Y 52159.596 X 291026.095 Δ. = 03°54'16" LT. D. = 07°09'43" T. = 27.27' L. = 54.52' R. = 800.00'
P.I. = 38D+84.21 Y 52142.752 X 290850.673 Δ. = 03°54'16" RT. D. = 07°09'43" T. = 27.27' L. = 54.52' R. = 800.00'
P.I. = 41D+67.24 Y 52177.028 X 291131.515 Δ. = 33°04'34" RT. D. = 47°44'47" T. = 35.63' L. = 69.27' R. = 120.00'

LOCATION MAP
PLAT LOCATION
NOT TO SCALE
TOWNSHIP 28 N. RANGE 15 E. Keshena
MENOMINEE COUNTY SHAWANO COUNTY
ASH RD
RAGOUSE RD
KITTERON RD
MAPLE RD
LAMOTTE LK CT

AECOM

I, LANCE J. HABECK, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 9650-17-21 - 4.01 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

Lance J. Habeck 11/12/2014
LANCE J. HABECK DATE
REGISTRATION NUMBER: S-1444

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

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NORTH CENTRAL REGION.

Brent L. Stella 11-12-14
BRENT L. STELLA SIGNATURE 163 DATE

DOT COMPOSITE ORIGINAL LOCATED AT THE REGISTER OF DEEDS OFFICE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
TRANSPORTATION PROJECT PLAT TITLE SHEET
PROJECT NO. 9650-17-21
SHAWANO - NEOPIT
SHAWANO CO LINE TO DUQUAINE ROAD
STH 47
MENOMINEE COUNTY



THE NOTES, CONVENTIONAL SYMBOLS AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT FOR PROJECT 9650-17-21.

NOTES:

DISTANCES SHOWN FROM THE RIGHT OF WAY LINE TO BUILDINGS ARE APPROXIMATE ONLY.

PARCEL IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION AS NOTED ON THE SCHEDULE OF LANDS & INTERESTS REQUIRED.

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, MENOMINEE COUNTY, NAD 83 (2007) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES. GRID BEARINGS AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

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 R/W IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES.

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

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

RIGHT OF WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 3/4" x 24" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

A **HIGHWAY EASEMENT** 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 NECESSARY OR DESIRABLE.

A **TEMPORARY LIMITED EASEMENT** (TLE) IS A RIGHT FOR CONSTRUCTION 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 NECESSARY OR DESIRABLE. ALL TLE'S EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

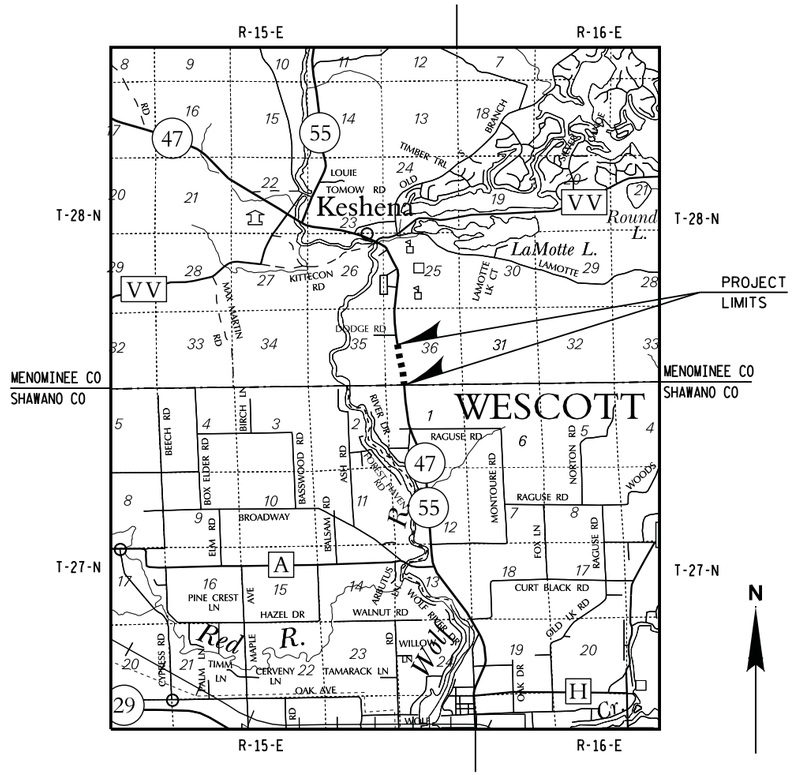
EXISTING HIGHWAY RIGHT OF WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
EXISTING RIGHT OF WAY FOR STH 47 IS ESTABLISHED FROM PREVIOUS PROJECT 9650-08-21, CSM V. 1/P. 88-88A, CSM V. 1/P. 89, CSM V. 1/P. 92, CSM V. 2/P. 68, CSM V. 2/P. 123-124, CSM V. 2/P. 194, CSM 306/V. 2/P. 306, CSM 69/V. 3/P. 79, CSM 101/V. 3/P. 121-122, CSM 110/V. 3/P. 137-138, CSM 136/V. 3/P. 183-184, CSM 159/V. 3/P. 253-254 AND CSM 199/V. 3/P. 334-335.

EXISTING RIGHT OF WAY FOR CAMPUS DRIVE IS ESTABLISHED BY CSM 136/V. 3/P. 183-184.
EXISTING RIGHT OF WAY FOR WILLIAM DUQUAINE ROAD IS ESTABLISHED BY CSM 101/V. 3/P. 121-122.
EXISTING RIGHT OF WAY FOR RICHARD DODGE ROAD IS ESTABLISHED BY CSM 101/V. 3/P. 121-122.
EXISTING RIGHT OF WAY FOR GO-AROUND ROAD ESTABLISHED BY DOCUMENT DATED 10/22/1992.

EXISTING ACCESS CONTROL FOR STH 47 ESTABLISHED BY CSM 110/V. 3/P. 137-138 AND CSM 136/V. 3/P. 183-184.

EXISTING TRANS 233 RESTRICTIONS AND SETBACKS ESTABLISHED BY CSM 101/V. 3/P. 121-122, CSM 110/V. 3/P. 137-138 AND CSM 136/V. 3/P. 183-184.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NORTH CENTRAL REGION OFFICE IN RHINELANDER AND THE MENOMINEE COUNTY HIGHWAY DEPARTMENT.



LAYOUT

SCALE 0 2 MI. 4 MI.

CONVENTIONAL SYMBOLS

- FOUND IRON PIPE/PIN I.P. (1" UNLESS NOTED)
- R/W MONUMENT ● (SET)
- R/W STANDARD △ ▲ (SET)
- NON-MONUMENT R/W POINT ○
- SIGN | SIGN
- SECTION CORNER MONUMENT
- HIGHWAY EASEMENT (HATCH VARIES)
- TEMPORARY LIMITED EASEMENT
- PERMANENT LIMITED EASEMENT
- R/W BOUNDARY POINT 100
- TEMPORARY EASEMENT POINT 100
- FOUND PROPERTY IRON 41
- PARCEL NUMBER 102
- UTILITY NUMBER 130
- PROPOSED R/W LINE
- EXISTING H.E. LINE
- PROPERTY LINE
- LOT & TIE LINES
- SLOPE INTERCEPTS
- CORPORATE LIMITS
- ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)
- ACCESS RESTRICTED (BY ACQUISTION)
- NO ACCESS (BY STATUTORY AUTHORITY)
- SECTION LINE
- QUARTER LINE
- SIXTEENTH LINE
- EXISTING CENTERLINE
- PROPOSED REFERENCE LINE
- PARALLEL OFFSET
- BUILDING
- BUILDING TO BE RAZED
- SIGN NUMBER (OFF PREMISE) 21-1

CONVENTIONAL ABBREVIATIONS

ACCESS POINT	AP	POINT OF CURVATURE	PC
ACCESS RIGHTS	AR	POINT OF INTERSECTION	PI
ACRES	AC.	POINT OF REVERSE CURVATURE	PRC
AGRICULTURAL P.D.	AGRI. PD.	PRIVATE DRIVEWAY	P.D.
AHEAD	AH	POINT ON TANGENT	POT
ALUMINUM	ALUM.	POINT OF TANGENCY	PT
AND OTHERS	ET.AL.	PROPERTY LINE	P.L.
BACK	BK	RECORDED AS	(100')
BLOCK	BLK	REFERENCE LINE	R/L
CENTERLINE	C/L	REMAINING	REM.
CERTIFIED SURVEY MAP	CSM	RIGHT	RT.
CONCRETE	CONC.	RIGHT OF WAY	R/W
CORNER	COR.	SECTION	SEC.
COUNTY	CO.	SEPTIC VENT	SEPV.
COUNTY TRUNK HIGHWAY	CTH	SQUARE FEET	S.F.
DIRECTION AHEAD	DA	STATE TRUNK HIGHWAY	STH
DIRECTION BACK	DB	STATION	STA.
DISTANCE	DIST.	SUBDIVISION	SUBD.
DOCUMENT NUMBER	DOC.	TANGENT	TAN.
EASEMENT	EASE.	TELEPHONE PEDESTAL	T.P.
EXISTING	EX.	TEMPORARY LIMITED EASEMENT	TLE
GAS VALVE	G.V.	TRANSPORTATION PROJECT PLAT	TPP
GOVERNMENT	GOV'T	UNITED STATES HIGHWAY	USH
GRID NORTH	GN	VOLUME	V.
HIGHWAY EASEMENT	H.E.		
IDENTIFICATION	ID.		
IRON PIPE	I.P.		
LAND CONTRACT	LC		
LEFT	LT.		
MONUMENT	MON.		
NUMBER	NO.		
OUTLOT	O.L.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
POINT OF BEGINNING	POB		
POINT OF COMPOUND CURVE	PCC		

CURVE DATA

LONG CHORD	L.C.
LONG CHORD BEARING	L.C.B.
RADIUS	R.
DEGREE OF CURVE	D.
CENTRAL ANGLE OR DELTA	Δ.
LENGTH OF CURVE	L.
TANGENT	T.
DIRECTION AHEAD	DA.
DIRECTION BACK	DB.

CONVENTIONAL UTILITY SYMBOLS

- WATER — W —
- GAS — G —
- TELEPHONE — T —
- OVERHEAD TRANSMISSION LINES — OH —
- ELECTRIC — E —
- CABLE TELEVISION — TV —
- FIBER OPTIC — FO —
- SANITARY SEWER — SAN —
- STORM SEWER — SS —
- SANITARY FORCE MAIN — FM —
- POWER POLE (NON COMPENSABLE / COMPENSABLE)
- TELEPHONE POLE
- UTILITY PEDESTAL
- ELECTRIC TOWER

HIGHWAY DESIGNATIONS

- COUNTY TRUNK HIGHWAY G
- STATE TRUNK HIGHWAY 67
- UNITED STATES HIGHWAY 51
- INTERSTATE HIGHWAY 39

PROJECT NUMBER 9650-17-21 - 4.01
SHEET 2 OF 2

DOT COMPOSITE ORIGINAL LOCATED AT THE REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 9650-17-21 - 4.02 AMENDMENT NO. 1

AMENDS THE SCHEDULE OF LANDS & INTERESTS REQUIRED OF TRANSPORTATION PROJECT PLAT 9650-17-21 - 4.02, RECORDED AS DOCUMENT 033744.

THAT PART OF PARCEL 2 OF CSM, VOLUME 1, PAGE 88-88A, LOT 1 OF CSM, VOLUME 2, PAGE 194, LOT 5 OF CSM 110, VOLUME 3, PAGE 137-138 AND LOT 1 OF CSM 159, VOLUME 3, PAGE 253-254 ALSO THAT PART OF THE SW 1/4 OF THE SW 1/4 AND THE NW 1/4 OF THE SW 1/4, ALL IN SECTION 36, TOWNSHIP 28 NORTH, RANGE 15 EAST, MENOMINEE INDIAN RESERVATION, MENOMINEE COUNTY, WISCONSIN.

RELOCATION ORDER STH 47/55, MENOMINEE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

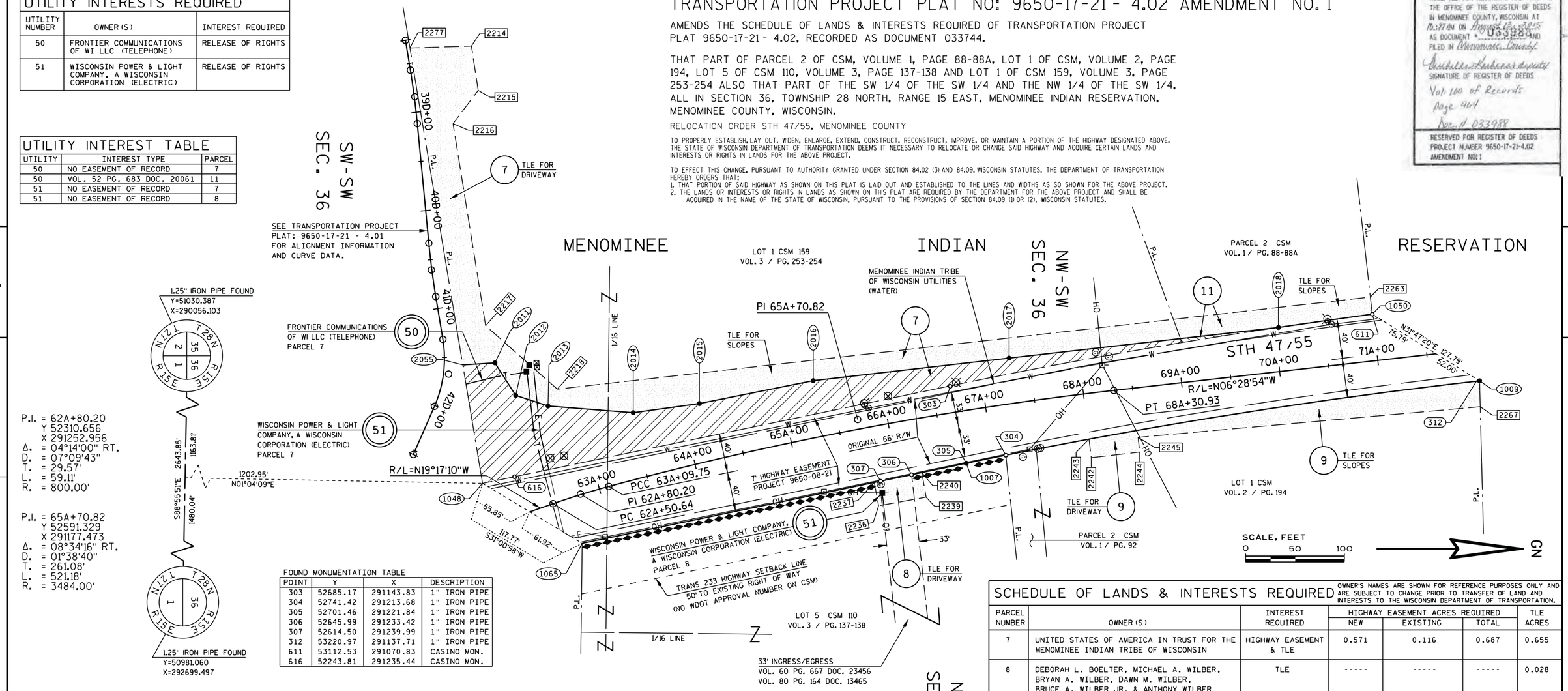
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN MENOMINEE COUNTY, WISCONSIN AT 10:27 AM ON August 13, 2015 AS DOCUMENT # 033988 AND FILED IN Menominee County
Kathleen Kaukanas deputy
SIGNATURE OF REGISTER OF DEEDS
Vol. 100 of Records
Page 464
Rec. # 033988

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 9650-17-21-4.02
AMENDMENT NO: 1

UTILITY INTERESTS REQUIRED		
UTILITY NUMBER	OWNER (S)	INTEREST REQUIRED
50	FRONTIER COMMUNICATIONS OF WI LLC (TELEPHONE)	RELEASE OF RIGHTS
51	WISCONSIN POWER & LIGHT COMPANY, A WISCONSIN CORPORATION (ELECTRIC)	RELEASE OF RIGHTS

UTILITY INTEREST TABLE		
UTILITY	INTEREST TYPE	PARCEL
50	NO EASEMENT OF RECORD	7
50	VOL. 52 PG. 683 DOC. 20061	11
51	NO EASEMENT OF RECORD	7
51	NO EASEMENT OF RECORD	8



FOUND MONUMENTATION TABLE				
POINT	Y	X	DESCRIPTION
303	52685.17	291143.83	1" IRON PIPE
304	52741.42	291213.68	1" IRON PIPE
305	52701.46	291221.84	1" IRON PIPE
306	52645.99	291233.42	1" IRON PIPE
307	52614.50	291239.99	1" IRON PIPE
312	53220.97	291137.71	1" IRON PIPE
611	53112.53	291070.83	CASINO MON.
616	52243.81	291235.44	CASINO MON.

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	HIGHWAY EASEMENT ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
7	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN	HIGHWAY EASEMENT & TLE	0.571	0.116	0.687	0.655
8	DEBORAH L. BOELTER, MICHAEL A. WILBER, BRYAN A. WILBER, DAWN M. WILBER, BRUCE A. WILBER JR. & ANTHONY WILBER EASE INTEREST TO THOMAS W. BOELTER & DEBORAH L. BOELTER, AND MICHAEL A. WILBER	TLE	-----	-----	-----	0.028
9	GUY KESHENA, A SINGLE PERSON, FOR AND ON BEHALF OF THE MENOMINEE INDIAN TRIBE OF WISCONSIN	TLE	-----	0.078	0.078	0.171
11	PAMELA R. GRIGNON	HIGHWAY EASEMENT & TLE	0.004	-----	0.004	0.089

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN MENOMINEE COUNTY AS SHEET 2 OF 2 OF DOCUMENT NO. 033655 AND FILED IN VOLUME 99, PAGE 517-518.

R/W CURVE DATA TABLE					
FROM - TO	RADIUS	LENGTH	CHORD	CHORD BEARING
2018 - 1050	5769.58'	95.96'	95.96'	N07°56'27"W
1009 - 1007	5689.58'	526.69'	526.50'	S09°07'11"E

R/W STATION & OFFSET TABLE		
POINT	STATION	OFFSET
1007	66A+71.67	52.86'
1009	72A+00.08	32.21'
1048	61A+90.09	42.97'
1050	70A+99.75	46.94'
1065	62A+66.25	47.50'
2011	41D+54.22	51.12'
2012	41D+74.20	75.74'
2013	62A+75.60	95.45'
2014	63A+52.30	65.98'
2015	64A+18.40	58.90'
2016	65A+34.02	57.00'
2017	67A+30.52	45.97'
2018	70A+03.82	44.50'
2055	41D+56.74	18.72'

R/W COURSE TABLE			
FROM - TO	BEARING	DISTANCE
1048 - 2055	S80°31'29"W	121.57'
2055 - 2011	N03°43'02"W	32.56'
2011 - 2012	N57°21'22"E	39.14'
2012 - 2013	N18°07'36"E	34.44'
2013 - 2014	N04°28'12"E	86.55'
2014 - 2015	N07°47'59"W	67.65'
2015 - 2016	N11°23'29"W	117.56'
2016 - 2017	N06°34'55"W	199.68'
2017 - 2018	N06°28'55"W	274.62'
2018 - 1050	CURVE	
1009 - 1007	CURVE	
1007 - 1065	S11°46'18"E	397.34'

TLE STATION & OFFSET TABLE		
POINT	STATION	OFFSET
2214	38D+43.00	65.00'
2215	38D+86.00	65.00'
2216	39D+15.00	36.00'
2217	41D+25.00	45.00'
2218	62A+88.00	109.00'
2236	65A+75.00	80.00'
2237	65A+75.00	55.97'
2239	66A+25.00	80.00'
2240	66A+25.00	54.69'
2242	68A+00.00	65.00'
2243	68A+00.00	46.03'
2244	68A+50.00	65.00'
2245	68A+50.00	50.00'
2263	70A+99.77	64.57'
2267	71A+97.79	58.34'
2277	38D+34.76	3.20'

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, MENOMINEE COUNTY, NAD 83 (2007) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

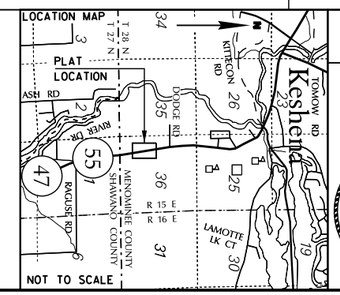
RIGHT OF WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 3/4" x 24" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING RIGHT-OF-WAY FOR STH 47/55 IS ESTABLISHED BY PREVIOUS PROJECT 9650-08-21, CSM 136/V. 3/P. 183-184. CSM 159/V. 3/P. 253-254, CSM V. 1/P. 88-88A, CSM V. 2/P. 194, CSM V. 1/P. 92 AND CSM 110/V. 3/P. 137-138.

EXISTING ACCESS CONTROL FOR STH 47/55 ESTABLISHED BY CSM 136/V. 3/P. 183-184 AND CSM 110/V. 3/P. 137-138.

TRANS 233 RESTRICTIONS AND SETBACKS ESTABLISHED BY CSM 136/V. 3/P. 183-184 AND CSM 110/V. 3/P. 137-138.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NORTH CENTRAL REGION OFFICE IN RHINELANDER AND THE MENOMINEE COUNTY HIGHWAY DEPARTMENT.



AECOM

I, LANCE J. HABECK, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 9650-17-21 - 4.02, AMENDMENT NO. 1 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

Lance J. Habeck 8/3/2015
LANCE J. HABECK DATE
REGISTRATION NUMBER: S-1444

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

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NORTH CENTRAL REGION.

Brent L Stella 8-4-15
BRENT L. STELLA SIGNATURE DATE

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\040102_rw_Amd_1.dgn PLOT DATE : PLOT DATE : 8/3/2015 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : 1:50
APPRAISAL PLAT DATE : 8-3-15

9650-17-21 4.02 AMENDMENT NO. 1

DOT COMPOSITE ORIGINAL LOCATED AT THE REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 9650-17-21 - 4.02

THAT PART OF PARCEL 2 OF CSM, VOLUME 1, PAGE 88-88A, LOT 1 OF CSM, VOLUME 2, PAGE 194, LOT 5 OF CSM 110, VOLUME 3, PAGE 137-138 AND LOT 1 OF CSM 159, VOLUME 3, PAGE 253-254 ALSO THAT PART OF THE SW 1/4 OF THE SW 1/4 AND THE NW 1/4 OF THE SW 1/4, ALL IN SECTION 36, TOWNSHIP 28 NORTH, RANGE 15 EAST, MENOMINEE INDIAN RESERVATION, MENOMINEE COUNTY, WISCONSIN.

RELOCATION ORDER STH 47/55, MENOMINEE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN MENOMINEE COUNTY, WISCONSIN AT 11:27 AM ON January 26, 2015 AS DOCUMENT # 0339441 AND FILED IN Menominee County
Shirley Kitchens, deputy
SIGNATURE OF REGISTER OF DEEDS
Vol. 99 of Records page 910

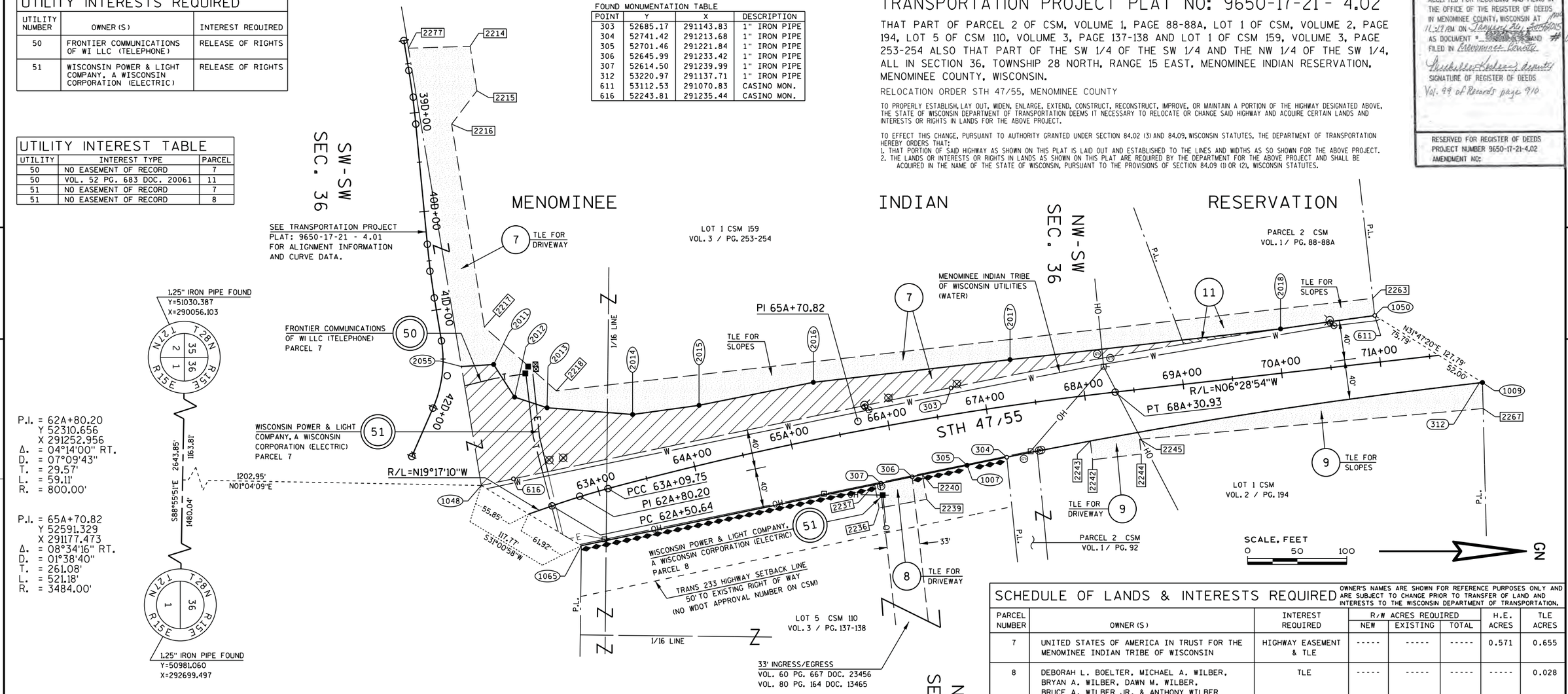
RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 9650-17-21-4.02
AMENDMENT NO:

UTILITY INTERESTS REQUIRED		
UTILITY NUMBER	OWNER (S)	INTEREST REQUIRED
50	FRONTIER COMMUNICATIONS OF WI LLC (TELEPHONE)	RELEASE OF RIGHTS
51	WISCONSIN POWER & LIGHT COMPANY, A WISCONSIN CORPORATION (ELECTRIC)	RELEASE OF RIGHTS

UTILITY INTEREST TABLE		
UTILITY	INTEREST TYPE	PARCEL
50	NO EASEMENT OF RECORD	7
50	VOL. 52 PG. 683 DOC. 20061	11
51	NO EASEMENT OF RECORD	7
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FOUND MONUMENTATION TABLE

POINT	Y	X	DESCRIPTION
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FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN MENOMINEE COUNTY AS SHEET 2 OF 2 OF DOCUMENT NO. 033655 AND FILED IN VOLUME 99, PAGE 517-518.

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	R/W ACRES REQUIRED EXISTING	R/W ACRES REQUIRED TOTAL	H.E. ACRES	TLE ACRES
7	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN	HIGHWAY EASEMENT & TLE	-----	-----	-----	0.571	0.655
8	DEBORAH L. BOELTER, MICHAEL A. WILBER, BRYAN A. WILBER, DAWN M. WILBER, BRUCE A. WILBER JR. & ANTHONY WILBER EASE INTEREST TO THOMAS W. BOELTER & DEBORAH L. BOELTER, AND MICHAEL A. WILBER	TLE	-----	-----	-----	-----	0.028
9	GUY KESHENA, A SINGLE PERSON, FOR AND ON BEHALF OF THE MENOMINEE INDIAN TRIBE OF WISCONSIN	TLE	-----	-----	-----	-----	0.171
11	PAMELA R. GRIGNON	HIGHWAY EASEMENT & TLE	-----	-----	-----	0.004	0.089

R/W CURVE DATA TABLE

FROM - TO	RADIUS	LENGTH	CHORD	CHORD BEARING
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R/W COURSE TABLE

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TLE STATION & OFFSET TABLE

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2263	70A+99.77	64.57'
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2277	38D+34.76	3.20'

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, MENOMINEE COUNTY, NAD 83 (2007) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

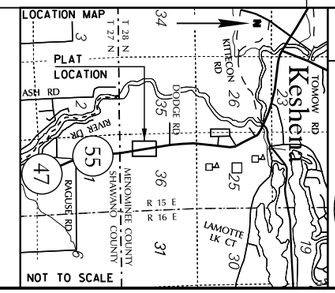
RIGHT OF WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 3/4" x 24" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING RIGHT-OF-WAY FOR STH 47/55 IS ESTABLISHED BY PREVIOUS PROJECT 9650-08-21, CSM 136/V. 3/P. 183-184. CSM 159/V. 3/P. 253-254, CSM V. 1/P. 88-88A, CSM V. 2/P. 194, CSM V. 1/P. 92 AND CSM 110/V. 3/P. 137-138.

EXISTING ACCESS CONTROL FOR STH 47/55 ESTABLISHED BY CSM 136/V. 3/P. 183-184 AND CSM 110/V. 3/P. 137-138.

TRANS 233 RESTRICTIONS AND SETBACKS ESTABLISHED BY CSM 136/V. 3/P. 183-184 AND CSM 110/V. 3/P. 137-138.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NORTH CENTRAL REGION OFFICE IN RHINELANDER AND THE MENOMINEE COUNTY HIGHWAY DEPARTMENT.



AECOM

I, LANCE J. HABECK, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 9650-17-21 - 4.02 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

Lance J. Habeck 1/15/2015
LANCE J. HABECK DATE
REGISTRATION NUMBER: S-1444

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

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NORTH CENTRAL REGION.

Brent L Stella 1-15-2015
BRENT L. STELLA SIGNATURE DATE

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\040102_rw.dgn PLOT DATE : PLOT DATE : 1/15/2015 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : 1:50
APPRAISAL PLAT DATE : 1-15-15

9650-17-21 4.02

DOT COMPOSITE ORIGINAL LOCATED AT THE REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 9650-17-21 - 4.03 AMENDMENT NO. 1

REMOVES PARCEL 5 AND PARCEL 10 AND REPLACES THEM WITH PARCEL 7 AND AMENDS THE SCHEDULE OF LANDS & INTERESTS REQUIRED AND UTILITY INTEREST TABLE OF TRANSPORTATION PROJECT PLAT 9650-17-21- 4.03, RECORDED AS DOCUMENT 033745.

PART OF PARCEL 1 OF CSM, VOL. 1, PG. 92, LOT 1 OF CSM, VOL. 2, PG. 68, LOT 1 OF CSM 106, VOL. 3, PG. 129-130, LOT 2 AND 3 CSM 69, VOL. 3, PG. 79, LOT 9 AND 10 OF CSM 101, VOL. 3, PG. 121-122, LOT 1 OF CSM 306, VOL. 2, PG. 306 AND LOT 2, 3 AND 4 OF CSM 199, VOL. 3, PG. 334-335, ALSO THAT PART OF THE NW 1/4 OF THE SW 1/4 AND THE SW 1/4 OF THE NW 1/4 OF SECTION 36, TOWNSHIP 28 NORTH, RANGE 15 EAST, MENOMINEE INDIAN RESERVATION, MENOMINEE COUNTY, WISCONSIN.

RELOCATION ORDER STH 47/55, MENOMINEE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN MENOMINEE COUNTY, WISCONSIN AT 10:12 AM ON August 26, 2015 AS DOCUMENT # 033789 AND FILED IN Menominee County
Michelle Hoskins, Deputy
SIGNATURE OF REGISTER OF DEEDS
Vol 100 of Records
page 965
Doc. # 033789

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 9650-17-21-4.03
AMENDMENT NO: 1

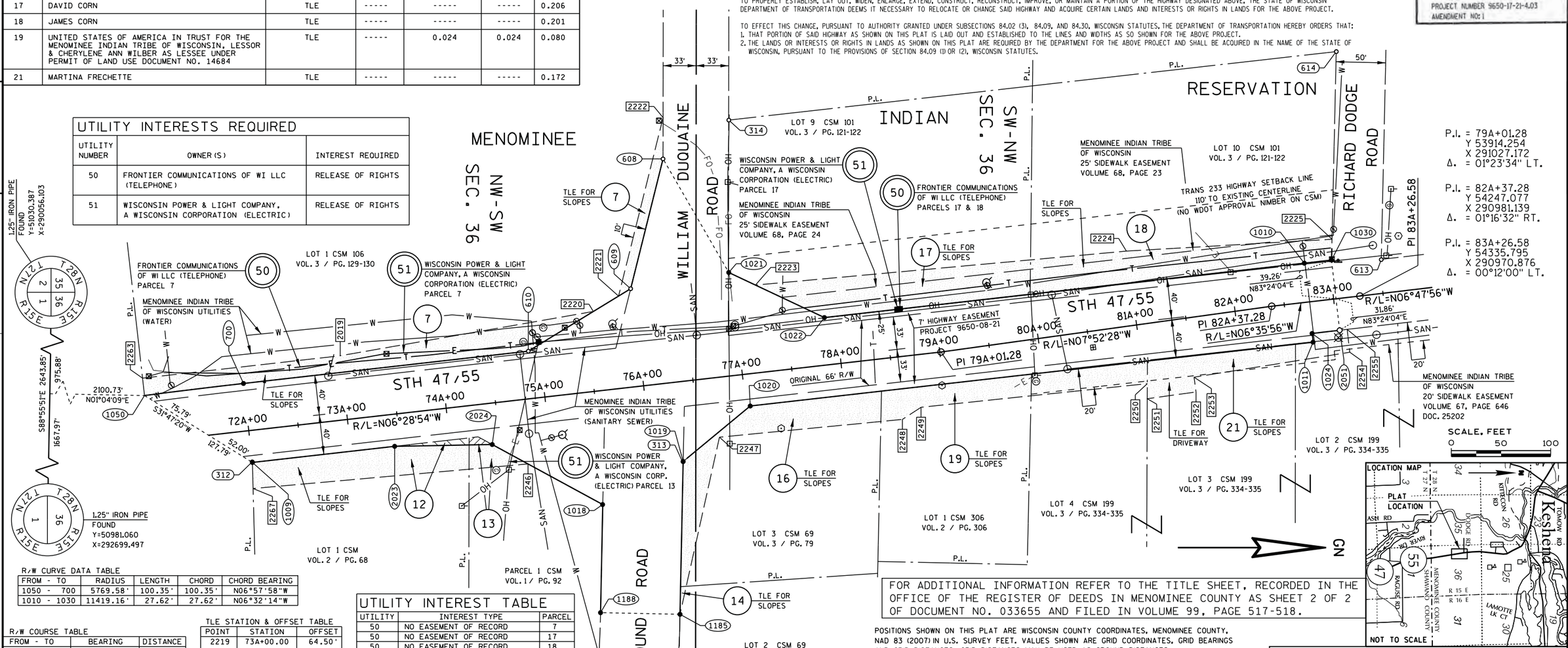
SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	HIGHWAY EASEMENT ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
7	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN	TLE	-----	0.130	-----	0.234
12	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN, LESSOR JEAN F BESAW, LESSEE	HIGHWAY EASEMENT & TLE	0.006	0.035	0.041	0.138
13	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN	HIGHWAY EASEMENT & TLE	0.003	0.142	0.145	0.022
14	ELMER D. WILBER & DAWN R. WILBER	TLE	-----	-----	-----	0.002
16	JOYLEN M. WHITNEY	TLE	-----	-----	-----	0.165
17	DAVID CORN	TLE	-----	-----	-----	0.206
18	JAMES CORN	TLE	-----	-----	-----	0.201
19	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN, LESSOR & CHERYLENE ANN WILBER AS LESSEE UNDER PERMIT OF LAND USE DOCUMENT NO. 14684	TLE	-----	0.024	0.024	0.080
21	MARTINA FRECHETTE	TLE	-----	-----	-----	0.172

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER (S)	INTEREST REQUIRED
50	FRONTIER COMMUNICATIONS OF WI LLC (TELEPHONE)	RELEASE OF RIGHTS
51	WISCONSIN POWER & LIGHT COMPANY, A WISCONSIN CORPORATION (ELECTRIC)	RELEASE OF RIGHTS



P.I. = 79A+01.28
Y 53914.254
X 291027.172
Δ. = 01°23'34" LT.

P.I. = 82A+37.28
Y 54247.077
X 290981.139
Δ. = 01°16'32" RT.

P.I. = 83A+26.58
Y 54335.795
X 290970.876
Δ. = 00°12'00" LT.

LOCATION MAP

R/W CURVE DATA TABLE

FROM - TO	RADIUS	LENGTH	CHORD	CHORD BEARING
1050 - 700	5769.58'	100.35'	100.35'	N06°57'58"W
1010 - 1030	11419.16'	27.62'	27.62'	N06°32'14"W

R/W COURSE TABLE

FROM - TO	BEARING	DISTANCE
1050 - 700	CURVE	
700 - 610	N06°28'04"W	288.53'
610 - 609	N31°23'47"W	120.66'
609 - 608	N75°59'41"W	134.61'
608 - 1021	N60°01'25"E	131.76'
1021 - 1022	N25°14'32"E	106.80'
1022 - 1010	N06°28'04"W	486.07'
1010 - 1030	CURVE	
2051 - 1024	S06°39'03"E	27.79'
1024 - 1011	N83°31'56"E	8.82'
1011 - 1020	S06°28'04"E	570.27'
1020 - 1019	S39°35'28"E	87.58'
1019 - 1185	S88°48'48"E	153.82'
1185 - 1188	S01°11'12"W	80.00'
1188 - 1018	N88°48'48"W	108.84'
1018 - 2024	S28°29'08"W	126.59'
2024 - 2023	S01°04'43"E	98.51'
2023 - 1009	S06°28'04"E	143.78'

TLE STATION & OFFSET TABLE

POINT	STATION	OFFSET
2219	73A+00.00	64.50'
2220	75A+58.12	80.00'
2221	75A+85.14	92.55'
2222	76A+49.92	265.94'
2223	77A+23.27	88.00'
2224	81A+00.00	75.00'
2225	83A+05.29	60.00'
2246	74A+75.51	65.00'
2247	76A+70.00	60.00'
2248	78A+55.00	63.00'
2249	78A+75.00	53.00'
2250	81A+02.56	60.00'
2251	81A+00.43	75.00'
2252	81A+50.00	75.00'
2253	81A+50.00	60.00'
2254	83A+10.00	55.00'
2255	83A+10.00	31.86'
2263	70A+99.77	64.57'
2267	71A+97.79	58.34'

UTILITY INTEREST TABLE

UTILITY	INTEREST TYPE	PARCEL
50	NO EASEMENT OF RECORD	7
50	NO EASEMENT OF RECORD	17
50	NO EASEMENT OF RECORD	18
51	NO EASEMENT OF RECORD	7
51	NO EASEMENT OF RECORD	13
51	NO EASEMENT OF RECORD	17
51	NO EASEMENT OF RECORD	18

R/W STATION & OFFSET TABLE

POINT	STATION	OFFSET	POINT	STATION	OFFSET
608	76A+45.17	224.65'	1021	76A+97.70	103.81'
609	75A+98.06	98.55'	1022	77A+88.54	47.65'
610	74A+88.63	47.72'	1024	82A+74.63	31.89'
700	72A+00.10	47.79'	1030	83A+02.42	39.26'
1009	72A+00.08	32.21'	1050	70A+99.75	46.94'
1010	82A+74.79	39.29'	1185	76A+10.44	232.62'
1011	82A+74.61	40.71'	1188	75A+31.16	221.94'
1018	75A+45.68	114.07'	2023	73A+43.86	32.24'
1019	76A+30.97	80.17'	2024	74A+41.94	41.52'
1020	77A+04.32	32.33'	2051	83A+02.42	31.86'

FOUND MONUMENTATION TABLE

POINT	Y	X	DESCRIPTION
312	53220.97	291137.71	1" IRON PIPE
313	53654.56	291137.47	1" IRON PIPE
314	53700.64	290793.83	1" IRON PIPE
610	53498.85	291026.34	1" IRON PIPE
613	54357.30	290934.21	1" IRON PIPE
614	54312.07	290724.90	1" IRON PIPE

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN MENOMINEE COUNTY AS SHEET 2 OF 2 OF DOCUMENT NO. 033655 AND FILED IN VOLUME 99, PAGE 517-518.

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, MENOMINEE COUNTY, NAD 83 (2007) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT OF WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 3/4" x 24" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
EXISTING RIGHT-OF-WAY FOR STH 47/55 IS ESTABLISHED BY PREVIOUS PROJECT 9650-08-21, CSM 69/V. 3/P. 79, CSM 306/V. 2/P. 306, CSM 199/V. 3/P. 334-335, CSM 101/V. 3/P. 121-122, CSM V. 2/P. 68, CSM V. 2/P. 123-124 AND CSM V. 1/P. 88-88A.
EXISTING RIGHT-OF-WAY FOR WILLIAM DUQUAINE ROAD IS ESTABLISHED BY CSM 101/V. 3/P. 121-122.
EXISTING RIGHT-OF-WAY FOR RICHARD DODGE ROAD IS ESTABLISHED BY CSM 101/V. 3/P. 121-122.
EXISTING RIGHT-OF-WAY FOR GO-AROUND ROAD IS ESTABLISHED BY DOCUMENT DATED 10/22/1992.

TRANS 233 RESTRICTIONS AND SETBACKS ESTABLISHED BY CSM 101/V. 3/P. 121-122.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NORTH CENTRAL REGION OFFICE IN RHINELANDER AND THE MENOMINEE COUNTY HIGHWAY DEPARTMENT.

AECOM

I, LANCE J. HABECK, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 9650-17-21 - 4.03 AMENDMENT NO. 1 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

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

Lance J. Habeck 8/3/2015
LANCE J. HABECK DATE
REGISTRATION NUMBER: S-1444

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

Brent L. Stella 8-4-15
BRENT L. STELLA SIGNATURE DATE

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\040103_rw_Amd_1.dgn PLOT DATE :
APPRAISAL PLAT DATE : 8-3-15
PLOT DATE : 8/3/2015 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : 1:50

DOT COMPOSITE ORIGINAL LOCATED AT THE REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 9650-17-21 - 4.03

THAT PART OF PARCEL 1 OF CSM, VOL. 1, PG. 88-88A, PARCEL 1 OF CSM, VOL. 1, PG. 92, LOT 1 OF CSM, VOL. 2, PG. 68, LOT 1 OF CSM, VOL. 2, PG. 123-124, LOT 2 AND 3 CSM 69, VOL. 3, PG. 79, LOT 9 AND 10 OF CSM 101, VOL. 3, PG. 121-122, LOT 1 OF CSM 306, VOL. 2, PG. 306 AND LOT 2, 3 AND 4 OF CSM 199, VOL. 3, PG. 334-335, ALSO THAT PART OF THE NW 1/4 OF THE SW 1/4 AND THE SW 1/4 OF THE NW 1/4 OF SECTION 36, TOWNSHIP 28 NORTH, RANGE 15 EAST, MENOMINEE INDIAN RESERVATION, MENOMINEE COUNTY, WISCONSIN.

RELOCATION ORDER STH 47/55, MENOMINEE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN MENOMINEE COUNTY, WISCONSIN AT 11:20 AM ON January 16, 2015 AS DOCUMENT # 033745 AND FILED IN Menominee County.
Michelle Kaukas, Deputy
SIGNATURE OF REGISTER OF DEEDS
Vol 99 of Records page 911

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 9650-17-21-4.03
AMENDMENT NO:

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

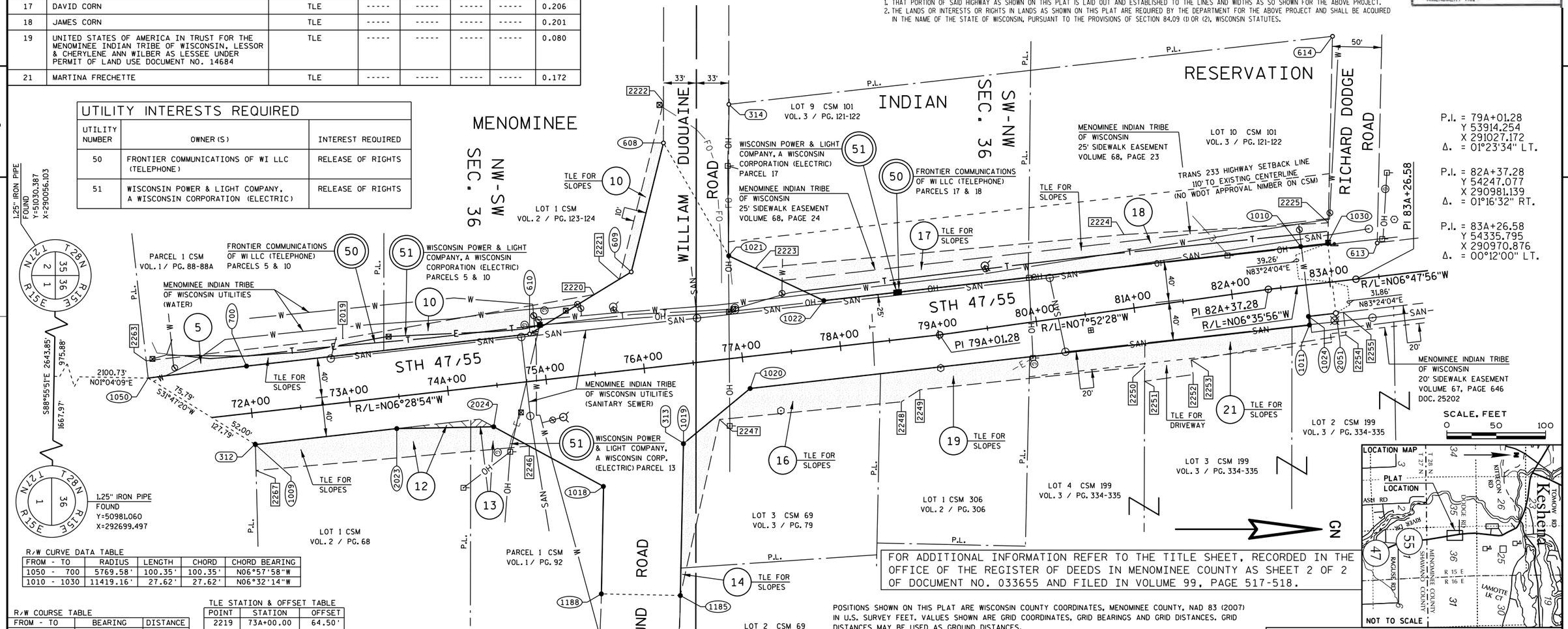
PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	H.E. ACRES	TLE ACRES
5	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN	TLE	-----	-----	-----	-----	0.094
10	FORESTEDGE BUILDING SUPPLY, INC.	TLE	-----	-----	-----	-----	0.140
12	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN, LESSOR JEAN F BESAW, LESSEE	HIGHWAY EASEMENT & TLE	-----	-----	-----	0.006	0.138
13	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN	HIGHWAY EASEMENT & TLE	-----	-----	-----	0.003	0.022
14	ELMER D. WILBER & DAWN R. WILBER	TLE	-----	-----	-----	-----	0.002
16	CHRISTOPHER A. PEETERS & LOIS J. PEETERS	TLE	-----	-----	-----	-----	0.165
17	DAVID CORN	TLE	-----	-----	-----	-----	0.206
18	JAMES CORN	TLE	-----	-----	-----	-----	0.201
19	UNITED STATES OF AMERICA IN TRUST FOR THE MENOMINEE INDIAN TRIBE OF WISCONSIN, LESSOR & CHERYLENE ANN WILBER AS LESSEE UNDER PERMIT OF LAND USE DOCUMENT NO. 14684	TLE	-----	-----	-----	-----	0.080
21	MARTINA FRECHETTE	TLE	-----	-----	-----	-----	0.172

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER (S)	INTEREST REQUIRED
50	FRONTIER COMMUNICATIONS OF WI LLC (TELEPHONE)	RELEASE OF RIGHTS
51	WISCONSIN POWER & LIGHT COMPANY, A WISCONSIN CORPORATION (ELECTRIC)	RELEASE OF RIGHTS

R/W STATION & OFFSET TABLE

POINT	STATION	OFFSET	POINT	STATION	OFFSET
608	76A+45.17	224.65'	1021	76A+97.70	103.81'
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1009	72A+00.08	32.21'	1050	70A+99.75	46.94'
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R/W CURVE DATA TABLE

FROM - TO	RADIUS	LENGTH	CHORD	CHORD BEARING
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R/W COURSE TABLE

FROM - TO	BEARING	DISTANCE
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1021 - 1022	N25°14'32"E	106.80'
1022 - 1010	N06°28'04"W	486.07'
1010 - 1030	CURVE	
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1024 - 1011	N83°31'56"E	8.82'
1011 - 1020	S06°28'04"E	570.27'
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1019 - 1185	S88°48'48"E	153.82'
1185 - 1188	S01°11'12"W	80.00'
1188 - 1018	N88°48'48"W	108.84'
1018 - 2024	S28°29'08"W	126.59'
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TLE STATION & OFFSET TABLE

POINT	STATION	OFFSET
2219	73A+00.00	64.50'
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2246	74A+75.51	65.00'
2247	76A+70.00	60.00'
2248	78A+55.00	63.00'
2249	78A+75.00	53.00'
2250	81A+02.56	60.00'
2251	81A+00.43	75.00'
2252	81A+50.00	75.00'
2253	81A+50.00	60.00'
2254	83A+10.00	55.00'
2255	83A+10.00	31.86'
2263	70A+99.77	64.57'
2267	71A+97.79	58.34'

UTILITY INTEREST TABLE

UTILITY	INTEREST TYPE	PARCEL
50	NO EASEMENT OF RECORD	5
50	NO EASEMENT OF RECORD	10
50	NO EASEMENT OF RECORD	17
50	NO EASEMENT OF RECORD	18
51	NO EASEMENT OF RECORD	5
51	NO EASEMENT OF RECORD	10
51	NO EASEMENT OF RECORD	13
51	NO EASEMENT OF RECORD	17
51	NO EASEMENT OF RECORD	18

FOUND MONUMENTATION TABLE

POINT	Y	X	DESCRIPTION
312	53220.97	291137.71	1" IRON PIPE
313	53654.56	291137.47	1" IRON PIPE
314	53700.64	290793.83	1" IRON PIPE
610	53498.85	291026.34	1" IRON PIPE
613	54357.30	290934.21	1" IRON PIPE
614	54312.07	290724.90	1" IRON PIPE

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, MENOMINEE COUNTY, NAD 83 (2007) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT OF WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 3/4" x 24" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
EXISTING RIGHT-OF-WAY FOR STH 47/55 IS ESTABLISHED BY PREVIOUS PROJECT 9650-08-21, CSM 69/V. 3/P. 79, CSM 306/V. 2/P. 306, CSM 199/V. 3/P. 334-335, CSM 101/V. 3/P. 121-122, CSM V. 2/P. 68, CSM V. 2/P. 123-124 AND CSM V. 1/P. 88-88A.
EXISTING RIGHT-OF-WAY FOR WILLIAM DUQUAINE ROAD IS ESTABLISHED BY CSM 101/V. 3/P. 121-122.
EXISTING RIGHT-OF-WAY FOR RICHARD DODGE ROAD IS ESTABLISHED BY CSM 101/V. 3/P. 121-122.
EXISTING RIGHT-OF-WAY FOR GO-AROUND ROAD IS ESTABLISHED BY DOCUMENT DATED 10/22/1992.

TRANS 233 RESTRICTIONS AND SETBACKS ESTABLISHED BY CSM 101/V. 3/P. 121-122.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NORTH CENTRAL REGION OFFICE IN RHINELANDER AND THE MENOMINEE COUNTY HIGHWAY DEPARTMENT.

AECOM

I, LANCE J. HABECK, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 9650-17-21 - 4.03 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

Lance J. Habeck 1/15/2015
LANCE J. HABECK DATE
REGISTRATION NUMBER: S-1444

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

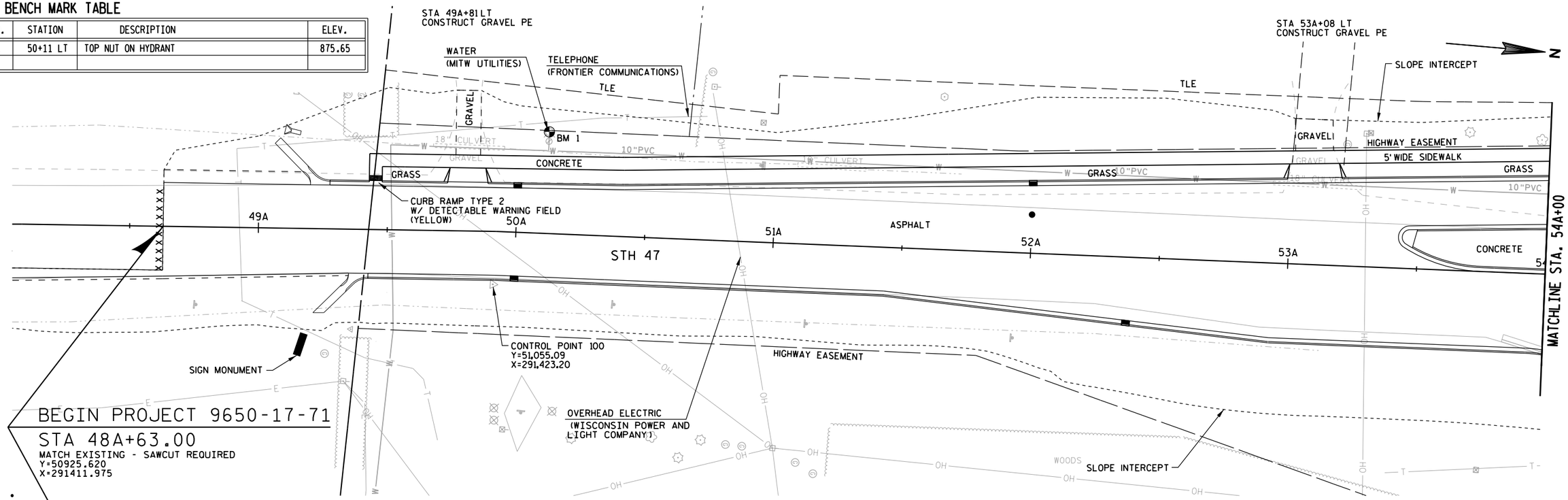
Brent L. Stella 1-15-2015
BRENT L. STELLA SIGNATURE DATE

9650-17-21 4.03

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\040103_rw.dgn PLOT DATE : PLOT DATE : 1/15/2015 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : 1:50
APPRAISAL PLAT DATE : 1-15-15

BENCH MARK TABLE

NO.	STATION	DESCRIPTION	ELEV.
1	50+11 LT	TOP NUT ON HYDRANT	875.65



PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE - STH 47	SHEET 169 E

FILE NAME: l:\work\projects\60158808\000.cad\001_drawings\sheets\050101_pp.dgn
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PLOT DATE: 11/1/2017
PLOT TIME: 7:40:54 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 40

BENCH MARK TABLE

NO.	STATION	DESCRIPTION	ELEV.
3	55+35 LT	TOP NUT ON HYDRANT	886.37

STA 54A+78 LT
CONSTRUCT ASPHALT PE

MATCHLINE STA. 54A+00

MATCHLINE STA. 60A+00

TLE

ASPHALT

SLOPE INTERCEPT

COLORING CONCRETE
WisDOT RED

WATER
(MITW UTILITIES)

GRASS

CONCRETE

GRASS

5' WIDE SIDEWALK

HIGHWAY EASEMENT

8' WIDE SIDEWALK

W 10"PVC W

BM 3

GRAVEL

WOODS

CONCRETE

ASPHALT

55A

56A

57A

58A

59A

STH 47

GRASS

5' WIDE SIDEWALK

CONCRETE

CAMPUS DRIVE

① CURB RAMP TYPE 5
W/ DETECTABLE WARNING FIELD
(YELLOW)

② CURB RAMP TYPE 7B
W/ DETECTABLE WARNING FIELD
(YELLOW)

TELEPHONE
(FRONTIER COMMUNICATIONS)

OVERHEAD ELECTRIC
(WISCONSIN POWER AND
LIGHT COMPANY)

SLOPE INTERCEPT

HIGHWAY EASEMENT

P.I. 55A+69.92
EL. 887.64

HIGH PT. 55A+83.49
EL. 883.69

EXISTING GROUND @ REFERENCE LINE

PROPOSED GRADE @ REFERENCE LINE

SSD=628'
K=183
760' V.C.

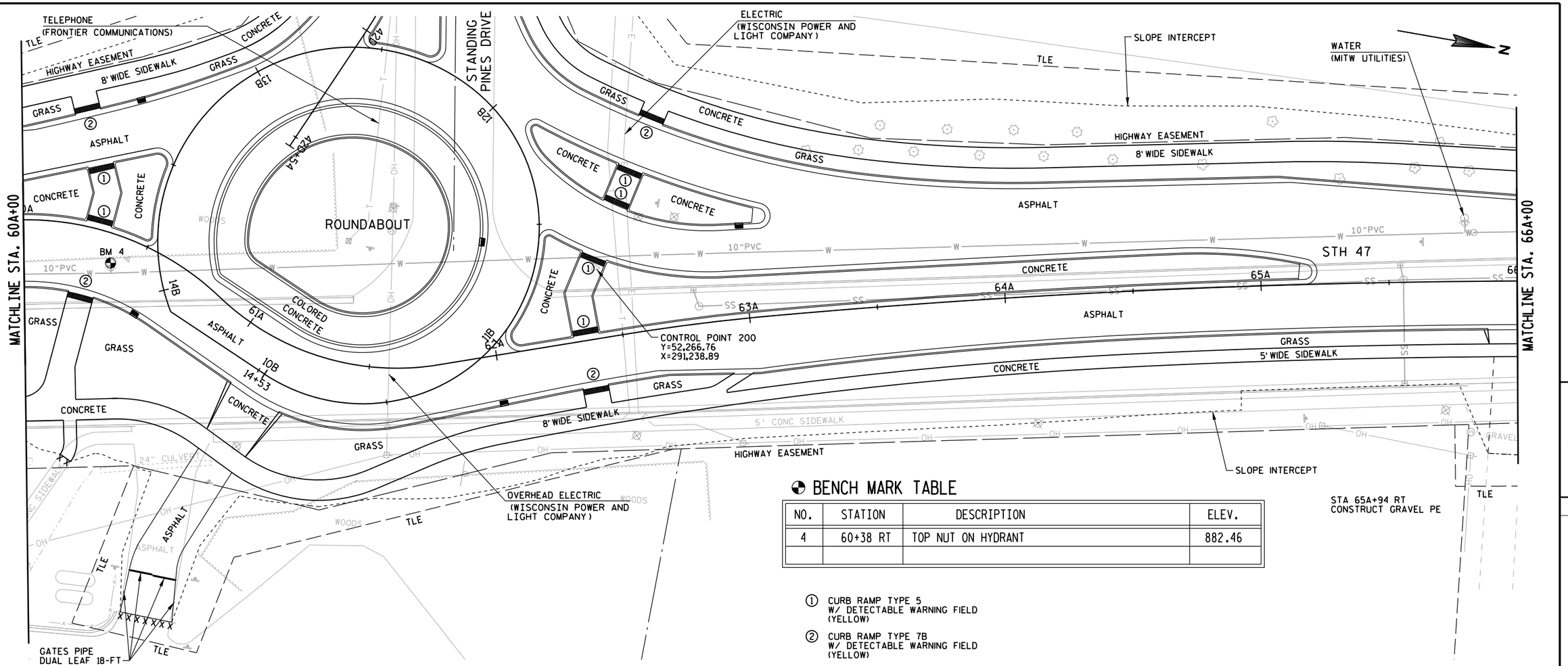
P.I. 59A+49.92
EL. 880.01

883.4	882.77	884.3	883.20	884.6	883.50	884.9	883.66	885.2	883.68	885.0	883.57	884.6	883.32	884.0	882.93	883.1	882.41	882.5	881.74	881.2	880.95	880.4	880.01	879.6	879.01

54A+00 55A+00 56A+00 57A+00 58A+00 59A+00 60A+00

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE - STH 47	SHEET	E

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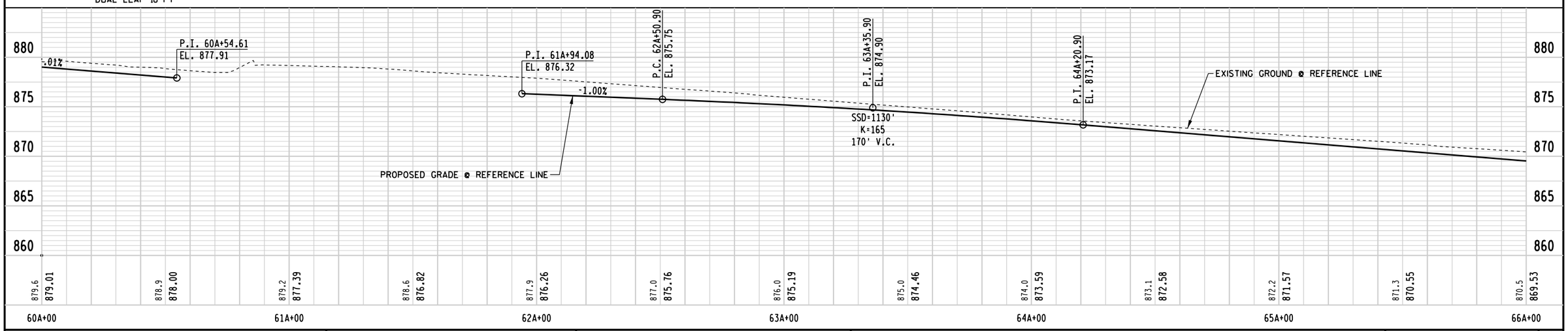


BENCH MARK TABLE

NO.	STATION	DESCRIPTION	ELEV.
4	60+38 RT	TOP NUT ON HYDRANT	882.46

① CURB RAMP TYPE 5
W/ DETECTABLE WARNING FIELD
(YELLOW)

② CURB RAMP TYPE 7B
W/ DETECTABLE WARNING FIELD
(YELLOW)



PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE - STH 47	SHEET 171	E

MATCHLINE STA. 66A+00

MATCHLINE STA. 72A+00

OVERHEAD ELECTRIC (WISCONSIN POWER AND LIGHT COMPANY)

CONTROL POINT 104
Y=52,870.99
X=291,121.00

STA 69A+14 LT
CONSTRUCT GRAVEL PE

SLOPE INTERCEPT

WATER (MITW UTILITIES)

ELECTRIC (WISCONSIN POWER AND LIGHT COMPANY)

TELEPHONE (FRONTIER COMMUNICATIONS)

BM 5

TLE

HIGHWAY EASEMENT

8' WIDE SIDEWALK

5' WIDE SIDEWALK

GRASS

CONCRETE

ASPHALT

STH 47

67A 68A 69A 70A 71A

10"PVC

10" HDPE

15" CULVERT

18" CULVERT

5' CONC SIDEWALK

GRAVEL

WOODS

STA 68A+24 RT
CONSTRUCT ASPHALT PE
CULVERT TO REMAIN
SAWCUT REQ'D

STA 71A+63 RT
CONSTRUCT GRAVEL PE

SLOPE INTERCEPT

BENCH MARK TABLE

NO.	STATION	DESCRIPTION	ELEV.
5	70+54 LT	TOP NUT ON HYDRANT	862.47

EXISTING GROUND @ REFERENCE LINE

PROPOSED GRADE @ REFERENCE LINE

-2.03%

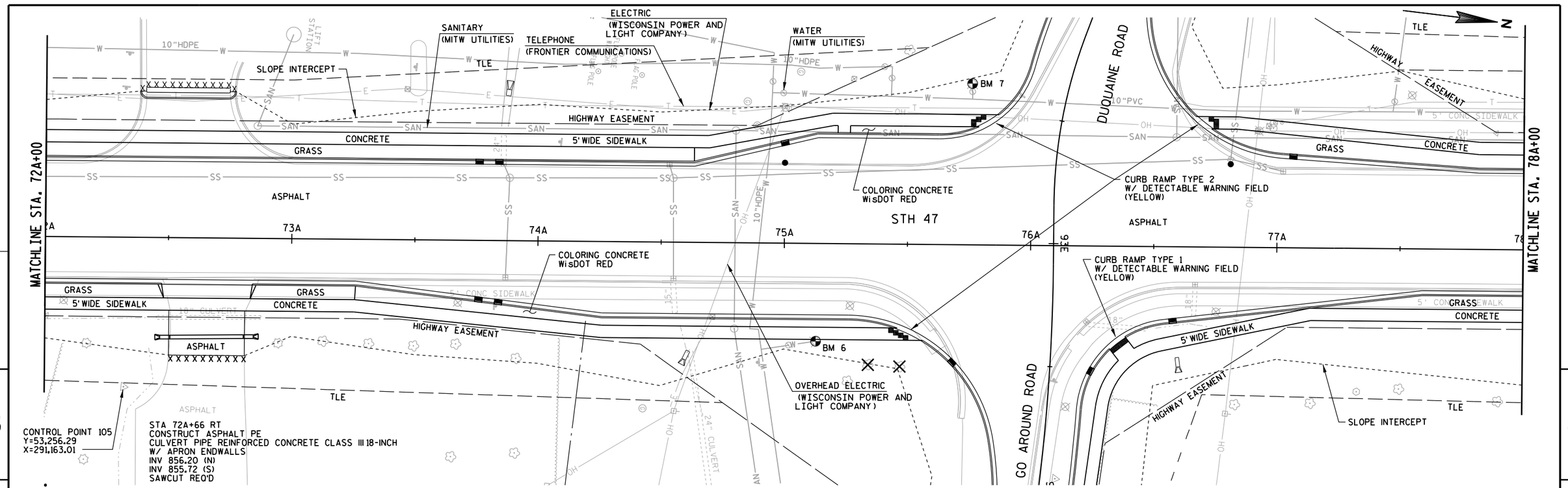
P.C. 70A+57.48
EL. 860.24

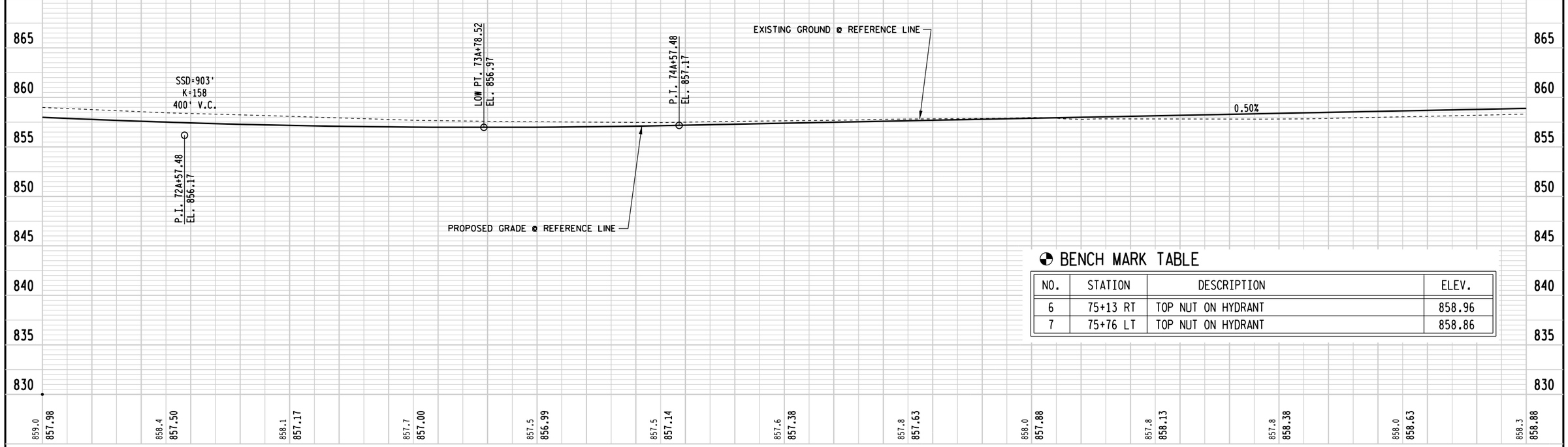
875 870 865 860 855 850 845 840

870.5 869.53 | 869.7 868.52 | 868.6 867.50 | 867.5 866.49 | 866.5 865.47 | 865.4 864.45 | 864.4 863.44 | 863.2 862.42 | 862.1 861.41 | 861.2 860.39 | 860.3 859.43 | 859.5 858.63 | 859.0 857.98

66A+00 67A+00 68A+00 69A+00 70A+00 71A+00 72A+00

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE - STH 47	SHEET 172 E

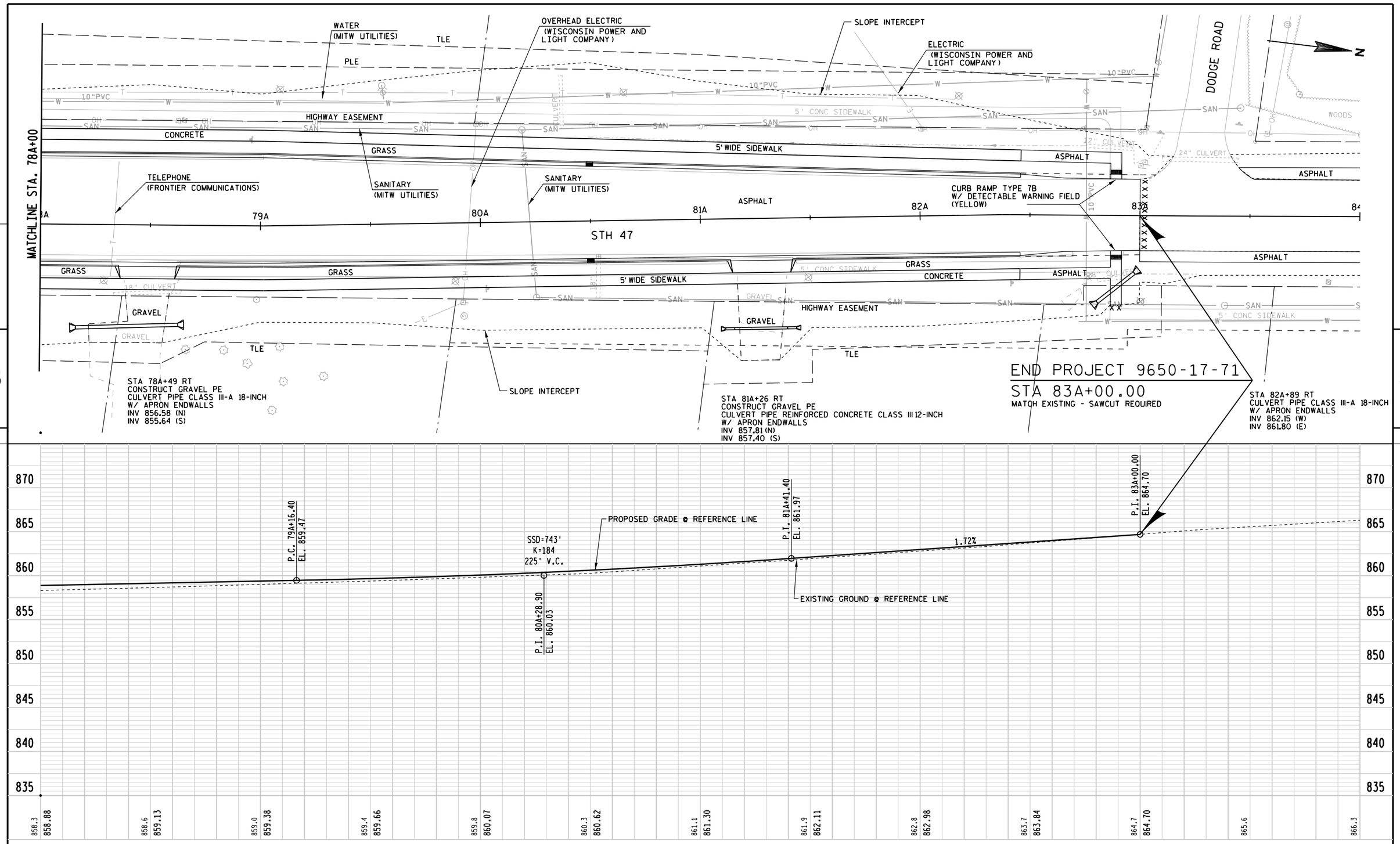




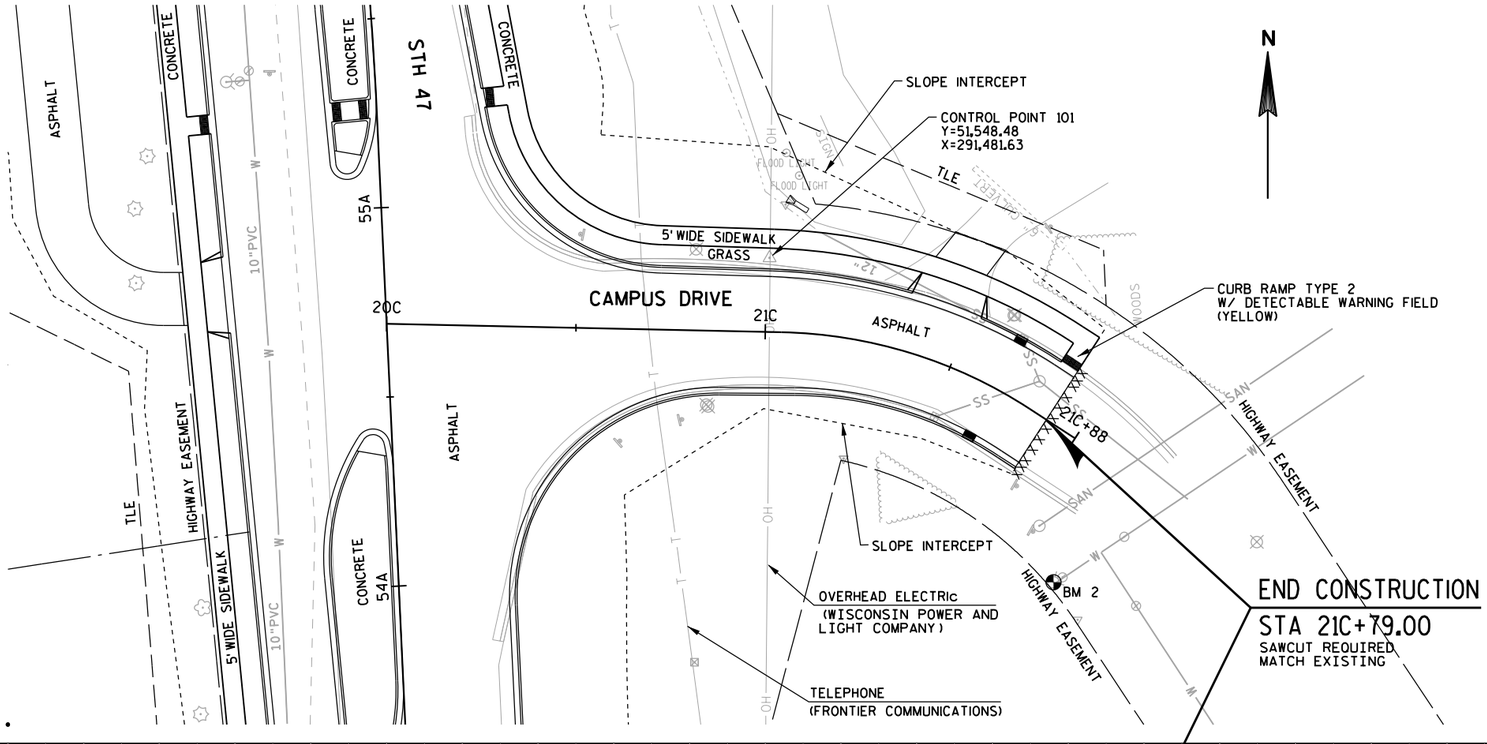
BENCH MARK TABLE

NO.	STATION	DESCRIPTION	ELEV.
6	75+13 RT	TOP NUT ON HYDRANT	858.96
7	75+76 LT	TOP NUT ON HYDRANT	858.86

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE - STH 47	SHEET 173 E

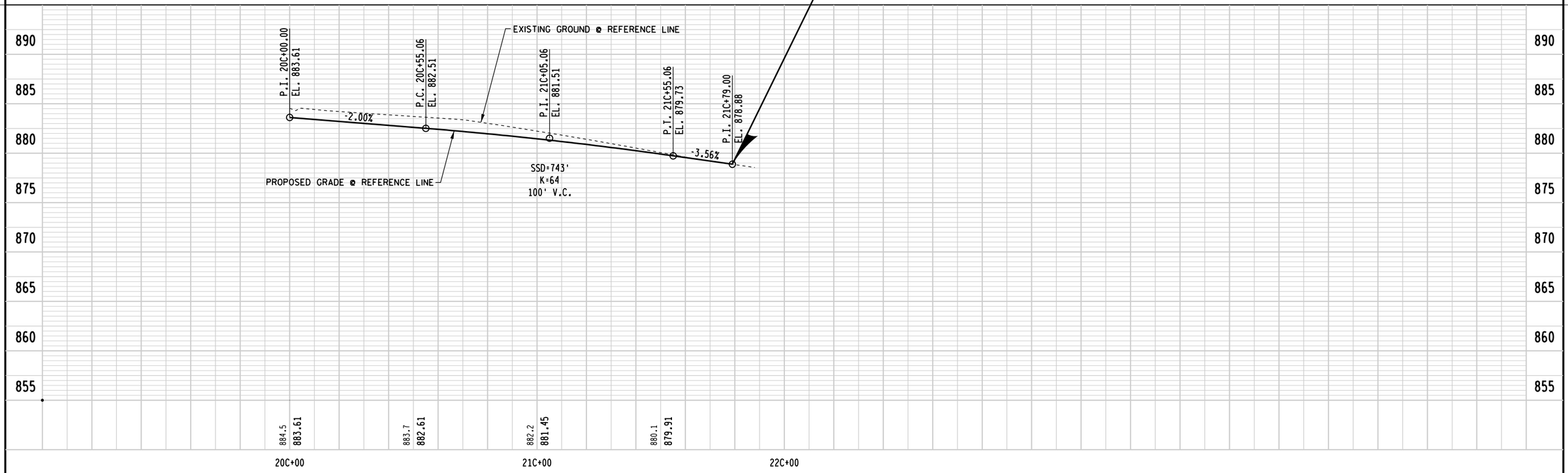


PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE - STH 47	SHEET 174	E

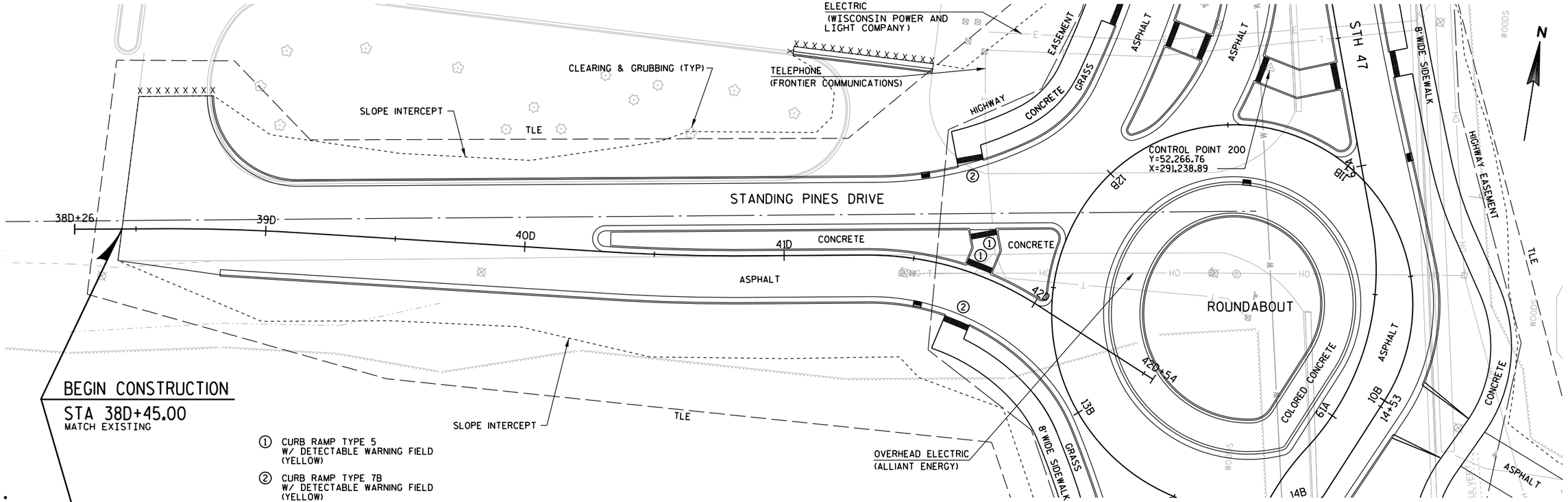


BENCH MARK TABLE

NO.	STATION	DESCRIPTION	ELEV.
2	53+93 RT	TOP NUT ON HYDRANT	881.15



PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE - CAMPUS DRIVE	SHEET 175	E



PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE - STANDING PINES DRIVE	SHEET 176	E

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PLOT TIME: 7:41:14 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 40

STA 90E+34 LT
CONSTRUCT GRAVEL PE
REMOVE SMALL PIPE CULVERT

FIBER OPTIC
(FRONTIER COMMUNICATIONS)

HIGHWAY EASEMENT

OE

DUQUAINE ROAD

91E

ASPHALT

92E

HIGHWAY EASEMENT

TLE

SLOPE INTERCEPT

SANITARY
(MITW UTILITIES)

WATER
(MITW UTILITIES)

TELEPHONE
(FRONTIER COMMUNICATIONS)

5' WIDE SIDEWALK

77A

76A

STH 47

OVERHEAD ELECTRIC
(WISCONSIN POWER AND
LIGHT COMPANY)

HIGHWAY EASEMENT

TLE

CONTROL POINT 107
Y=53,636.21
X=291,154.08

STA 95E+92 LT
CONSTRUCT GRAVEL PE

5' WIDE SIDEWALK

94E

93E

95E

GO AROUND ROAD

ASPHALT

MATCHLINE STA. 96E+00

SLOPE INTERCEPT

HIGHWAY EASEMENT

5' WIDE SIDEWALK

24" CULVERT

N

5

BEGIN CONSTRUCTION
STA 90E+21.00
SAWCUT REQUIRED
MATCH EXISTING

P.I. 90E+21.00
EL. 855.00

P.C. 91E+24.72
EL. 855.52

P.I. 91E+77.22
EL. 855.78

P.T. 92E+29.72
EL. 856.83

P.I. 92E+92.80
EL. 858.09

P.C. 93E+12.00
EL. 857.71

P.I. 93E+37.00
EL. 857.21

LOW PT. 93E+50.77
EL. 857.32

P.I. 93E+62.00
EL. 857.35

0.50%

2.00%

-2.00%

0.58%

SSD=330'
K=70
105' V.C.

SSD=319'
K=19
50' V.C.

EXISTING GROUND ℄ REFERENCE LINE

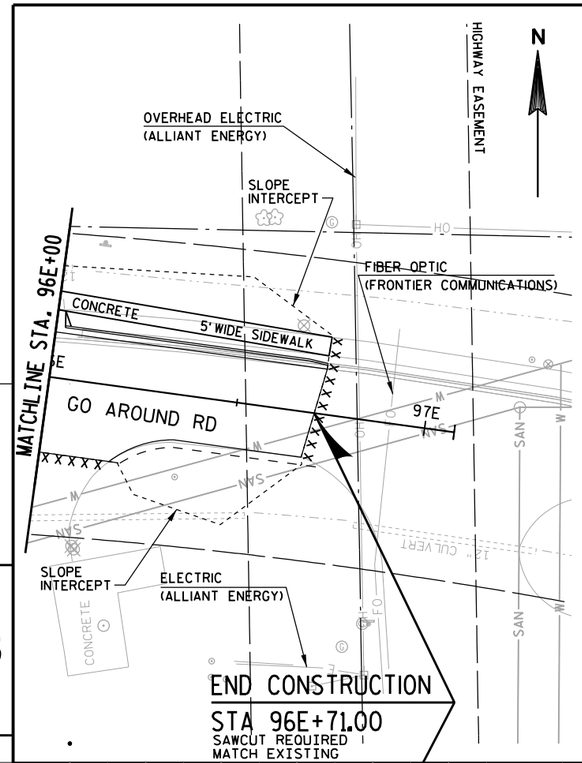
PROPOSED GRADE ℄ REFERENCE LINE

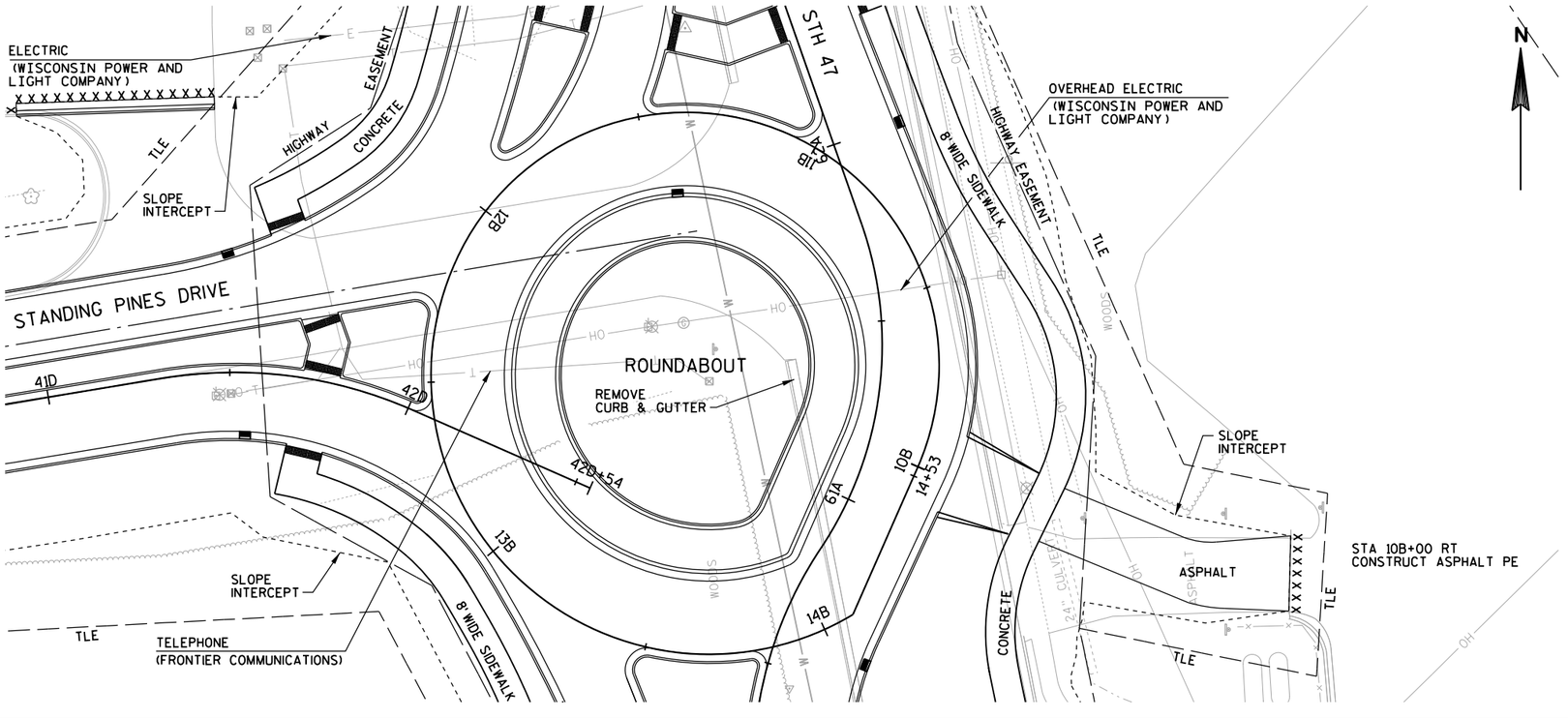
865 860 855 850 845 840 835 830

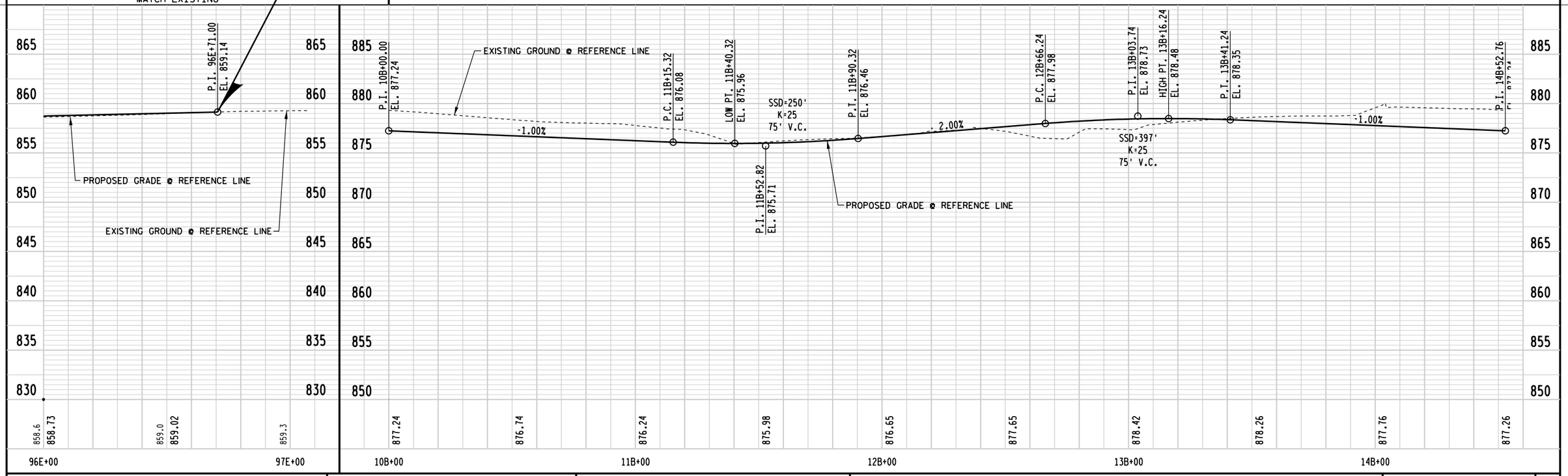
855.1 855.14 | 855.2 855.39 | 855.4 855.69 | 855.9 856.30 | 856.8 857.23 | 857.9 857.95 | 857.5 857.32 | 857.9 857.57 | 858.1 857.86 | 858.0 858.15 | 858.3 858.44 | 858.6 858.73

90E+00 91E+00 92E+00 93E+00 94E+00 95E+00 96E+00

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE - DUQUAINE ROAD AND GO AROUND ROAD	SHEET 177	E







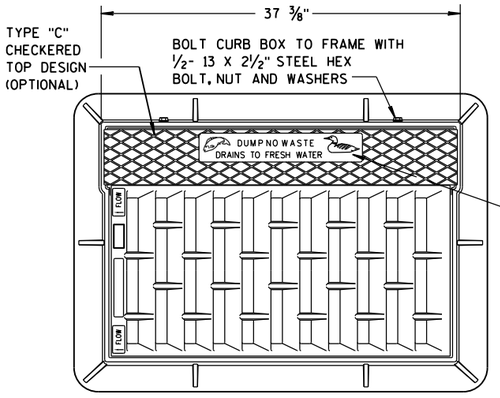
PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	PLAN AND PROFILE - GO AROUND ROAD AND ROUNDABOUT	SHEET 178	E

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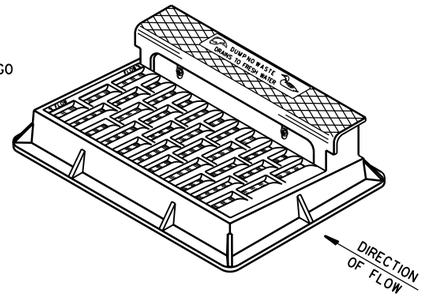
Standard Detail Drawing List

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
08D01-20A	CONCRETE CURB & GUTTER
08D01-20B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D05-19A	CURB RAMPS TYPES 1 AND 1-A
08D05-19B	CURB RAMPS TYPES 2 AND 3
08D05-19C	CURB RAMPS TYPES 4A AND 4A1
08D05-19D	CURB RAMPS TYPE 4B AND 4B1
08D05-19E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-19F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-19G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
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
09C02-07	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C14-02	CONCRETE CONTROL CABINET BASE, TYPE L
09D01-05	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09D04-02	LIGHTING CONTROL CABINET 120/240 VOLT
09E01-14D	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)
09E03-05	NON-FREEWAY LIGHTING UNIT POLE WIRING
11B02-02	CONCRETE MEDIAN NOSE
14A02-01	TREE PLANTING DETAIL
15B12-01A	PIPE GATE DETAILS
15B12-01B	PIPE GATE DETAILS
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C03-03	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C05-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-14A	PAVEMENT MARKING SYMBOLS
15C07-14B	PAVEMENT MARKING WORDS
15C07-14C	PAVEMENT MARKING ARROWS
15C07-14D	ROUNDABOUT ARROWS
15C07-14E	PAVEMENT MARKING FOR BIKE LANES
15C08-18A	LONGITUDINAL MARKING (MAINLINE)
15C08-18B	PAVEMENT MARKING (TURN LANES)
15C11-07A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-06	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C18-04	MEDIAN ISLAND MARKING
15C21-08	SIGNING AND MARKING FOR TWO LANE TO FOUR LANE DIVIDED TRANSITIONS
15C27-02B	PAVEMENT MARKING (ISLANDS)
15C29-05A	BICYCLE LANE MARKING
15C29-05B	PAVEMENT MARKING FOR SHARED LANE 35 MPH OR LESS
15C33-02	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D06-03	TRAFFIC CONTROL, TWO LANE TWO WAY OPERATION
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

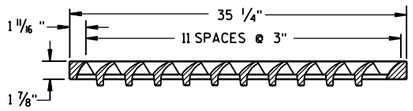
6

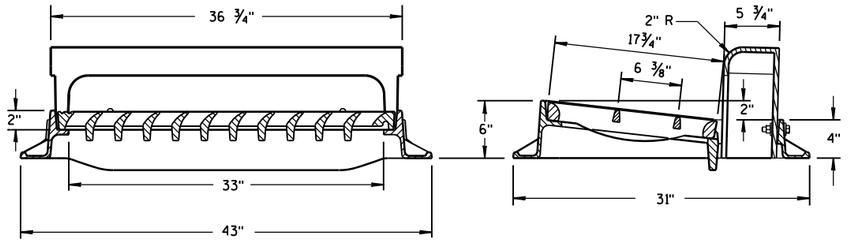


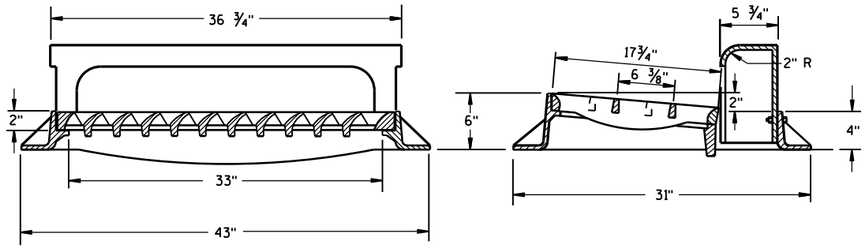
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

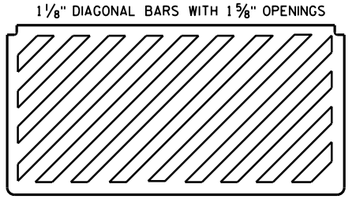






TYPE "H"

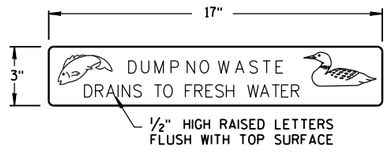
NOTE: EITHER CASTING IS ACCEPTABLE



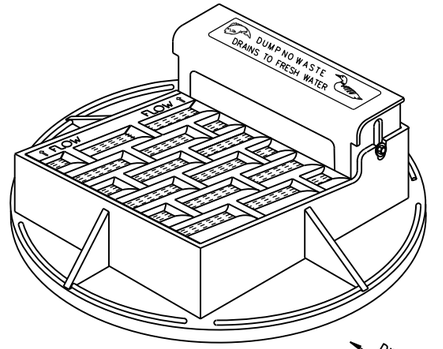
SPECIAL GRATE FOR TYPE "H" COVER

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

(NOTED AS TYPE H-S ON DRAINAGE TABLE)

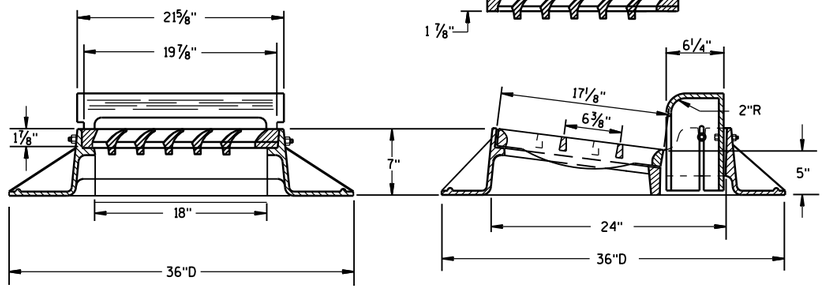


LOGO DETAIL



NOTE: CURB BOX ADJUSTABLE 4" TO 9"

NOTE:
GRATE IS REVERSIBLE.



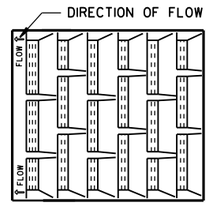
TYPE "A"

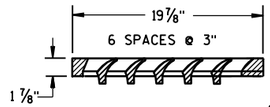
GENERAL NOTES

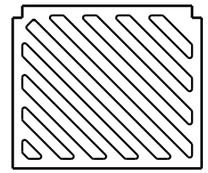
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

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



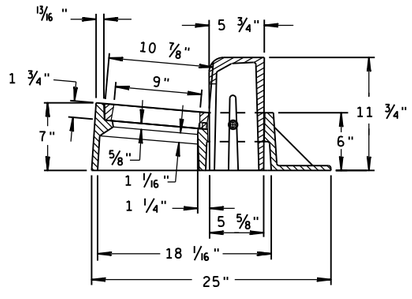


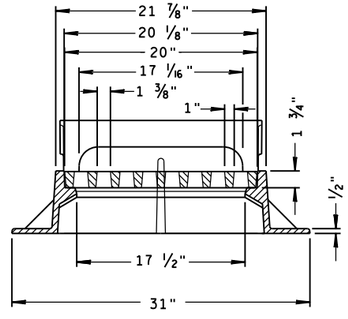


SPECIAL GRATE FOR TYPE "A" COVER

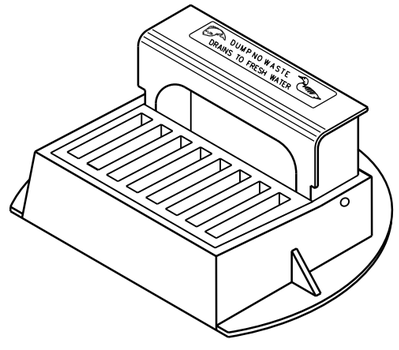
(MEASURES 19 3/4" X 17" X 1 7/8")

(NOTED AS TYPE A-S ON DRAINAGE TABLE)





TYPE "Z"



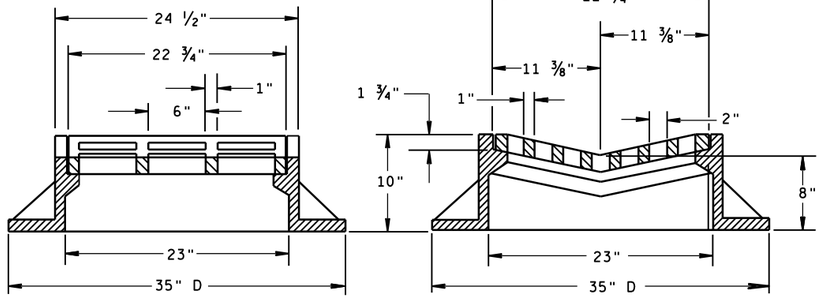
INLET COVERS TYPE A, H, A-S, H-S & Z

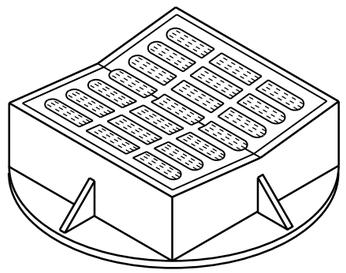
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

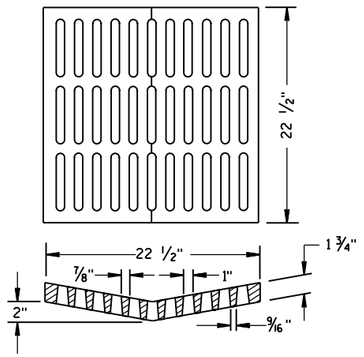
6

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



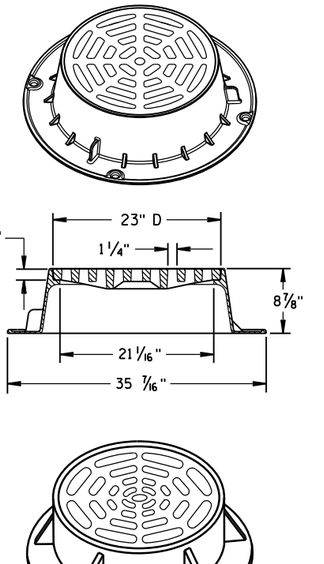


TYPE "B"



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"

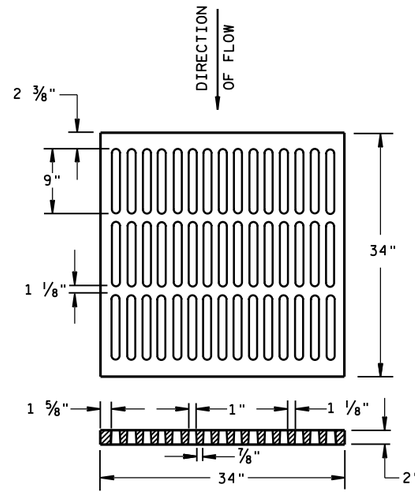
NOTE: EITHER CASTING IS ACCEPTABLE

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.

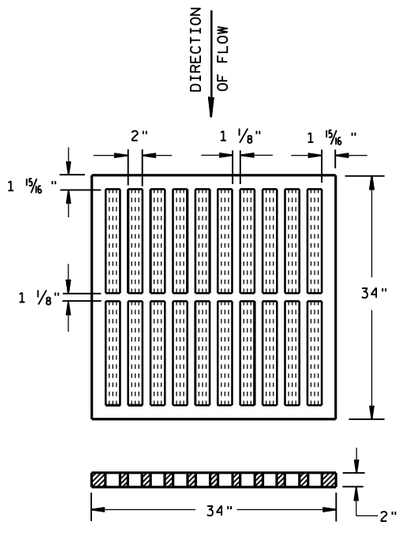
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

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



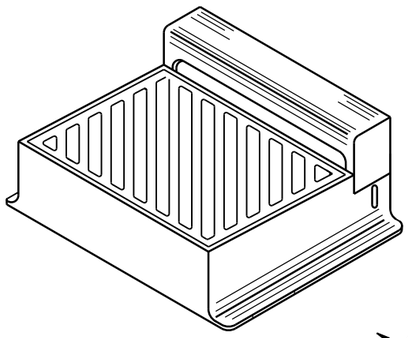
ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

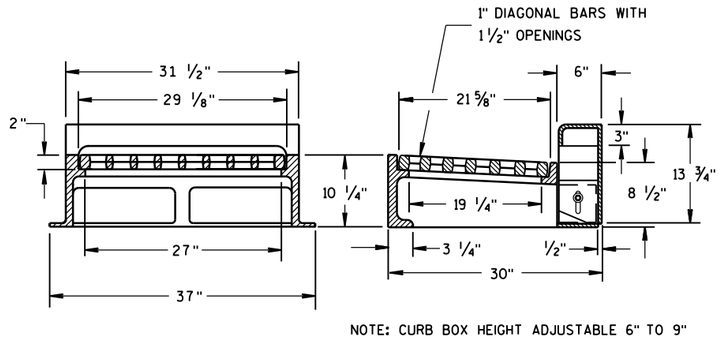


TYPE "MS"

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"

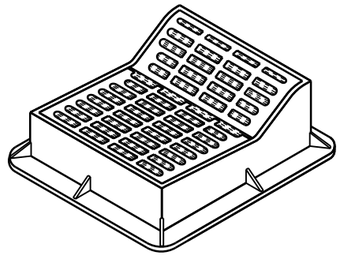
INLET COVERS
TYPE B, B-A, C, MS, MS-A, & WM

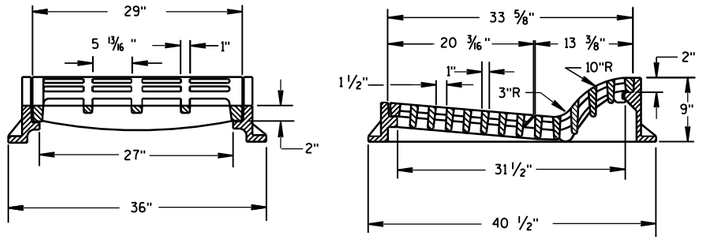
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

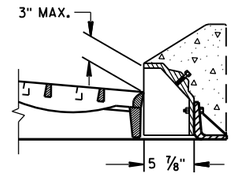
S.D.D. 8 A 5-19b





TYPE "F"

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



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

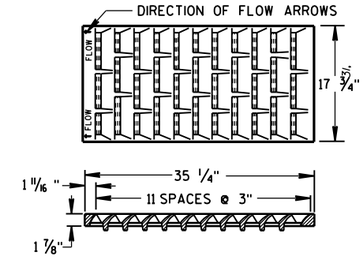
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

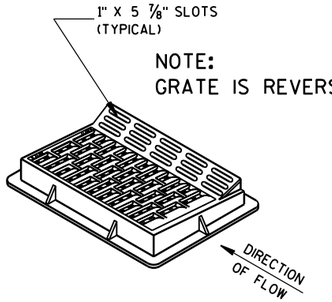
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

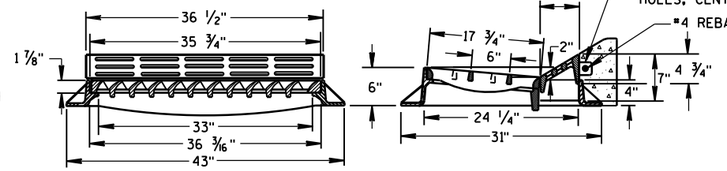
GENERAL NOTES

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.



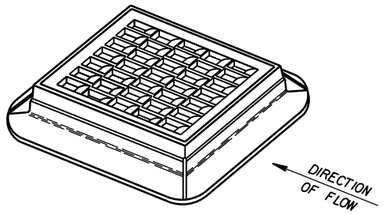


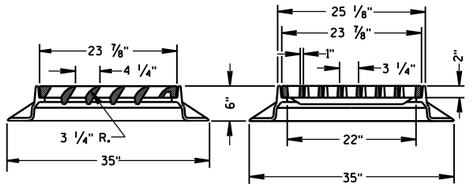


TYPE "HM"

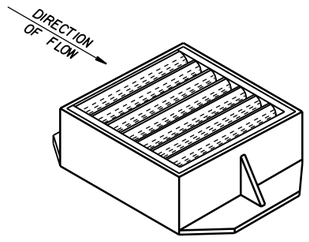
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

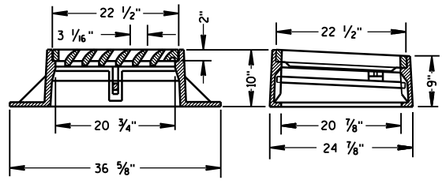
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



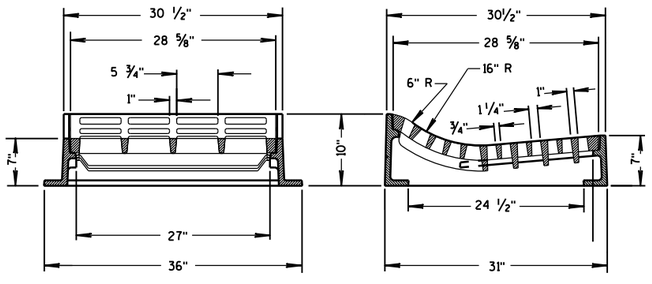


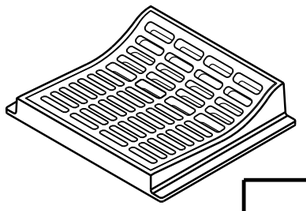
TYPE "S"





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

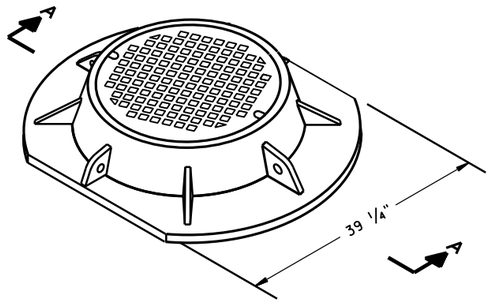
APPROVED
11/27/2013
DATE

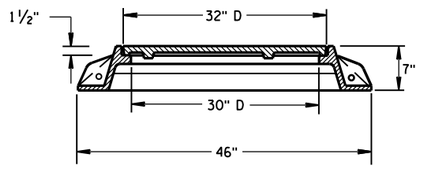
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

FHWA

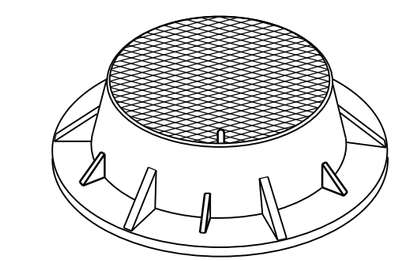
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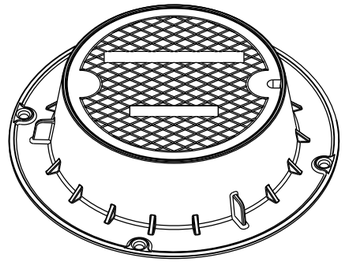
S.D.D. 8 A 5-19c

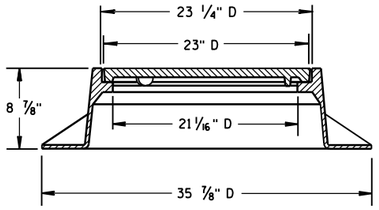


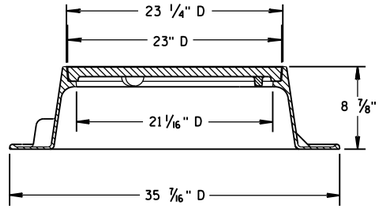


SECTION A-A
TYPE "K"









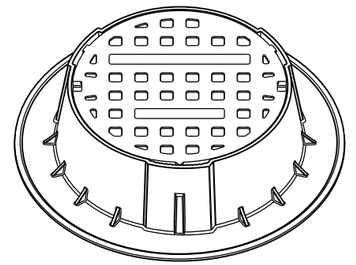
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

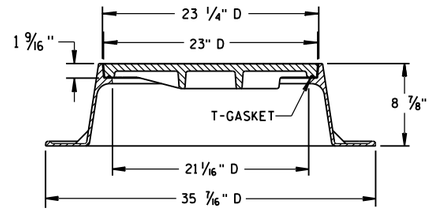
GENERAL NOTES

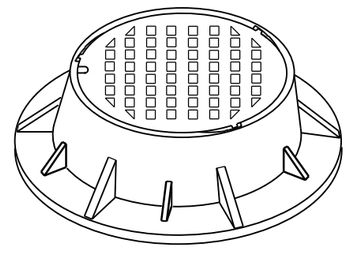
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

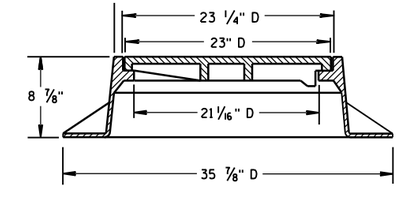
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

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

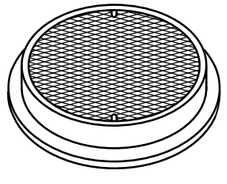


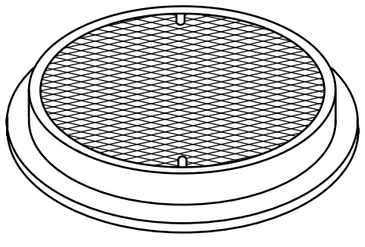


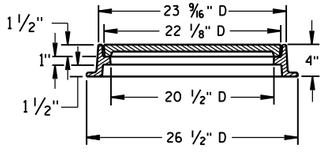




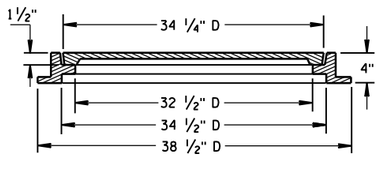
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE



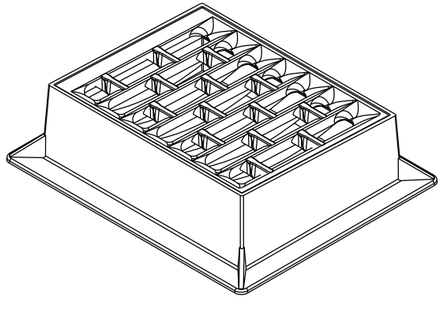


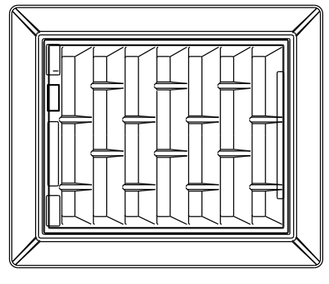


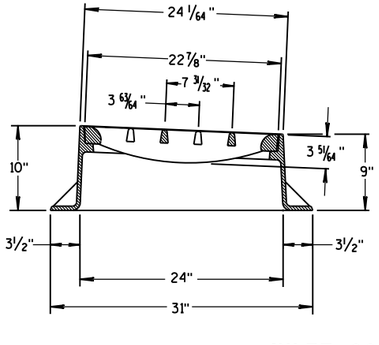
TYPE "L"

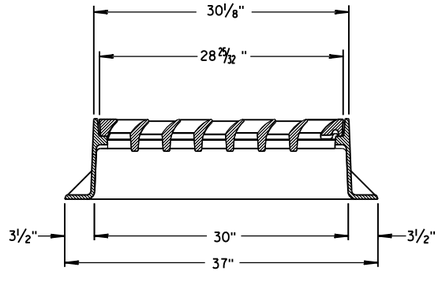


TYPE "M"









INLET COVER TYPE "BW"

INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

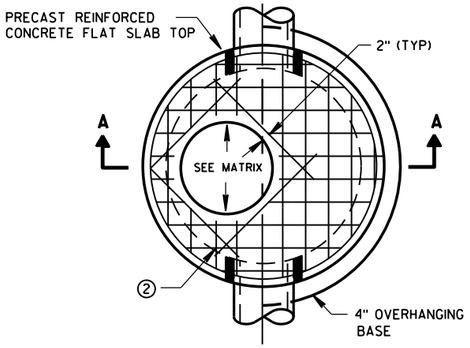
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
FHWA

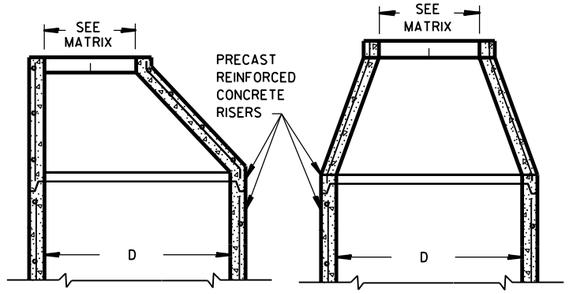
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

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

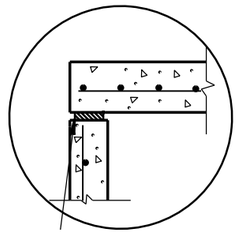


PLAN VIEW CIRCULAR OPENING

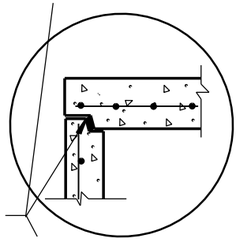


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

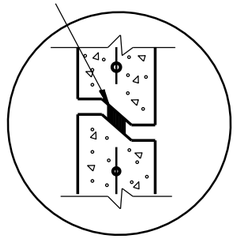


TOP WITH PLAIN END JOINT



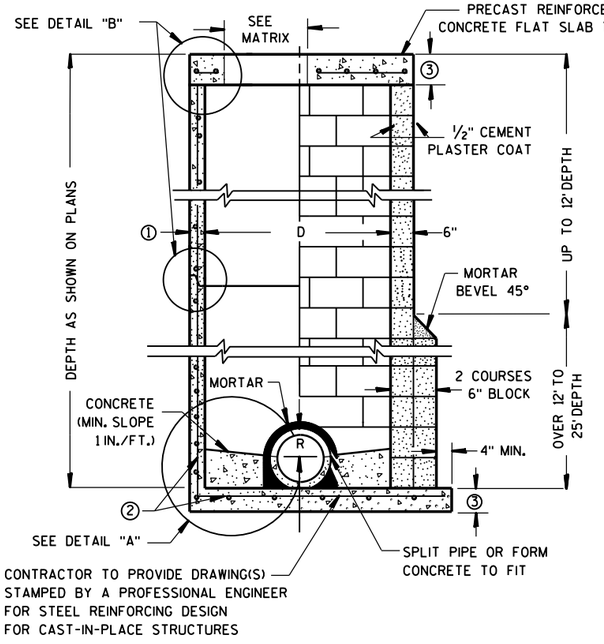
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



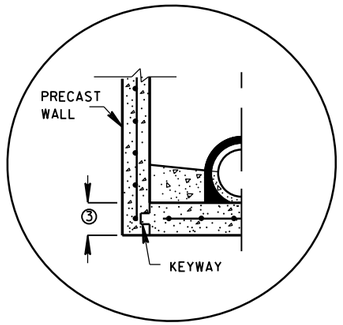
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

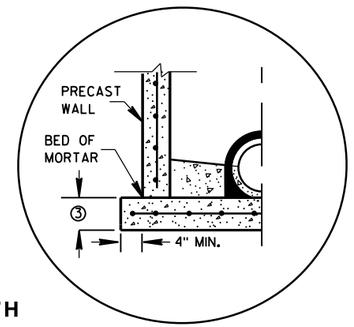


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

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

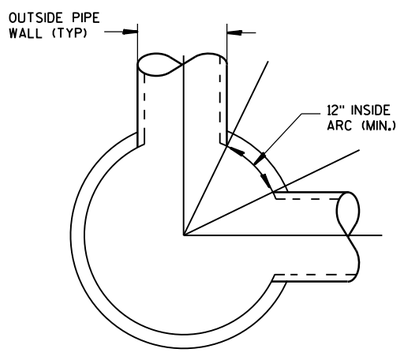


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



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

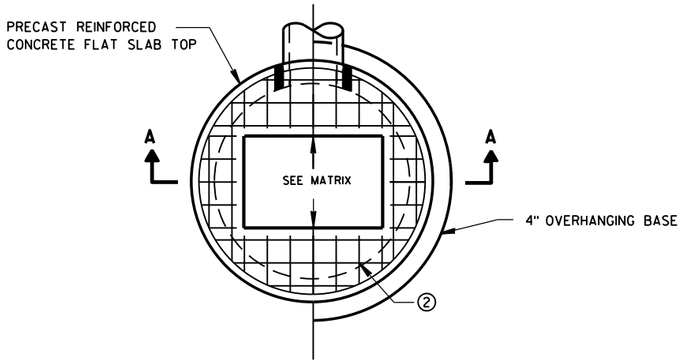
MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

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

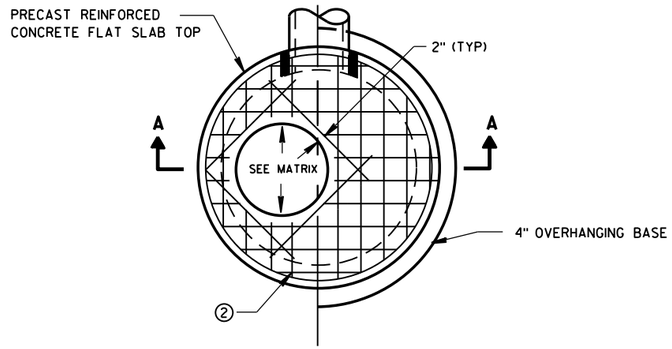
STATE OF WISCONSIN
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Sept., 2016
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FHWA

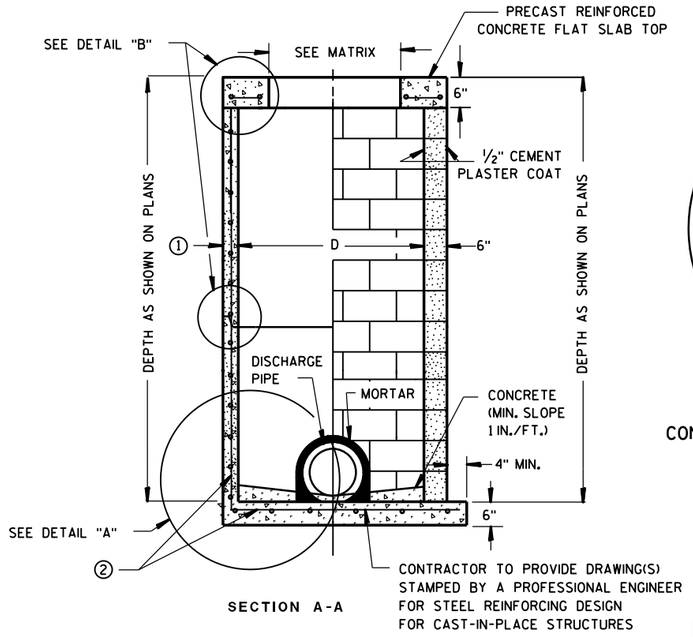
MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER



PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

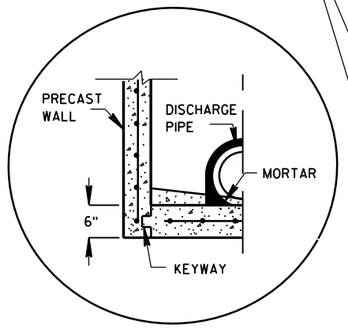


SECTION A-A

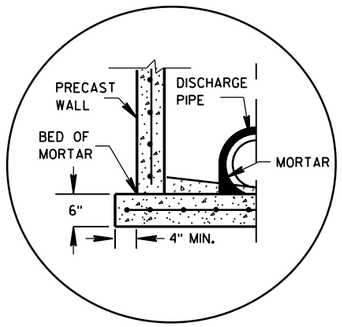
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

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

CIRCULAR INLETS W/ FLAT TOP

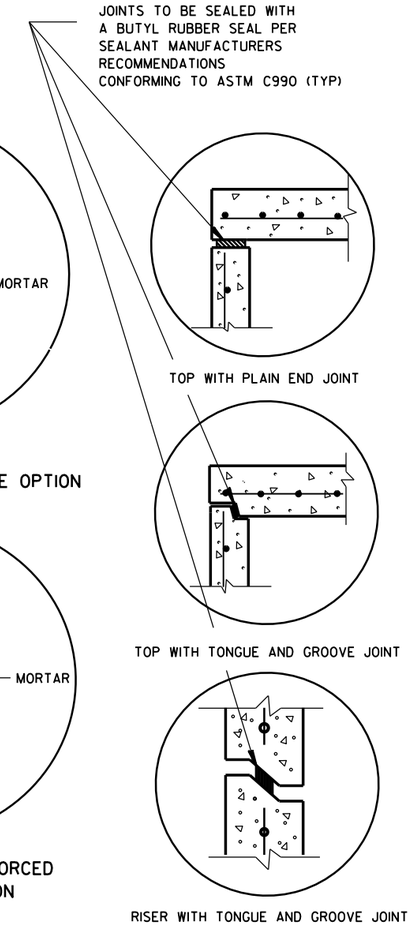


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "B"

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

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

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

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

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

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

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

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

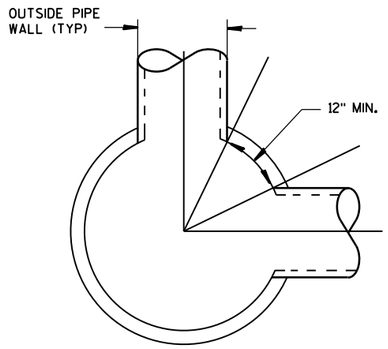
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

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

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

INLET COVER OPENING MATRIX

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



DETAIL "C"

PIPE MATRIX

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

INLETS 3-FT AND 4-FT DIAMETER

STATE OF WISCONSIN
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Sept., 2016 — DATE
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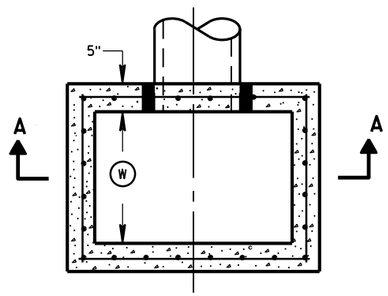
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S.D.D. 8 C 6-2

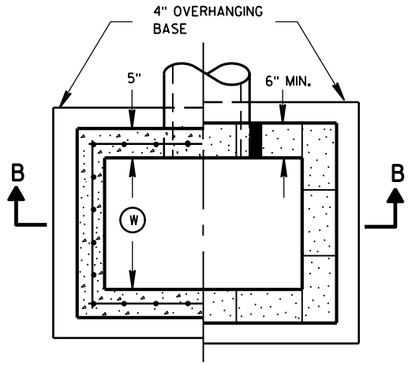
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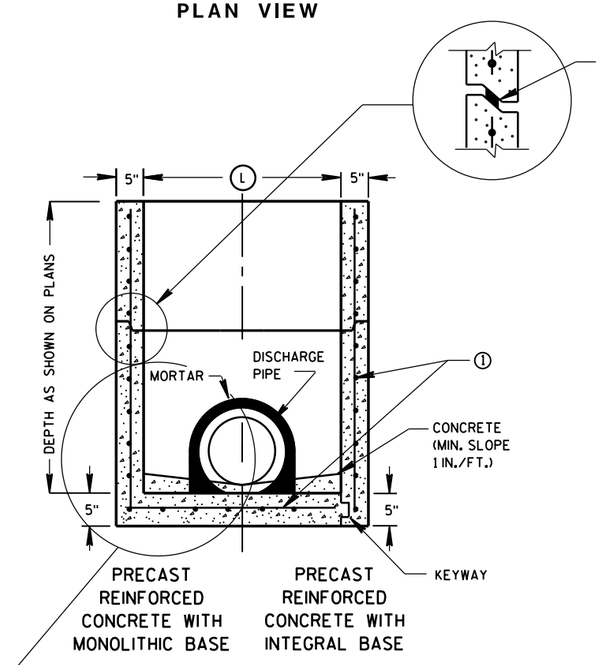
INLETS 3-FT AND 4-FT DIAMETER



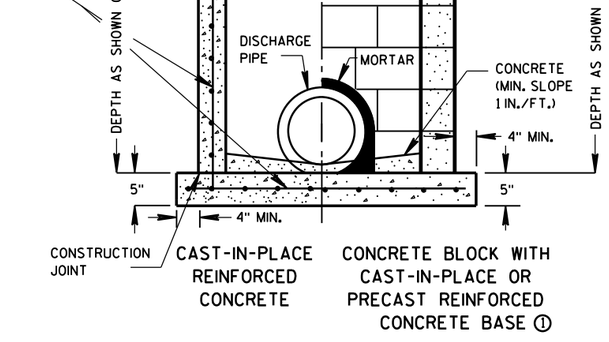
PLAN VIEW



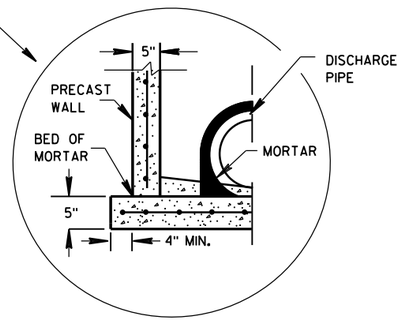
PLAN VIEW



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.

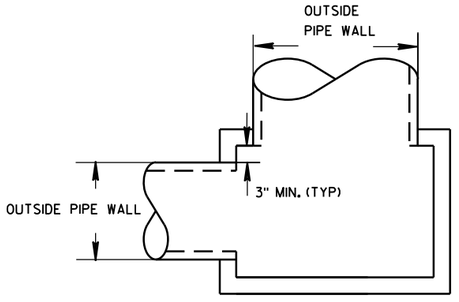
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

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

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Sept., 2016
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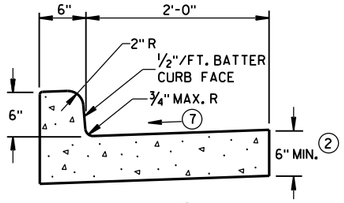
INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

6

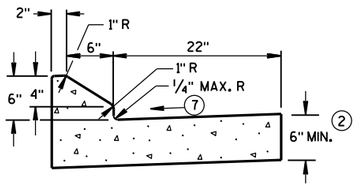
S.D.D. 8 C 7-2

6

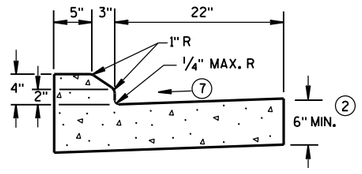
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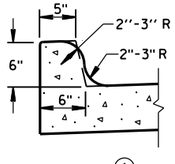
TYPES A (1) & D



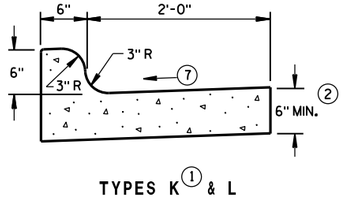
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

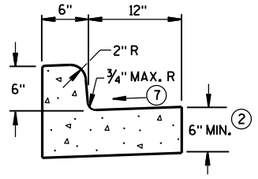


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



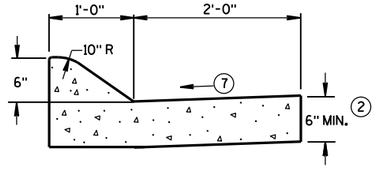
TYPES K (1) & L

CONCRETE CURB & GUTTER 30"

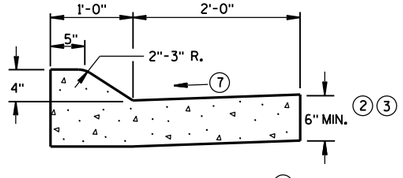


TYPES A (1) & D

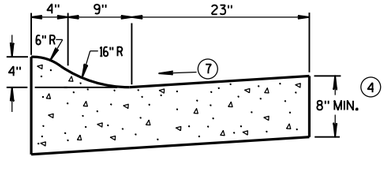
CONCRETE CURB & GUTTER 18"



6" SLOPED CURB TYPES A (1) & D

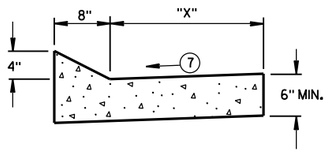


4" SLOPED CURB TYPES A (1) & D



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"

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.

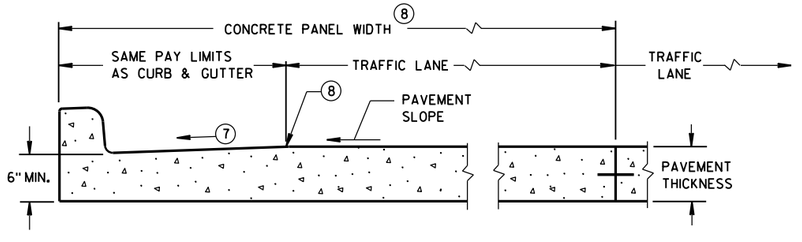
(6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

(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.

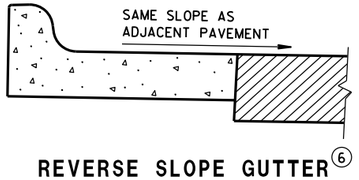
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

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



PARTIAL SECTION OF PAVEMENT *
WITH INTEGRAL CURB & GUTTER

* BIKE LANE IS NOT SHOWN.



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

CONCRETE CURB & GUTTER

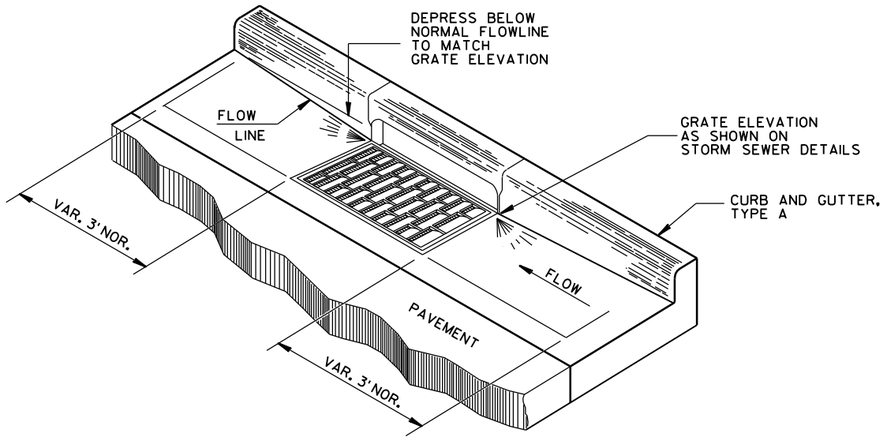
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO...

6

S.D.D. 8 D 1-20a

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.

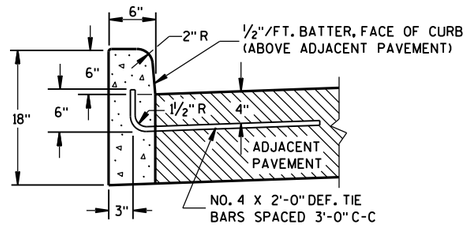
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

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

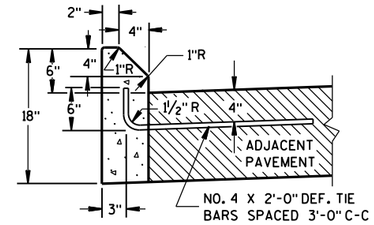
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

(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.

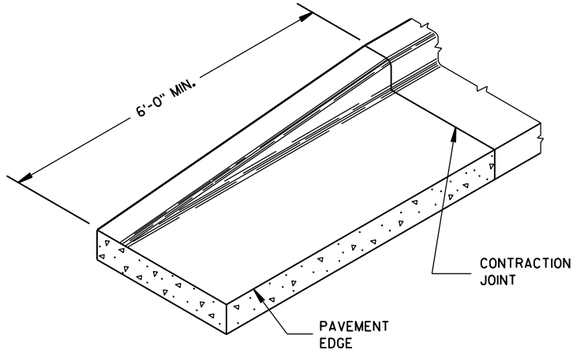


TYPES A (1) & D

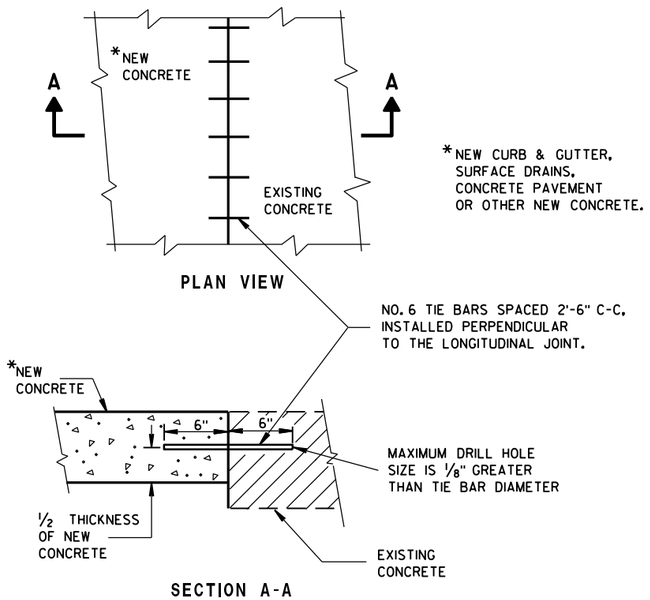


TYPES G (1) & J

CONCRETE CURB



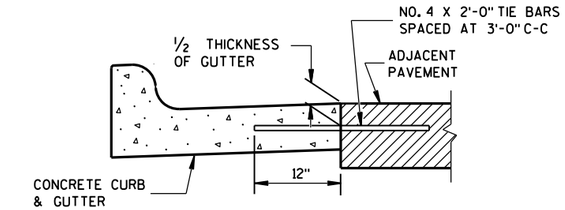
END SECTION CURB & GUTTER



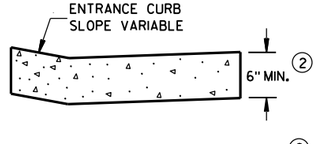
PLAN VIEW

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
188
ENT
FHWA

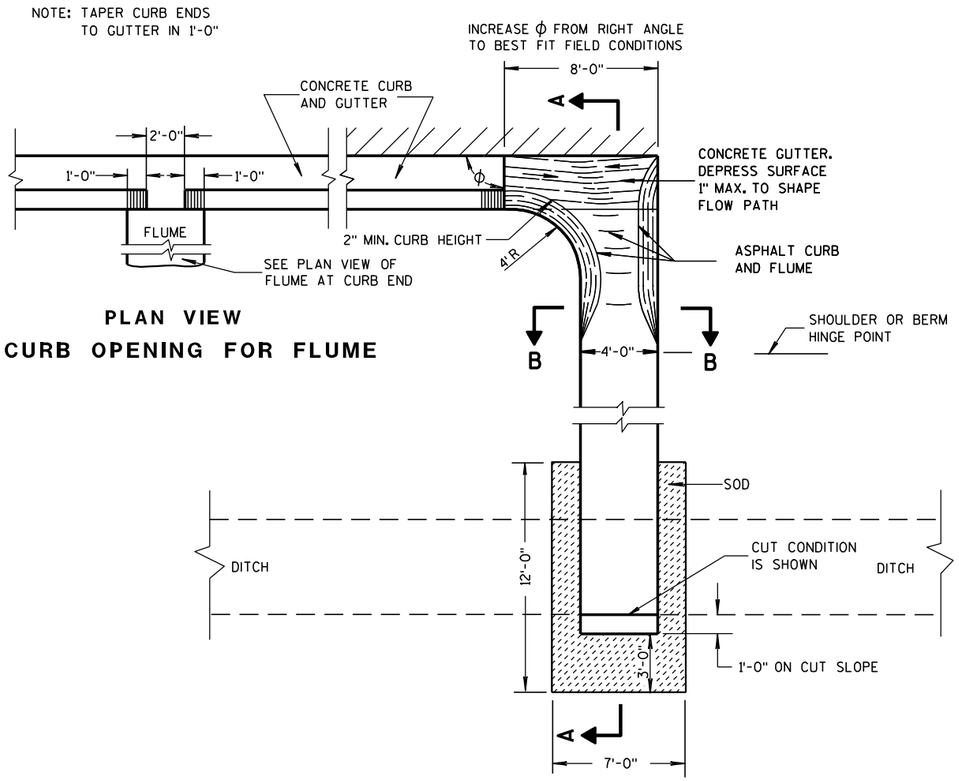
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S.D.D. 8 D 1-20b

6

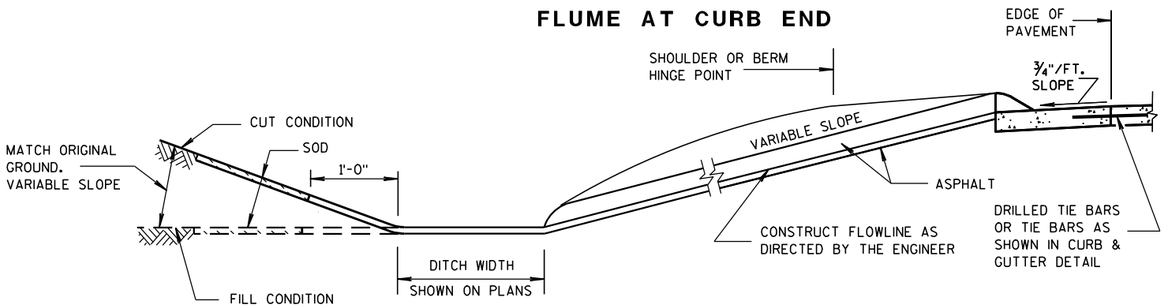
S.D.D. 8 D 1-20b

ASPHALTIC FLUME

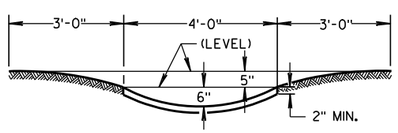


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

GENERAL NOTES

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

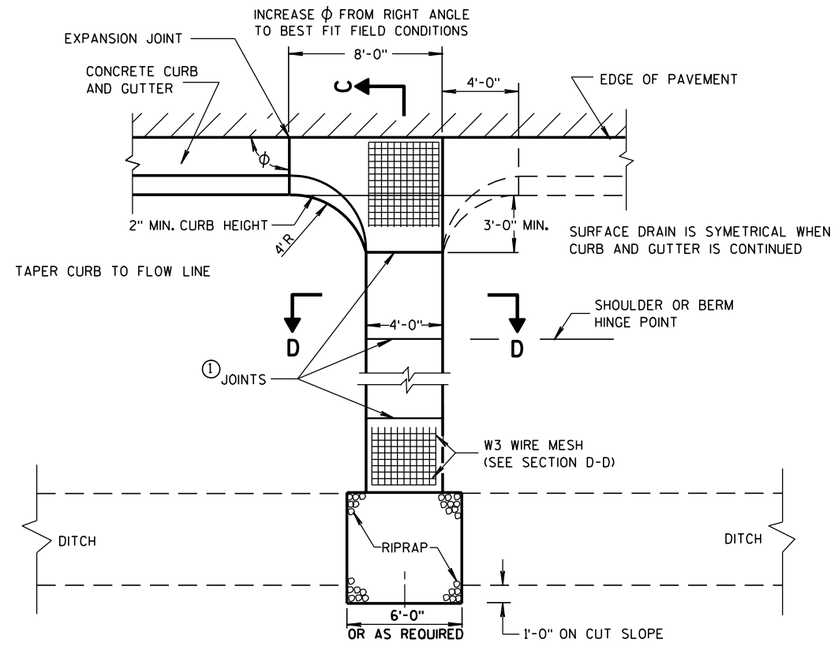
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE $\frac{1}{8}$ TO $\frac{1}{4}$ INCH WIDE BY $1\frac{1}{2}$ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

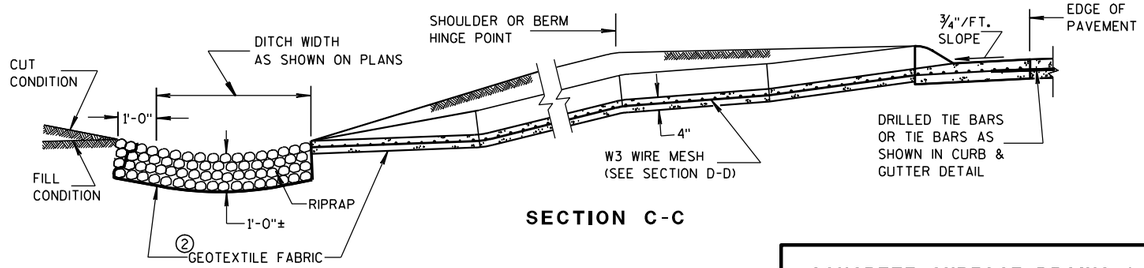
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

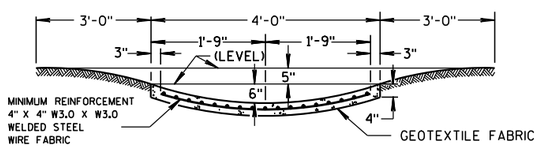
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

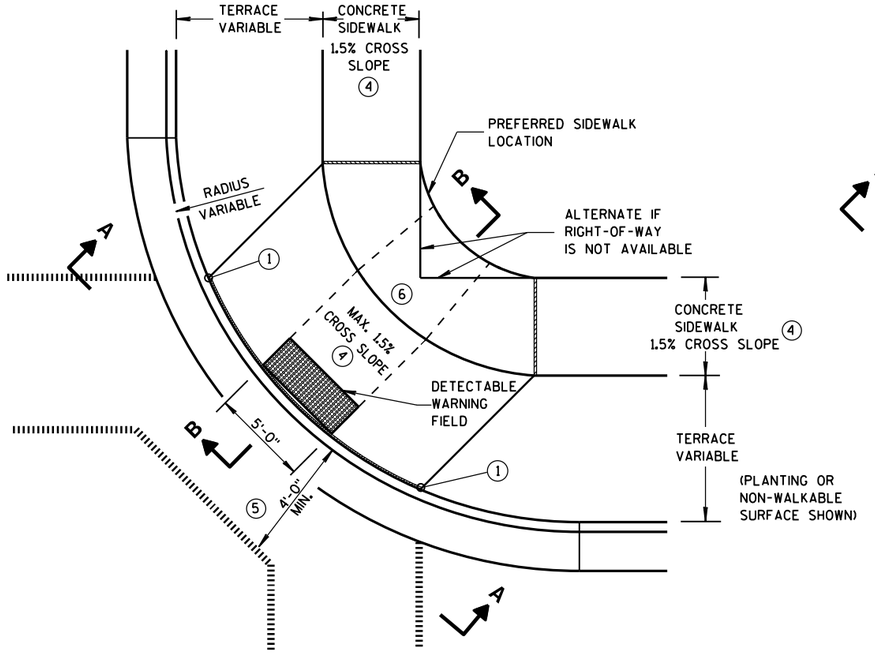
APPROVED
9-4-08 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
MENT
FHWA

6

S.D.D. 8 D 4-5

6

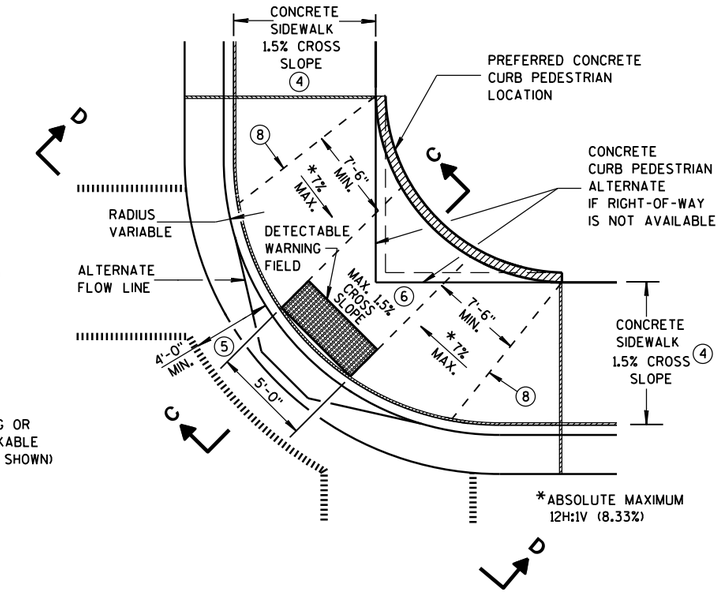
S.D.D. 8 D 4-5



PLAN VIEW

TYPE 1 RAMP

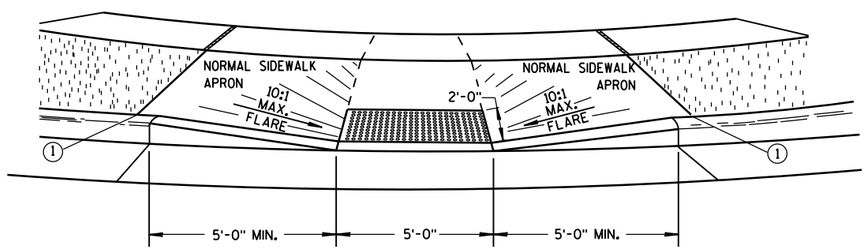
(CENTER OF CORNER RADIUS)



PLAN VIEW

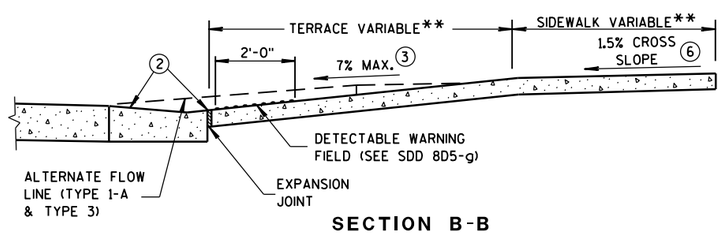
TYPE 1-A RAMP

(NO TERRACE)

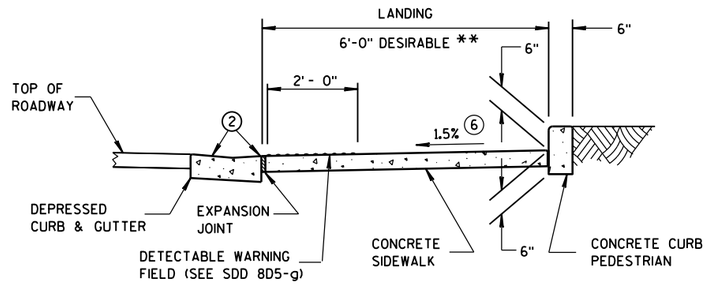


VIEW A-A

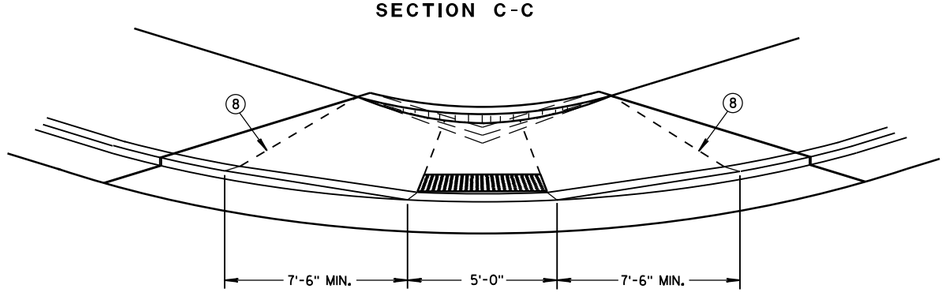
** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B-B



SECTION C-C



VIEW D-D

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

DETECTABLE WARNING FIELD 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 LINEAL 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 1/4-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) ABSOLUTE MAXIMUM 12H:1V (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 LANDING SIZE IS 5 FEET X 5 FEET.

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

LEGEND

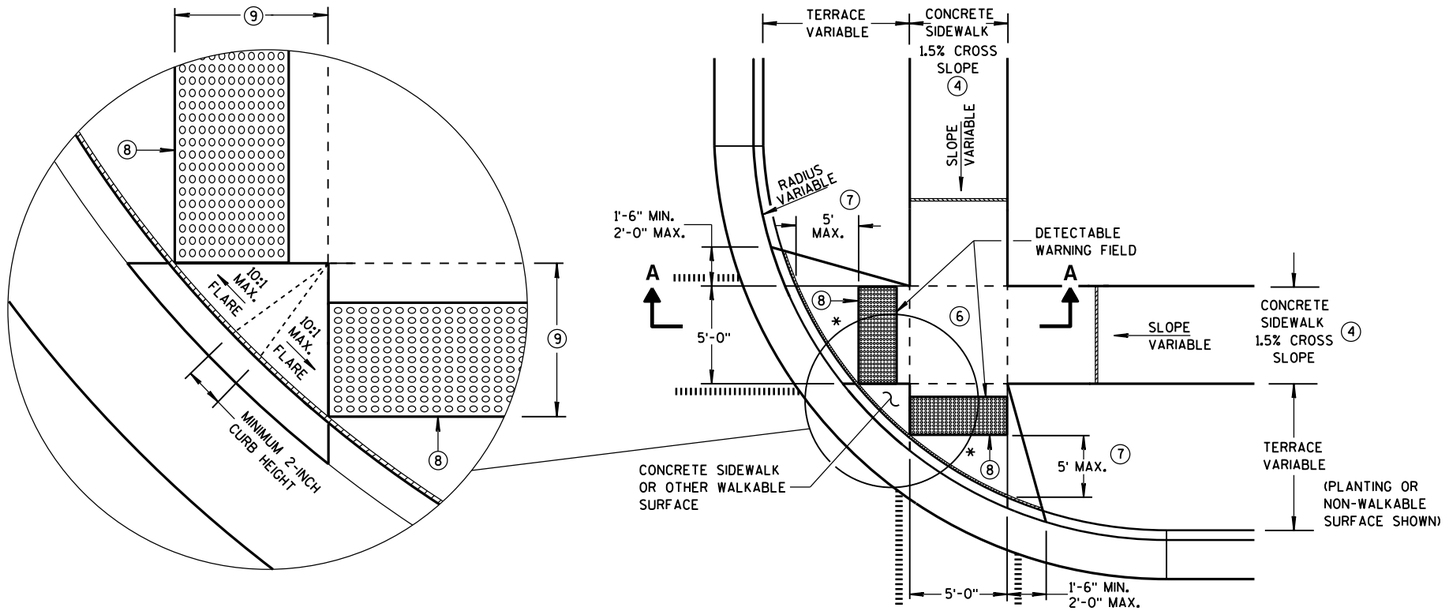
- 1/2" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT

CURB RAMPS TYPES 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

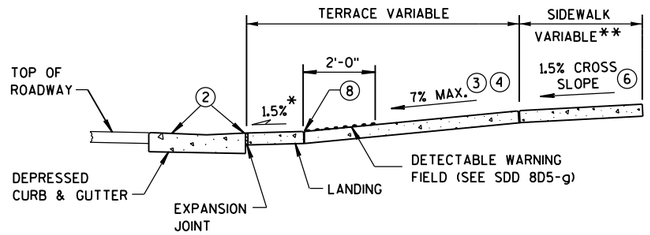
6

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



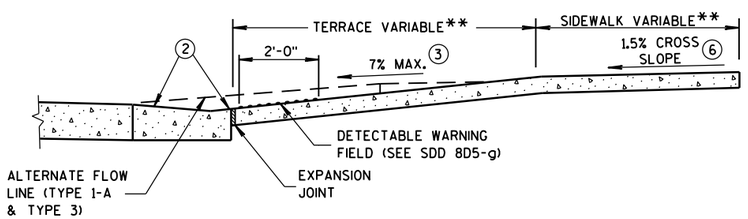
PLAN VIEW
TYPE 2 RAMP
(ON LINE WITH SIDEWALK)

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



SECTION A-A

** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B-B

GENERAL NOTES

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

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 1/4-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) ABSOLUTE MAXIMUM 12H:1V (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 X 5 FEET.

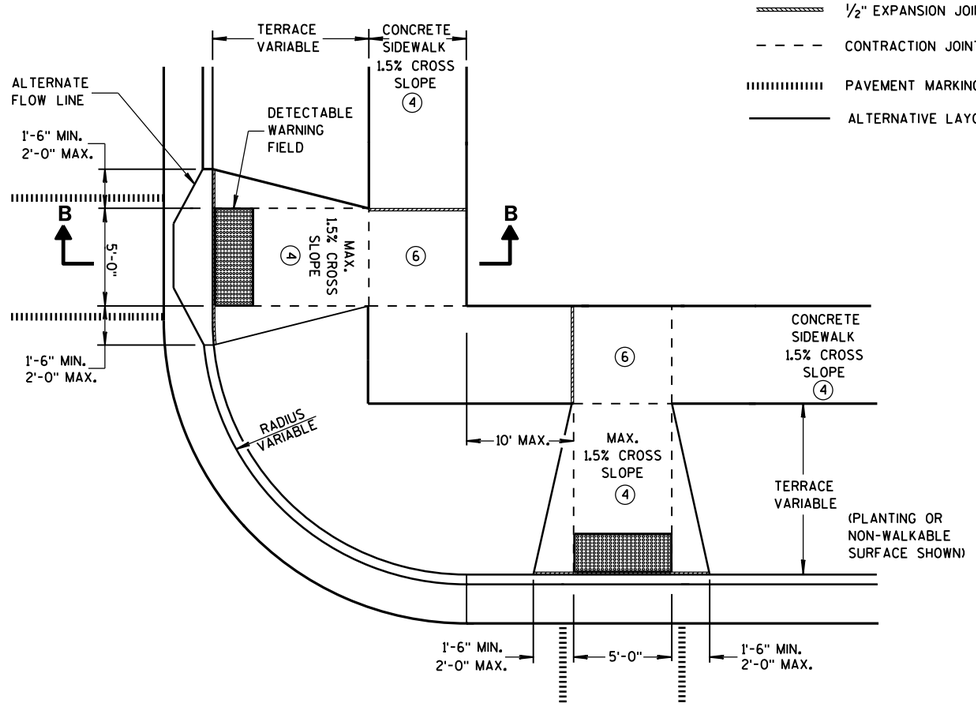
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

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

(9) WHEN THIS 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.

LEGEND

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



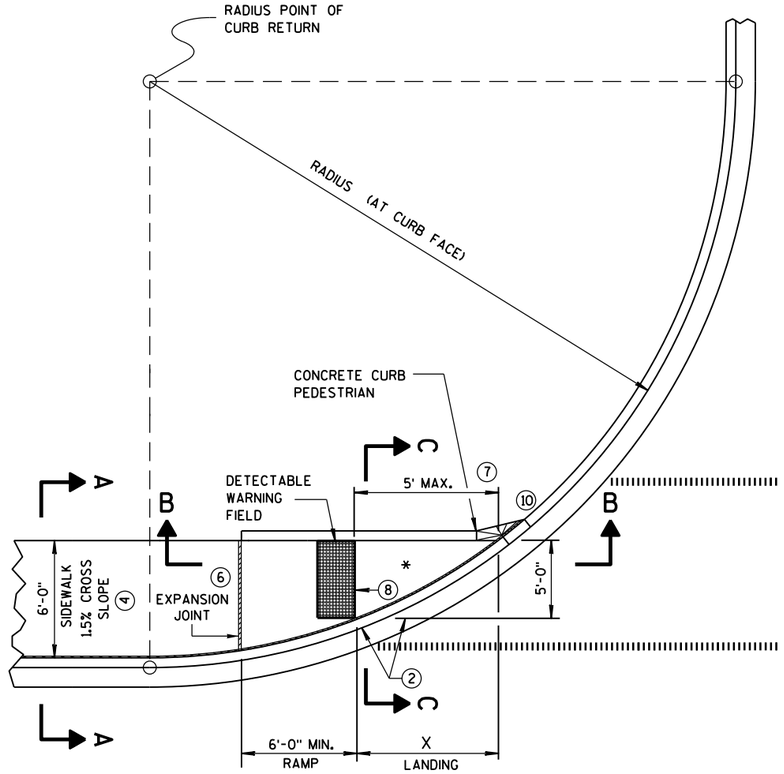
PLAN VIEW
TYPE 3 RAMP
(OUTSIDE OF CROSSWALK AREA)

CURB RAMPS TYPES 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6

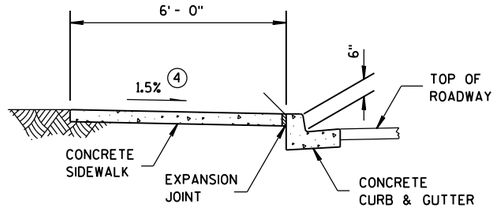
S.D.D. 8 D 5-19b



CURB RAMP TYPE 4A
PLAN VIEW

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.

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) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

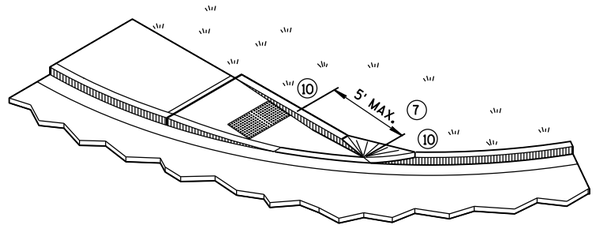
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

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

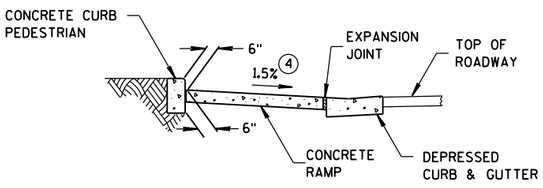
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

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

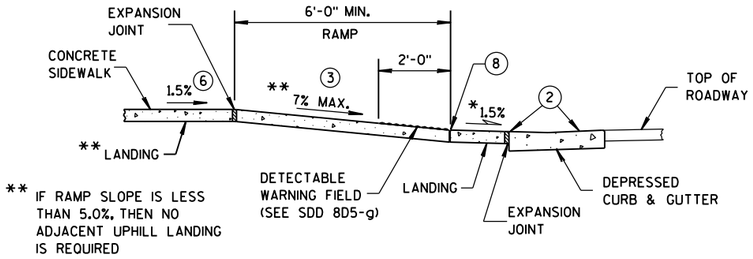
(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



ISOMETRIC VIEW FOR TYPE 4A



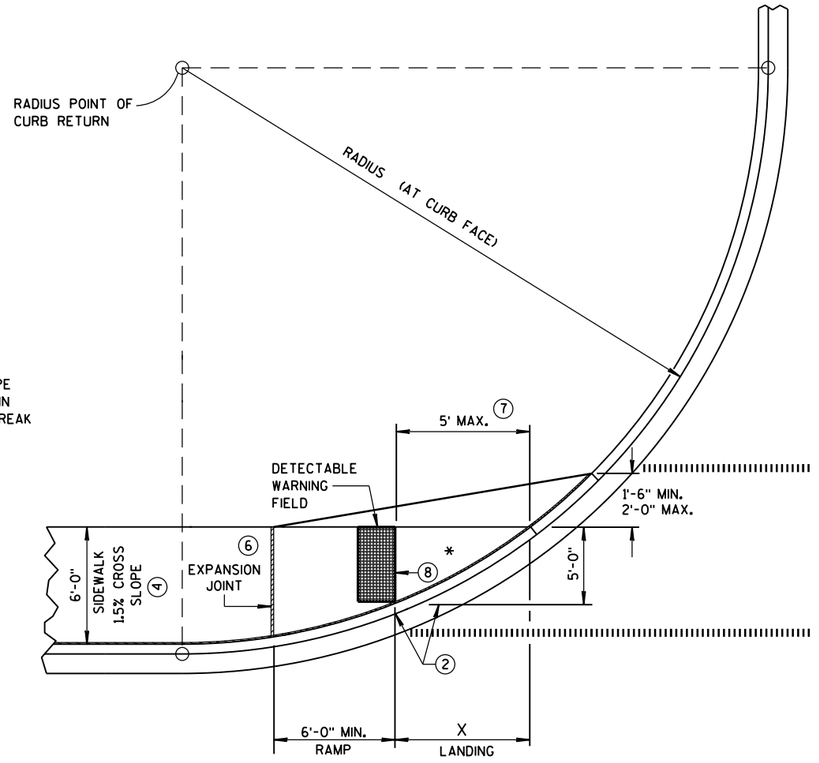
SECTION C-C FOR TYPE 4A



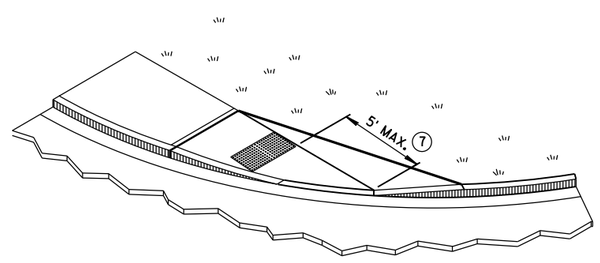
** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

SECTION B-B FOR TYPE 4A

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



CURB RAMP TYPE 4A1
PLAN VIEW



ISOMETRIC VIEW FOR TYPE 4A1

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

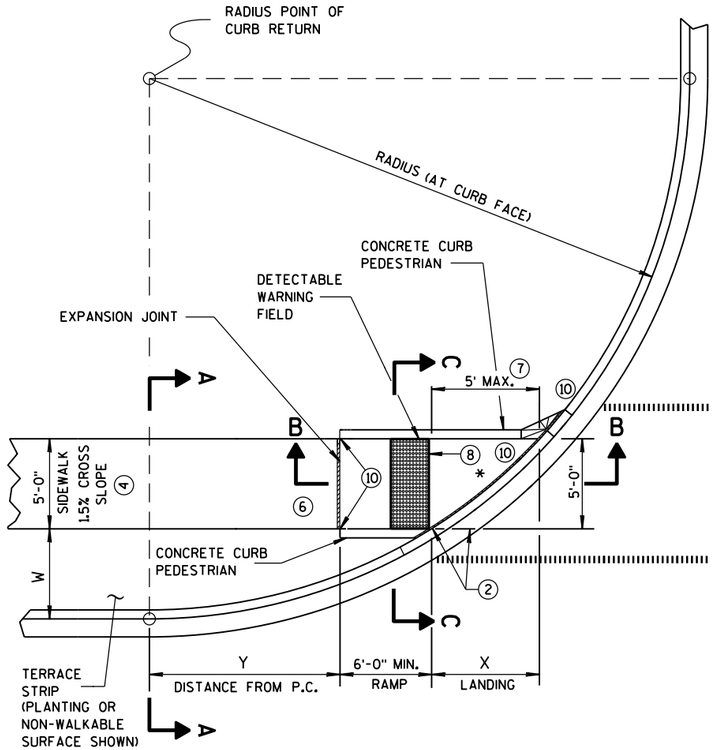
PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPES 4A AND 4A1

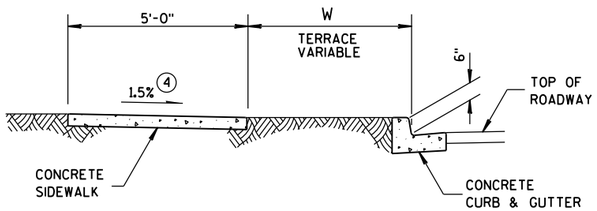
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

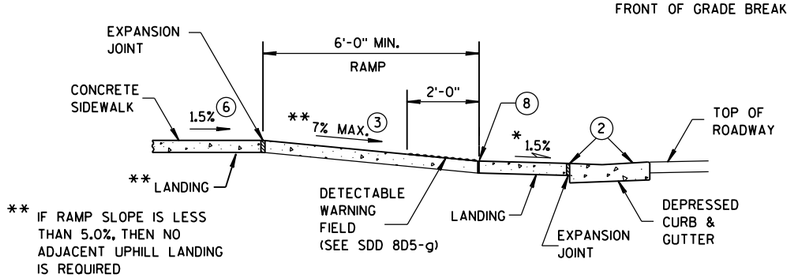
S.D.D. 8 D 5-19c



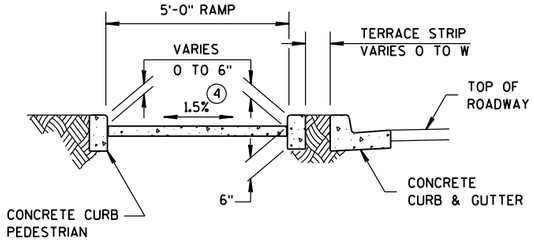
CURB RAMP TYPE 4B
PLAN VIEW



SECTION A-A FOR TYPE 4B



SECTION B-B FOR TYPE 4B



SECTION C-C FOR 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'-10¼"	0'-5"	2'-1"	1'-4½"	1'-5"	2'-1"	0'-10"	2'-7½"	0'-3¼"	3'-0¼"						
15 FEET	4'-6¾"	2'-1¾"	3'-9"	3'-5¼"	3'-1¼"	4'-6"	2'-6¾"	5'-4½"	2'-1"	6'-1"	1'-8"	6'-8½"	1'-3¼"	7'-2½"	0'-10¾"	7'-7¼"
20 FEET	5'-9¾"	3'-6½"	4'-11½"	5'-1¾"	4'-3¼"	6'-5½"	3'-8¾"	7'-7"	3'-3"	8'-6½"	2'-10"	9'-4½"	2'-5½"	10'-1¼"	2'-1¼"	10'-9"
30 FEET			6'-9¼"	7'-11¼"	6'-0¼"	9'-8"	5'-5"	11'-1¾"	4'-10¾"	12'-5¾"	4'-5½"	13'-7¾"	4'-0¾"	14'-8½"	3'-8½"	15'-8¼"
40 FEET									6'-1¾"	15'-8½"	5'-8"	17'-2"	5'-3"	18'-5¾"	4'-10¾"	19'-8¼"
50 FEET															5'-10¼"	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

GENERAL NOTES

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

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) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

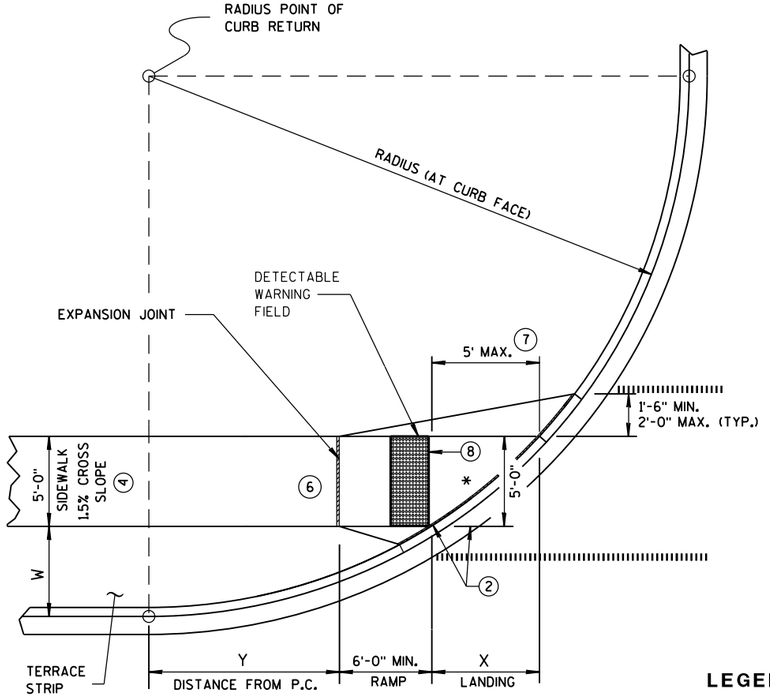
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

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

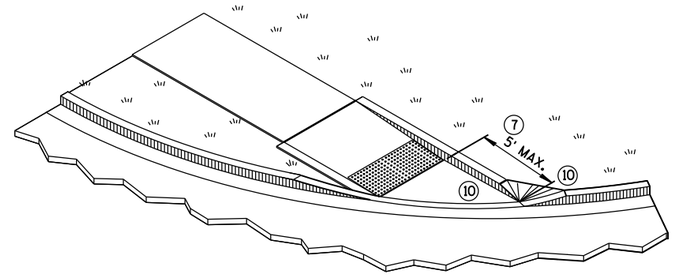
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

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

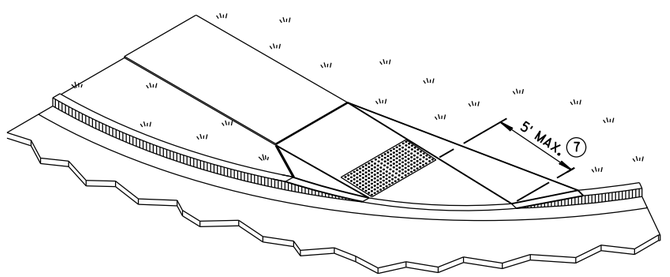
(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



CURB RAMP TYPE 4B1
PLAN VIEW



ISOMETRIC VIEW FOR TYPE 4B



ISOMETRIC VIEW FOR TYPE 4B1

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

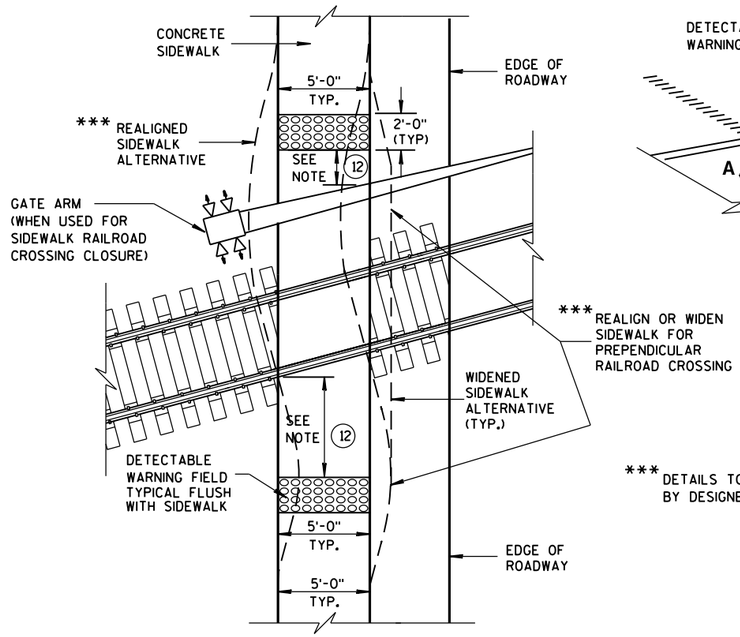
PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

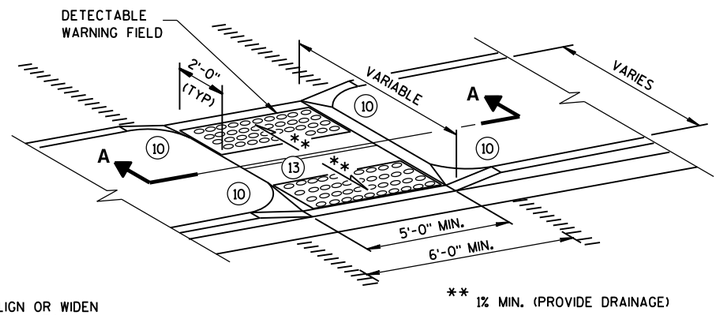
6

S.D.D. 8 D 5-19d



*** DETAILS TO BE DETERMINED BY DESIGNER

TYPE 8
DETECTABLE WARNINGS AT RAILROAD CROSSING



** 1% MIN. (PROVIDE DRAINAGE)

MEDIAN ISLAND
NON-ELEVATED PEDESTRIAN CROSSING
TYPE 5

GENERAL NOTES

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

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 1/4-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) ABSOLUTE MAXIMUM 12H:1V (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.

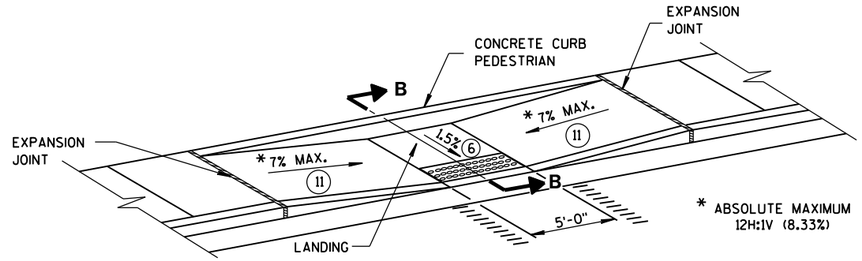
(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

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

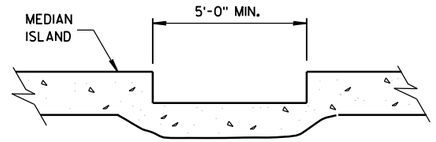
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(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.

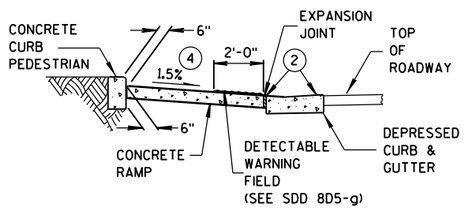
(13) DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STREET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2-FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT BE ACHIEVED.



MID-BLOCK CROSSING
TYPE 7A

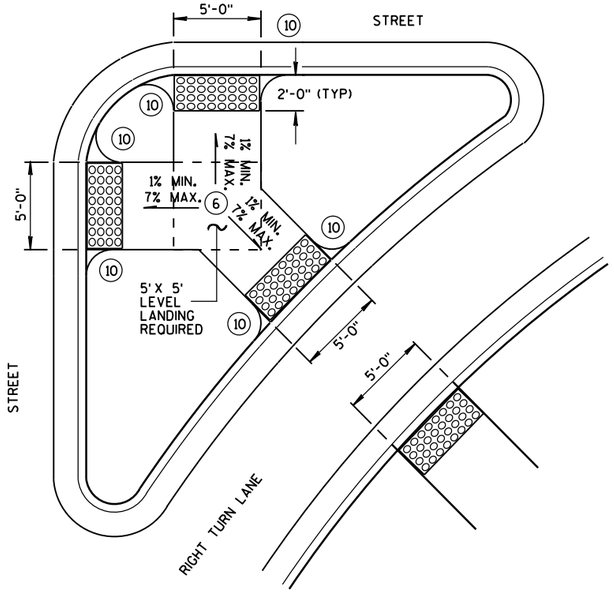


SECTION A-A

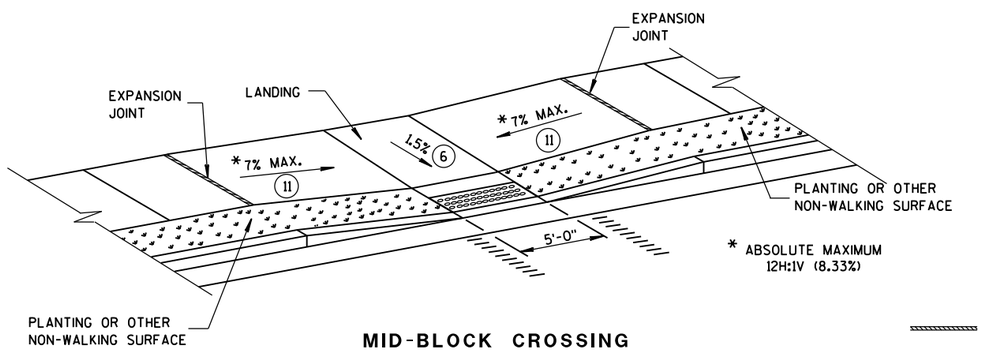


SECTION B-B

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



TYPE 6
DETECTABLE WARNING AT ISLANDS



MID-BLOCK CROSSING
TYPE 7B

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

LEGEND

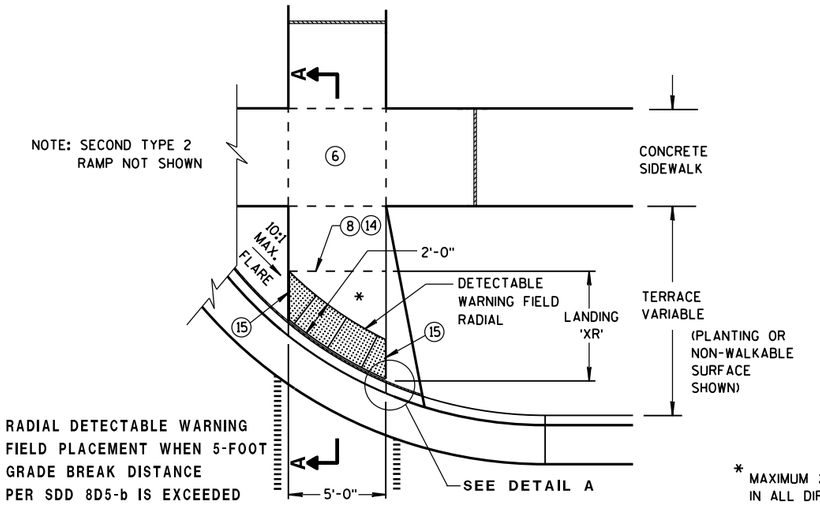
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 8 D 5-19e

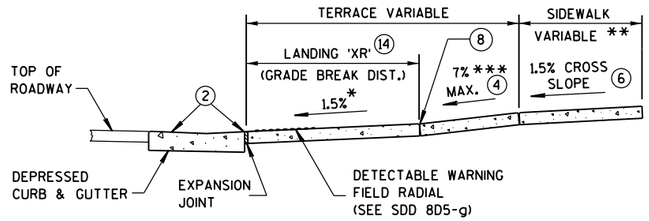


TYPE 2 RAMP
PLAN VIEW
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)
(ON LINE WITH SIDEWALK)

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

LEGEND

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



** WIDTH SHOWN ELSEWHERE IN THE PLANS

*** ABSOLUTE MAXIMUM 12H:1V (8.33%)

SECTION A-A

GENERAL NOTES

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

DETECTABLE WARNING FIELDS (DWFs) 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 FIELD 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.

(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) ABSOLUTE MAXIMUM 12H:1V (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 X 5 FEET.

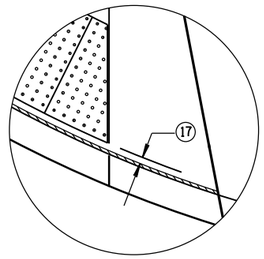
(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

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

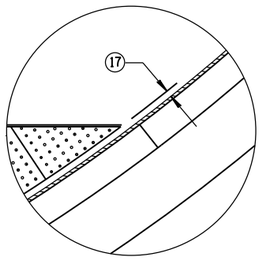
(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN 1/8" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

(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.

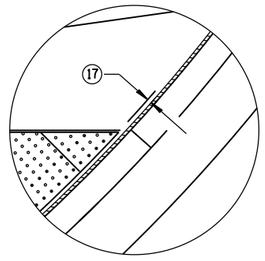
(17) A MAXIMUM 3-INCH CONCRETE BORDER WIDTH IS ALLOWABLE IN FRONT OF RADIAL DETECTABLE WARNING FIELD FOR CONSTRUCTABILITY PURPOSES. CONCRETE BORDER WIDTH MAY VARY UP TO 1 INCH.



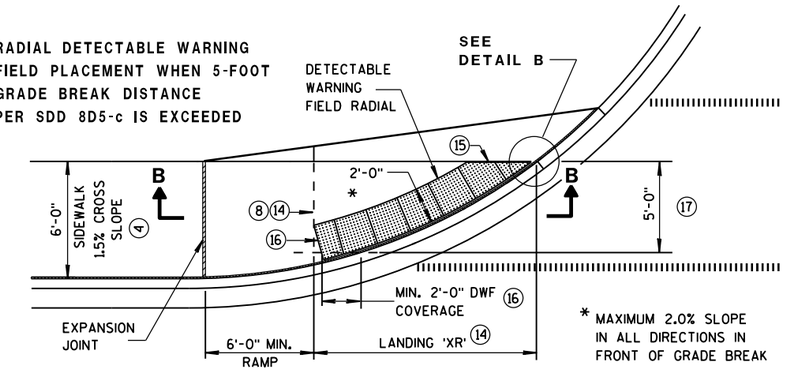
DETAIL A



DETAIL B

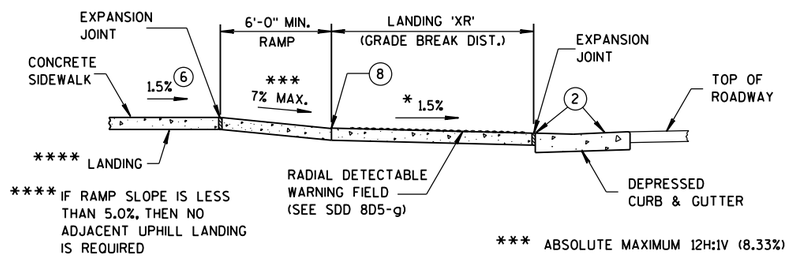


DETAIL C



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

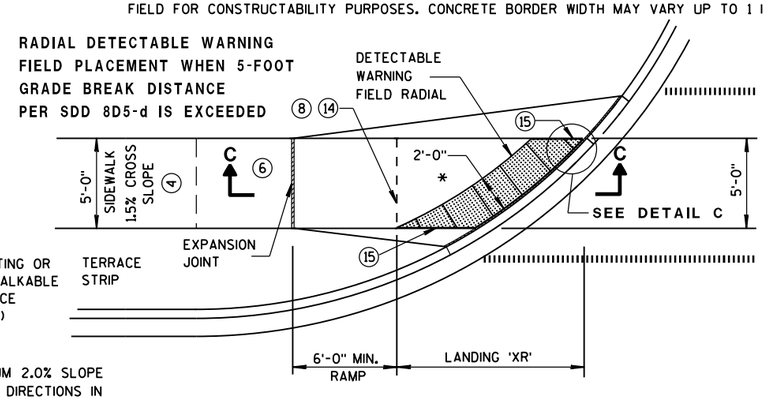
CURB RAMP TYPE 4A1
PLAN VIEW
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



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

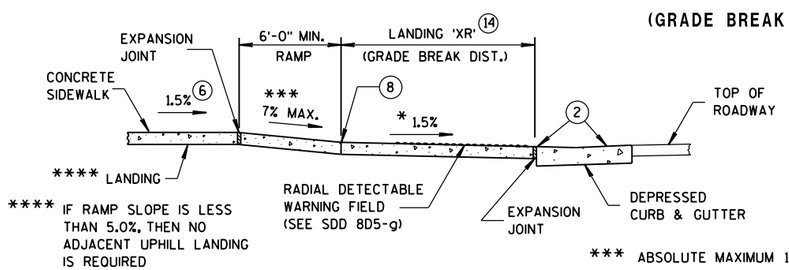
*** ABSOLUTE MAXIMUM 12H:1V (8.33%)

SECTION B-B FOR TYPE 4A1



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

CURB RAMP TYPE 4B1
PLAN VIEW
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



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

*** ABSOLUTE MAXIMUM 12H:1V (8.33%)

SECTION C-C FOR TYPE 4B1

CURB RAMPS
RADIAL DETECTABLE WARNING FIELD APPLICATIONS

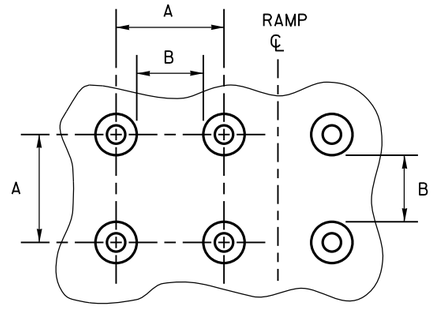
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

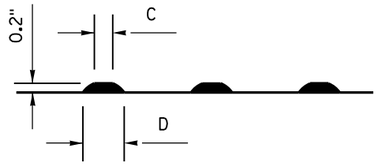
S.D.D. 8 D 5-19f

	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

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, 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 FIELD ARE PROHIBITED.

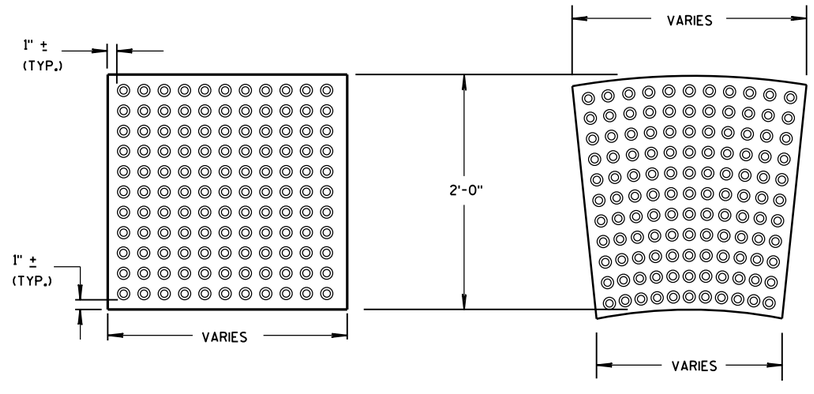
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

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 WEDGES IN COMBINATION WITH SQUARE PANELS 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 1/8" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

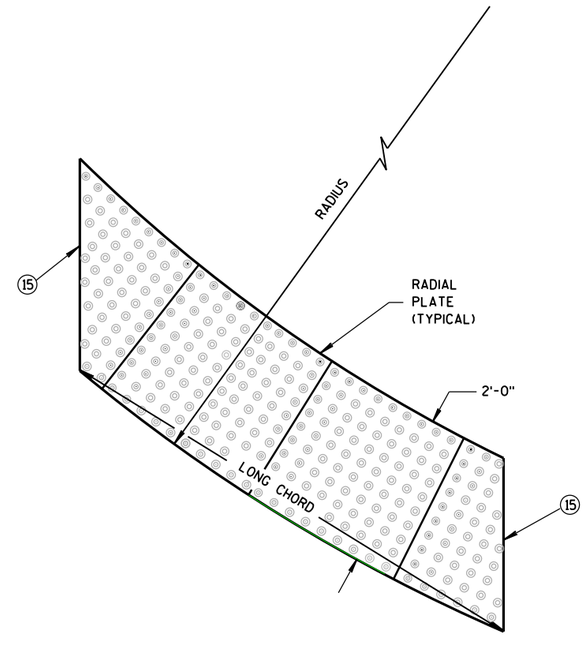


RECTANGULAR PLATES

RADIAL PLATES

DETECTABLE WARNING FIELDS (TYPICAL)

PLAN VIEW



RADIAL DETECTABLE WARNING FIELD ATTRIBUTES

CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

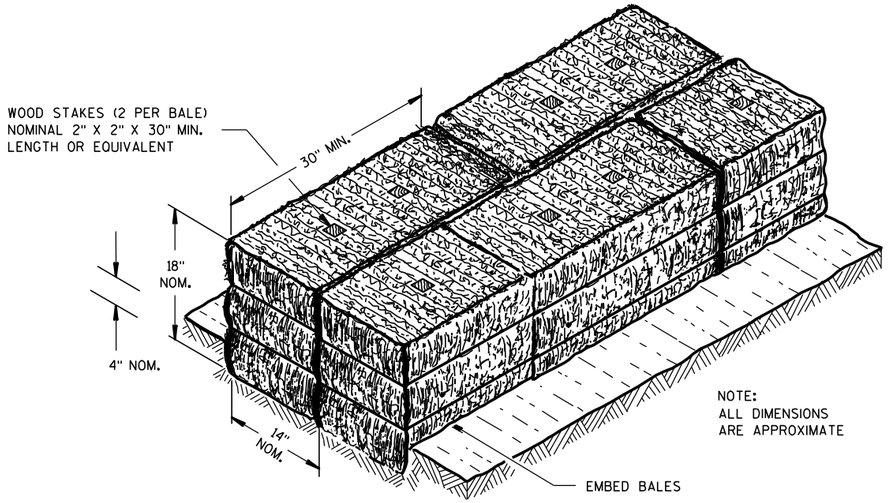
APPROVED
June, 2017 — DATE
FHWA
/S/ Rodney Taylor
ROADWAY STANDARDS UNIT SUPERV
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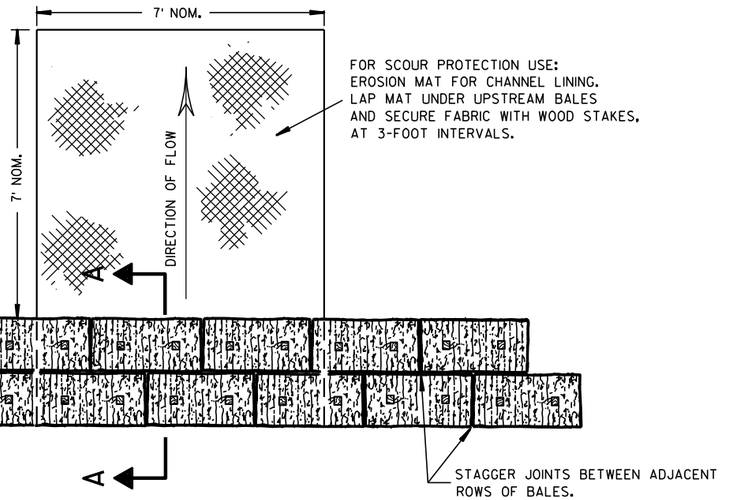
S.D.D. 8 D 5-19g

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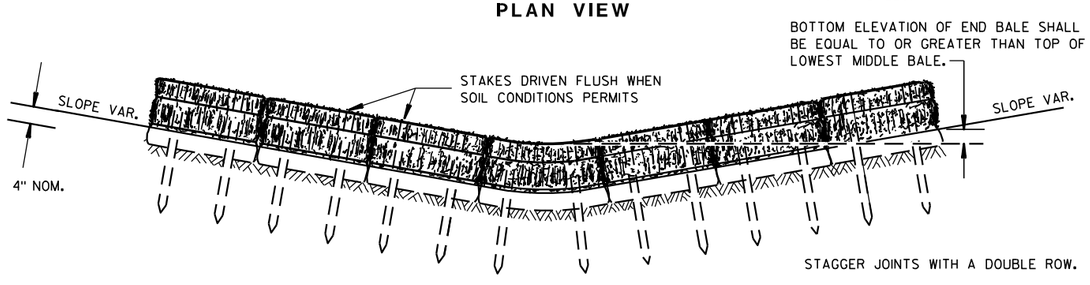
S.D.D. 8 D 5-19g



SECTION A-A



PLAN VIEW



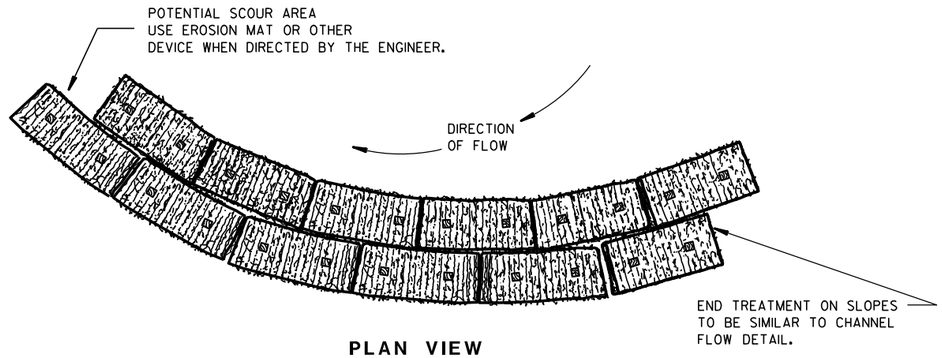
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

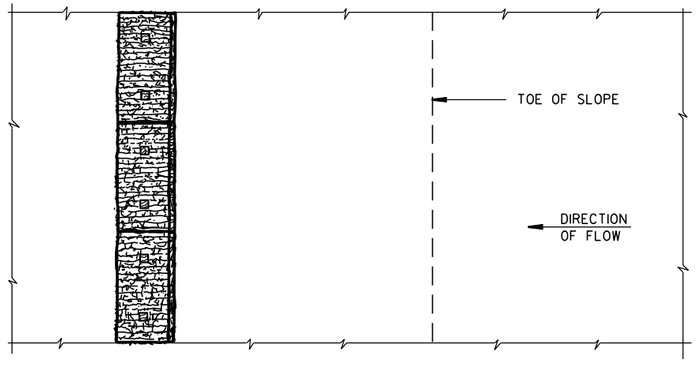
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

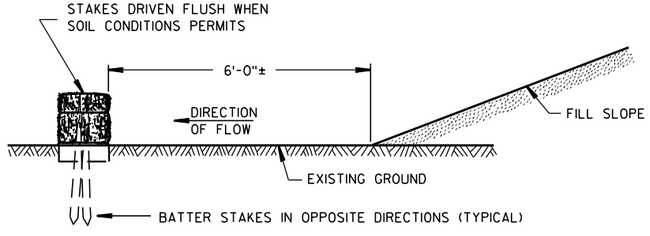


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

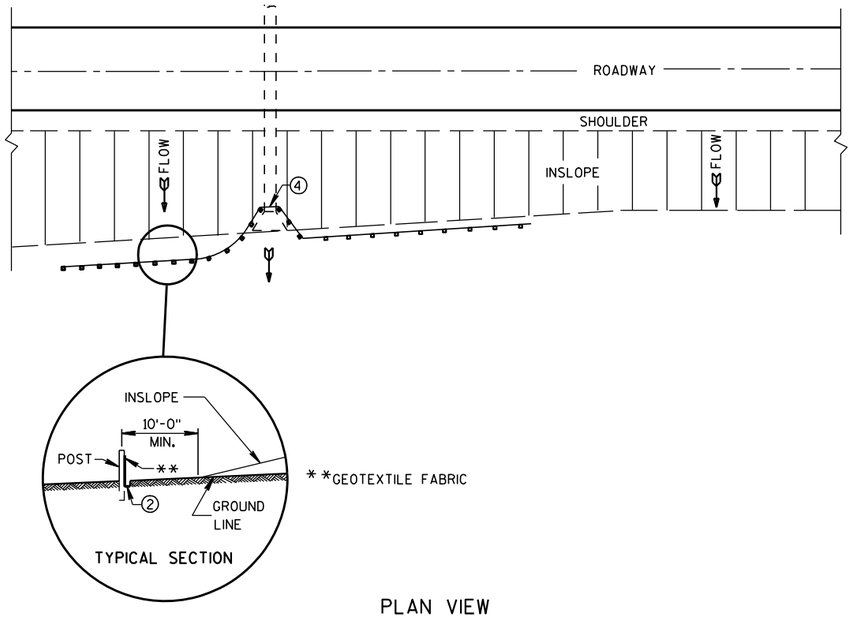
APPROVED
6/04/02 — DATE
/S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

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S.D.D. 8 E 8-3

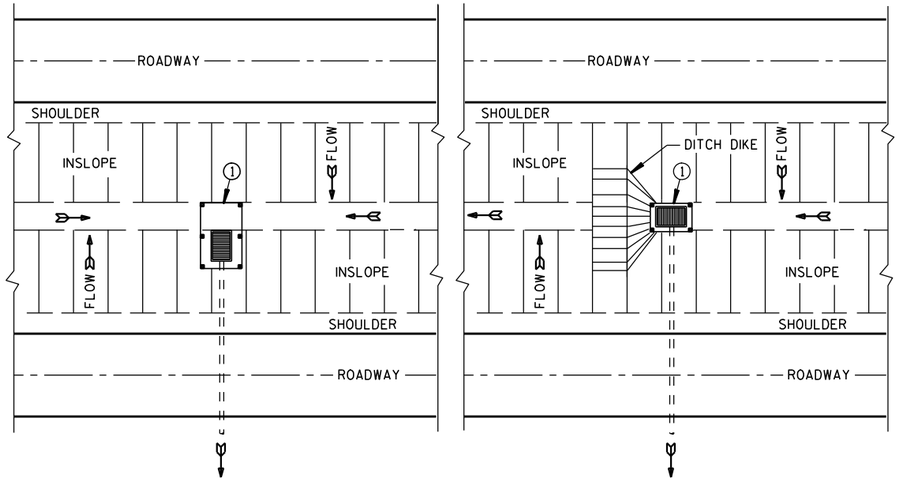
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S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



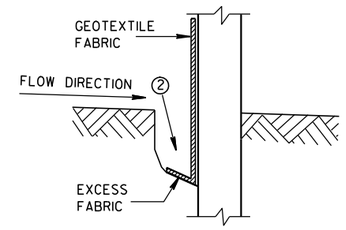
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

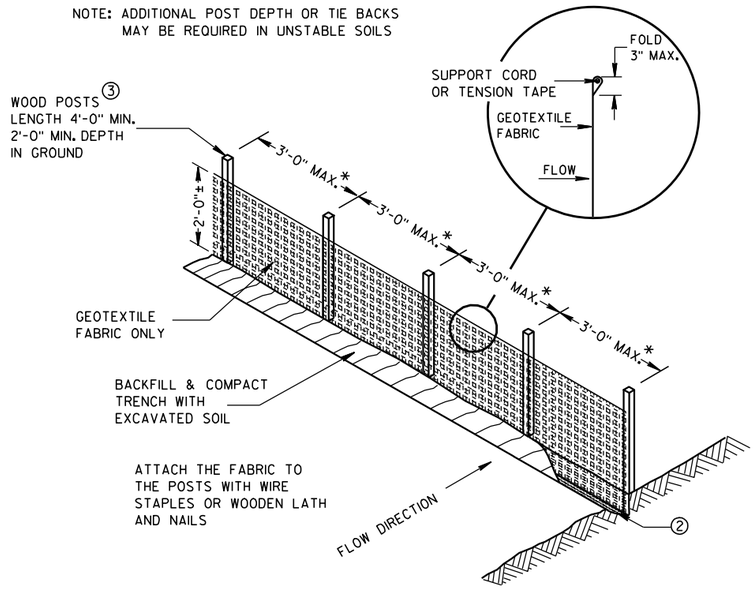
GENERAL NOTES

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

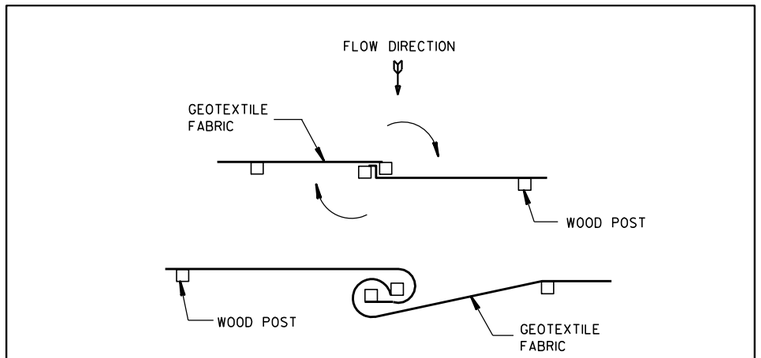
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL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



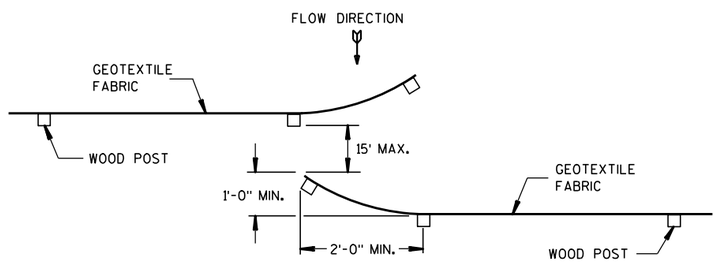
TRENCH DETAIL



SILT FENCE

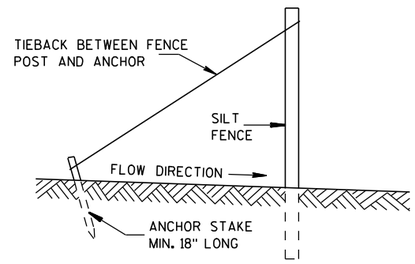


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

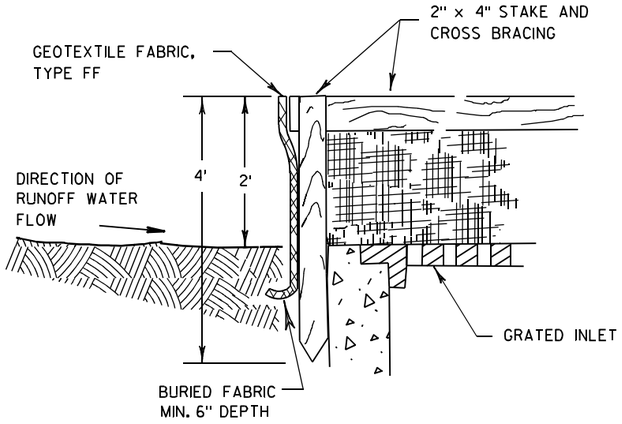
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

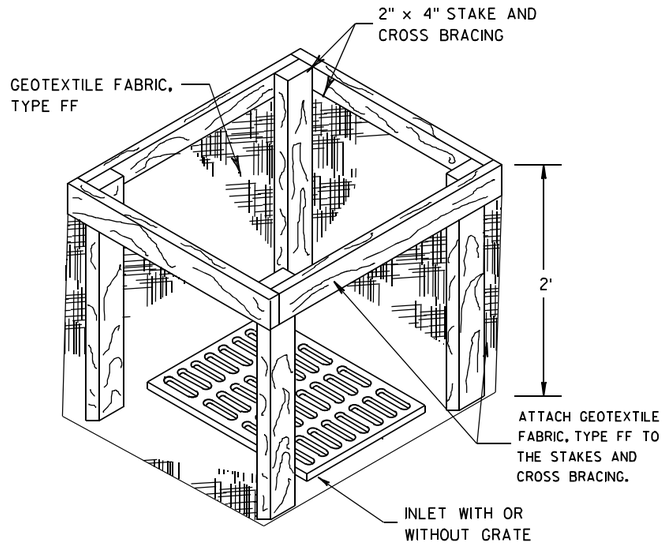
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S.D.D. 8 E 9-6

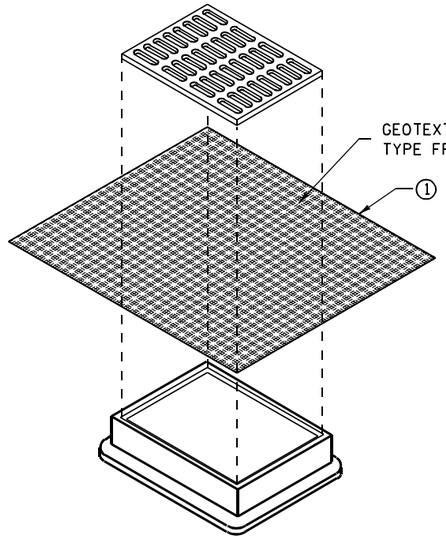
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S.D.D. 8 E 9-6



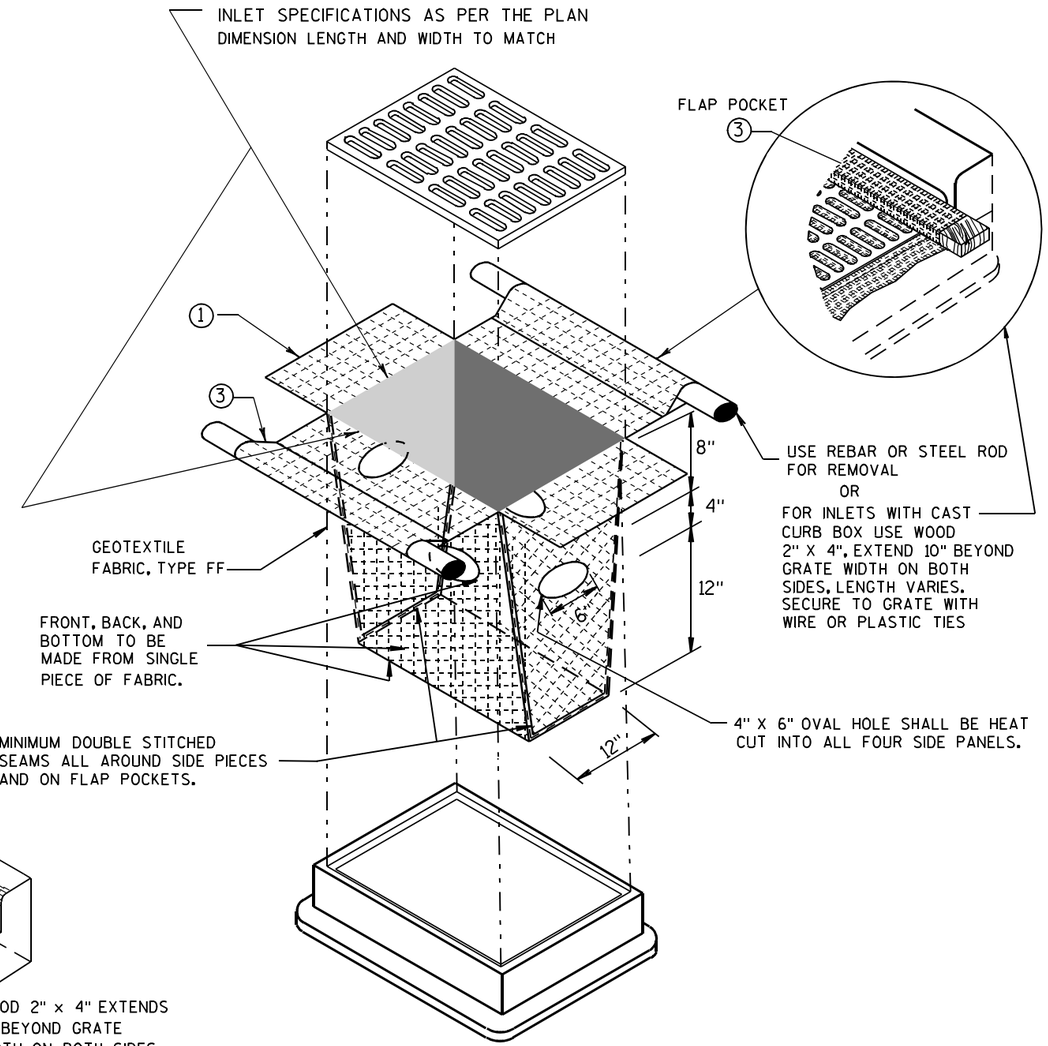


INLET PROTECTION, TYPE A



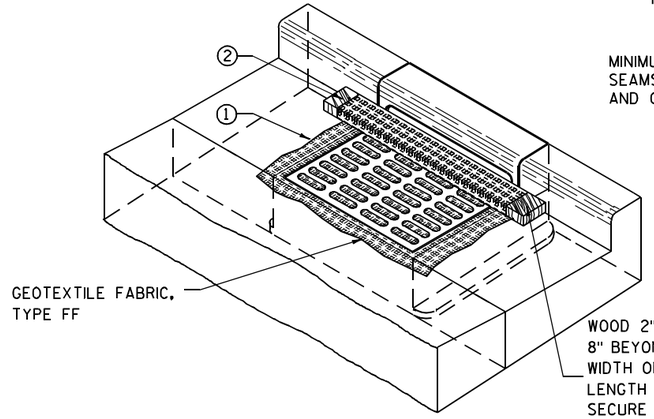
INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

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



INLET PROTECTION, TYPE D

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



INLET PROTECTION, TYPE C (WITH CURB BOX)

GENERAL NOTES

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

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

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

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

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

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

INSTALLATION NOTES

TYPE B & C

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

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

TYPE D

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

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

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

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/16/02
DATE

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

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

METAL APRON ENDWALLS

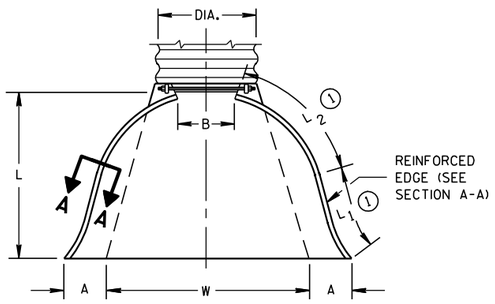
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4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

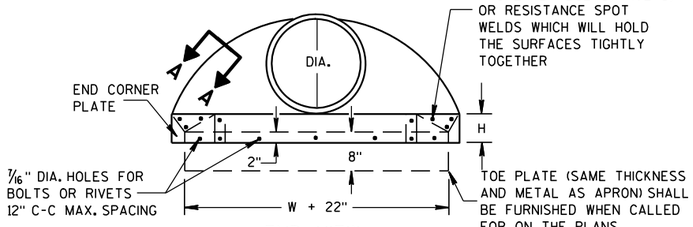
REINFORCED CONCRETE APRON ENDWALLS

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

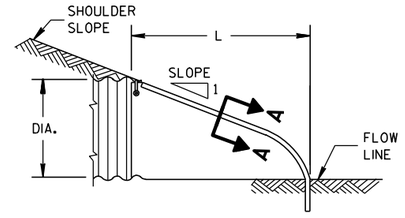
*MINIMUM
**MAXIMUM



PLAN VIEW

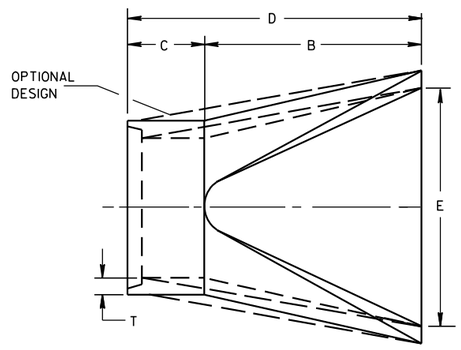


END VIEW

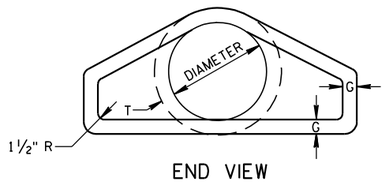


SIDE ELEVATION

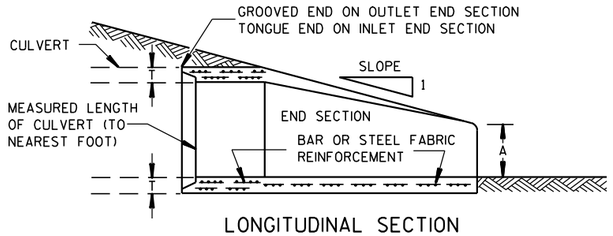
METAL ENDWALLS



PLAN

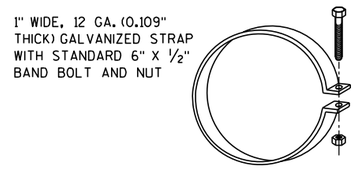


END VIEW



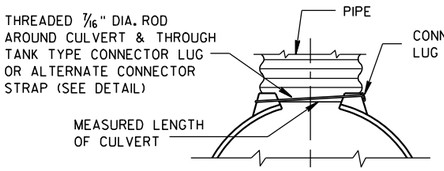
LONGITUDINAL SECTION

CONCRETE ENDWALLS

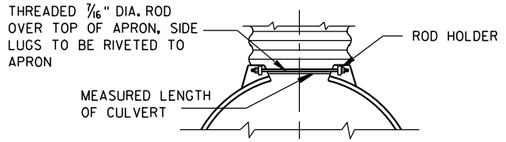


ALTERNATE FOR TYPE 1 CONNECTION

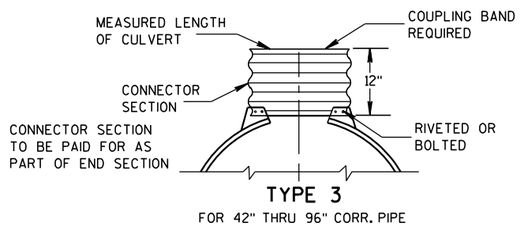
END SECTION CONNECTOR STRAP



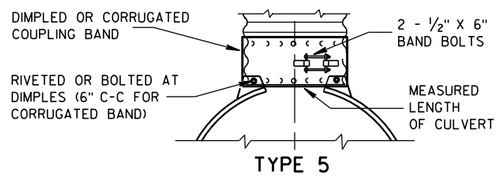
TYPE 1
FOR 12" THRU 24" CORR. PIPE



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

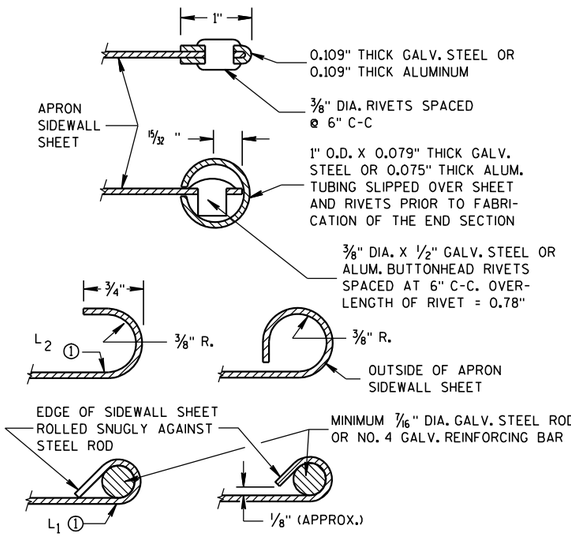
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

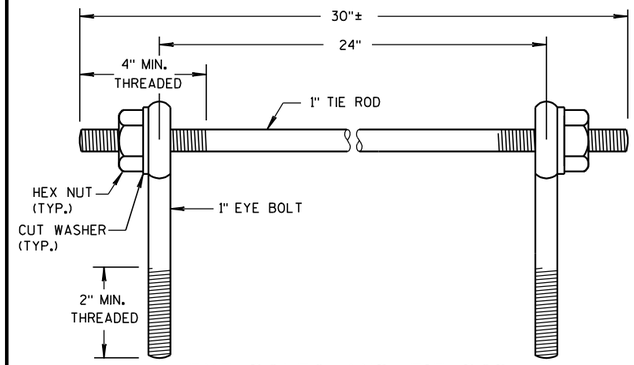
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

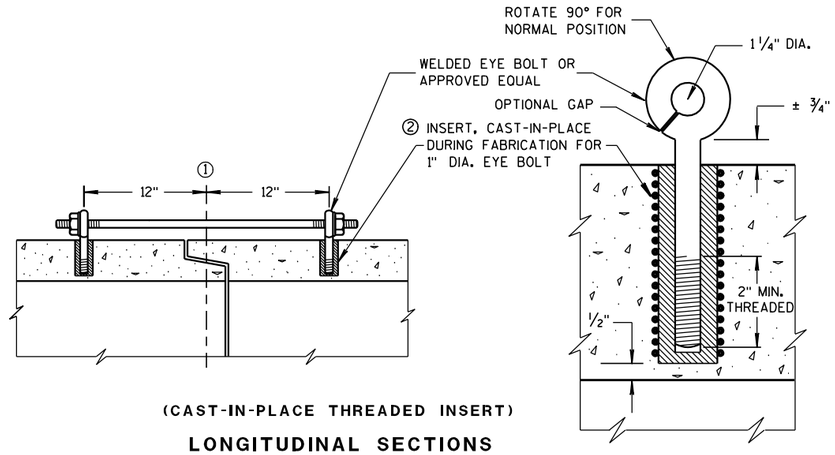
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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.

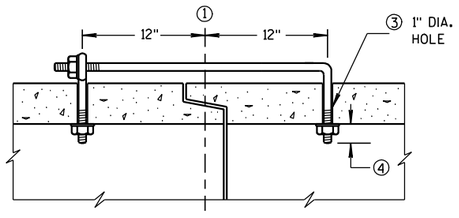
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

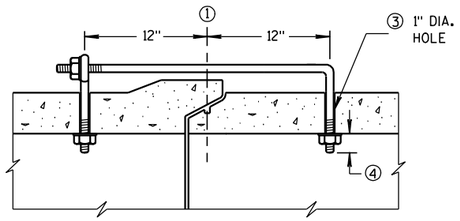
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

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)

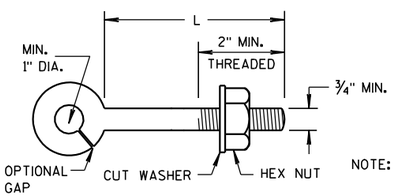


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

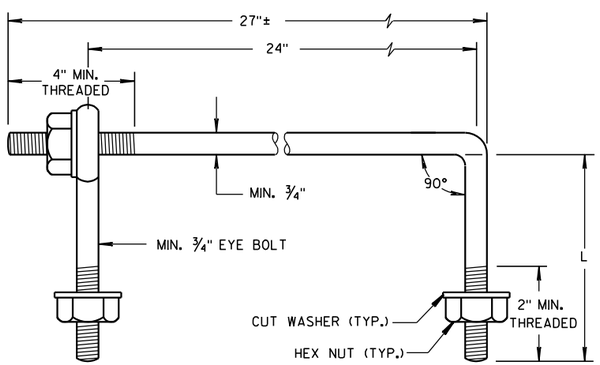
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



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

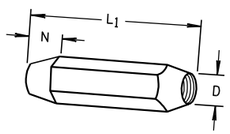
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

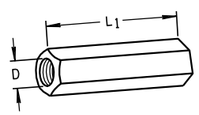
ADJUSTABLE TIE ROD TABLE

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



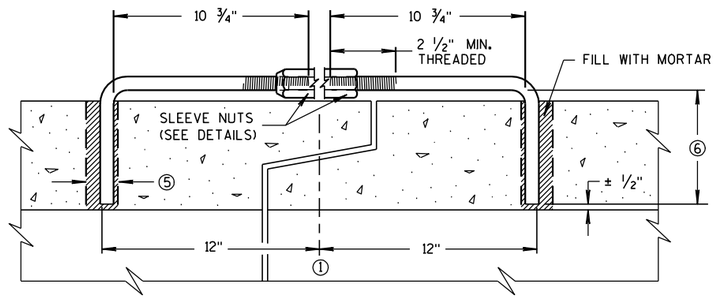
TAPERED



PLAIN

RIGHT AND LEFT THREADS

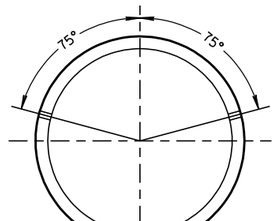
SLEEVE NUTS



LONGITUDINAL SECTION

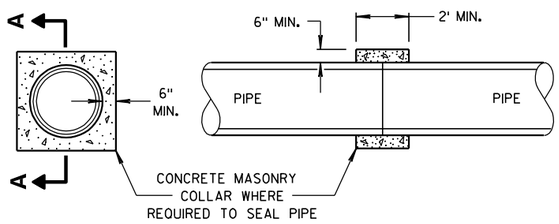
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

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

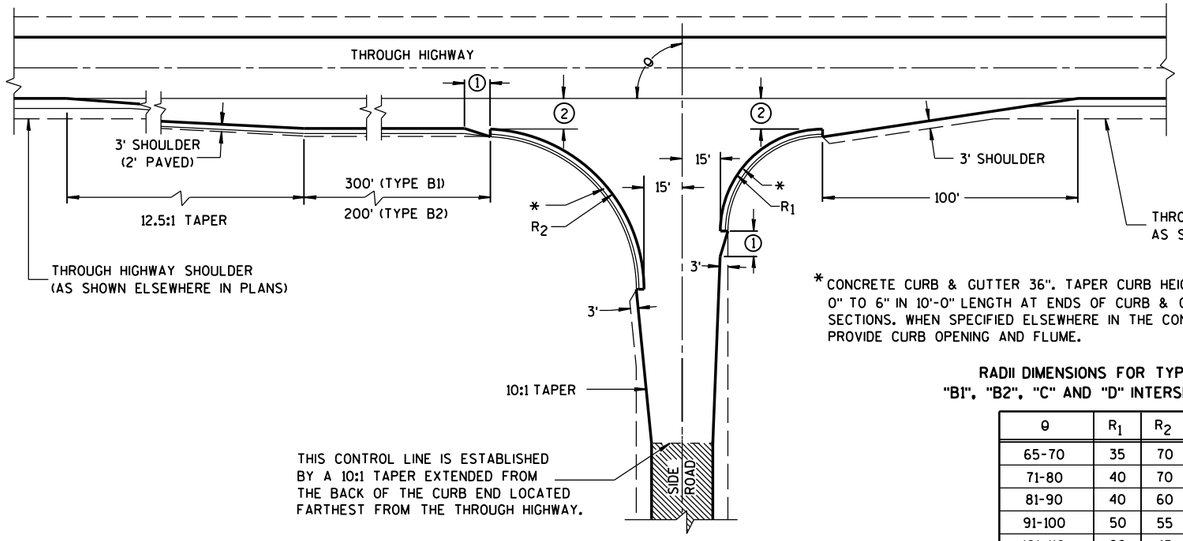
JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
201
FHWA

6

S.D.D. 8 F 4-7

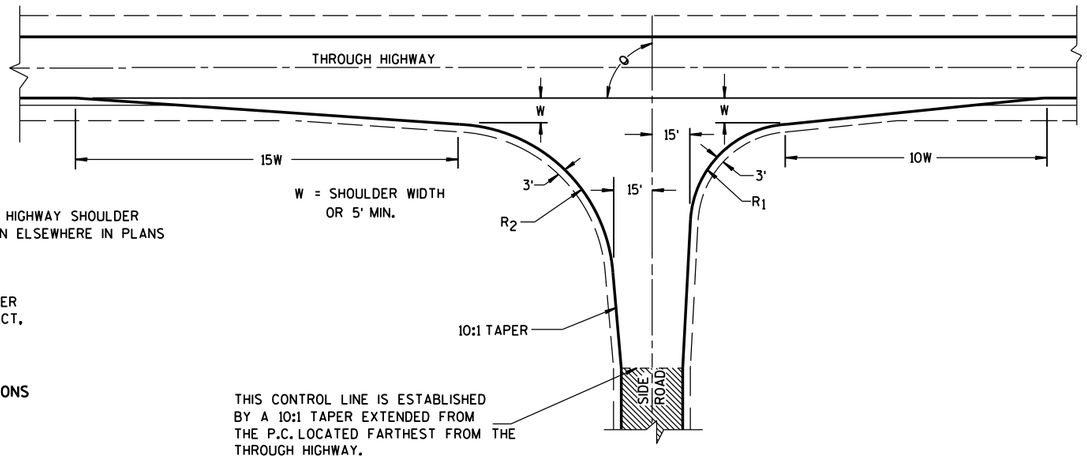


TYPE "B1" AND "B2"

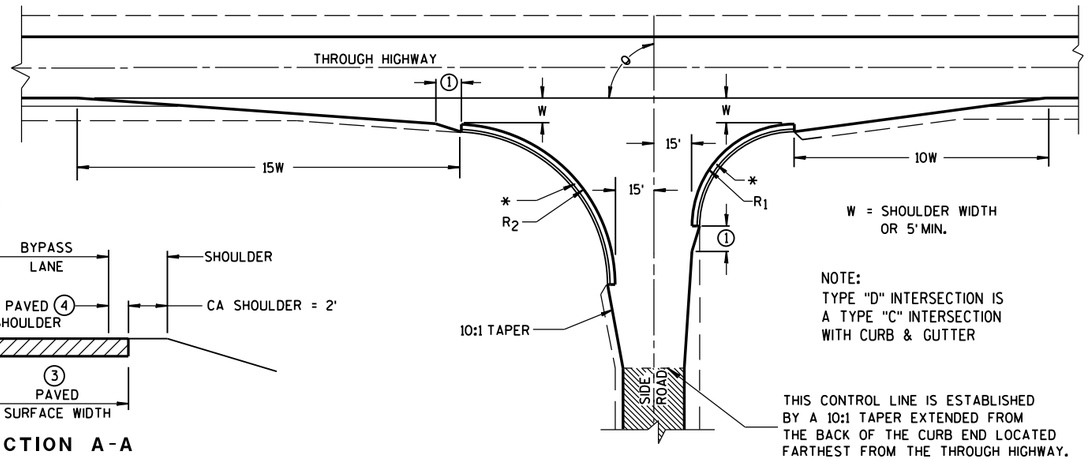
*CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

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

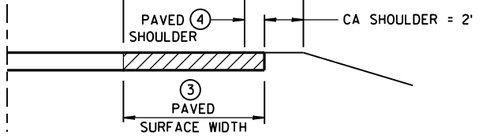
(1) 10-FT TYPICAL.

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

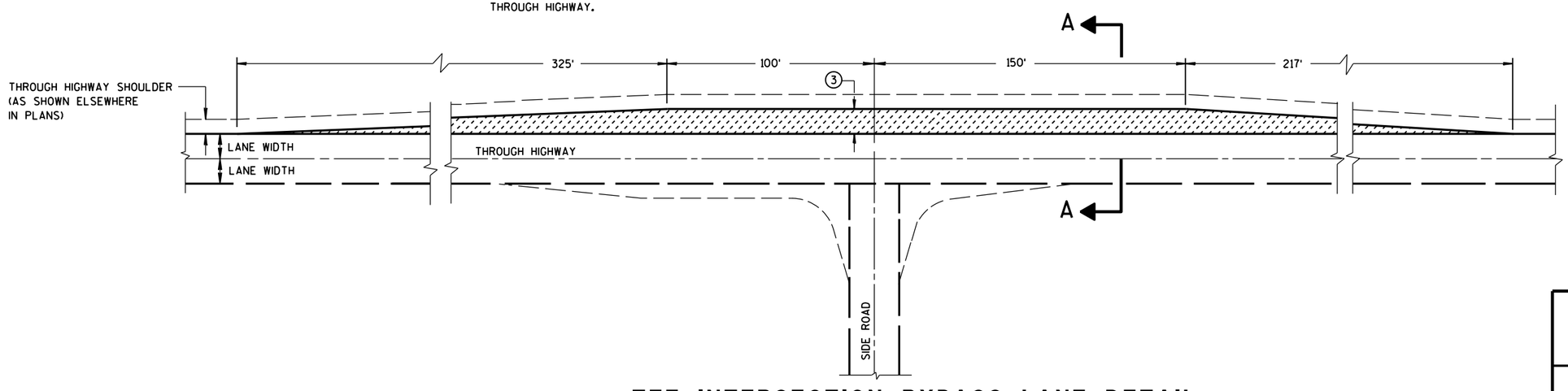
**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.

(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)



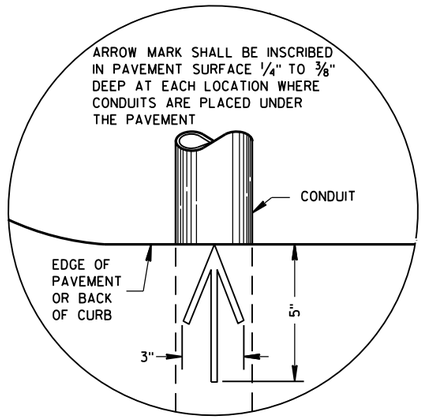
TEE INTERSECTION BYPASS LANE DETAIL

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

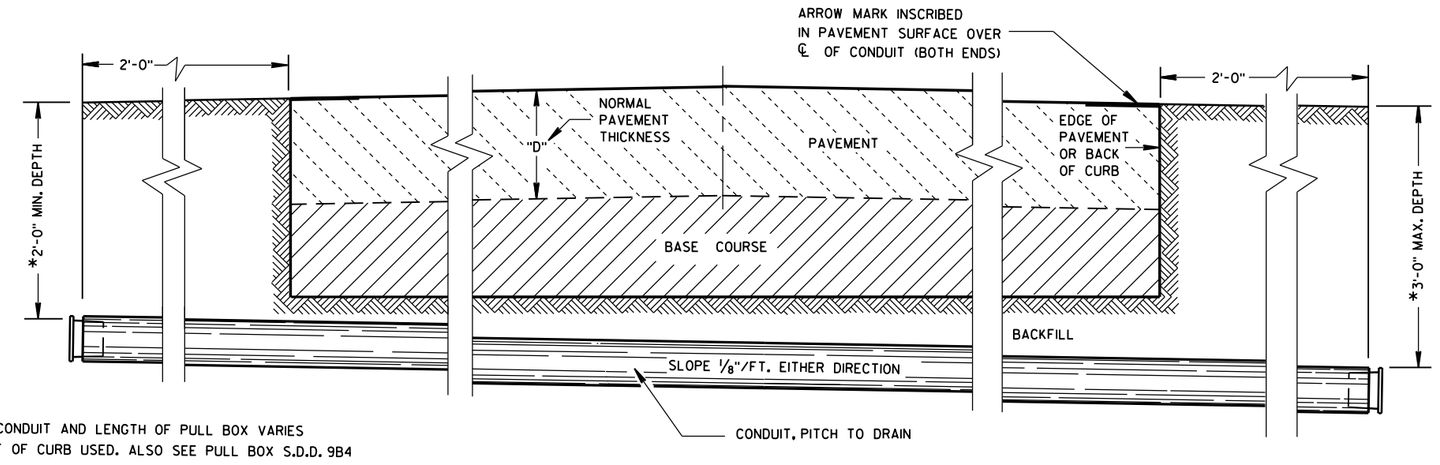
6

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

6

S.D.D. 9 B 2-10

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

DIMENSION IN INCHES		NON-CONDUCTIVE PULL BOX	
BOX DIAMETER ** (INSIDE)	A	24	24
BOX OVERALL OUTSIDE DIAMETER	B	27	27
BOX LENGTH	C	36	42
FRAME OPENING	D	22 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".

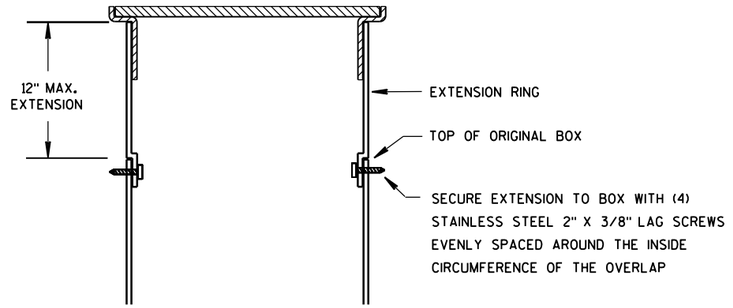
THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

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

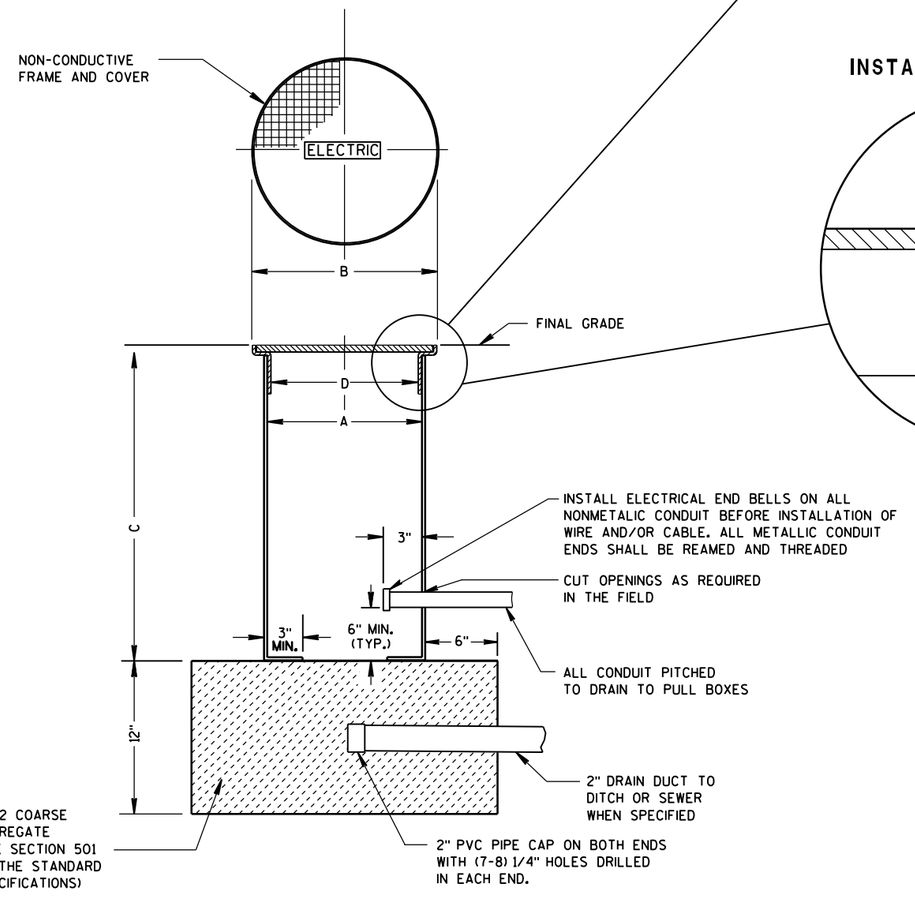
ENTIRE BOX MUST BE CONSTRUCTED OF NON-CONDUCTIVE MATERIALS WITH THE EXCEPTION OF STAINLESS STEEL FASTENERS AND MAGNETIC LOCATABLE DEVICE.

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.

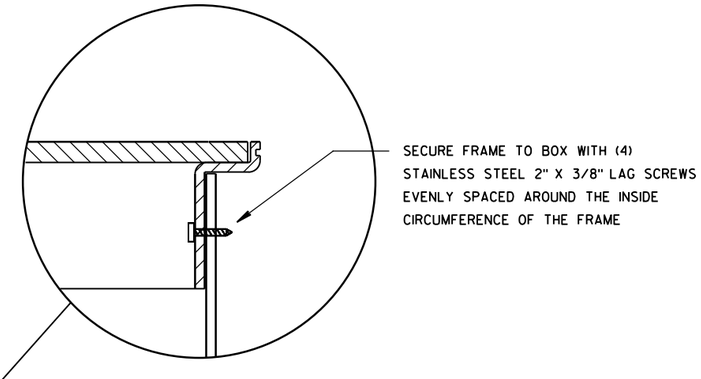


BOX EXTENSION

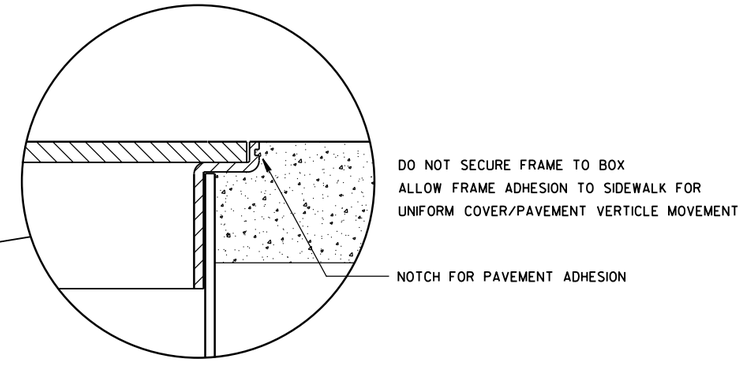


NON-CONDUCTIVE PULL BOX

INSTALLED IN SOD OR CRUSHED AGGREGATE



INSTALLED IN SIDEWALK



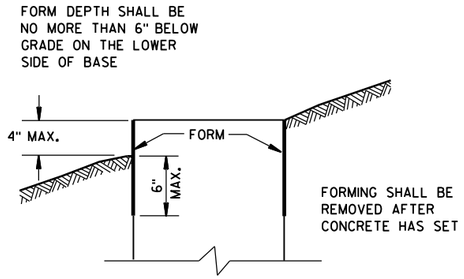
PULL BOX NON-CONDUCTIVE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

S.D.D. 9 B 16-1



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 DRAWING SHALL 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 AS 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 AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X 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 NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

GENERAL NOTES (CONTINUED)

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

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC 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 1, TYPE 2, TYPE 5, AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE OF THE TYPE 2 AND TYPE 5 BASES 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" "L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND END 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 BY THE ENGINEER.

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

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

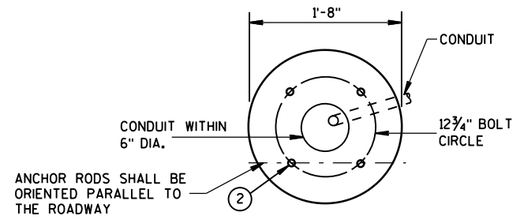
(4) (6) NO. 6 X 6'-8" BAR STEEL REINFORCEMENT.

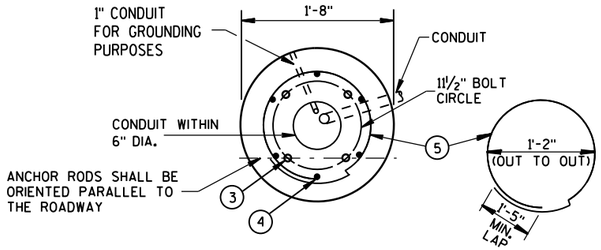
(5) (7) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

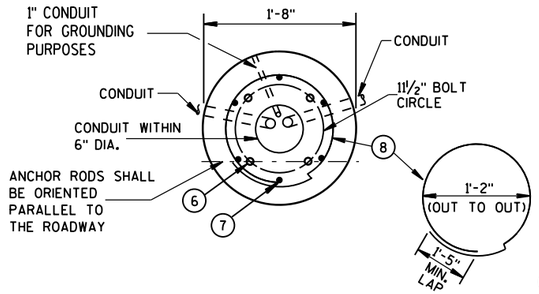
(6) (4) 1" DIA. X 3'-6" ANCHOR RODS.

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

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

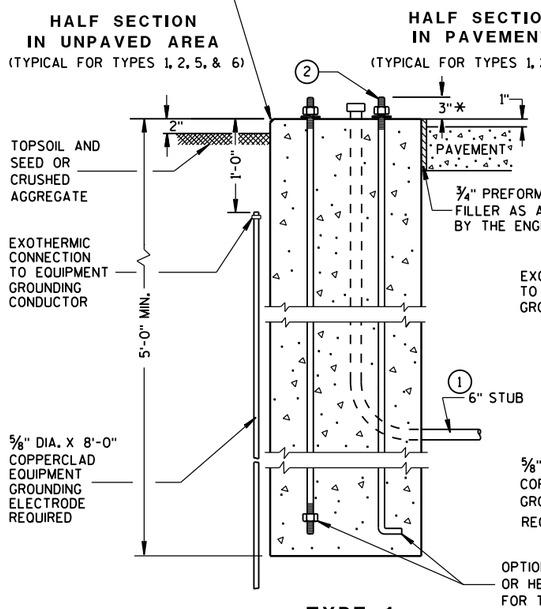






HALF SECTION IN UNPAVED AREA

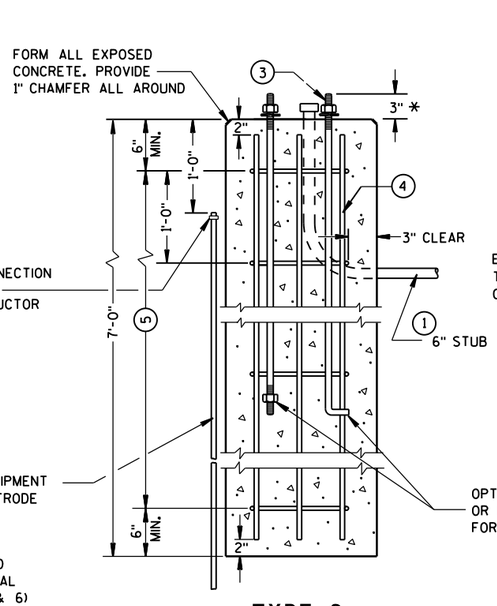
(TYPICAL FOR TYPES 1, 2, 5, & 6)



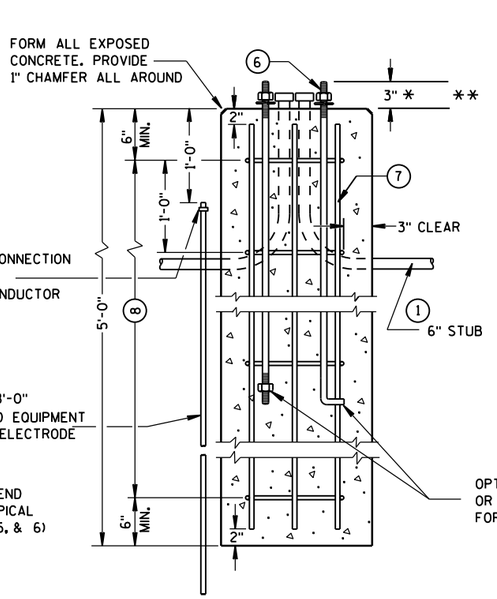
HALF SECTION IN PAVEMENT

(TYPICAL FOR TYPES 1, 2, 5, & 6)

TYPE 1



TYPE 2



TYPE 5 & 6

CONCRETE BASES

* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 3¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

** FOR NONBREAKAWAY INSTALLATIONS, 4½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

CONCRETE BASES, TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

6

S.D.D. 9 C 2-7

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.

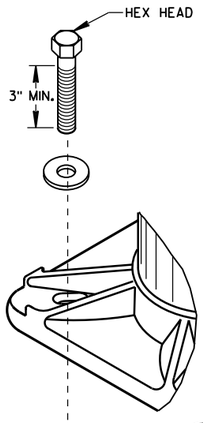
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

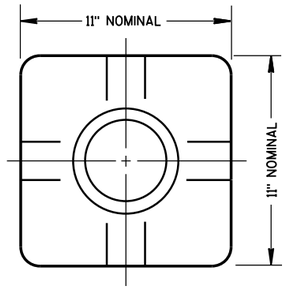
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

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

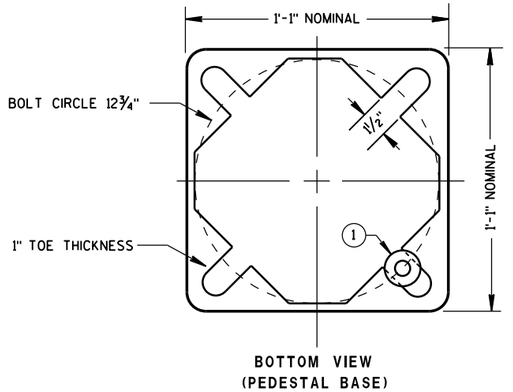
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

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

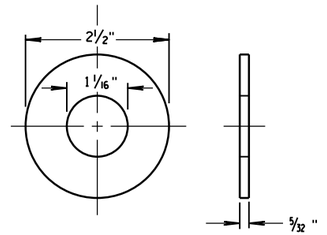




TOP VIEW
(PEDESTAL BASE)

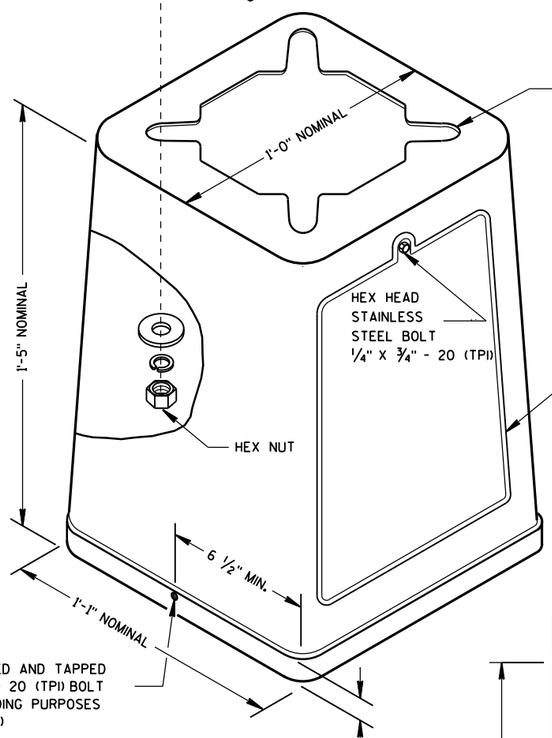


BOTTOM VIEW
(PEDESTAL BASE)

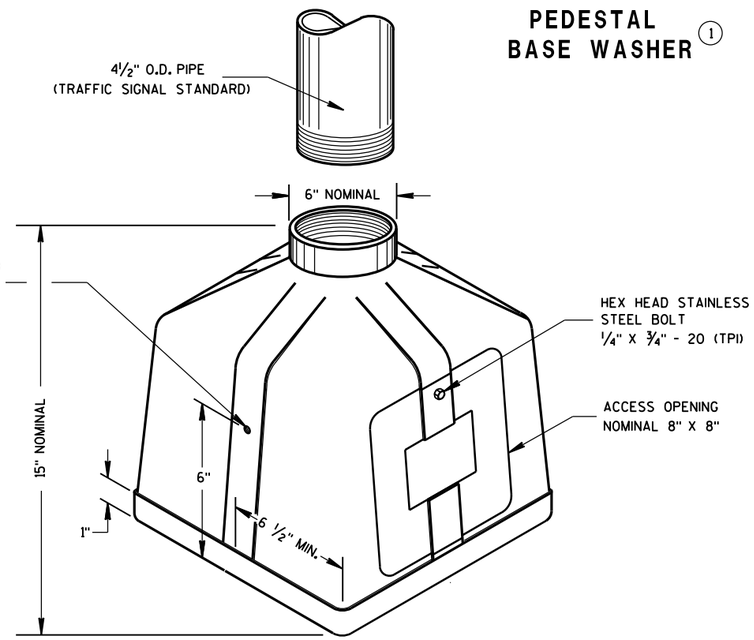


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

PEDESTAL BASE WASHER (1)

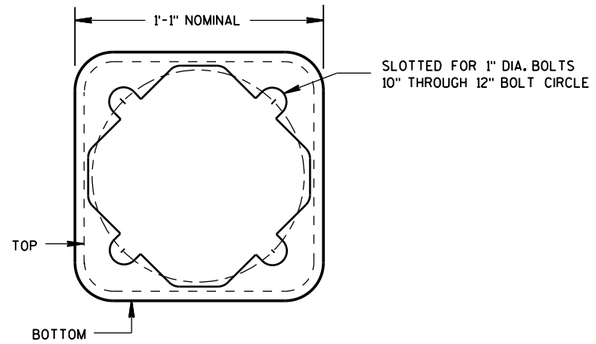


ISOMETRIC VIEW

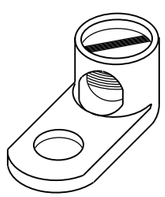


ISOMETRIC VIEW

PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)

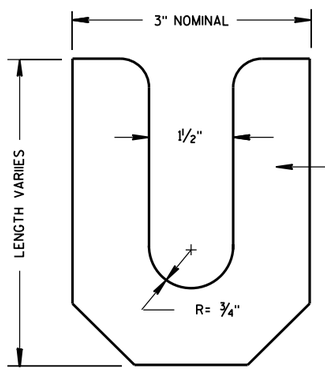


TYPICAL MECHANICAL CONNECTOR LUG

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

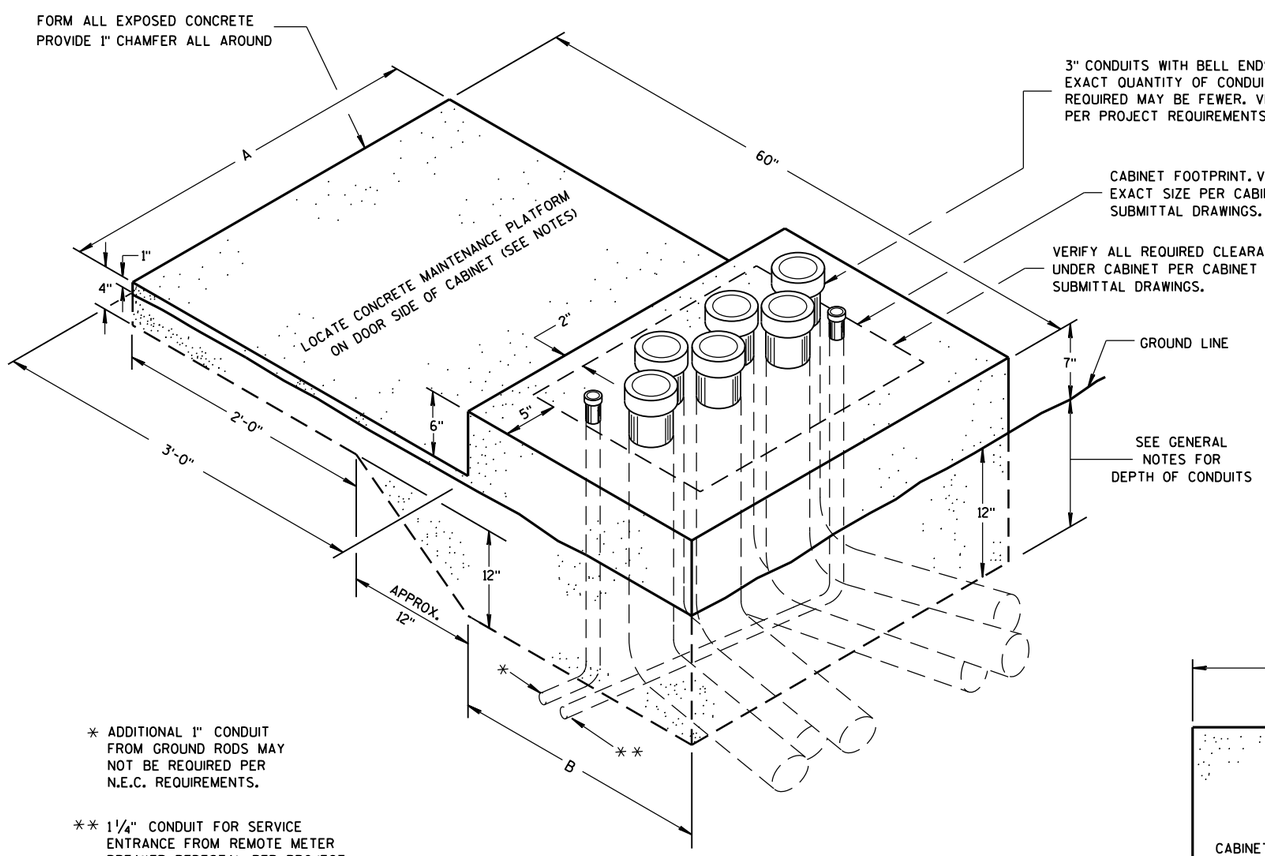
APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
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S.D.D. 9 C 3-4



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

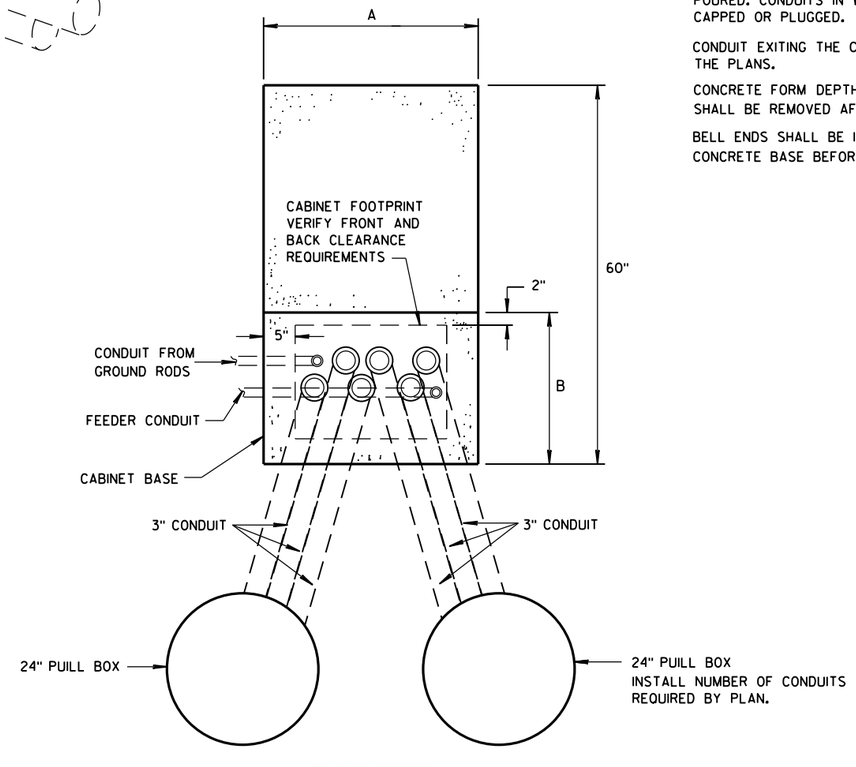
** 1¼" CONDUIT FOR SERVICE ENTRANCE FROM REMOTE METER BREAKER PEDESTAL PER PROJECT REQUIREMENTS. VERIFY LOCATION OF CONDUIT DEPENDENT UPON LOCATION OF INCOMING FEEDER AND FOR EASE OF CONNECTION TO LOAD CENTER.

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

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

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.

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

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND BE LEVEL.

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

MINIMUM BENDING RADIUS OF CONDUIT = 6 X 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 NONMETALLIC 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 NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

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

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" 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.

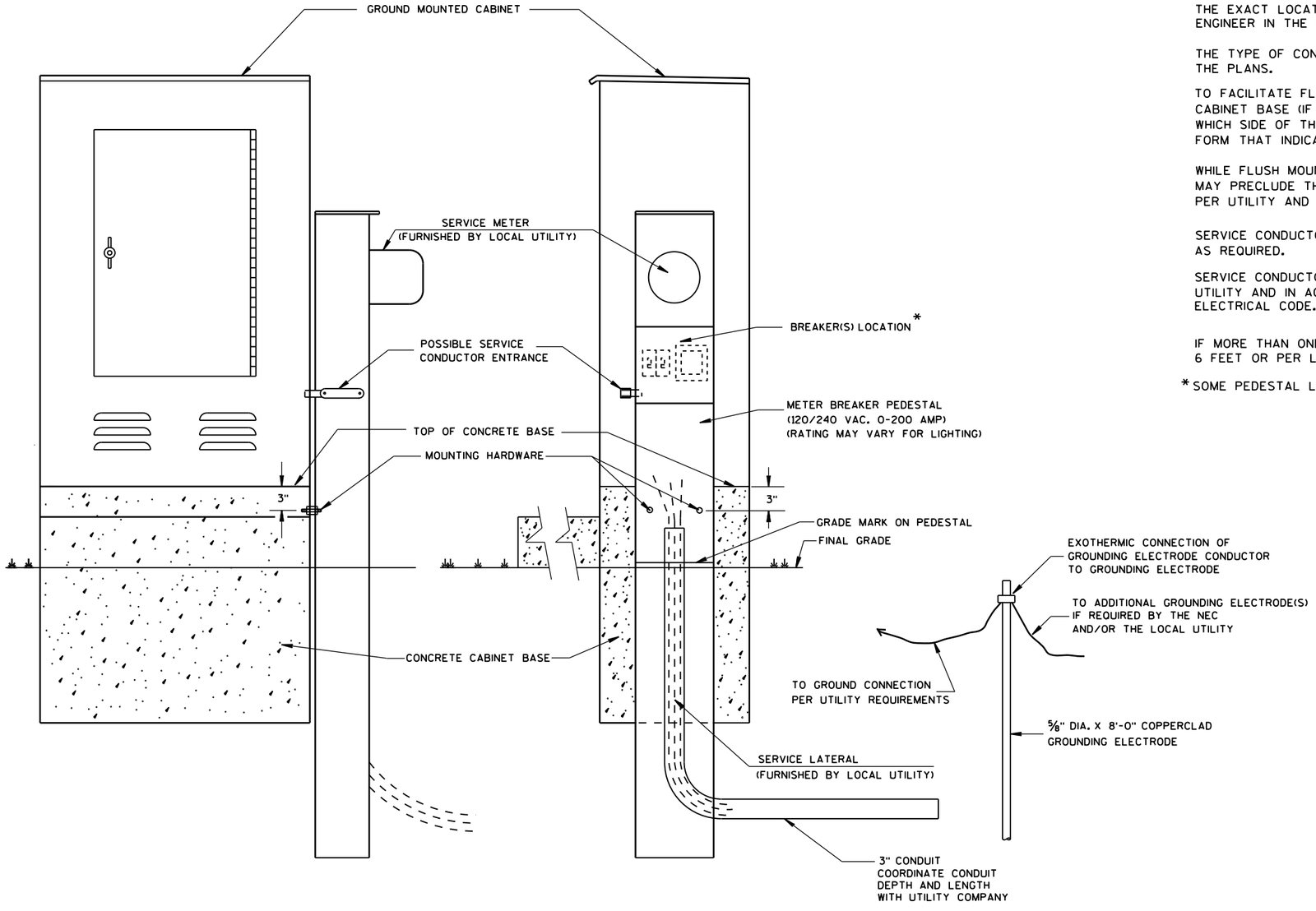
CONCRETE CONTROL CABINET BASE, TYPE L

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Nov. 2014 — DATE
/S/ Thomas Gonring — STATE LIGHTING ENGINE — WYS
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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.

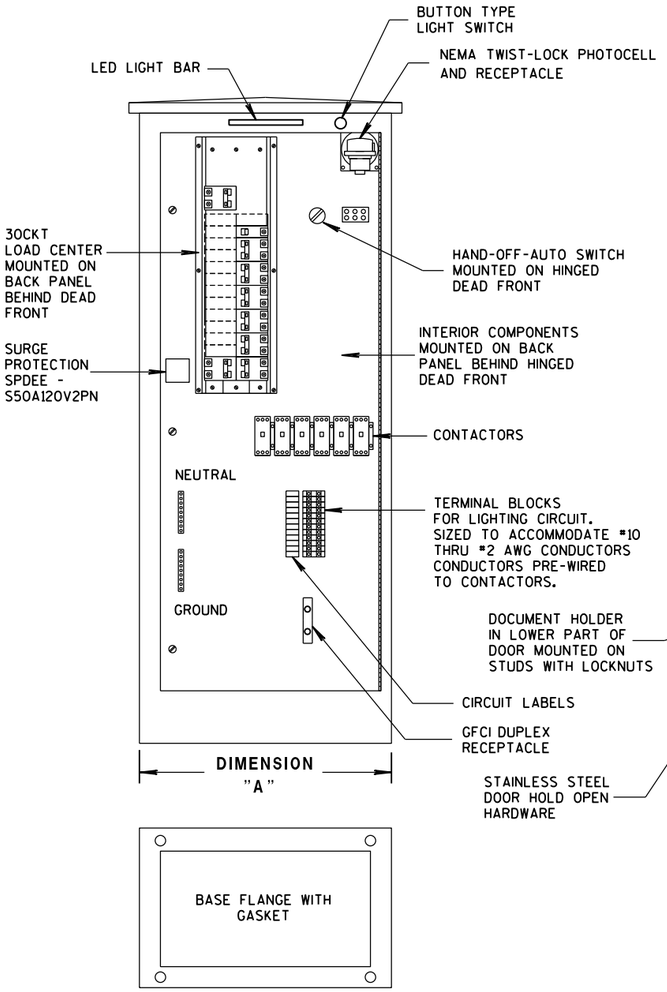
CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
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S.D.D. 9 D 1-5

FRONT INTERIOR ELEVATION



SIDE VIEW

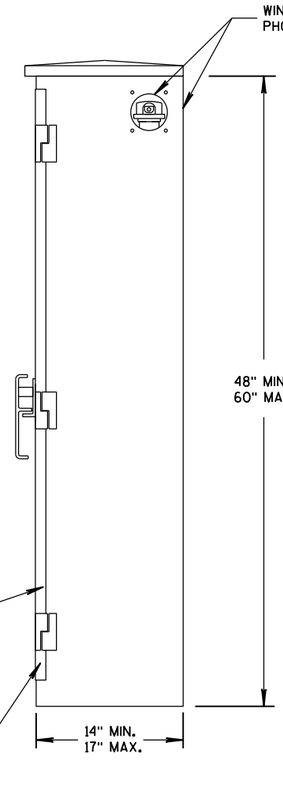
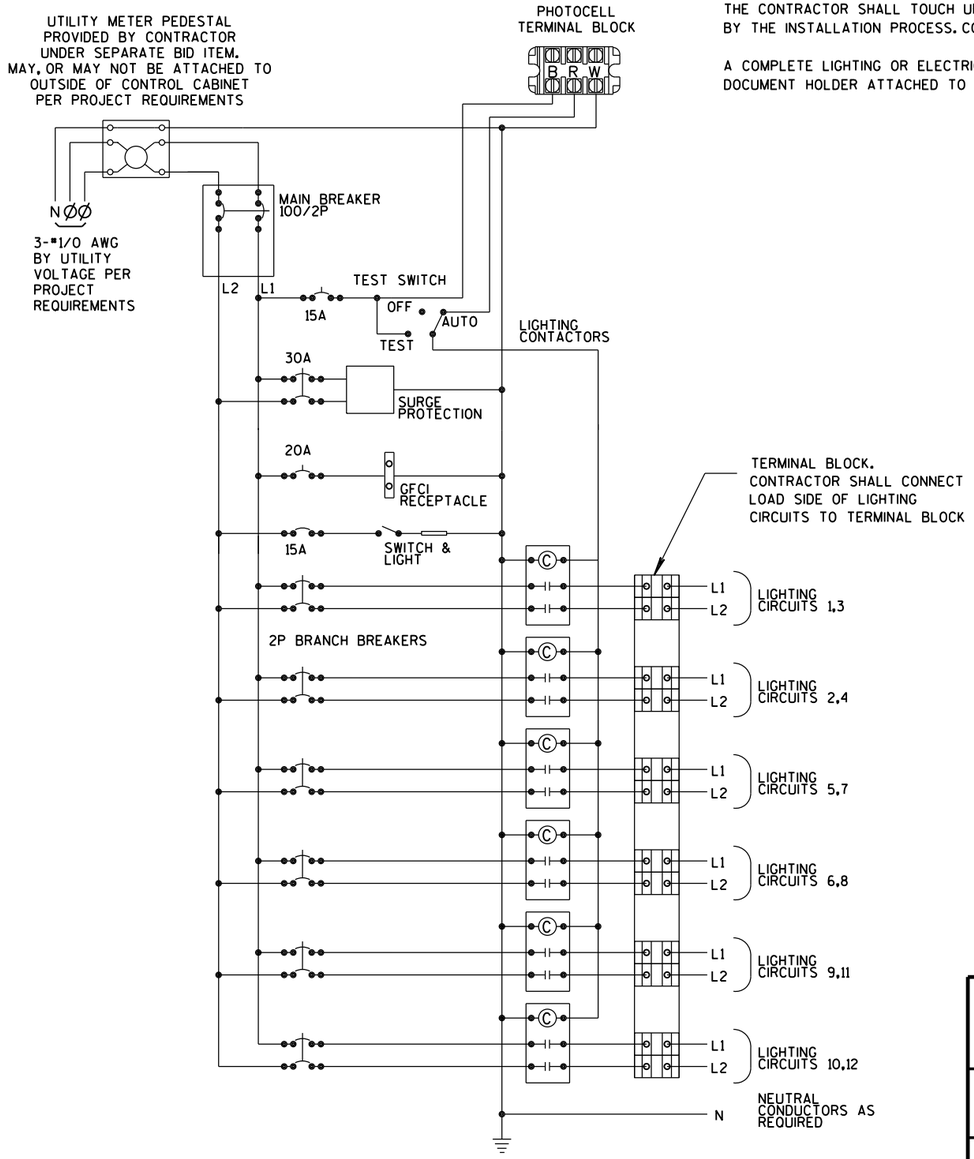


TABLE OF DIMENSIONS (INCHES)

CONCRETE BASE TYPE	CABINET WIDTH	DIMENSION "A"
L24	24"	24"
L30	30"	30"

LIGHTING CONTROL CABINET



CONTROL CABINET SCHEMATIC

GENERAL NOTES

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

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

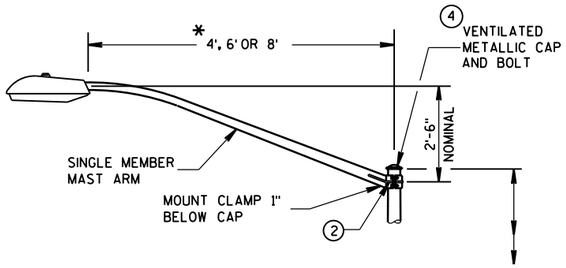
LIGHTING CONTROL CABINET 120/240 VOLT

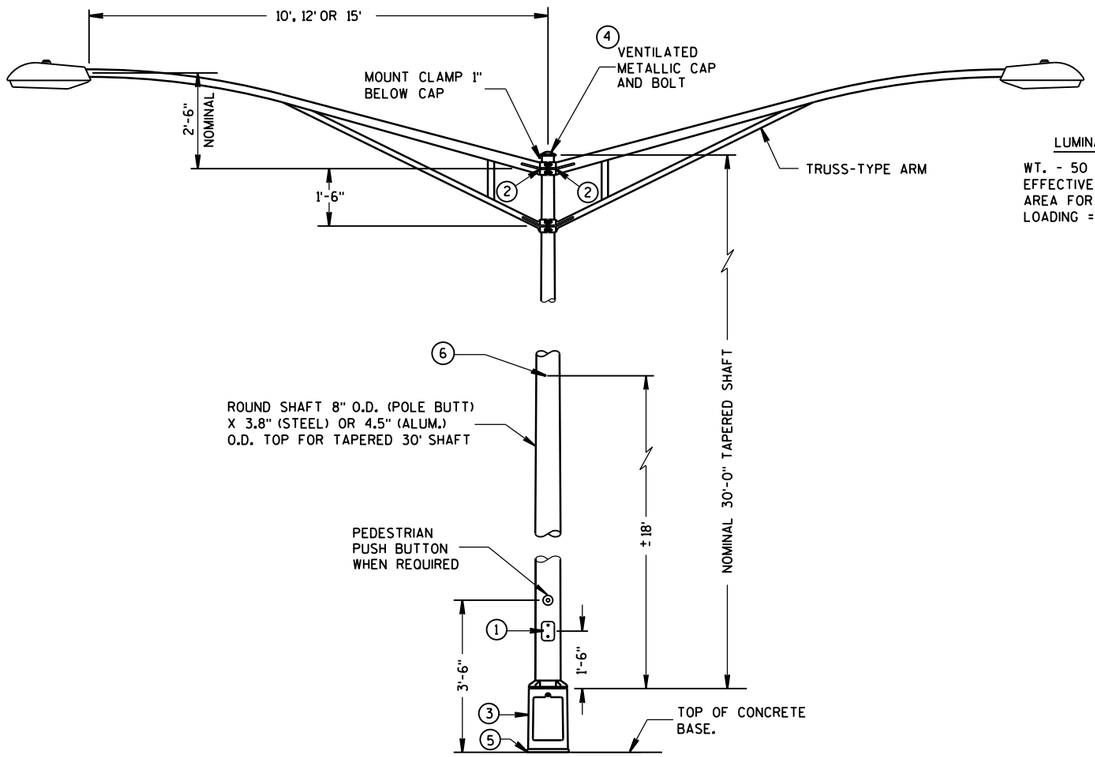
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Thomas Gonring — STATE LIGHTING ENGINEER
FHWA

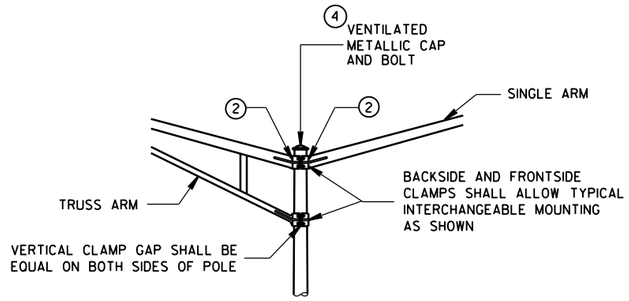
6
S.D.D. 9 D 4-2

*RISE FOR 4' ARM SHALL BE 2'-0".





TYPE 5 POLE MOUNTING CONFIGURATION
(MAXIMUM LOAD)
LIGHTING ONLY



INTERCHANGEABLE MOUNTING DETAIL

LUMINAIRE

WT. - 50 LBS.
EFFECTIVE PROJECTED
AREA FOR WIND
LOADING = 1.5 SQ. FT.

GENERAL NOTES

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

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.

THE TYPE 5 ALUMINUM POLES SHALL HAVE A MINIMUM WALL THICKNESS OF 0.188".

TYPE 5 STEEL POLES SHALL HAVE A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (.1196").

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

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

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

(2) GROMMETS, 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1⅜" 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 THE TRANSFORMER BASE.

(6) INTERNAL DUMBBELL-TYPE VIBRATION DAMPER.

6

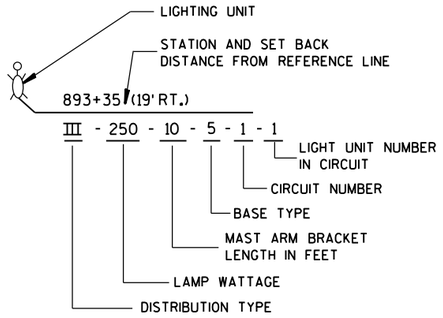
S.D.D. 9 E 1-14d

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

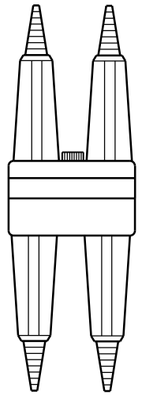
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

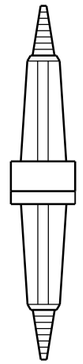
S.D.D. 9 E 1-14d



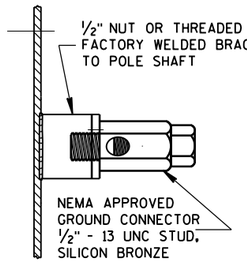
LIGHTING UNIT CODE
(TYPICAL)

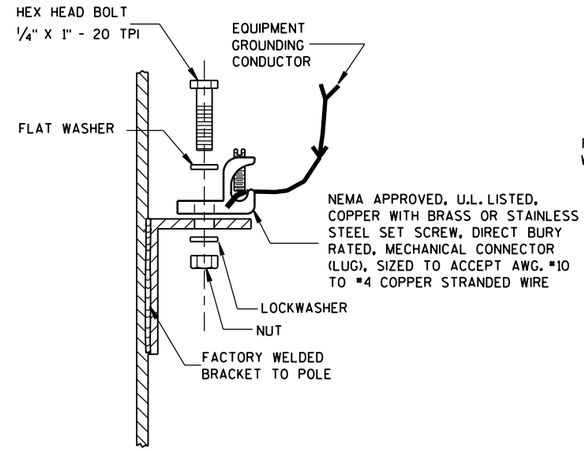


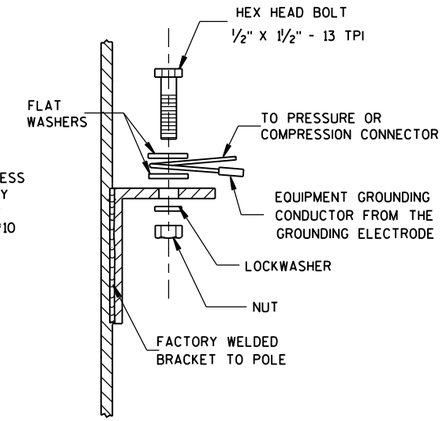
DETAIL "A"
BREAKAWY DOUBLE POLE WITH WATERPROOF INSULATING BOOT



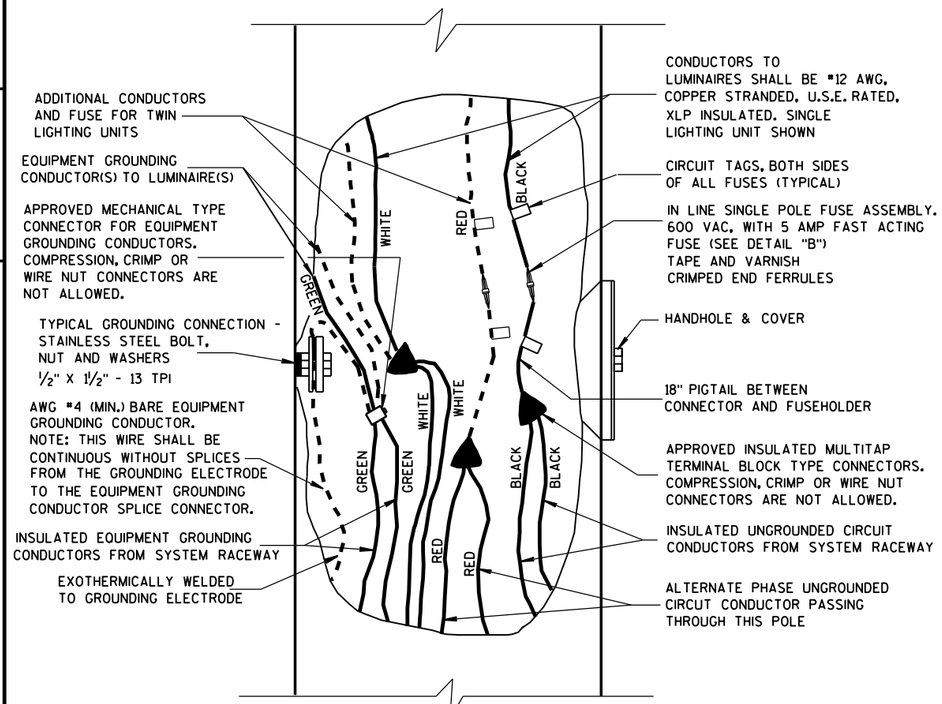
DETAIL "B"
BREAKAWY SINGLE POLE WITH WATERPROOF INSULATING BOOT



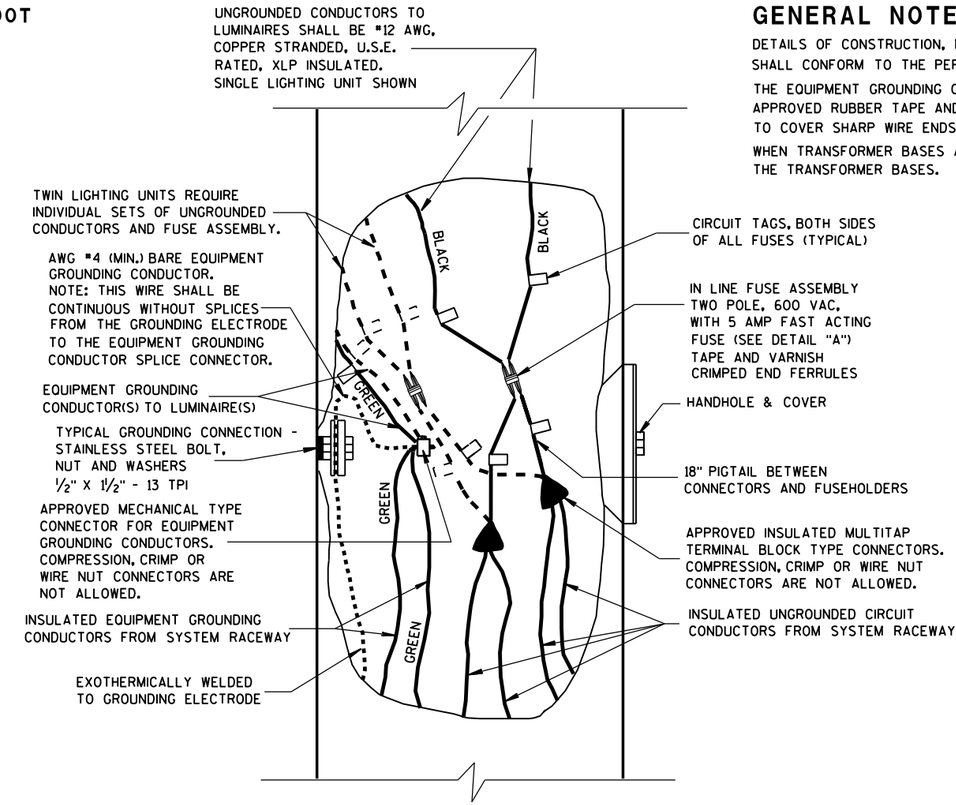




TYPICAL GROUNDING CONNECTIONS
NUT, BOLT, WASHERS AND LOCKWASHERS SHALL BE STAINLESS STEEL



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



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

GENERAL NOTES

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

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

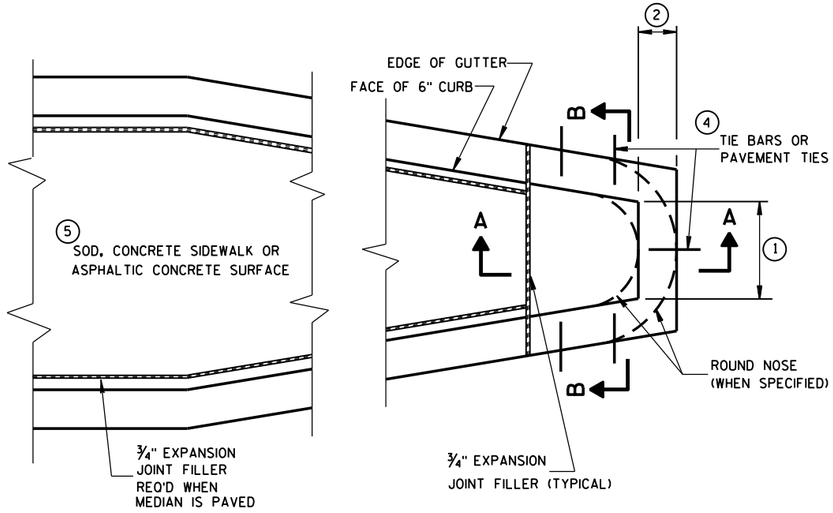
WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.

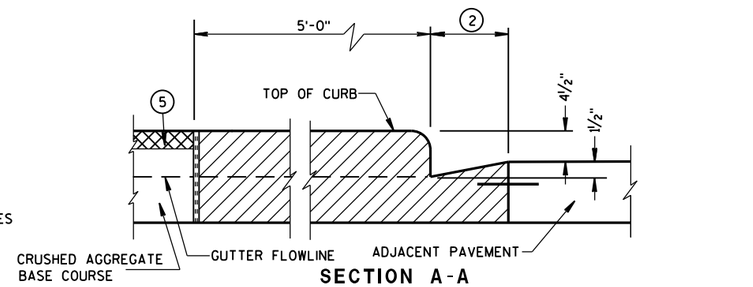
NON-FREEWAY LIGHTING UNIT POLE WIRING

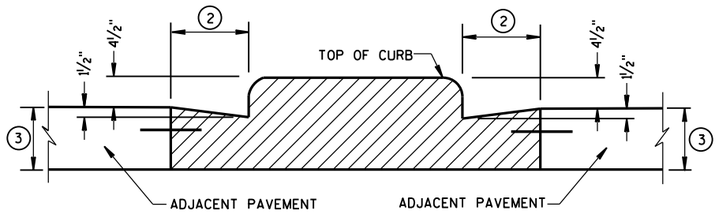
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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S.D.D. 9 E 3-5







CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

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

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

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

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

(1) NEW OR EXISTING CONCRETE PAVEMENT.

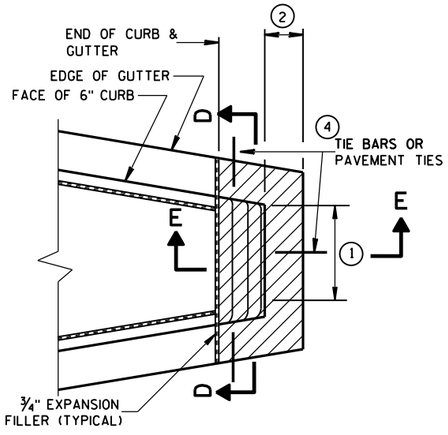
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

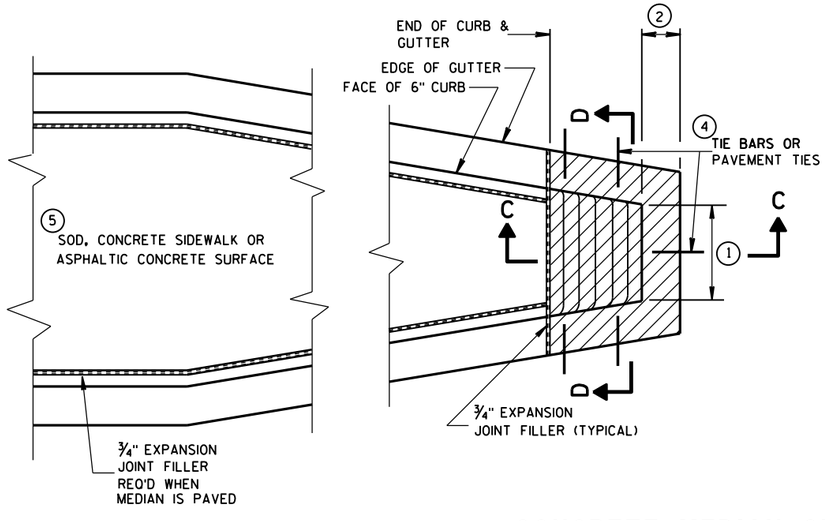
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

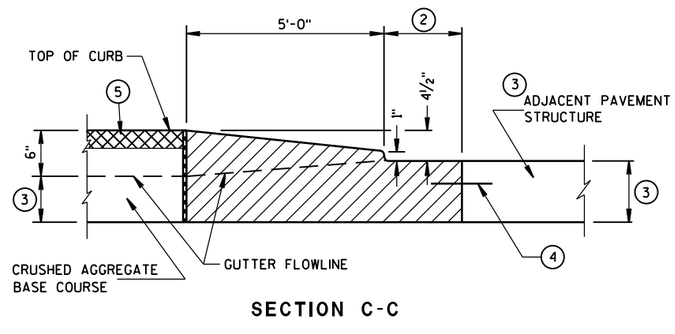
(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

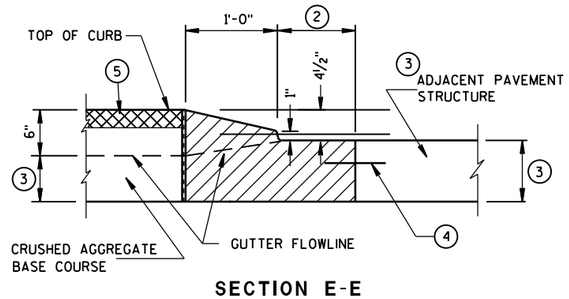
PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

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



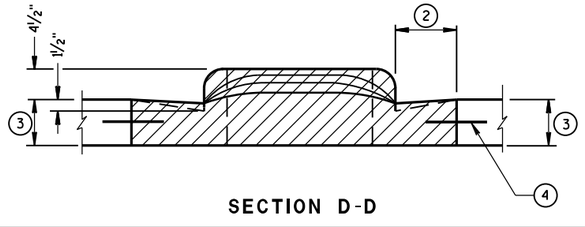






CONCRETE MEDIAN SLOPED NOSE TYPE 2

CONCRETE MEDIAN SLOPED NOSE TYPE 1



CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/8/2006
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS D ENGINEER

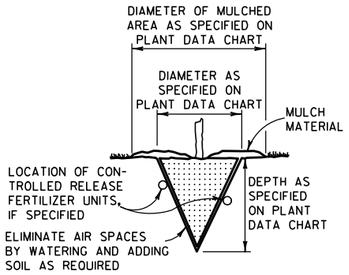
FHWA

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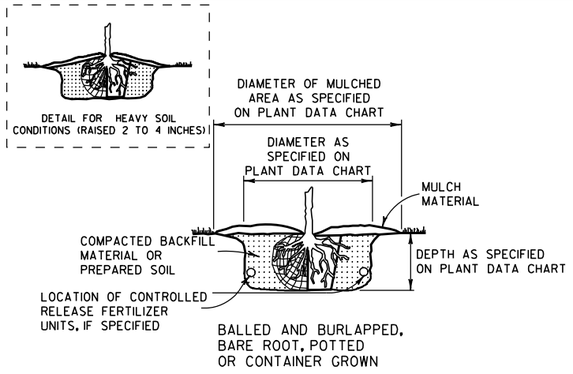
S.D.D. 11 B 2-2

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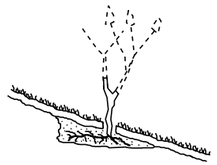
S.D.D. 11 B 2-2



MACHINE MOVED

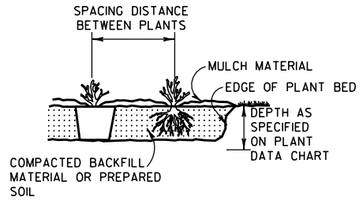


BALLED AND BURLAPPED, BARE ROOT, POTTED OR CONTAINER GROWN



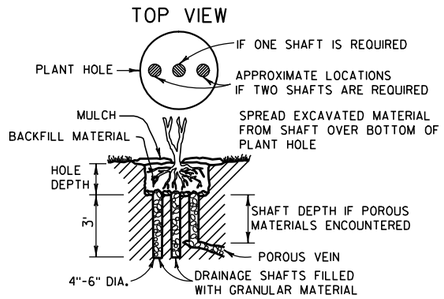
ACCOMMODATE ROOTS (SMOOTH AND STAGHORN SUMAC)

NOTE:
1) ENGINEER SHALL REQUIRE 3 SLITS IN POT TO SPEED DETERIORATION
2) METAL, PLASTIC OR OTHER NONDEGRADABLE POTS SHALL BE REMOVED PRIOR TO PLANTING



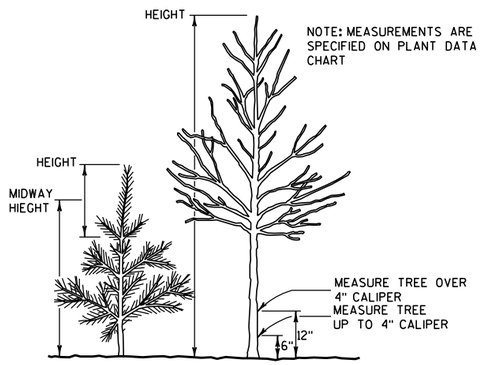
PREPARED BED (BARE ROOT AND POTTED)

PLANTING

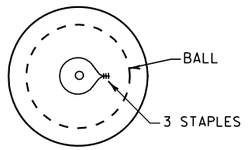


NOTE:
DRAINAGE SHAFT AS SPECIFIED ON PLANT DATA CHART

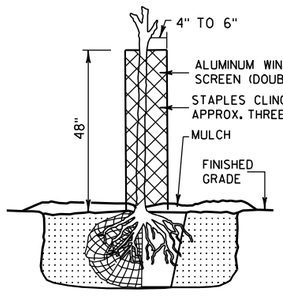
DRAINING



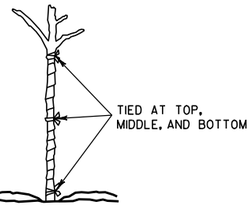
MEASURING



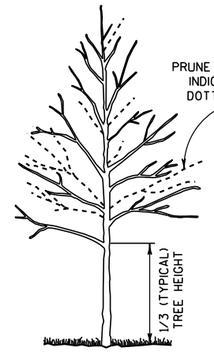
TOP VIEW



RODENT PROTECTION



WRAPPING



TALL DECIDUOUS TREES (ASH, MAPLE, LINDEN, OAK)

SINGLE STEMMED LOW DECIDUOUS TREES (CRABS AND OTHER SINGLE STEM TYPE)

MULTI-STEMMED LOW DECIDUOUS TREES OR LARGE SHRUBS (HAWTHORN, SERVICEBERRY)

NOTE: WHEN PRUNING, PRESERVE CHARACTER AND SHAPE OF TREE. AVOID LEAVING STUBS - REMOVE BRANCH OR TWIG BACK TO THE NEAREST CROTCH
1) PRUNE TO REMOVE DEAD AND BROKEN BRANCHES
2) PRUNE TO REMOVE BRANCHES THAT TOUCH OR ARE TOO CLOSE TO OTHER BRANCHES

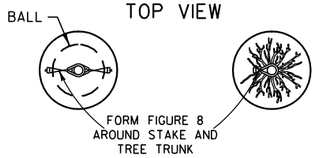


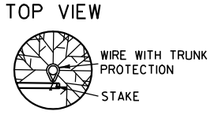
SHRUBS (GRAY DOGWOOD ARROWWOOD VIBURNUM)

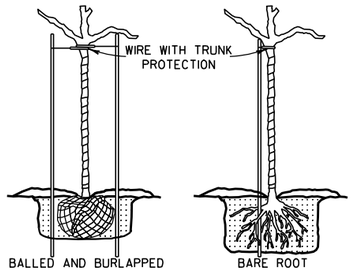
SUMAC

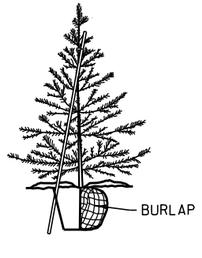
TREE TYPE EVERGREENS (PINE, SPRUCE, FIR) EVERGREENS USUALLY ARE NOT PRUNED

PRUNING



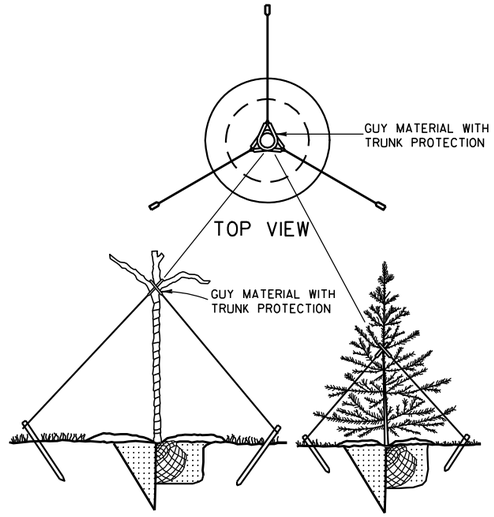






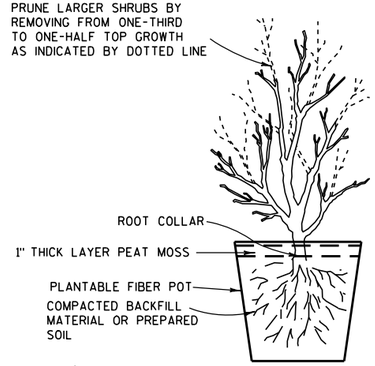
NOTE: BRACING STAKE
1) SHALL BE DRIVEN INTO THE GROUND AS CLOSE TO THE TREE AS POSSIBLE WITHOUT DAMAGING THE BRANCHES.
2) MAY BE DRIVEN AT SUCH AN ANGLE THAT IT DOES NOT PENETRATE THE BALL OR POT.
3) SHALL NOT PROTRUDE ABOVE THE TOP OF THE TREE; AND
4) SHALL HAVE A HOLE NEAR THE TOP TO HOLD THE WIRE IN PLACE.

BRACING



GUYING

PRUNE LARGER SHRUBS BY REMOVING FROM ONE-THIRD TO ONE-HALF TOP GROWTH AS INDICATED BY DOTTED LINE



POTTING

NOTES

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

BRACING, WRAPPING, GUYING, RODENT PROTECTION, FERTILIZER AND MULCH SHALL BE USED ONLY WHEN SPECIFIED ON THE PLANT DATA CHART (PART OF PLAN) OR SPECIAL PROVISIONS.

TREE PLANTING DETAIL

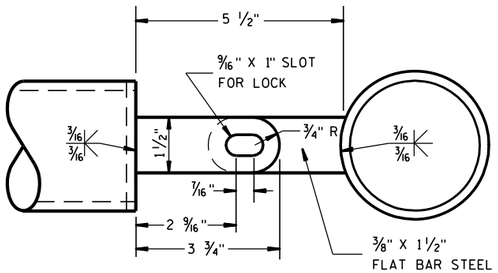
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/11/94 — DATE
/S/ Rory L. Rhinesmith — CHIEF METHODS DEVELOPMENT ENGINEER
FHWA

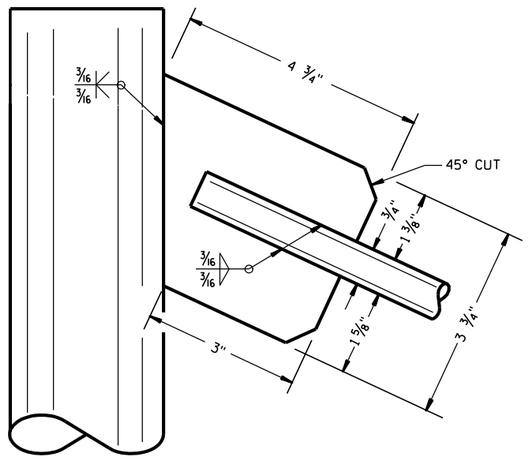
S.D.D. 14 A 2-1

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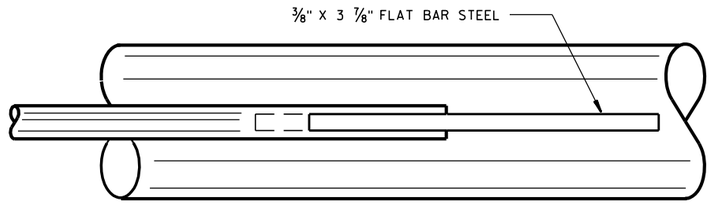
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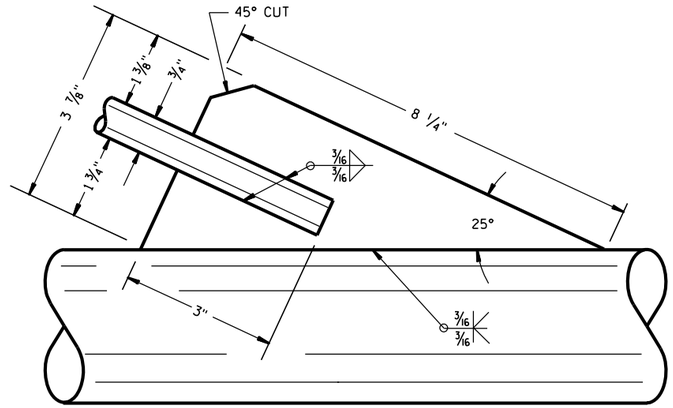
PLAN VIEW
DETAIL A



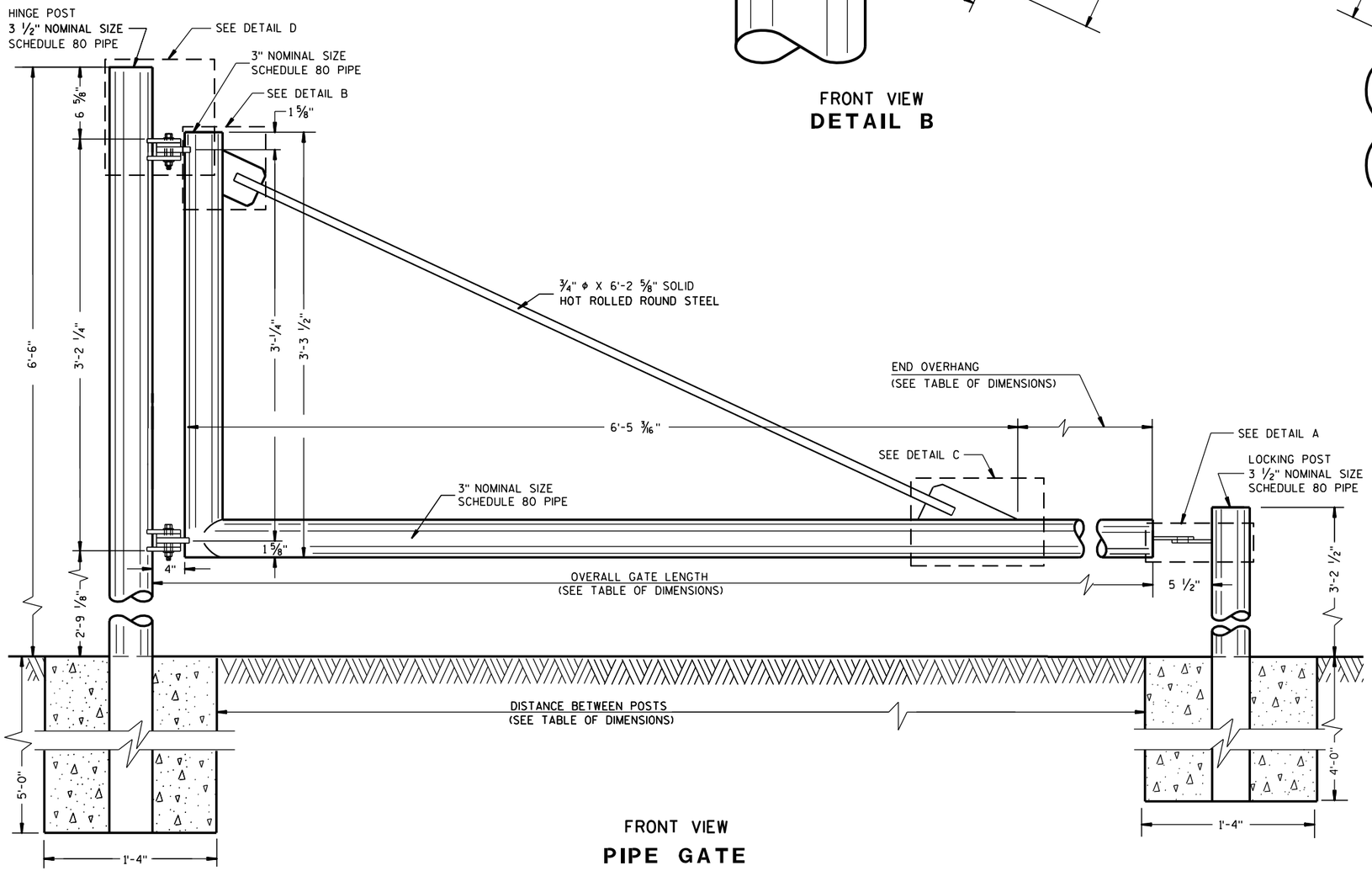
FRONT VIEW
DETAIL B



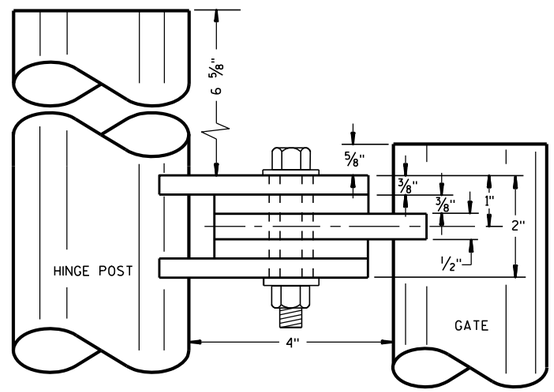
PLAN VIEW



FRONT VIEW
DETAIL C



FRONT VIEW
PIPE GATE



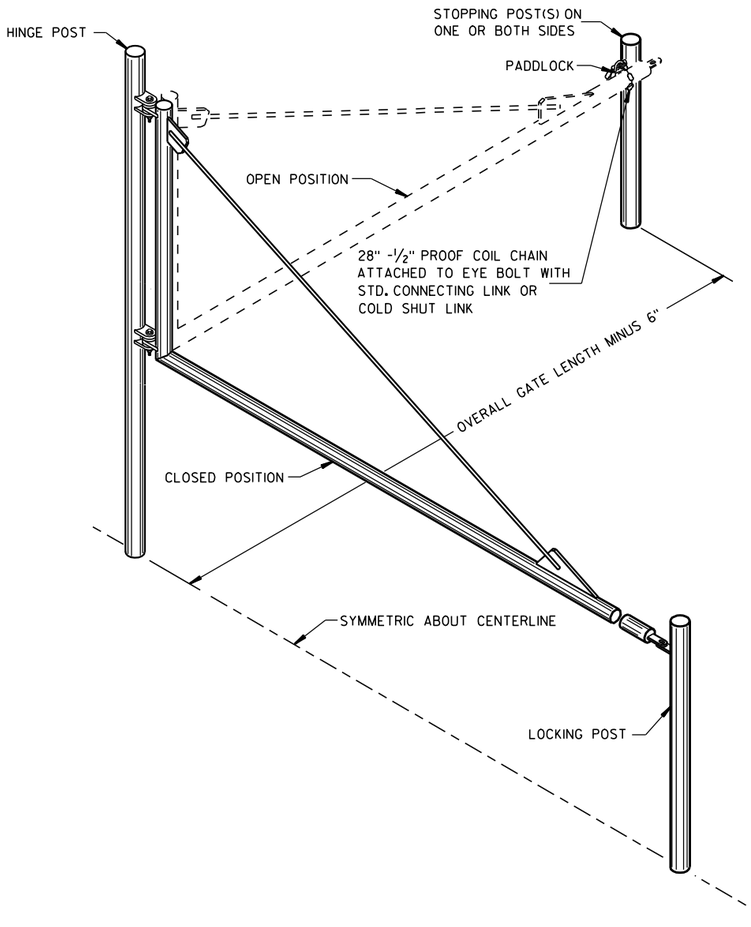
FRONT VIEW
DETAIL D

PIPE GATE DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

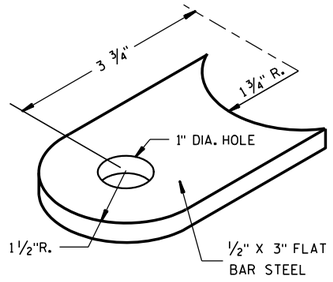
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S.D.D. 15 B 12-1a



ISOMETRIC VIEW

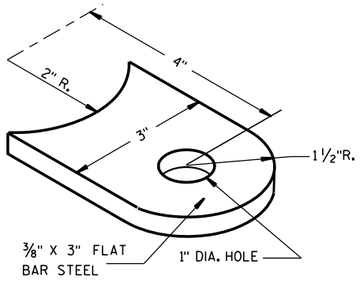
PIPE GATE PARTIAL LAYOUT (ONE SIDE ONLY)



ISOMETRIC VIEW

SWING ARM BRACKET

2 REQUIRED



ISOMETRIC VIEW

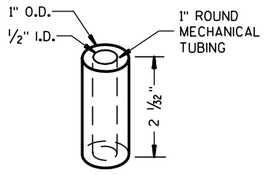
POST BRACKET

4 REQUIRED

ISOMETRIC VIEW

SPACING RING

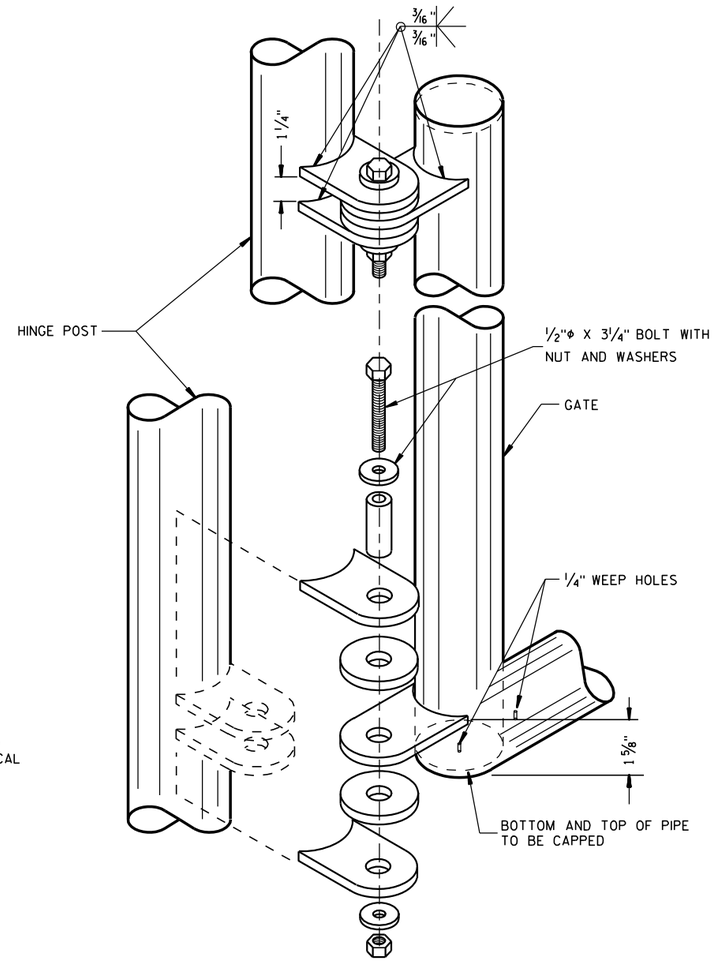
4 REQUIRED



ISOMETRIC VIEW

SLEEVE

2 REQUIRED



ISOMETRIC VIEW

HINGE ASSEMBLY

GENERAL NOTES

ALL PIPE POSTS SHALL HAVE OPEN BOTTOMS.

ALL OTHER EXPOSED ENDS SHALL BE CAPPED AND SEALED TO PREVENT WATER FROM ENTERING.

ALL STEEL BRACKETS SHALL BE ASTM A36.

ALL UNITS SHALL BE SHOP FABRICATED.

BOTH POSTS SHALL BE PLACED IN CONCRETE IN ACCORDANCE WITH THE DETAILED PLANS.

ALL METAL SHALL BE CLEANED BY SANDBLASTING TO A SSPC-10, COMMERCIAL BLAST FINISH.

ALL METAL SHALL BE PAINTED WITH A ZINC RICH PRIMER AND ONE COAT OF EPOXY FINISH PAINT. A SECOND FINISH COAT SHALL BE FIELD APPLIED AFTER INSTALLATION.

GATE LOCK CAN BE MASTER KEYED AND SHALL HAVE THE FOLLOWING MINIMUM DIMENSIONS: SHACKLE DIA. OF ⅜", VERTICAL CLEARANCE OF 1½", HORIZONTAL CLEARANCE OF 1 1/32".

HINGE BOLT THREADS SHALL BE PEINED OR SPOT WELDED IN PLACE TO PREVENT REMOVAL.

HOLE IN HINGE BRACKETS SHALL BE LARGE ENOUGH SO THAT 1" OD PIPE COLLAR JUST SLIDES THROUGH OPENING.

ALL BOLTS, WASHERS AND NUTS SHALL BE UNL ASTM A325.

(TABLE OF DIMENSIONS)

SINGLE GATE

CLEAR WIDTH	END OVERHANG	DISTANCE BETWEEN POSTS	OVERALL GATE LENGTH
10'-0"	3'-5 ¼"	10'-7 ¼"	9'-9 ¾"
12'-0"	5'-5 ¼"	12'-7 ¼"	11'-9 ¾"

IF CLEAR WIDTH GREATER THAN 12'-0" THAN USE DUAL OPENING GATES.

DUAL OPENING GATES

CLEAR WIDTH	END OVERHANG	DISTANCE BETWEEN POSTS	OVERALL GATE LENGTH
14'-0"	3 ¼"	14'-7"	7'-¾"
16'-0"	1'- 3 ¼"	16'-7"	8'-¾"
18'-0"	2'- 3 ¼"	18'-7"	9'-¾"

DESIGN NOTE:

GATE SIZE SHALL BE SPECIFIED AS THE CLEAR WIDTH OF OPENING.

PIPE GATE DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

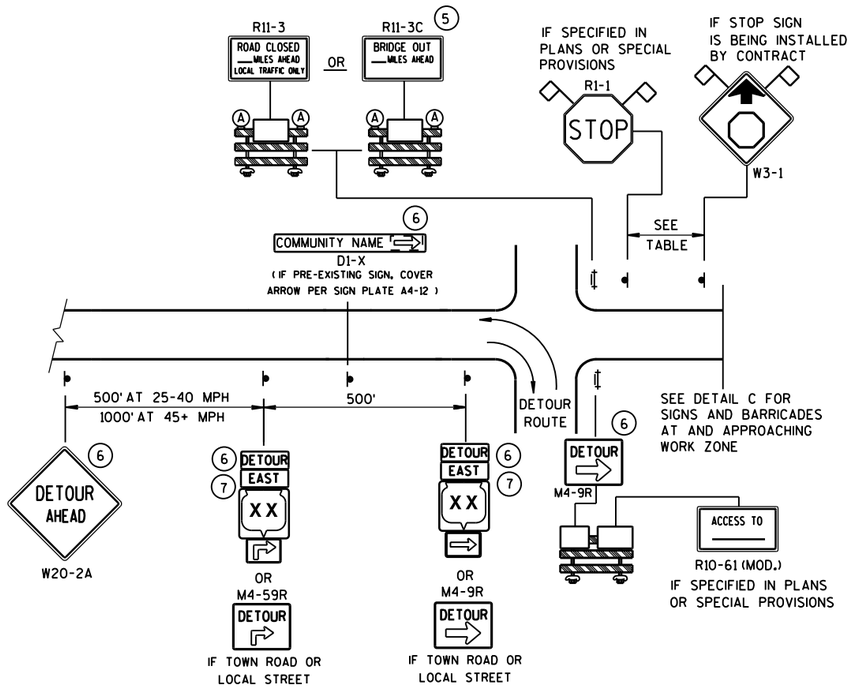
APPROVED
1/5/94 — DATE
/S/ Rory L. Rhinesmith — CHIEF METHODS DEVELOPMENT ENGINEER
FHWA

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S.D.D. 15 B 12-1b

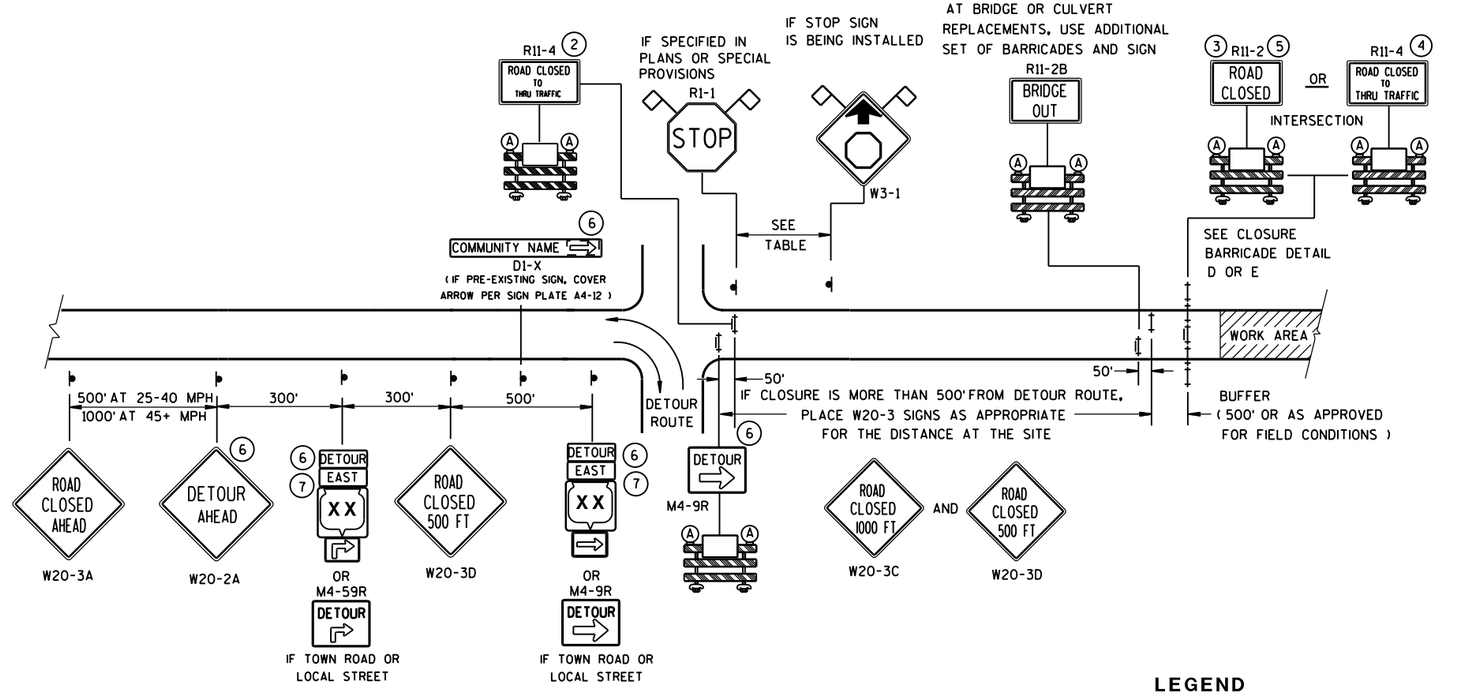
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S.D.D. 15 B 12-1b



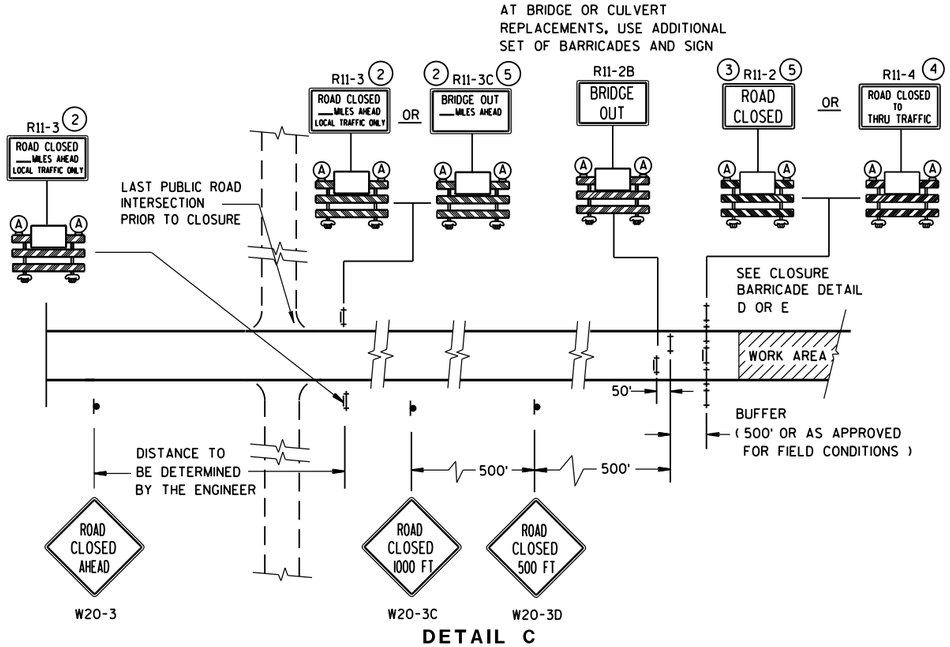
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN 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
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- DETOUR / EAST — M4-8 / M3-X
- XX — M1-4; COUNTY XX — M1-5A; XX — M1-6
- M05-1 OR M06-1
- FLAGS, 16" X 16" MIN., (ORANGE)

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

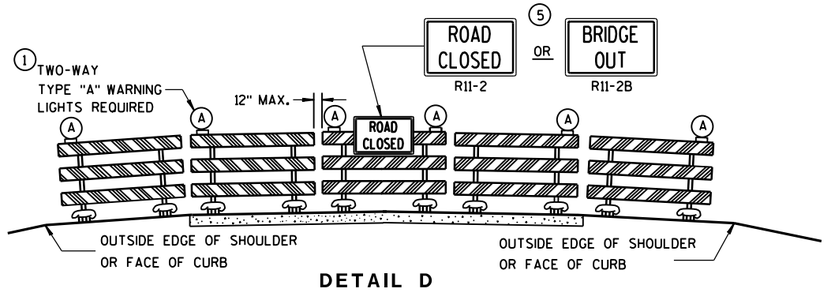
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA

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S.D.D. 15 C 2-6a

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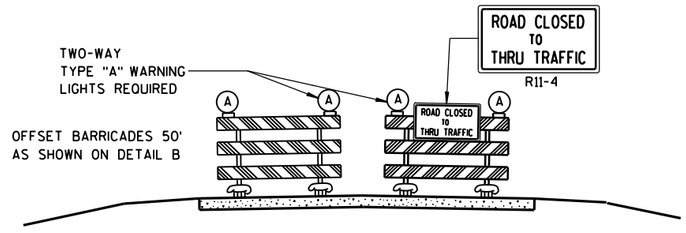
S.D.D. 15 C 2-6a



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 BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE 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, 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". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- 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 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 LANE 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 MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Sept. 2015 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO SAFETY ENGI — FIC

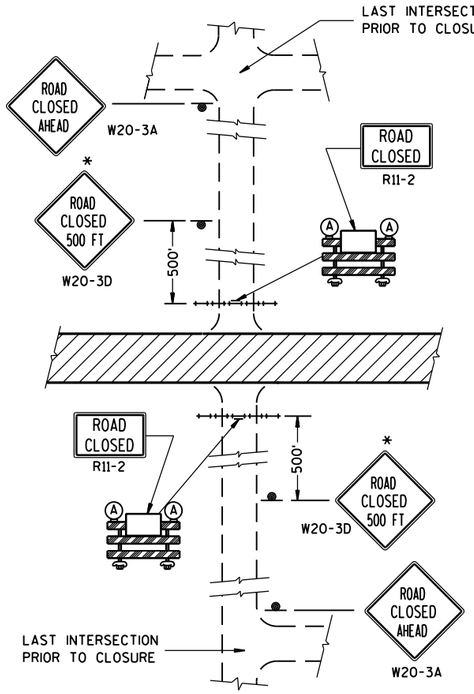
FHWA

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S.D.D. 15 C 2-6b

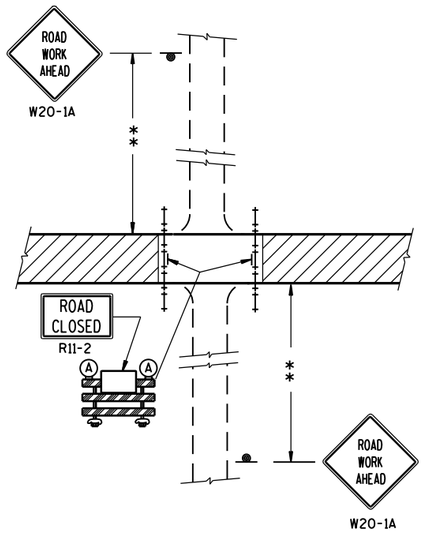
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S.D.D. 15 C 2-6b



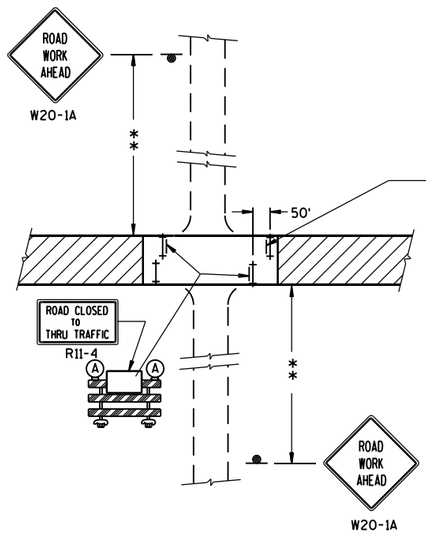
DETAIL 1

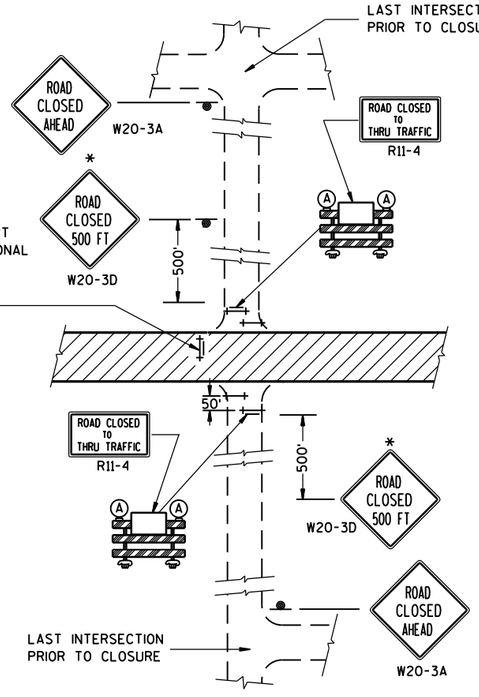
(NO ACCESS TO PROJECT)



DETAIL 2

(PUBLIC CROSS-TRAFFIC MAINTAINED. NO ACCESS TO PROJECT).





DETAIL 3

(PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS).

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 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 RE-ESTABLISHED.

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 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 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

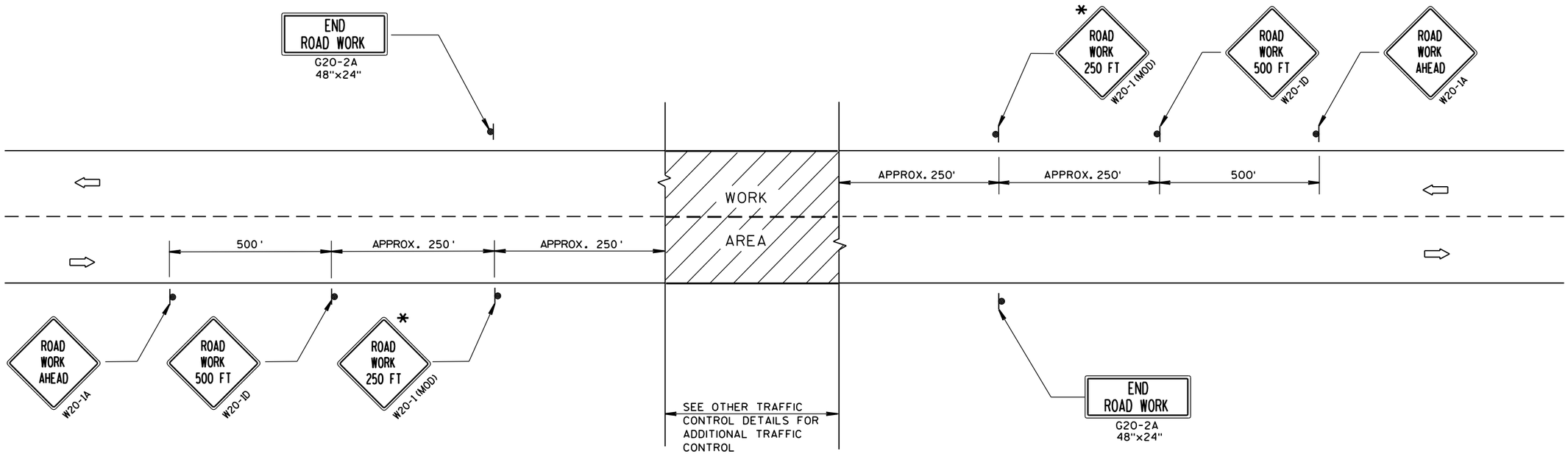
APPROVED
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO... SAFETY ENGI... — FHWA

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S.D.D. 15 C 3-3

6

S.D.D. 15 C 3-3



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

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

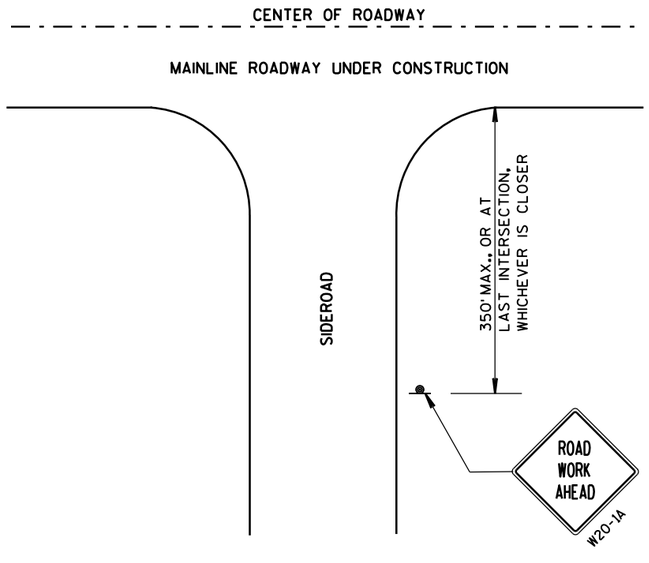
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS.

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

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

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE SAFETY ENGINEER
FHWA

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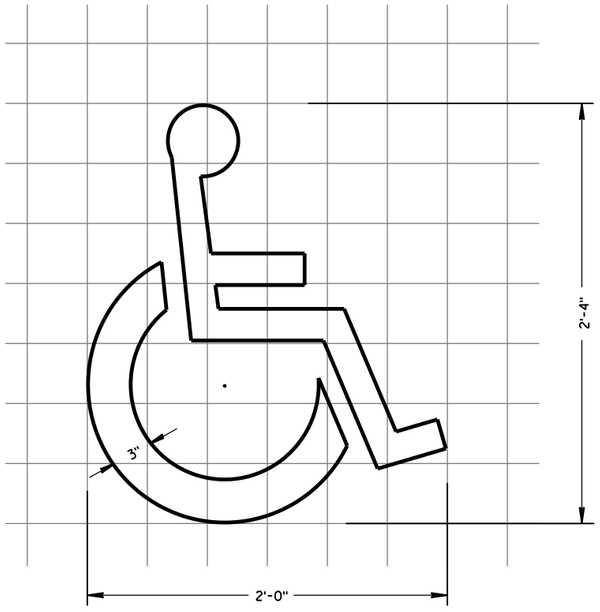
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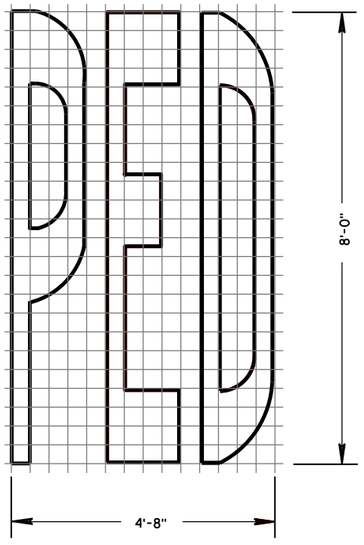
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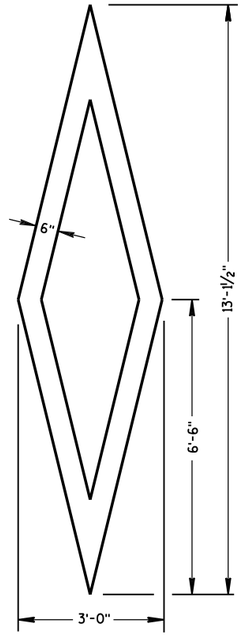
GENERAL NOTES

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.



HANDICAP SYMBOL





PREFERENTIAL LANE SYMBOL

6

6

S.D.D. 15 C 7-14a

S.D.D. 15 C 7-14a

PAVEMENT MARKING SYMBOLS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

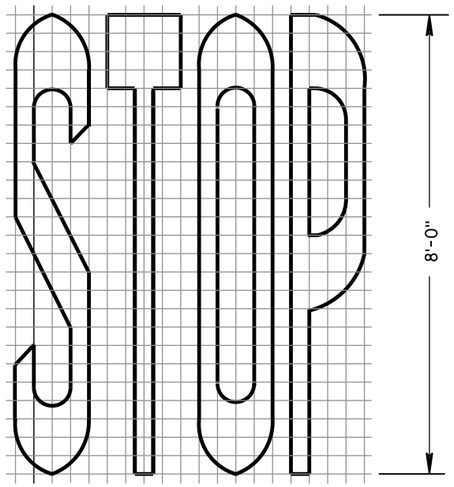
June 2017 — DATE

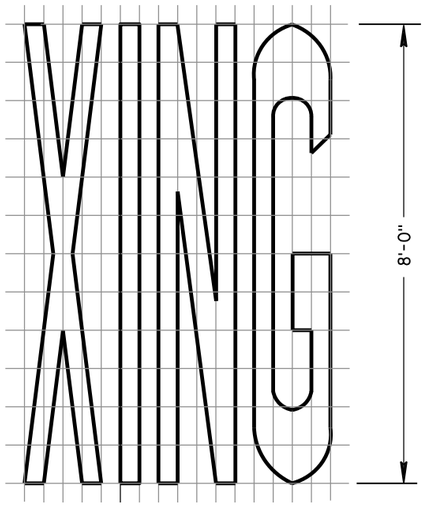
/S/ Matthew R. Rauch — STATE SIGNING AND MARK EER

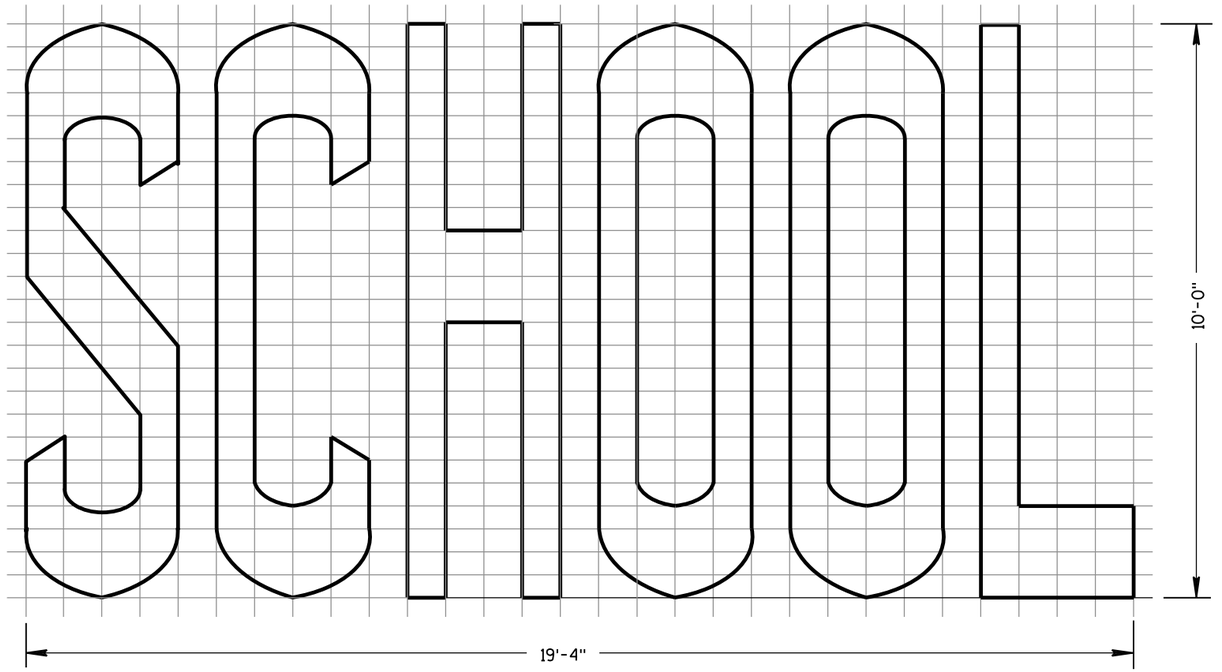
FHWA

GENERAL NOTES

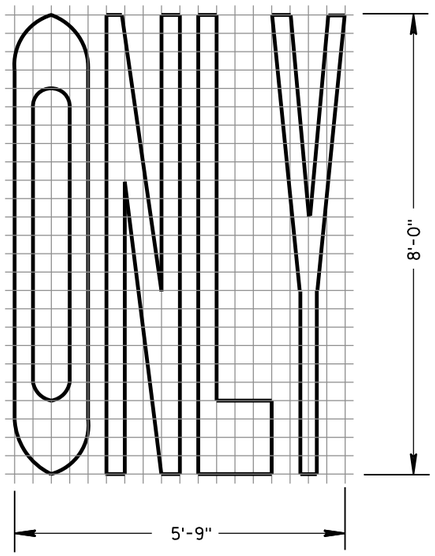
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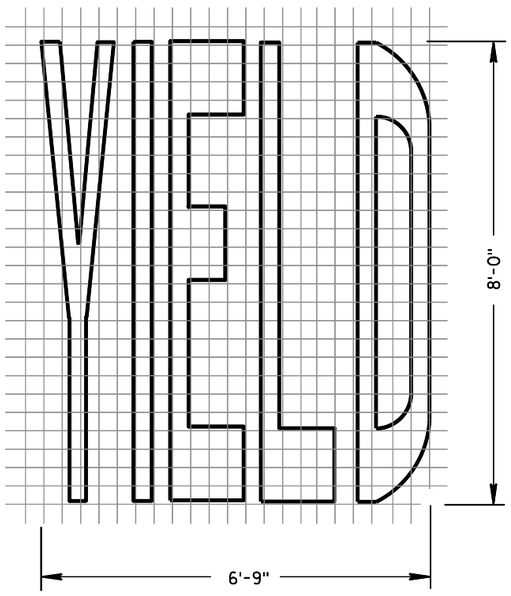


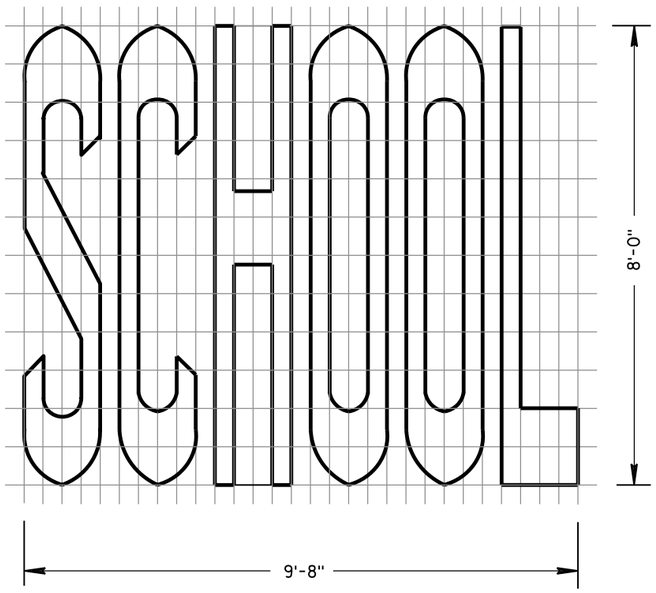




TWO-LANE







SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MARK
EER
FHWA

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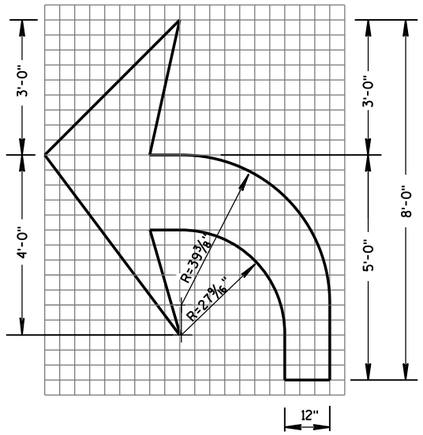
S.D.D. 15 C 7-14b

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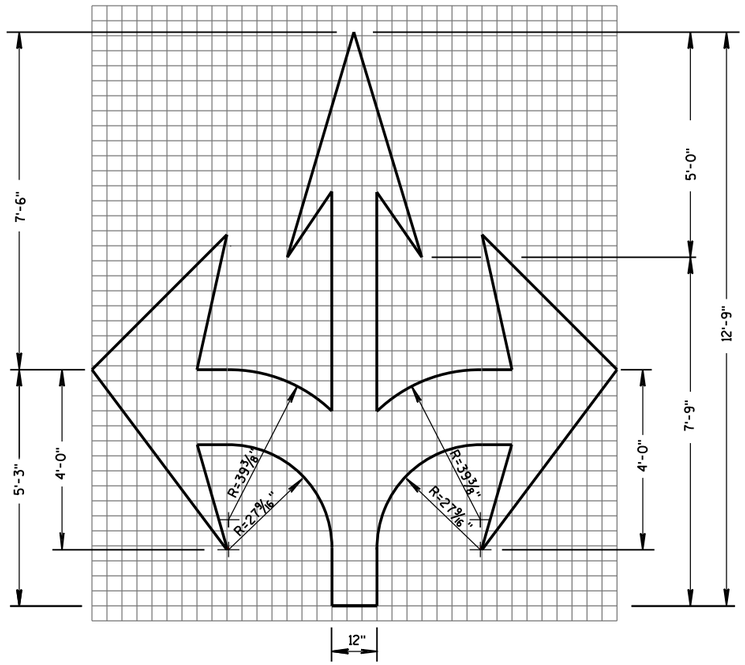
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GENERAL NOTES

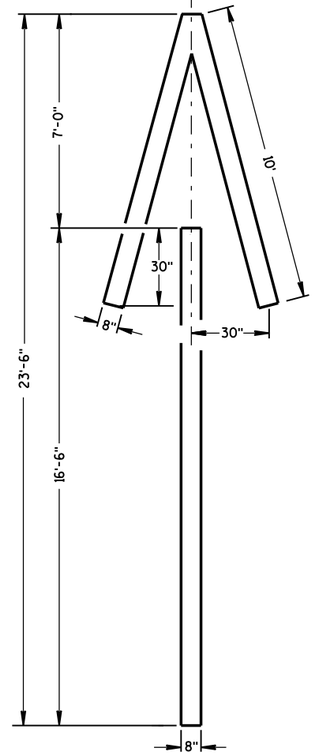
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



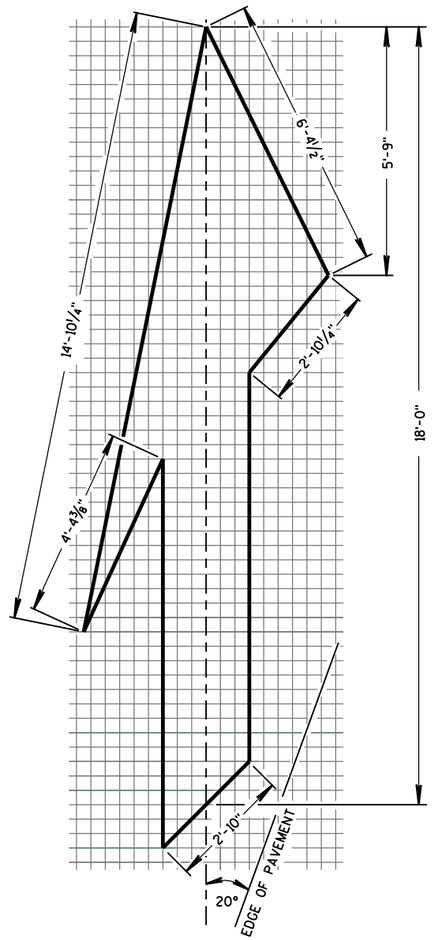
TYPE 2



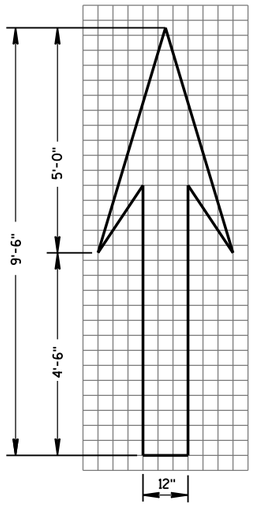
TYPE 6



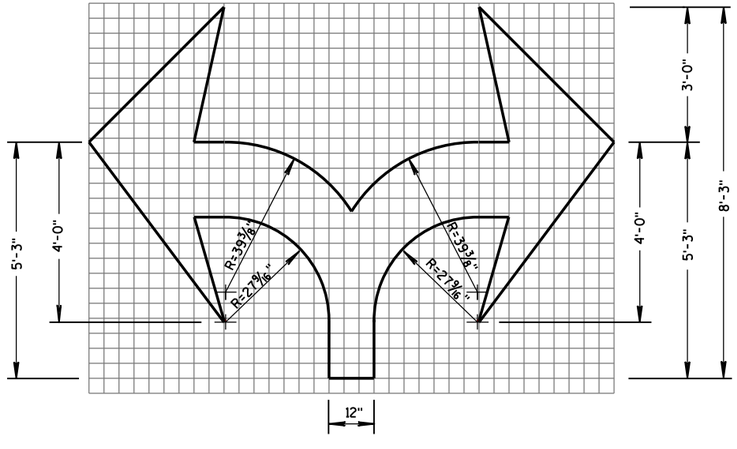
TYPE 4



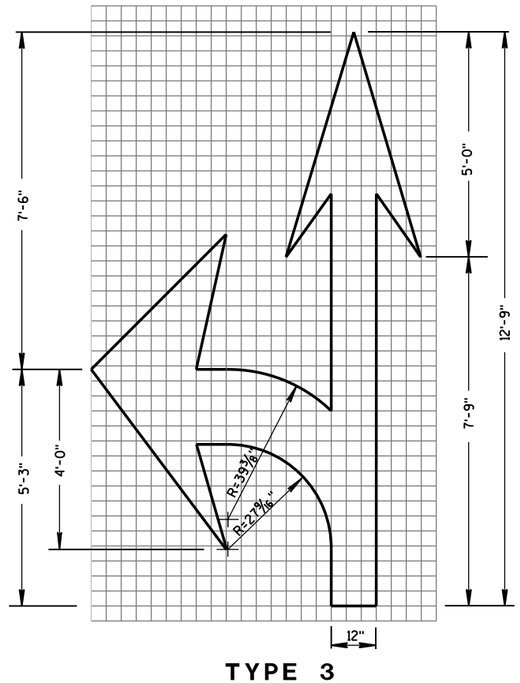
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

PAVEMENT MARKING ARROWS

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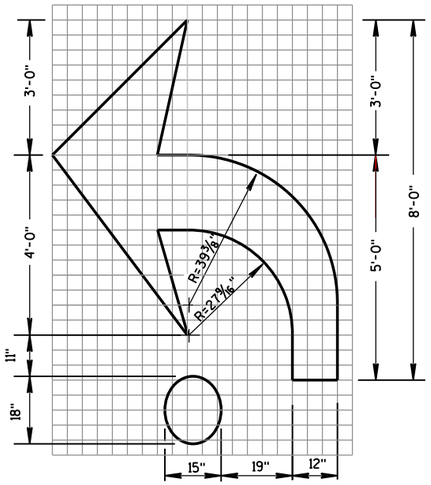
S.D.D. 15 C 7-14c

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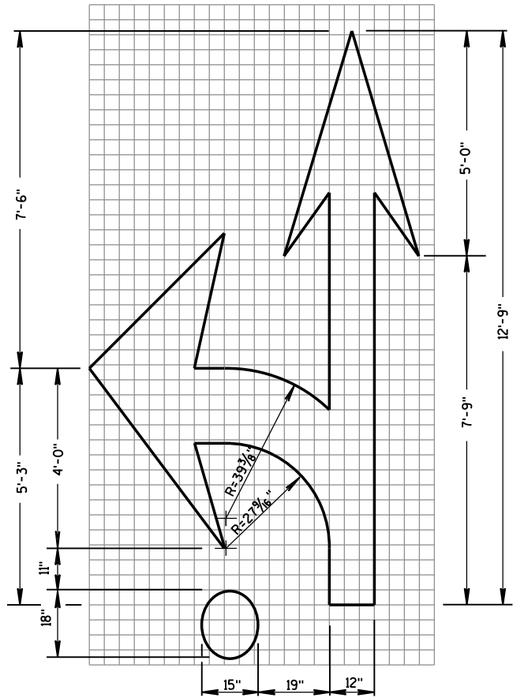
S.D.D. 15 C 7-14c

GENERAL NOTES

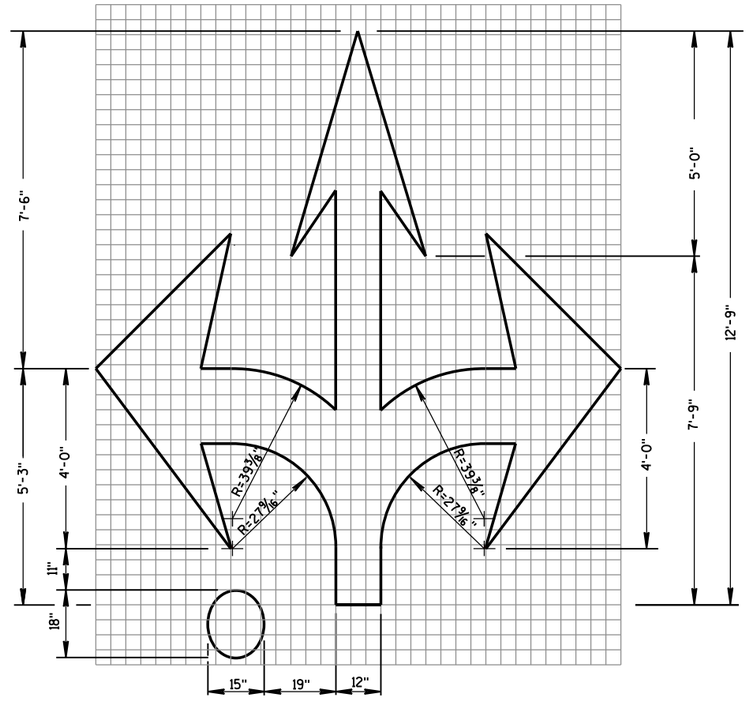
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



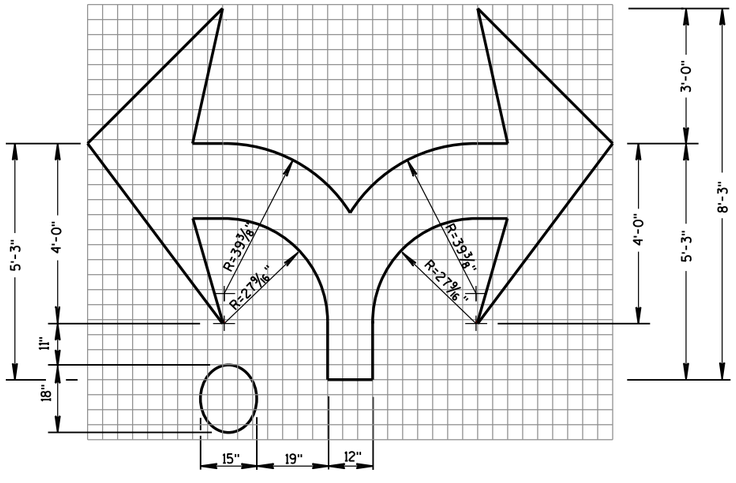
TYPE 2R



TYPE 3R



TYPE 6R



TYPE 7R

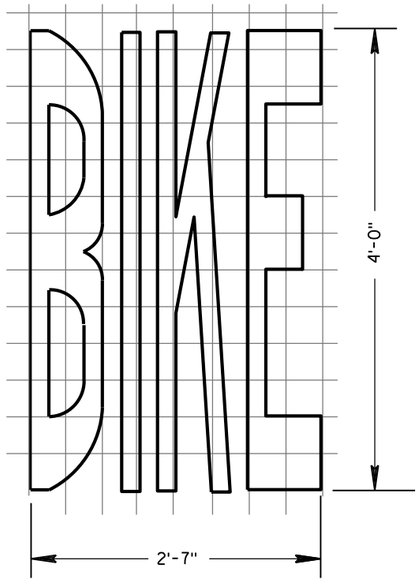
ROUNDABOUT ARROWS

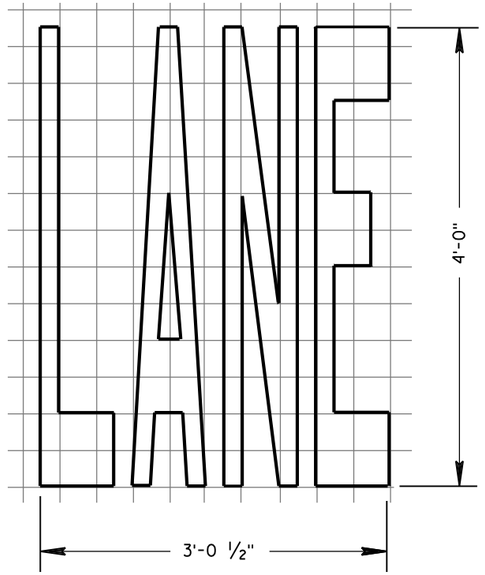
STATE OF WISCONSIN
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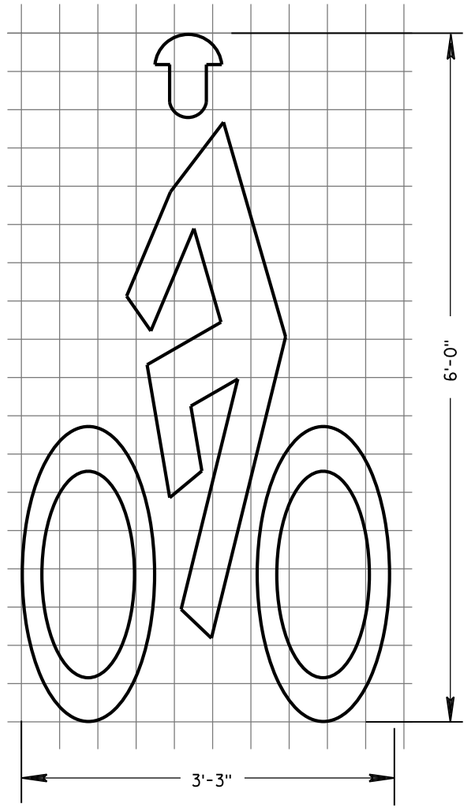
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S.D.D. 15 C 7-14d

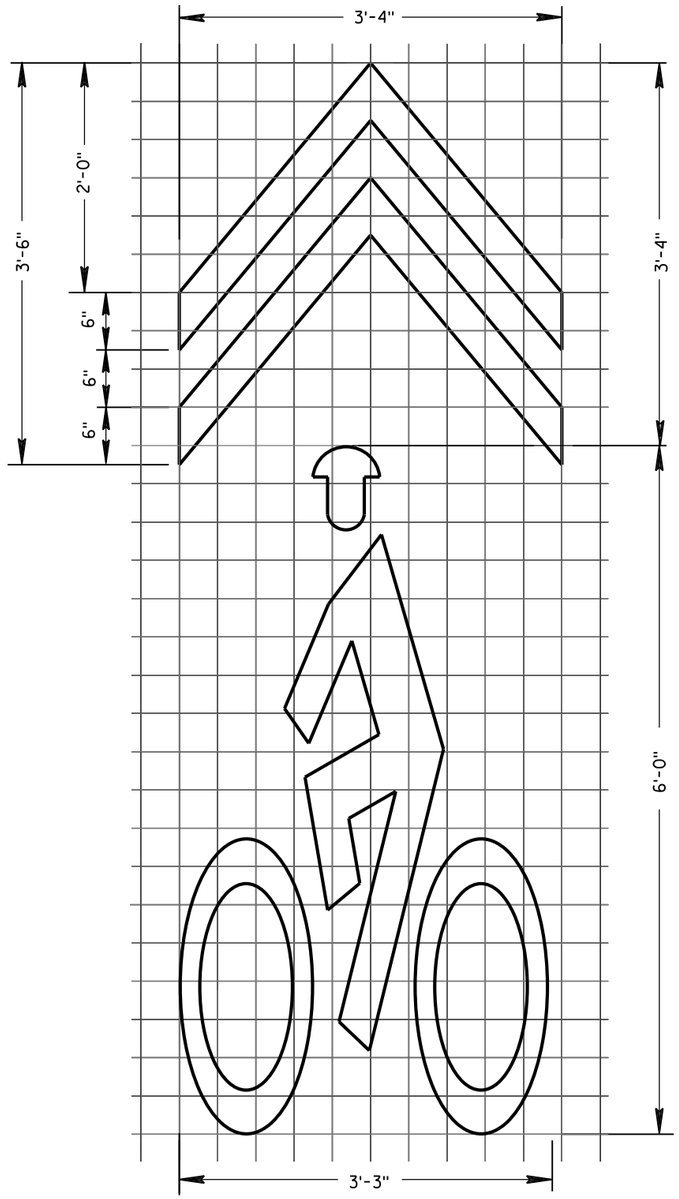




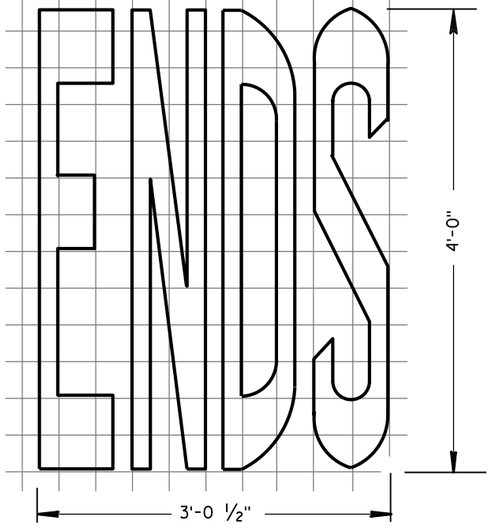
BIKE LANE WORDS



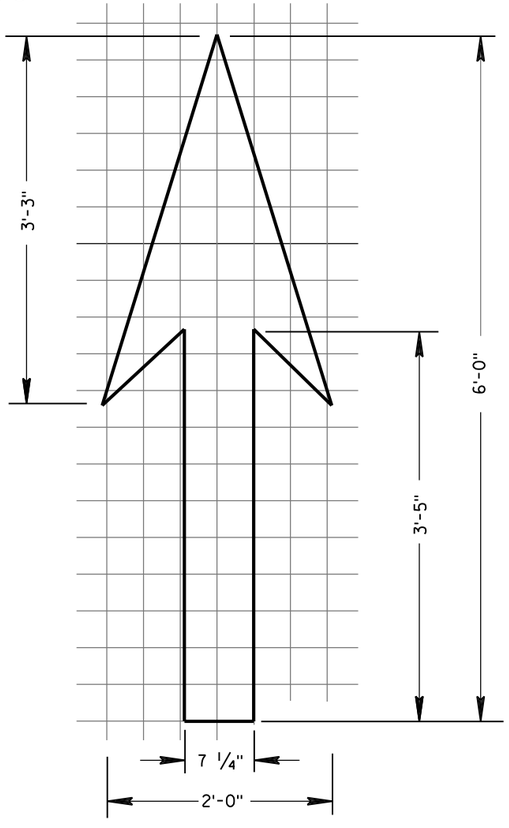
BIKE LANE SYMBOL



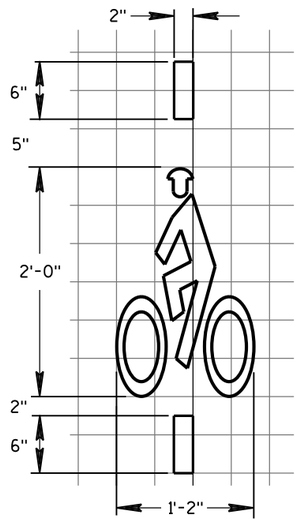
BIKE SYMBOL FOR SHARED LANE



BIKE LANE WORDS



BIKE LANE ARROW



BICYCLE DETECTOR PAVEMENT MARKING

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 FOR BIKE LANES

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DEPARTMENT OF TRANSPORTATION

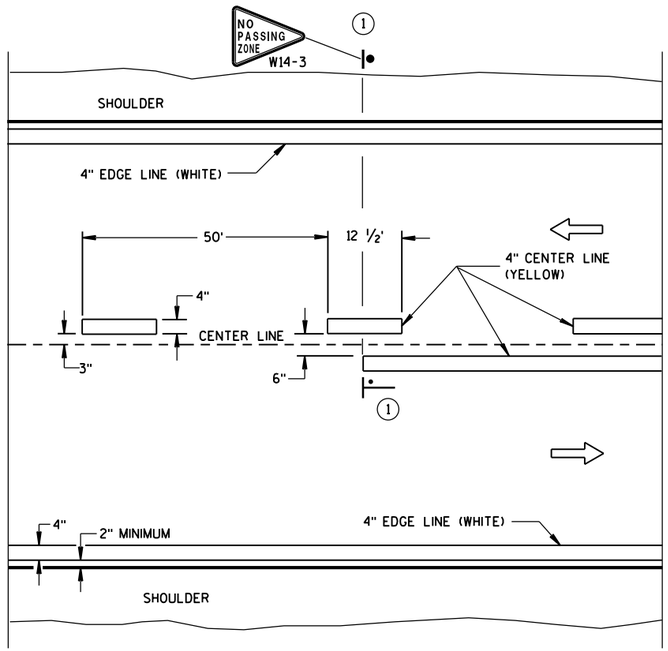
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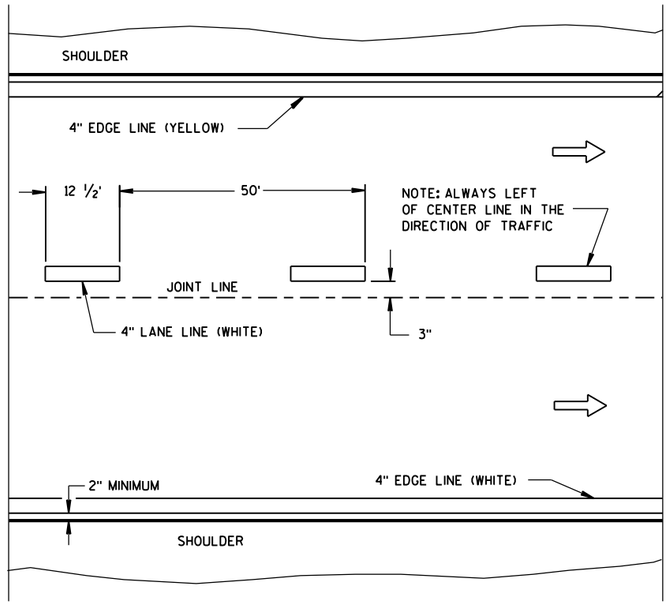
S.D.D. 15 C 7-14e

6

S.D.D. 15 C 7-14e



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.

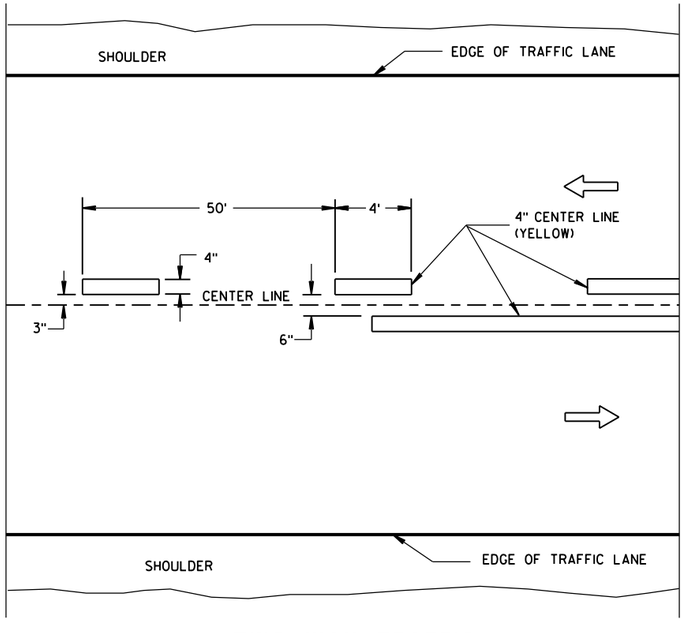
NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

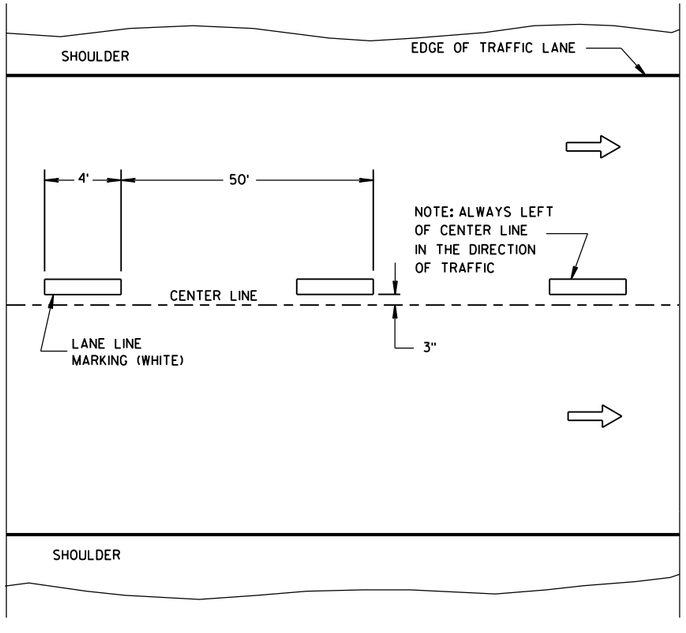
LEGEND

"T" MARKING

POST MOUNTED SIGN



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

LONGITUDINAL MARKING (MAINLINE)

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DEPARTMENT OF TRANSPORTATION

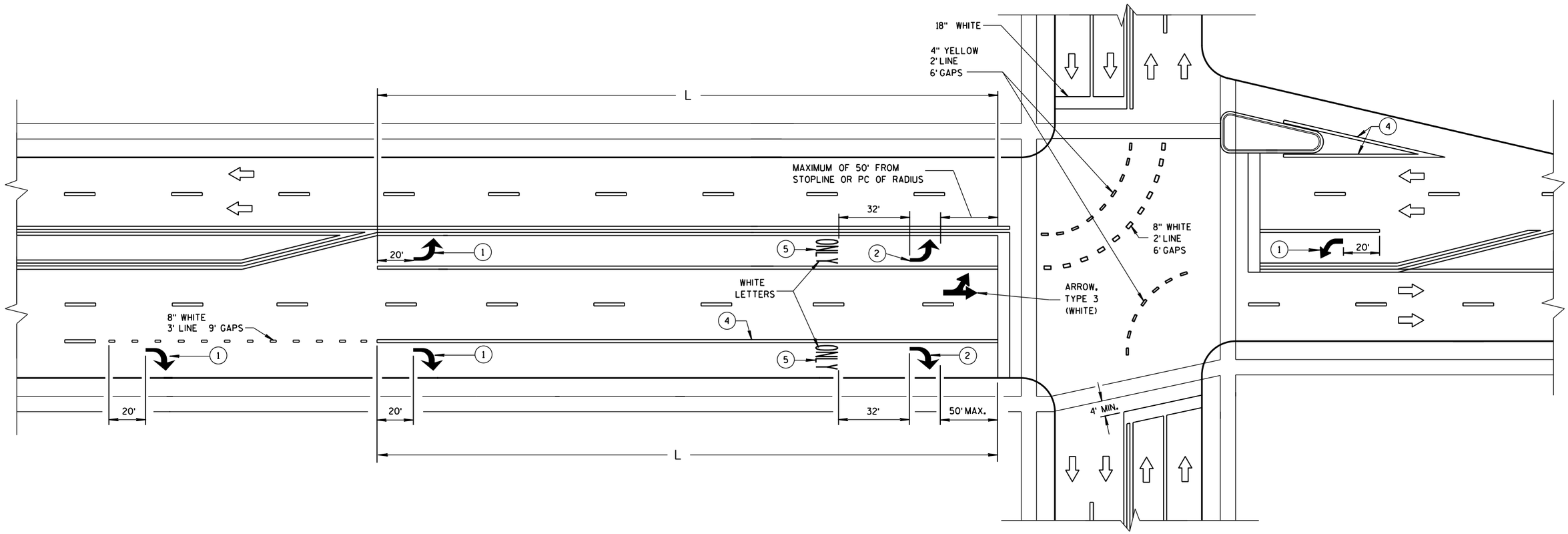
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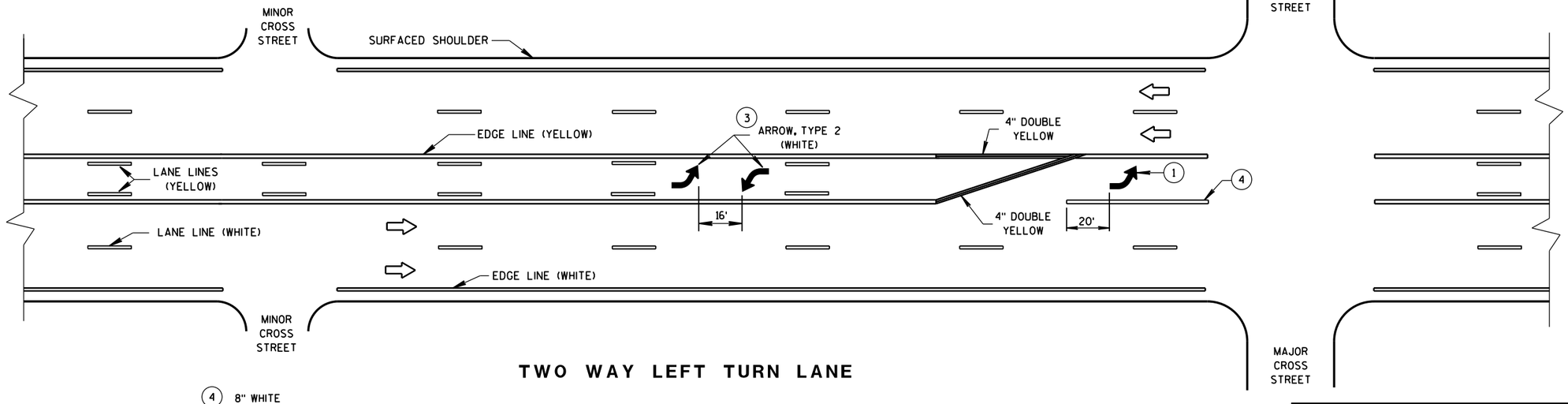
6

S.D.D. 15 C 8-18a

6

S.D.D. 15 C 8-18a





TWO WAY LEFT TURN LANE

GENERAL NOTES

(1) REQUIRED ARROW, TYPE 2 (WHITE).

(2) REQUIRED ARROW, TYPE 2 (WHITE) WHEN L IS GREATER THAN 78 FEET AND LESS THAN OR EQUAL TO 166 FEET.

(3) A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.

(4) 8" WHITE

(5) REQUIRED WORD ONLY WHEN L IS GREATER THAN 166 FEET.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL

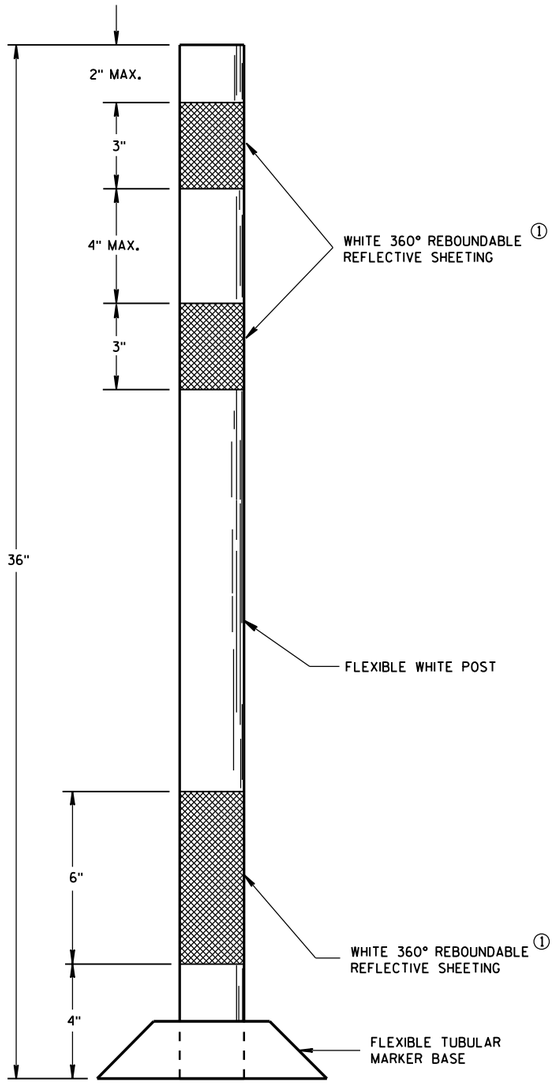
L = LENGTH OF TURN BAY

PAVEMENT MARKING (TURN LANES)

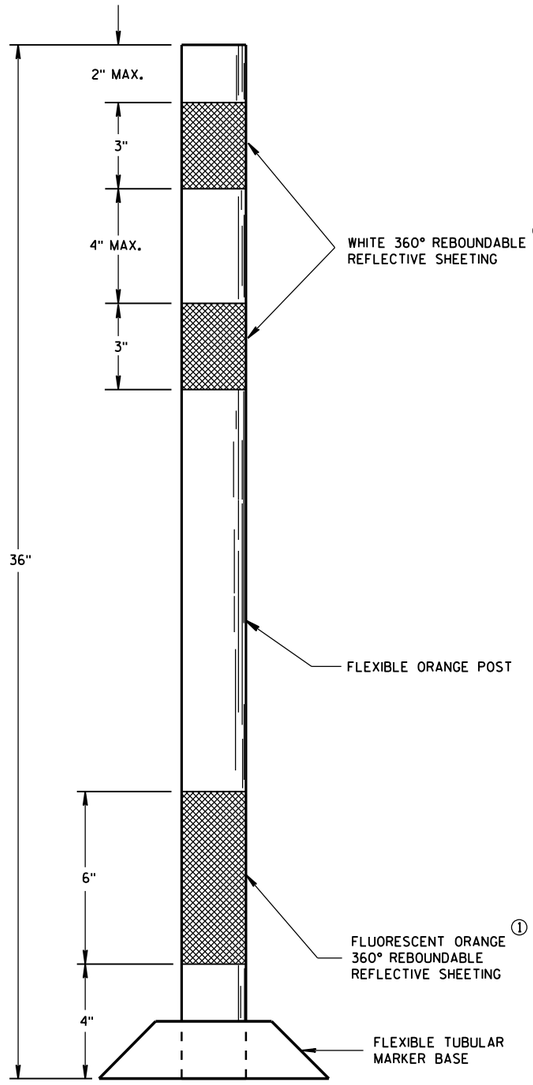
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 15 C 8-18b



FLEXIBLE
TUBULAR MARKER POST
PERMANENT CROSSOVER



FLEXIBLE
TUBULAR MARKER POST
WORK ZONE

GENERAL NOTES

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

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

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

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

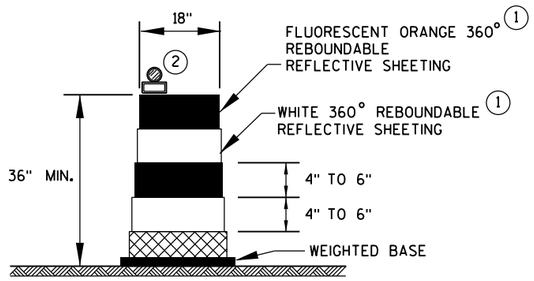
CHANNELIZING DEVICES
FLEXIBLE TUBULAR MARKER POST

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

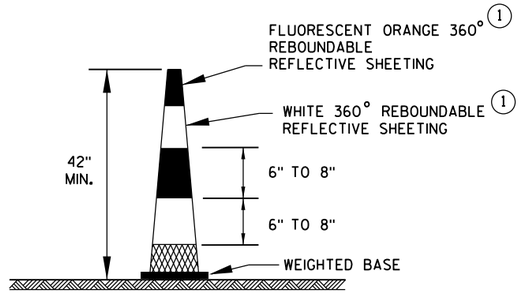
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S.D.D. 15 C 11-7a



DRUM

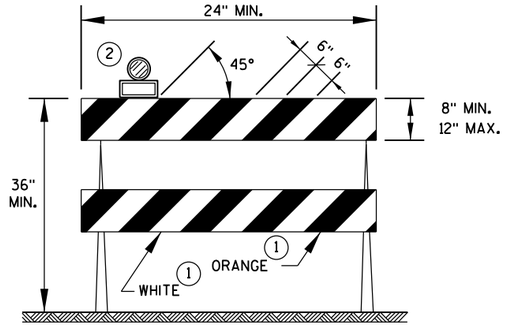


42" CONE

DO NOT USE IN TAPERS
1/2 SPACING OF DRUMS

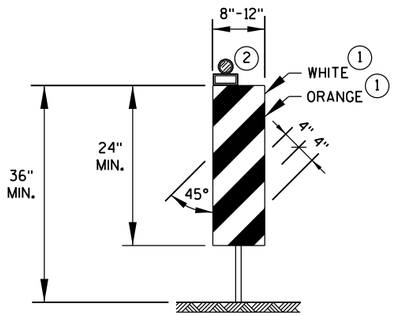
GENERAL NOTES

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.



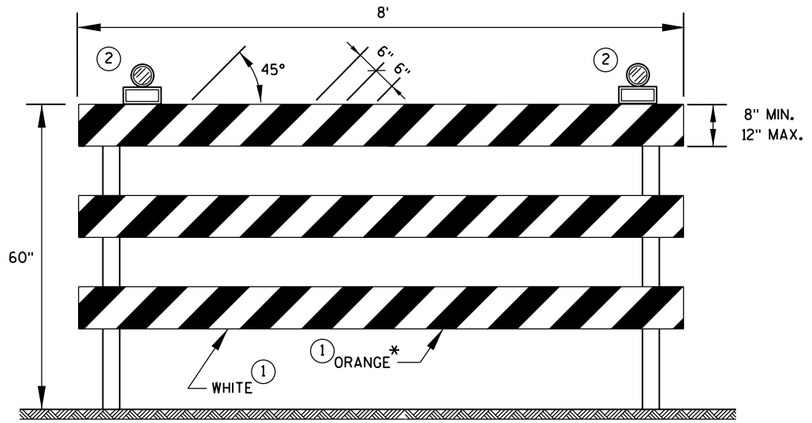
TYPE 2 BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE 3 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

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S.D.D. 15 C 11-7b

LEGEND

- SIGN ON PORTABLE OR PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

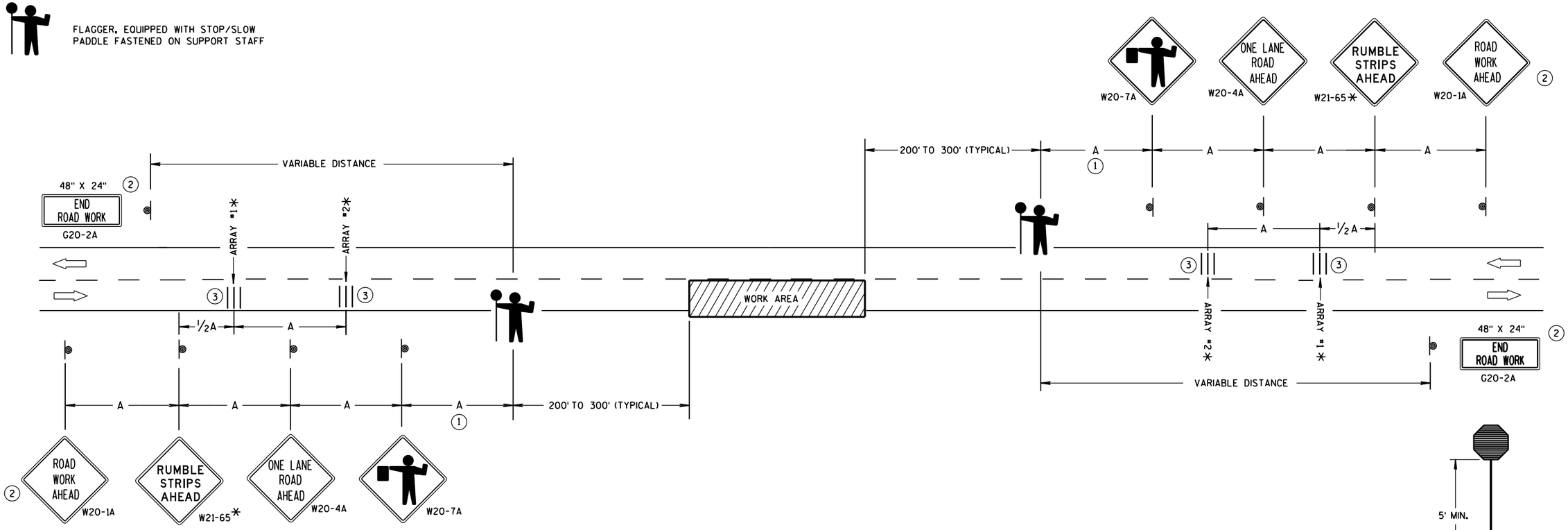
SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

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

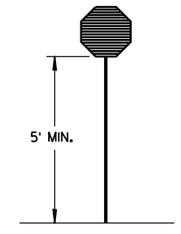


W03-4

USE OF THE "BE PREPARED TO STOP" 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



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.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES (AND THE 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.

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

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.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

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

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 RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

* UTILIZE TEMPORARY RUMBLE STRIPS WHEN FLAGGING OPERATION IS ANTICIPATED TO BE STATIONARY IN EXCESS OF TWO HOURS.

(1) FOR A MOVING WORK OPERATION, SIGNING AND TEMPORARY RUMBLE STRIPS (IF USED) SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3,500 FOOT 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.

(3) EACH TEMPORARY RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

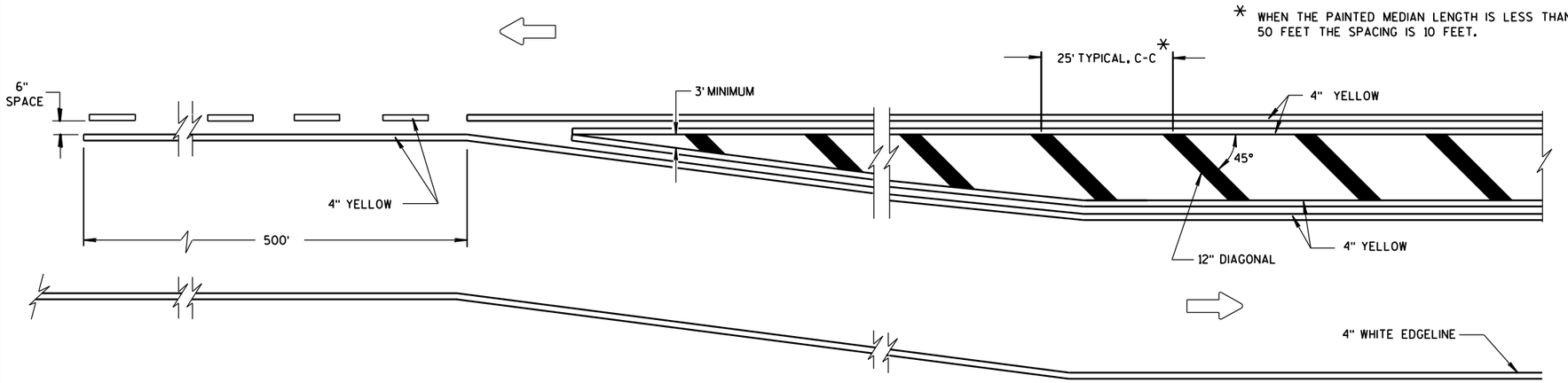
TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

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WORK ZONE ENG
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S.D.D. 15 C 12-6

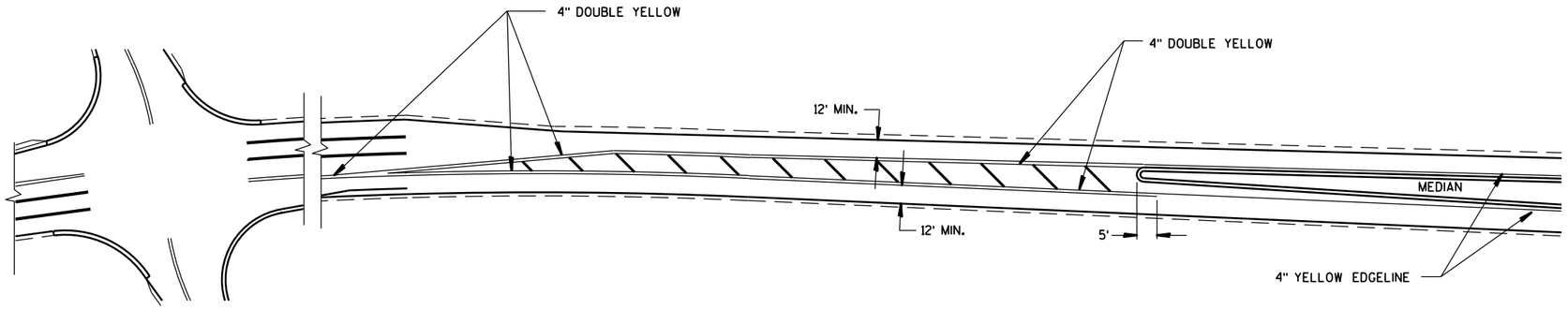


MEDIAN ISLAND DETAIL

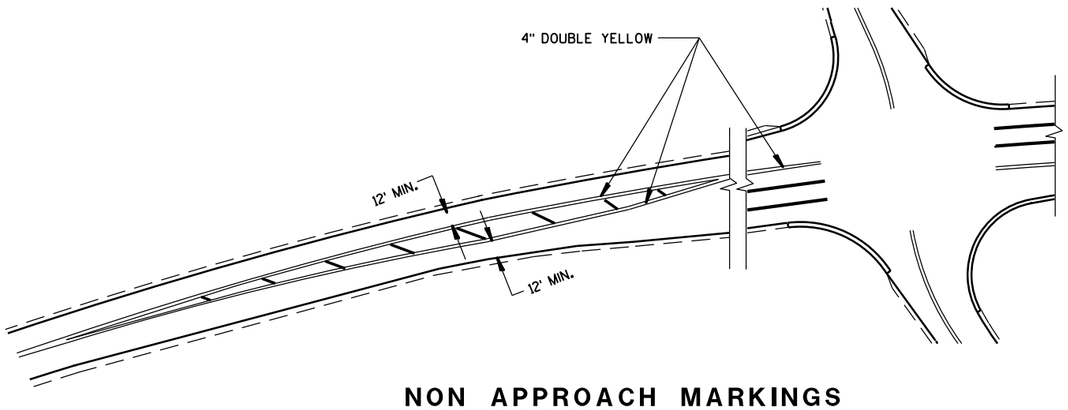
GENERAL NOTE

DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT WIDEST POINT.

DIRECTION OF TRAVEL



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON APPROACH MARKINGS

MEDIAN ISLAND MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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/S/ Matthew Rauch
STATE SIGNING AND MARK[illegible]ER
FHWA

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S.D.D. 15 C 18-4

6

S.D.D. 15 C 18-4

GENERAL NOTES

SIGNING AND MARKING IS SHOWN AS TYPICAL PLACEMENT. FIELD CONDITIONS MAY DICTATE CHANGES IN SIGNING AND MARKING PLACEMENT.

A DISTANCE DEPENDENT ON SPEED (SEE TABLE)

(1) USED ONLY WHEN APPROVED BY REGION TRAFFIC ENGINEER.

SYMBOLS

* SIGNS MAY BE OMITTED IF SPACE DOES NOT PERMIT

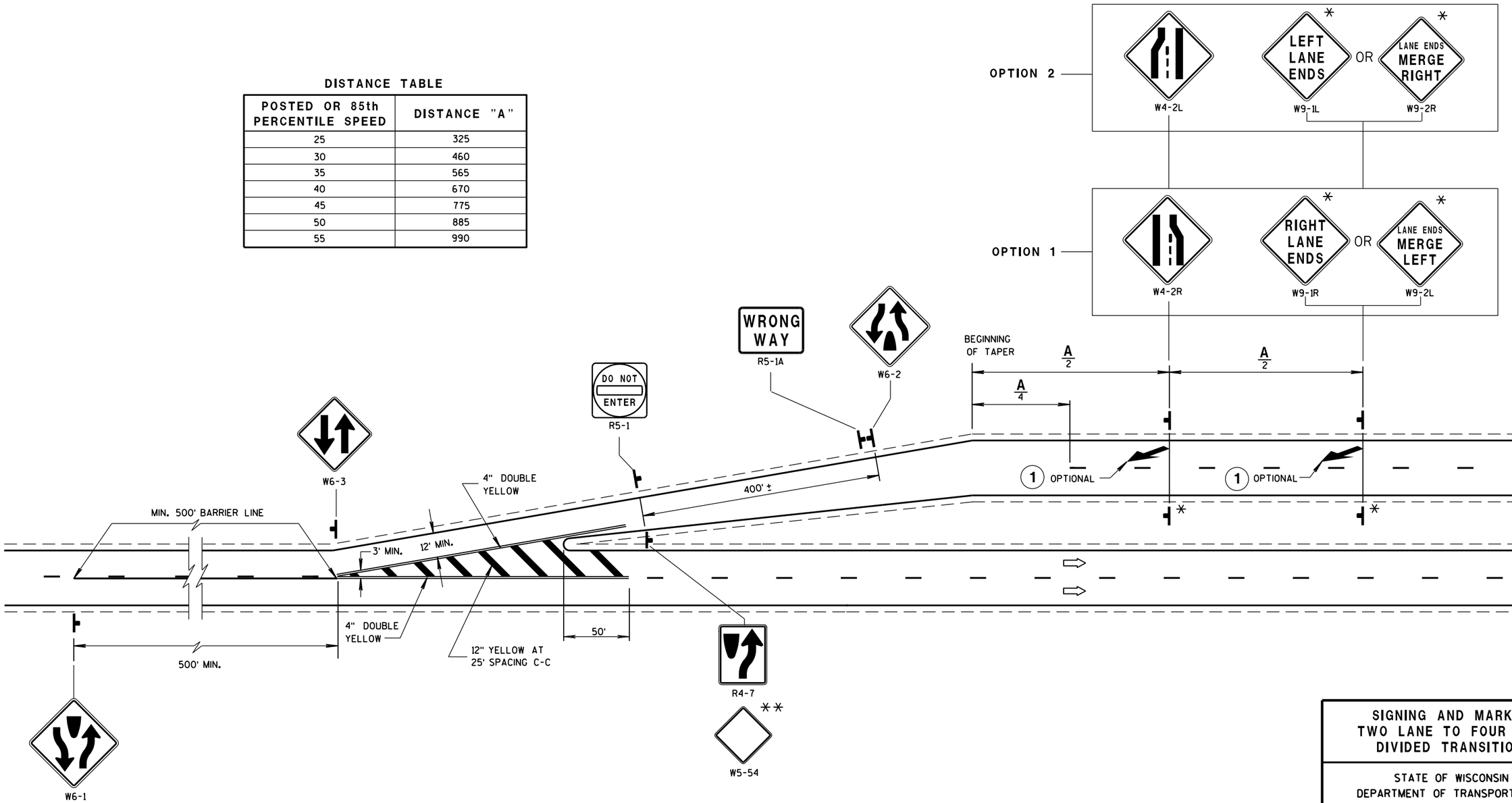
** IF POSTED SPEED 45 MPH OR GREATER, PLACE W5-54 SIGN UNDER R4-7 SIGN. MOUNT W5-54 SIGN AT 4' MOUNTING HEIGHT (TOP OF ROADWAY TO BOTTOM OF SIGN)

POST MOUNTED SIGN

DIRECTION OF TRAFFIC FLOW

DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
25	325
30	460
35	565
40	670
45	775
50	885
55	990



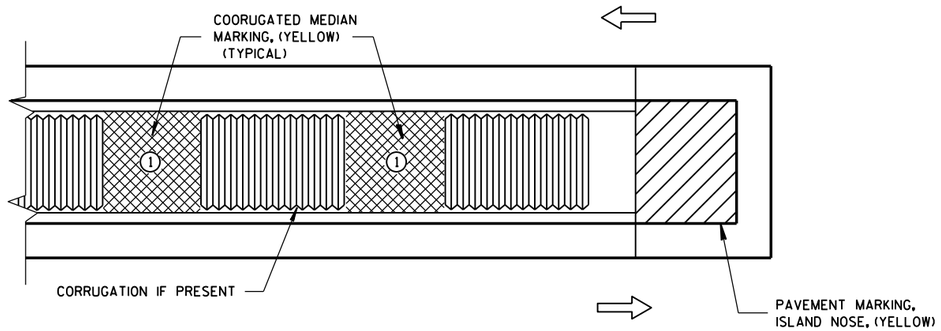
SIGNING AND MARKING
TWO LANE TO FOUR LANE
DIVIDED TRANSITIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

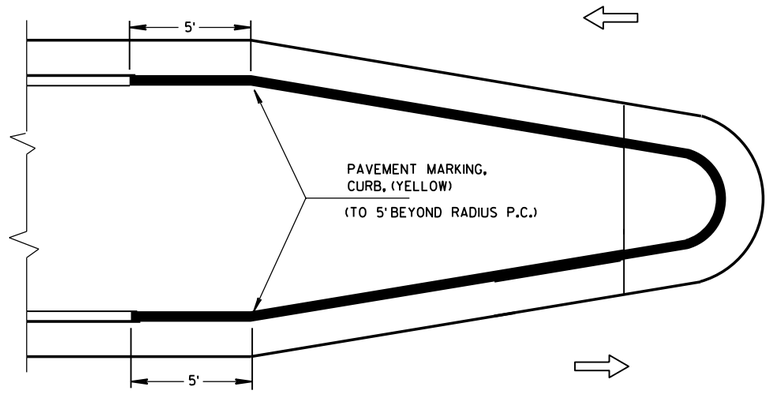
APPROVED
June 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MARKING ENGINEER
FHWA

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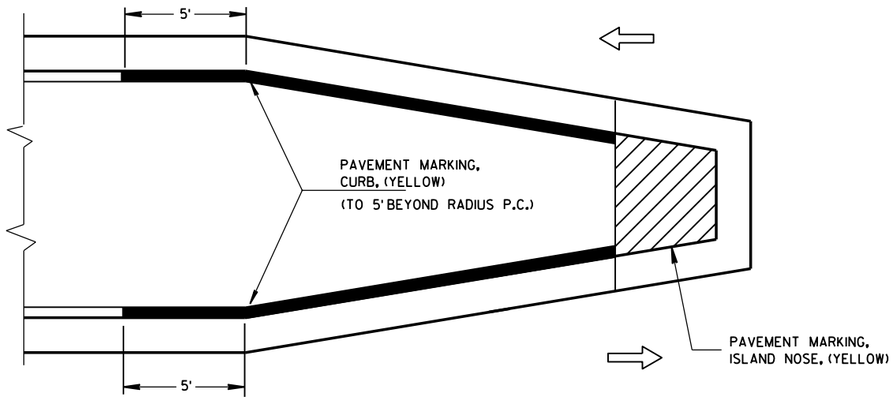
S.D.D. 15 C 21-8



MEDIAN ISLAND WITH SQUARE BLUNT NOSE



MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

GENERAL NOTES

(1) WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.

ISLAND NOSE MARKING

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL

PAVEMENT MARKING
(ISLANDS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

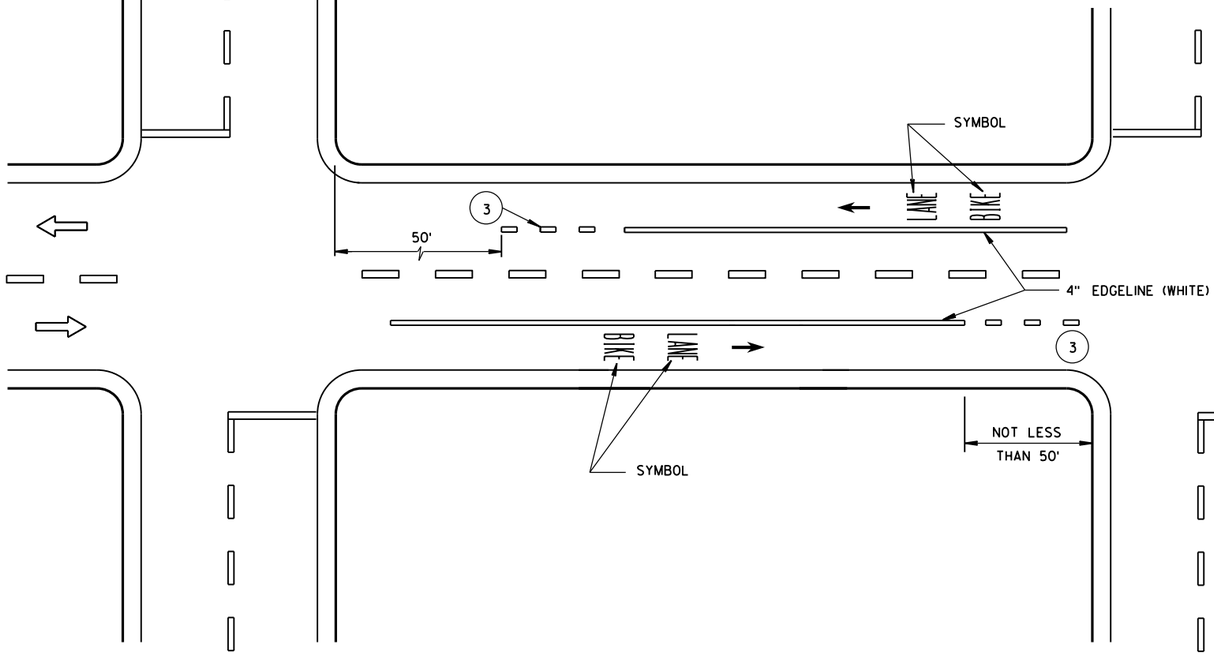
APPROVED
June 2017
DATE
/S/ Matthew Rauch
STATE SIGNING AND MARK 232 EER
FHWA

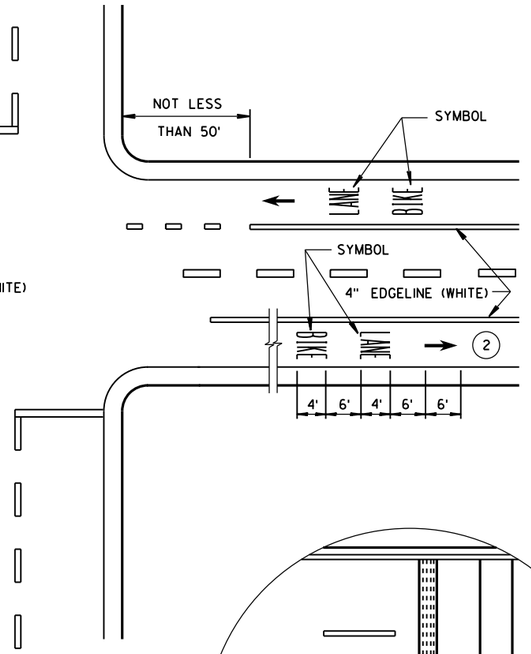
6

S.D.D. 15 C 27-2b

6

S.D.D. 15 C 27-2b



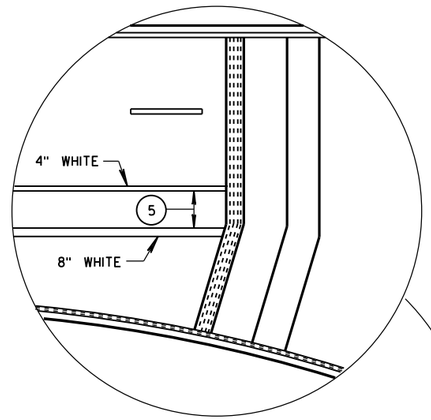


DESIGNATED BICYCLE LANE
NO PARKING

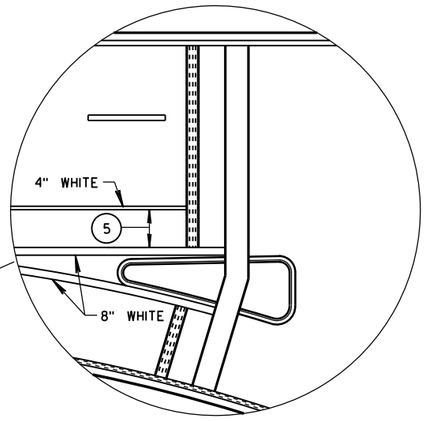
GENERAL NOTES

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 FOR CONCRETE PAVEMENT IS 5 FEET WIDE. BIKE ACCOMODATION FOR ASPHALT PAVEMENT IS A MINIMUM OF 4 FEET. 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.

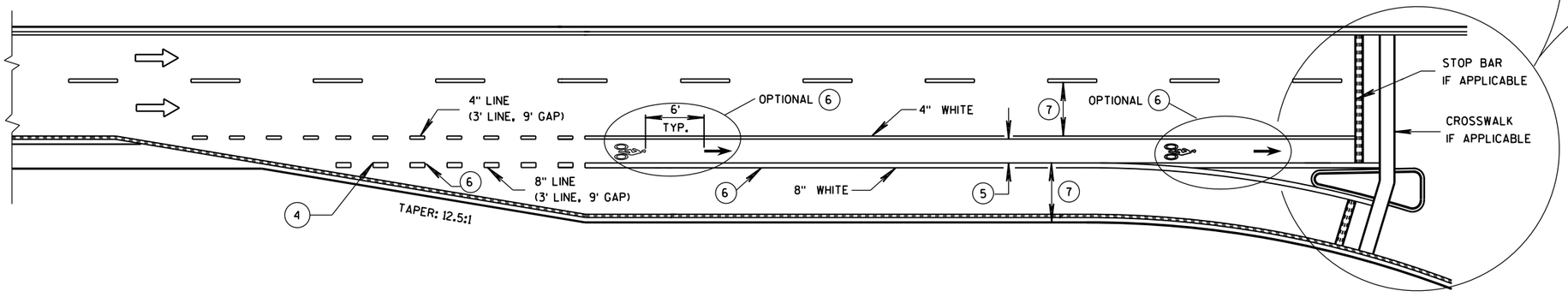
⇨ DIRECTION OF TRAVEL



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 12-2016 DATE	/S/ Matthew R. Rauch STATE SIGNING AND MAR NEER
FHWA	

6

S.D.D. 15 C 29-5a

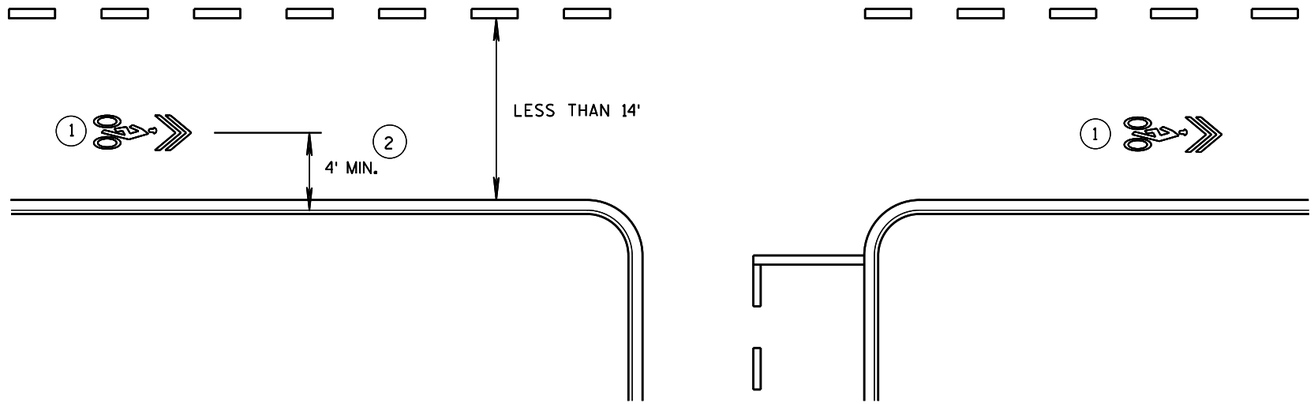
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S.D.D. 15 C 29-5a

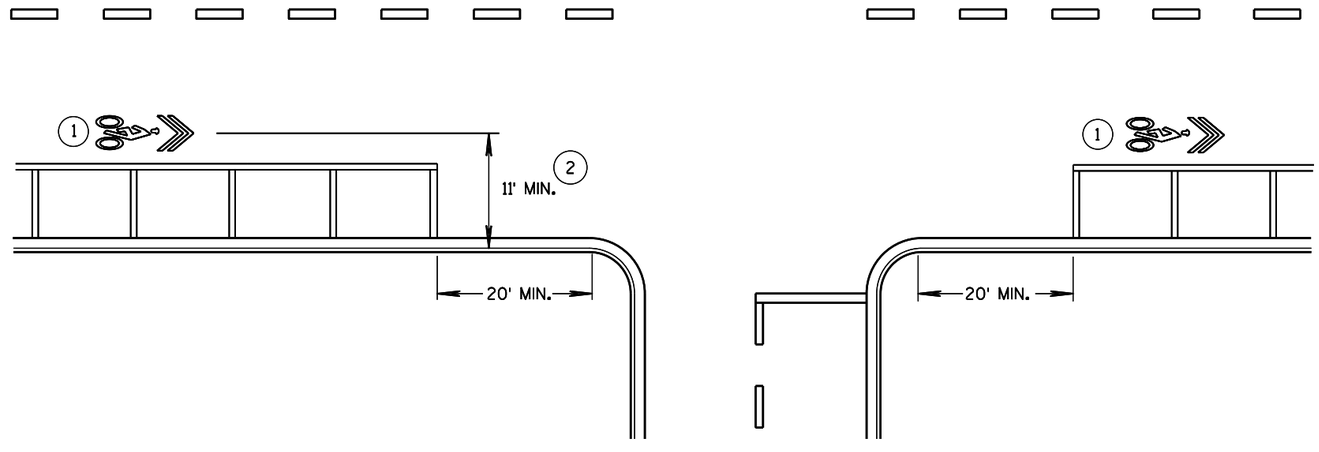
GENERAL NOTES

(1) MINIMUM OF ONE PER BLOCK, MAXIMUM OF 250 FEET.

(2) OR TO EDGE OF PAVEMENT WITHOUT CURB.



WITHOUT PARKING



WITH PARKING

PAVEMENT MARKING FOR
SHARED LANE
35 MPH OR LESS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

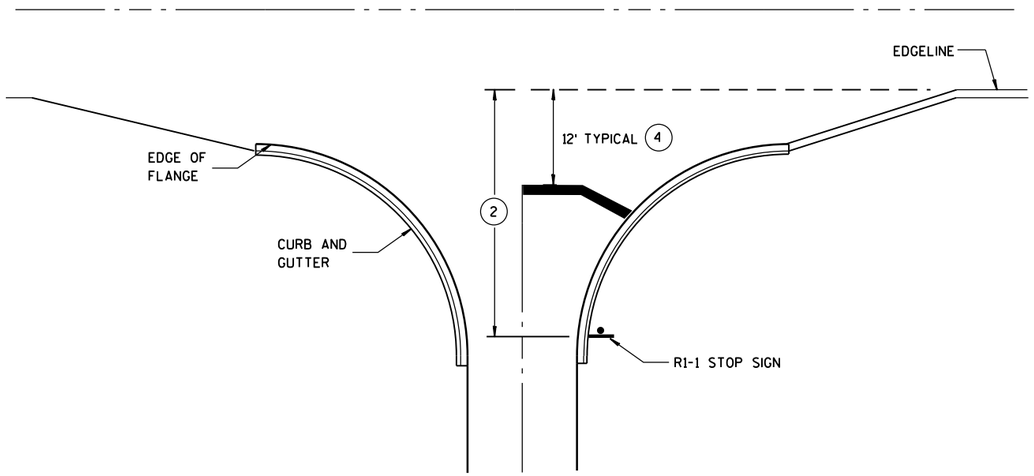
APPROVED
12-2016
DATE
/S/ Matthew R. Rauch
STATE SIGNING AND MARKING ENGINEER
FHWA

6

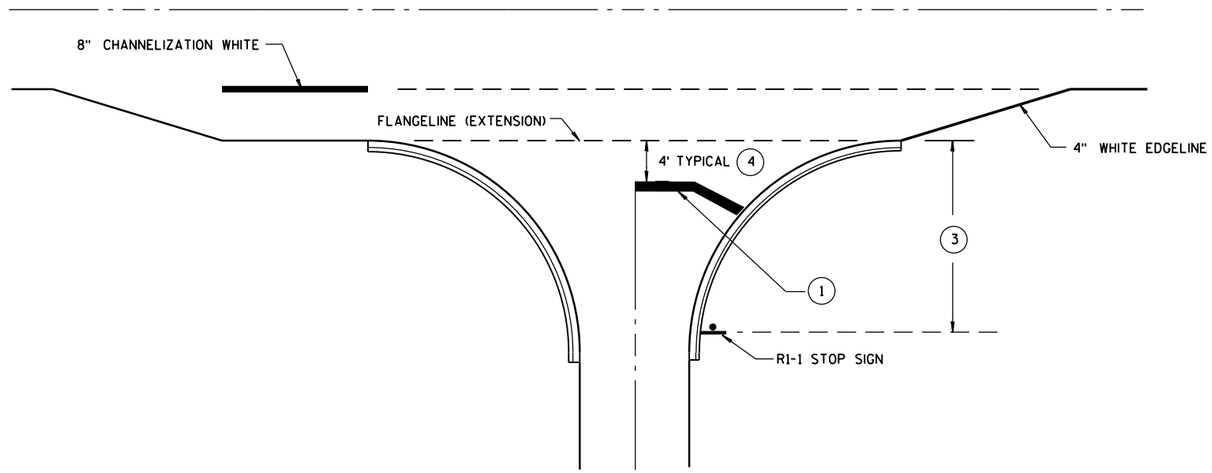
S.D.D. 15 C 29-5b

6

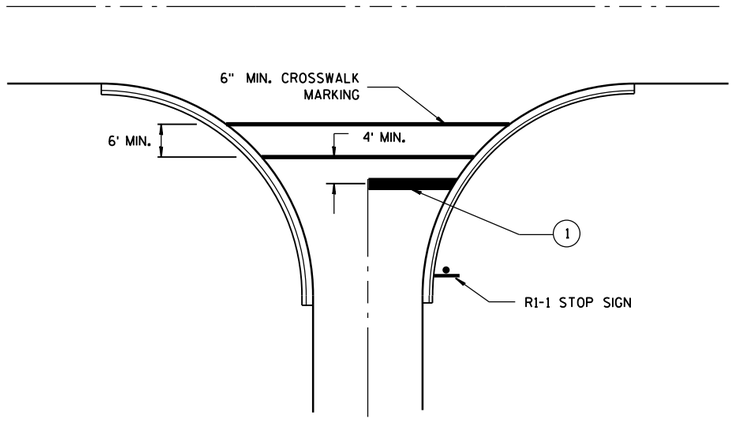
S.D.D. 15 C 29-5b



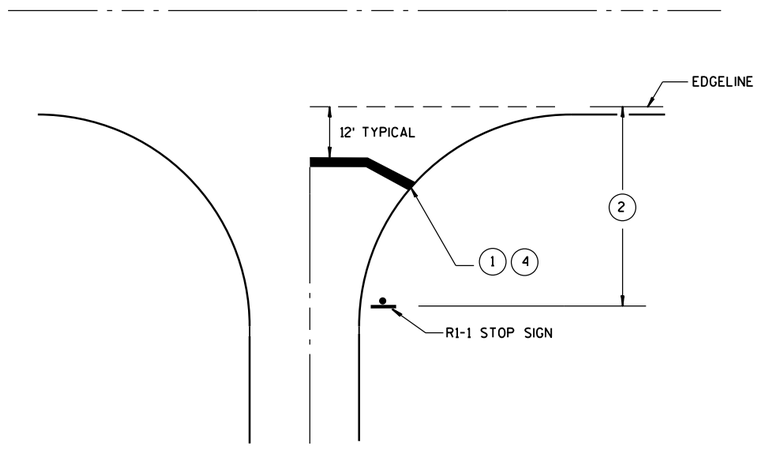
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.
3. IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.
4. MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES. (NO CLOSER THAN 4 FEET).

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4-18-2016
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MAR

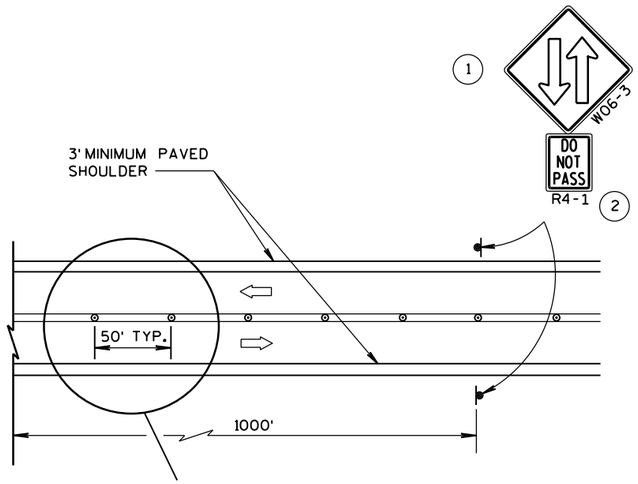
235

NEER

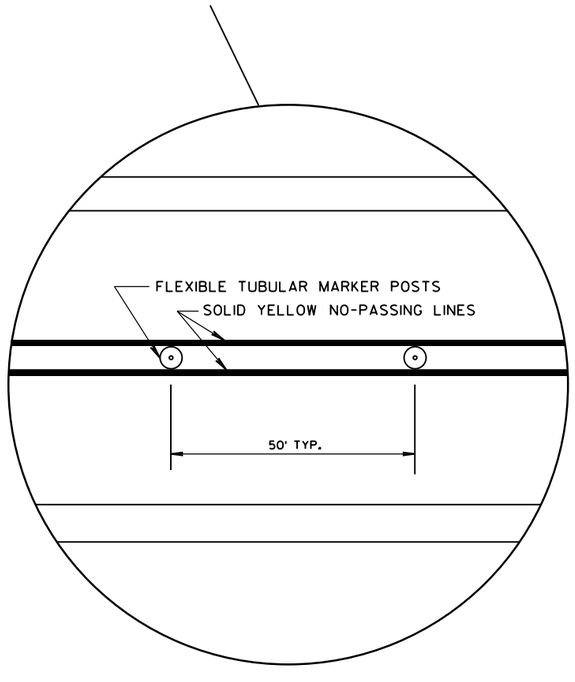
FHWA

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S.D.D. 15 C 33-2



TWO LANE, TWO WAY OPERATION



LEGEND

- SIGN ON PERMANENT SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC

GENERAL NOTES

ALL SIGNS ARE 48"x48" UNLESS OTHERS NOTED.

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

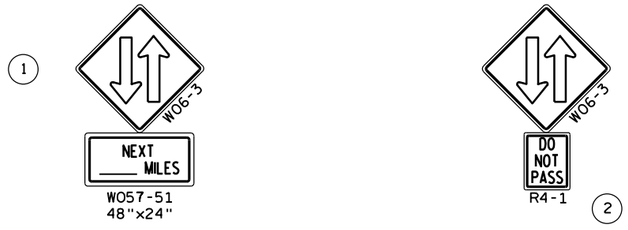
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

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

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

A SINGLE ROW OF FLEXIBLE TUBULAR MARKERS ON CENTERLINE EXTEND FOR THE ENTIRE LENGTH OF TWO-WAY TRAFFIC AT 50-FOOT SPACING.

COVER EXISTING CENTERLINE STRIPE WITH TEMPORARY PAVEMENT MARKING, 4-INCH DOUBLE YELLOW.



THE W06-3 WITH THE W057-51 SHALL BE LOCATED 200 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP AND/OR 500 FEET BEYOND ANY SIDEROAD. THE W06-3 WITH THE R4-1 SHALL BE LOCATED 1000 FEET BEYOND THE W06-3 AND THE W057-51 AND THE SIGNS SHALL BE ALTERNATED WITH ONE MILE INTERVALS BETWEEN W06-3 SIGNS.

(2) CONVENTIONAL: 24"x30"
FREEWAY AND EXPRESSWAY: 36"x48"

TRAFFIC CONTROL, TWO LANE TWO WAY OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

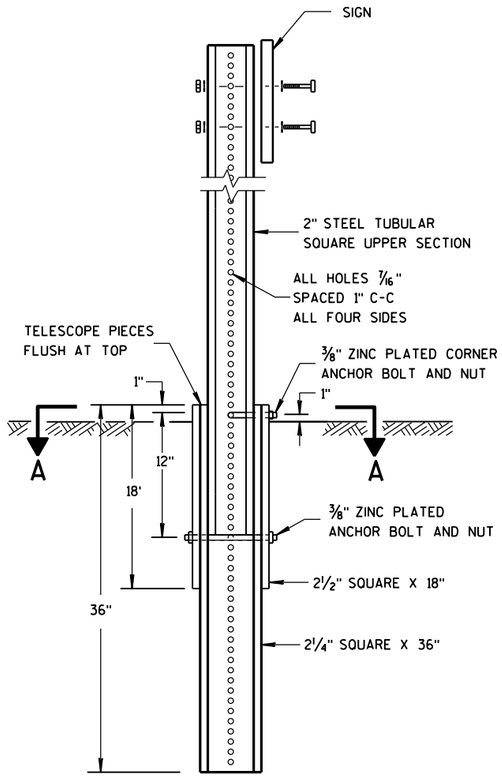
APPROVED

8/2013 DATE — /S/ Travis Feltes STATE TRAFFIC ENGINEER — SIGN

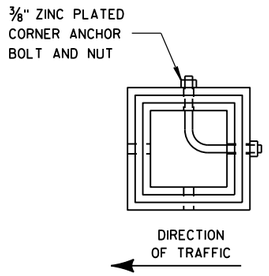
FHWA

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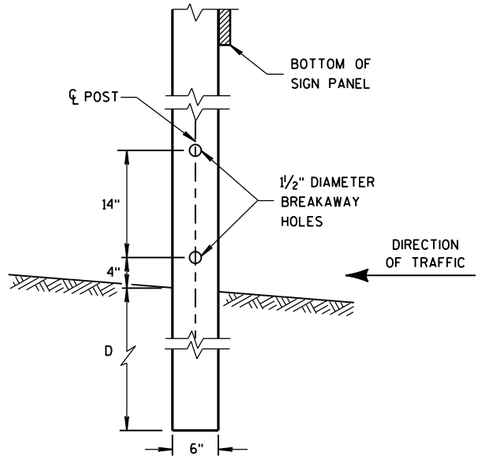
S.D.D. 15 D 6-3



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



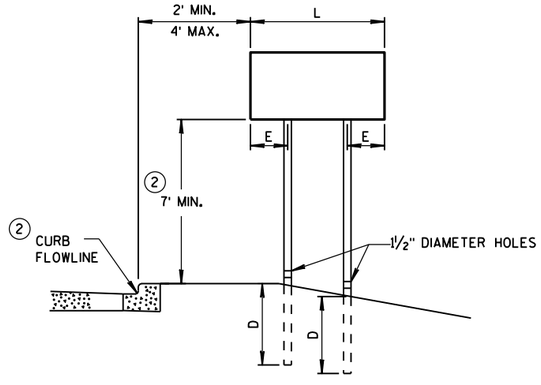
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

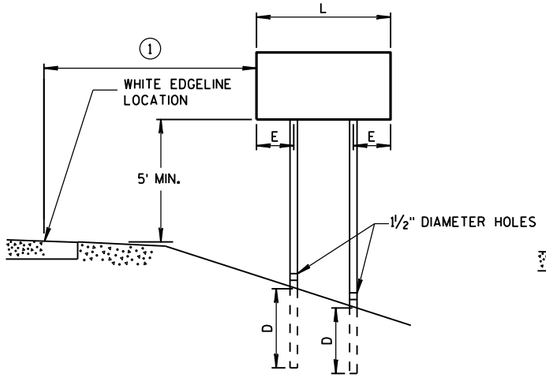
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

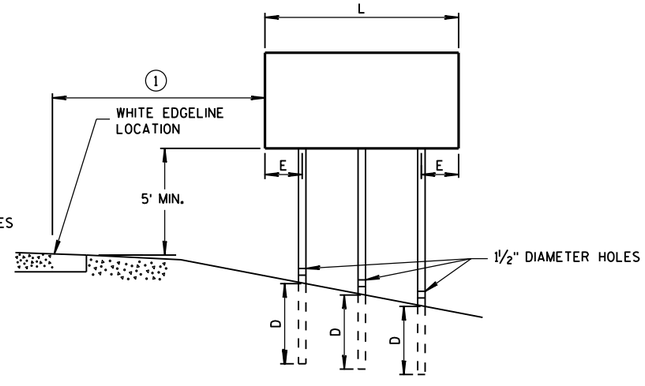
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK 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

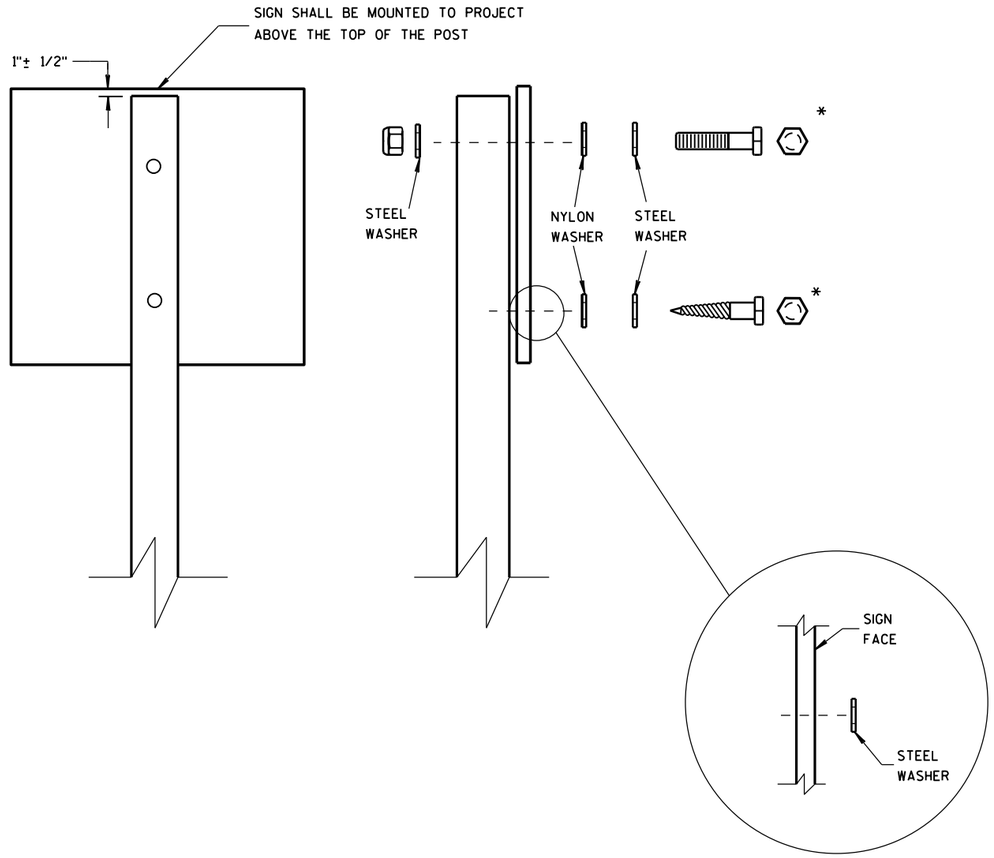
SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 15 D 38-2a
S.D.D. 15 D 38-2a



WASHER PLACEMENT WHEN SIGN HAS OTHER THAN TYPE H OR TYPE F FACE

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 POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 5/16" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

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 FOR ALL TYPE H SIGNS

* 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

S.D.D. 15 D 38-2b

S.D.D. 15 D 38-2b

ATTACHMENT OF SIGNS TO POSTS

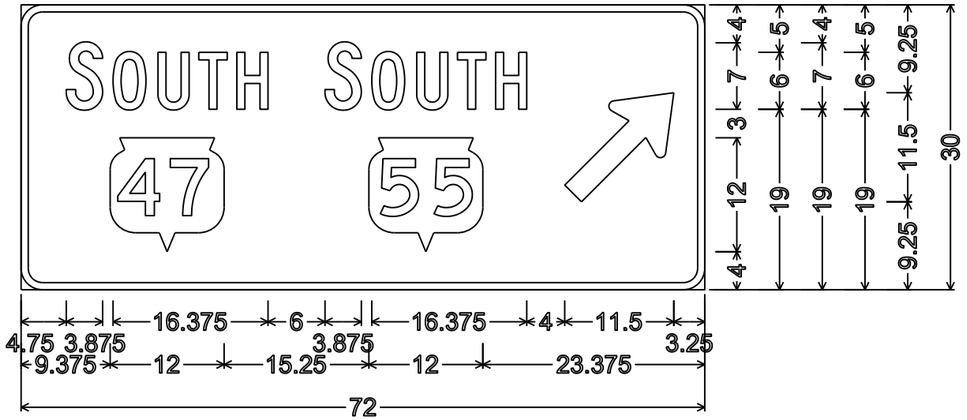
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

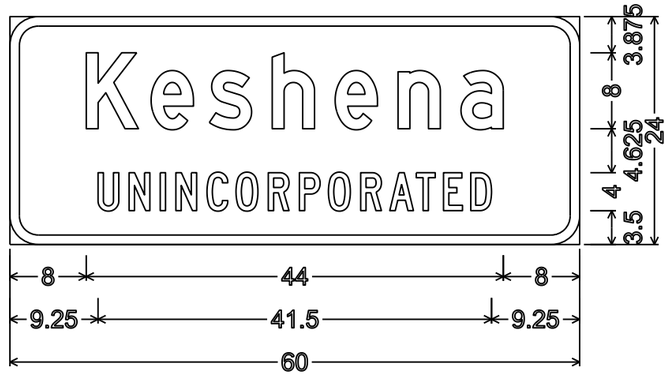
June 2017
DATE

/S/ Andrew Heldtke
WORK ZONE ENG

FHWA



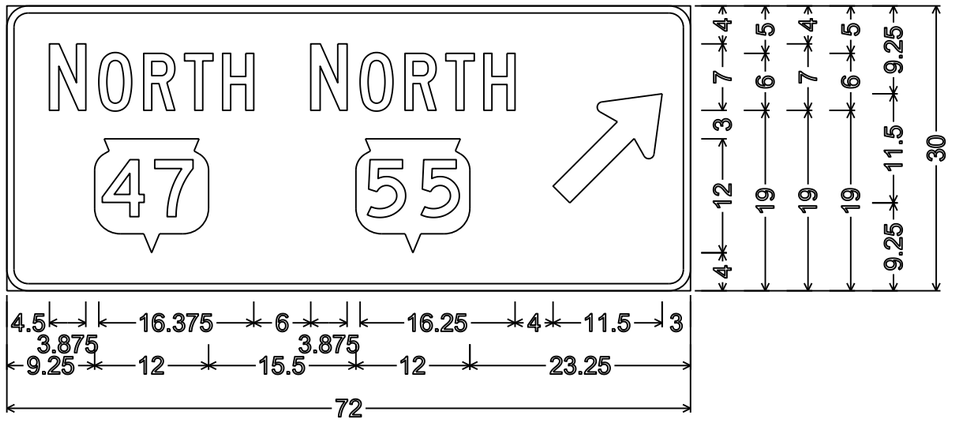
D1-2; 2.250" Radius, 0.750" Border
"SOUTH" C; "SOUTH" C; (3-2)



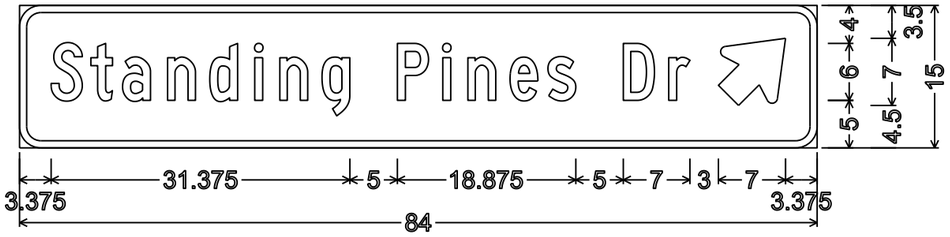
I2-3;
3.000" Radius, 1.000" Border,
"Keshena" D; "UNINCORPORATED" C (3-25)

NOTES

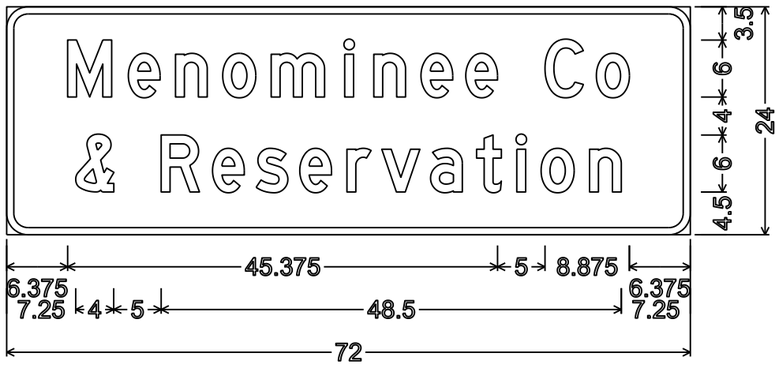
1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E except as noted



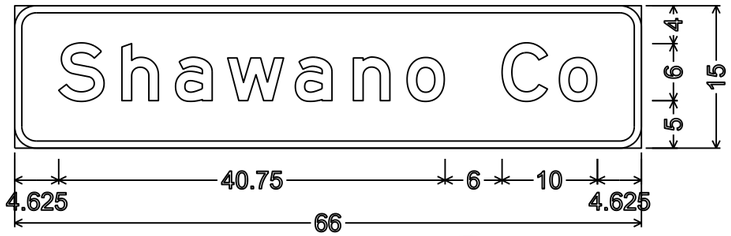
D1-2; 2.250" Radius, 0.750" Border,
"NORTH" C; "NORTH" C (3-21)



D1-1; 2.250" Radius, 0.750" Border,
"Standing" C; "Pines" C; "Dr" C (3-8)



I2-2R; 2.250" Radius, 0.750" Border,
"Menominee" D; "Co" D; "&" D; "Reservation" D (1-13)



I2-2; 2.250" Radius, 0.750" Border (1-5)

7

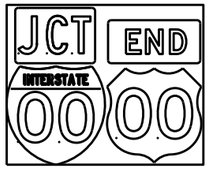
7

PROJECT NO: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	PERMANENT SIGNING	SHEET NO: 239	E

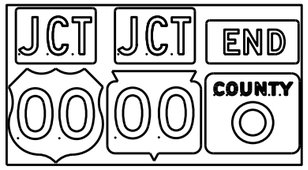
TYPICAL ASSEMBLIES



J1-1



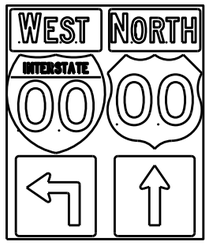
J1-2



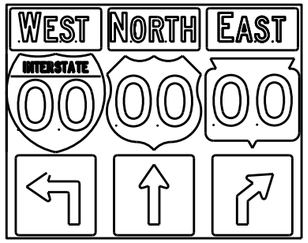
J1-3



J2-1



J2-2

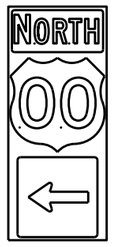


J2-3

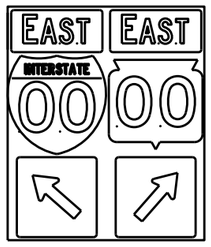


JV

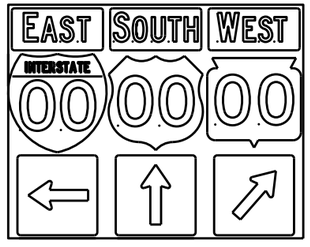
(Typical Vertical J-Assembly
See Note 10 and 11)



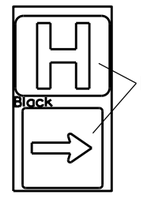
J3-1



J3-2



J3-3

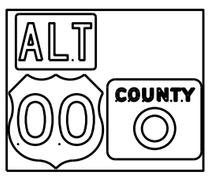


Blue Background

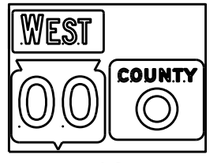
JH-1



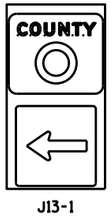
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1

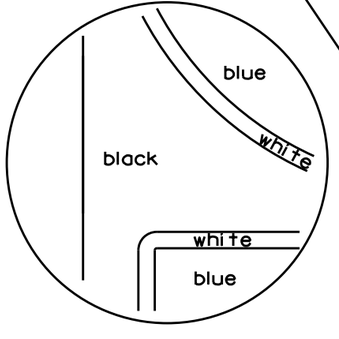


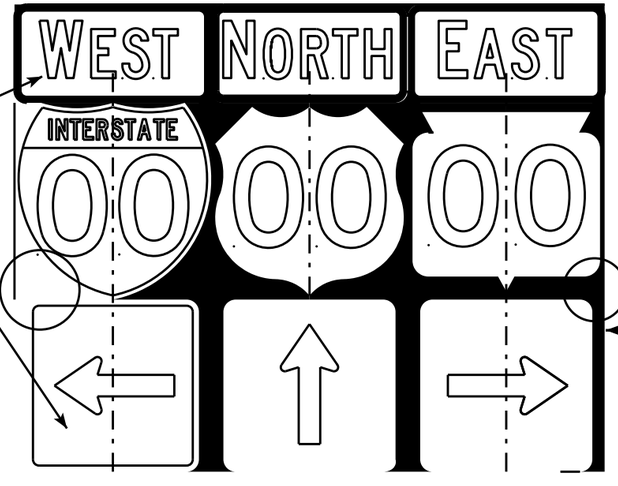
J23-1

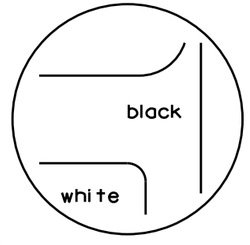


J22-1

blue background
with interstate







black background

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/06/14 PL... A2-1S.8

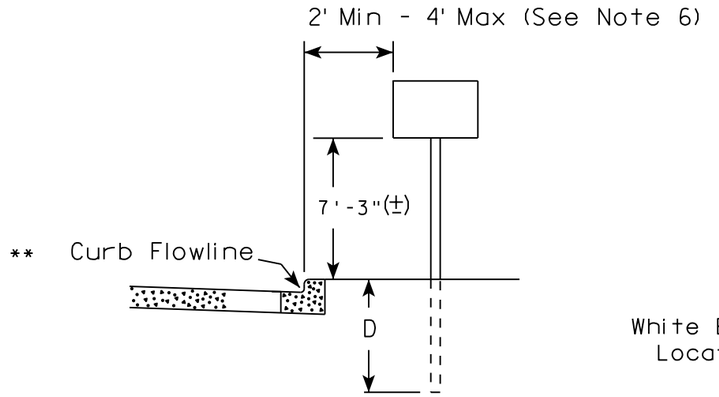
PROJECT NO:

SHEET NO: E

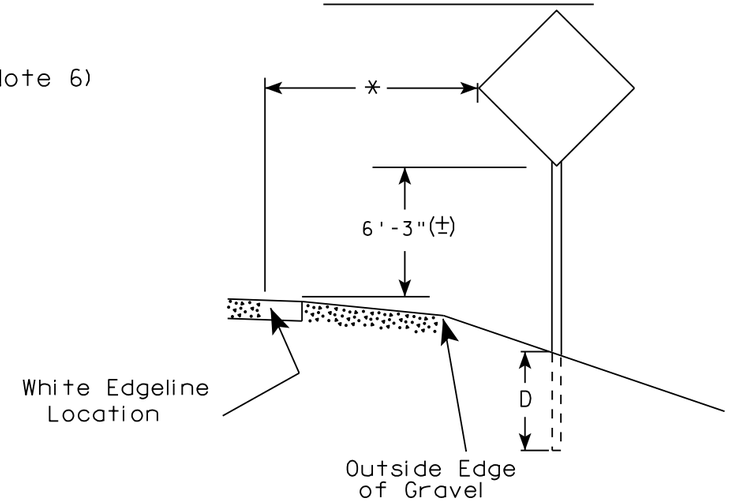
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A21S.DGN PLOT DATE : 06-FEB-2014 14:10 PLOT BY : mscsja PLOT NAME :

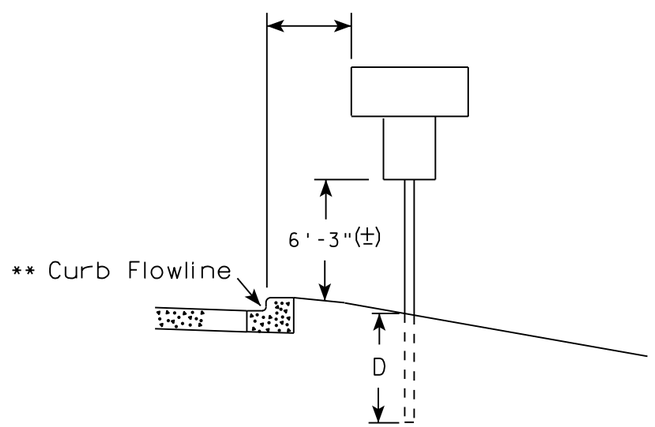
WISDOT/CADDS SHEET 42

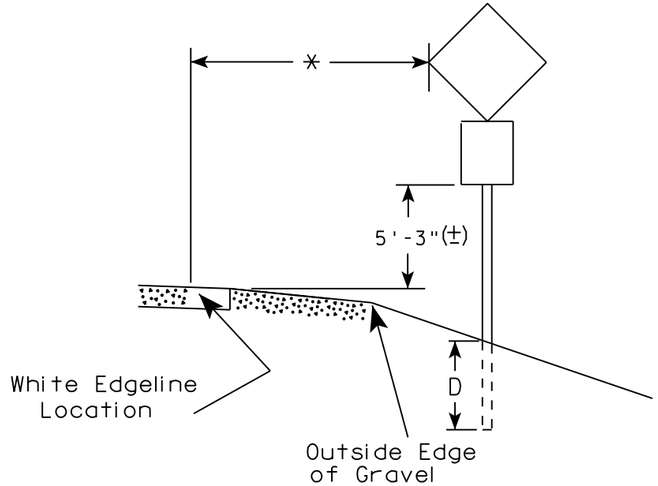
URBAN AREA



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" (±).

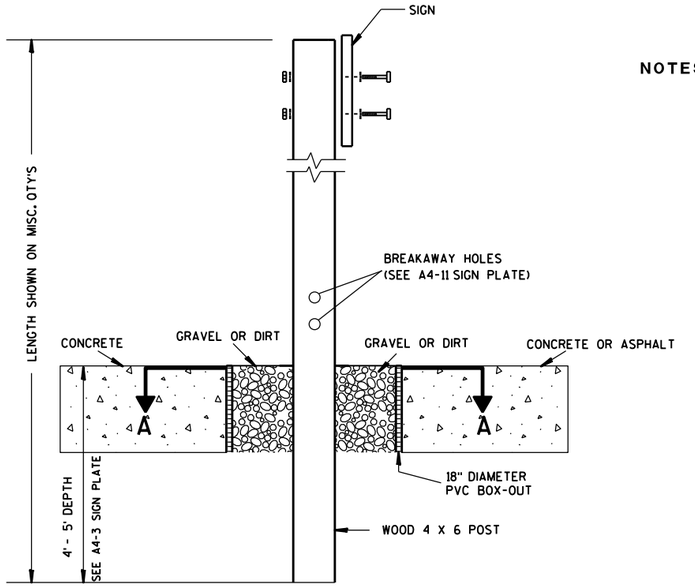
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-3.21

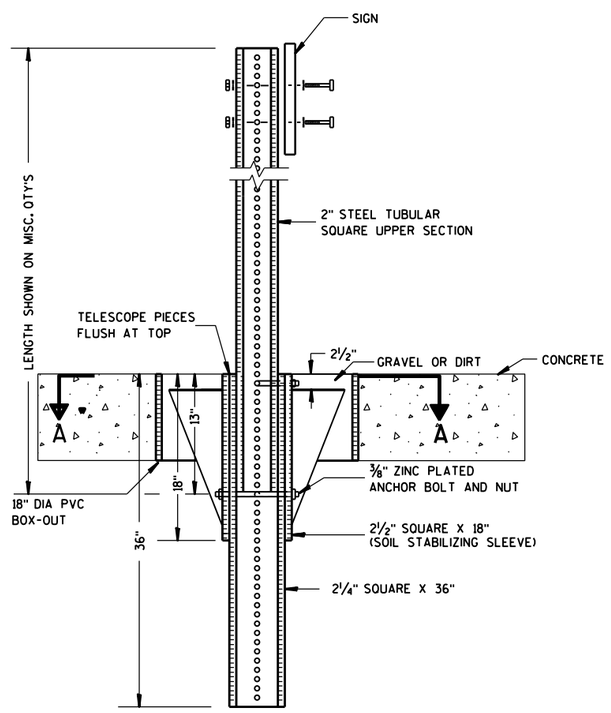
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 241	E



ELEVATION VIEW

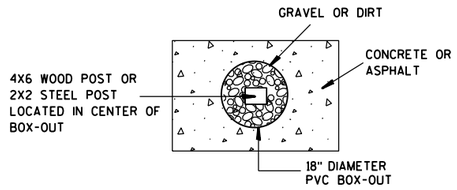
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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



ELEVATION VIEW

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



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

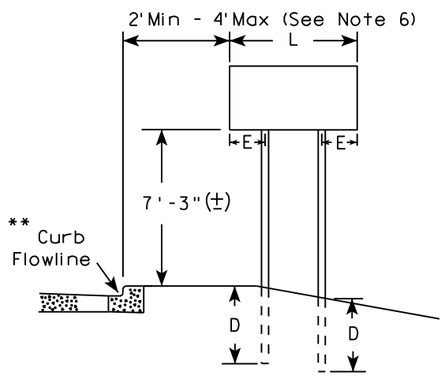
APPROVED Matthew R Rauch
for State Traffic Engineer

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

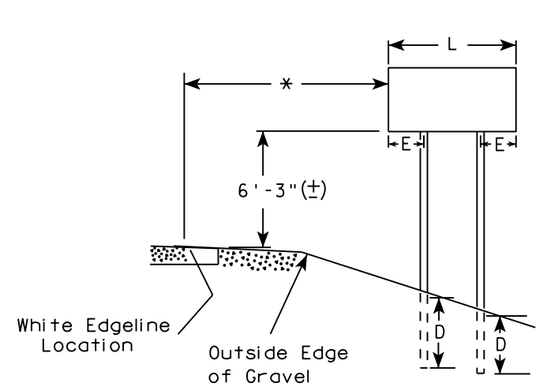
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

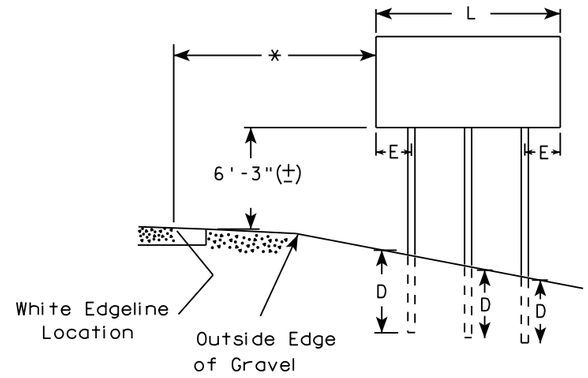
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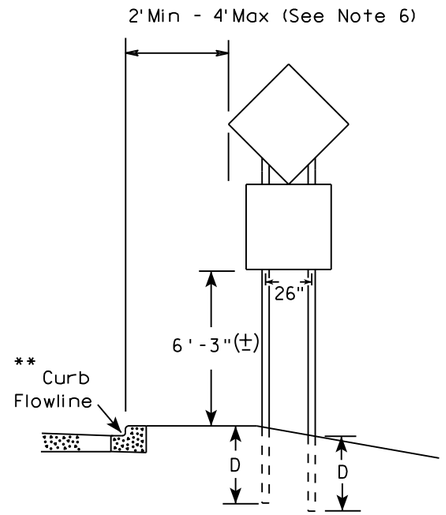
URBAN AREA



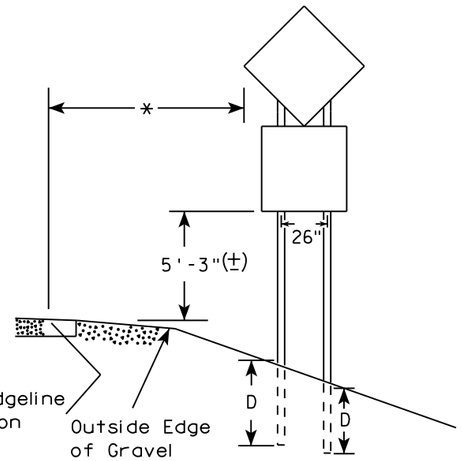
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

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

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

GENERAL NOTES

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

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

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

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

POST EMBEDMENT DEPTH

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

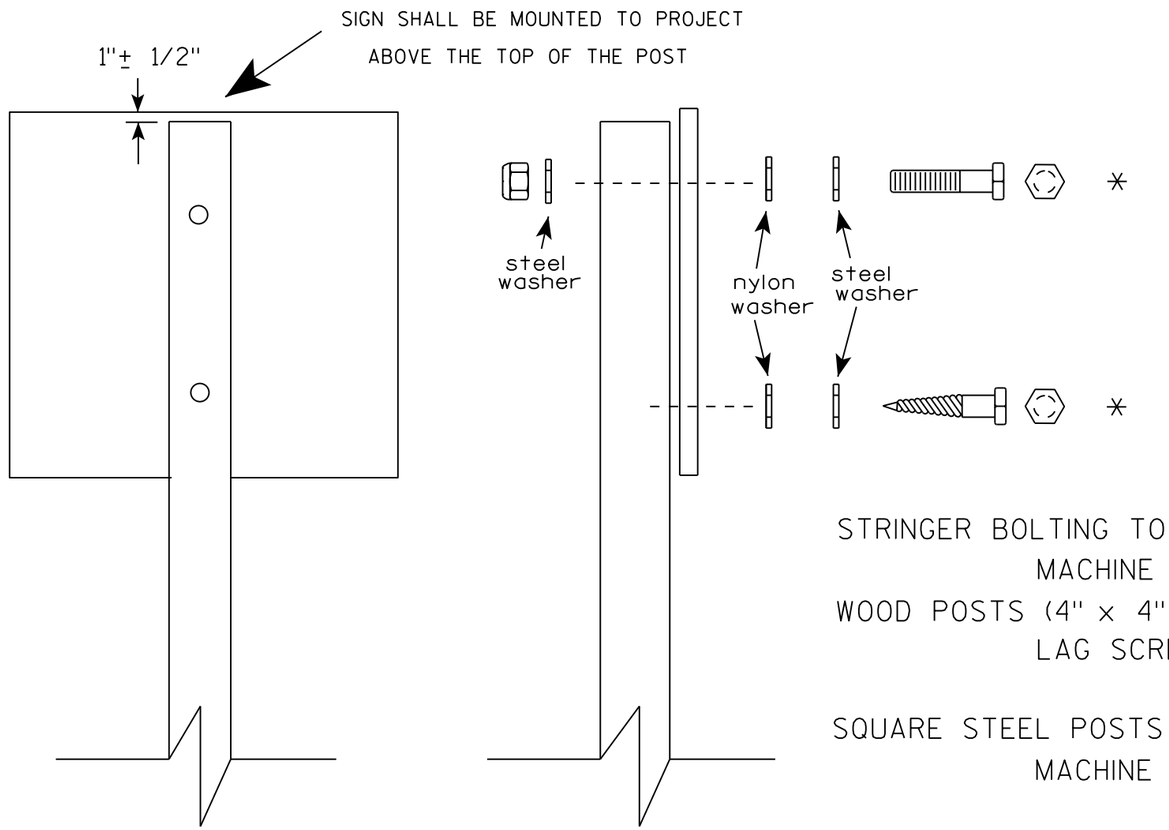
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 243	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

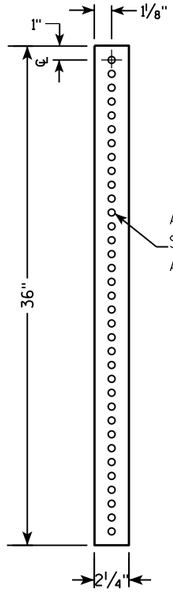
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PROJECT NO: SHEET NO: E

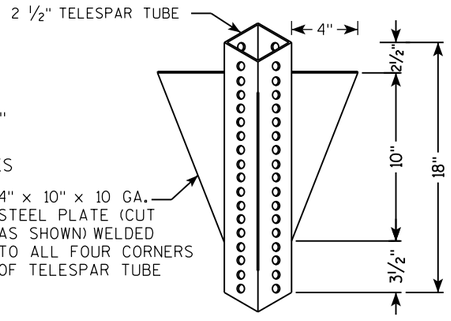
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TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

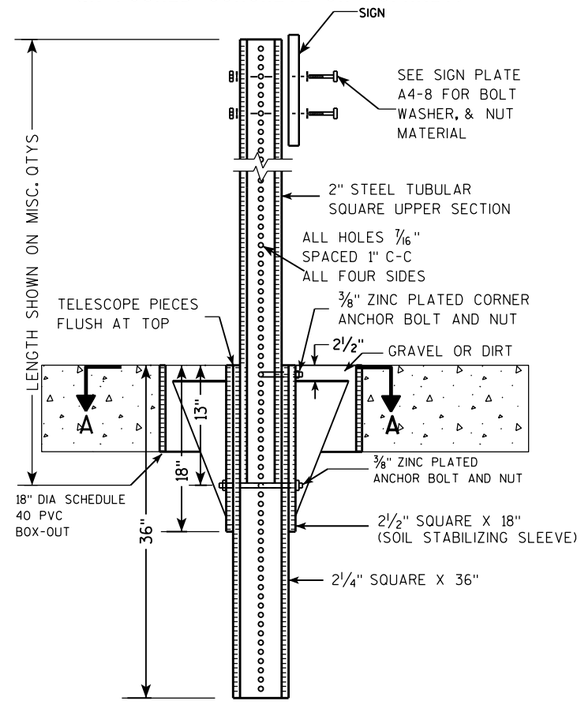
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



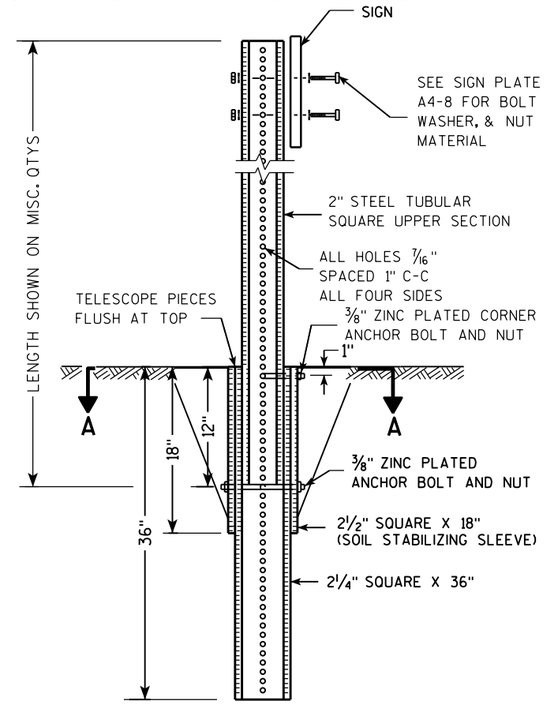
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

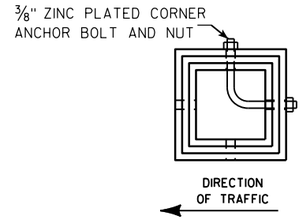


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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).

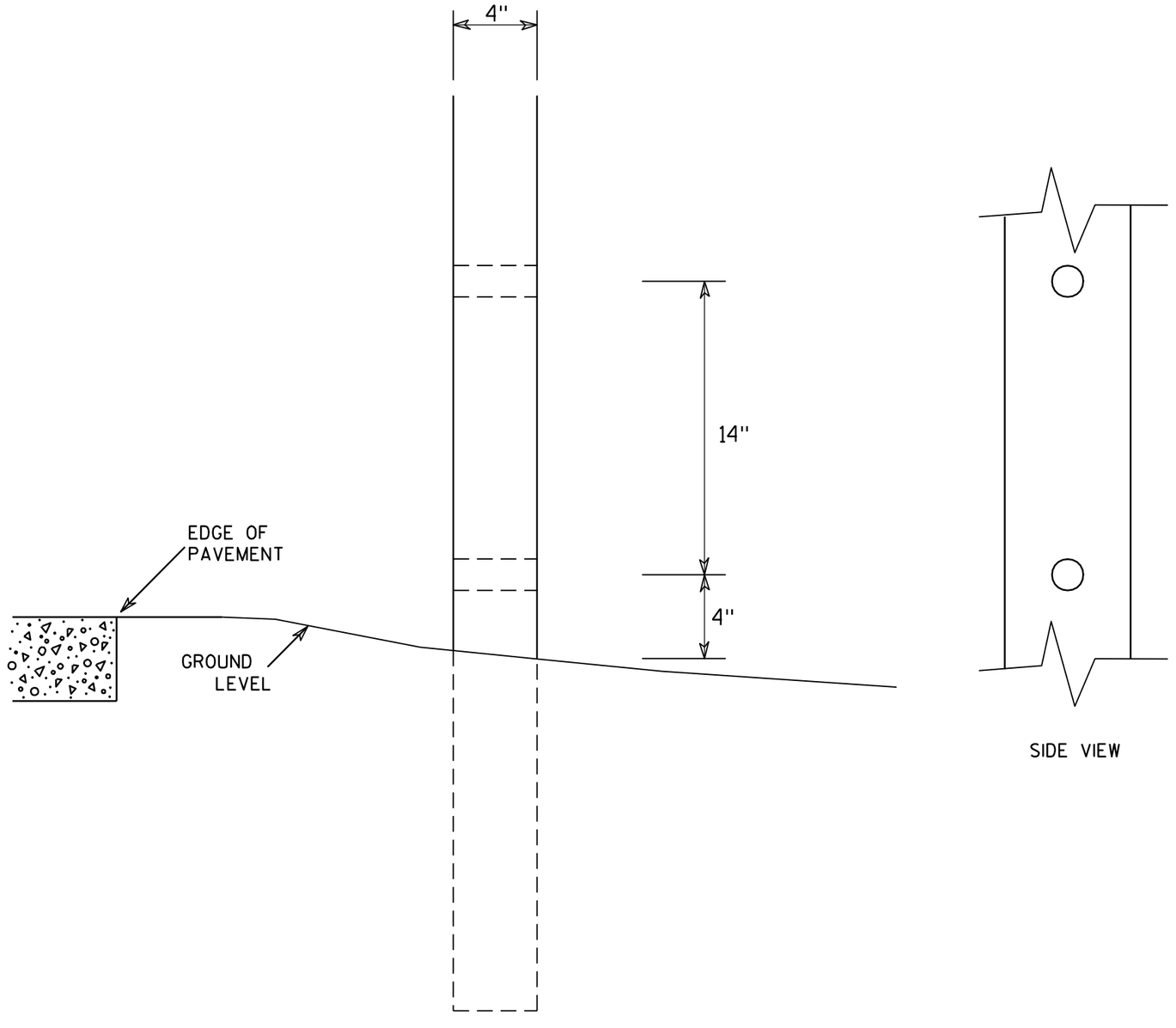
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 245 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



SIDE VIEW

GENERAL NOTES

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

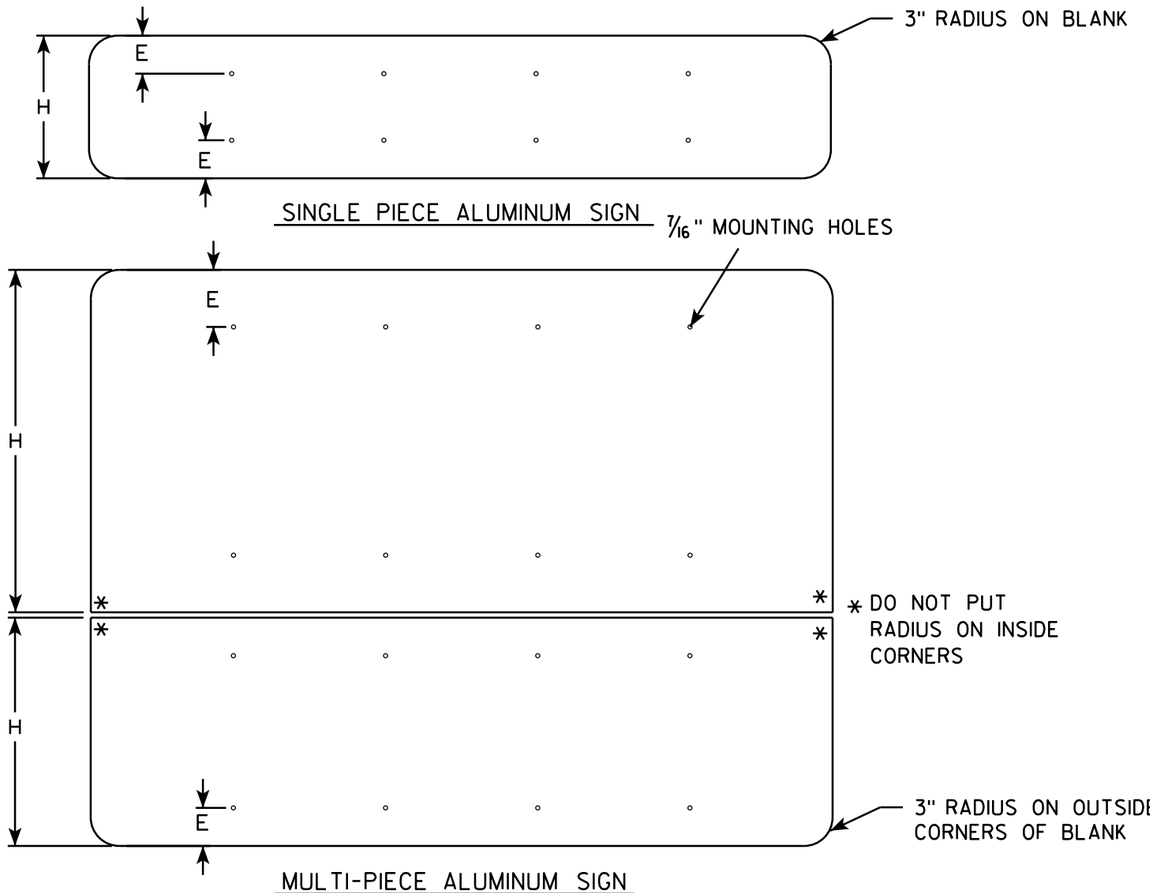
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

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

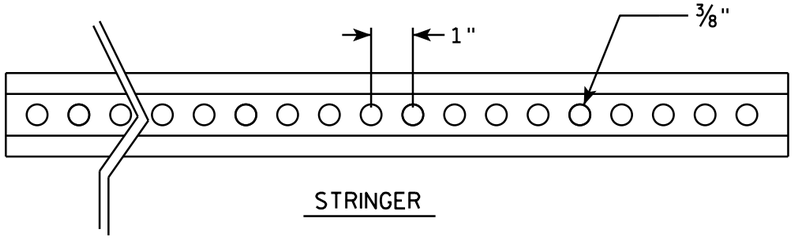
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 246	E



GENERAL NOTES

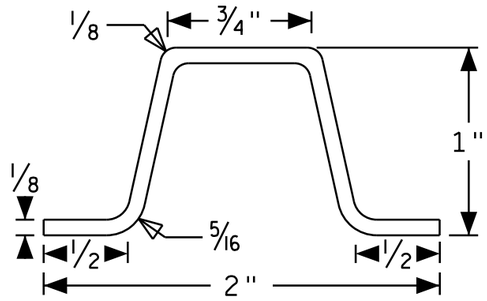
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER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

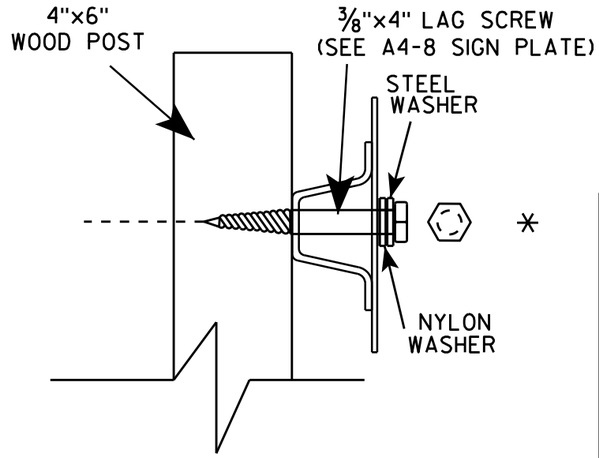


STRINGER

CROSS SECTION VIEW OF CHANNEL



POST MOUNTING



SIGN STRINGER MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

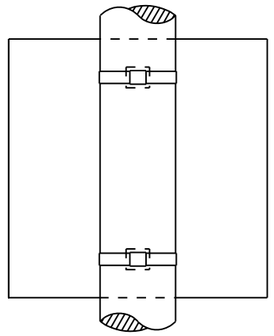
DATE 4/26/16 PLATE NO A4-18.1

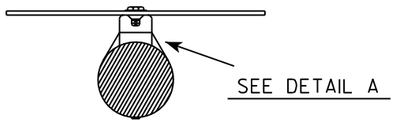
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

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

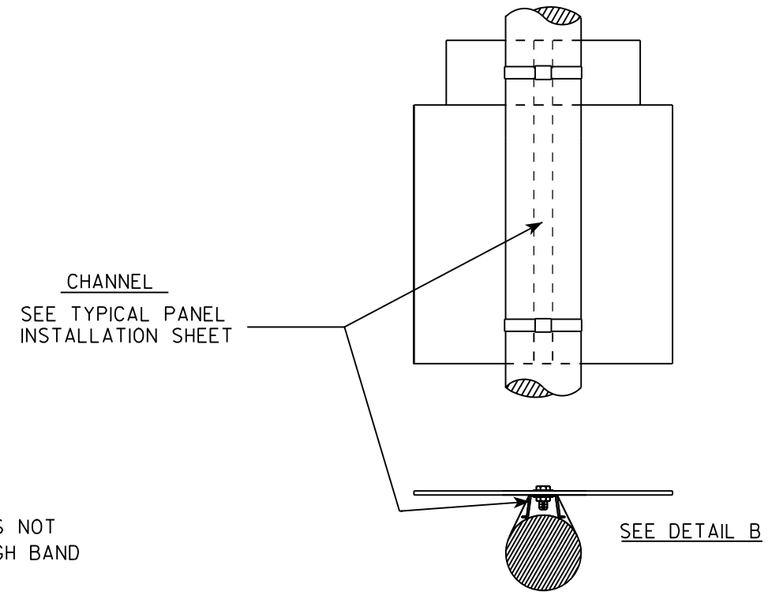
BANDING

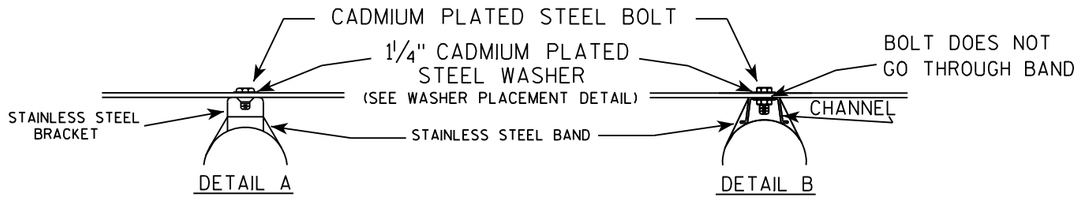
SINGLE SIGN



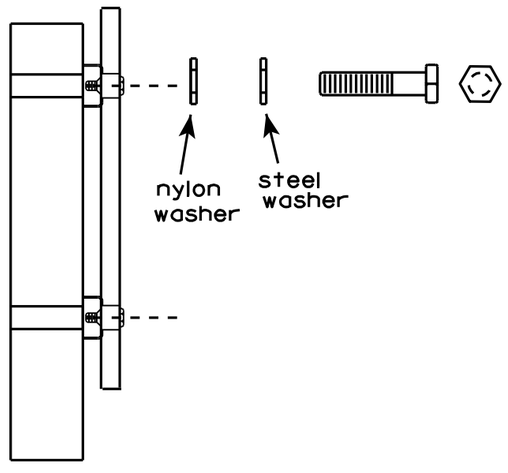


"J" ASSEMBLY





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 3/4" in width and 0.025" thickness.

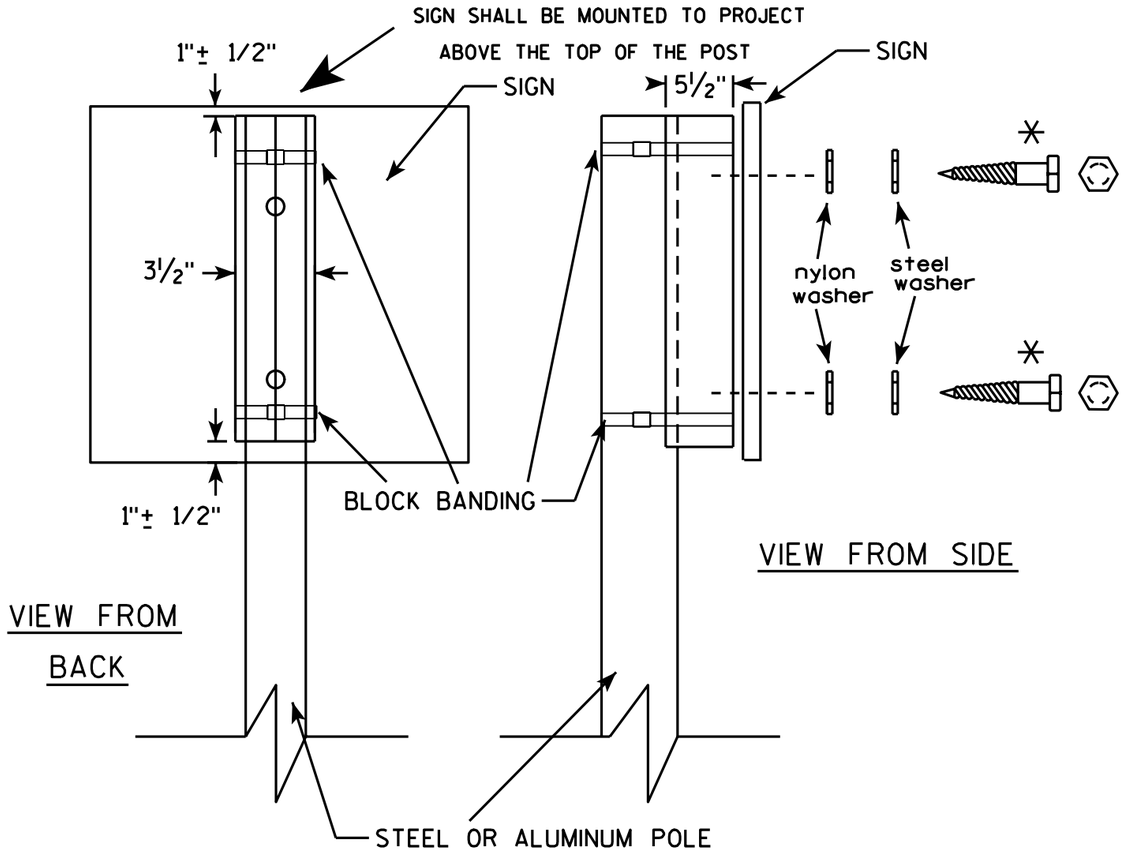
STANDARD SIGN
SIGN BANDING DETAILS

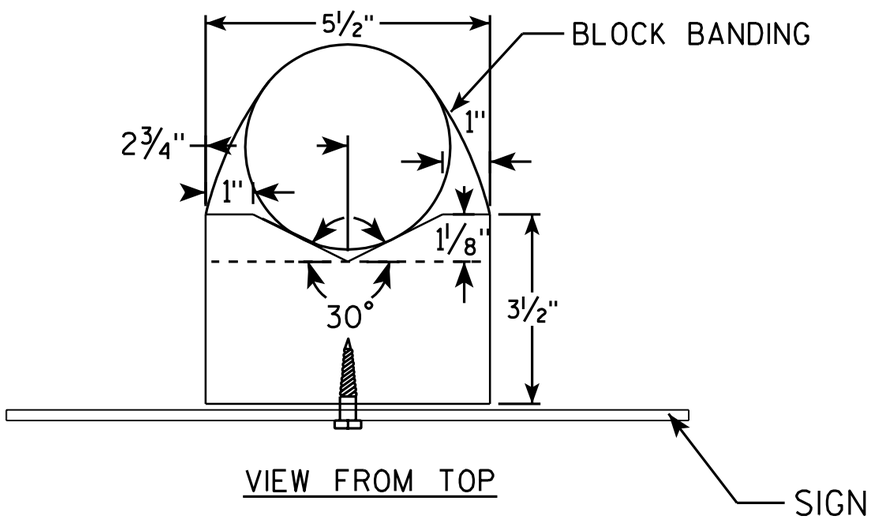
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/16/13 PLATE NO. A5-9.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 248	E





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, or
   b. Cadmium plated in accordance with ASTM Designation : B 766 TYPE 3, Class 12, or
   c. 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)

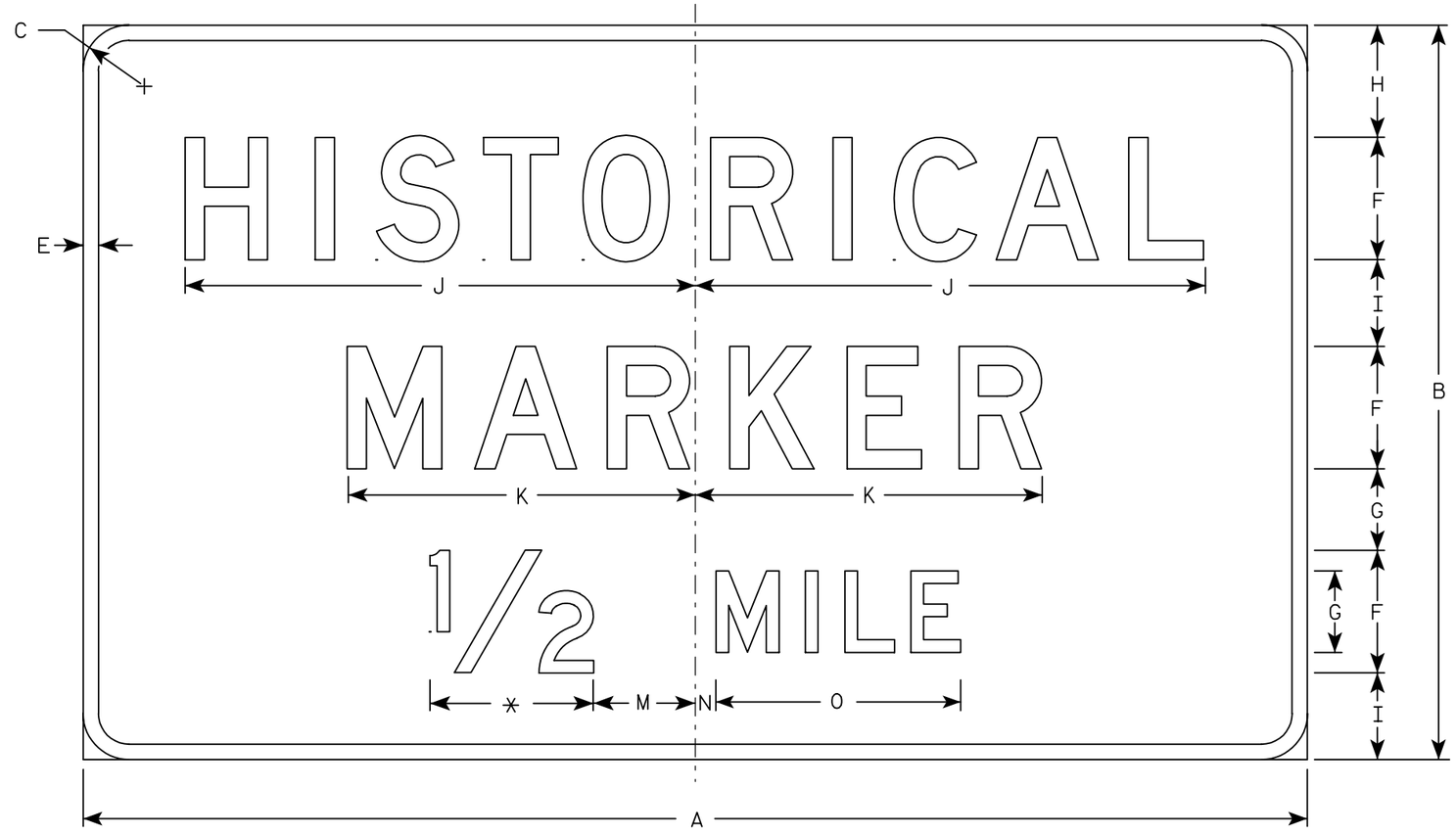
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/12/07 PLATE NO. A5-10.1

PROJECT NO:

SHEET NO: 249 E



D5-63 * See Note 5

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Brown
   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.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

Metric equivalent for this sign is:

SIZE	
1	
2	1500 mm X 900 mm
3	
4	
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.	Area m2
1																												
2	60	36	2 1/4		3/4	6	4	5 1/2	4 1/4	25	17		5	1	12												15.0	1.35
3																												
4																												
5																												

STANDARD SIGN
D5-63

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 3/23/99 PLATE NO. D5-63.9

STATE PROJECT NUMBER:

SHEET NO: 250 E

58.59.60.61.62.63

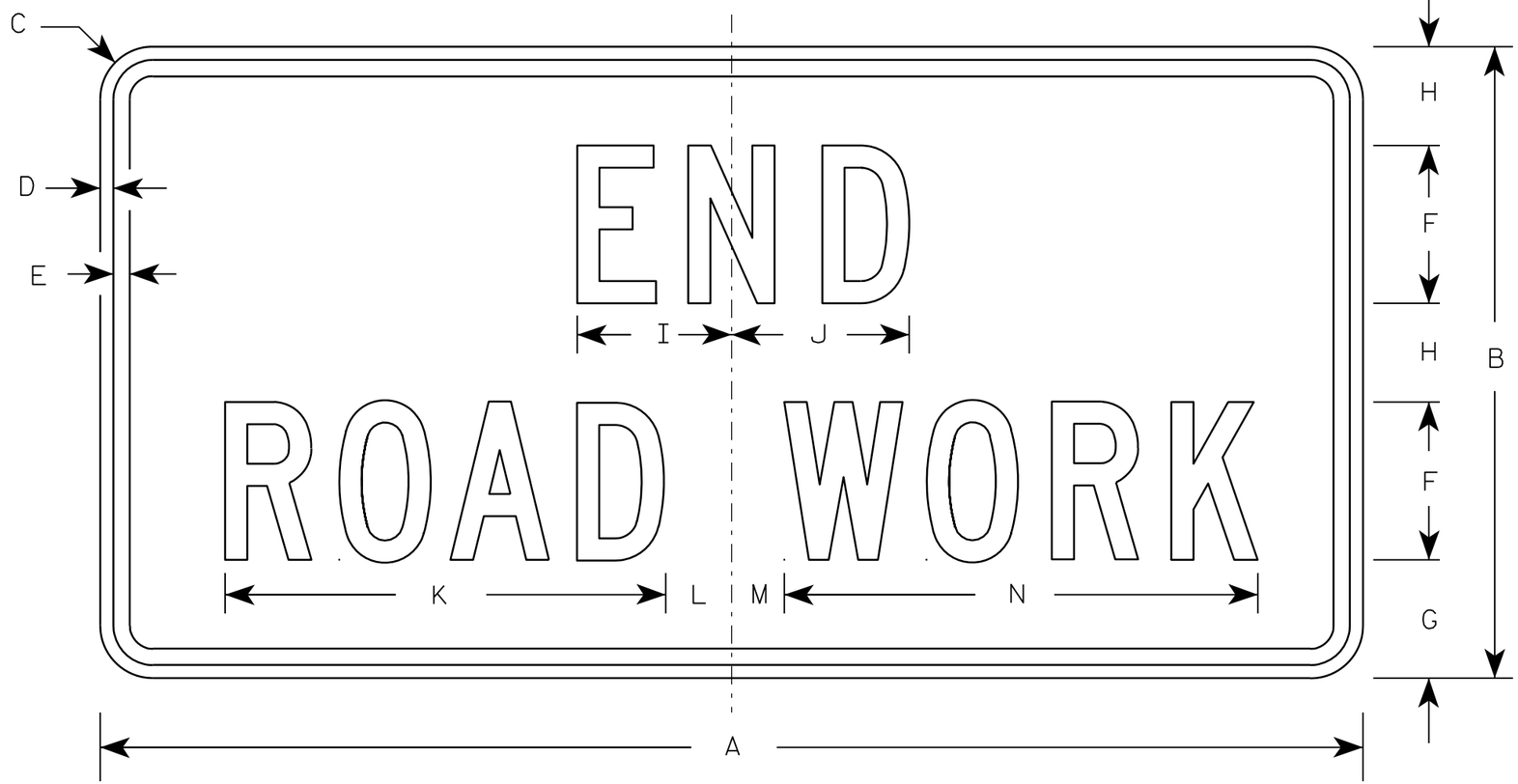
LEVELS ON - 2.3. 5.6. 10.

7

7

FILE NAME : C:\Users\Projects\tr_stdplate\D563.DGN PLOT DATE : 09-JAN-2002 13:18 ORG DATE : 3/23/99 Originator : Don Kluever

WISDOT/CADDS SHEET 42



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

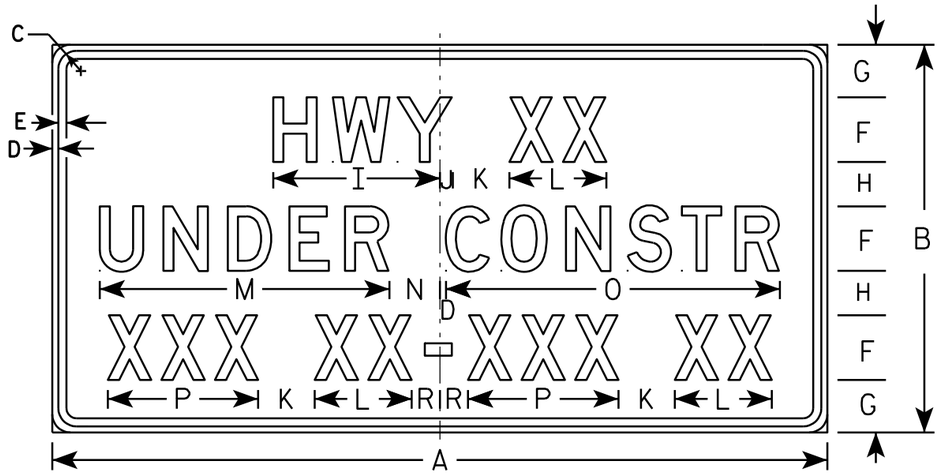
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 251	E

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Substitute appropriate numeral and adjust spacing to achieve proper balance.



G20-57

Metric equivalent for this sign is:

SIZE	
1	
2	
3	
4	2400 mm X 1200 mm
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.	Area m2
1																												
2																												
3																												
4	96	48	2 1/4	3/4	1	8	6 1/2	5 1/2	20 5/8	1 5/8	7	12	35 7/8	6 1/4	41 3/8	18 5/8		3 1/2									32.0	2.88
5																												

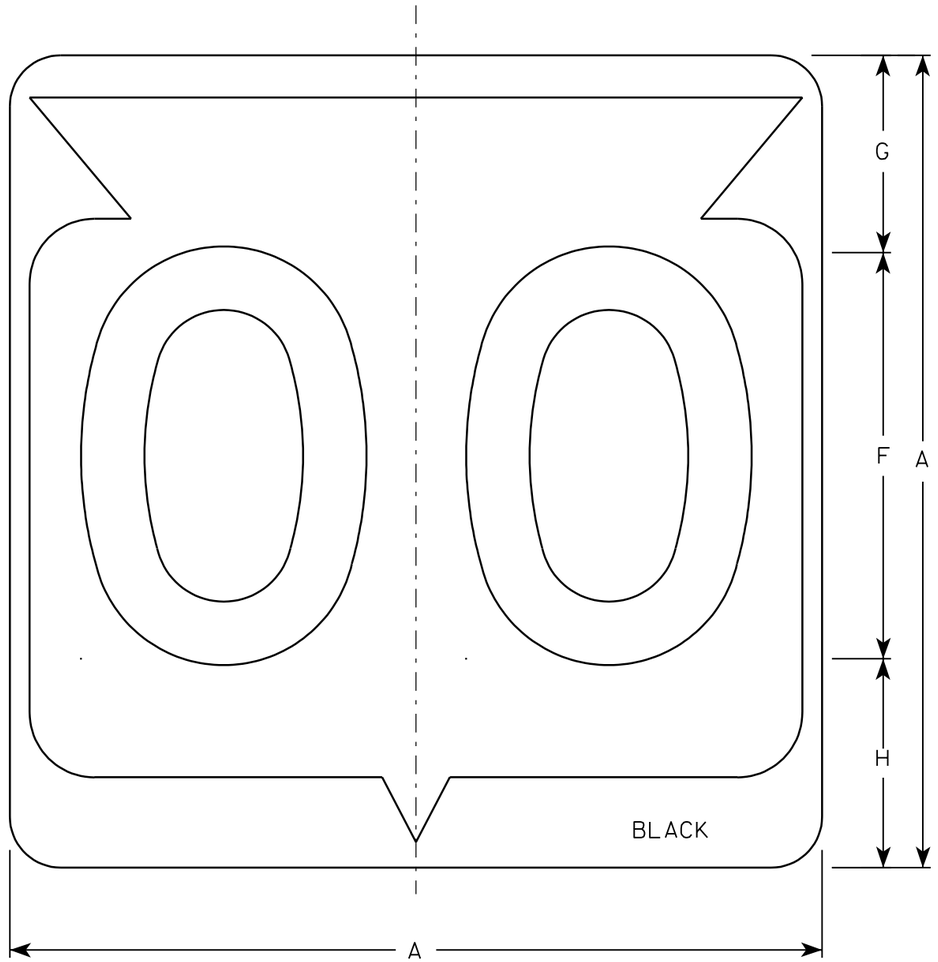
STANDARD SIGN
G20-57

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/13/09 PLATE NO. G20-57.2

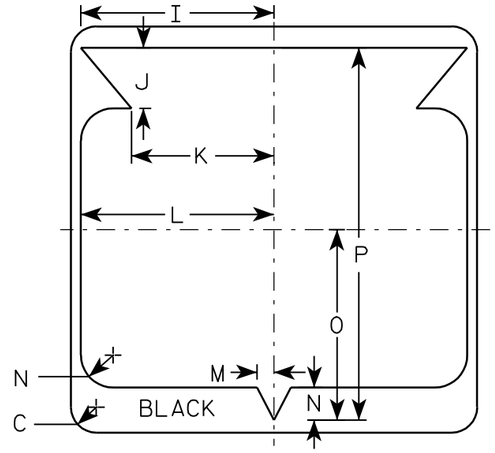
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 252	E



M1-6

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 6
   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. Substitute appropriate Series numerals and adjust spacing as per plate A10-1.
6. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective



Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	900 mm X 900 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																												
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	.36
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	.81
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	.81
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	.81

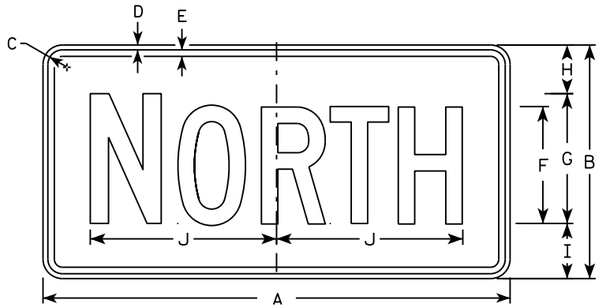
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

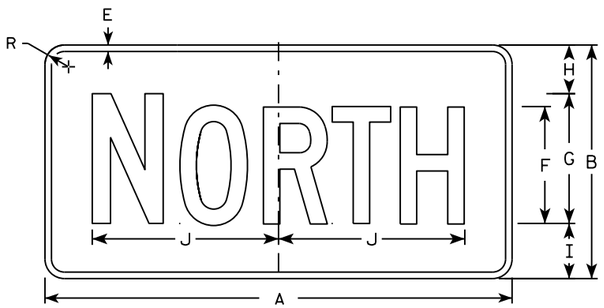
APPROVED Chester J Spang for State Traffic Engineer

DATE 3/20/02 PLATE NO. M1-6.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 253	E



M3-1
MM3-1
MP3-1



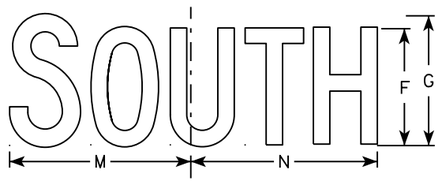
MB3-1
MK3-1
MN3-1



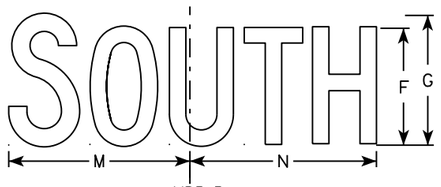
M3-2
MM3-2
MP3-2



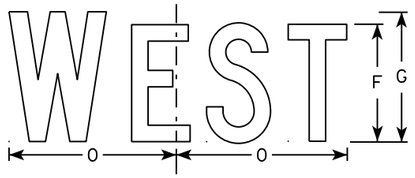
MB3-2
MK3-2
MN3-2



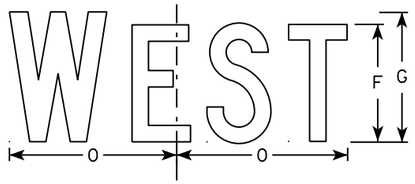
M3-3
MM3-3
MP3-3



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

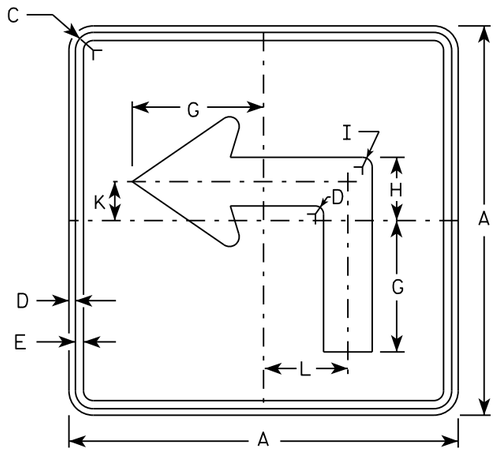
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

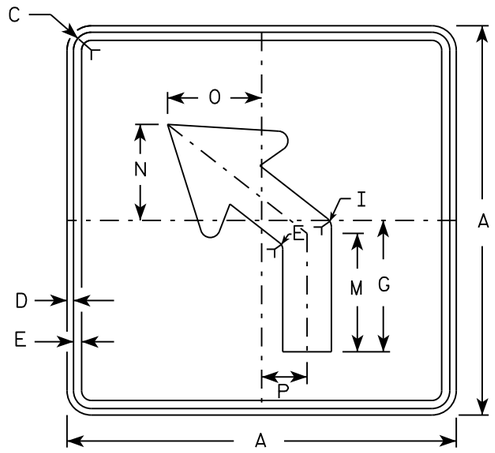
DATE 10/15/15 PLATE NO M3-1.14

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

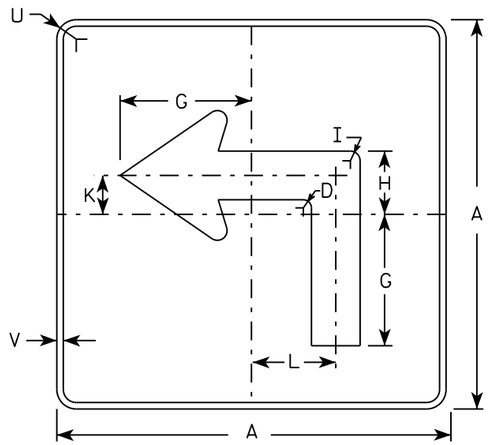
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



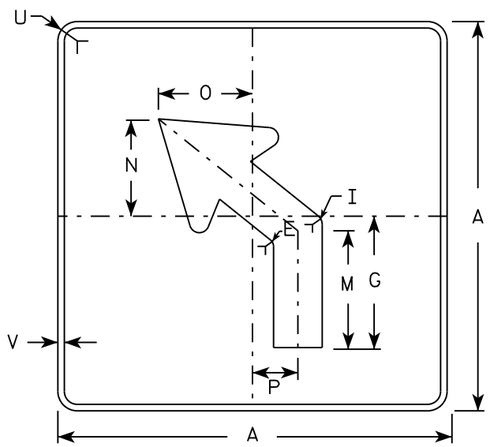
M5-1L
MM5-1L
MO5-1L
MP5-1L



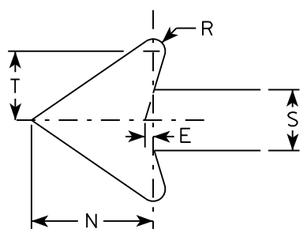
M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L



MB5-2L
MK5-2L
MN5-2L
MR5-2L



NOTES

1. Signs are Type II - Type H reflective except as shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White - Type H Reflective
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

STANDARD SIGN
M5-1 & M5-2

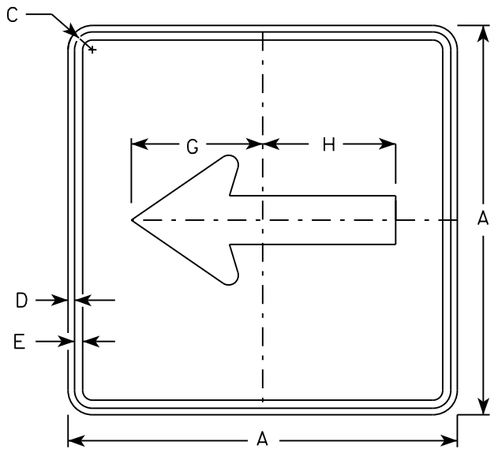
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

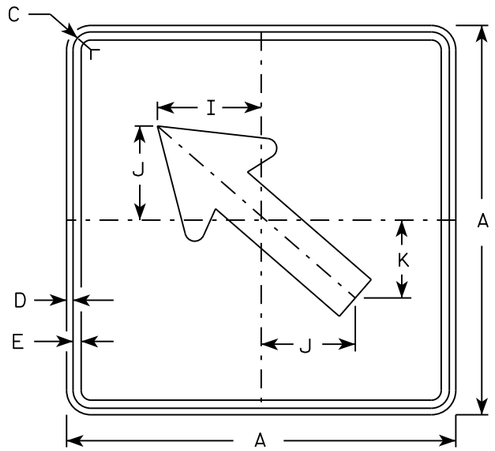
DATE 10/15/15 PLATE NO. M5-1.13

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M51.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



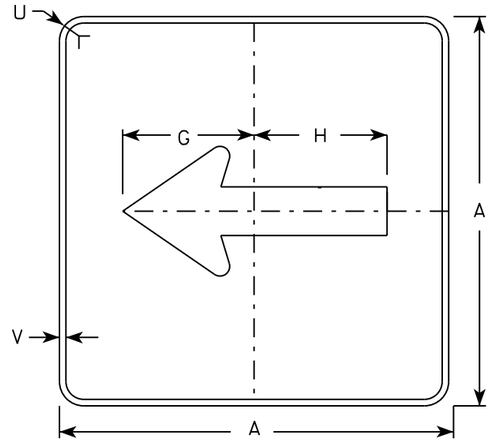
M6-1
MM6-1
MO6-1
MP6-1



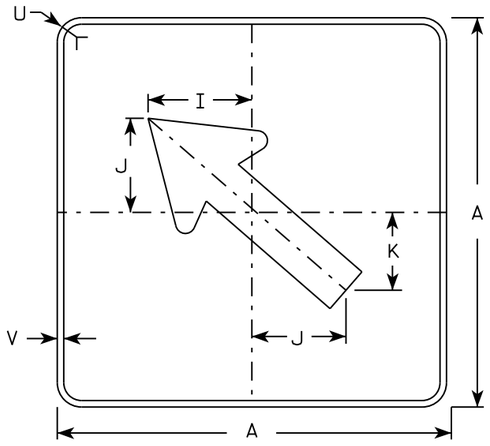
M6-2
MM6-2
MO6-2
MP6-2

NOTES

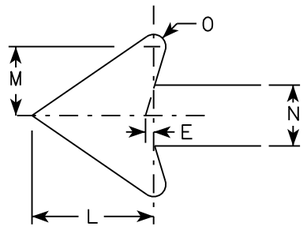
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



MB6-1
MK6-1
MN6-1
MR6-1



MB6-2
MK6-2
MN6-2
MR6-2



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2						3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25

STANDARD SIGN
M6-1 & M6-2
SERIES

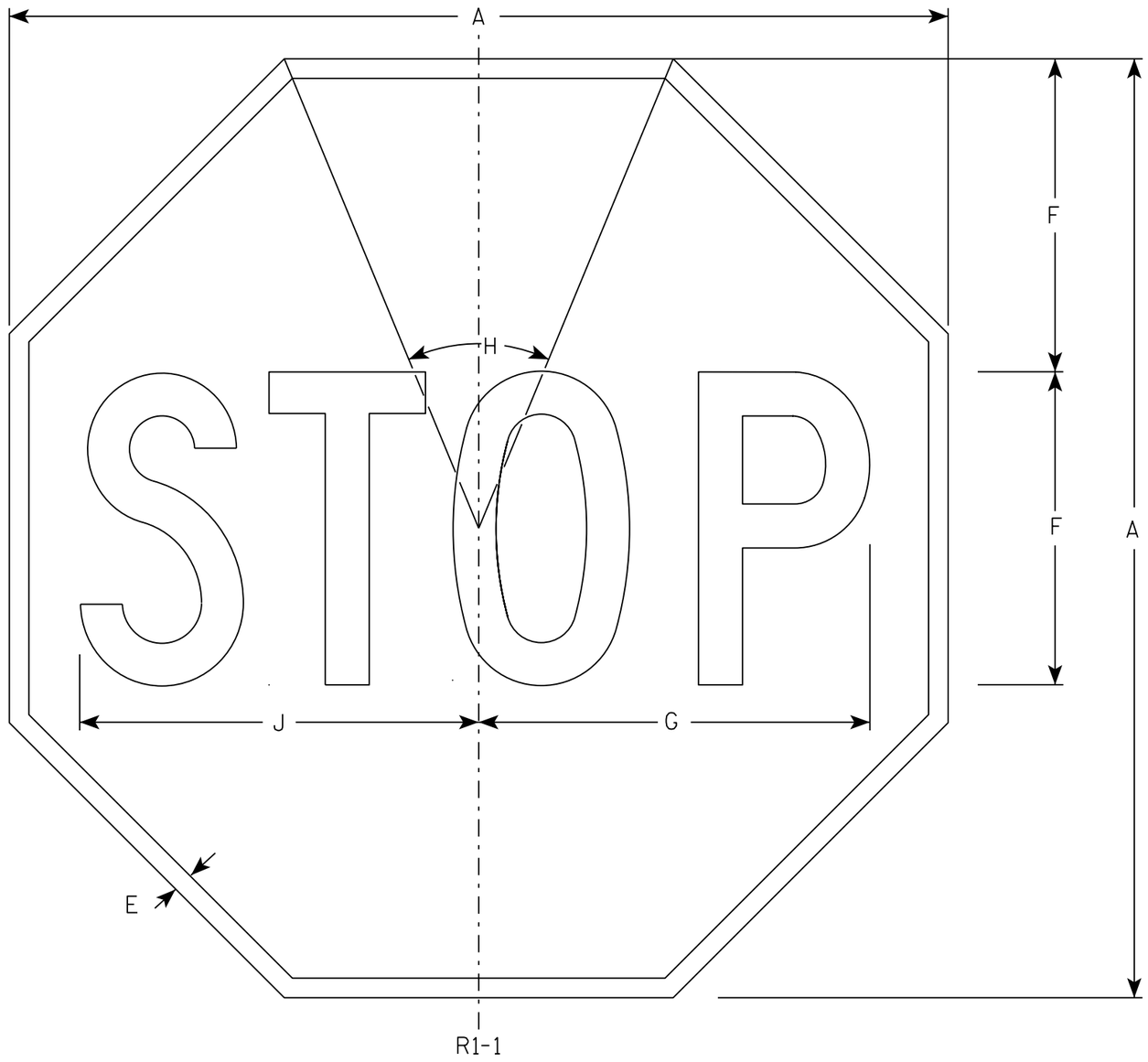
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATI 256 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

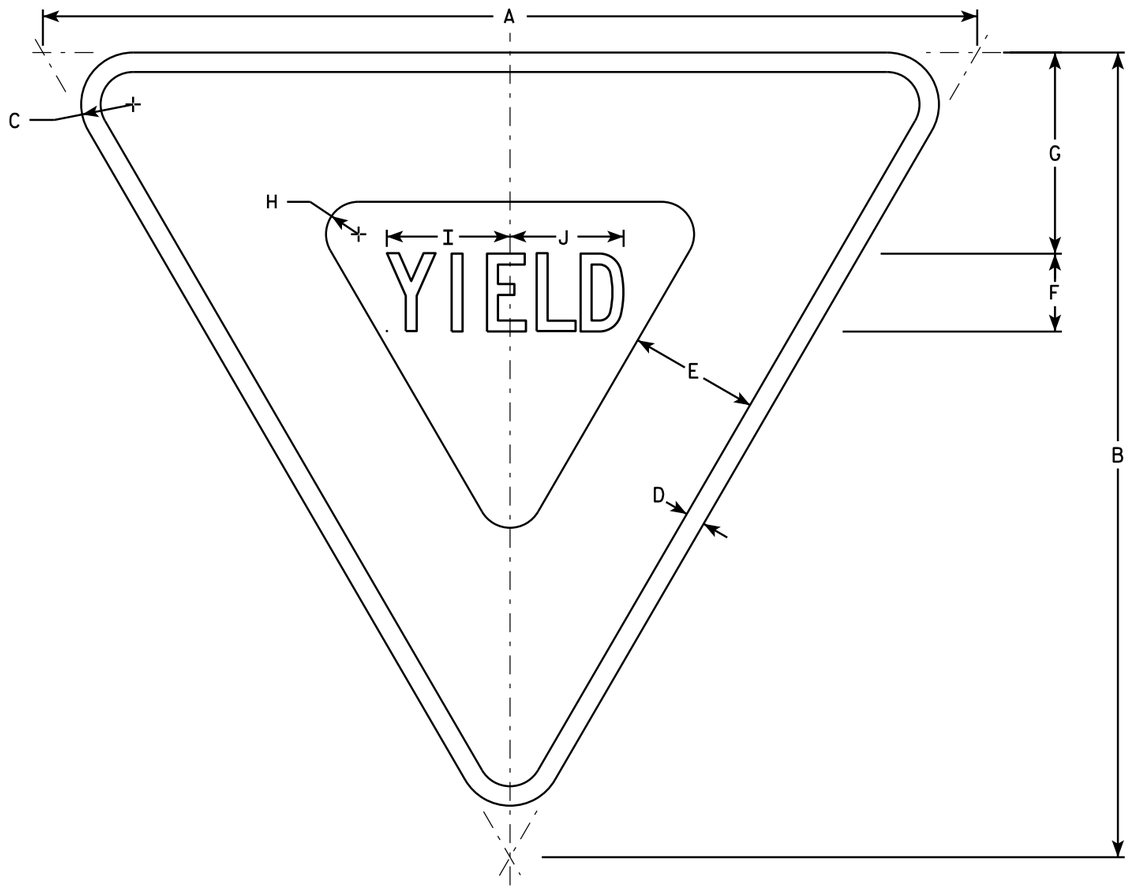
STANDARD SIGN
R1-1

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: 257	E



R1-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The border strip and word message are reflectorized red.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	26	1 1/2	5/8	4	2 1/2	6 3/8	7/8	4	3 5/8																	2.71
2S	36	31	2	3/4	5	3	7 3/4	1 1/4	4 3/4	4 3/8																	3.88
2M	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
3	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
4	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
5	60	52	3	1 1/2	8	5	13	2 1/2	7 7/8	7 1/4																	10.83
6																											
7	18	15 1/2	1	3/8	2 1/2	1 1/2	3 7/8	5/8	2 3/8	2 1/4																	0.97

STANDARD SIGN
R1-2

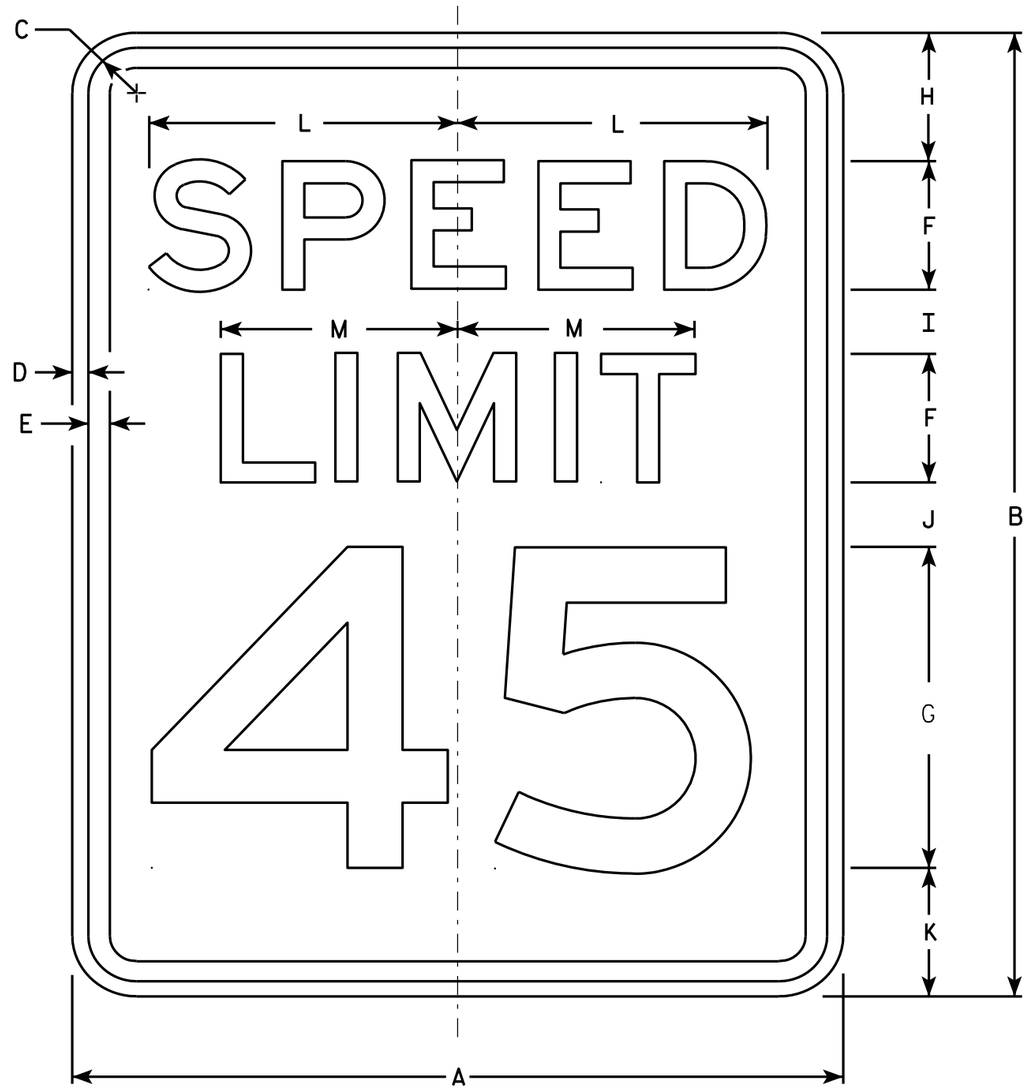
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/13/14 PLATE R1-2.12

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

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R12.DGN PLOT DATE : 13-OCT-2014 15:12 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.837526:1.000000
WISDOT/CADDS SHEET 42



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

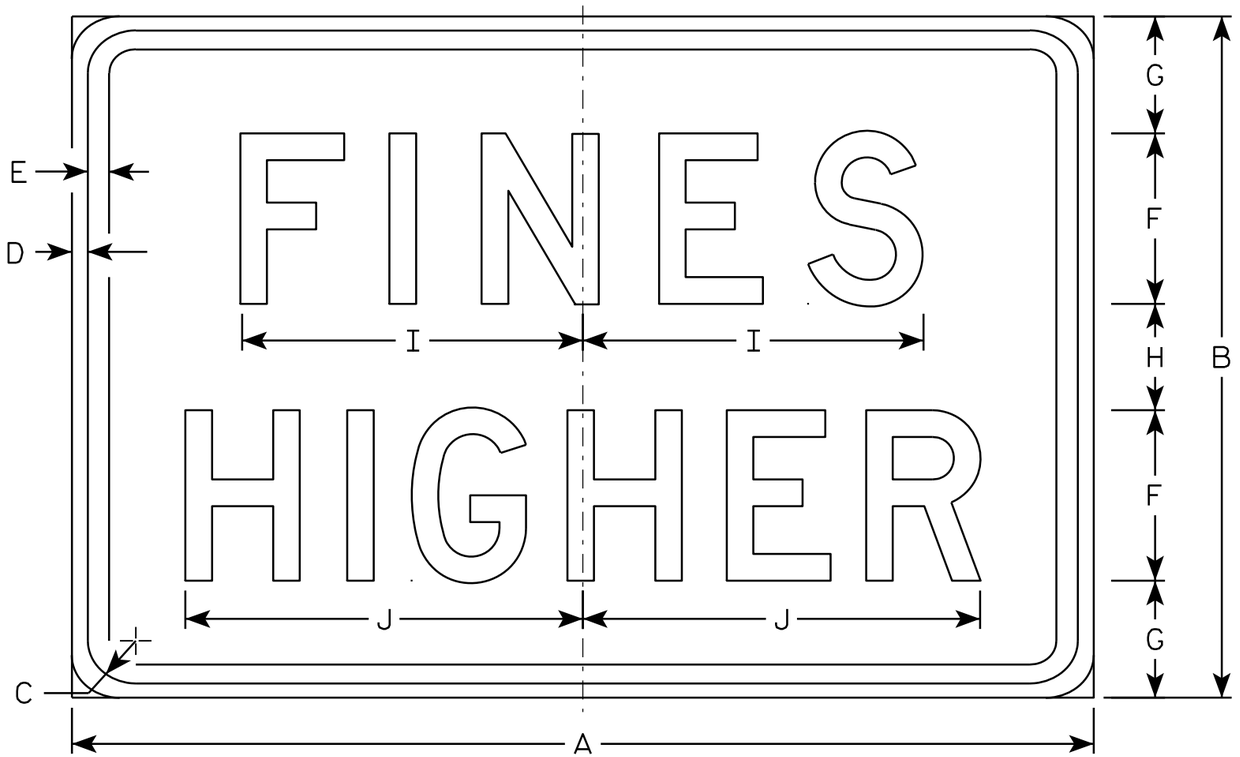
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 259 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R21.DGN PLOT DATE : 28-MAY-2010 08:32 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 4.717577:1.000000

WISDOT/CADDS SHEET 42



R2-6P

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	18	1 1/8	3/8	3/8	4	3 1/2	3	7 5/8	9 1/4																	3.0
2M	24	18	1 1/8	3/8	3/8	4	3 1/2	3	7 5/8	9 1/4																	3.0
3	36	24	1 1/8	3/8	1/2	6	4 1/8	3 3/4	12	14																	6.0
4	36	24	1 1/8	3/8	1/2	6	4 1/8	3 3/4	12	14																	6.0
5	48	36	1 3/8	1/2	5/8	8	7	6	15 1/8	19																	12.0

STANDARD SIGN
R2-6P

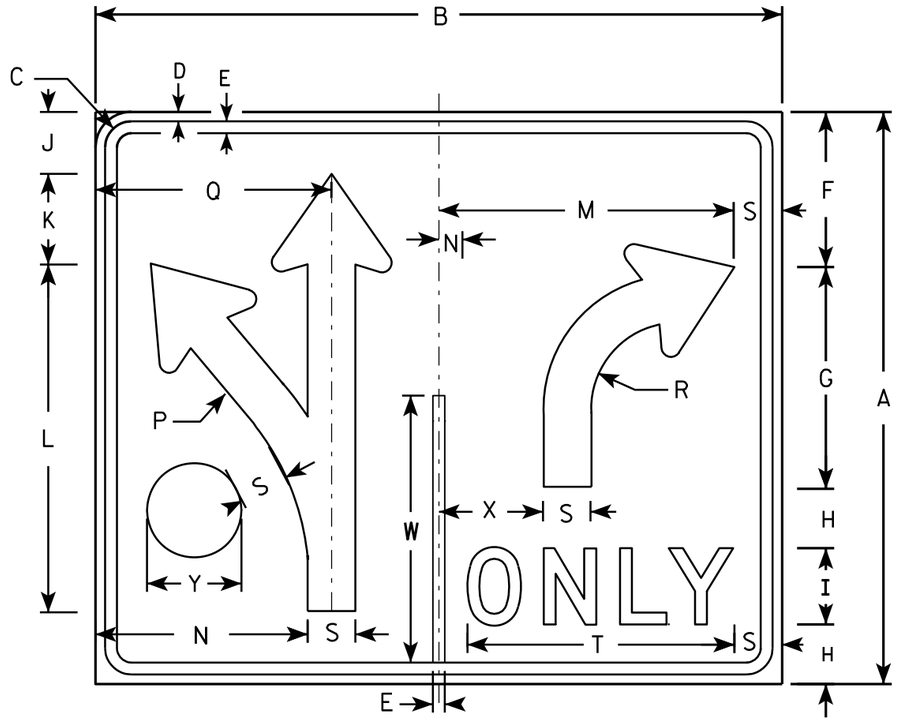
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

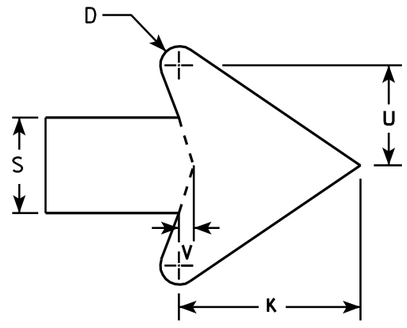
DATE 12/20/10 PLATE NO. R2-6P.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 260 | E

7



R3-8DD



ARROW DETAIL

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. R3-8B & R3-8C is the same but reversed.

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	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	3 1/4	4 3/4	18 1/4	15 1/2	1 1/4		13 1/4	12 3/8	4 1/2	2 1/2	14	2 5/8	3/8	14	5 1/4	4 1/4		7.5
2M	30	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	3 1/4	4 3/4	18 1/4	15 1/2	1 1/4		13 1/4	12 3/8	4 1/2	2 1/2	14	2 5/8	3/8	14	5 1/4	4 1/4		7.5
3																											

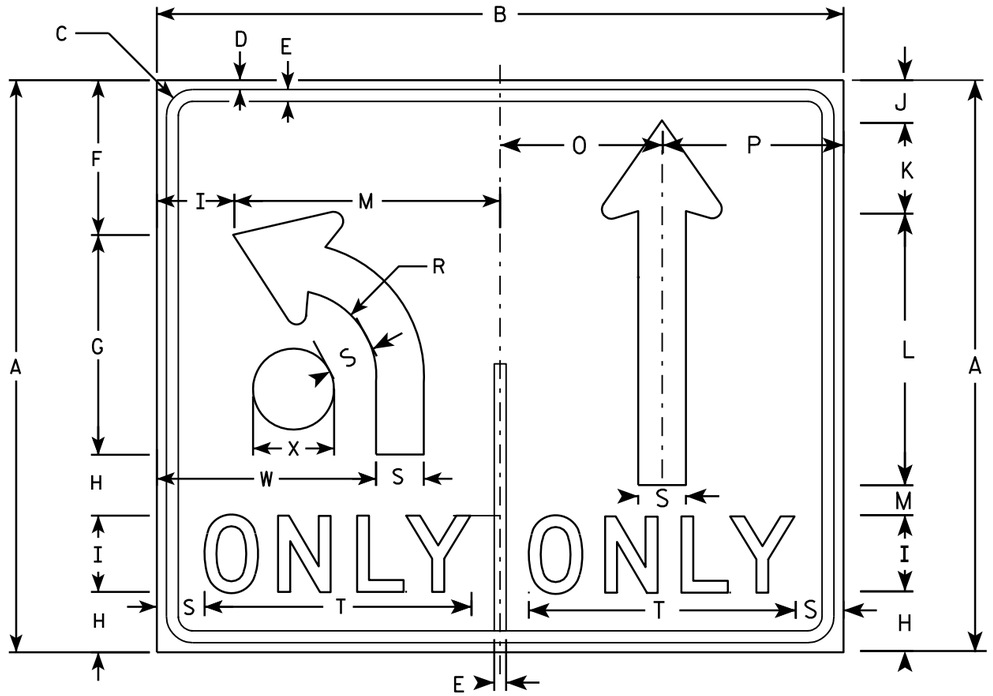
STANDARD SIGN
R3-8DD

WISCONSIN DEPT OF TRANSPORTATION

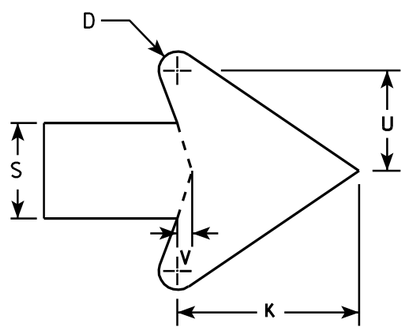
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-8DD.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 261	E



R3-8JJ



ARROW DETAIL

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - WHITE
   Message - BLACK
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	2 1/4	4 3/4	14 1/4	1 5/8	14	8 1/2	9 1/2		4 1/2	2 1/2	14	2 5/8	3/8	11 1/2	4 1/4			7.5
2M	30	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	2 1/4	4 3/4	14 1/4	1 5/8	14	8 1/2	9 1/2		4 1/2	2 1/2	14	2 5/8	3/8	11 1/2	4 1/4			7.5
3																											
4																											
5																											

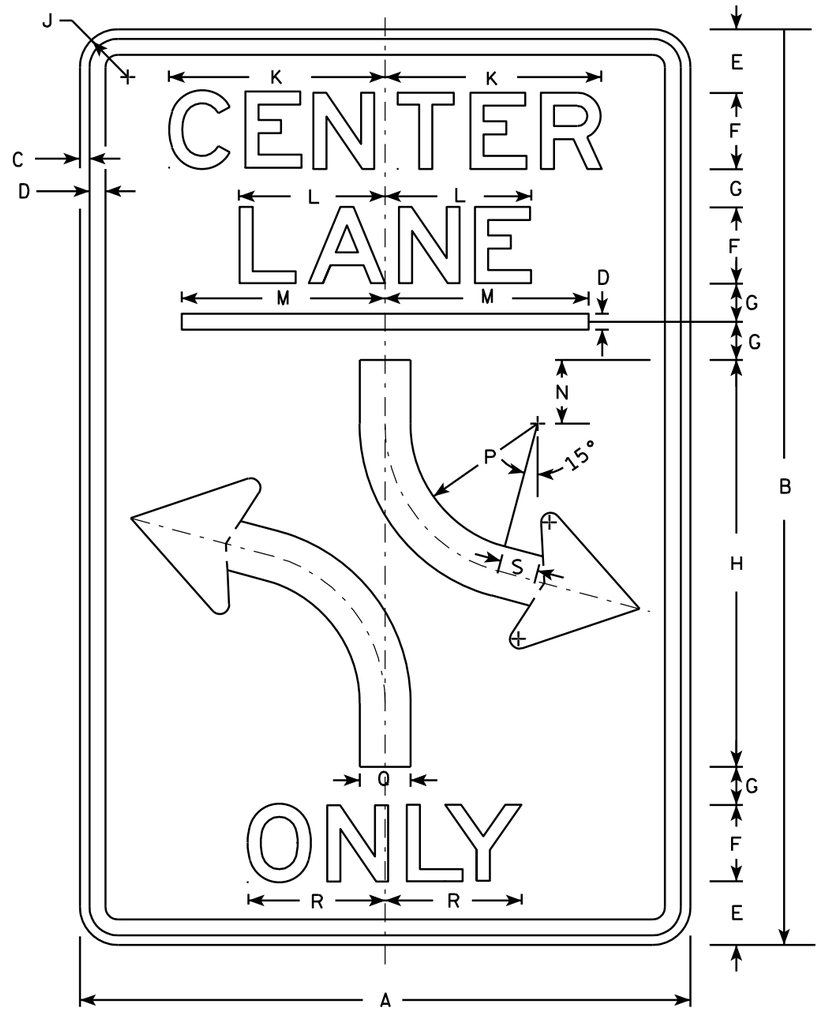
STANDARD SIGN
R3-8JJ

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/2011 PLATE NO. R3-8JJ.2

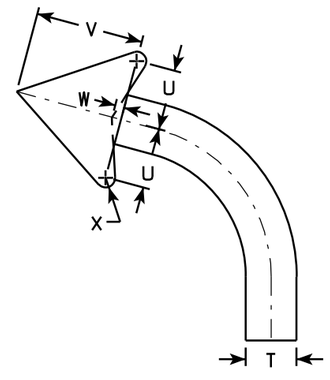
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 262	E



R3-9B

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



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	24	36	3/8	1/2	2 1/2	3	1 1/2	16		1 1/2	8 1/2	5 3/4	8	2 1/2		6	2	5 1/8	1 1/2		2 3/8	4 3/8	3/8				6.0
2M	24	36	3/8	1/2	2 1/2	3	1 1/2	16		1 1/2	8 1/2	5 3/4	8	2 1/2		6	2	5 1/8	1 1/2		2 3/8	4 3/8	3/8				6.0
3	36	48	5/8	7/8	3 1/2	5	1 1/2	20		2 1/4	14 1/8	9 1/2	12	3		4	3	9 7/8	2		3 1/2	6 1/8	1/2				12.0
4																											
5																											

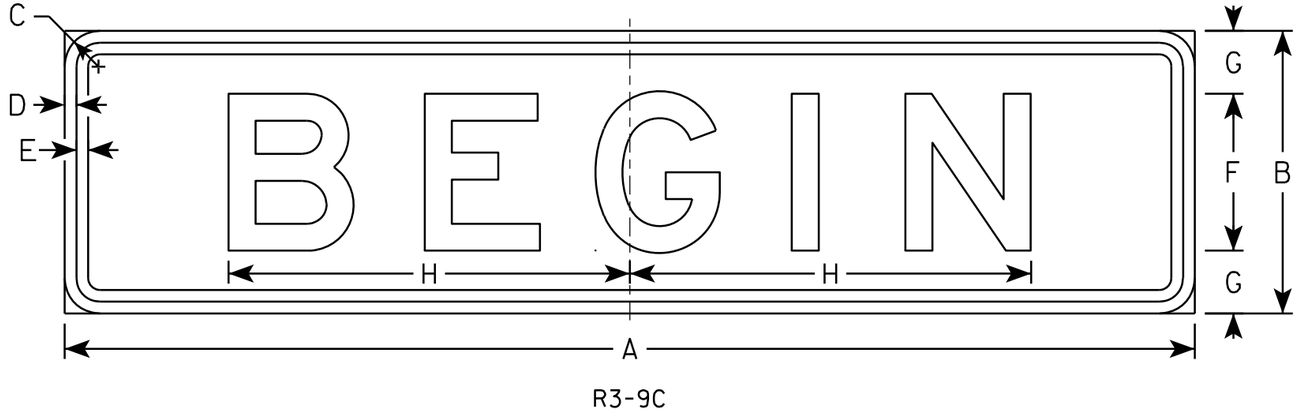
STANDARD SIGN
R3-9B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/24/2011 PLATE NO. R3-9B.5

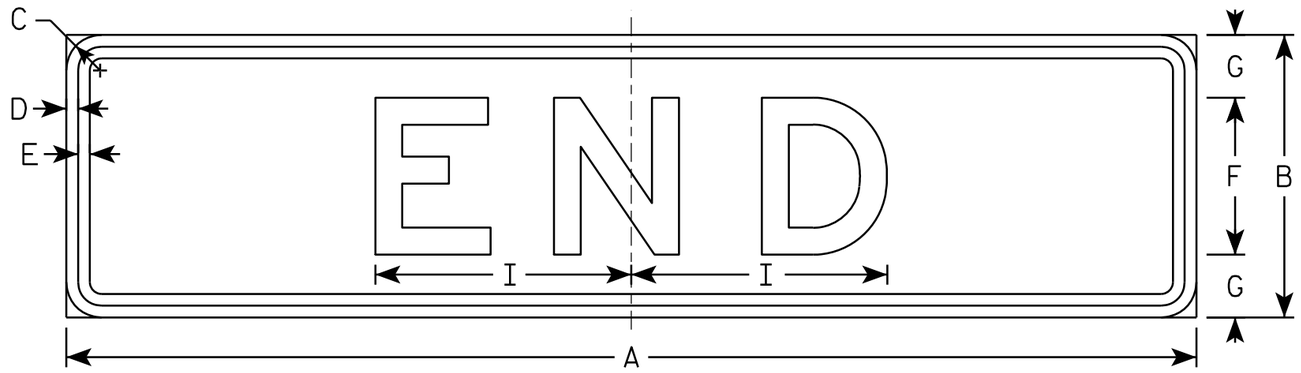
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 263	E



R3-9C

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R3-9D

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	6	1 1/8	3/8	3/8	3	1 1/2	7 3/4	4 7/8																		1.0
2M	24	6	1 1/8	3/8	3/8	3	1 1/2	7 3/4	4 7/8																		1.0
3	36	9	1 1/8	3/8	3/8	5	2	12 3/4	8 1/8																		1.86
4																											
5																											

STANDARD SIGN
R3-9C & R3-9D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/24/2011 PLATE NO. R3-9C.2

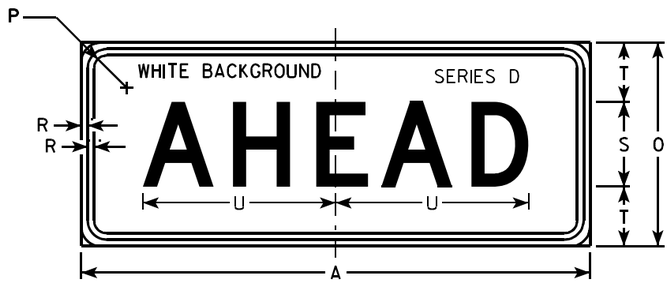
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 264	E



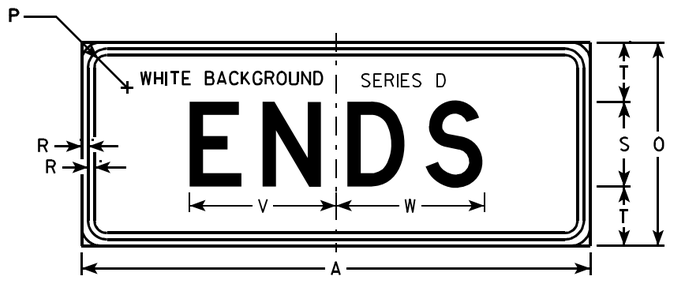
R3-17

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

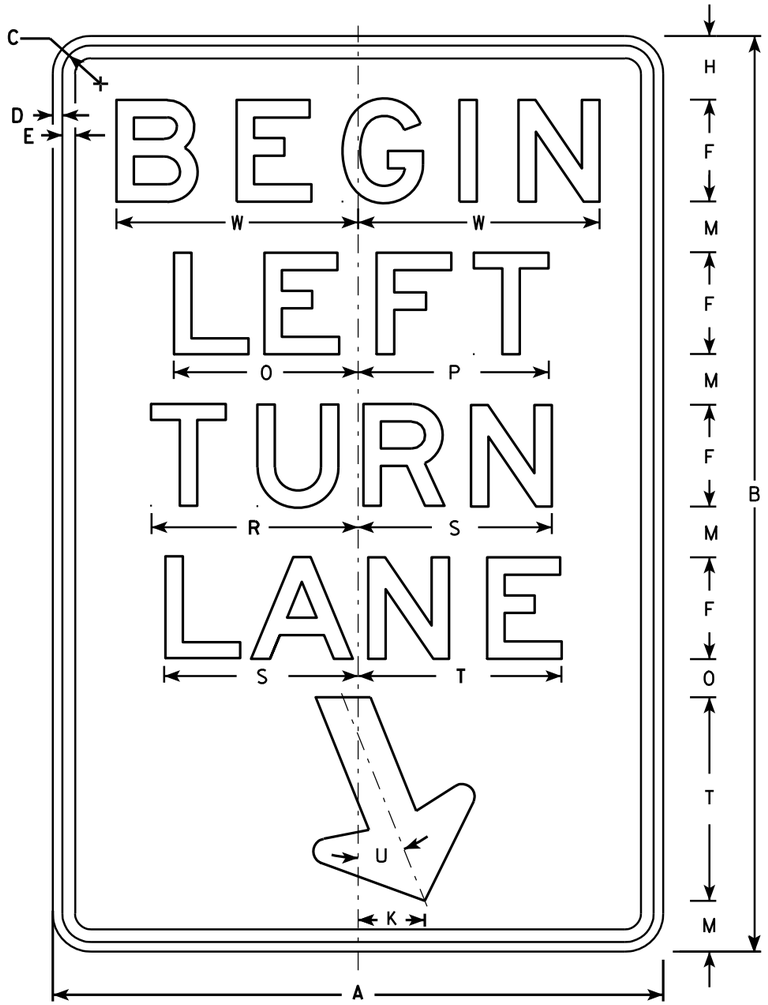
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/12/2011 PLATE NO. R3-17.2

PROJECT NO:

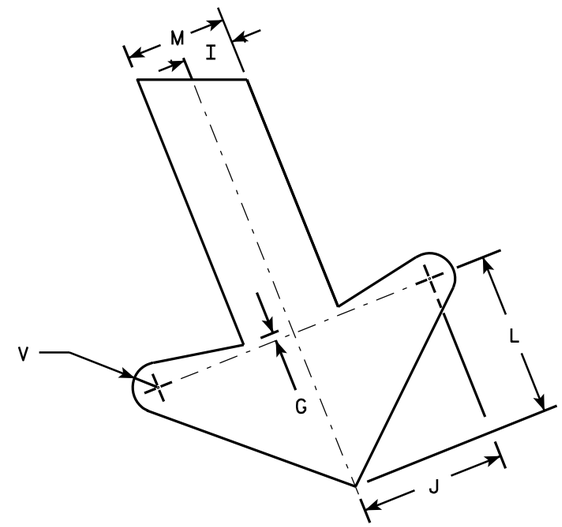
SHEET NO: 265 E



R3-20L

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



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	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	10 7/8	11 1/4		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

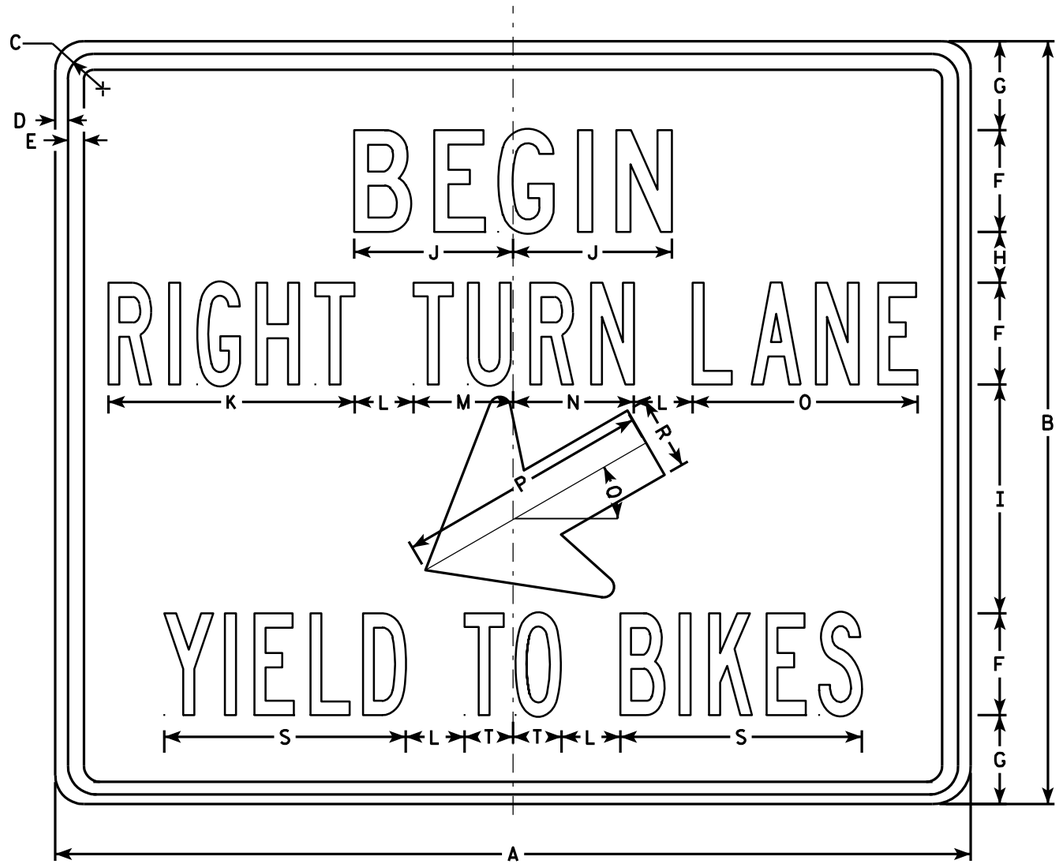
STANDARD SIGN
R3-20L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20L.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 266 | E



R4-4

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series C
   Lines 2 & 3 are Series B

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36	30	1 3/8	1/2	5/8	4	3 1/2	2	9	6 1/4	9 3/4	2 3/8	3 7/8	4 3/4	8 7/8	10	30°	2 7/8	9 1/2	1 7/8							7.5
2M	36	30	1 3/8	1/2	5/8	4	3 1/2	2	9	6 1/4	9 3/4	2 3/8	3 7/8	4 3/4	8 7/8	10	30°	2 7/8	9 1/2	1 7/8							7.5
3																											
4																											
5																											

STANDARD SIGN
R4-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew L Rauch
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-4.2

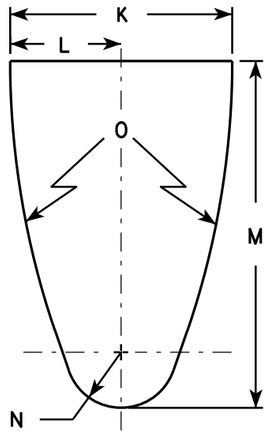
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 267	E

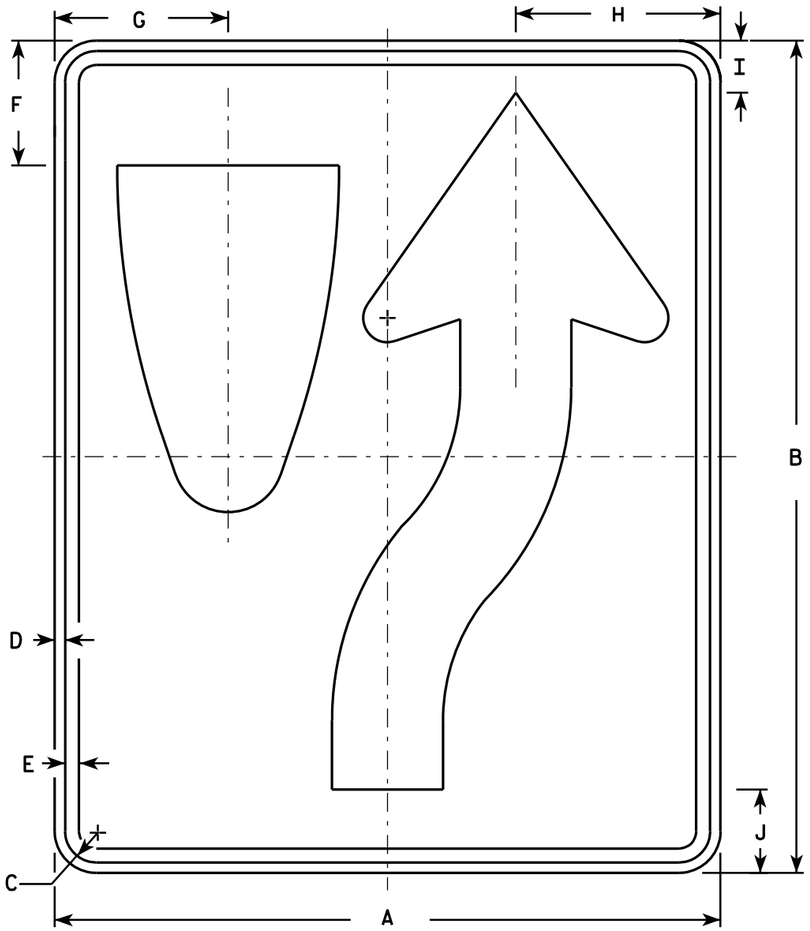
FILE NAME : C:\Users\PROJECTS\tr_stdplate\R44.DGN PLOT DATE : 25-MAR-2011 13:45 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.959043:1.000000

WISDOT/CADDS SHEET 42

7

7

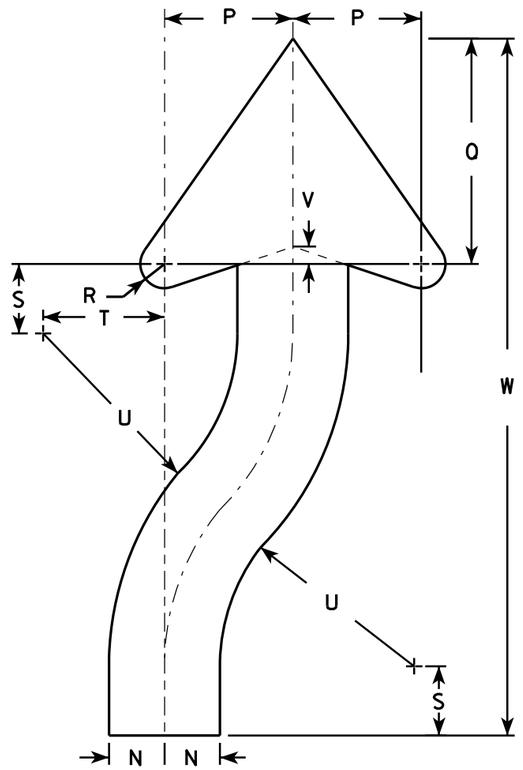




R4-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
4. R4-8 is the same as R4-7 except Legend is reversed.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

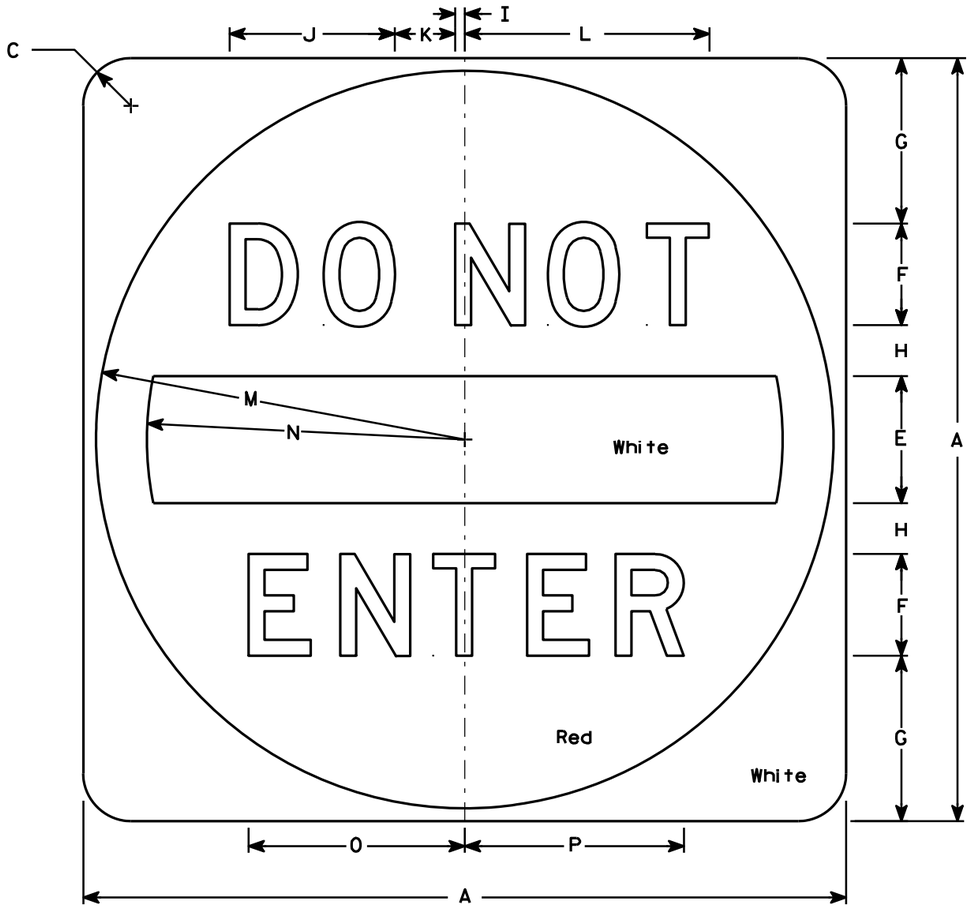
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-7.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 268	E



R5-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See detail
   Message - White - Type H Reflective
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but when base material is metal, the cornors 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	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											6.26
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

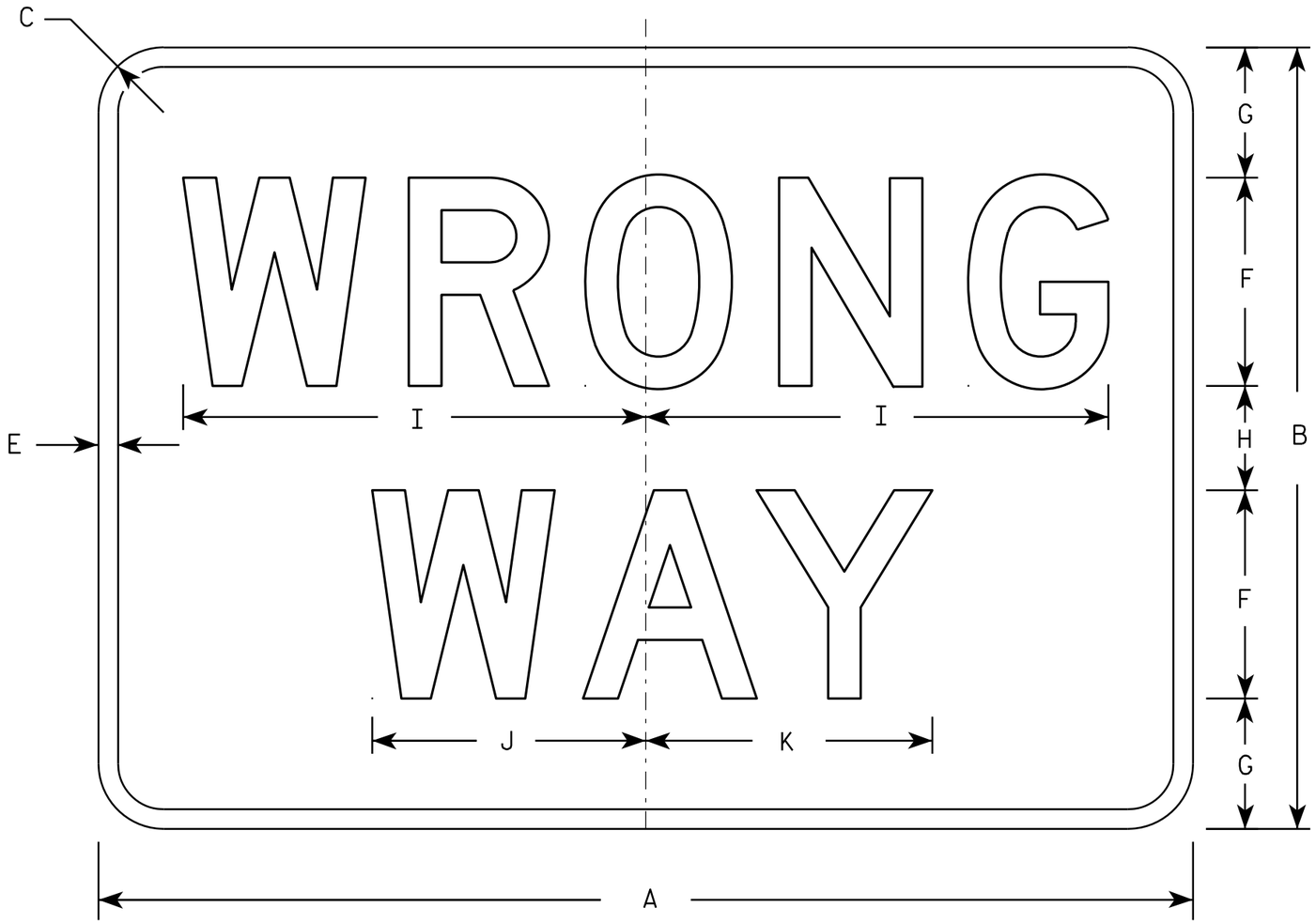
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1.15

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 269 | 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

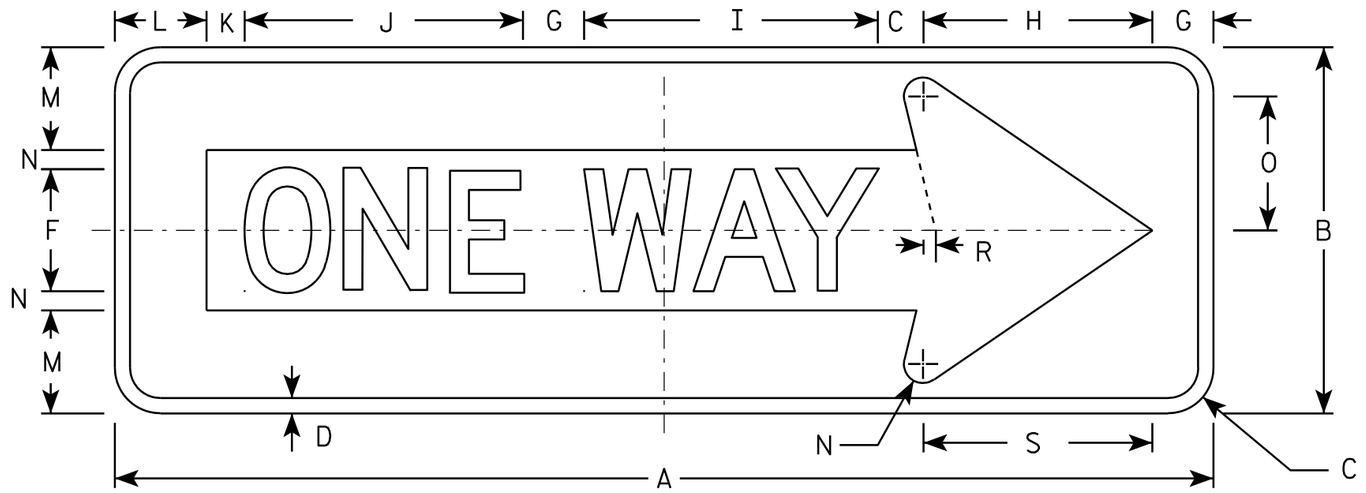
STANDARD SIGN
R5-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1A.2

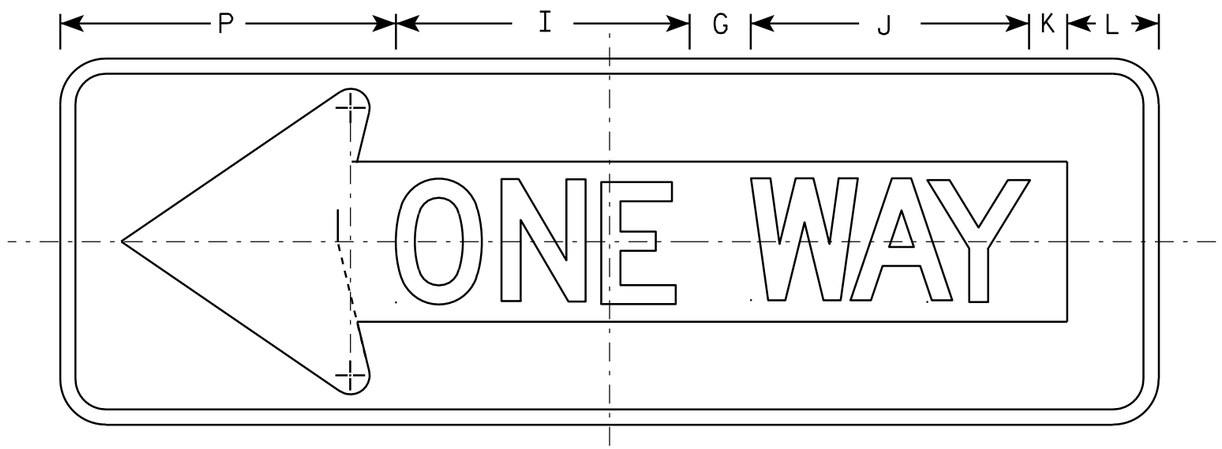
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 270 | E



R6-1R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - BLACK
   Message - BLACK LEGEND & WHITE ARROW & BORDER
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.



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 ½	½		4	2	7 ½	9 ⅝	9 ⅛	1 ¼	3	3 ⅜	⅝	4 ⅜	11		⅜	7 ½								3.0
2M	54	18	2 ¼	¾		6	3	11 ¼	14 ½	13 ⅝	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
3	54	18	2 ¼	¾		6	3	11 ¼	14 ½	13 ⅝	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
4	54	18	2 ¼	¾		6	3	11 ¼	14 ½	13 ⅝	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
5																											

STANDARD SIGN
R6-1 L & R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R6-1.2

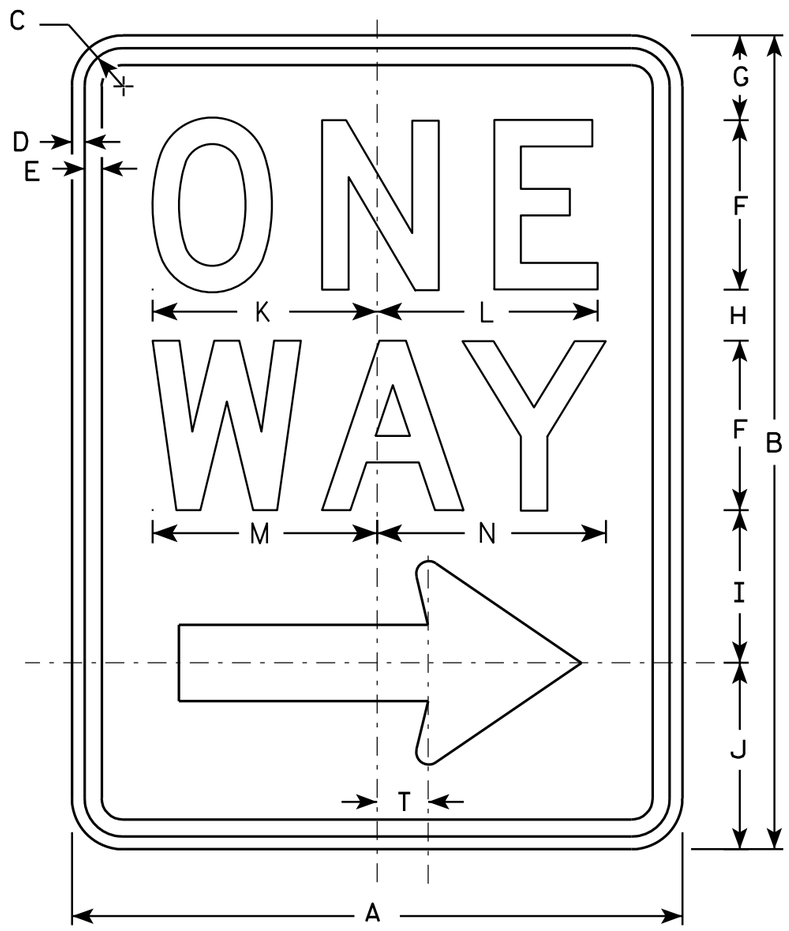
PROJECT NO:

SHEET NO: 271 E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R61.DGN PLOT DATE : 17-DEC-2010 14:11 PLOT BY : dotsja

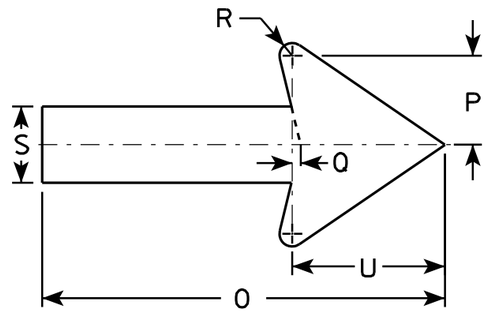
WISDOT/CADDS SHEET 42



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

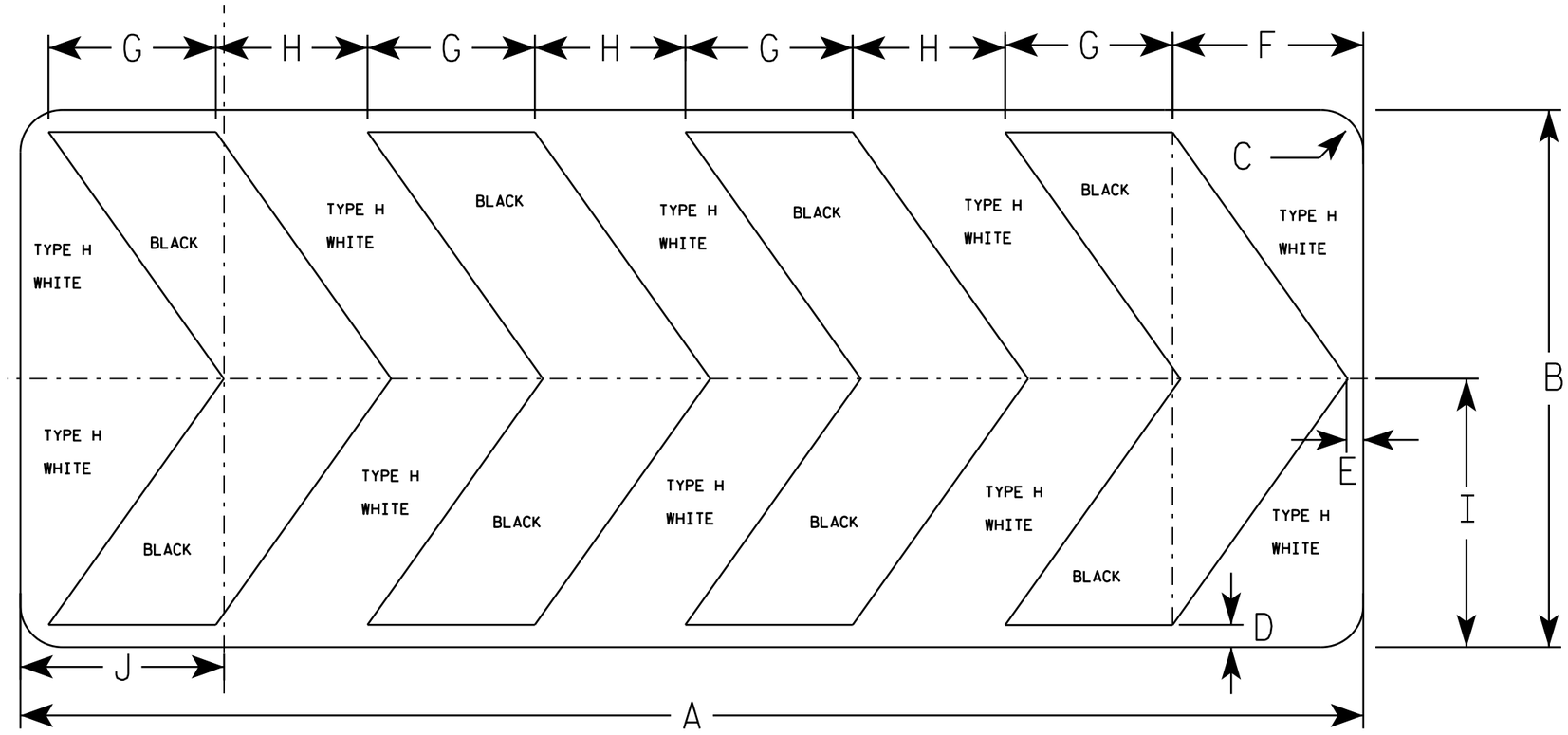
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 272	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - WHITE
   Message - BLACK
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R6-4B

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	60	24	1 7/8	1	3/4	8 1/2	7 1/2	6 3/4	12	9 1/8																	10.0
2M	60	24	1 7/8	1	3/4	8 1/2	7 1/2	6 3/4	12	9 1/8																	10.0
3																											
4																											
5																											

STANDARD SIGN
R6-4B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/14 PLATE NO. R6-4.3

PROJECT NO: SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R64B.DGN PLOT DATE : 21-AUG-2014 15:01 PLOT BY : mscsja

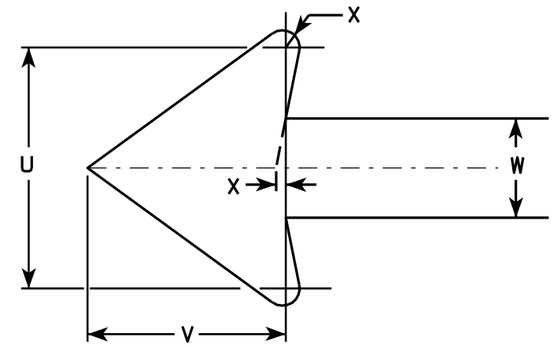
WISDOT/CADDS SHEET 42



R7-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R7-7D (double arrow)
   R7-7R (right arrow)
   R7-7L (left arrow)
6. Lines 1, 3 and 4 are Series C.
   Line 2 is Series B.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	2	1 7/8	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2	2 3/4	2 5/8	3 7/8	1 3/4	1 1/2	3/4	1/8			1.50
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 1/2	3 3/8	3 3/8	5 7/8	2 5/8	2 1/4	1 1/8	1/4			3.00
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3	4 1/8	4	7 3/4	3 1/2	3	1 1/2	1/4			5.00
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3	4 1/8	4	7 3/4	3 1/2	3	1 1/2	1/4			5.00
4																											
5																											

STANDARD SIGN
R7-7

WISCONSIN DEPT OF TRANSPORTATION

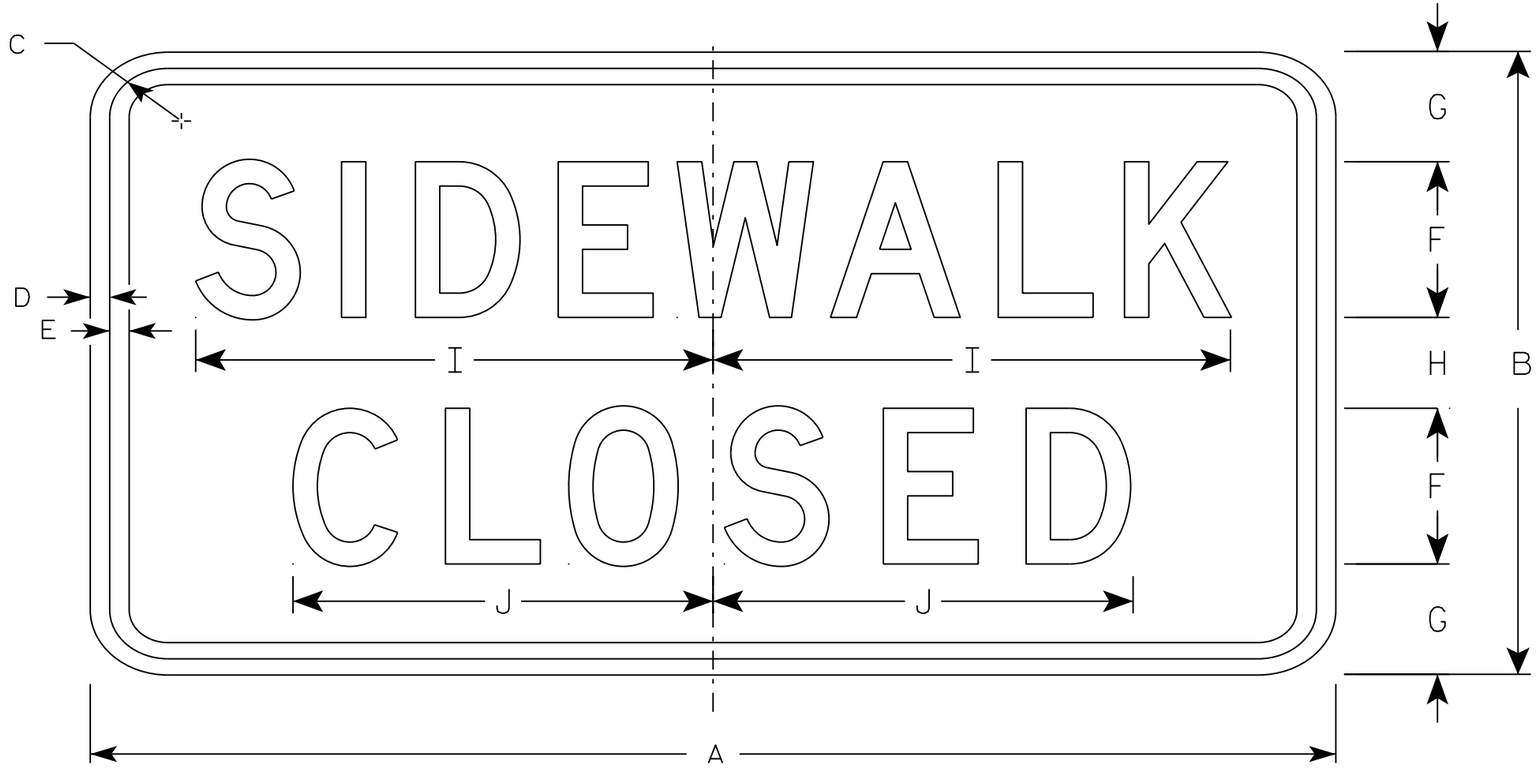
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-7.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 274 | E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R77.DGN PLOT DATE : 31-MAR-2011 10:59 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 3.476110:1.000000
WISDOT/CADDS SHEET 42



R9-9

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. Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 3/4	1/2	1/2	3	2 1/8	1 3/4	10	8 1/8																	2.0
2M	24	12	1 3/4	1/2	1/2	3	2 1/8	1 3/4	10	8 1/8																	2.0
3	30	18	1 3/4	1/2	1/2	4	3 1/2	3	12 1/2	10 1/4																	3.75
4																											
5																											

STANDARD SIGN
R9-9

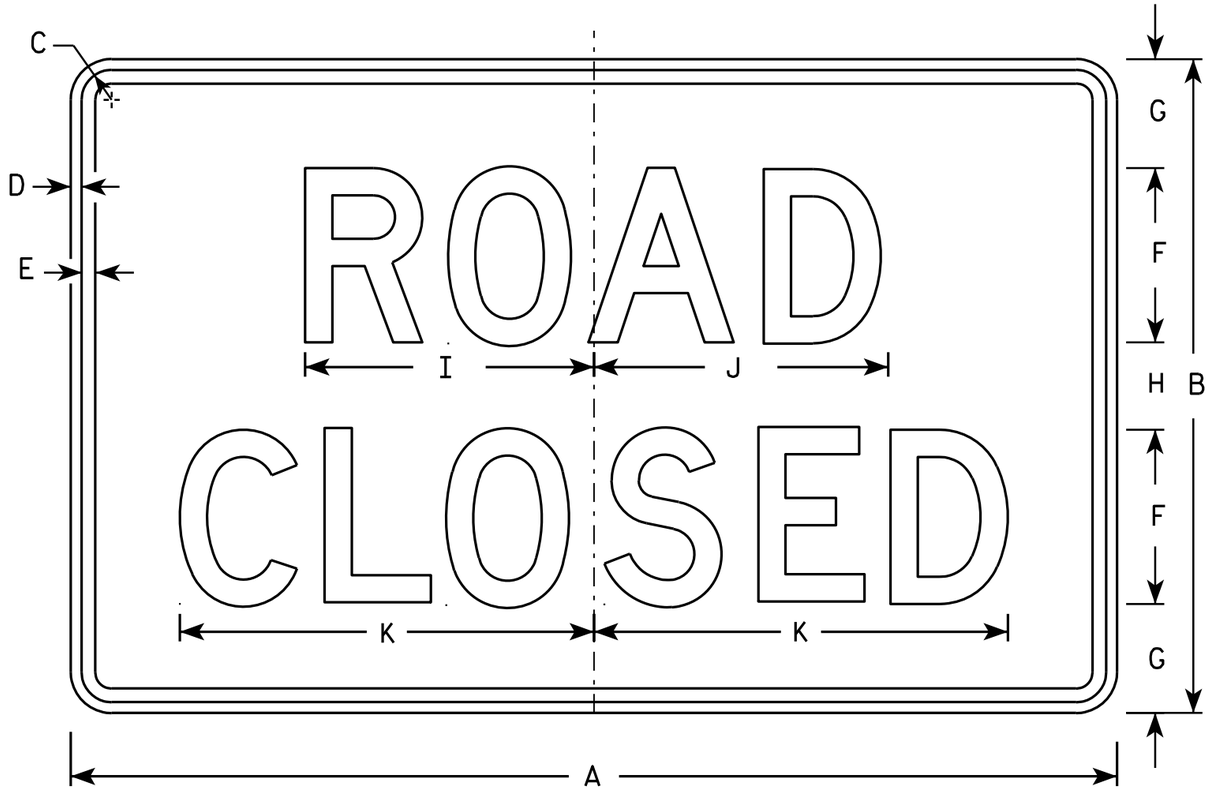
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/11/16 PLATE 275 R9-9.6

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

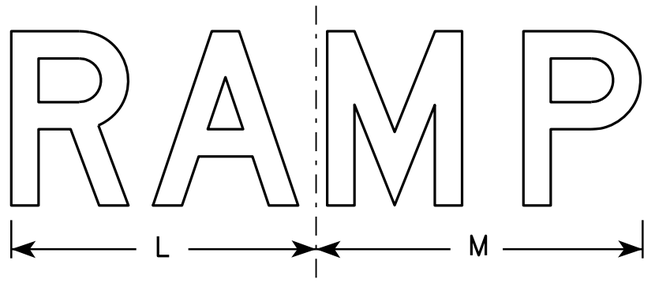
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R99.DGN PLOT DATE : 11-AUG-2016 11:33 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 2.918761:1.000000



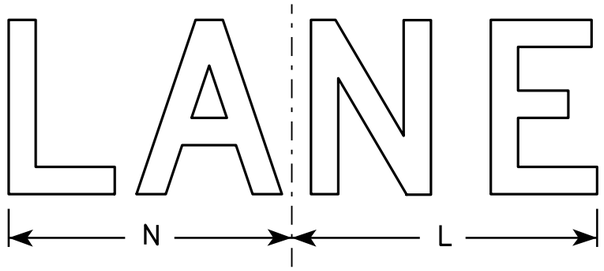
R11-2

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

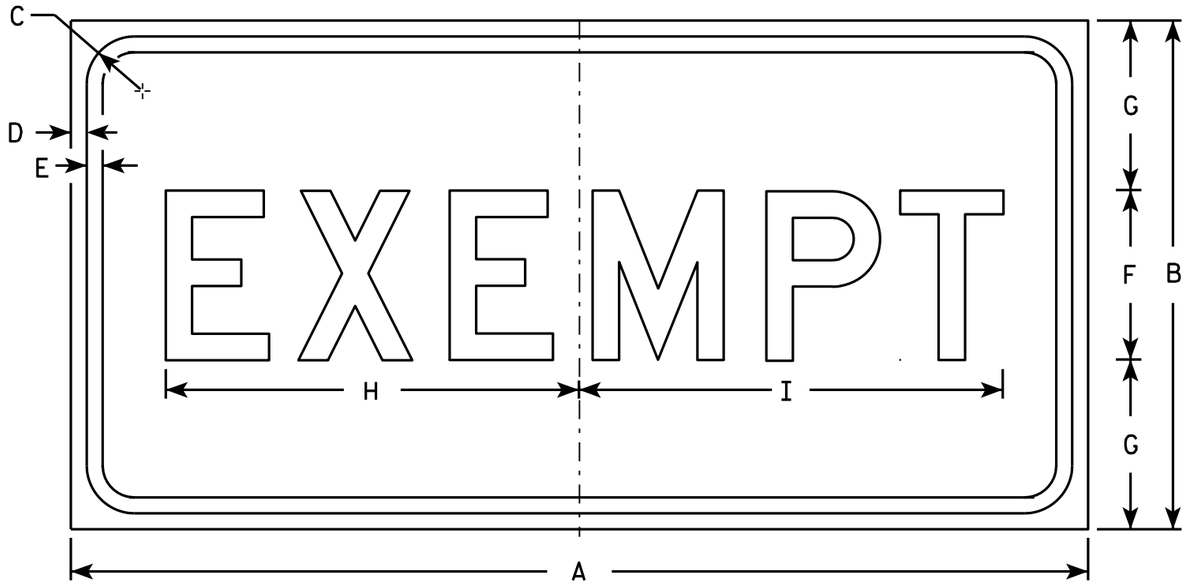
STANDARD SIGN
R11-2

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: 276	E



R15-3
and
W10-1A

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See Note 5
   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. Background - R15-3 is White.
   W10-1A is Yellow.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/8	3/8	3/8	4	4	9 3/4	10																		2
2M	24	12	1 1/8	3/8	3/8	4	4	9 3/4	10																		2
3																											
4																											
5																											

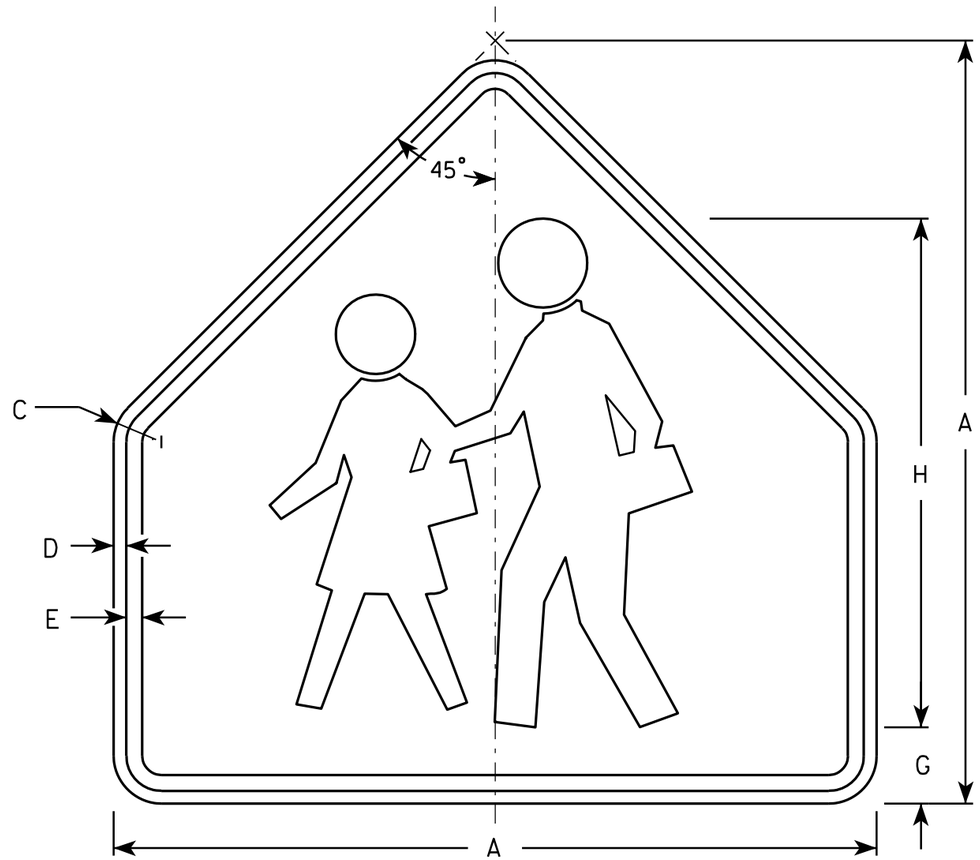
STANDARD SIGN
R15-3 & W10-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/15/11 PLATE NO. R15-3.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 277	E



S1-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow-Green
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8		3	20																			4.69
2	36		1 5/8	5/8	3/4		3 1/2	24																			6.75
3	36		1 5/8	5/8	3/4		3 1/2	24																			6.75
4	48		2 1/4	3/4	1		4 3/4	32																			12
5																											

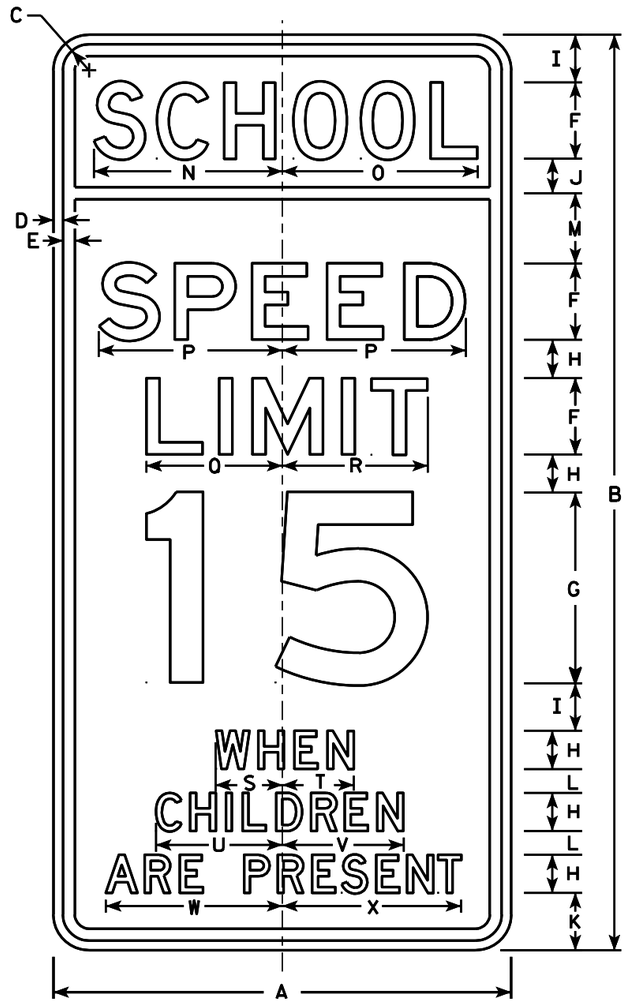
STANDARD SIGN
S1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/30/05 PLATE NO. S1-1.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 278	E



S4-51

NOTES

1. Sign is Type II - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. (See note 5).
2. Color:
   Background - See note 5
   Message - Black
3. Message Series - See note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Top panel (SCHOOL) background - Yellow Green -Type F Reflective.
   Lower panel background - White -Type H Reflective.
6. From top to bottom:
   Lines 1, 5, 6 & 7 are series D
   Lines 2, 3 & 4 are series E
7. Line 4 substitute appropriate numerals and adjust spacing to achieve proper balance.

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 1200 mm
3	900 mm X 1800 mm
4	
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.	Area m2
1																												
2	24	48	1 3/8	1/2	5/8	4	10	2	2 1/2	1 3/4	3	1 1/4	3 3/4	9 7/8	10 1/4	9 5/8	7 1/8	7 5/8	3 1/2	3 3/8	6 5/8	6 3/8	9 1/4	9 3/8			8.00	0.72
3	36	72	2 1/4	3/4	1	6	15	3	3 3/4	2 3/4	4 1/2	1 7/8	5 1/2	15	15 1/4	14 1/2	11 1/4	11 1/2	5 1/2	5 3/4	10	9 3/4	14	14 1/8			18.00	1.62
4																												
5																												

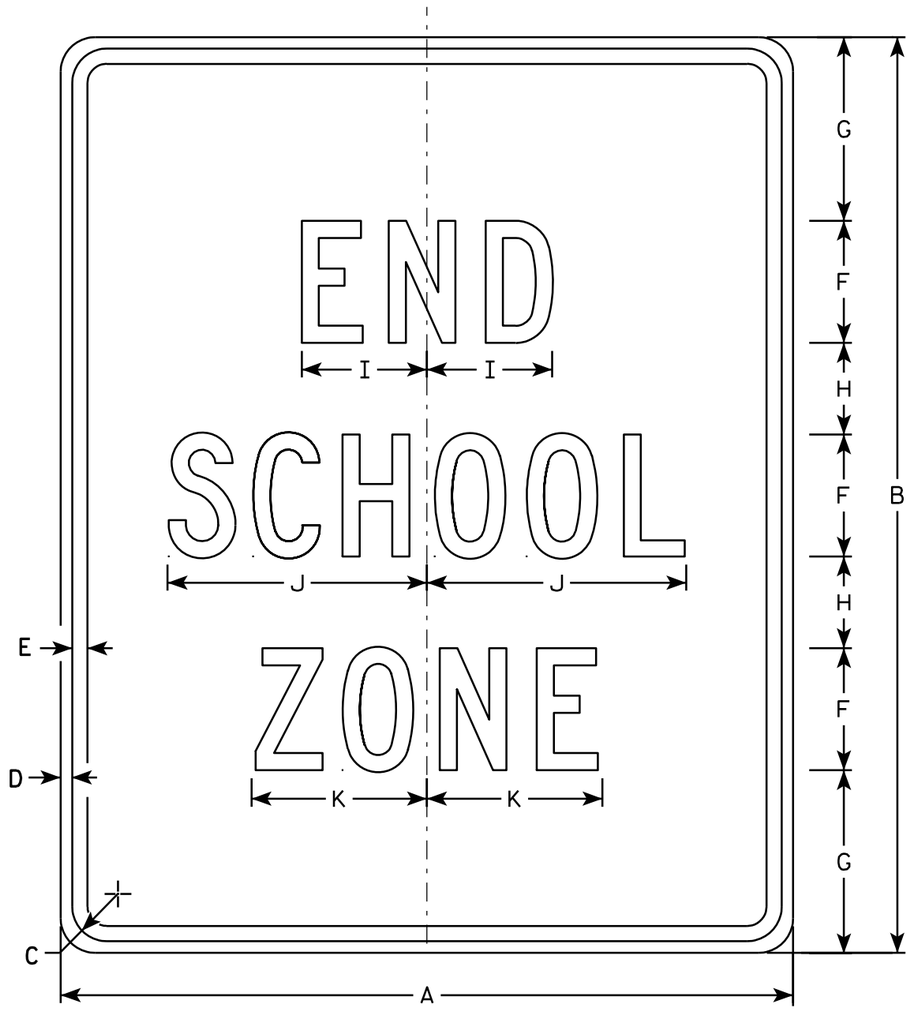
STANDARD SIGN
S4-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/26/10 PLATE NO. S4-51.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 279 | E



S5-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	30	1 1/8	3/8	1/2	4	6	3	4 1/8	8 1/2	5 3/4																5.0
3	36	42	1 5/8	5/8	3/4	6	7	5	6 1/8	12 5/8	8 5/8																10.5
4																											
5																											

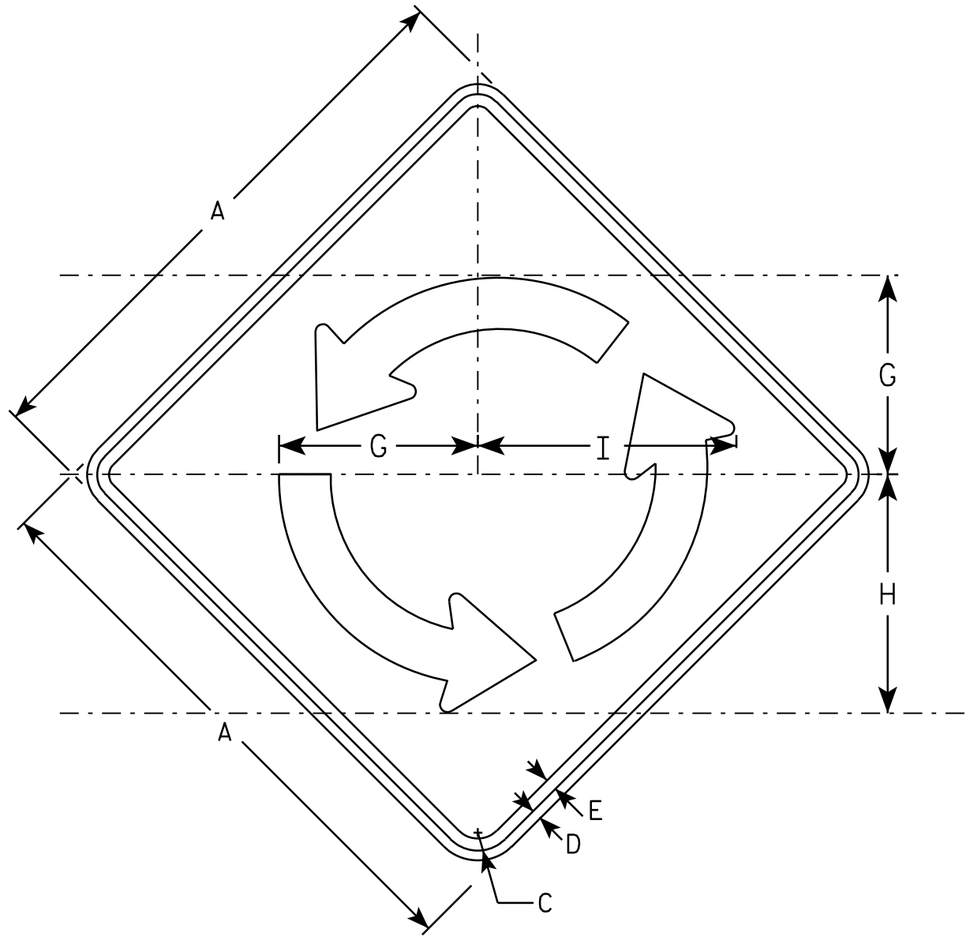
STANDARD SIGN
S5-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/8/11 PLATE NO. S5-2.2

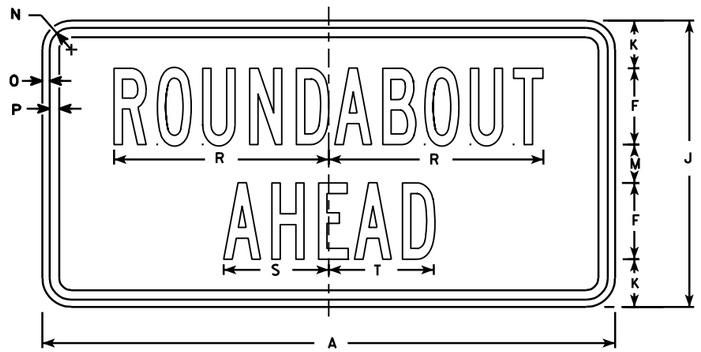
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 280 | E



W2-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW
   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.



W2-6P

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	W2-6 Area sq. ft.	W2-6P Area sq. ft.
1																										
2S	30		1 3/8	1/2	5/8	4	10 3/8	12 1/2	13 1/2	15	2 1/2		2	1 1/8	3/8	1/2		11 1/4	5 1/2	5 1/2					6.25	3.12
2M	30		1 3/8	1/2	5/8	4	10 3/8	12 1/2	13 1/2	15	2 1/2		2	1 1/8	3/8	1/2		11 1/4	5 1/2	5 1/2					6.25	3.12
3	36		1 5/8	5/8	3/4	5	12 1/2	15	16 1/4	18	2 5/8		2 3/4	1 1/8	3/8	1/2		14	7	6 3/4					9.00	4.50
4	48		2 1/4	3/4	1	6	16 5/8	20	16 1/4	24	4 3/8		3 5/8	1 3/8	1/2	5/8		17	8 1/4	8 1/4					16.0	8.0
5																										

STANDARD SIGN
W2-6

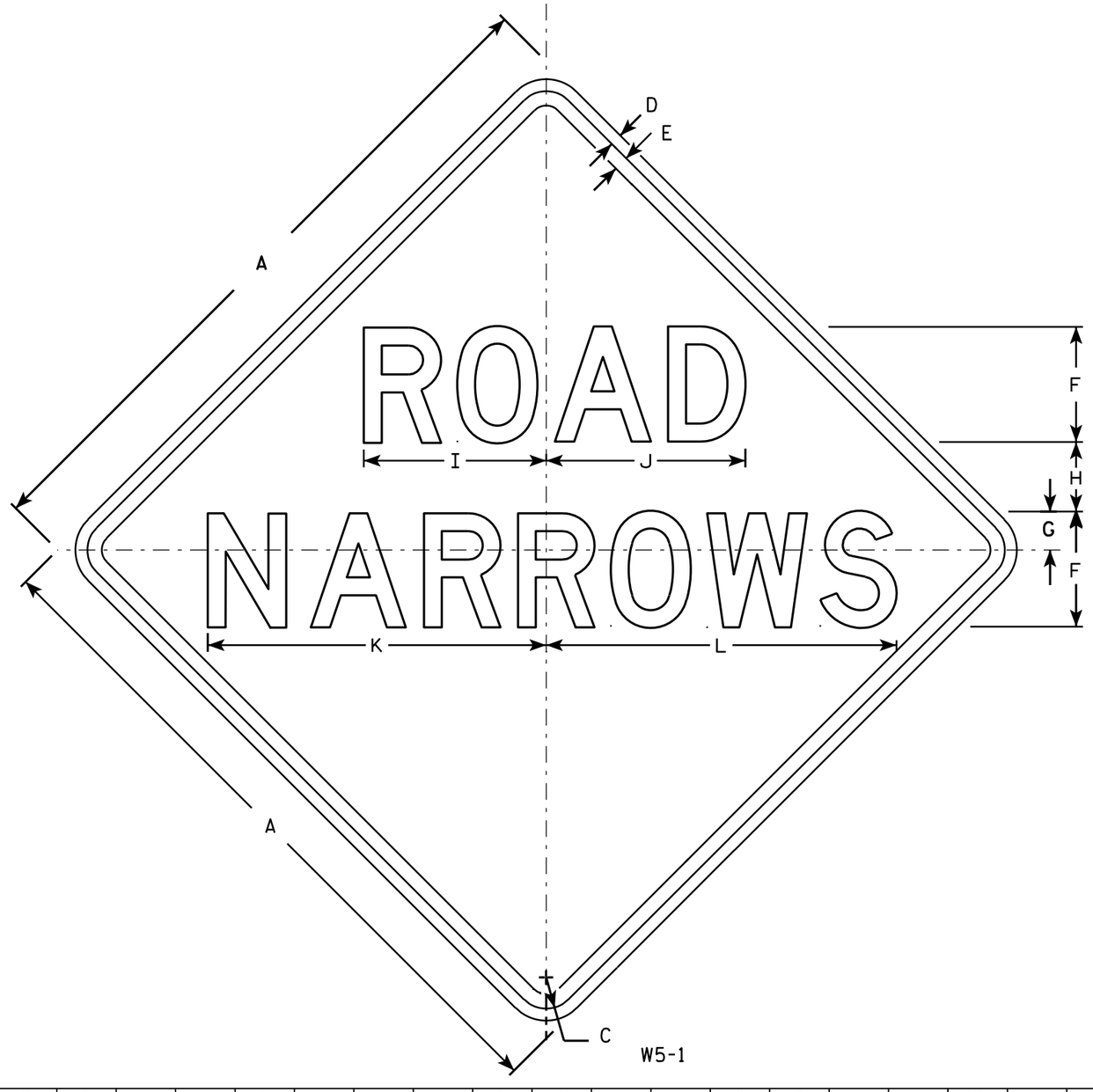
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/29/12 PLATE NO. W2-6.5

PROJECT NO:

SHEET NO: 281 E



W5-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - 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		1 3/8	1/2	5/8	5	1 3/4	3	7 7/8	8 5/8	14 3/4	15 1/8															6.25
2S	36		1 5/8	5/8	3/4	6	2	3 1/2	9 1/2	10 3/8	17 5/8	18 1/4															9.0
2M	36		1 5/8	5/8	3/4	6	2	3 1/2	9 1/2	10 3/8	17 5/8	18 1/4															9.0
3																											
4	48		2 1/4	3/4	1	8	3	4	12 3/4	13 3/4	23 1/2	24 3/8															16.0
5																											

STANDARD SIGN
W5-1

WISCONSIN DEPT OF TRANSPORTATION

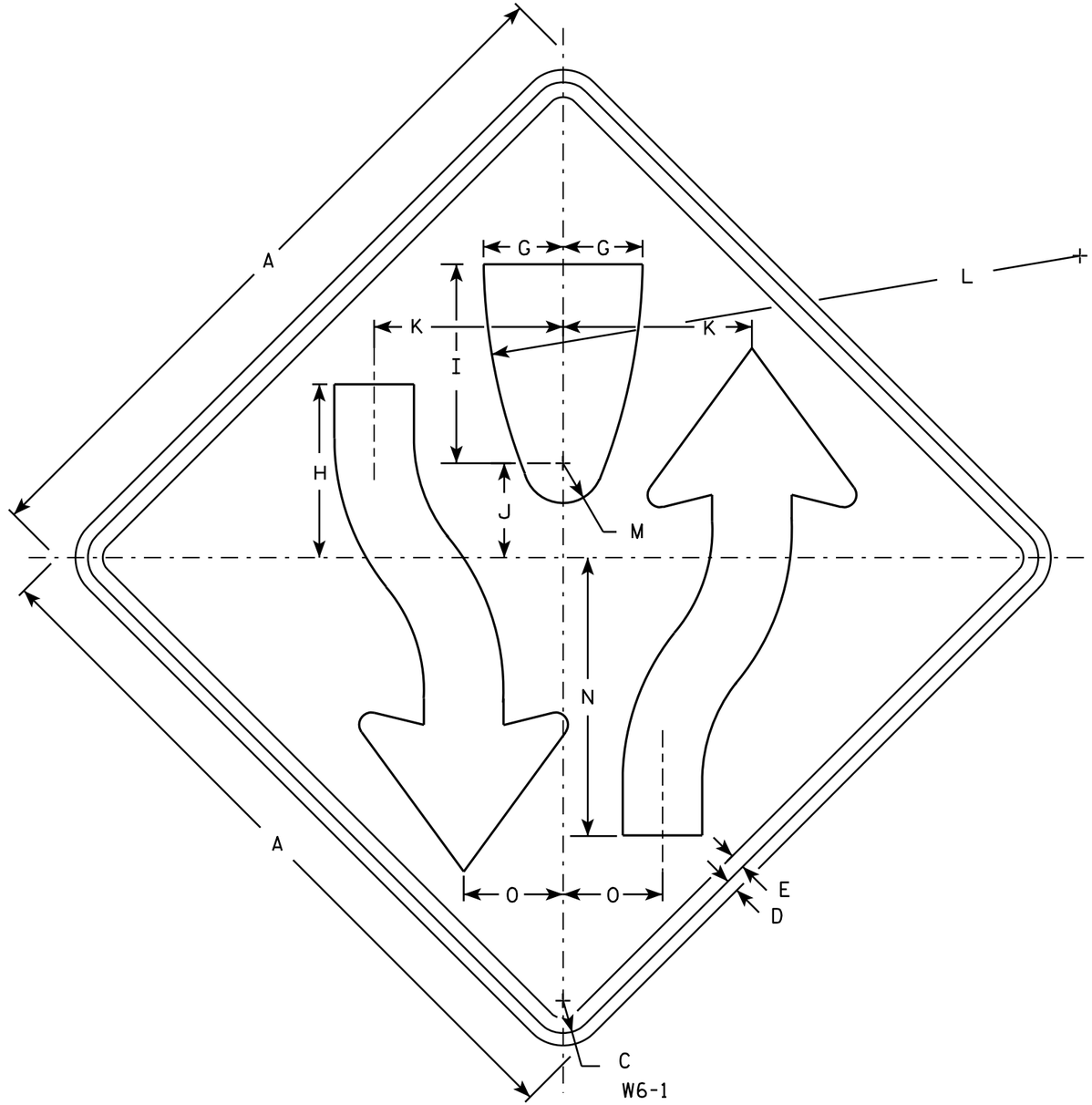
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 03/12/13 PLATE NO. W5-1.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 282 | E

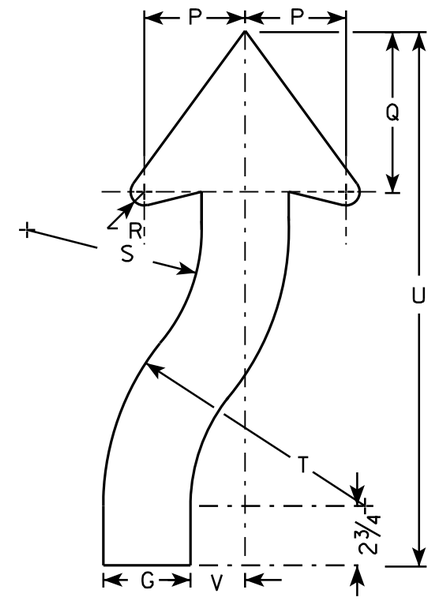
7

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W51.DGN PLOT DATE : 12-MAR-2013 12:16 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.946654:1.000000
WISDOT/CADDS SHEET 42



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.
4. W6-2 same as W6-1 but is rotated 180° when mounted.



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	30		1 3/8	1/2	5/8		3 1/4	8	8 1/4	4 1/8	7 7/8	25	1 3/4	11 5/8	4 1/8	3 7/8	6 3/4	5/8	6 5/8	9 7/8	21 5/8	2					6.25
2S	36		1 5/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
2M	36		1 5/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
3																											
4	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0
5	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0

STANDARD SIGN
W6-1 & W6-2

WISCONSIN DEPT OF TRANSPORTATION

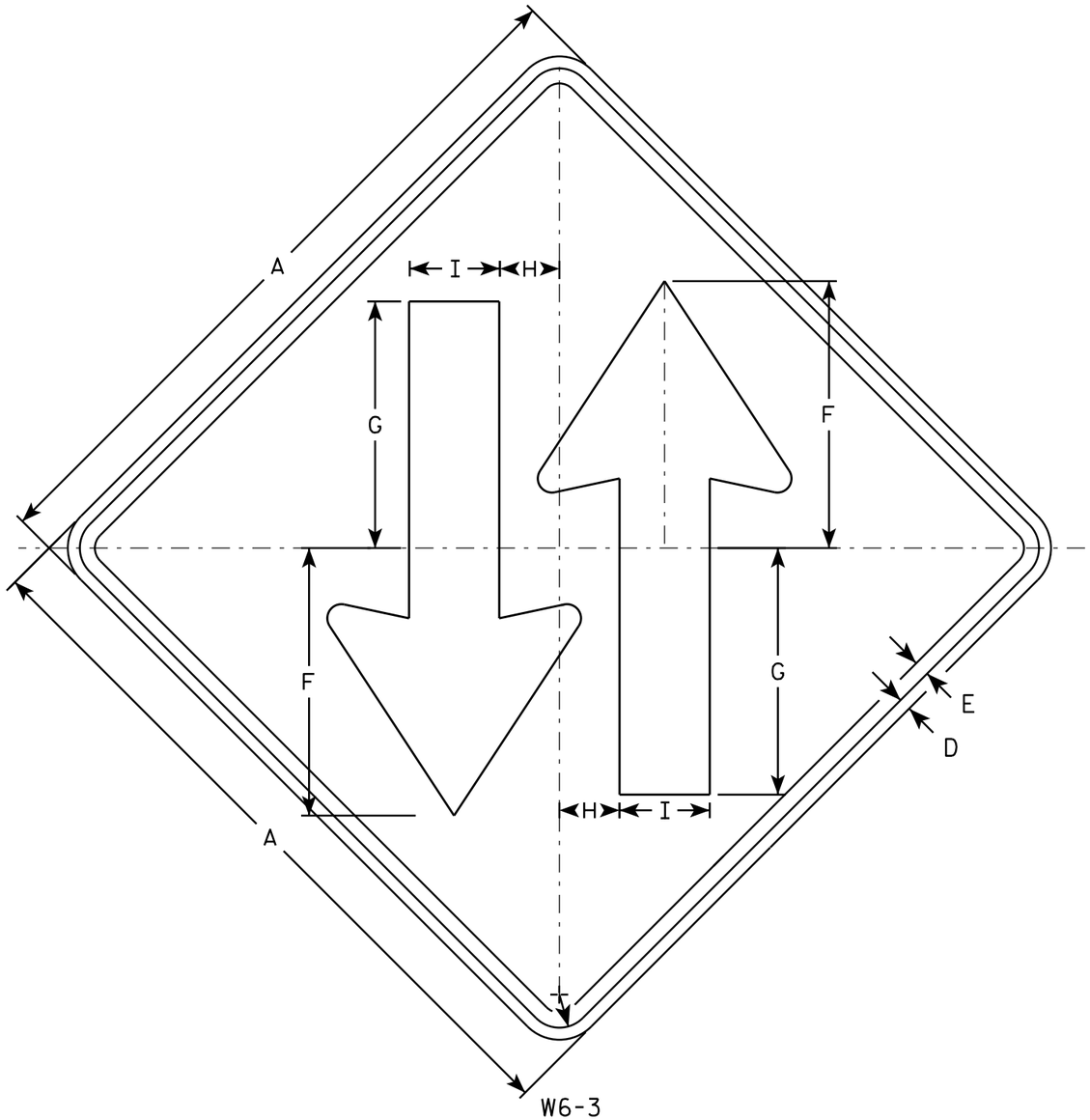
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W6-1.14

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 283	E

7

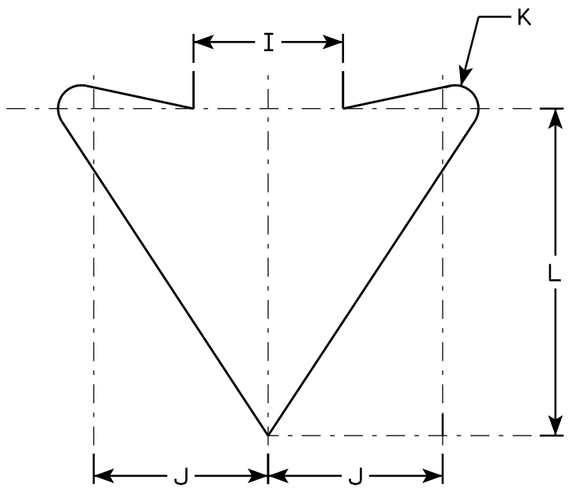
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W61.DGN PLOT DATE : 12-MAR-2013 14:02 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.946657:1.000000
WISDOT/CADDS SHEET 42



W6-3

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - 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.



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	30		1 3/8	1/2	5/8	11 1/8	10 1/4	2 1/2	3 3/4	4 3/8	5/8	8 1/4															6.25
2S	36		1 5/8	5/8	3/4	13 3/8	12 1/4	3	4 1/2	5 1/4	3/4	9 7/8															9.0
2M	36		1 5/8	5/8	3/4	13 3/8	12 1/4	3	4 1/2	5 1/4	3/4	9 7/8															9.0
3																											
4	48		2 1/4	3/4	1	17 3/4	16 3/8	4	6	7	1	13 1/8															16.0
5	48		2 1/4	3/4	1	17 3/4	16 3/8	4	6	7	1	13 1/8															16.0

STANDARD SIGN
W6-3

WISCONSIN DEPT OF TRANSPORTATION

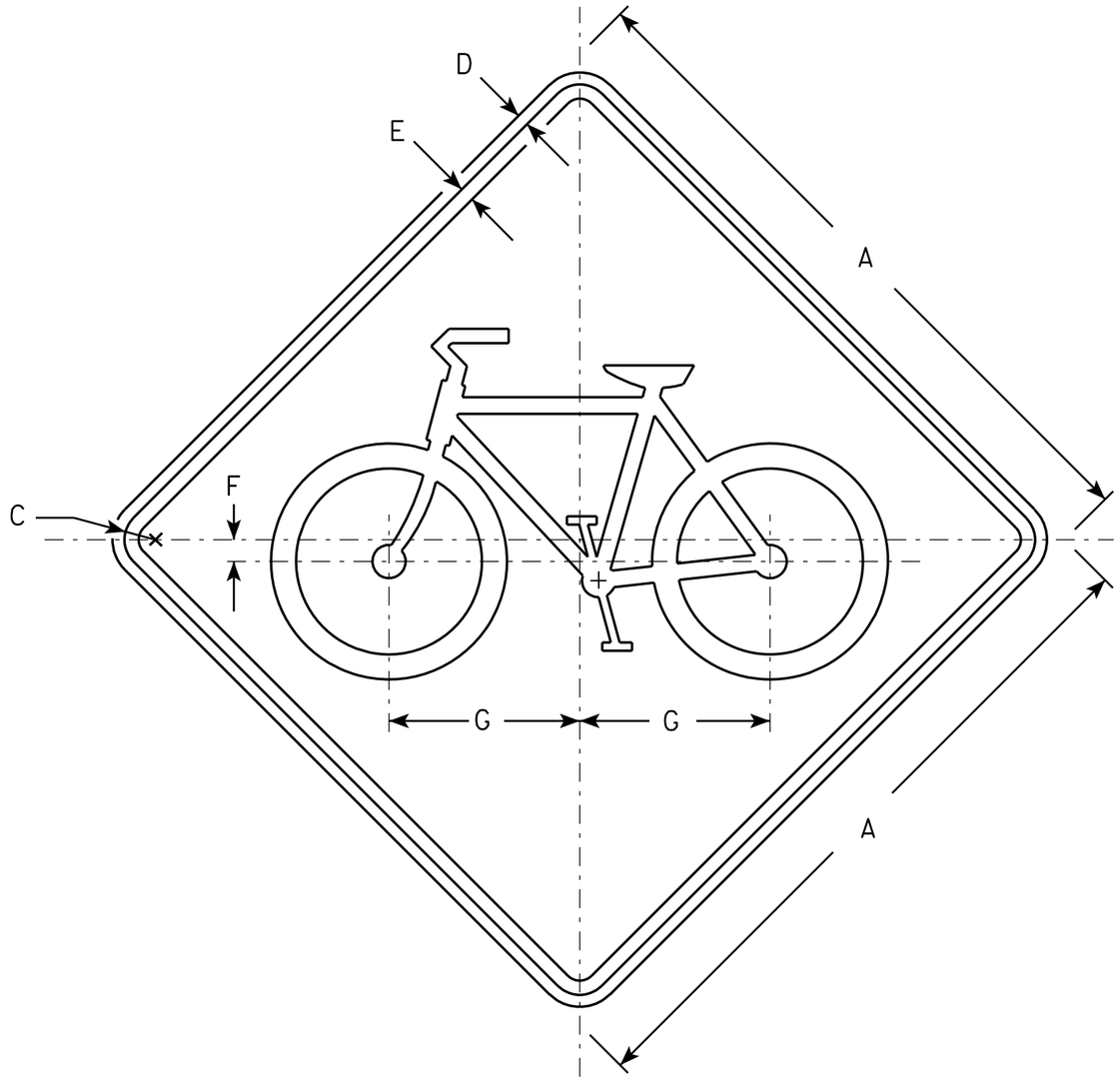
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/10/16 PLATE W6-3.11

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

7

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W63.DGN PLOT DATE : 10-MAR-2016 14:01 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.080757:1.000000
WISDOT/CADDS SHEET 42



W11-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. 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	3/4	1/2	3/4	6 5/8																				4.0
2S	30		1 3/8	1/2	5/8	1	8 1/2																				6.25
2M	36		1 5/8	5/8	3/4	1 1/4	10																				9.0
3	36		1 5/8	5/8	3/4	1 1/4	10																				9.0
4	48		2 1/4	3/4	1	1 5/8	13 3/8																				16.0
5																											16.0

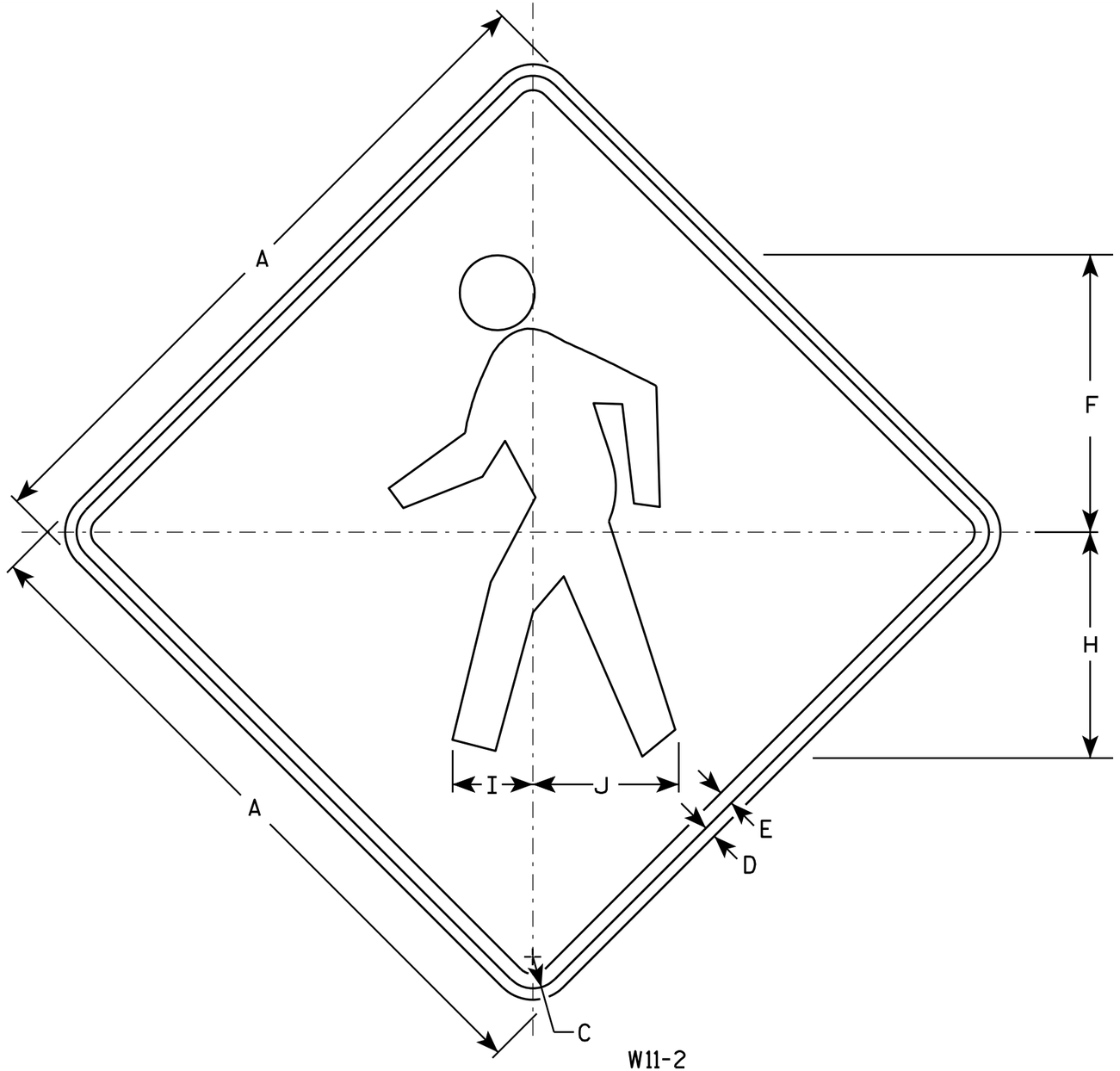
STANDARD SIGN
W11-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/21/10 PLATE NO. W11-1.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 285	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																											

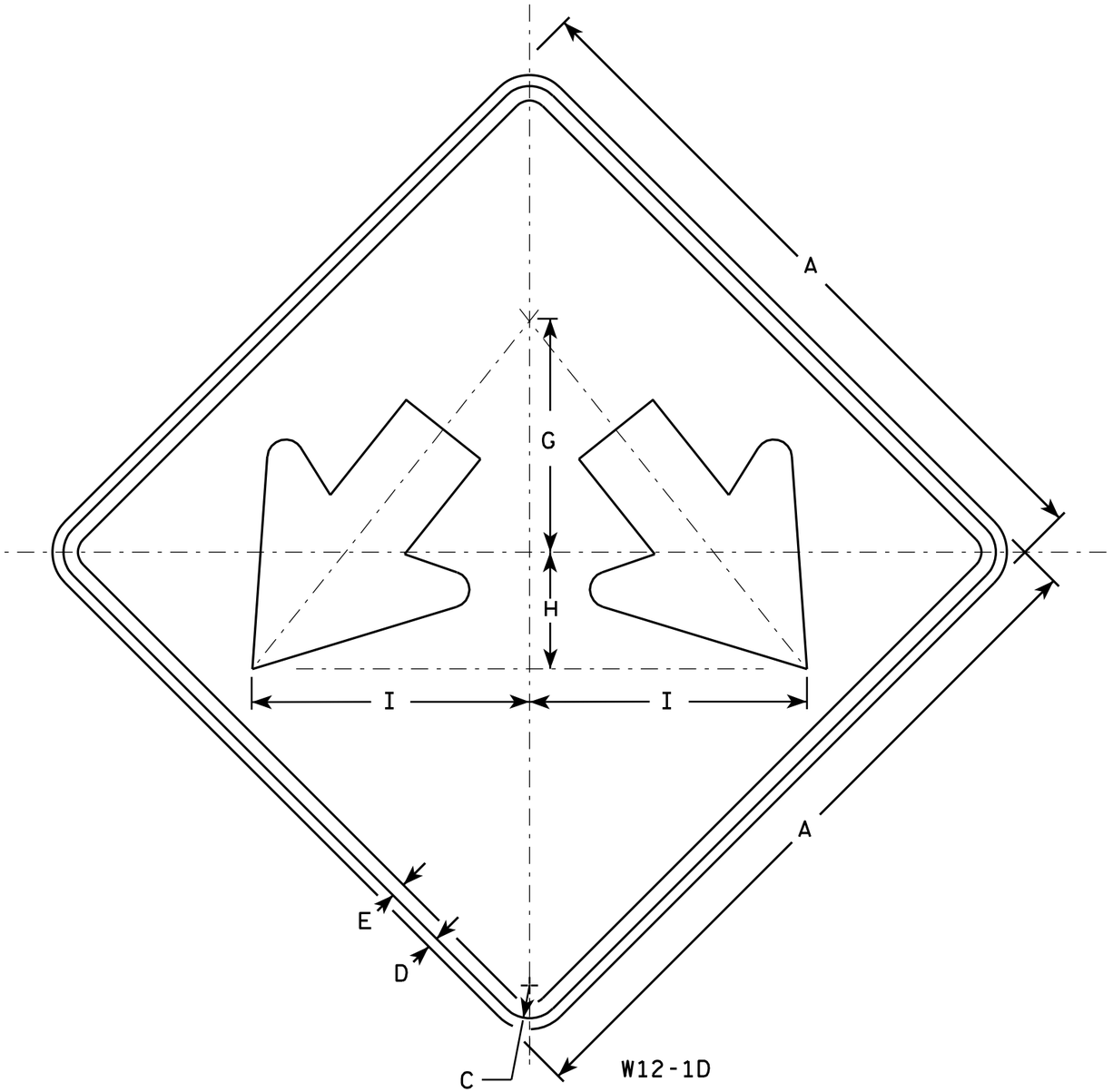
STANDARD SIGN
W11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

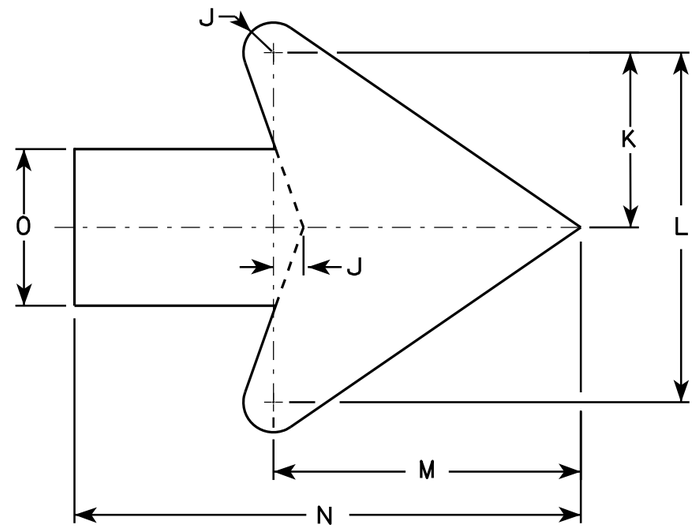
DATE 6/7/10 PLATE NO. W11-2.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 286	E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - 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.



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	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 3/8	1/2	5/8		10	5	11 7/8	3/4	4 1/2	9	7 7/8	13	4												6.25
4	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0
5	48		2 1/4	3/4	1		16	8	19	1 1/4	7 1/4	14 1/2	12 3/4	21	6 1/4												16.0

STANDARD SIGN
W12-1D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W12-1D.15

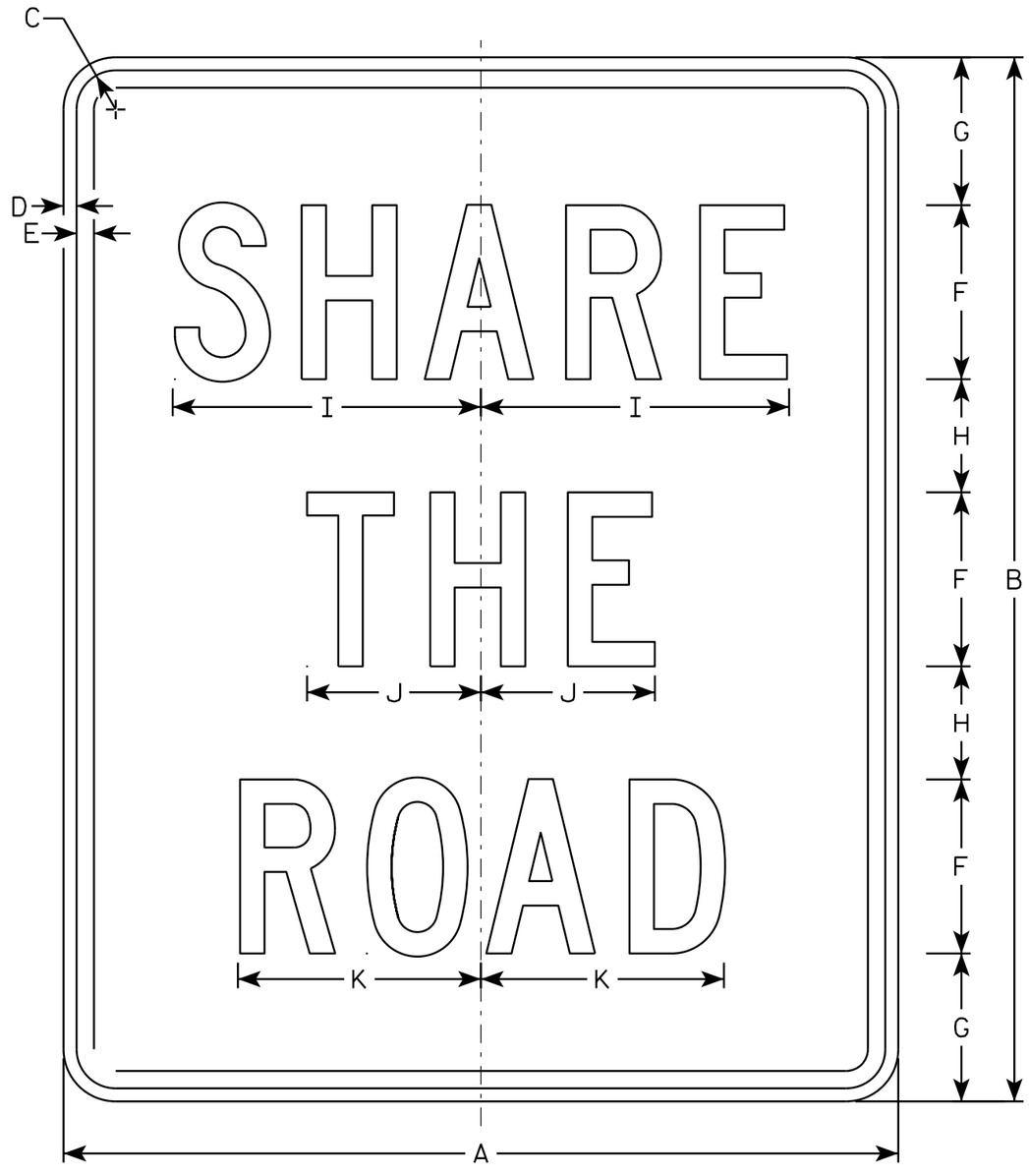
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 287	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W121D.DGN PLOT DATE : 13-MAR-2013 13:26 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 4.713802:1.000000

WISDOT/CADDS SHEET 42

7

7



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - 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.

W16-1P

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	18	24	1 1/8	3/8	1/2	4	3 3/8	2 5/8	6 5/8	3 3/4	5 3/8																3.0
2M	18	24	1 1/8	3/8	1/2	4	3 3/8	2 5/8	6 5/8	3 3/4	5 3/8																3.0
3	24	30	1 1/8	3/8	1/2	5	4 1/4	3 1/4	8 7/8	5	7																5.0
4	24	30	1 1/8	3/8	1/2	5	4 1/4	3 1/4	8 7/8	5	7																5.0
5																											

STANDARD SIGN
W16-1P

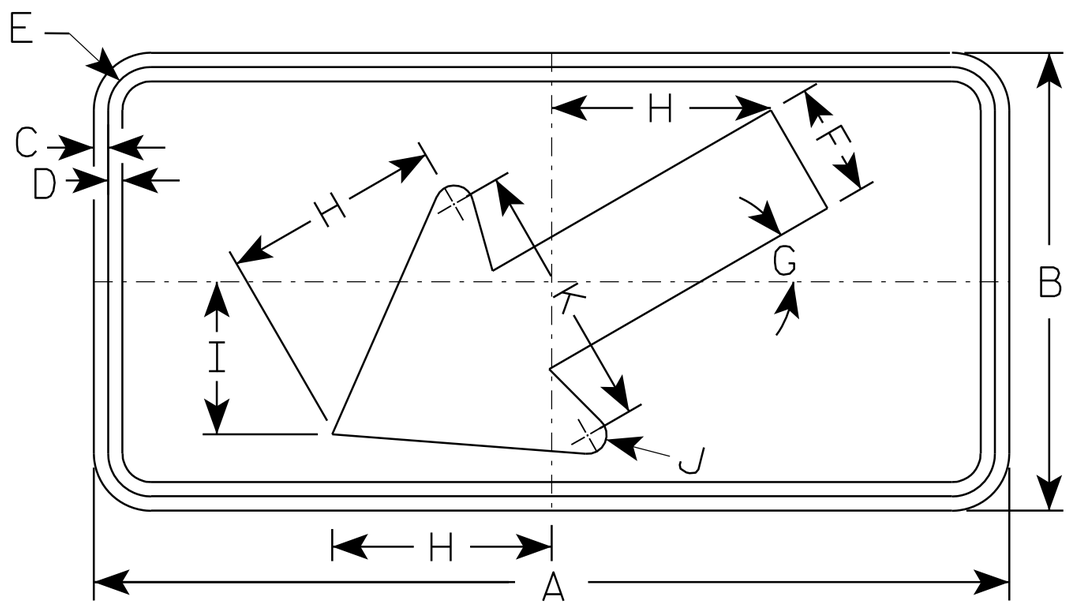
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/21/11 PLATE NO. W16-1P.2

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W161P.DGN PLOT DATE : 27-JUL-2015 13:51 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 4.280853:1.000000
WISDOT/CADDS SHEET 42



W16-7L

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.
4. 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																											8
5																											8

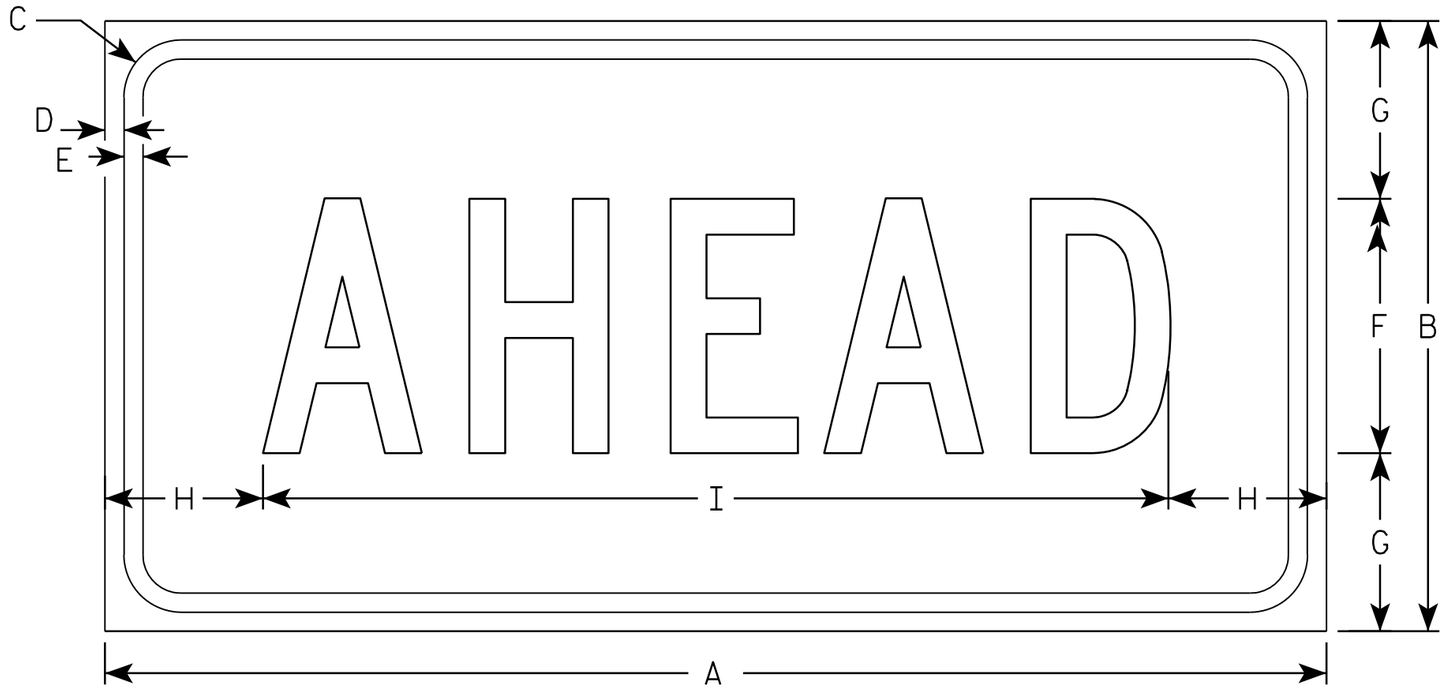
STANDARD SIGN
W16-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/02/10 PLATE NO. W16-7.5

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 289	E



W16-9P

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/8	3/8	3/8	5	3 1/2	3 1/8	17 3/4																		2.0
2M	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
3	30	18	1 1/8	3/8	1/2	7	3 1/2	2 3/4	24 1/2																		3.75
4	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
5																											

STANDARD SIGN
W16-9P

WISCONSIN DEPT OF TRANSPORTATION

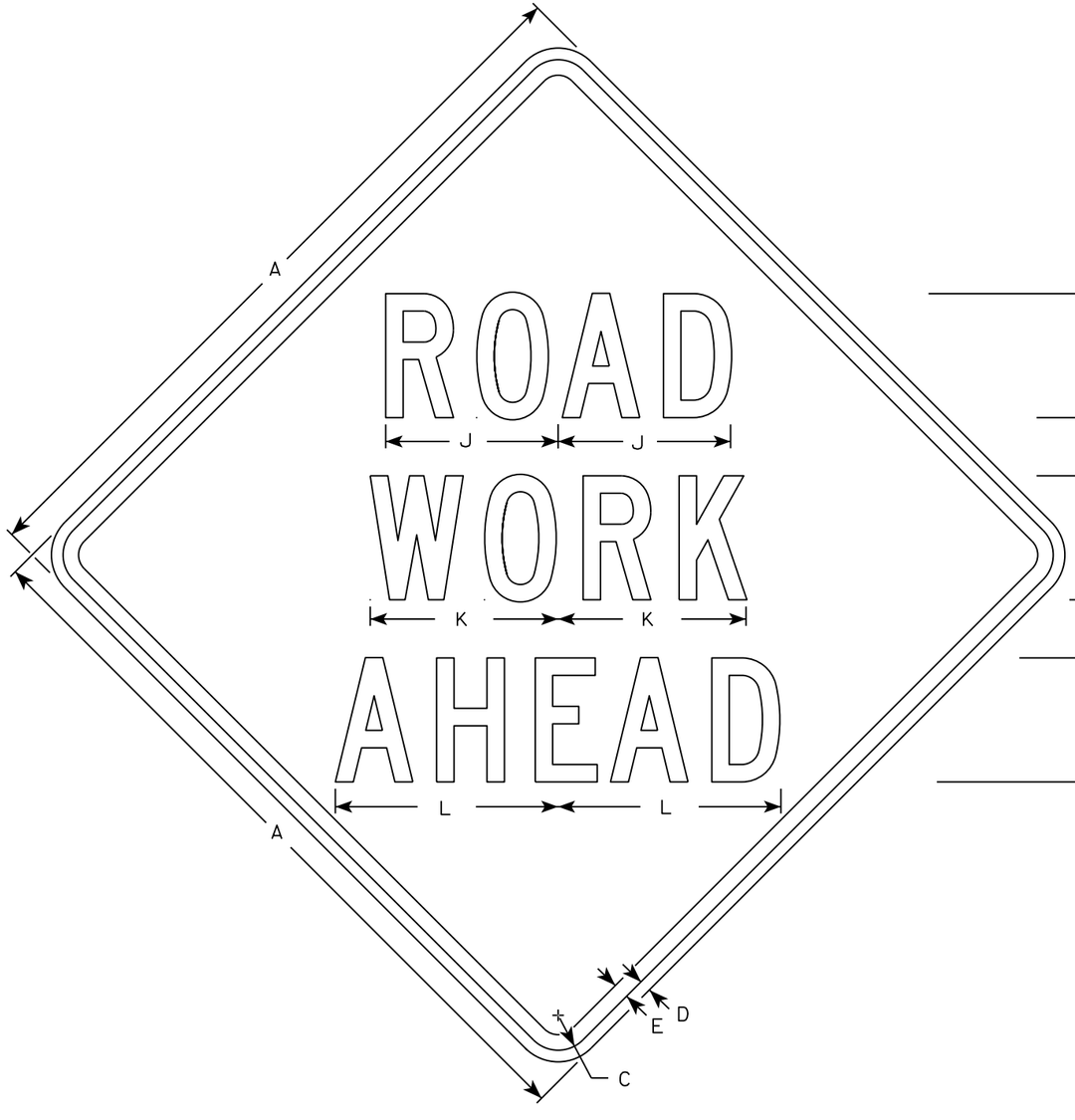
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/28/10 PLATE NO. W16-9P.6

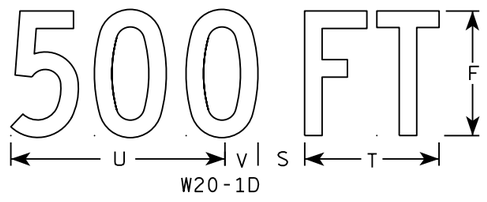
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 290 | E

7

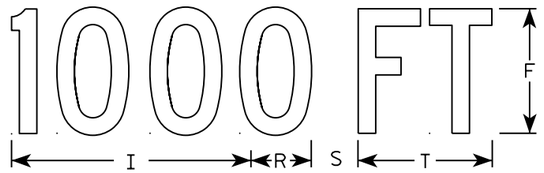
FILE NAME : C:\Users\PROJECTS\tr_stdplate\W169P.DGN PLOT DATE : 28-DEC-2010 13:39 PLOT BY : dotsja PLOT NAME : PLOT SCALE : 2.979524:1.000000
WISDOT/CADDS SHEET 42



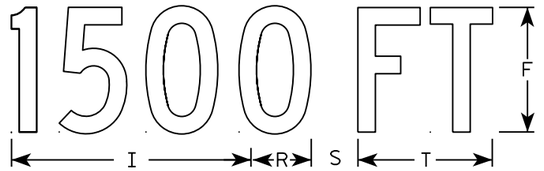
W20-1A



W20-1D



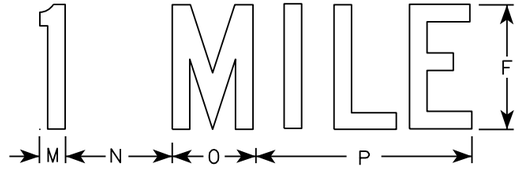
W20-1C



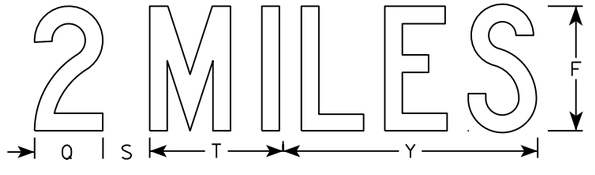
W20-1B



W20-1G



W20-1F



W20-1E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		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

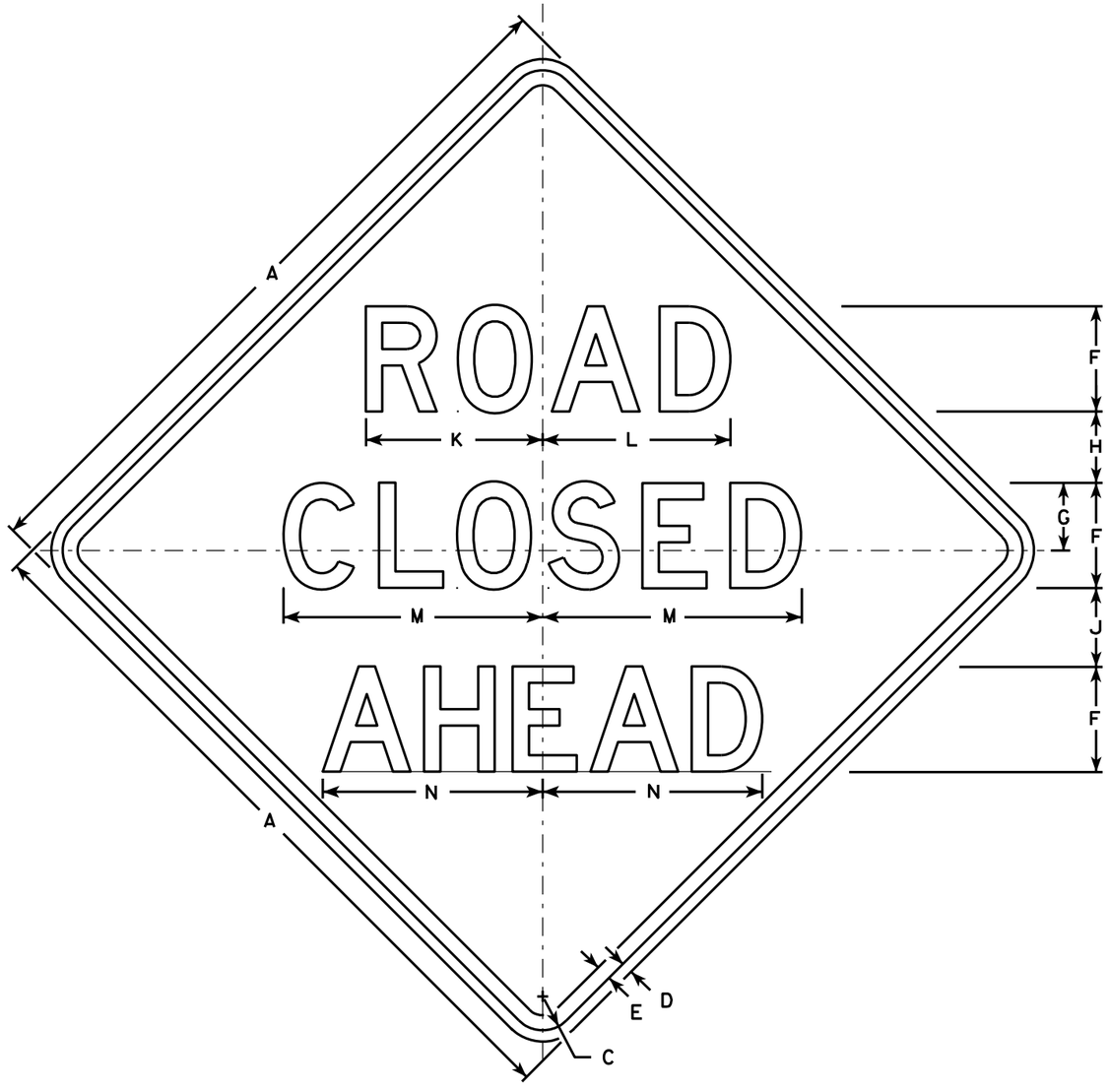
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/07/15 PLATE NO. W20-1.10

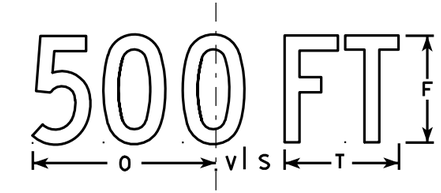
PROJECT NO:

SHEET NO: E

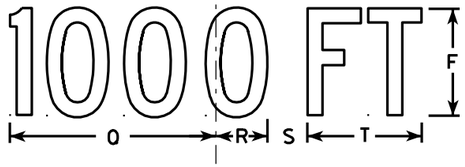
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 01-DEC-2015 18:24 PLOT BY : $$ plotuser $$



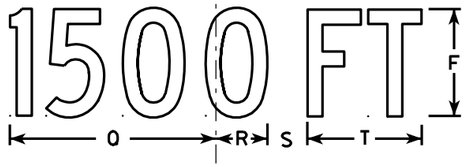
W20-3A



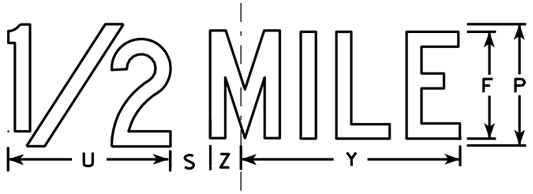
W20-3D



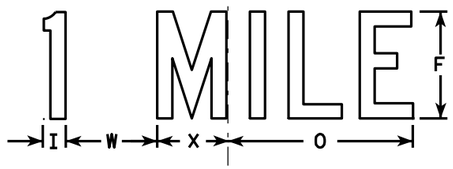
W20-3C



W20-3B



W20-3G



W20-3F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 3/18/11 PLATE NO. W20-3.7

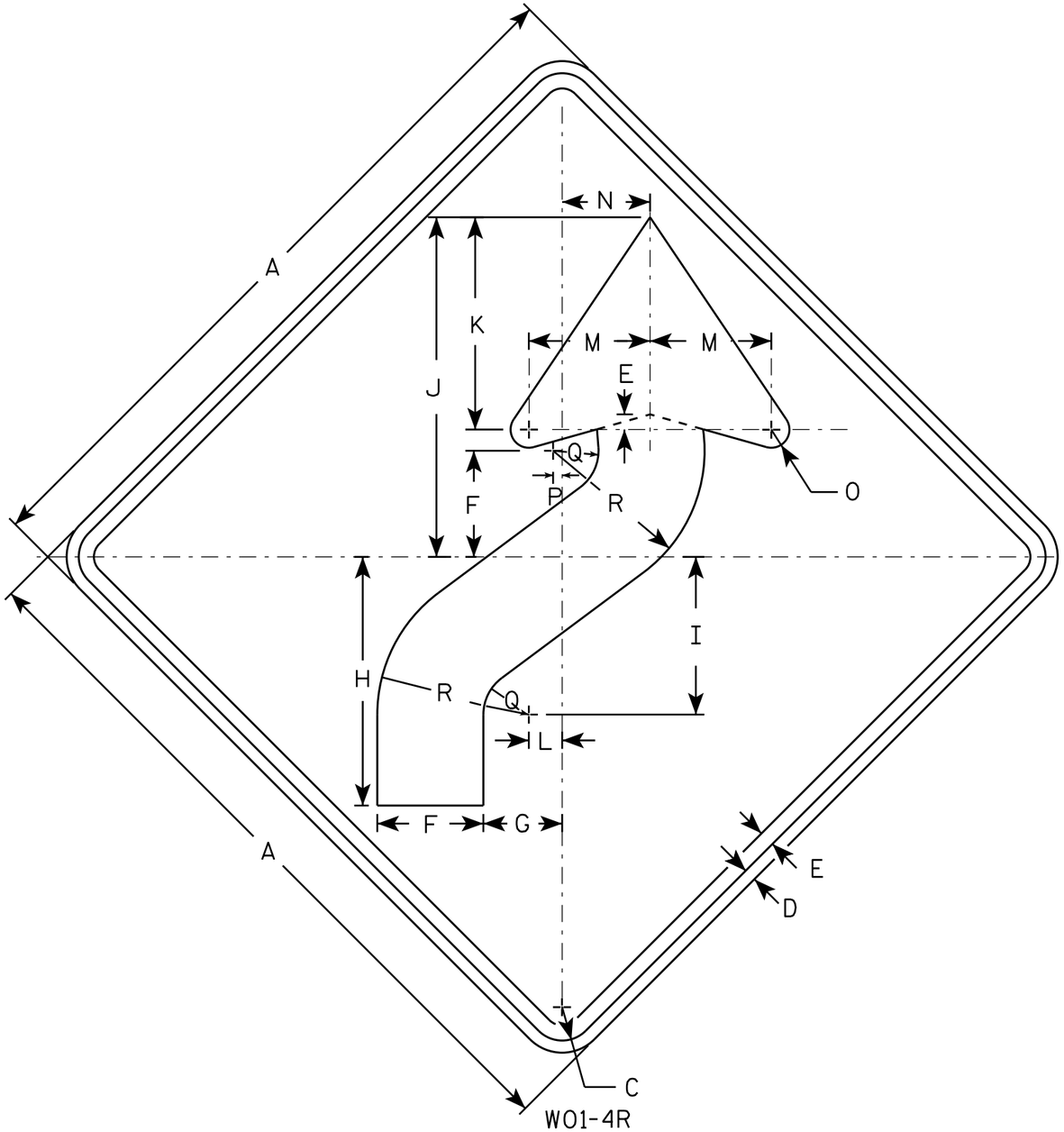
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 292 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W203.DGN PLOT DATE : 18-MAR-2011 12:08 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.931739:1.000000

WISDOT/CADDS SHEET 42

7

7



W01-4R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W01-4L is the same as W01-4R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
2S	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
2M	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
3	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
4	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
5	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

STANDARD SIGN
W01-4

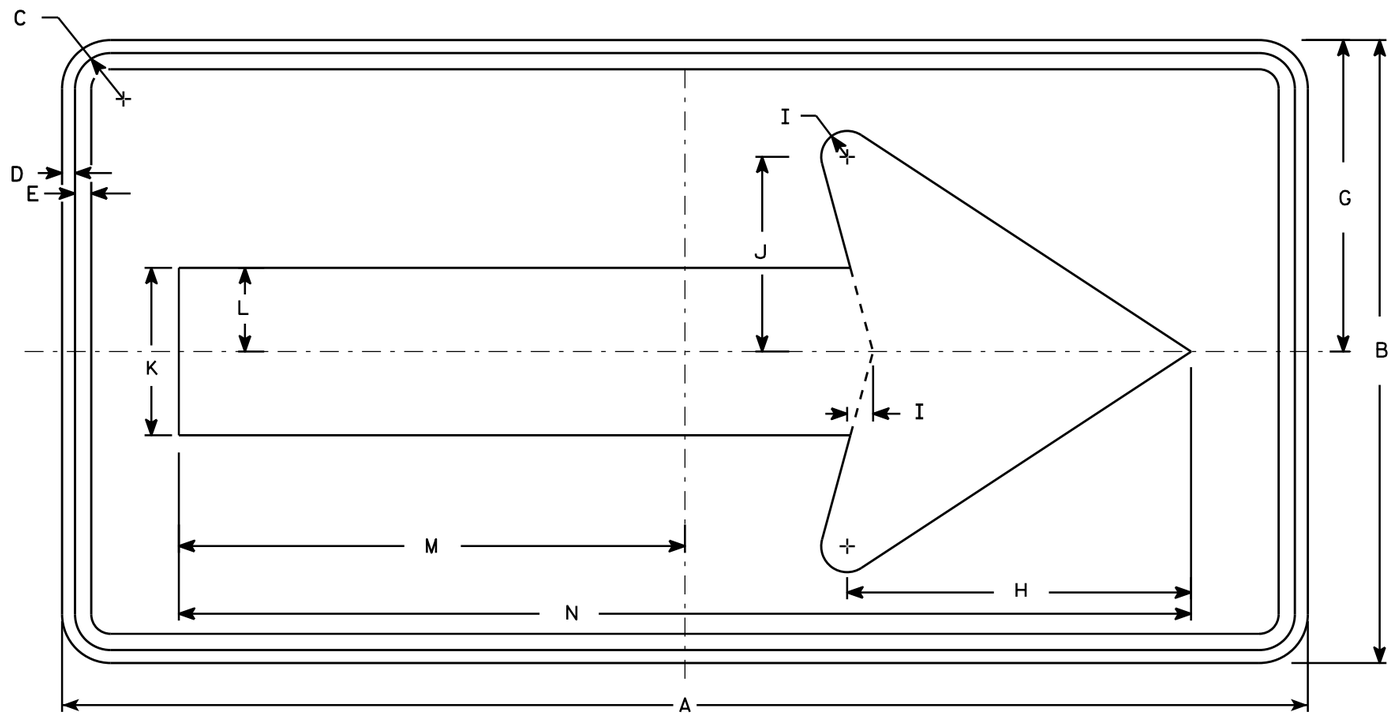
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO W01-4.1

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W014.DGN PLOT DATE : 28-FEB-2014 11:35 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 6.755110:1.000000
WISDOT/CADDS SHEET 42



W01-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5

STANDARD SIGN
W01-6

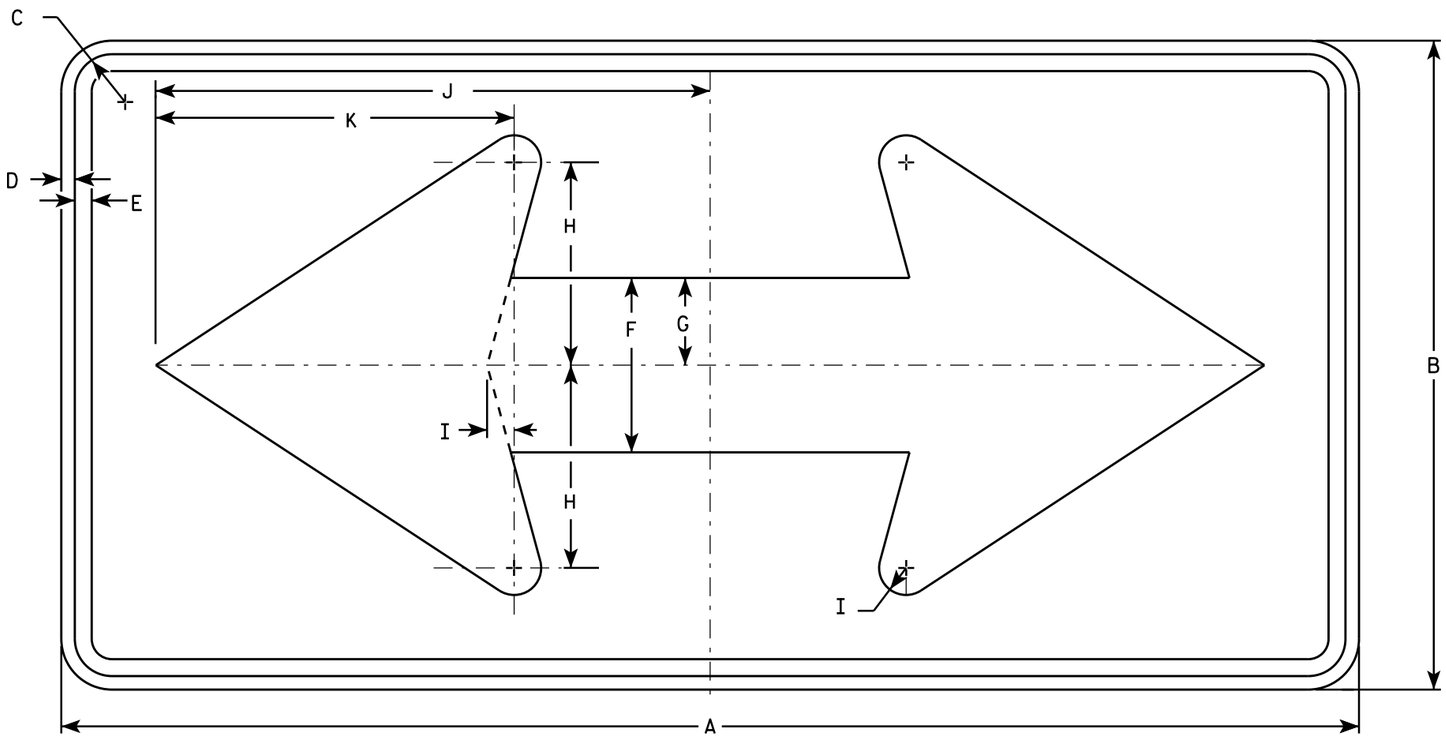
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO. W01-6.1

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W016.DGN PLOT DATE : 28-FEB-2014 11:37 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.837526:1.000000 WISDOT/CADDS SHEET 42



W01-7

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	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
3	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
4	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
5	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5

STANDARD SIGN
W01-7

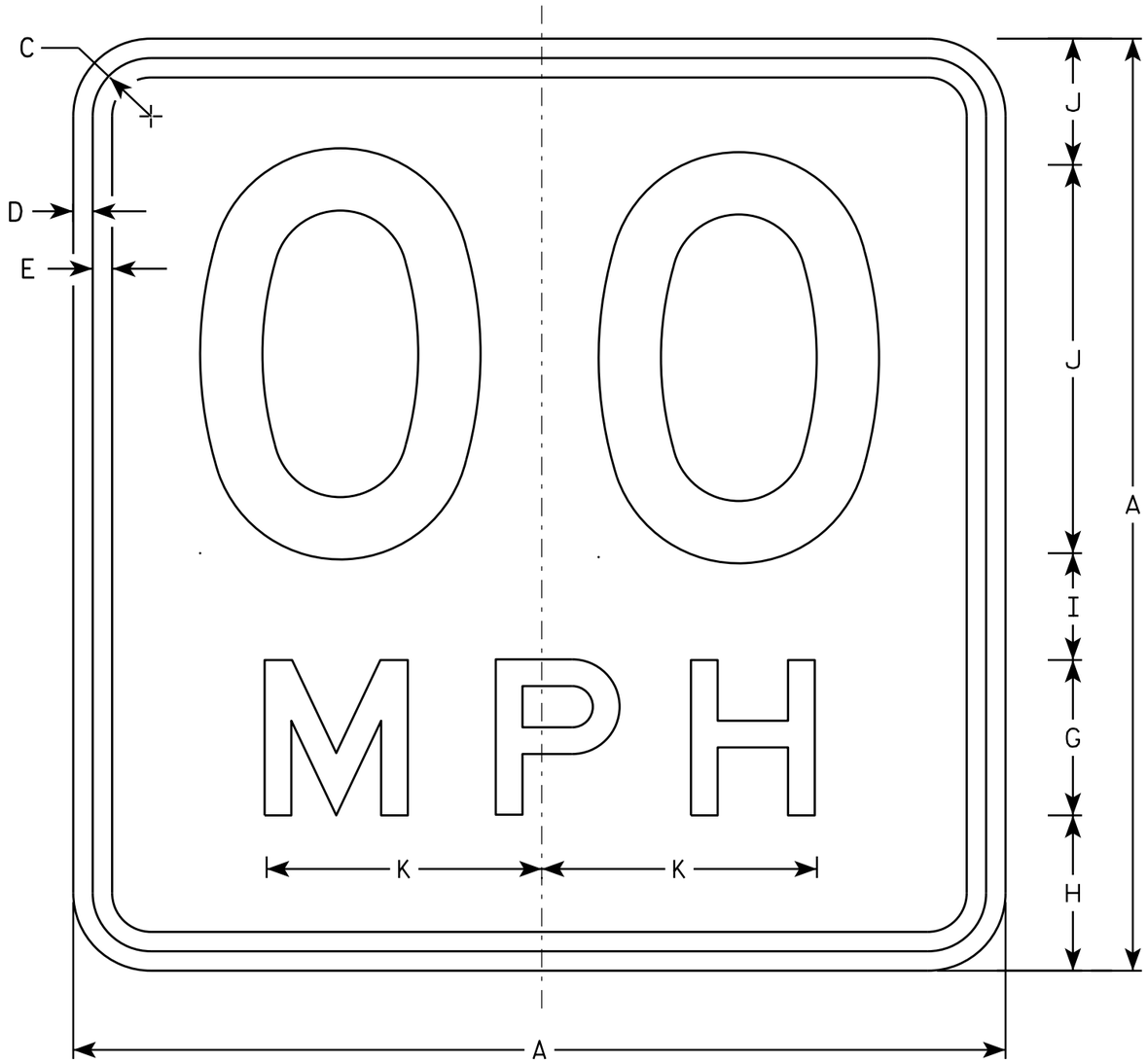
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE 1295 W01-7.1

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

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W017.DGN PLOT DATE : 20-NOV-2013 10:35 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.604022:1.000000
WISDOT/CADDS SHEET 42



W013-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is Series E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	7 1/8																4.00
2S	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
2M	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
3	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

STANDARD SIGN
W013-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/21/13 PLATE 296 W013-1.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

STH 47 STAGE 1A

STATION	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 3	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.30	Mass Ordinate Note 8
00+81.63		0.00	0.00	0.00	0.00	0.00	0.00	0.00
01+00.00	18	3.20	0.00	1.09	0.00	1.09	0.00	1.09
01+50.00	50	2.64	6.87	5.41	6.36	6.50	6.36	0.13
02+00.00	50	3.09	10.74	5.31	16.31	11.80	22.67	-10.87
02+50.00	50	3.57	6.78	6.17	16.22	17.97	38.89	-20.92
03+00.00	50	4.78	2.41	7.73	8.51	25.70	47.40	-21.70
03+50.00	50	3.09	5.10	7.29	6.95	32.99	54.35	-21.37
04+00.00	50	3.30	3.22	5.92	7.70	38.90	62.06	-23.15
04+50.00	50	5.48	1.04	8.13	3.94	47.03	66.00	-18.97
05+00.00	50	5.50	1.08	10.17	1.96	57.20	67.96	-10.76
05+50.00	50	9.90	0.38	14.26	1.35	71.46	69.31	2.14
06+00.00	50	25.46	0.15	32.74	0.49	104.20	69.81	34.39
06+50.00	50	17.72	0.34	39.98	0.45	144.18	70.26	73.92
07+00.00	50	19.27	0.00	34.25	0.31	178.43	70.57	107.86
07+50.00	50	34.83	0.00	50.09	0.00	228.52	70.57	157.95
08+00.00	50	33.63	0.00	63.39	0.00	291.91	70.57	221.34
08+50.00	50	30.83	0.00	59.69	0.00	351.60	70.57	281.02
09+00.00	50	44.10	0.00	69.38	0.00	420.98	70.57	350.40
09+50.00	50	11.32	4.97	51.31	4.60	472.29	75.18	397.12
10+00.00	50	18.73	0.24	27.82	4.82	500.12	80.00	420.12
10+50.00	50	6.44	5.12	23.31	4.96	523.42	84.96	438.46
11+00.00	50	6.00	0.82	11.52	5.50	534.94	90.46	444.48
11+50.00	50	4.93	0.00	10.12	0.76	545.06	91.22	453.84
12+00.00	50	3.14	0.00	7.47	0.00	552.53	91.22	461.31
14+00.00		15.96	0.01	0.00	0.00	552.53	91.22	461.31
14+50.00	50	15.41	5.05	29.05	4.69	581.58	95.91	485.67
15+00.00	50	22.83	0.66	35.41	5.29	616.99	101.19	515.79
15+50.00	50	22.96	0.37	42.40	0.95	659.38	102.15	557.24
16+00.00	50	16.93	0.67	36.94	0.96	696.32	103.11	593.21
16+50.00	50	13.94	0.00	28.58	0.62	724.90	103.73	621.17
17+00.00	50	14.17	0.00	26.03	0.00	750.93	103.73	647.20
17+50.00	50	13.06	0.00	25.21	0.00	776.14	103.73	672.41
23+00.00		8.45	0.00	0.00	0.00	776.14	103.73	672.41
23+50.00	50	10.96	0.00	17.97	0.00	794.12	103.73	690.38
24+00.00	50	12.48	0.00	21.70	0.00	815.82	103.73	712.09
24+50.00	50	13.17	0.00	23.75	0.00	839.57	103.73	735.84
25+00.00	50	12.90	0.00	24.14	0.00	863.71	103.73	759.98
25+50.00	50	13.05	0.00	24.03	0.00	887.74	103.73	784.01
26+00.00	50	12.01	0.00	23.20	0.00	910.94	103.73	807.21
26+50.00	50	11.79	0.00	22.04	0.00	932.98	103.73	829.25
27+00.00	50	14.06	0.00	23.94	0.00	956.91	103.73	853.18
27+50.00	50	14.54	0.00	26.48	0.00	983.39	103.73	879.66
28+00.00	50	14.27	0.00	26.68	0.00	1010.07	103.73	906.34
28+50.00	50	14.31	0.00	26.46	0.00	1036.53	103.73	932.80
30+00.00		13.77	0.00	0.00	0.00	1036.53	103.73	932.80
30+50.00	50	13.87	0.00	25.59	0.00	1062.13	103.73	958.39
31+00.00	50	14.31	0.00	26.09	0.00	1088.22	103.73	984.49
31+50.00	50	13.80	0.00	26.03	0.00	1114.25	103.73	1010.51
32+00.00	50	13.58	0.00	25.35	0.00	1139.60	103.73	1035.87
32+50.00	50	13.72	0.00	25.28	0.00	1164.88	103.73	1061.14
33+00.00	50	13.54	0.00	25.24	0.00	1190.12	103.73	1086.38
33+50.00	50	14.04	0.00	25.54	0.00	1215.65	103.73	1111.92
34+00.00	50	14.53	0.00	26.45	0.00	1242.11	103.73	1138.38
34+50.00	50	15.20	0.00	27.53	0.00	1269.63	103.73	1165.90
35+00.00	50	13.60	2.48	26.67	2.30	1296.30	106.03	1190.27
35+50.00	50	13.35	3.94	24.95	5.94	1321.26	111.97	1209.28
36+00.00	50	11.12	0.00	22.66	3.65	1343.91	115.62	1228.29
36+50.00	50	3.21	1.69	13.27	1.56	1357.18	117.19	1240.00
37+00.00	50	4.06	1.22	6.73	2.69	1363.91	119.88	1244.03
37+50.00	50	3.93	1.63	7.40	2.64	1371.31	122.52	1248.79
37+83.76	34	0.00	0.00	2.46	1.02	1373.77	123.54	1250.23
				1373.77	123.54			

STH 47 STAGE 1B

			AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	**Real Station**	**Distance**	**Cut**	**Fill**	**Cut** **Note 1**	**Fill** **Note 3**	**Cut** **1.00** **Note 1**	**Expanded Fill** 1.3	**Mass Ordinate** **Note 8**
71+00.00	7100		0.00	0.00	0.00	0.00	0	0	0
71+50.00	7150	50	48.59	0.00	44.99	0.00	44.99	0	45
72+00.00	7200	50	30.64	0.00	73.36	0.00	118.35	0	118
72+50.00	7250	50	93.78	0.00	115.20	0.00	233.56	0	234
72+58.00	7258	8	93.54	0.00	27.75	0.00	261	0	261
73+00.00	7300	42	20.59	0.00	88.77	0.00	350	0	350
73+50.00	7350	50	0.00	0.00	19.06	0.00	369	0	369
					369	0			

9

9

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	EARTHWORK	SHEET 298	E

STH 47 STAGE 1C

STATION	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 3	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.3	Mass Ordinate Note 8
48+67.00		0.00	0.00	0.00	0.00	0	0	0
49+00.00	33	48.19	48.32	29.45	29.53	29.45	38	-9
49+50.00	50	41.03	137.35	82.61	171.92	112.06	262	-150
50+00.00	50	42.65	41.06	77.48	165.19	189.54	477	-287
50+50.00	50	34.35	38.85	71.30	73.99	261	573	-312
51+00.00	50	35.43	23.44	64.61	57.68	325	648	-322
51+50.00	50	34.10	13.22	64.38	33.94	390	692	-302
52+00.00	50	42.96	7.43	71.35	19.12	461	717	-256
52+50.00	50	37.80	5.15	74.78	11.65	536	732	-196
53+00.00	50	79.40	0.00	108.52	4.77	644	738	-94
53+50.00	50	54.81	22.20	124.27	20.56	769	765	4
54+00.00	50	64.81	19.97	110.76	39.05	880	816	64
54+50.00	50	95.71	19.87	148.63	36.89	1028	864	165
55+00.00	50	101.22	8.62	182.34	26.38	1210	898	313
55+50.00	50	107.65	3.66	193.40	11.37	1404	913	491
56+00.00	50	156.58	0.00	244.66	3.39	1649	917	731
56+50.00	50	179.39	0.00	311.08	0.00	1960	917	1043
57+00.00	50	147.17	0.00	302.37	0.00	2262	917	1345
57+50.00	50	115.68	0.00	243.38	0.00	2505	917	1588
58+00.00	50	125.02	0.00	222.87	0.00	2728	917	1811
58+50.00	50	133.53	0.00	239.40	0.00	2968	917	2051
59+00.00	50	141.32	0.00	254.49	0.00	3222	917	2305
59+50.00	50	132.82	0.00	253.83	0.00	3476	917	2559
60+00.00	50	161.81	0.00	272.81	0.00	3749	917	2832
60+50.00	50	0.00	0.00	149.82	0.00	3899	917	2982
61+00.00	50	0.00	0.00	0.00	0.00	3899	917	2982
61+50.00	50	0.00	0.00	0.00	0.00	3899	917	2982
62+00.00	50	0.00	0.00	0.00	0.00	3899	917	2982
62+50.00	50	210.82	0.00	195.20	0.00	4094	917	3177
63+00.00	50	315.01	0.00	486.88	0.00	4581	917	3664
63+50.00	50	312.00	0.00	580.56	0.00	5161	917	4244
64+00.00	50	279.34	0.00	547.54	0.00	5709	917	4792
64+50.00	50	278.07	0.00	516.12	0.00	6225	917	5308
65+00.00	50	278.11	0.00	514.98	0.00	6740	917	5823
65+50.00	50	244.65	0.00	484.04	0.00	7224	917	6307
66+00.00	50	175.52	0.00	389.05	0.00	7613	917	6696
66+50.00	50	117.28	7.01	271.11	6.49	7884	925	6959
67+00.00	50	89.44	5.60	191.41	11.68	8075	941	7135
67+50.00	50	95.53	3.90	171.27	8.80	8247	952	7295
68+00.00	50	91.46	0.00	173.14	3.61	8420	957	7463
68+50.00	50	76.38	1.06	155.41	0.98	8575	958	7617
69+00.00	50	81.46	1.66	146.15	2.52	8721	961	7760
69+50.00	50	76.95	14.13	146.68	14.62	8868	980	7888
70+00.00	50	79.34	9.90	144.71	22.25	9013	1009	8004
70+50.00	50	83.41	9.76	150.69	18.20	9164	1033	8131
71+00.00	50	82.46	10.80	153.58	19.04	9317	1058	8259
71+50.00	50	79.65	28.28	150.10	36.19	9467	1105	8362
72+00.00	50	87.48	1.60	154.75	27.67	9622	1141	8481
72+50.00	50	49.65	0.00	126.97	1.48	9749	1143	8606
73+00.00	50	77.66	0.20	117.88	0.19	9867	1143	8724
73+50.00	50	64.86	7.43	131.96	7.06	9999	1152	8847
74+00.00	50	59.53	21.29	115.18	26.59	10114	1187	8927
74+50.00	50	53.03	4.94	104.22	24.29	10218	1218	9000
75+00.00	50	64.34	5.52	108.68	9.69	10327	1231	9096
75+50.00	50	65.91	7.28	120.60	11.85	10447	1246	9201
76+00.00	50	46.22	0.00	103.82	6.74	10551	1255	9296
76+50.00	50	39.36	0.00	79.24	0.00	10631	1255	9376
77+00.00	50	28.74	23.96	63.06	22.19	10694	1284	9410
77+50.00	50	27.27	38.66	51.86	57.98	10745	1359	9386
78+00.00	50	27.43	40.92	50.65	73.69	10796	1455	9341
78+50.00	50	29.30	46.02	52.53	80.50	10849	1560	9289
79+00.00	50	30.00	45.46	54.91	84.70	10904	1670	9234
79+50.00	50	27.05	16.03	52.82	56.94	10956	1744	9213
80+00.00	50	24.99	20.91	48.19	34.20	11005	1788	9216
80+50.00	50	22.06	34.76	43.56	51.55	11048	1855	9193
81+00.00	50	23.85	32.84	42.51	62.59	11091	1937	9154
81+50.00	50	23.06	31.61	43.44	59.68	11134	2014	9120
82+00.00	50	22.27	22.67	41.97	50.26	11176	2079	9097
82+50.00	50	23.81	9.46	42.67	29.75	11219	2118	9101
83+00.00	50	25.15	10.03	45.33	18.05	11264	2142	9122
				11264	1647			

STH 47 ROUNDABOUT STAGE 1C

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 3	Cumulative Vol (CY) Cut 1.3 Note 1	Cumulative Vol (CY) Expanded Fill 1.3	Mass Ordinate Note 8
10+00.15	1000		200.46	76.24	0.00	0.00	0	0	0
10+25.00	1025	25	176.87	68.11	173.64	66.43	226	86	87
10+50.00	1050	25	170.27	64.32	160.71	61.31	435	166	168
10+75.00	1075	25	179.52	64.82	161.94	59.79	645	244	253
11+00.00	1100	25	152.07	67.78	153.51	61.39	845	324	326
11+25.00	1125	25	101.89	69.12	117.57	63.38	998	406	361
11+50.00	1150	25	81.85	73.40	85.06	65.98	1108	492	361
11+75.00	1175	25	86.12	78.22	77.76	70.19	1209	583	347
12+00.00	1200	25	141.15	85.77	105.22	75.92	1346	682	354
12+25.00	1225	25	68.90	114.22	97.25	92.59	1472	802	331
12+50.00	1250	25	26.29	140.75	44.07	118.04	1530	956	221
12+75.00	1275	25	5.42	194.13	14.68	155.04	1549	1157	34
13+00.00	1300	25	5.55	160.67	5.08	164.26	1555	1371	-174
13+25.00	1325	25	55.23	128.45	28.14	133.85	1592	1545	-320
13+50.00	1350	25	51.64	114.93	49.48	112.68	1656	1691	-417
13+75.00	1375	25	70.38	103.52	56.49	101.13	1730	1823	-492
14+00.00	1400	25	166.74	66.69	109.78	78.80	1873	1925	-486
14+25.00	1425	25	201.56	117.36	170.51	85.21	2094	2036	-428
14+50.00	1450	25	202.82	113.23	187.21	106.75	2338	2175	-382
14+52.00	1452	2	201.37	74.83	14.97	6.97	2357	2184	-381
					1813	1680			

DUQUAINE ROAD STAGE 1C

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 3	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.3	Mass Ordinate Note 8
90+21.00	9021		62.65	0.00	0.00	0.00	0	0	0
90+34.00	9034	13	63.26	0.00	30.31	0.00	30	0	30
90+50.00	9050	16	63.03	0.33	37.42	0.10	68	0	68
91+00.00	9100	50	72.30	5.43	125.31	5.33	193	7	186
91+50.00	9150	50	63.32	4.03	125.57	8.76	319	18	300
92+00.00	9200	50	63.61	5.33	117.53	8.67	436	30	406
92+50.00	9250	50	79.64	0.49	132.64	5.39	569	37	532
					569	28			

STANDING PINES ROAD STAGE 1C

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 3	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.3	Mass Ordinate Note 8
38+45.00	3845		0.00	0.00	0.00	0.00	0	0	0
38+50.00	3850	5	80.57	0.00	7.46	0.00	7	0	7
39+00.00	3900	50	65.48	24.05	135.23	22.27	143	29	114
39+50.00	3950	50	60.34	7.52	116.50	29.23	259	67	192
40+00.00	4000	50	91.46	0.22	140.56	7.17	400	76	323
40+50.00	4050	50	135.27	0.00	209.94	0.20	610	77	533
41+00.00	4100	50	145.63	0.00	260.09	0.00	870	77	793
41+50.00	4150	50	125.15	0.00	250.72	0.00	1120	77	1044
42+00.00	4200	50	25.17	4.15	139.19	3.84	1260	82	1178
42+05.00	4205	5	24.23	2.97	4.57	0.66	1264	82	1182
					1264	63			

STH 47 STAGE 2A

		AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	**Distance**	**Cut**	**Fill**	**Cut** **Note 1**	**Fill** **Note 3**	**Cut** **1.00** **Note 1**	**Expanded Fill** 1.3	**Mass Ordinate** **Note 8**
48+67.00		0.00	0.00	0.00	0.00	0	0	0
49+00.00	33	38.81	0.00	23.72	0.00	23.72	0	24
49+50.00	50	15.97	6.21	50.72	5.75	74.44	7	67
50+00.00	50	17.85	8.21	31.31	13.35	105.75	25	81
50+50.00	50	20.55	10.34	35.56	17.18	141	47	94
51+00.00	50	24.77	8.60	41.96	17.54	183	70	113
51+50.00	50	28.82	10.28	49.62	17.48	233	93	140
52+00.00	50	36.98	15.03	60.93	23.44	294	123	171
52+50.00	50	46.66	17.87	77.44	30.46	371	163	209
53+00.00	50	34.22	9.29	74.89	25.15	446	195	251
53+50.00	50	42.86	2.88	71.37	11.27	518	210	307
54+00.00	50	51.00	6.20	86.91	8.41	604	221	383
54+50.00	50	45.66	0.00	89.50	5.74	694	228	465
55+00.00	50	51.47	0.00	89.94	0.00	784	228	555
55+50.00	50	67.48	0.00	110.14	0.00	894	228	666
56+00.00	50	79.72	0.00	136.30	0.00	1030	228	802
56+50.00	50	69.87	0.00	138.51	0.00	1169	228	940
57+00.00	50	68.62	0.00	128.23	0.00	1297	228	1069
57+50.00	50	68.56	0.00	127.02	0.00	1424	228	1196
58+00.00	50	70.24	0.00	128.52	0.00	1553	228	1324
58+50.00	50	70.26	0.00	130.09	0.00	1683	228	1454
59+00.00	50	57.78	0.01	118.56	0.01	1801	228	1573
59+50.00	50	48.58	0.00	98.48	0.01	1900	229	1671
60+00.00	50	50.65	0.00	91.88	0.00	1992	229	1763
60+50.00	50	92.10	0.00	132.18	0.00	2124	229	1895
61+00.00	50	77.58	4.68	157.11	4.33	2281	234	2047
61+50.00	50	71.98	0.04	138.48	4.37	2419	240	2180
62+00.00	50	43.76	4.44	107.17	4.15	2527	245	2281
62+50.00	50	33.59	0.00	71.62	4.11	2598	251	2348
63+00.00	50	38.30	1.02	66.56	0.94	2665	252	2413
63+50.00	50	29.72	6.38	62.98	6.85	2728	261	2467
64+00.00	50	25.00	14.02	50.67	18.89	2778	285	2493
64+50.00	50	25.22	8.98	46.50	21.30	2825	313	2512
65+00.00	50	31.18	5.22	52.22	13.15	2877	330	2547
65+50.00	50	25.88	0.00	52.83	4.83	2930	336	2594
66+00.00	50	32.04	0.00	53.63	0.00	2984	336	2647
66+50.00	50	30.14	0.00	57.57	0.00	3041	336	2705
67+00.00	50	63.13	0.00	86.36	0.00	3127	336	2791
67+50.00	50	57.97	1.60	112.13	1.48	3240	338	2901
68+00.00	50	70.68	1.52	119.12	2.89	3359	342	3017
68+50.00	50	68.00	0.94	128.41	2.28	3487	345	3142
69+00.00	50	66.12	0.22	124.19	1.07	3611	346	3265
69+50.00	50	61.01	6.29	117.71	6.03	3729	354	3375
70+00.00	50	60.32	12.08	112.34	17.01	3841	376	3465
70+50.00	50	60.68	13.61	112.04	23.79	3953	407	3546
71+00.00	50	62.98	11.76	114.50	23.49	4068	438	3630
71+50.00	50	65.86	16.04	119.30	25.74	4187	471	3716
72+00.00	50	70.85	17.64	126.58	31.19	4314	512	3802
72+50.00	50	71.93	1.39	132.20	17.62	4446	535	3911
73+00.00	50	69.26	16.32	130.73	16.40	4577	556	4021
73+50.00	50	67.69	31.68	126.81	44.44	4704	614	4090
74+00.00	50	70.31	37.35	127.78	63.92	4831	697	4134
74+50.00	50	59.72	36.16	120.40	68.06	4952	785	4166
75+00.00	50	65.03	3.52	115.51	36.74	5067	833	4234
75+50.00	50	59.78	0.00	115.56	3.26	5183	837	4345
76+00.00	50	55.78	0.00	107.00	0.00	5290	837	4452
76+50.00	50	37.62	40.84	86.48	37.81	5376	887	4490
77+00.00	50	30.56	30.52	63.13	66.07	5439	972	4467
77+50.00	50	25.57	49.41	51.97	74.01	5491	1069	4423
78+00.00	50	25.17	65.17	46.98	106.09	5538	1207	4332
78+50.00	50	34.32	4.18	55.08	64.21	5593	1290	4303
79+00.00	50	30.34	34.49	59.87	35.81	5653	1337	4317
79+50.00	50	30.47	31.89	56.31	61.46	5710	1416	4293
80+00.00	50	30.92	43.88	56.84	70.16	5766	1508	4259
80+50.00	50	27.21	46.80	53.82	83.96	5820	1617	4203
81+00.00	50	28.85	43.28	51.91	83.41	5872	1725	4147
81+50.00	50	27.44	47.28	52.12	83.85	5924	1834	4090
82+00.00	50	27.18	42.59	50.57	83.21	5975	1942	4032
82+50.00	50	32.09	17.10	54.88	55.27	6030	2014	4015
83+00.00	50	32.17	0.00	59.50	15.83	6089	2035	4054
				6089	1565			

CAMPUS CIRCLE STAGE 2A

		AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	**Distance**	**Cut**	**Fill**	**Cut** **Note 1**	**Fill** **Note 3**	**Cut** **1.00** **Note 1**	**Expanded Fill** 1.3	**Mass Ordinate** **Note 8**
20+50.00		202.59	0.00	0.00	0.00	0	0	0
21+00.00	50	90.66	44.19	271.53	40.92	272	53	218
21+42.00	42	76.00	0.44	129.62	34.71	401	98	303
21+50.00	8	70.98	0.34	21.77	0.12	423	98	324
21+79.00	29	0.00	0.00	38.12	0.18	461	99	362
				461	76			

GO AROUND ROAD STAGE 2A

			AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	**Real Station**	**Distance**	**Cut**	**Fill**	**Cut** **Note 1**	**Fill** **Note 3**	**Cut** **1.00** **Note 1**	**Expanded Fill** 1.3	**Mass Ordinate** **Note 8**
93+50.00	9350		135.74	10.88	0.00	0.00	0	0	0
94+00.00	9400	50	58.11	18.74	179.49	27.43	179	36	144
94+50.00	9450	50	69.07	28.21	117.76	43.47	297	92	205
95+00.00	9500	50	48.05	31.84	108.44	55.60	406	164	241
95+50.00	9550	50	50.75	0.00	91.48	29.48	497	203	294
95+93.00	9593	43	54.35	0.00	83.69	0.00	581	203	378
96+00.00	9600	7	55.23	17.05	14.20	2.21	595	206	389
96+50.00	9650	50	57.82	6.23	104.68	21.56	700	234	466
96+71.00	9671	21	58.19	2.70	45.12	3.47	745	238	507
					745	183			

9

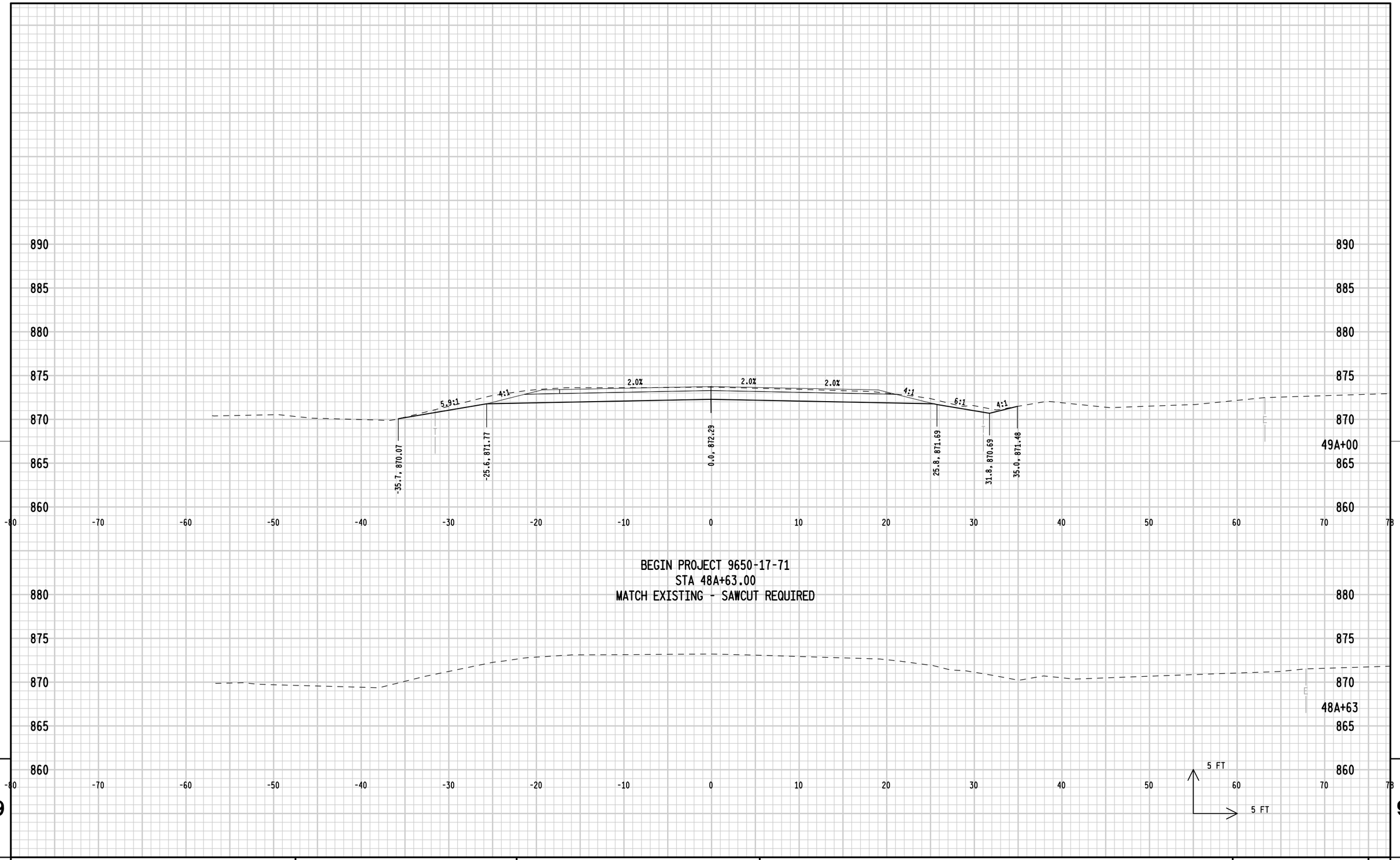
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STH 47 STAGE 2B

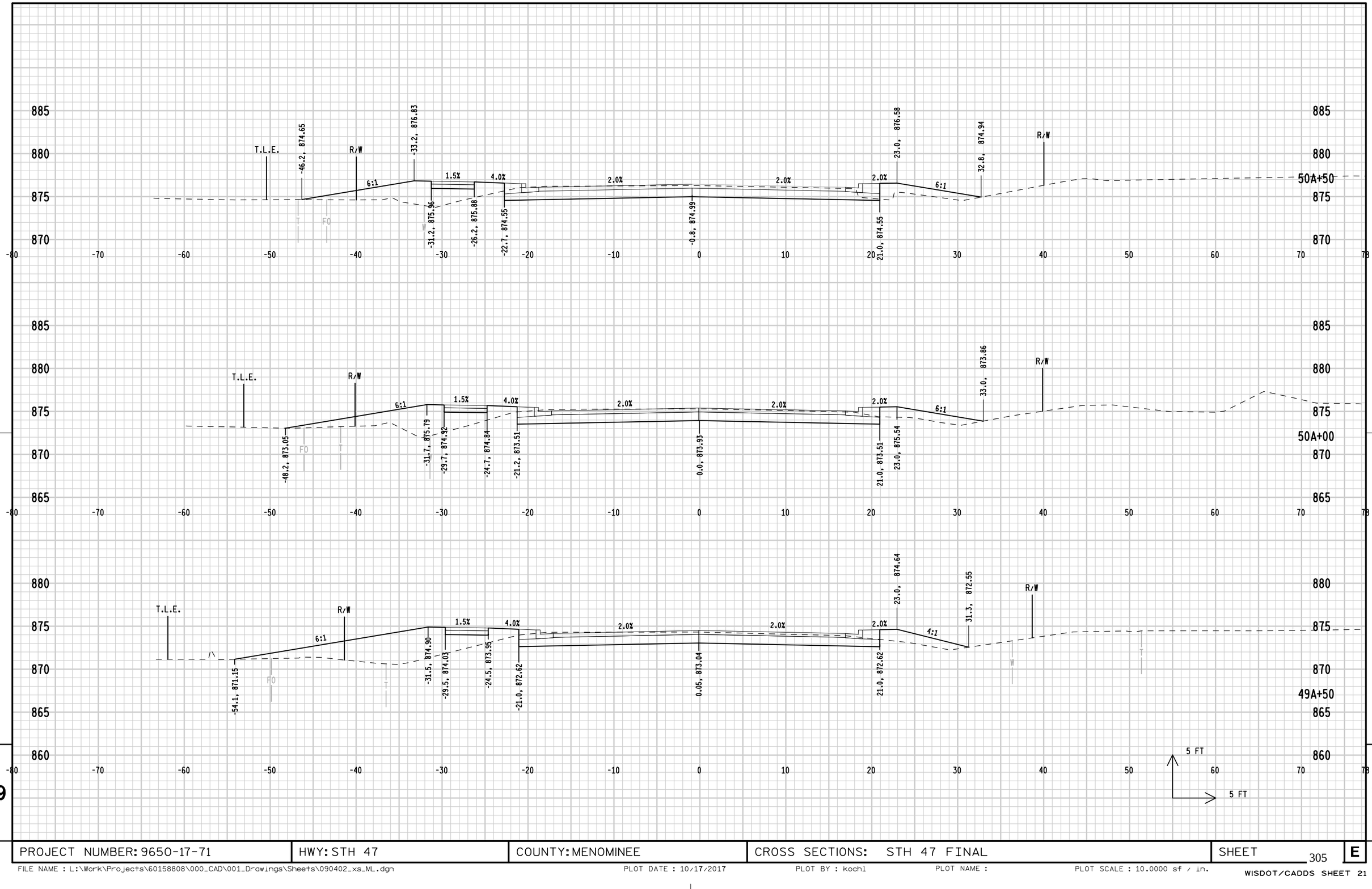
STATION	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 3	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.3	Mass Ordinate Note 8
55+00.00		0.00	0.00	0.00	0.00	0	0	0
55+50.00	50	20.21	0.00	18.71	0.00	19	0	19
56+00.00	50	20.99	0.00	38.15	0.00	57	0	57
56+50.00	50	24.79	0.00	42.39	0.00	99	0	99
57+00.00	50	2.92	0.00	25.66	0.00	125	0	125
57+50.00	50	19.09	0.00	20.38	0.00	145	0	145
58+00.00	50	4.60	0.00	21.94	0.00	167	0	167
58+50.00	50	0.00	0.00	4.26	0.00	171	0	171
71+00.00		0.00	0.00	0.00	0.00	0	0	171
71+50.00	50	4.38	0.00	4.06	0.00	4	0	176
72+00.00	50	14.49	0.00	17.47	0.00	22	0	193
72+50.00	50	42.38	0.00	52.66	0.00	74	0	246
73+00.00	50	23.04	0.00	60.57	0.00	135	0	306
73+50.00	50	0.00	0.00	21.33	0.00	156	0	328
				328	0			

STH 47 STAGE 2C

STATION	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 3	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.3	Mass Ordinate Note 8
53+00.00		0.00	0.00	0.00	0.00	0	0	0
53+50.00	50	15.75	0.00	14.58	0.00	15	0	15
54+00.00	50	26.28	0.00	38.92	0.00	54	0	54
54+50.00	50	0.00	0.00	24.33	0.00	78	0	78
79+00.00		0.00	0.00	0.00	0.00	78	0	78
79+50.00	50	4.36	51.94	4.04	48.09	82	63	19
80+00.00	50	5.82	53.90	9.43	98.00	91	190	-99
80+50.00	50	5.83	61.98	10.79	107.30	102	329	-227
81+00.00	50	5.83	49.88	10.80	92.37	113	449	-337
81+50.00	50	5.81	39.15	10.78	82.44	124	557	-433
82+00.00	50	5.83	40.06	10.78	73.34	134	652	-518
82+50.00	50	4.23	17.84	9.31	53.61	144	722	-578
83+00.00	50	0.00	0.00	3.92	16.52	148	743	-596
				148	572			



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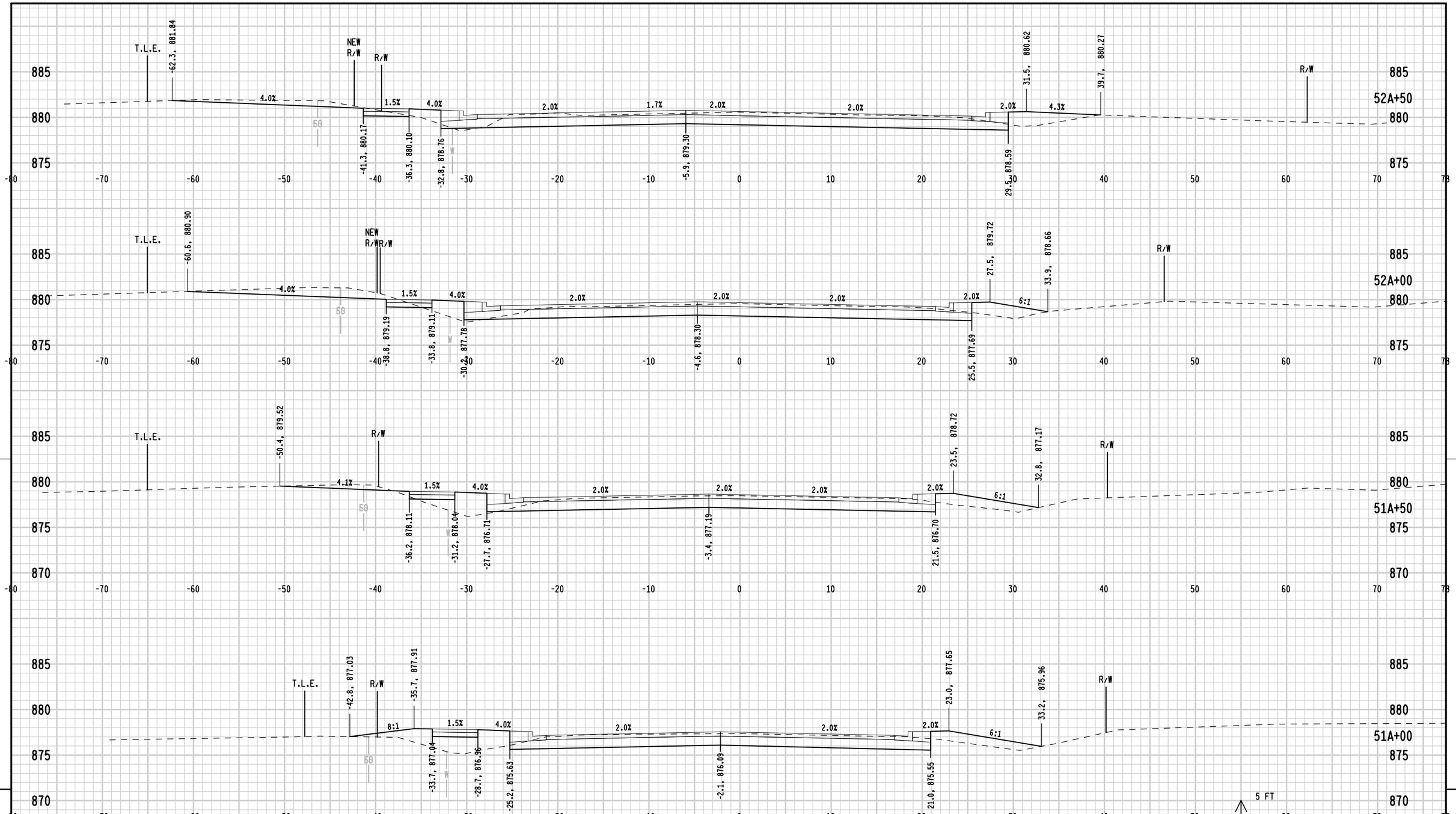
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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 FINAL	SHEET	E

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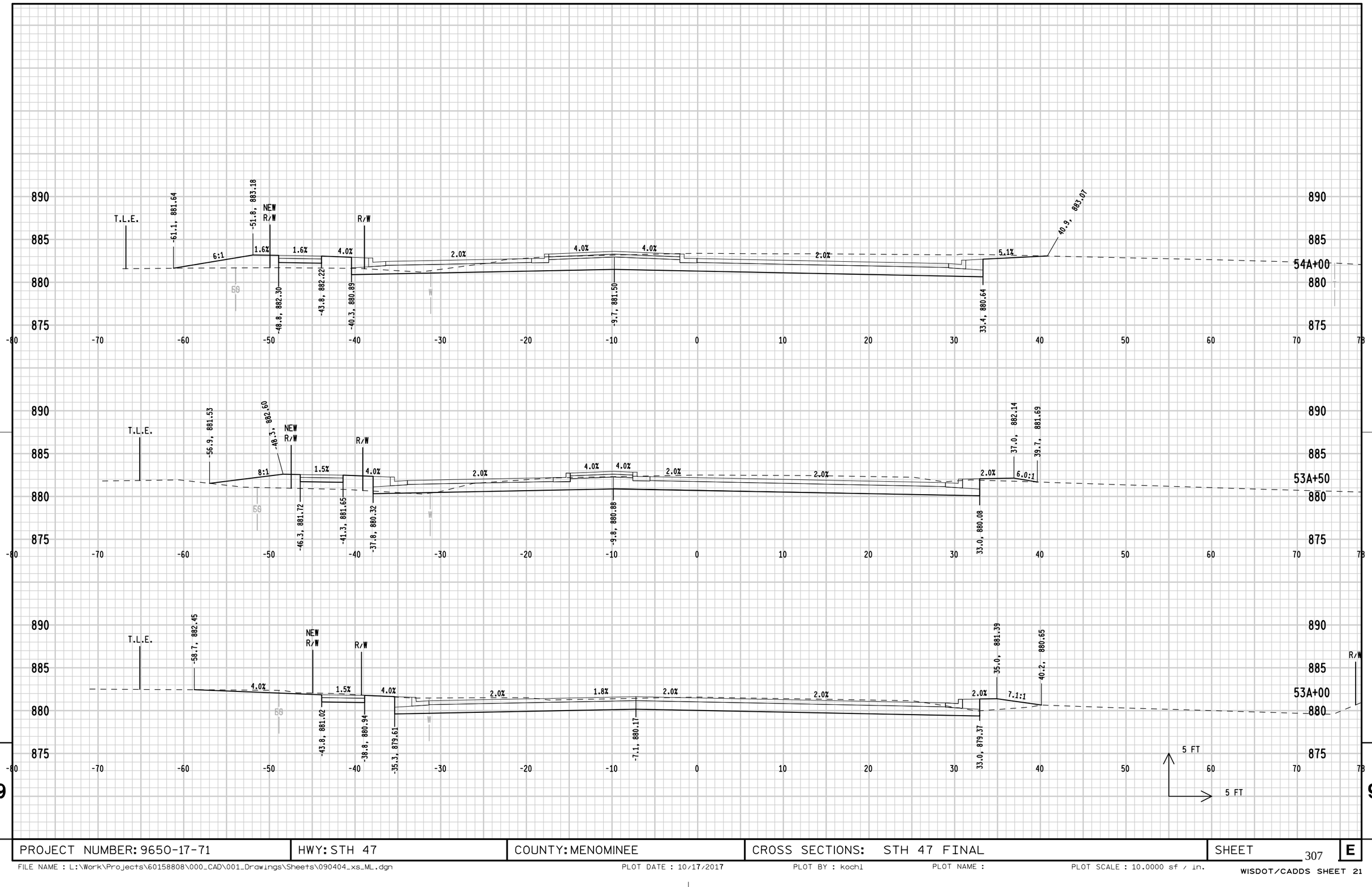
WISDOT/CADDS SHEET 21



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WISDOT/CADDS SHEET 21



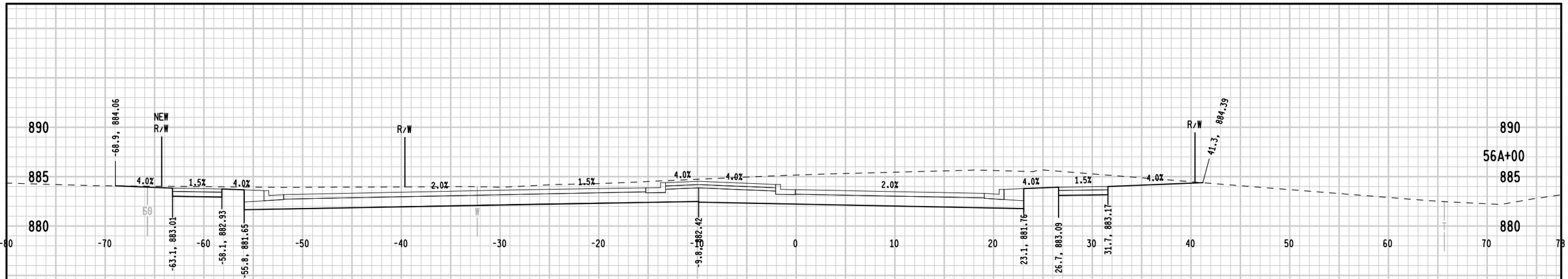
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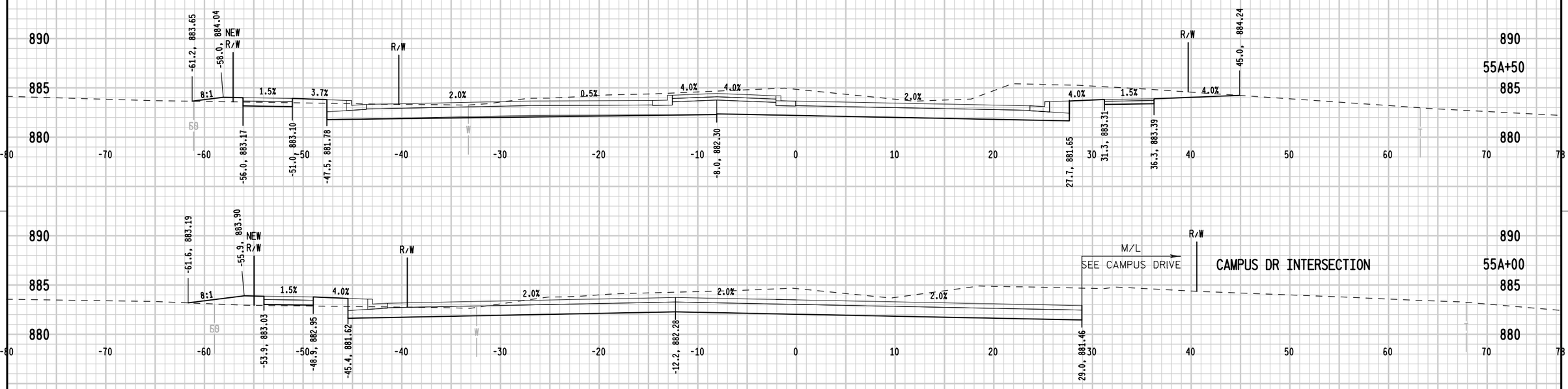
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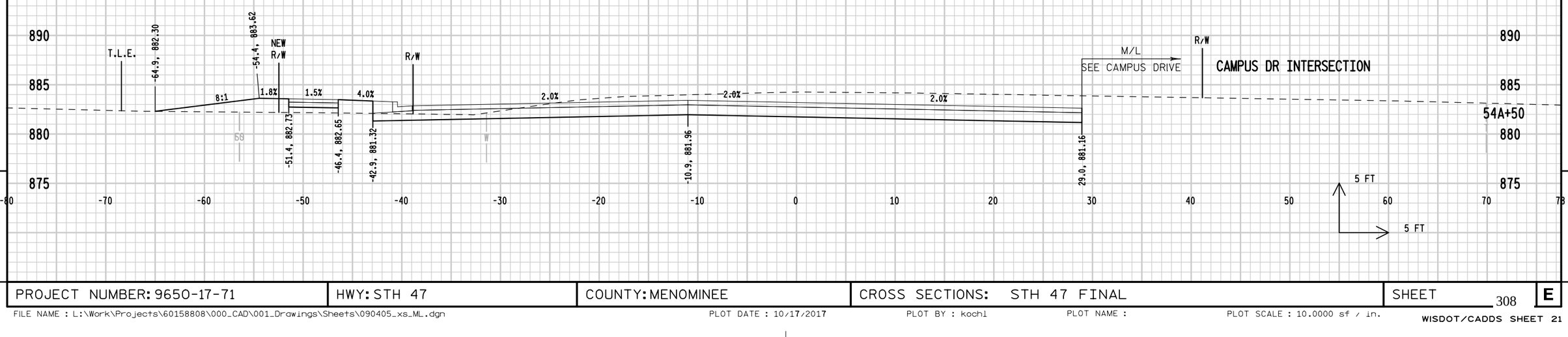
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WISDOT/CADDS SHEET 21







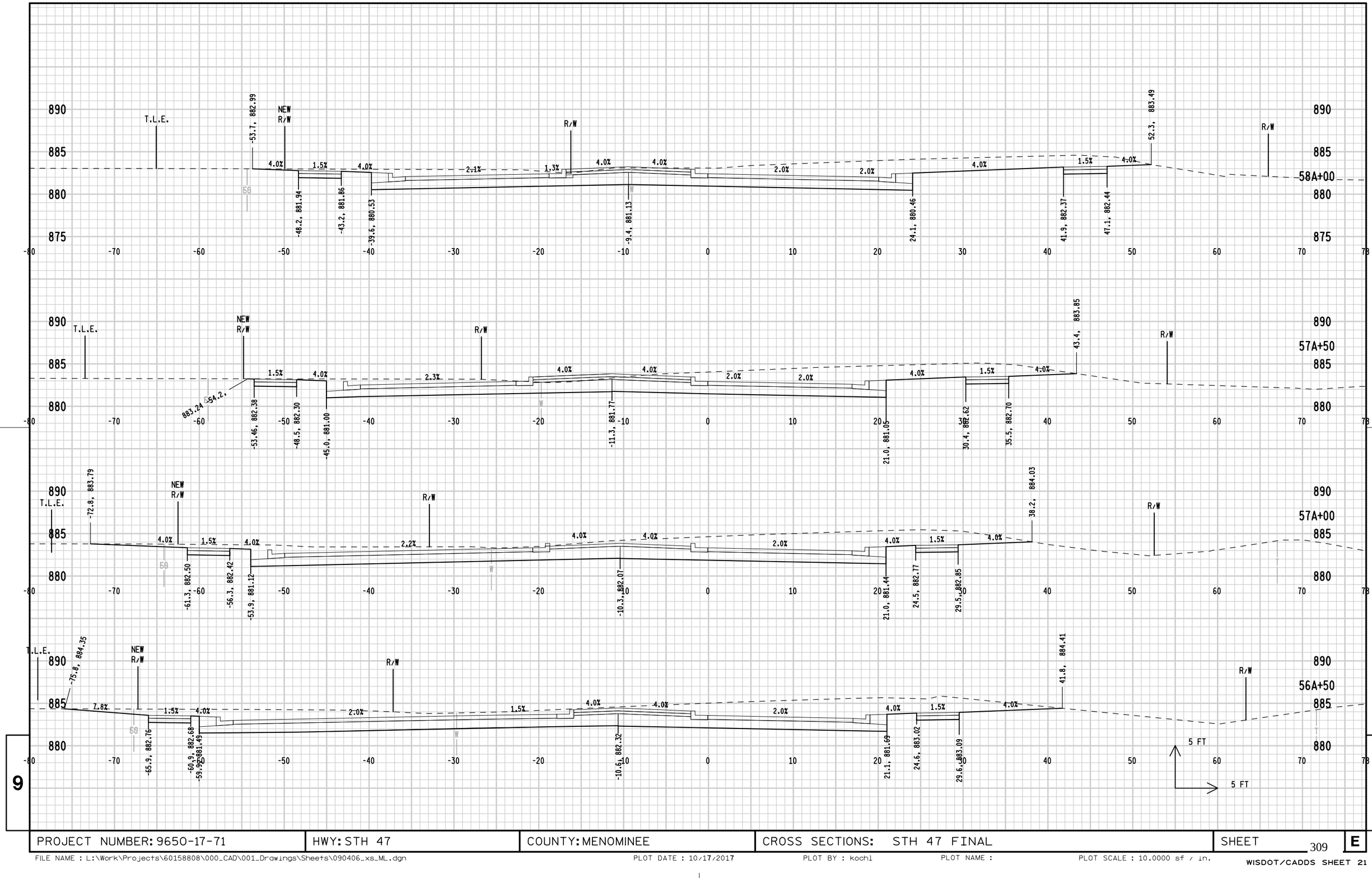
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WISDOT/CADDS SHEET 21



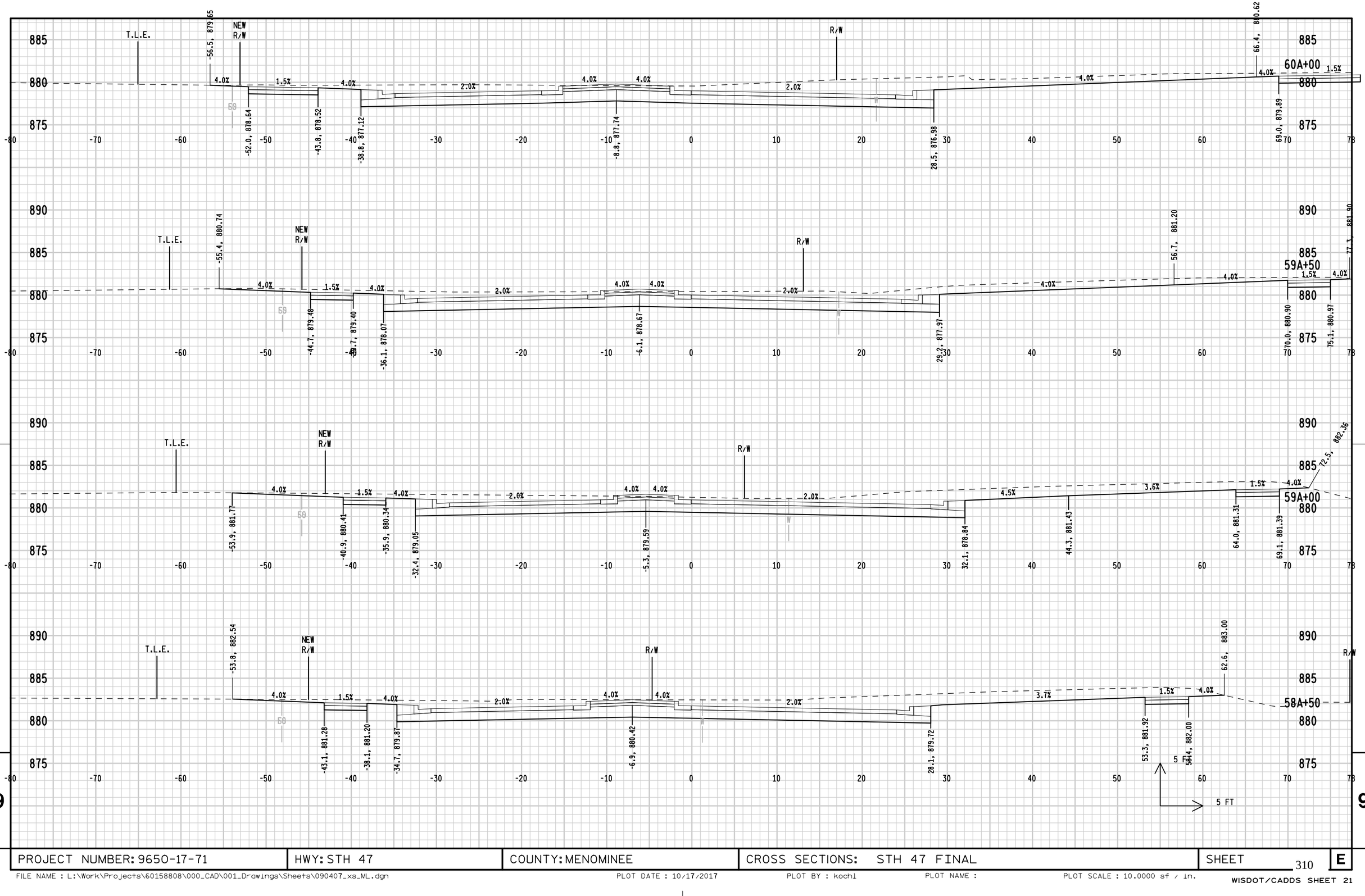
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WISDOT/CADDS SHEET 21



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WISDOT/CADDS SHEET 21

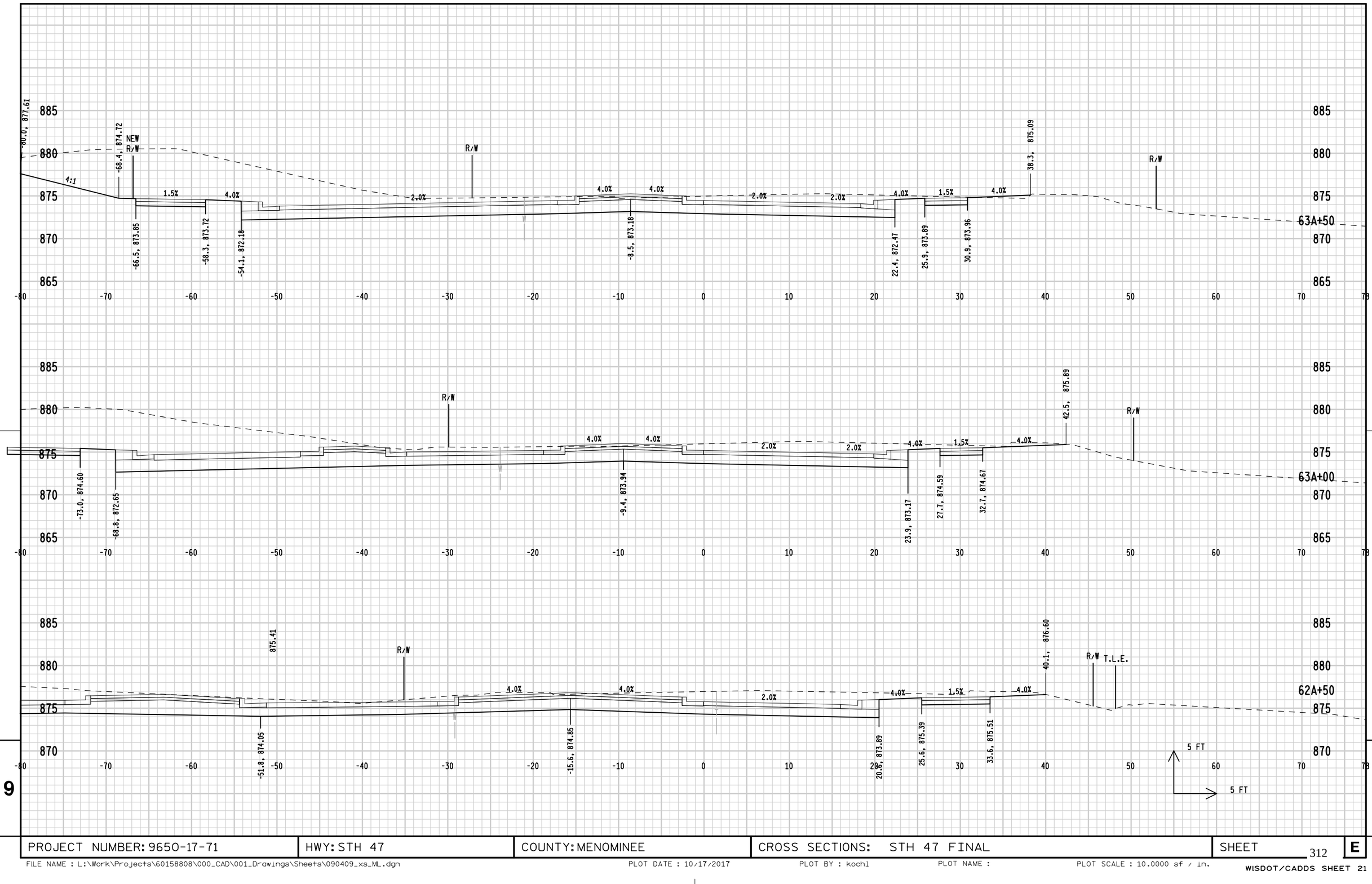
SEE ROUNDABOUT
CROSS SECTIONS



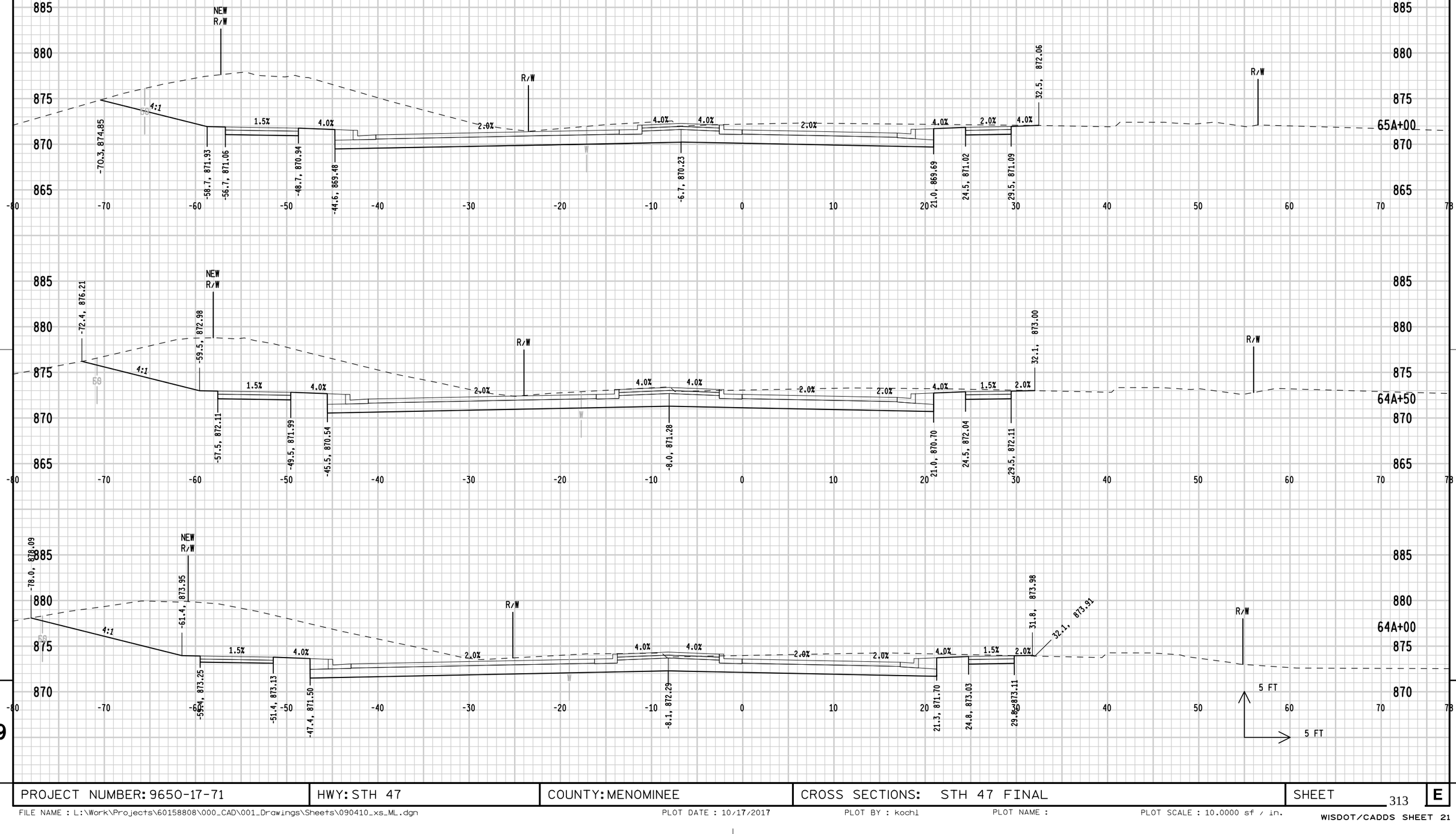
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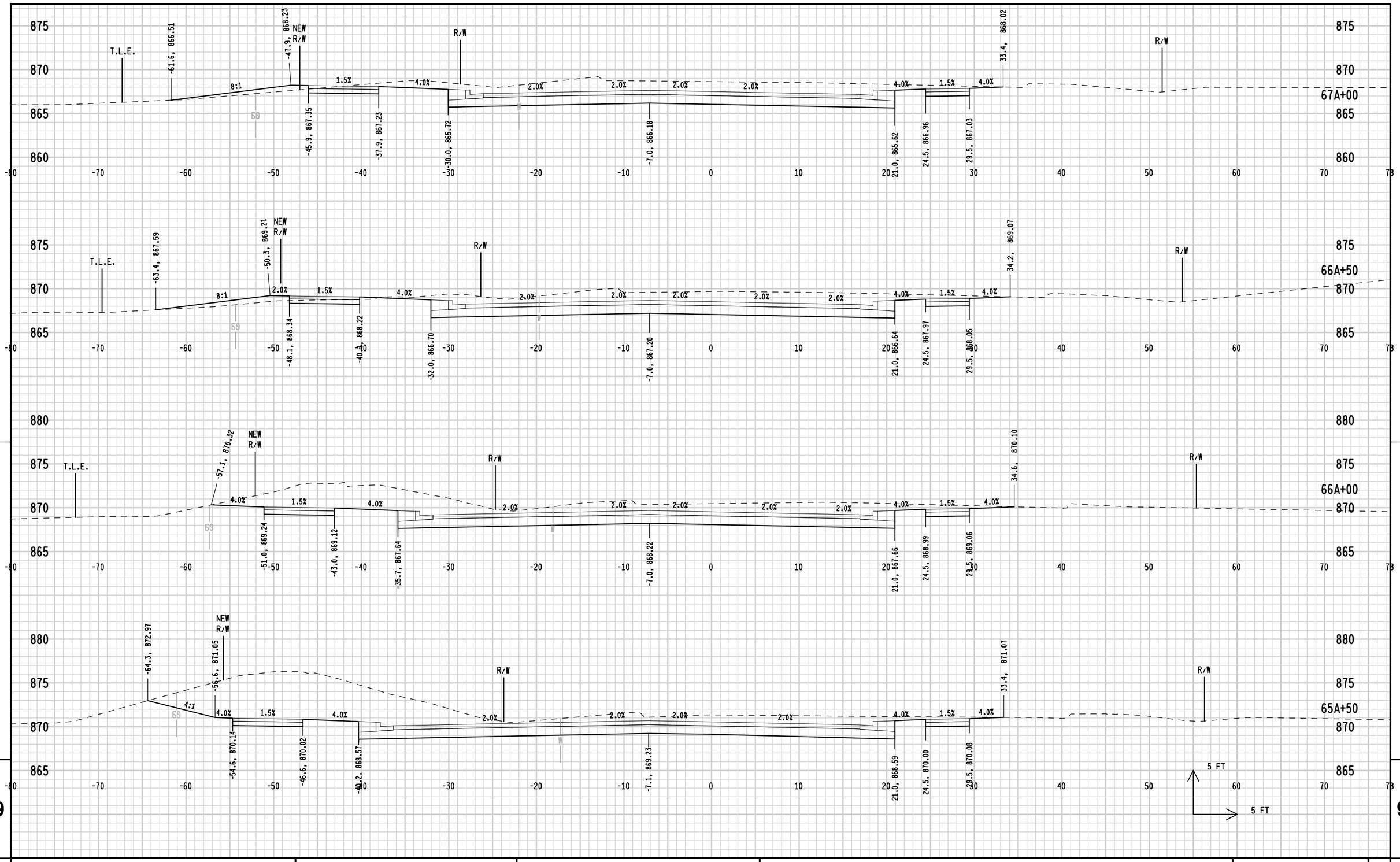
PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 FINAL	SHEET 311	E



PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 FINAL	SHEET 312 E



PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 FINAL	SHEET 313	E



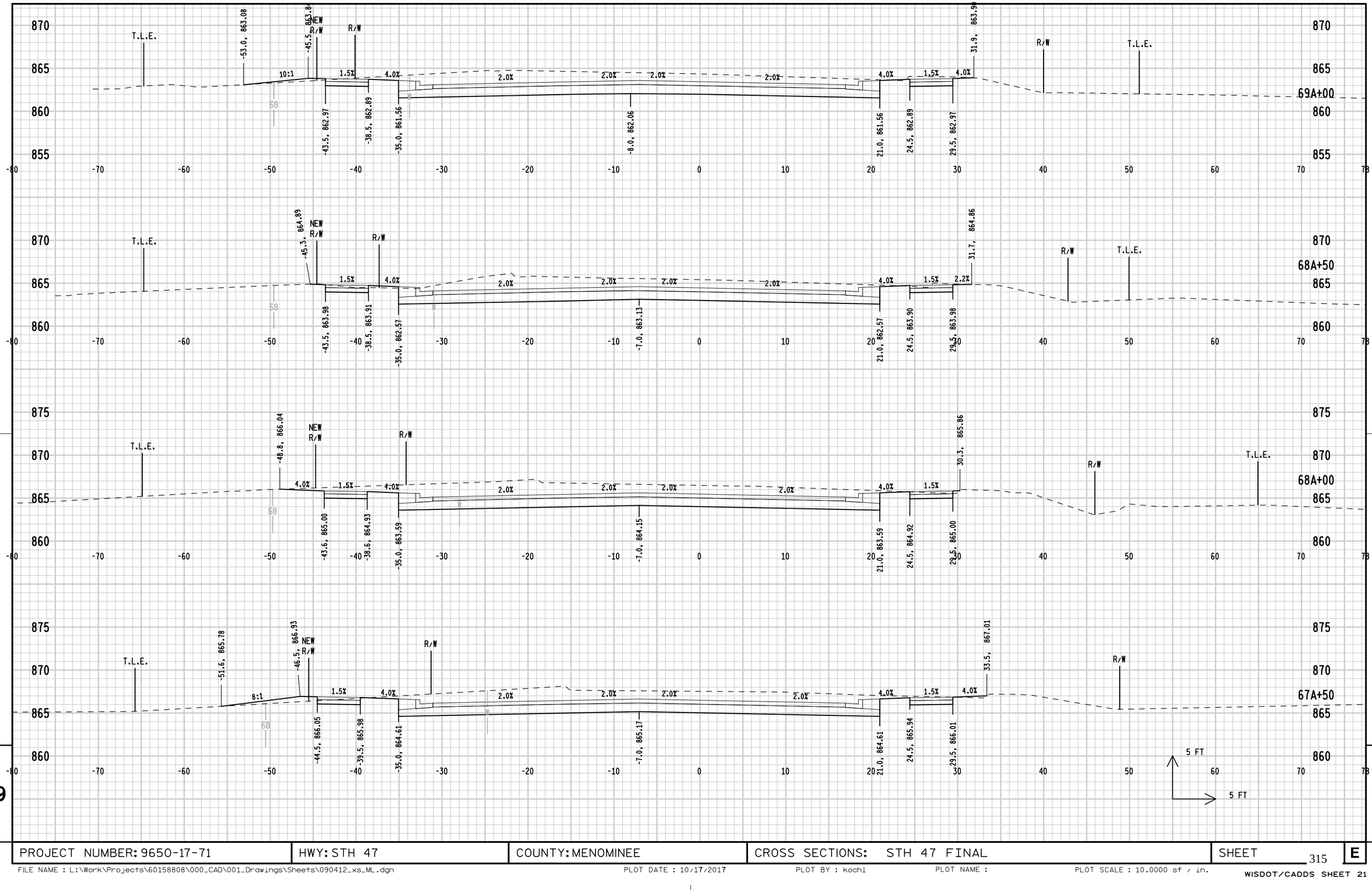
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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 FINAL	SHEET 314	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090411_xs_ML.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

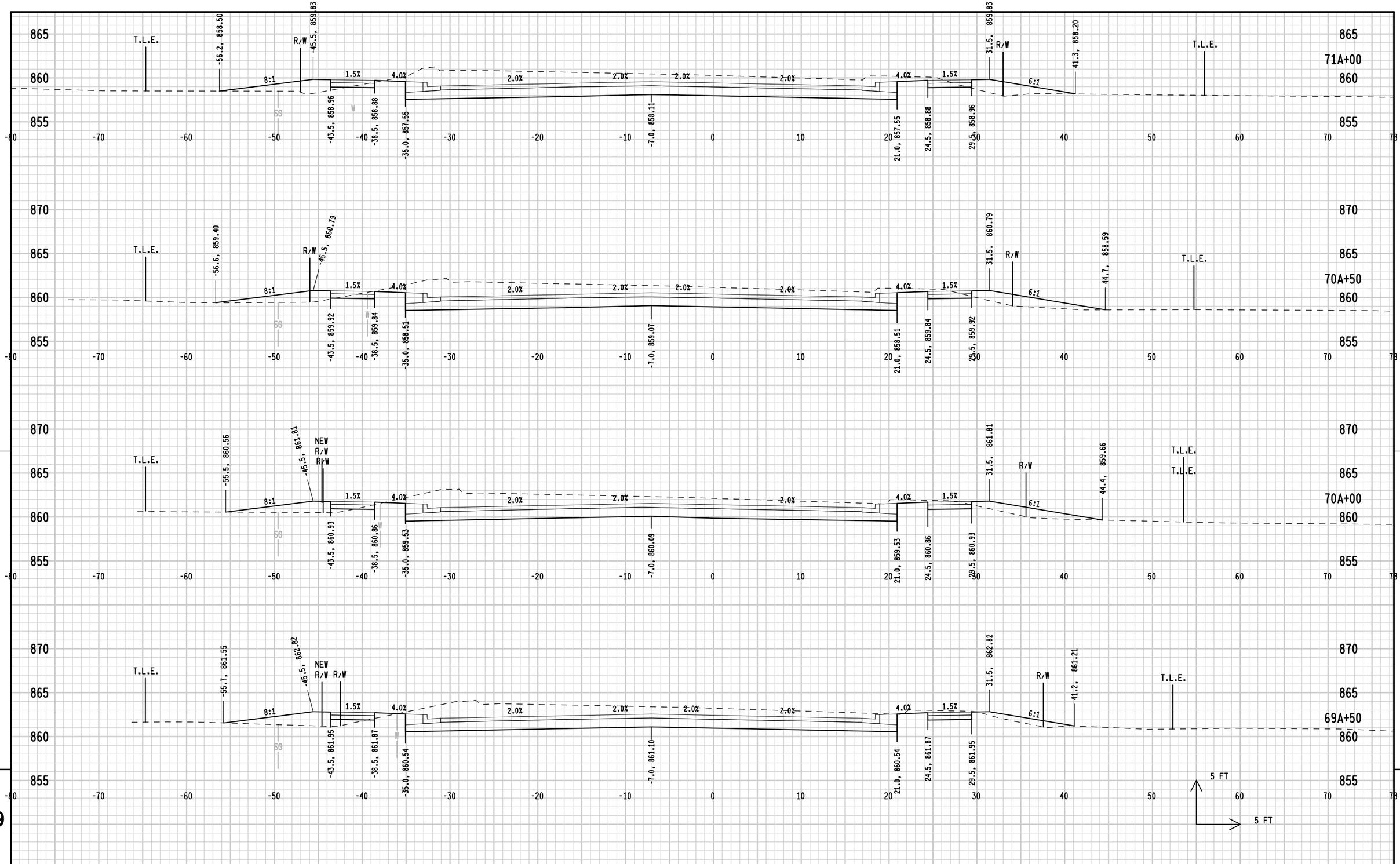
WISDOT/CADDS SHEET 21



PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 FINAL	SHEET 315	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090412_xs_ML.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21



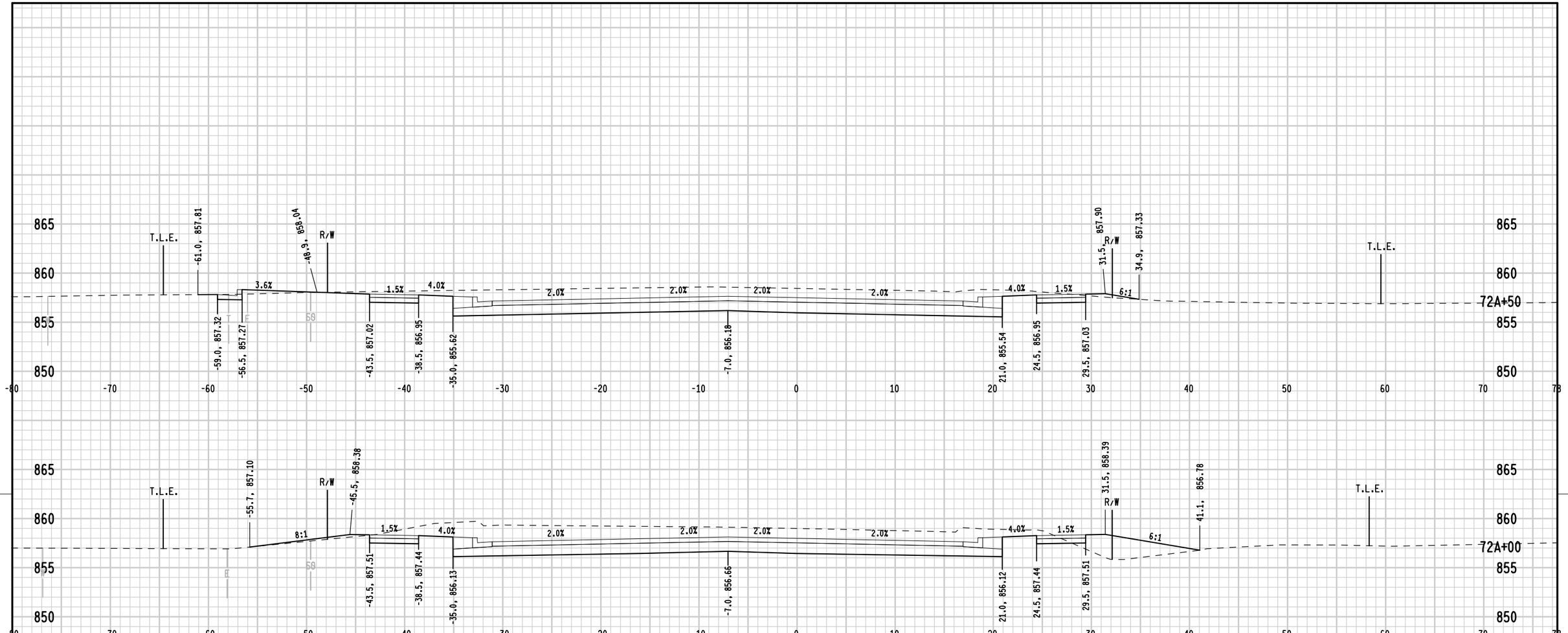
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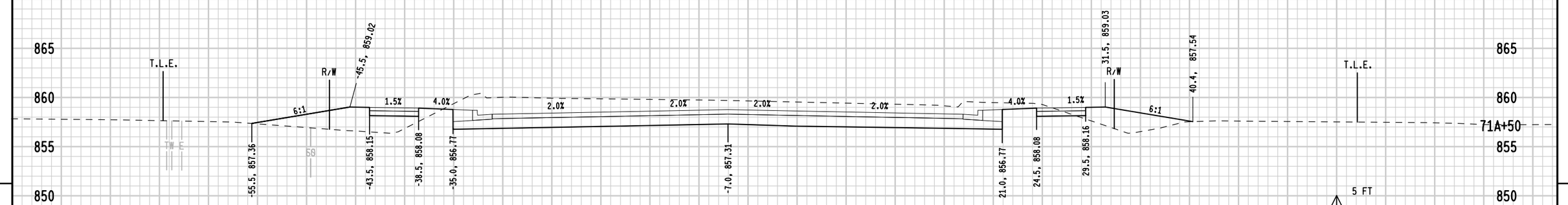
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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 FINAL	SHEET 316	E

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WISDOT/CADDS SHEET 21





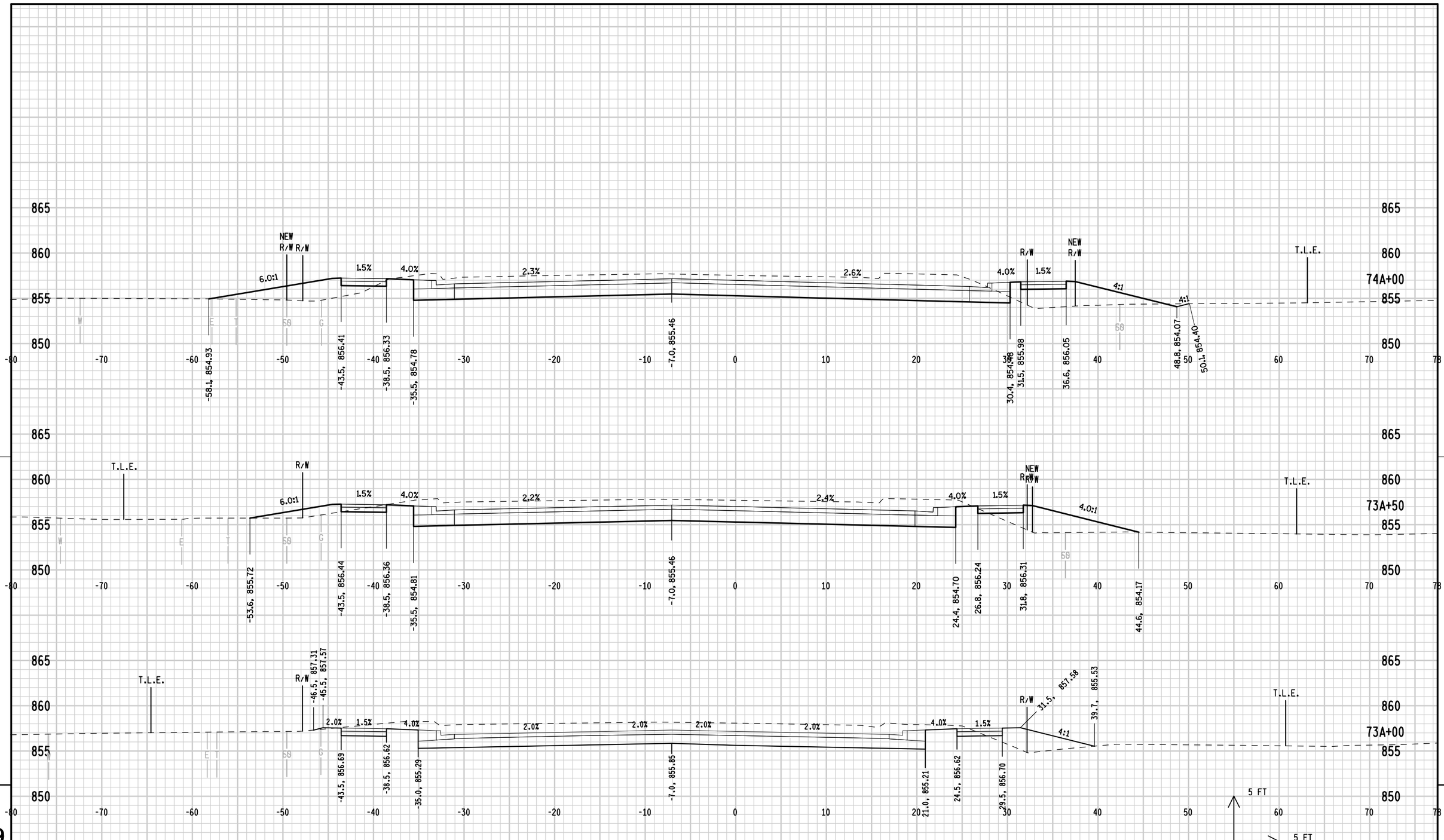
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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 FINAL	SHEET 317	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090414_xs_ML.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21

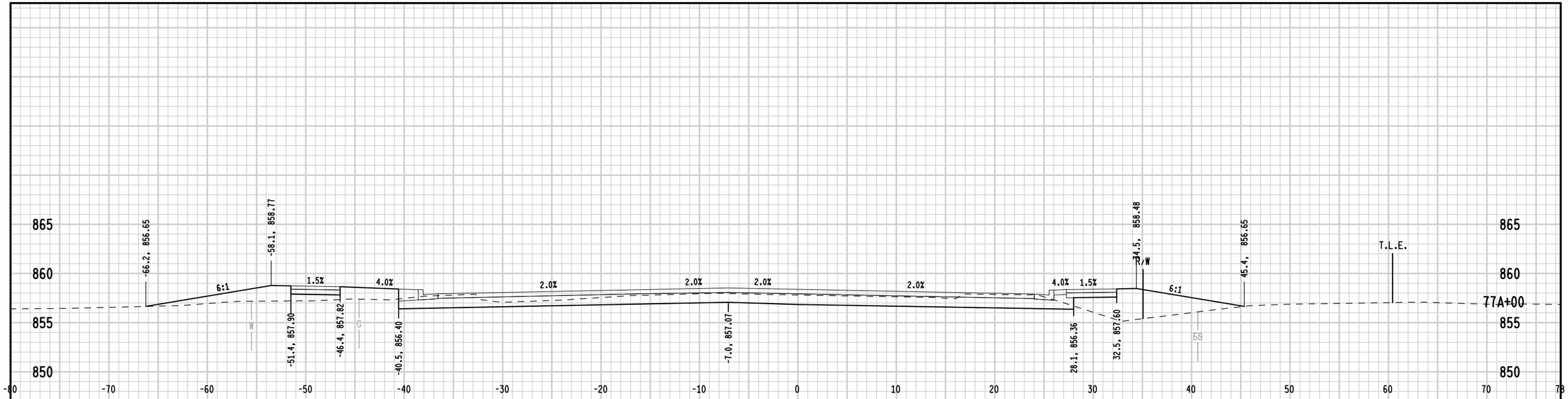


PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 FINAL	SHEET 318	E

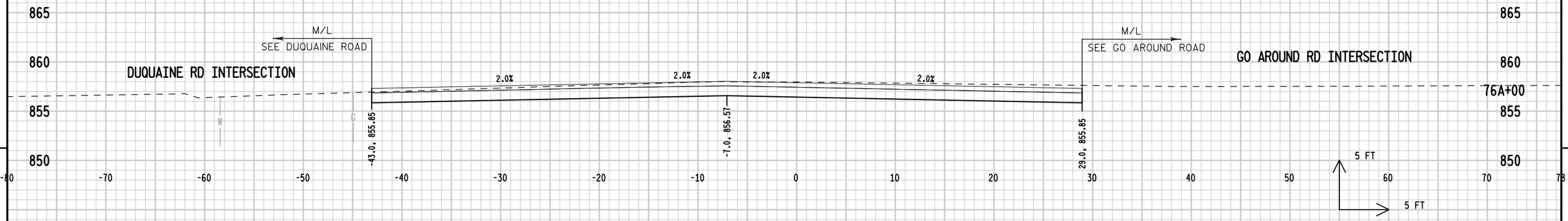
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WISDOT/CADDS SHEET 21

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 FINAL	SHEET 319	E

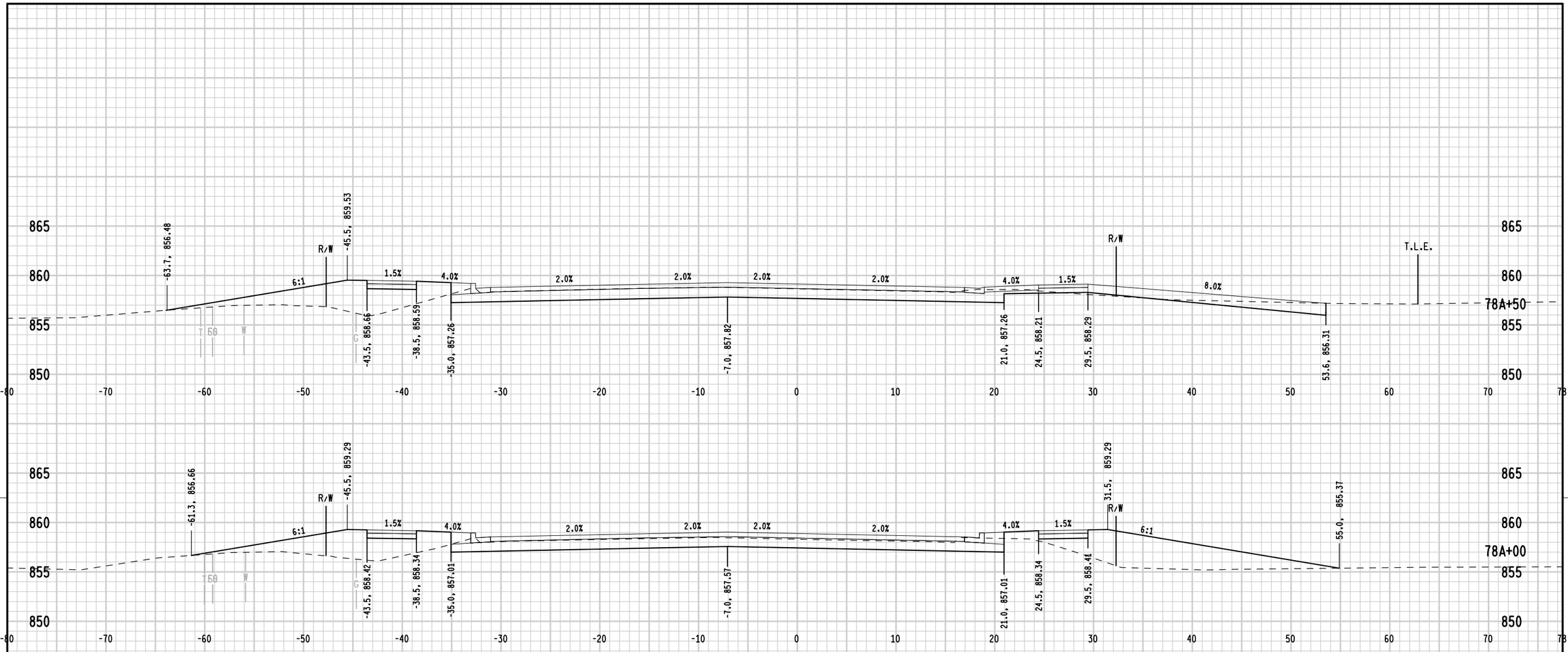






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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 FINAL	SHEET 320	E



9

9

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 FINAL	SHEET 321	E

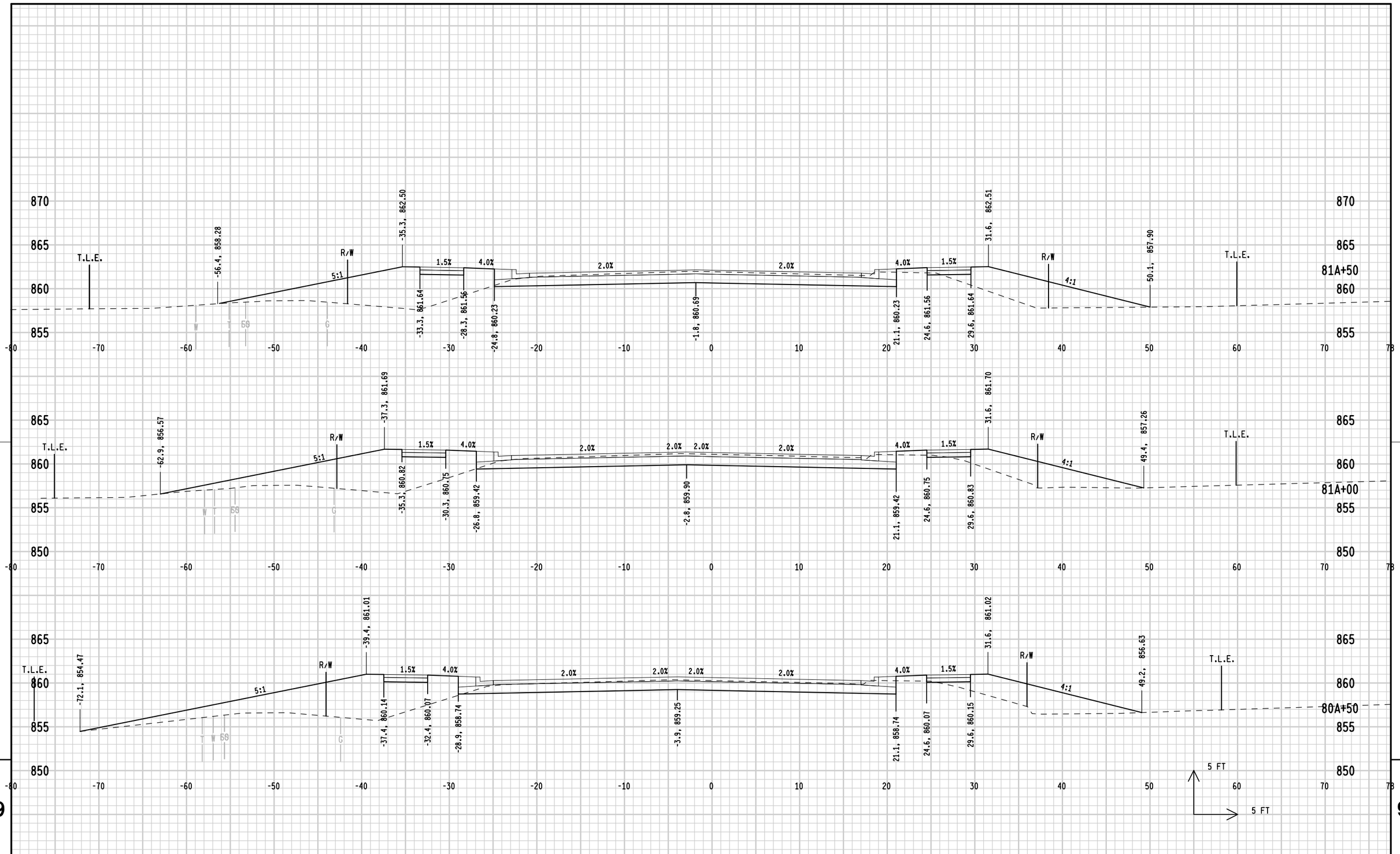
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WISDOT/CADDS SHEET 21

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 FINAL	SHEET	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090419_xs_ML.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21

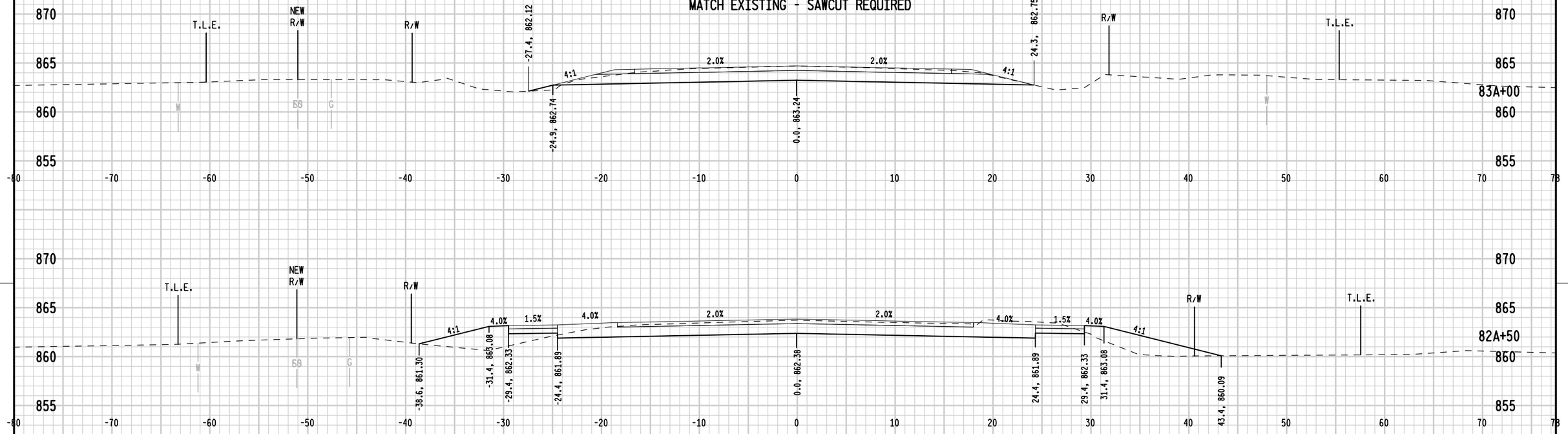


PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 FINAL	SHEET 323	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090420_xs_ML.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21

END PROJECT 9650-17-71
STA 83A+00.00
MATCH EXISTING - SAWCUT REQUIRED



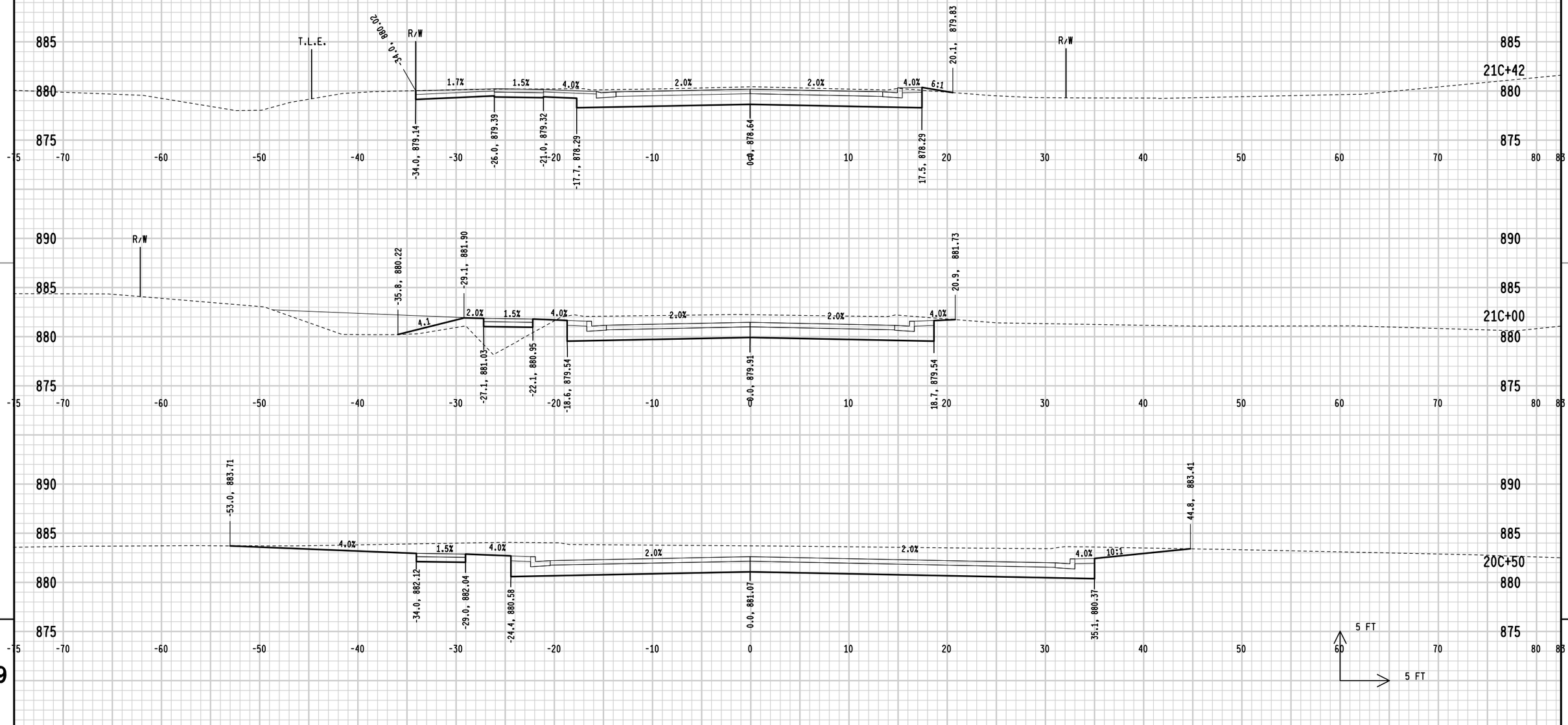
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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 FINAL	SHEET 324	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090421_xs_ML.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21

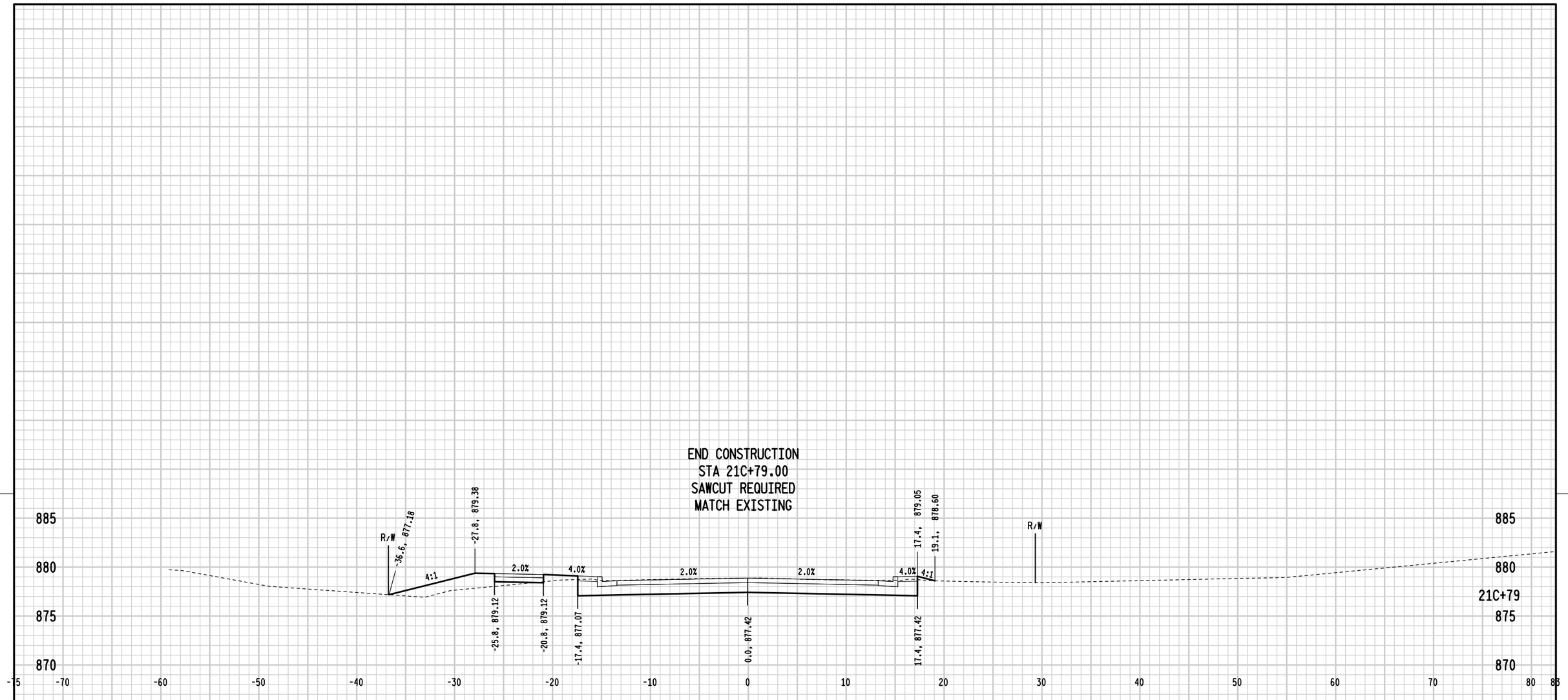


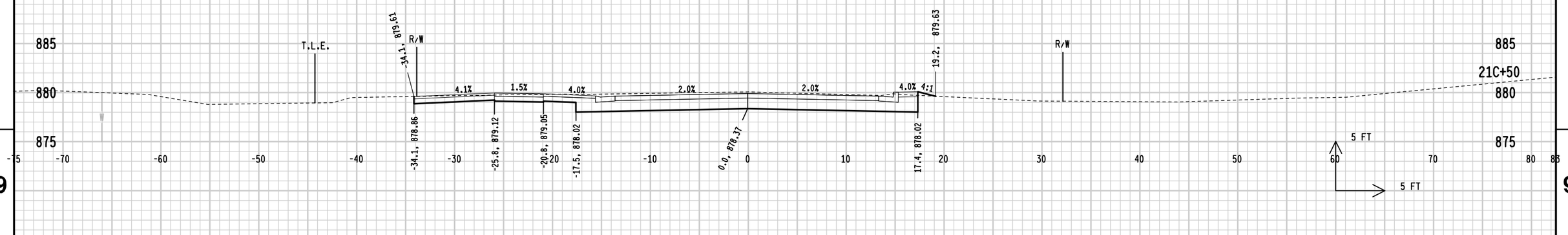
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9

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: CAMPUS DRIVE	SHEET 325	E

END CONSTRUCTION
STA 21C+79.00
SAWCUT REQUIRED
MATCH EXISTING

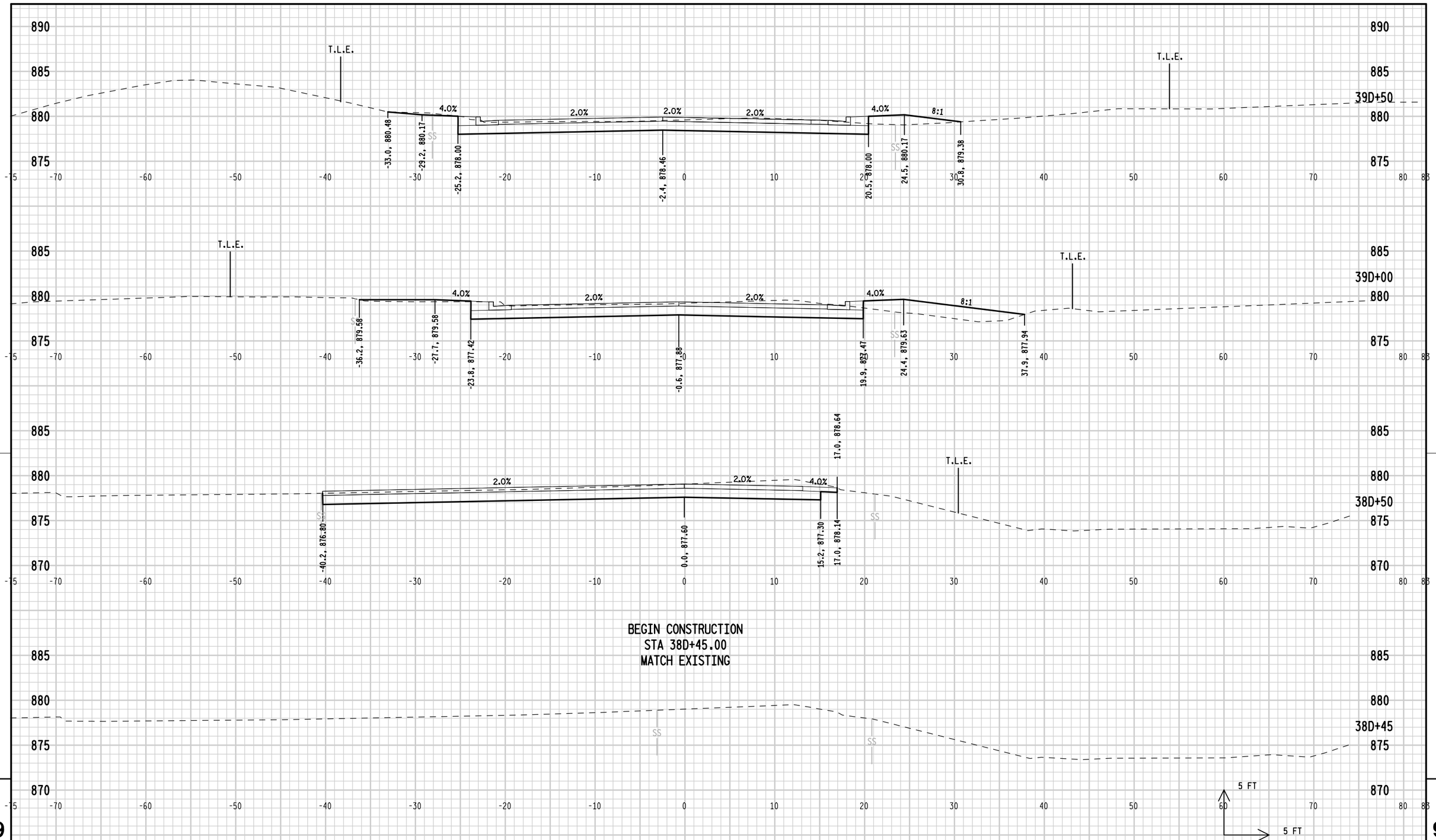




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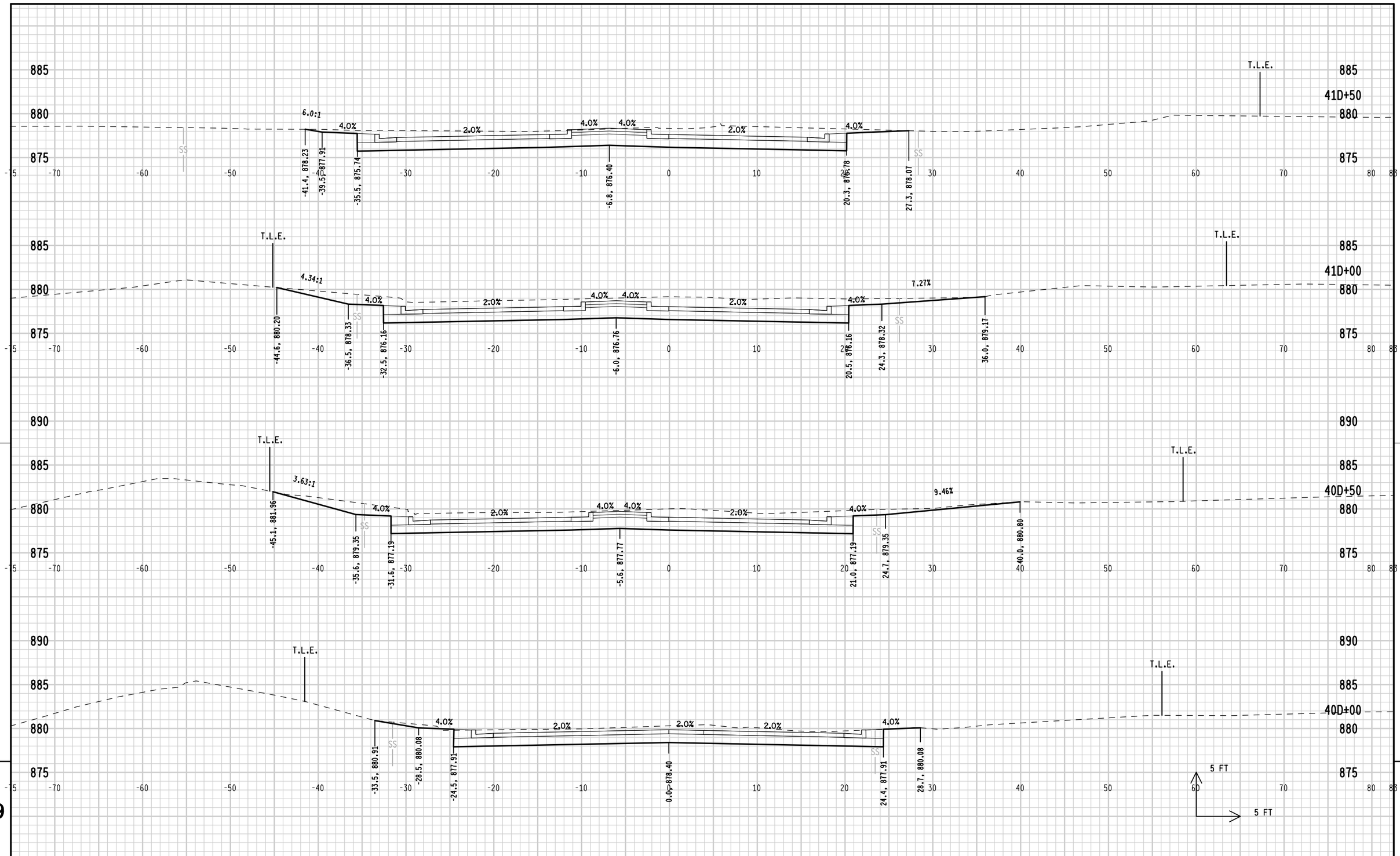
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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: CAMPUS DRIVE	SHEET 326	E



PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STANDING PINES DRIVE	SHEET 327	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090801_xs_StandingPines.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.
WISDOT/CADDS SHEET 21



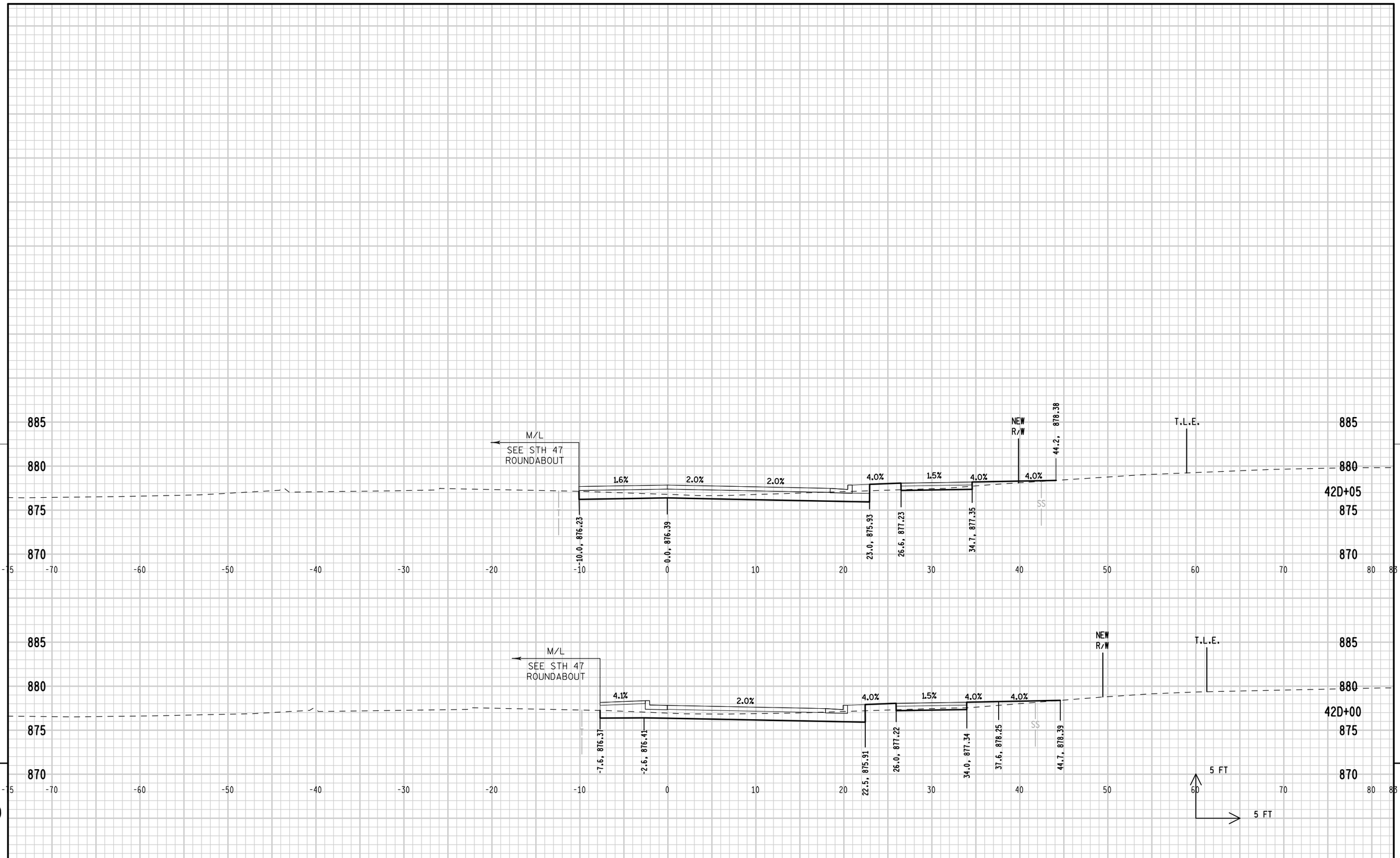
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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STANDING PINES DRIVE	SHEET 328	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090802_xs_StandingPines.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21

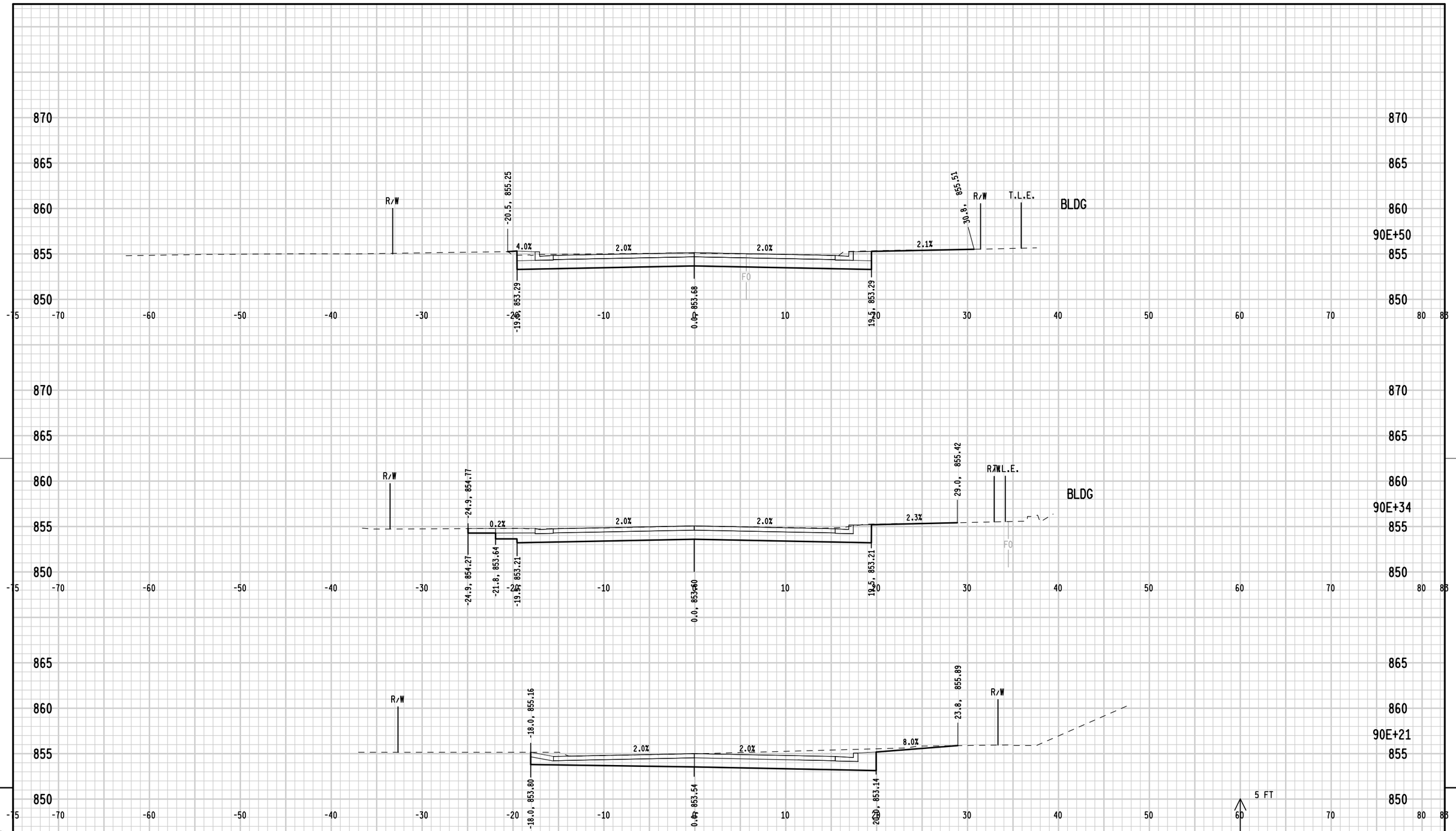


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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STANDING PINES DRIVE	SHEET 329	E

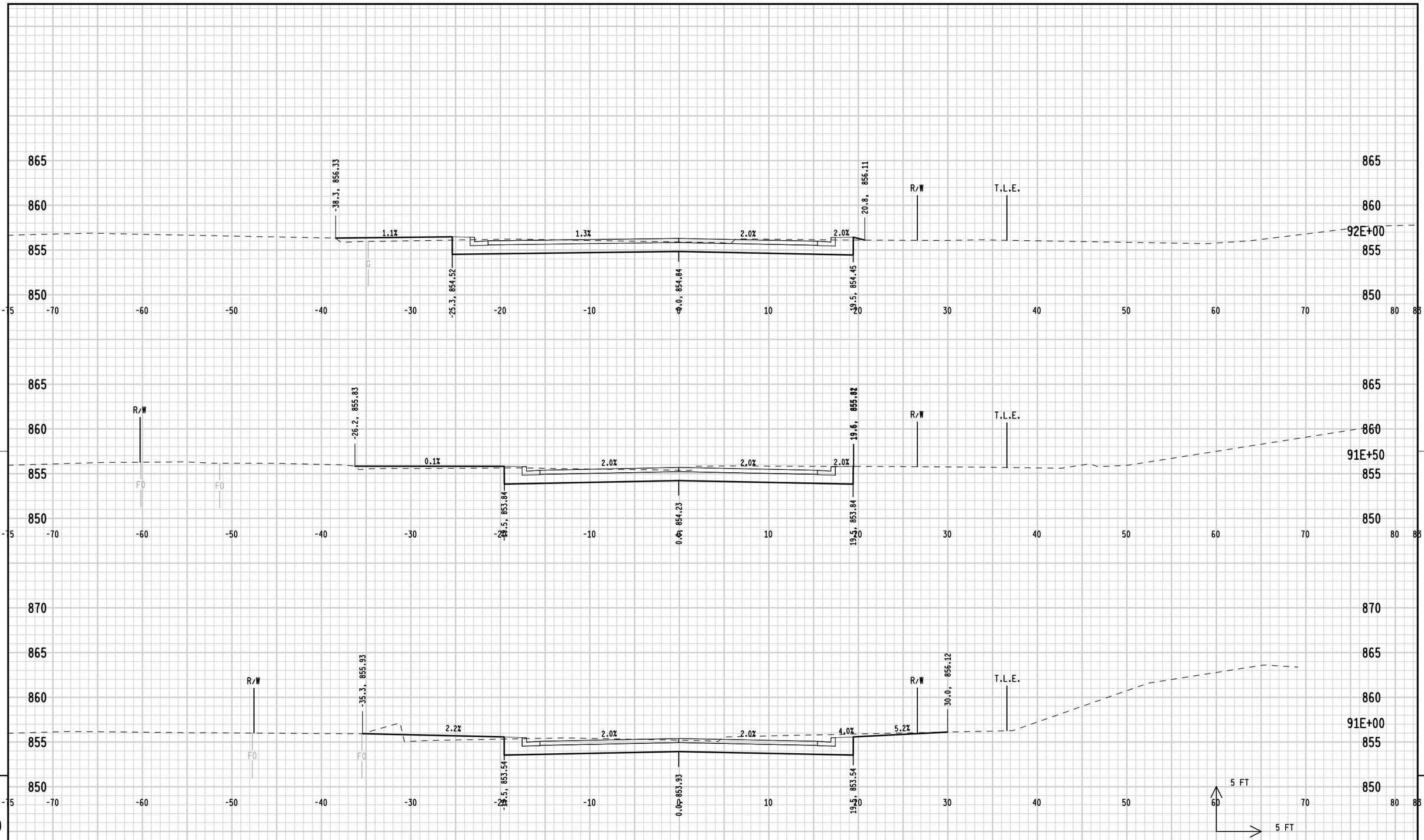
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WISDOT/CADDS SHEET 21



BEGIN CONSTRUCTION
STA 90E+21.00
SAWCUT REQUIRED - MATCH EXISTING

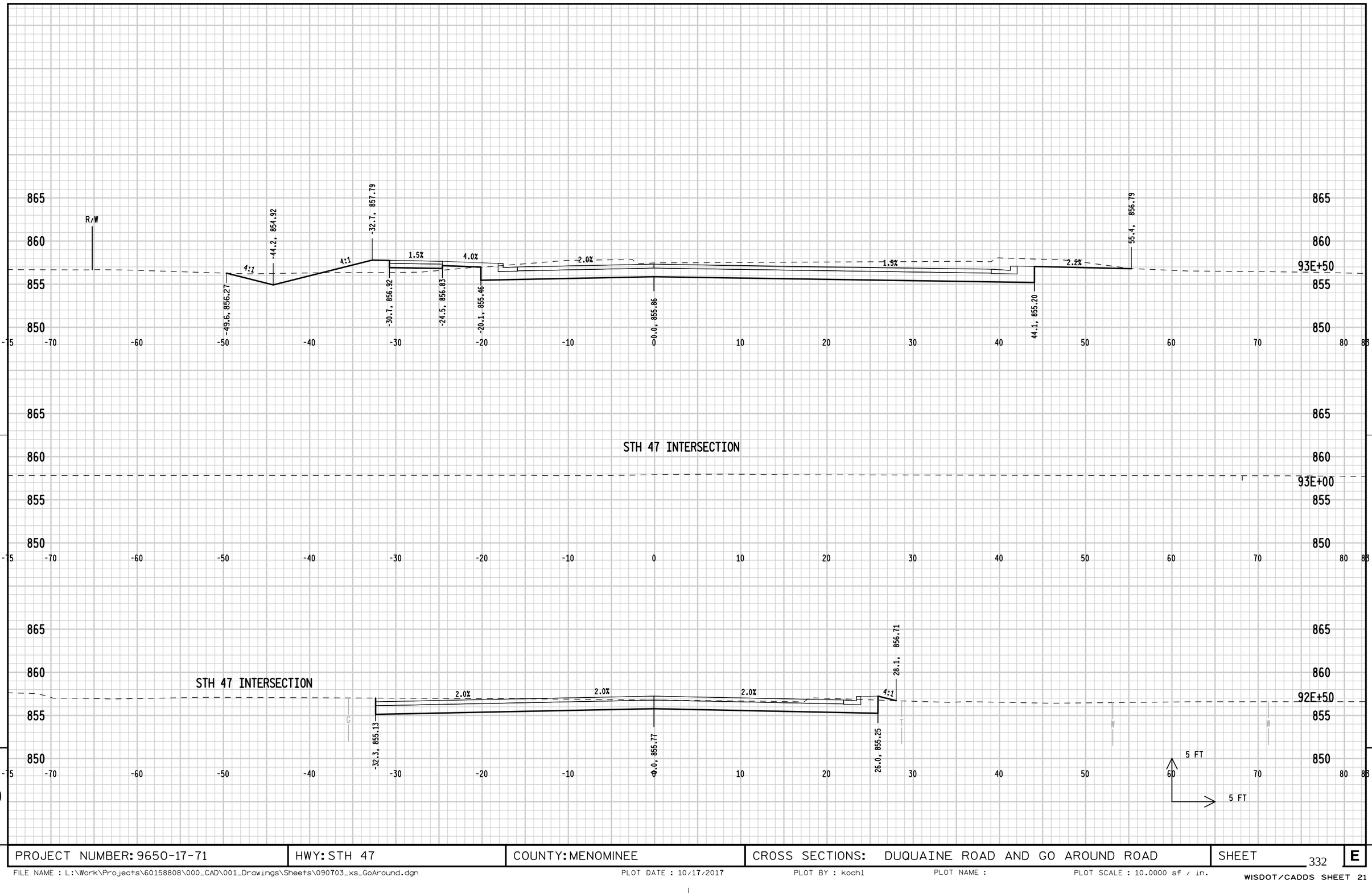
PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: DUQUAINE ROAD	SHEET 330	E



PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: DUQUAINE ROAD	SHEET 331	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090702_xs_GoAround.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

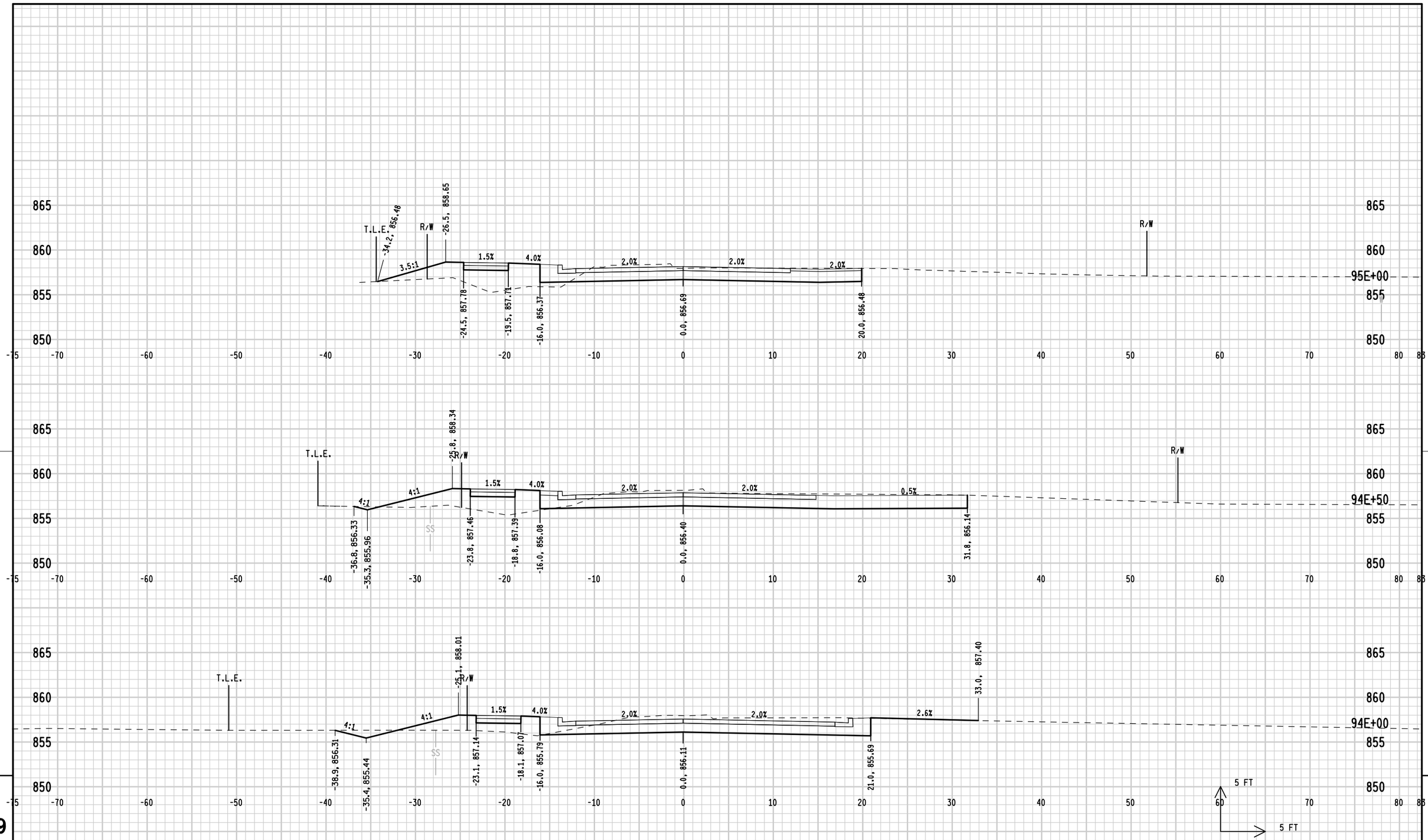
WISDOT/CADDS SHEET 21



PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: DUQUAINE ROAD AND GO AROUND ROAD	SHEET 332	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090703_xs_GoAround.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21



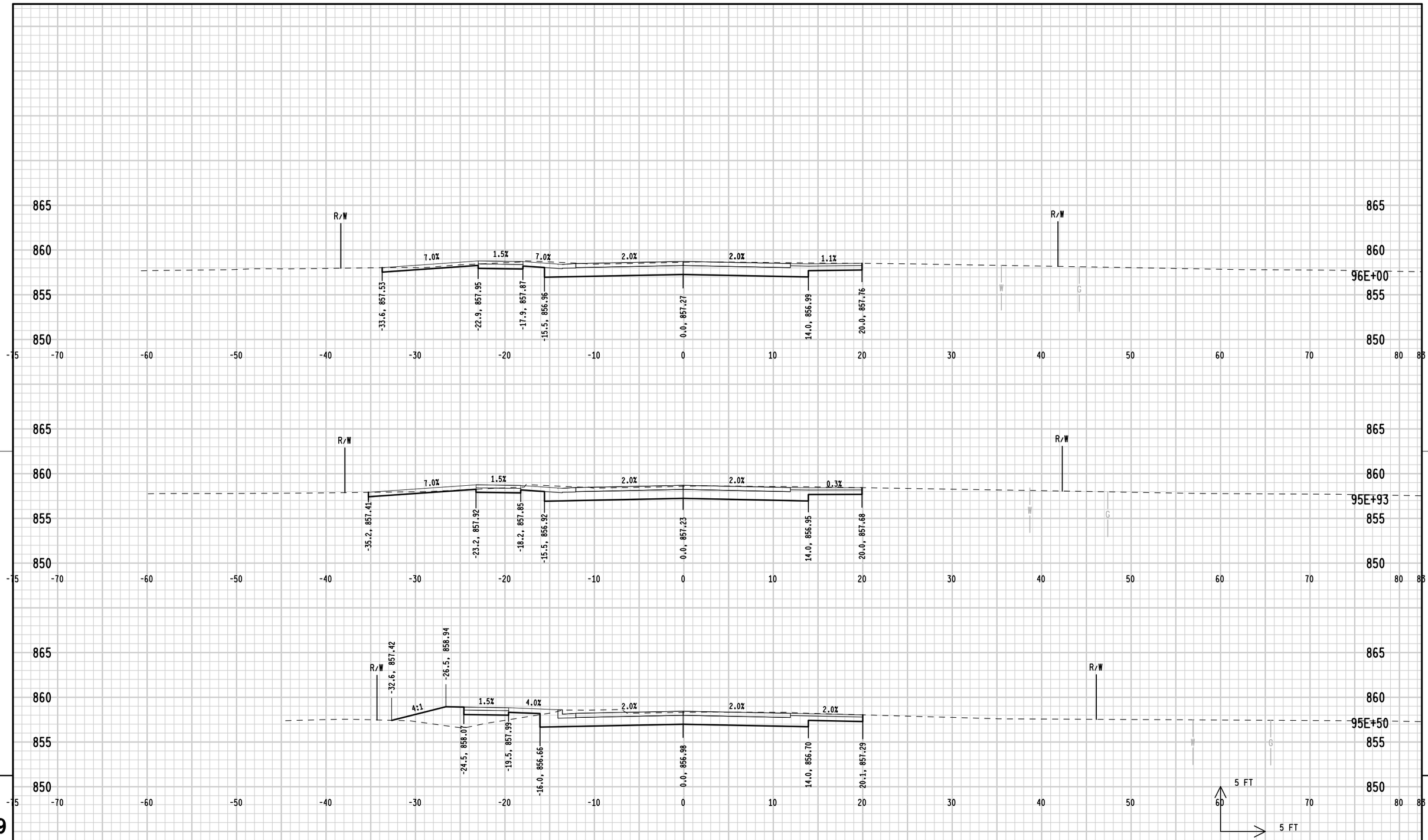
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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: GO AROUND ROAD	SHEET 333	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090704_xs_GoAround.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21

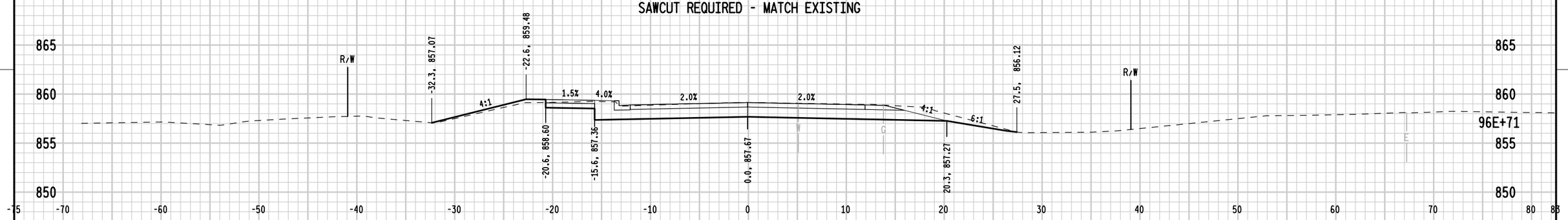


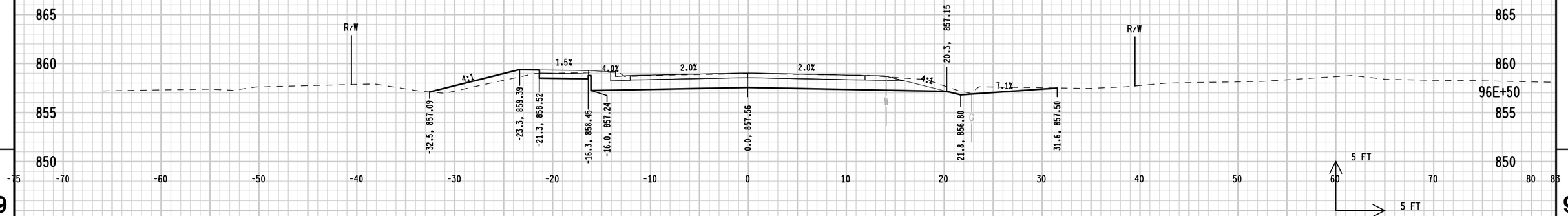
PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: GO AROUND ROAD	SHEET 334	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090705_xs_GoAround.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21

END CONSTRUCTION
STA 96E+71.00
SAWCUT REQUIRED - MATCH EXISTING



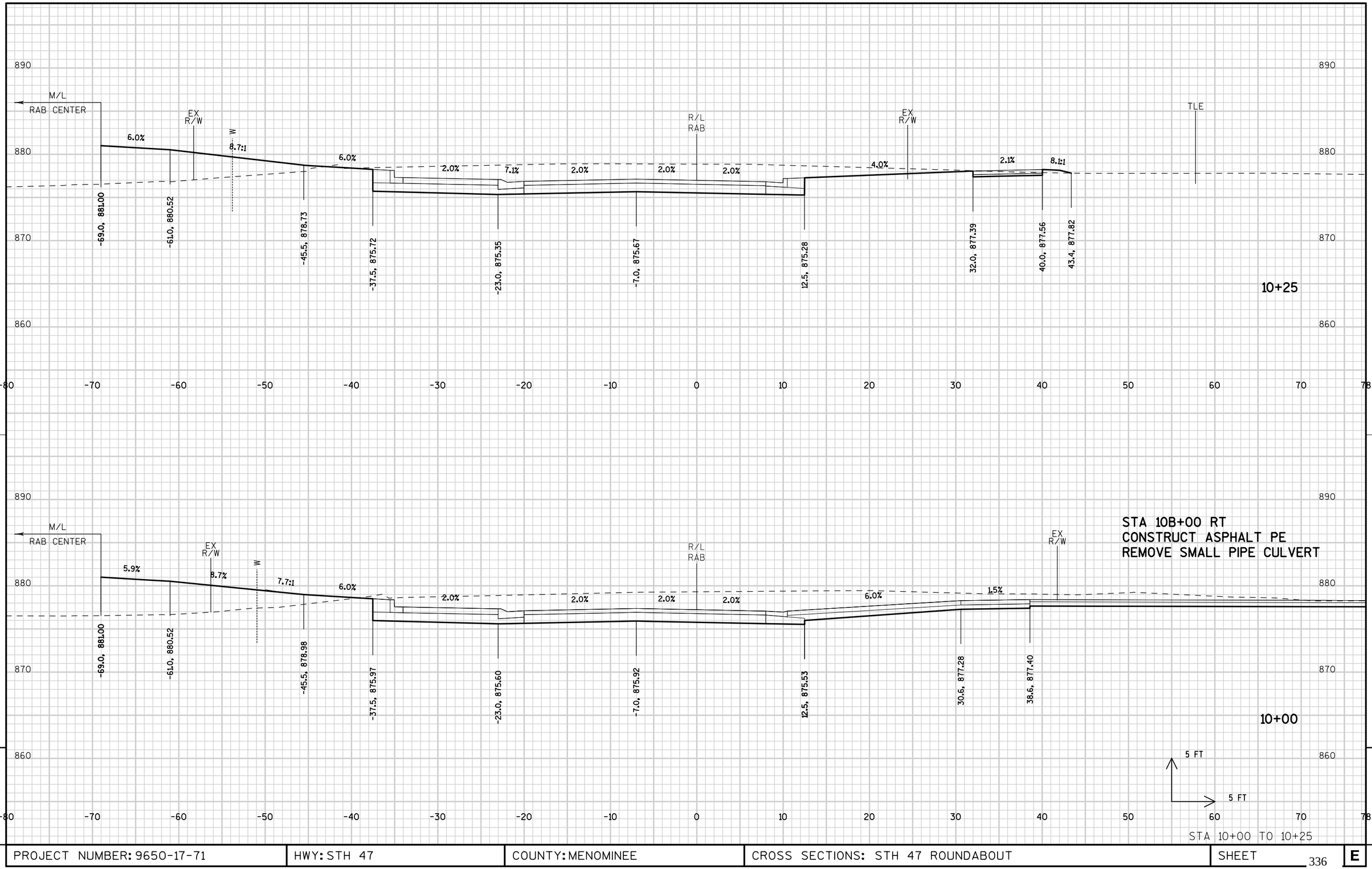


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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: GO AROUND ROAD	SHEET 335	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090706_xs_GoAround.dgn
PLOT DATE : 10/17/2017
PLOT BY : kochl
PLOT NAME :
PLOT SCALE : 10.0000 sf / in.
WISDOT/CADDS SHEET 21



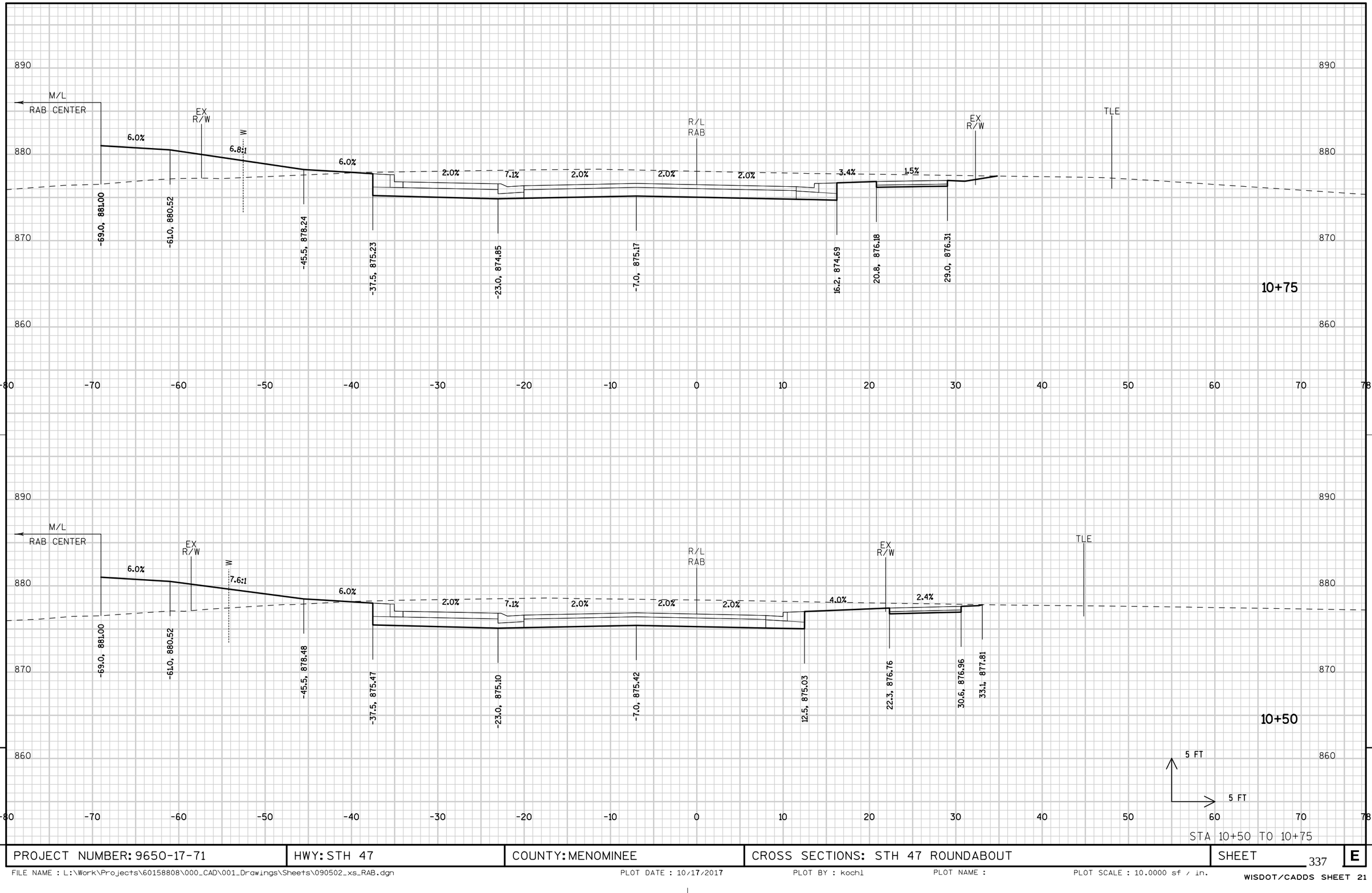
STA 10B+00 RT
CONSTRUCT ASPHALT PE
REMOVE SMALL PIPE CULVERT

5 FT
5 FT

STA 10+00 TO 10+25

9 9

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 ROUNDABOUT	SHEET 336	E

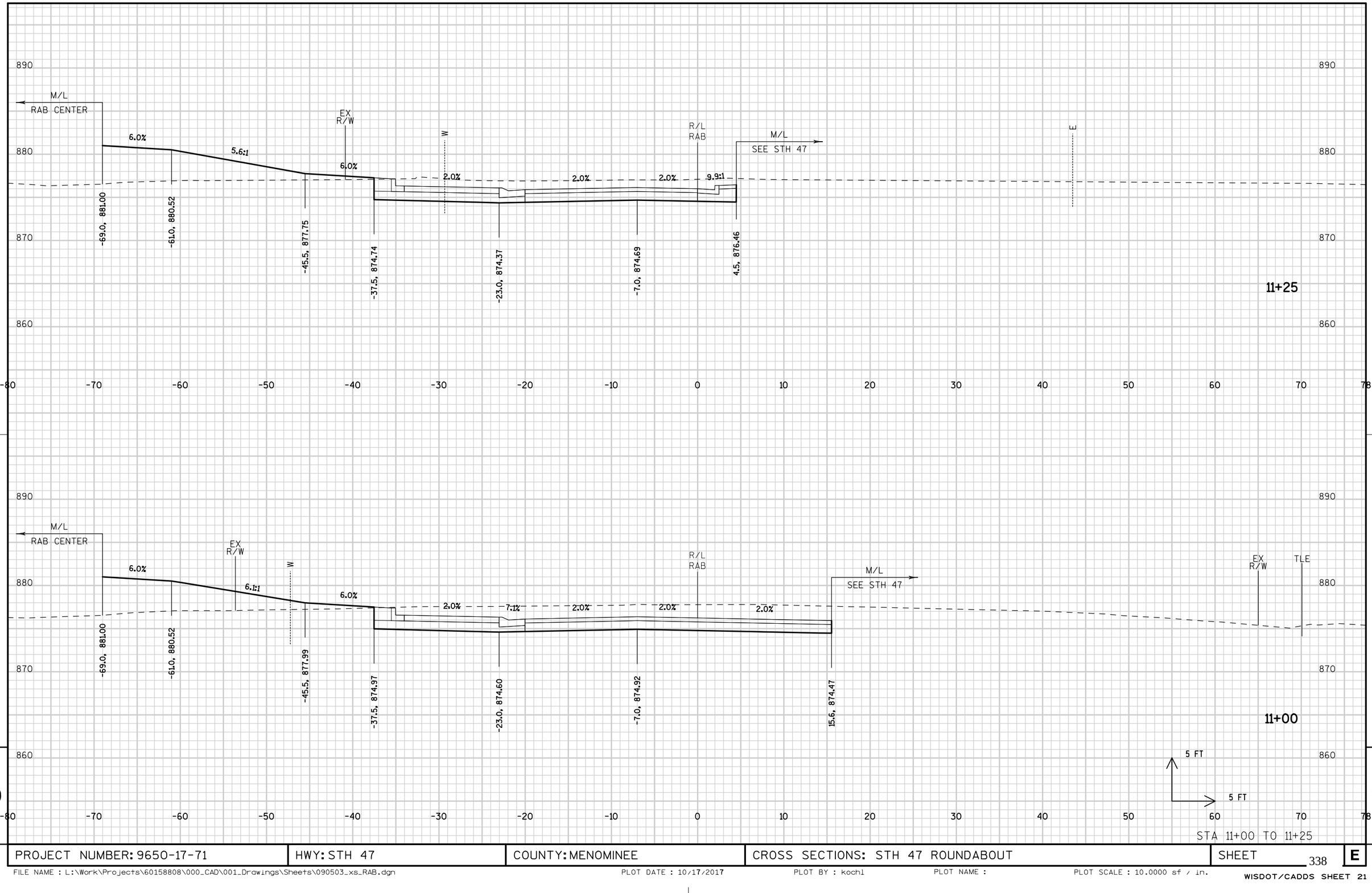


STA 10+50 TO 10+75

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 ROUNDABOUT	SHEET 337	E

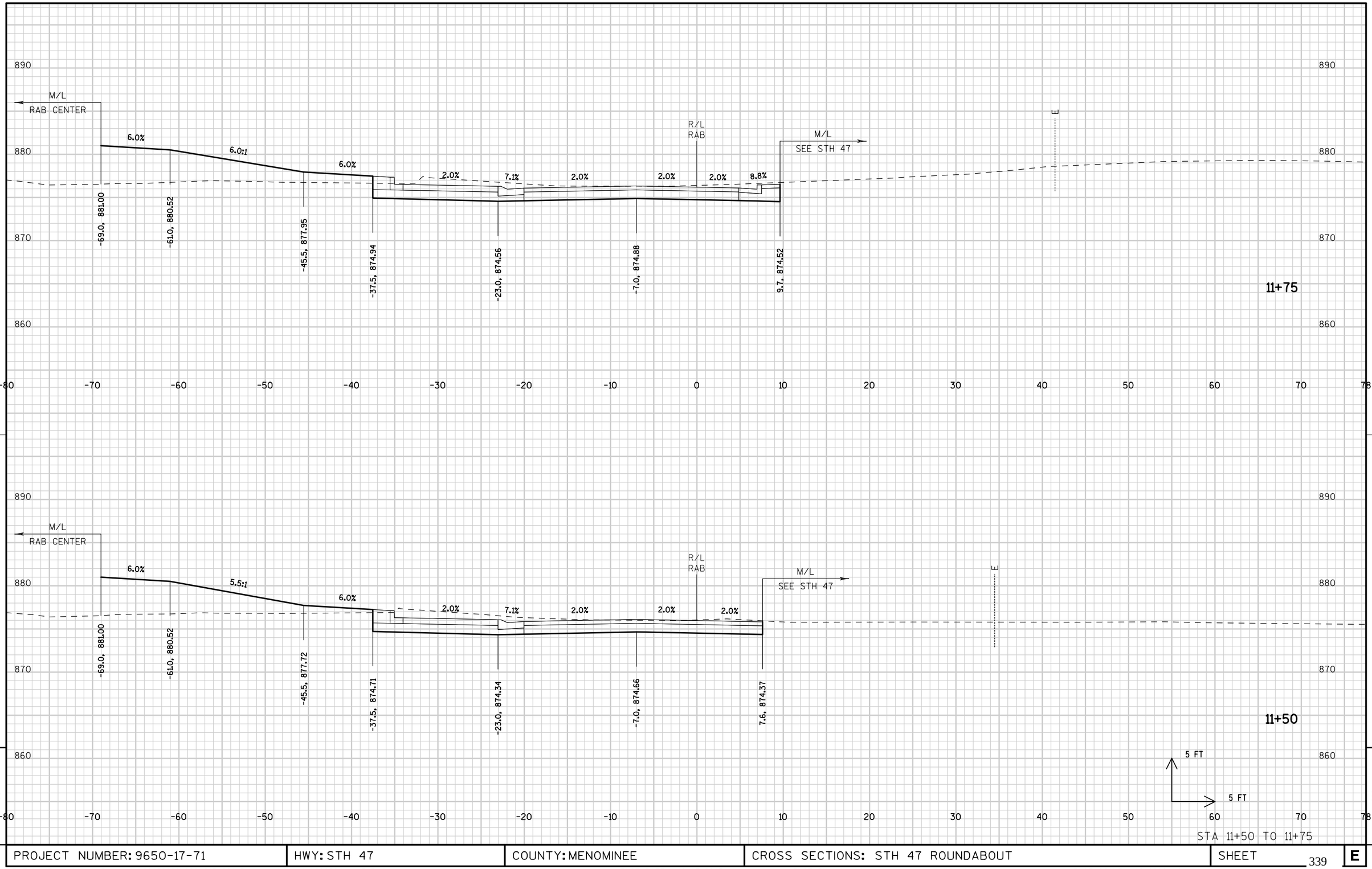
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WISDOT/CADDS SHEET 21



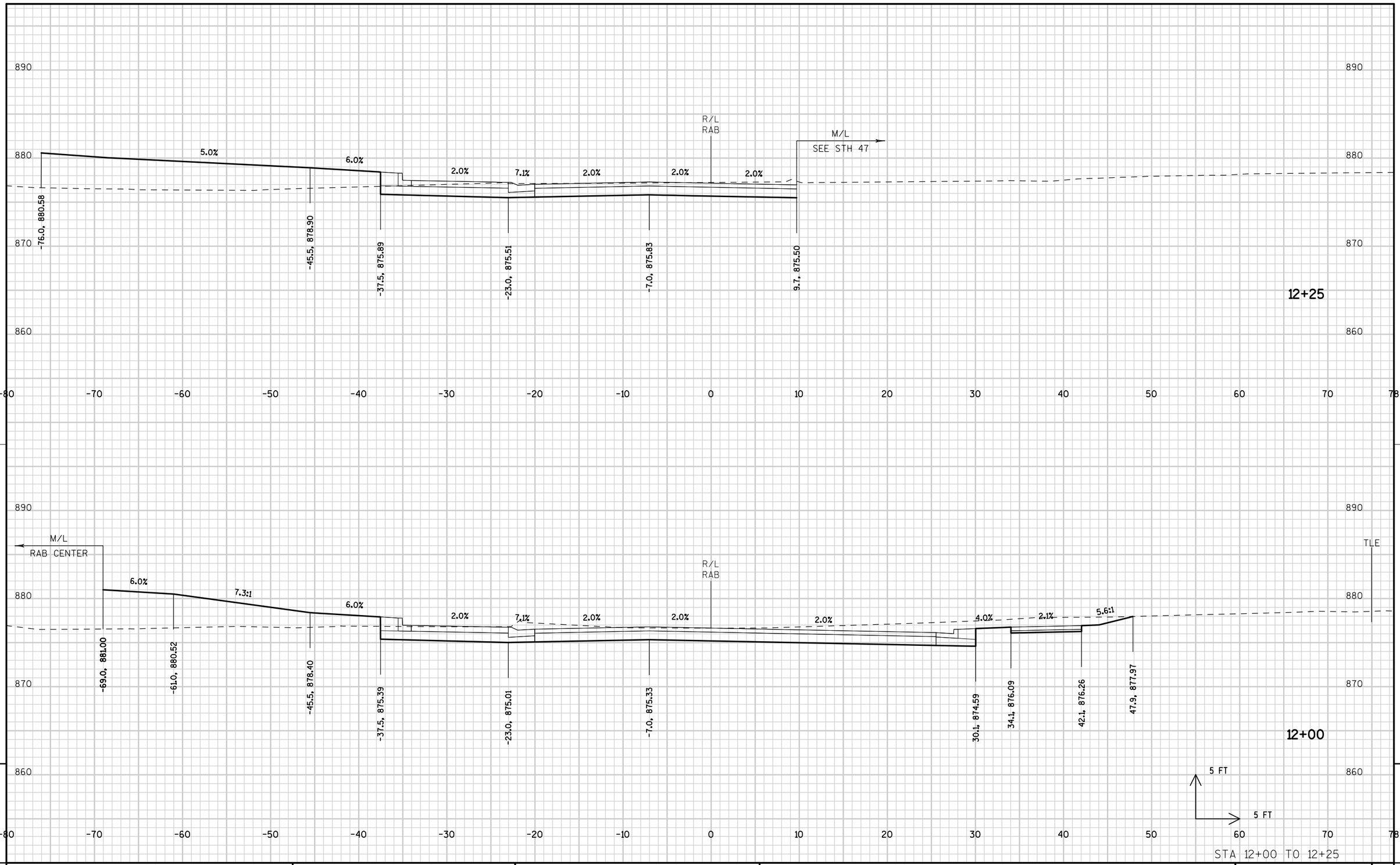
STA 11+00 TO 11+25

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 ROUNDABOUT	SHEET 338	E

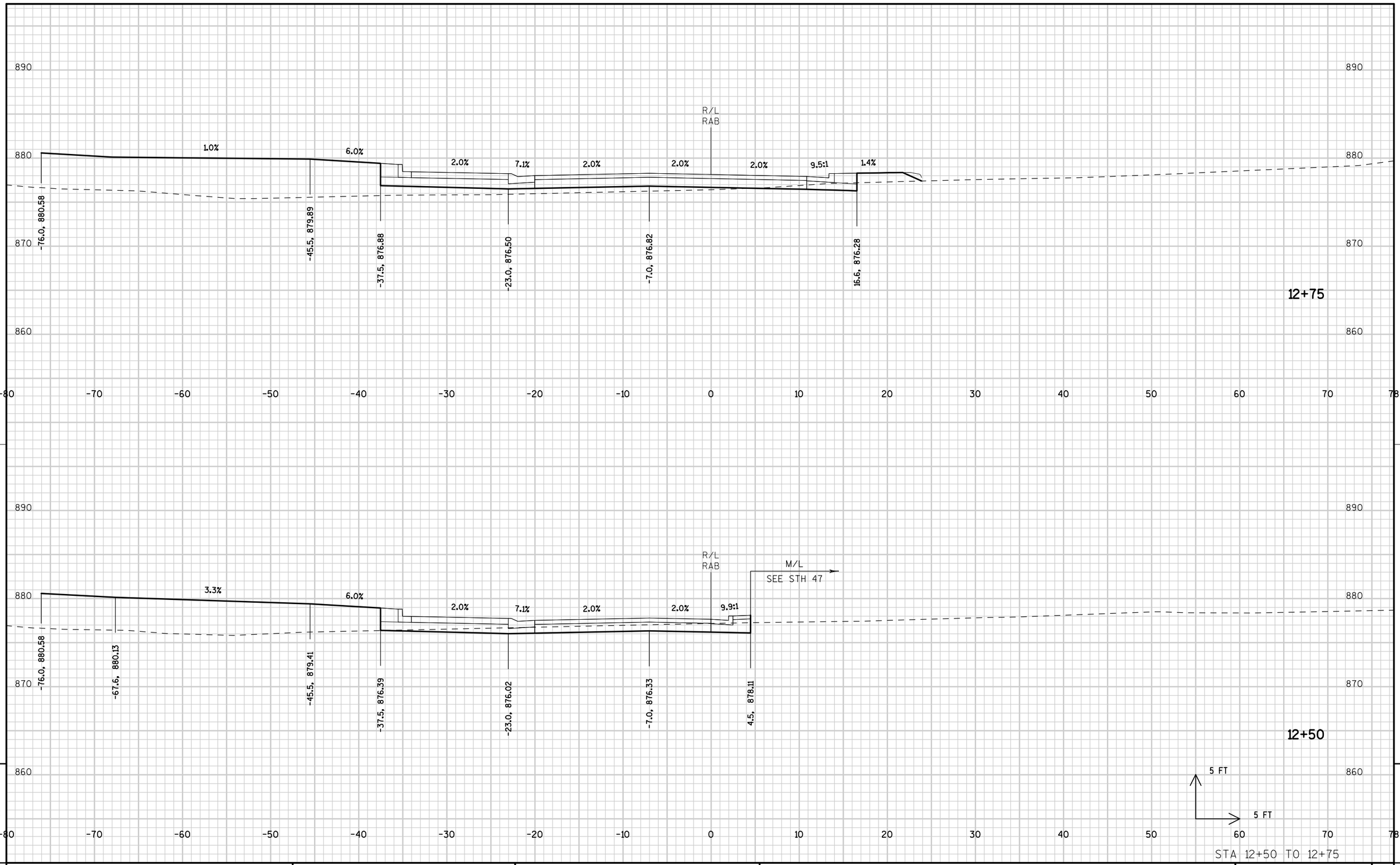


STA 11+50 TO 11+75

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 ROUNDABOUT	SHEET 339	E

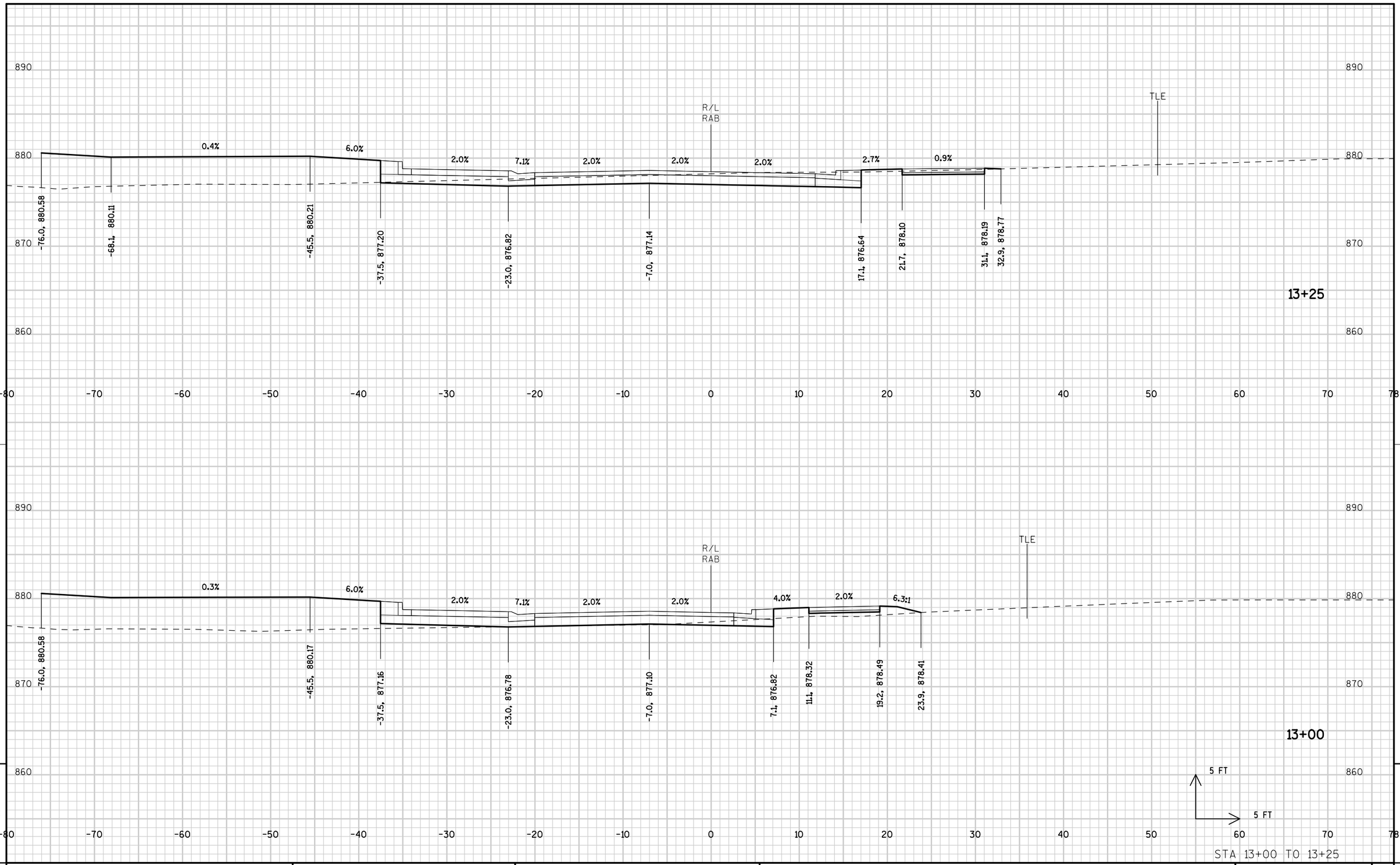


PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 ROUNDABOUT	SHEET 340 E



STA 12+50 TO 12+75

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 ROUNDABOUT	SHEET 341	E

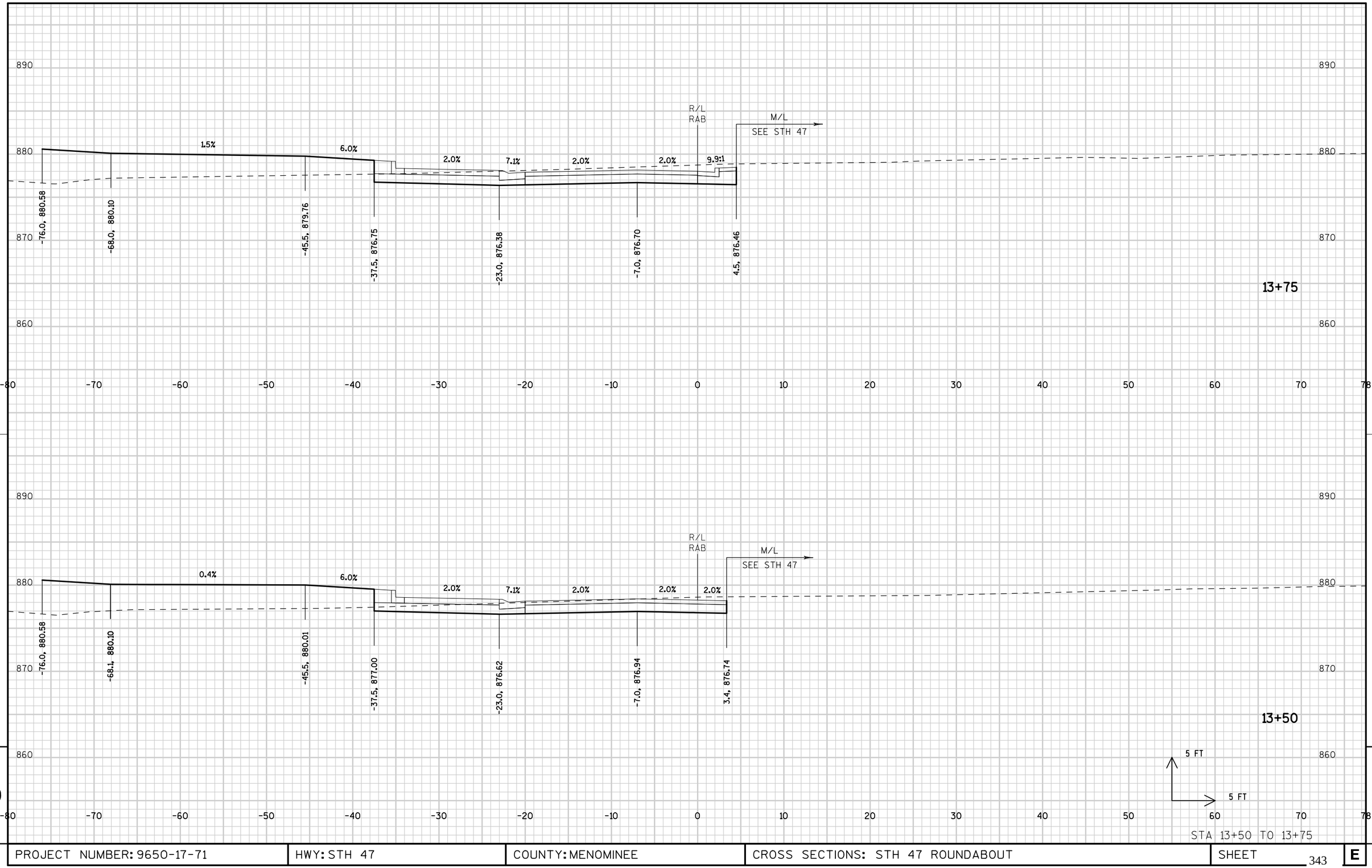


STA 13+00 TO 13+25

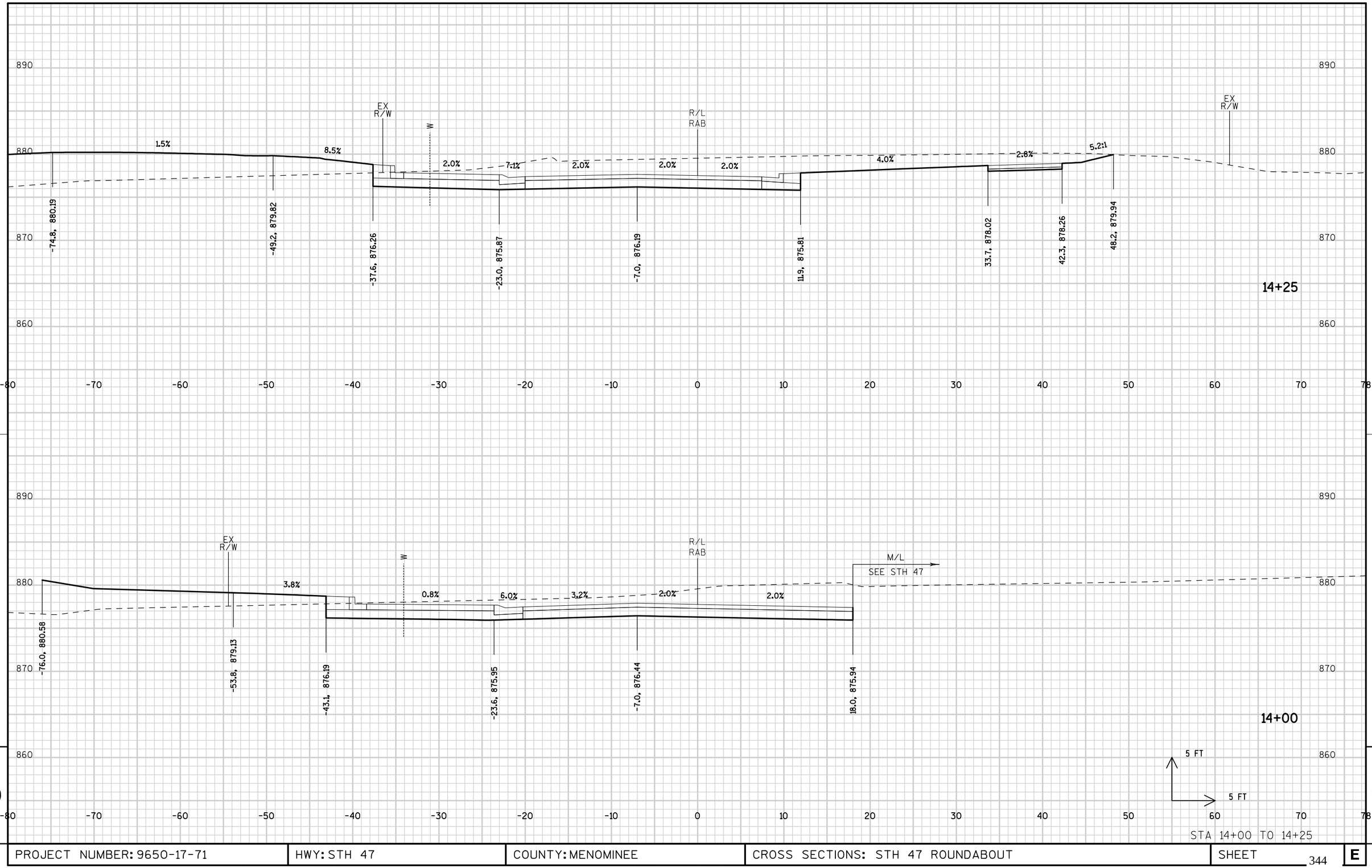
PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 ROUNDABOUT	SHEET 342	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090507_xs_RAB.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

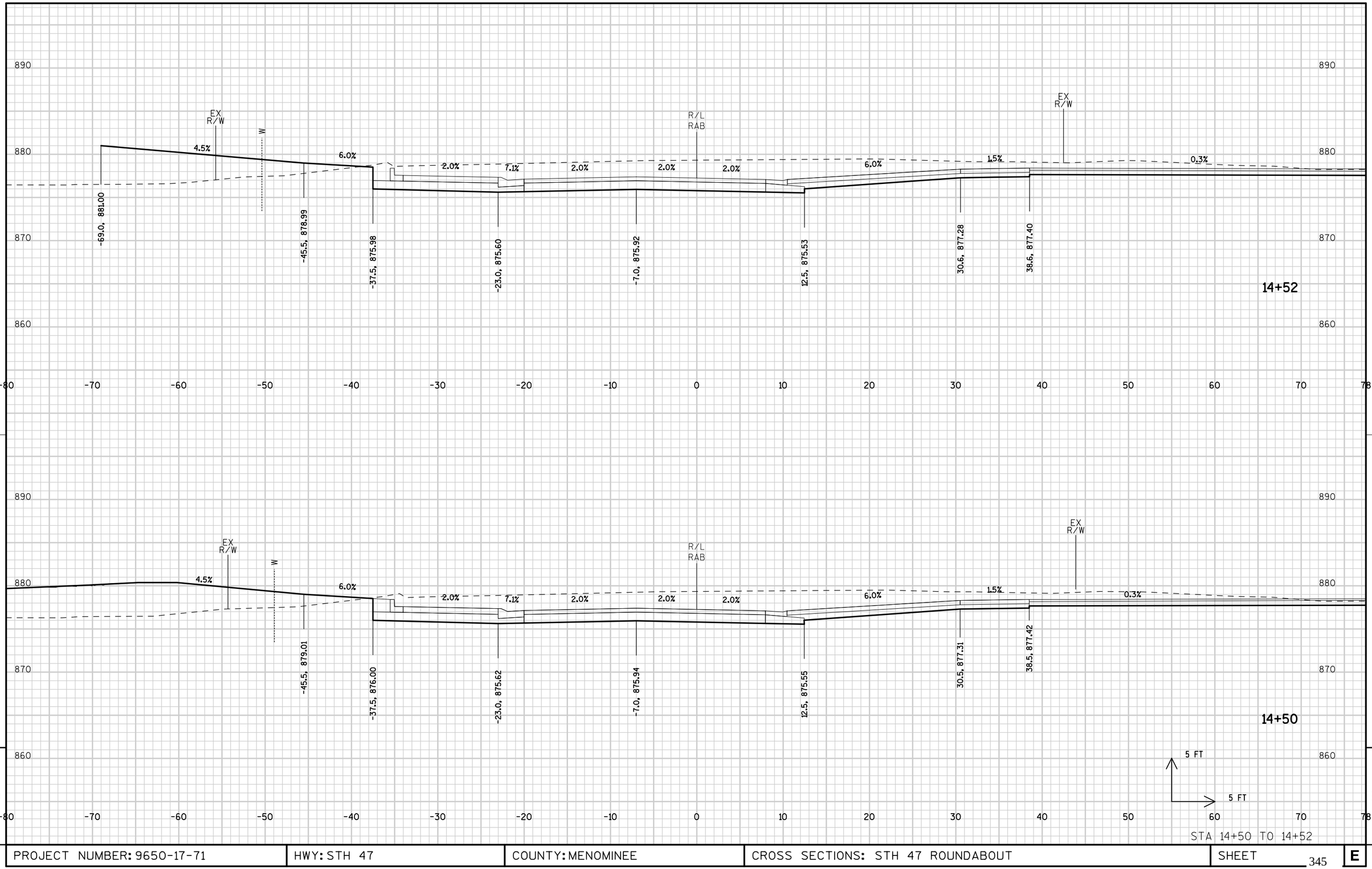
WISDOT/CADDS SHEET 21



PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 ROUNDABOUT	SHEET 343	E



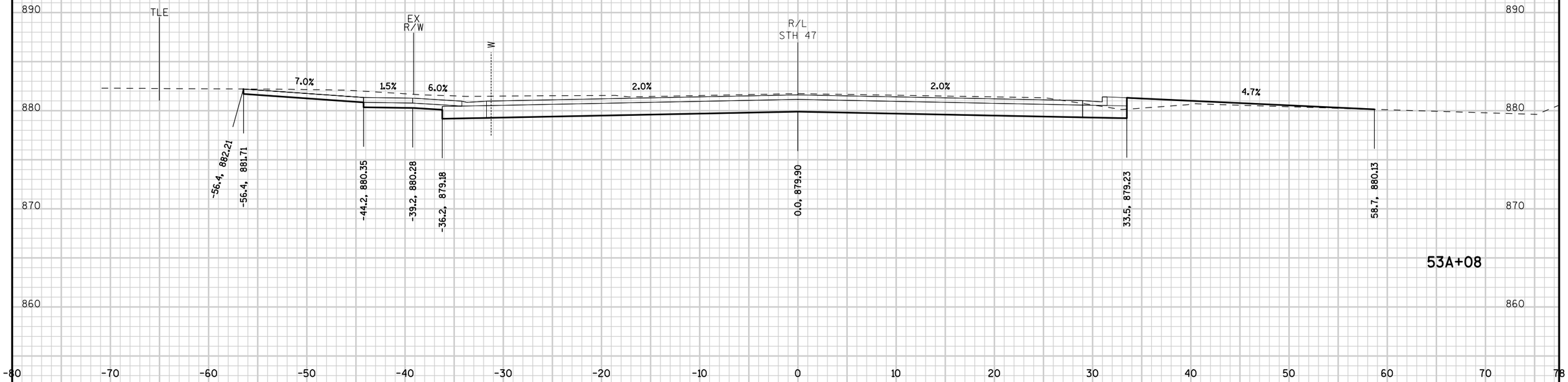
PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 ROUNDABOUT	SHEET 344	E



STA 14+50 TO 14+52

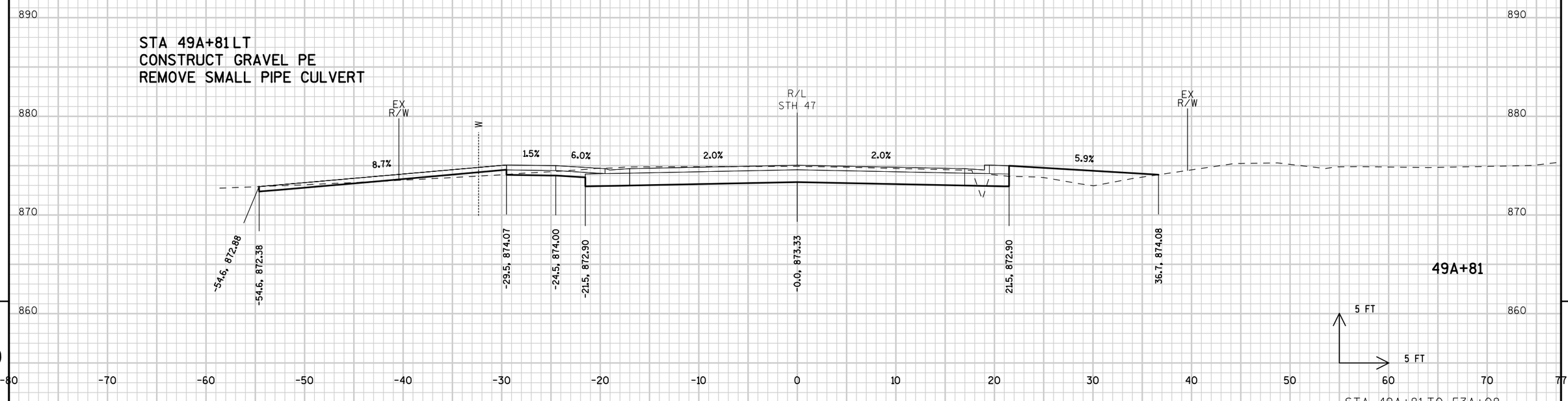
PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 ROUNDABOUT	SHEET 345	E

STA 53A+08 LT
CONSTRUCT GRAVEL PE
REMOVE SMALL PIPE CULVERT



53A+08

STA 49A+81 LT
CONSTRUCT GRAVEL PE
REMOVE SMALL PIPE CULVERT



49A+81

5 FT
5 FT

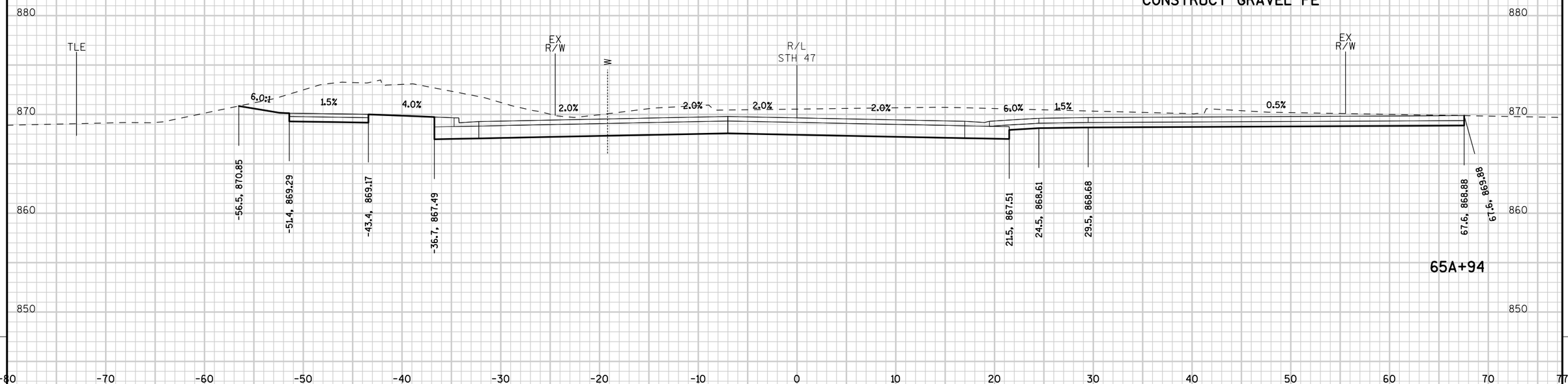
STA 49A+81 TO 53A+08

9

9

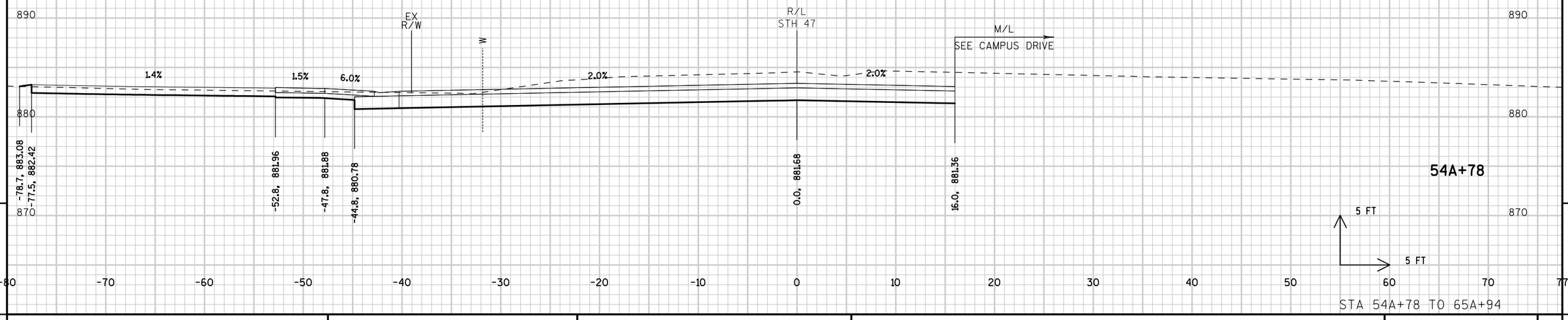
PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 FINAL DRIVEWAYS	SHEET 346	E

STA 65A+94 RT
CONSTRUCT GRAVEL PE



65A+94

STA 54A+78 LT
CONSTRUCT ASPHALT PE



54A+78

5 FT
5 FT

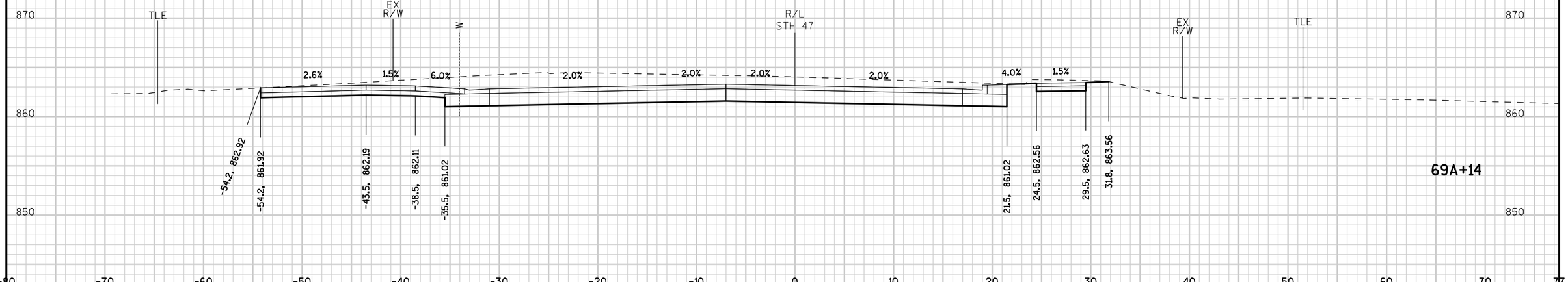
STA 54A+78 TO 65A+94

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 FINAL DRIVEWAYS	SHEET 347	E

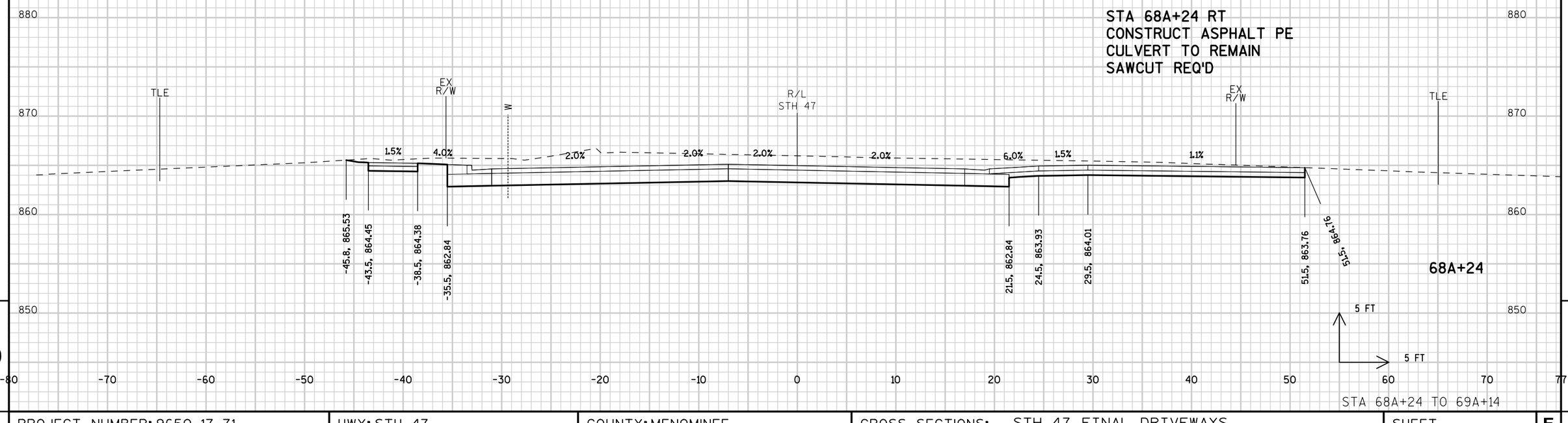
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WISDOT/CADDS SHEET 21

STA 69A+14 LT
CONSTRUCT GRAVEL PE
REMOVE SMALL PIPE CULVERT



STA 68A+24 RT
CONSTRUCT ASPHALT PE
CULVERT TO REMAIN
SAWCUT REQ'D



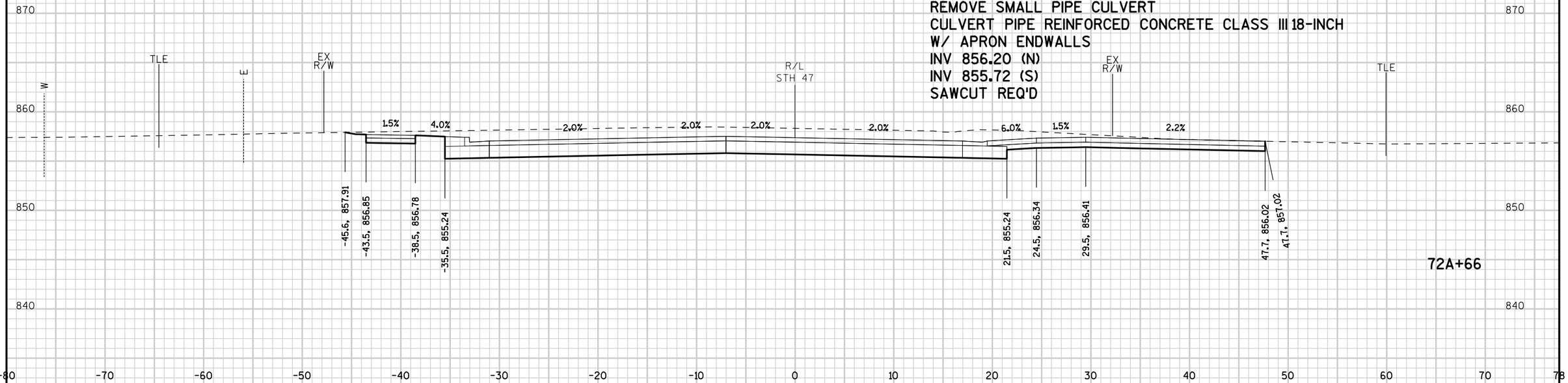
STA 68A+24 TO 69A+14

9

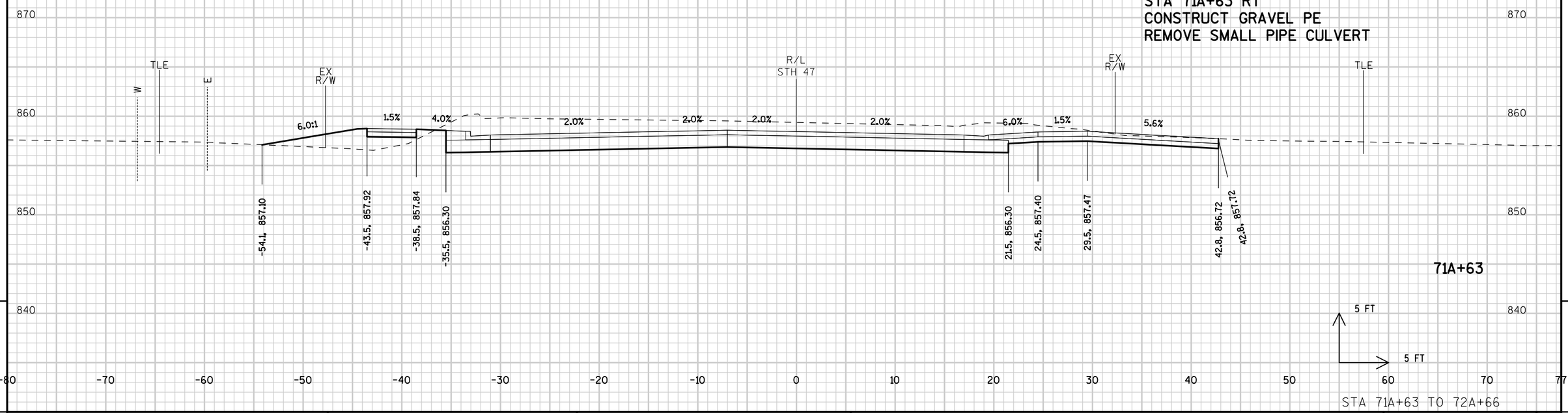
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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 FINAL DRIVEWAYS	SHEET 348	E

STA 72A+66 RT
CONSTRUCT ASPHALT PE
REMOVE SMALL PIPE CULVERT
CULVERT PIPE REINFORCED CONCRETE CLASS III 18-INCH
W/ APRON ENDWALLS
INV 856.20 (N)
INV 855.72 (S)
SAWCUT REQ'D



STA 71A+63 RT
CONSTRUCT GRAVEL PE
REMOVE SMALL PIPE CULVERT



STA 71A+63 TO 72A+66

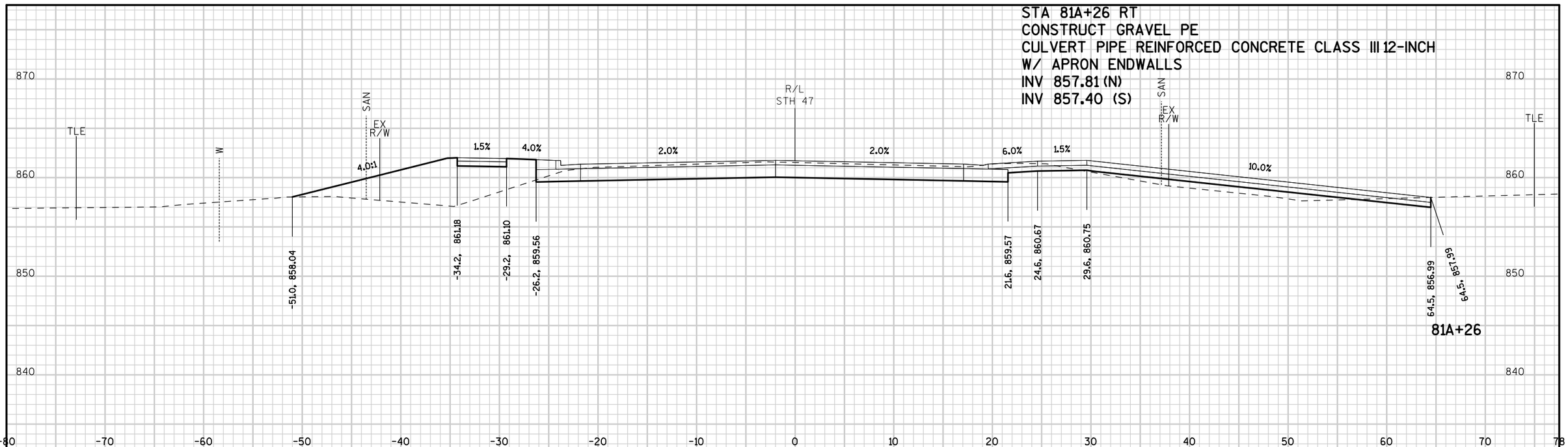
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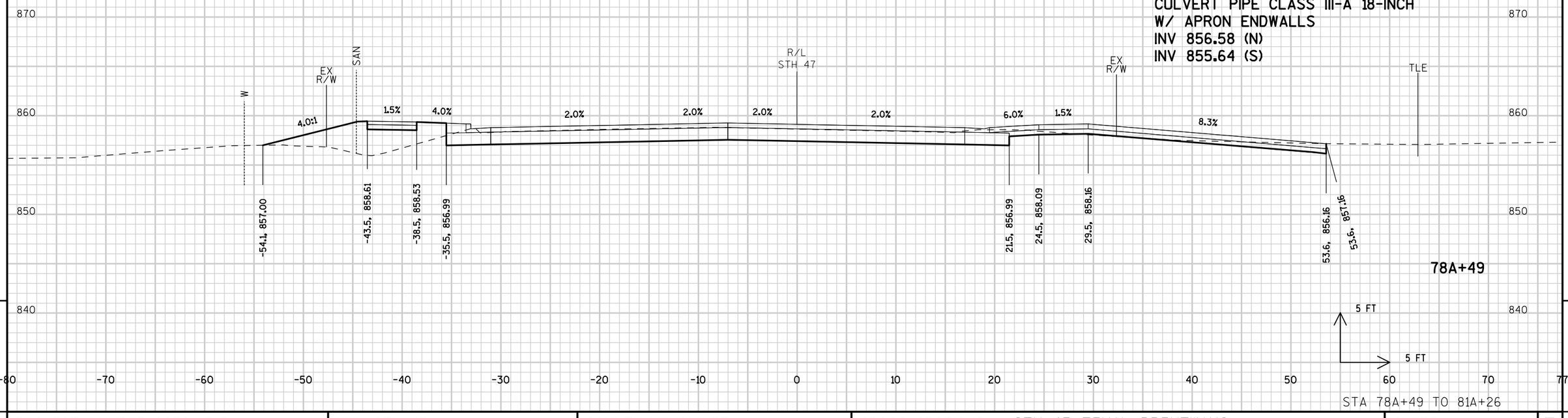
PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 FINAL DRIVEWAYS	SHEET 349	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090454_xs_DW.dgn
PLOT DATE : 10/17/2017
PLOT BY : kochl
PLOT NAME :
PLOT SCALE : 10.0000 sf / in.
WISDOT/CADDS SHEET 21

STA 81A+26 RT
CONSTRUCT GRAVEL PE
CULVERT PIPE REINFORCED CONCRETE CLASS III 12-INCH
W/ APRON ENDWALLS
INV 857.81 (N)
INV 857.40 (S)



STA 78A+49 RT
CONSTRUCT GRAVEL PE
REMOVE SMALL PIPE CULVERT
CULVERT PIPE CLASS III-A 18-INCH
W/ APRON ENDWALLS
INV 856.58 (N)
INV 855.64 (S)

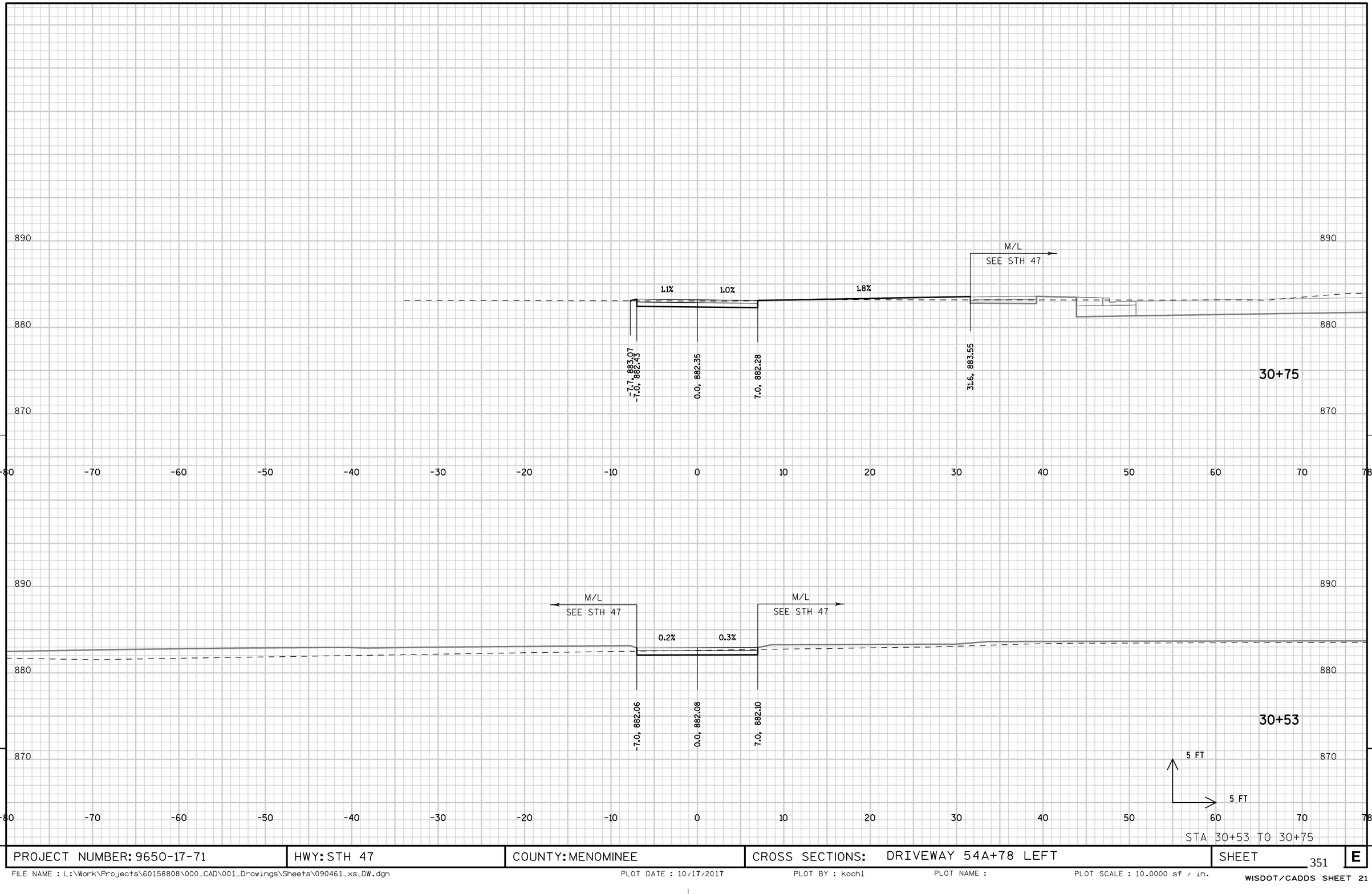


STA 78A+49 TO 81A+26

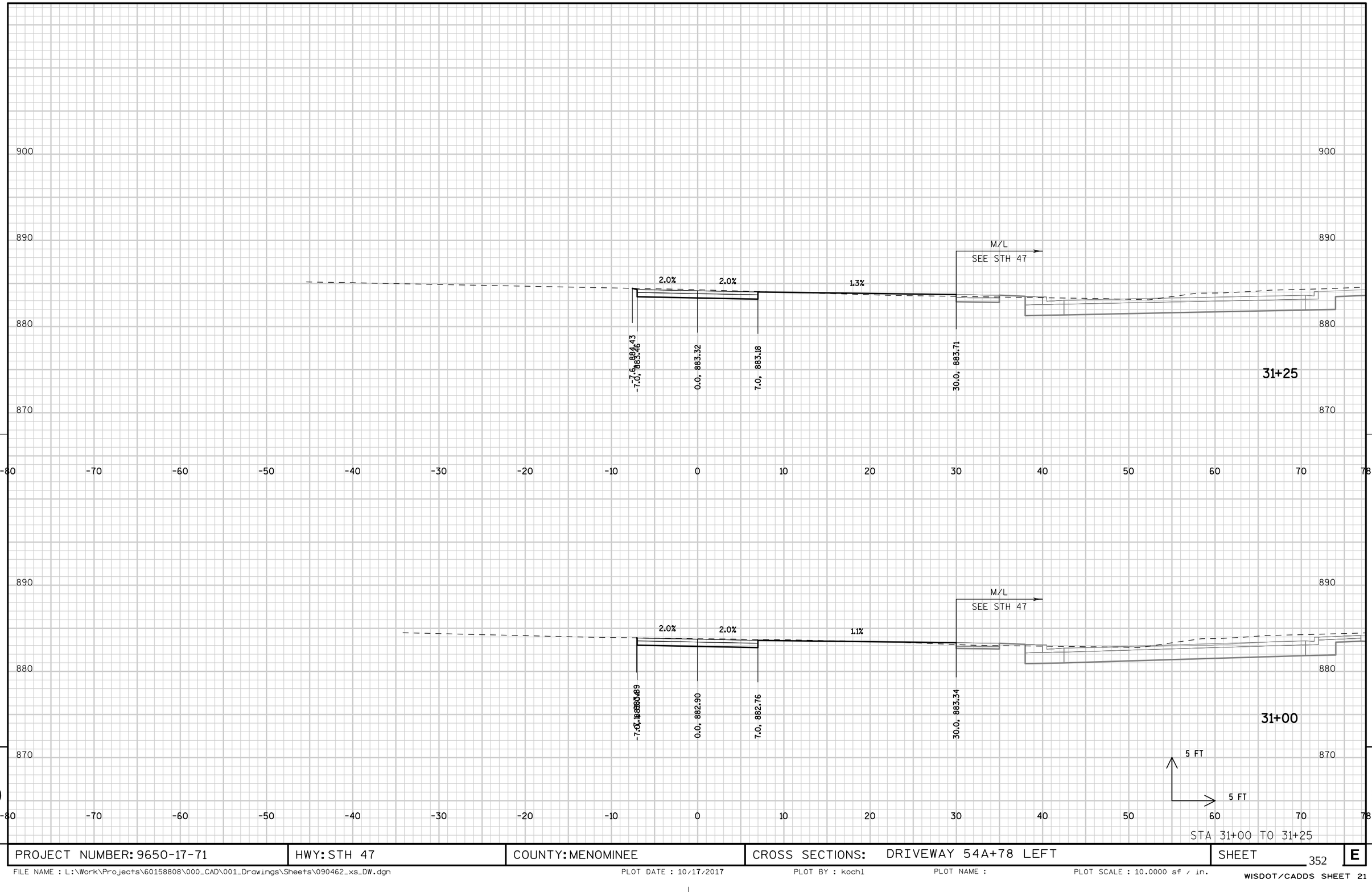
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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 FINAL DRIVEWAYS	SHEET 350	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090455_xs_DW.dgn
PLOT DATE : 10/17/2017
PLOT BY : kochl
PLOT NAME :
PLOT SCALE : 10.0000 sf / in.
WISDOT/CADDS SHEET 21

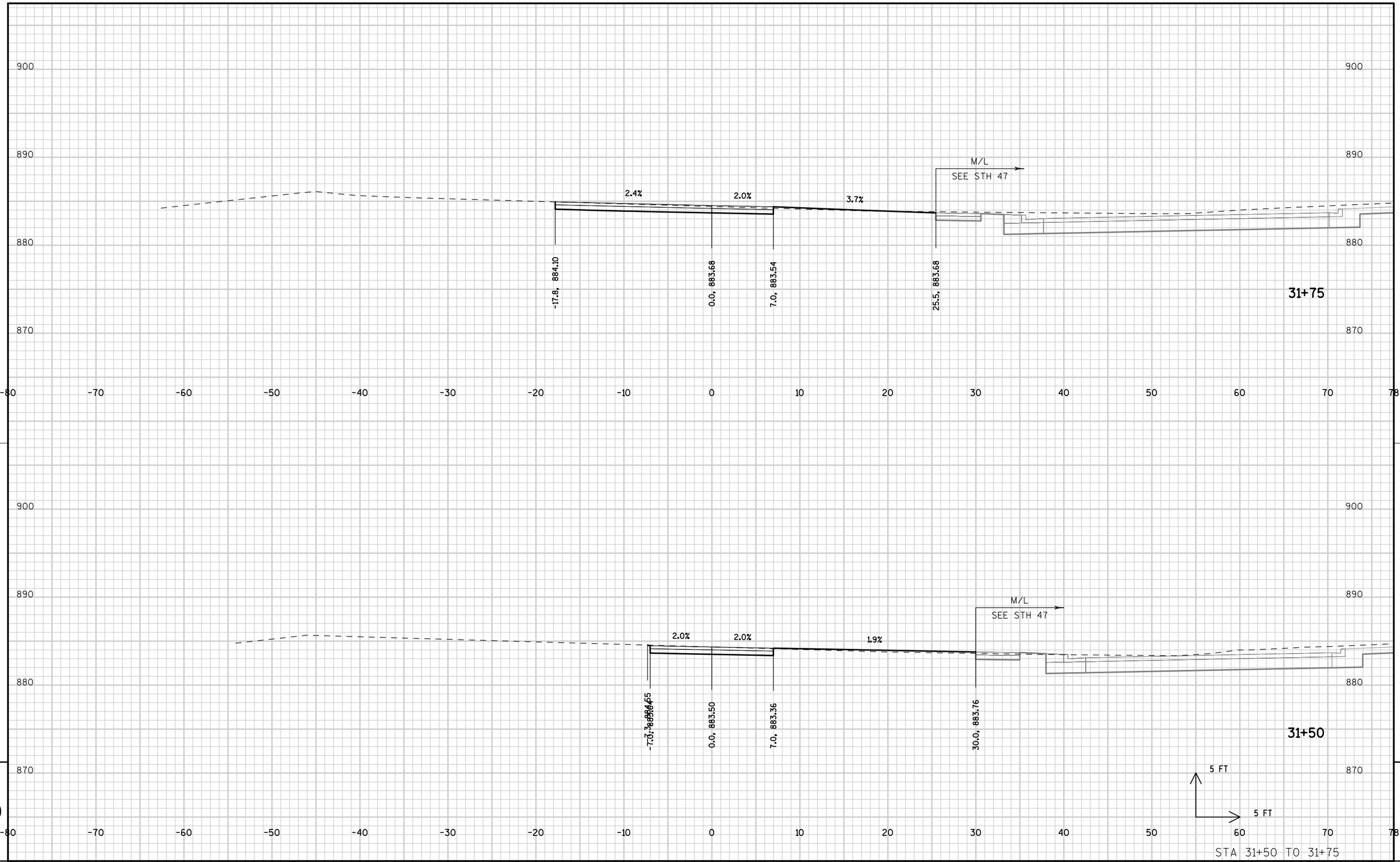


PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: DRIVEWAY 54A+78 LEFT	SHEET 351	E



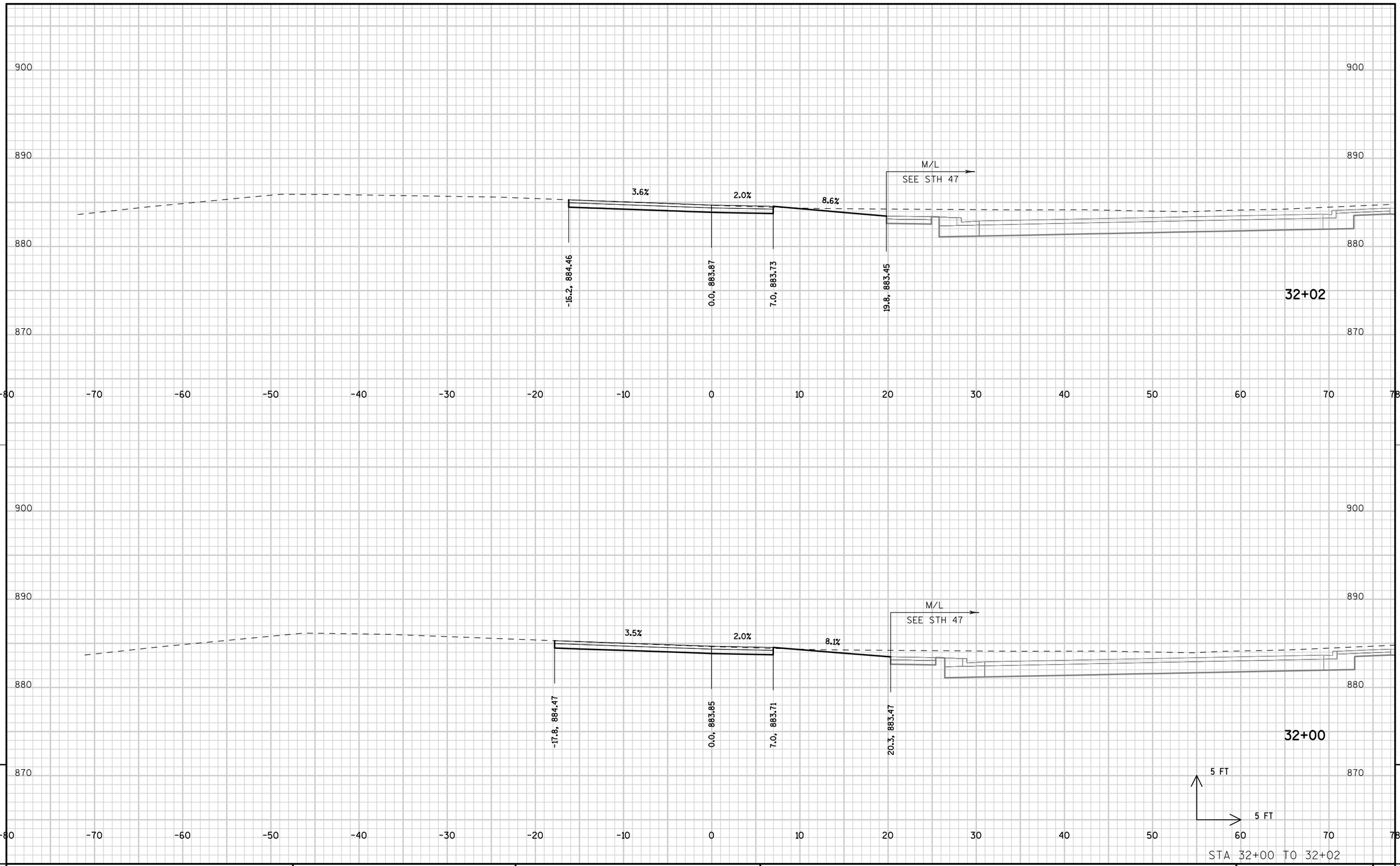
STA 31+00 TO 31+25

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: DRIVEWAY 54A+78 LEFT	SHEET 352	E



STA 31+50 TO 31+75

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: DRIVEWAY 54A+78 LEFT	SHEET 353	E



STA 32+00 TO 32+02

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: DRIVEWAY 54A+78 LEFT	SHEET 354	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090464_xs_DW.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21

890

890

880

880

870

870

860

860

850

850

0+82

5 FT

5 FT

-80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 78

STA 0+82 TO 0+82

9

9

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1A	SHEET 355	E

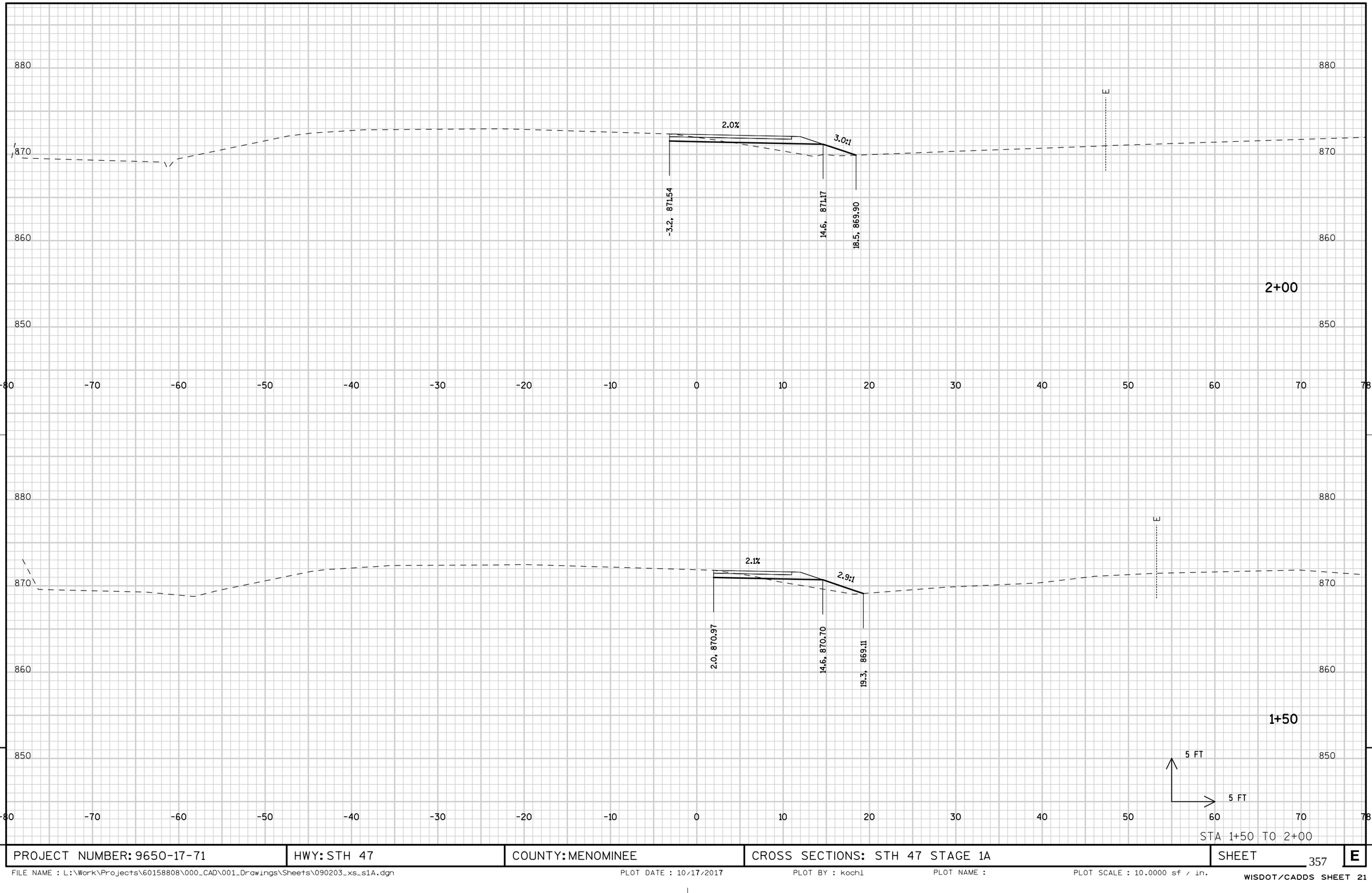


STA 1+00 TO 1+00

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1A	SHEET 356	E

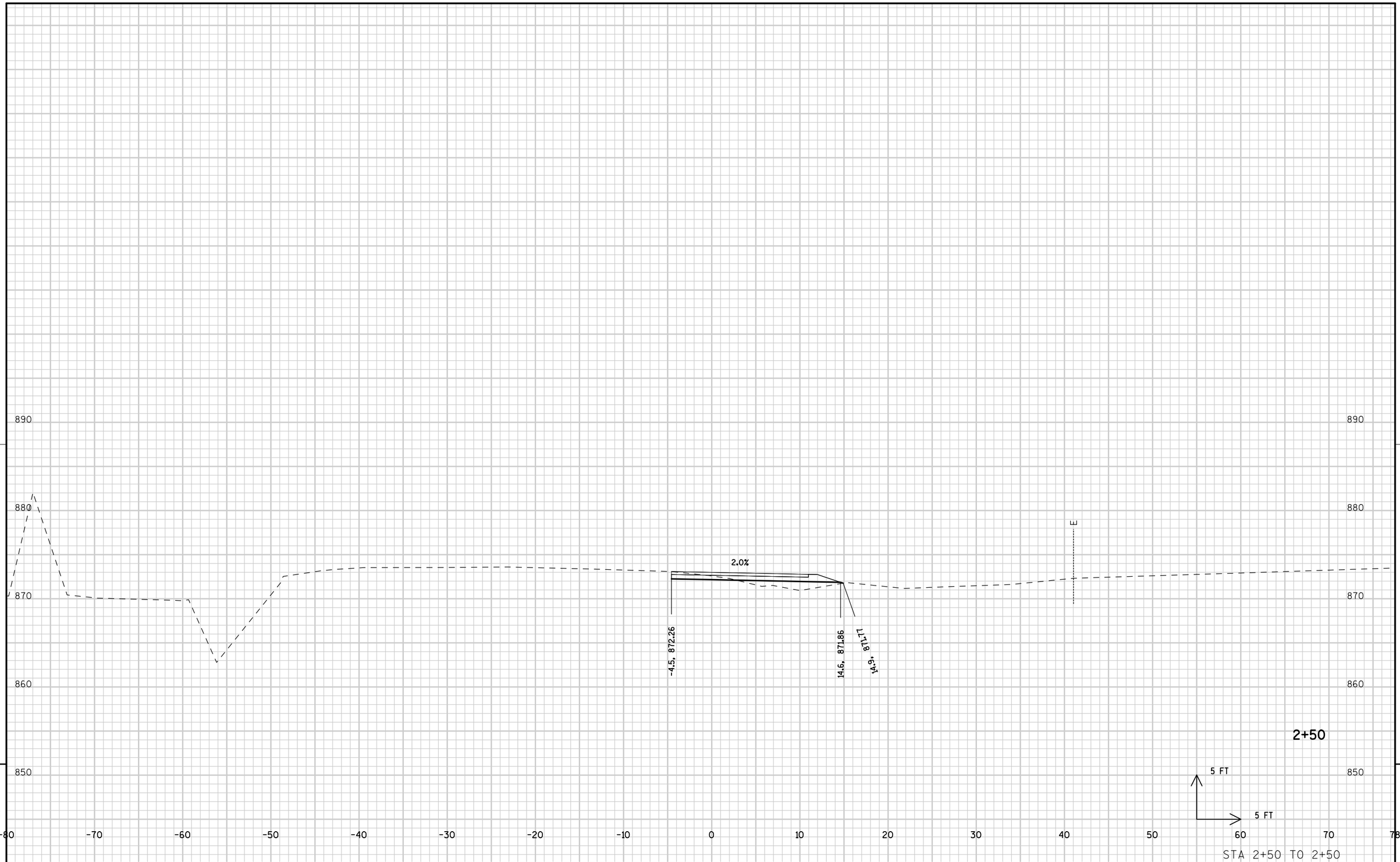
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WISDOT/CADDS SHEET 21



STA 1+50 TO 2+00

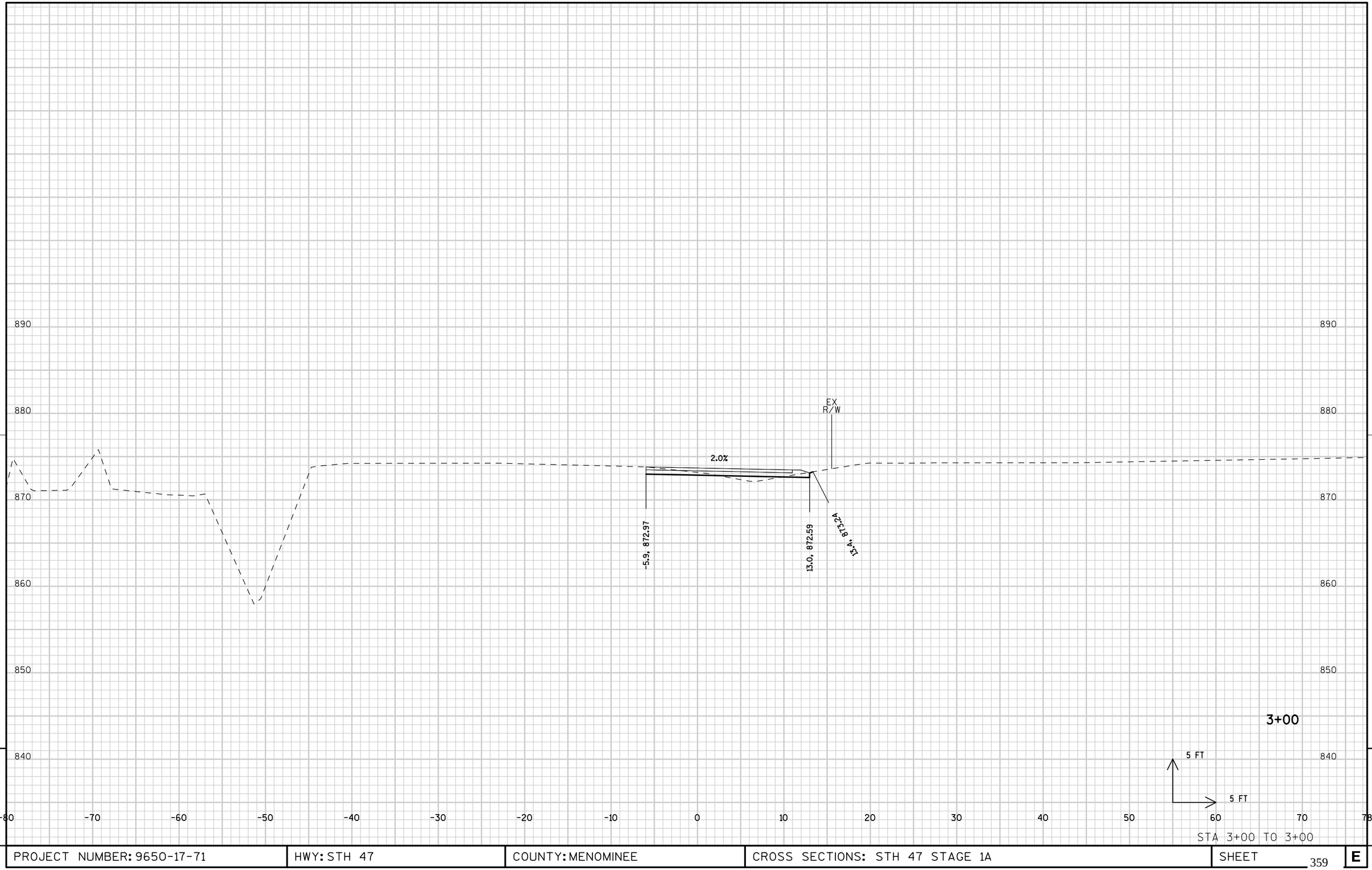
PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1A	SHEET 357	E



9

9

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1A	SHEET 358	E

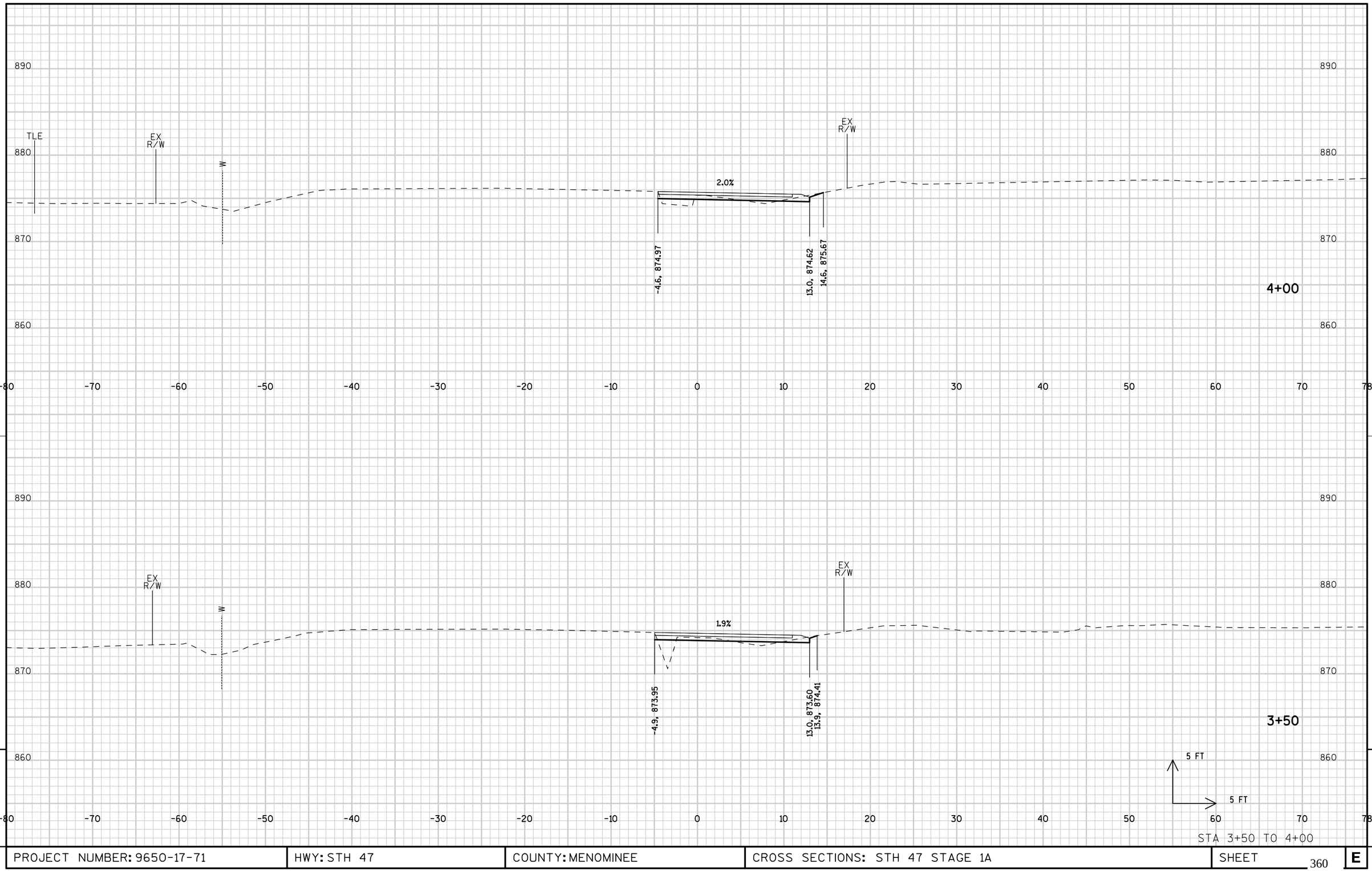


STA 3+00 TO 3+00

9

9

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1A	SHEET 359	E

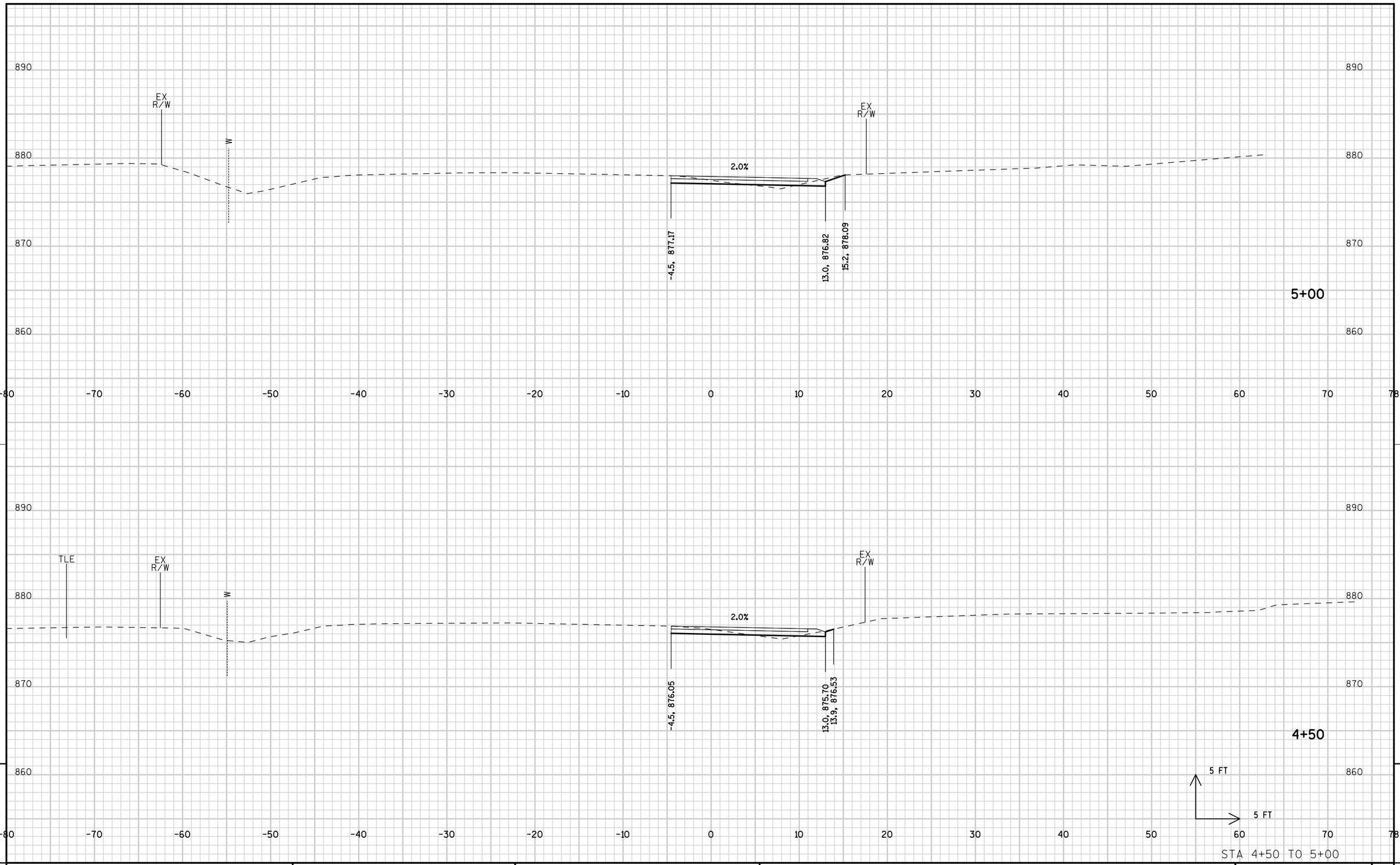


STA 3+50 TO 4+00

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1A	SHEET 360	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090206_xs_s1A.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21

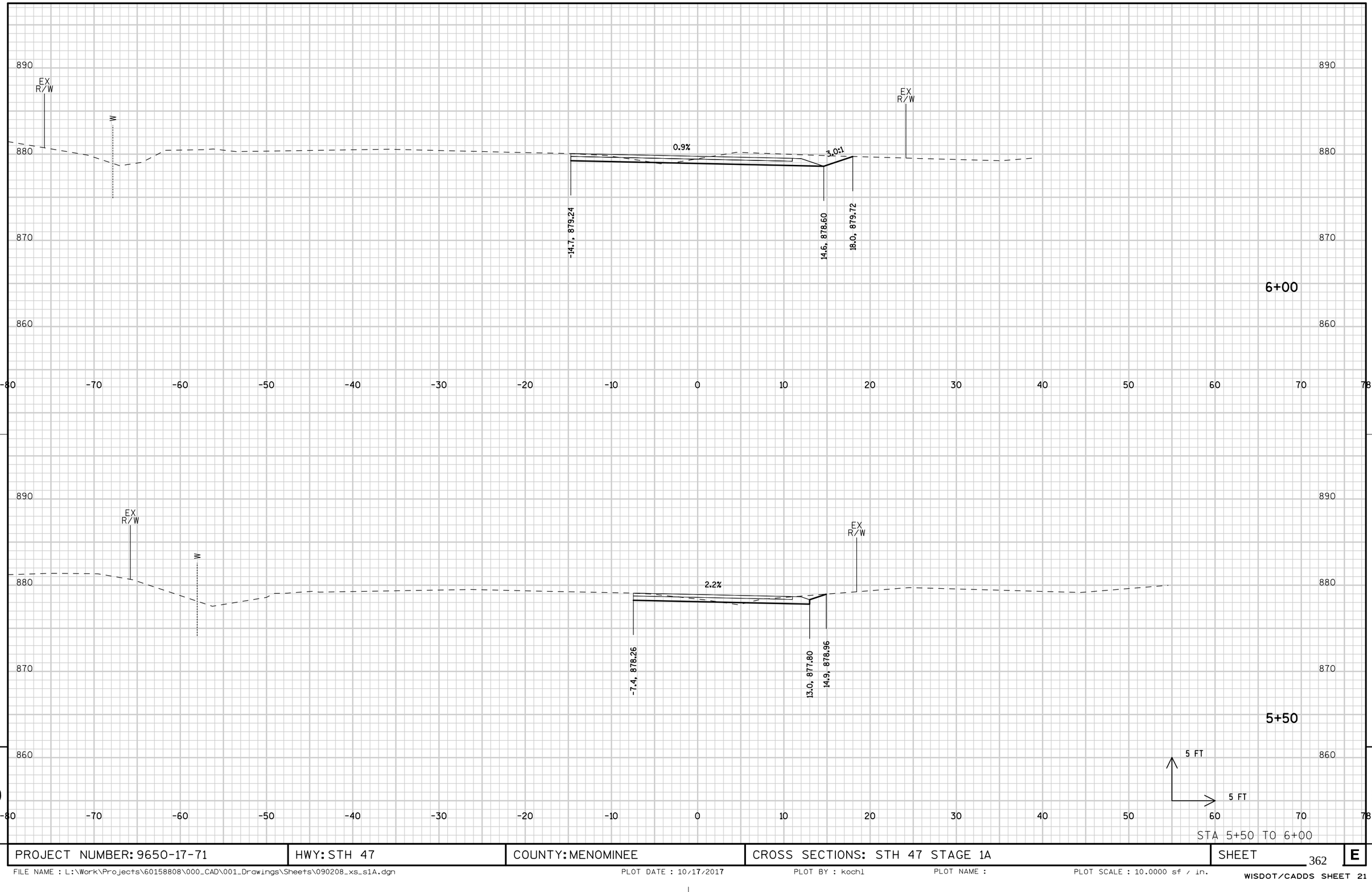


STA 4+50 TO 5+00

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1A	SHEET 361	E

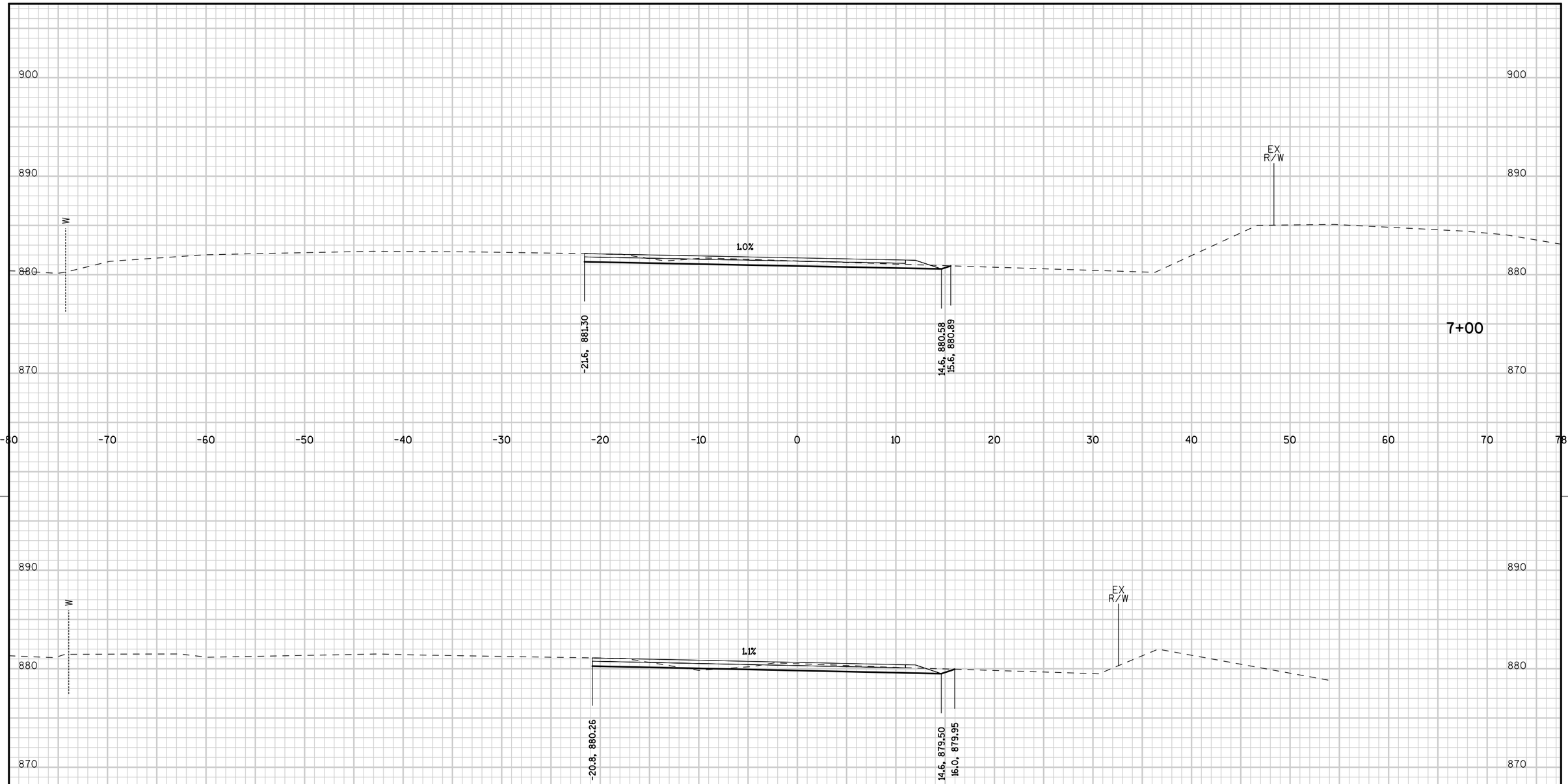
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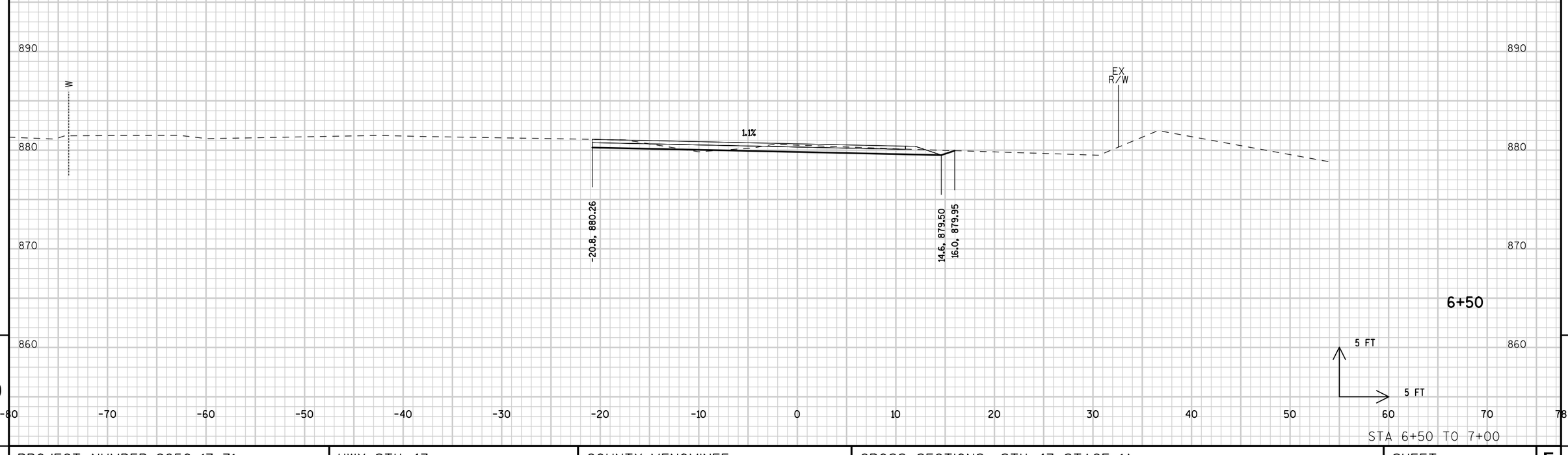
WISDOT/CADDS SHEET 21



STA 5+50 TO 6+00

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1A	SHEET 362	E



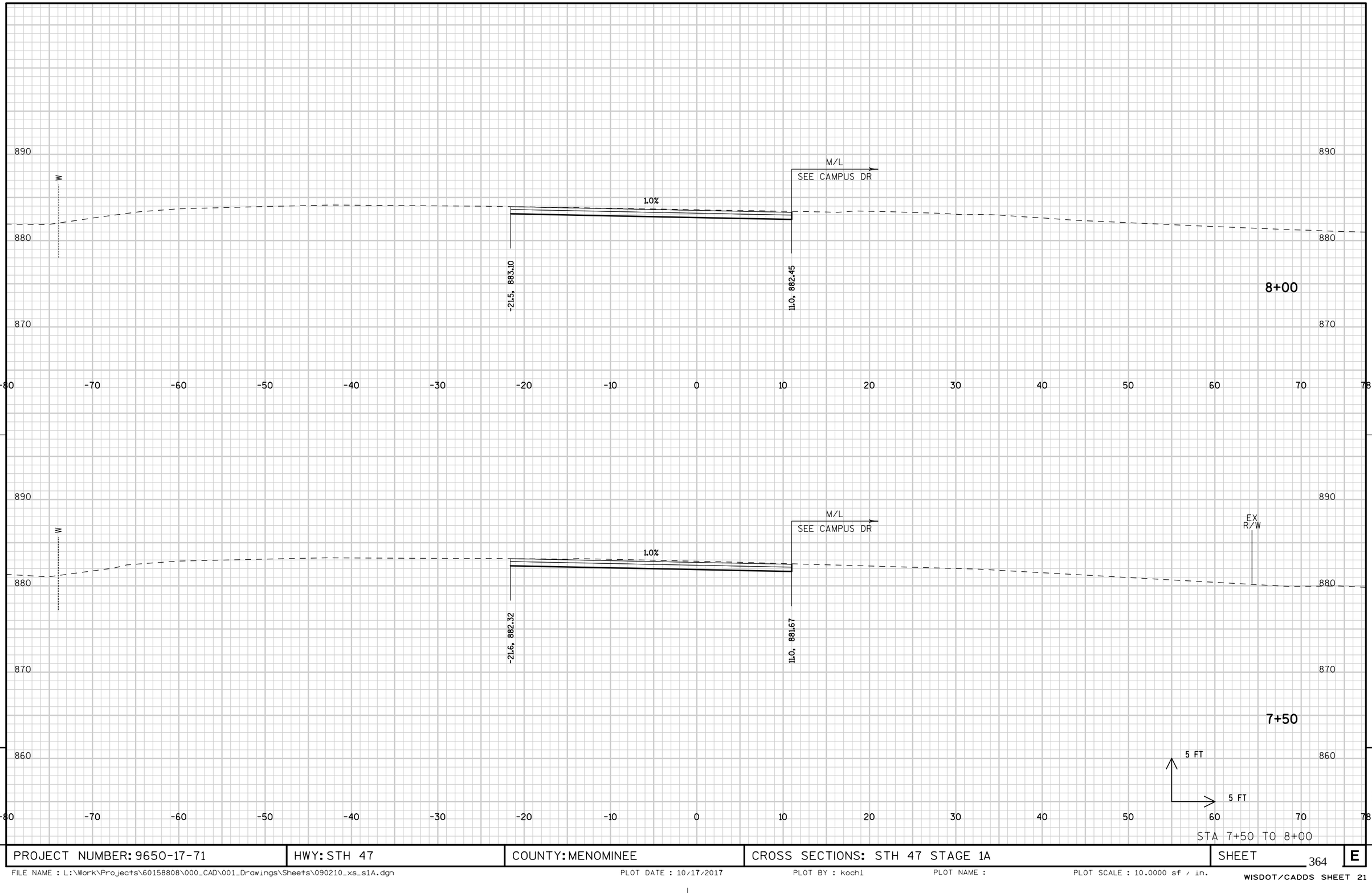


STA 6+50 TO 7+00

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1A	SHEET 363	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090209_xs_s1A.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

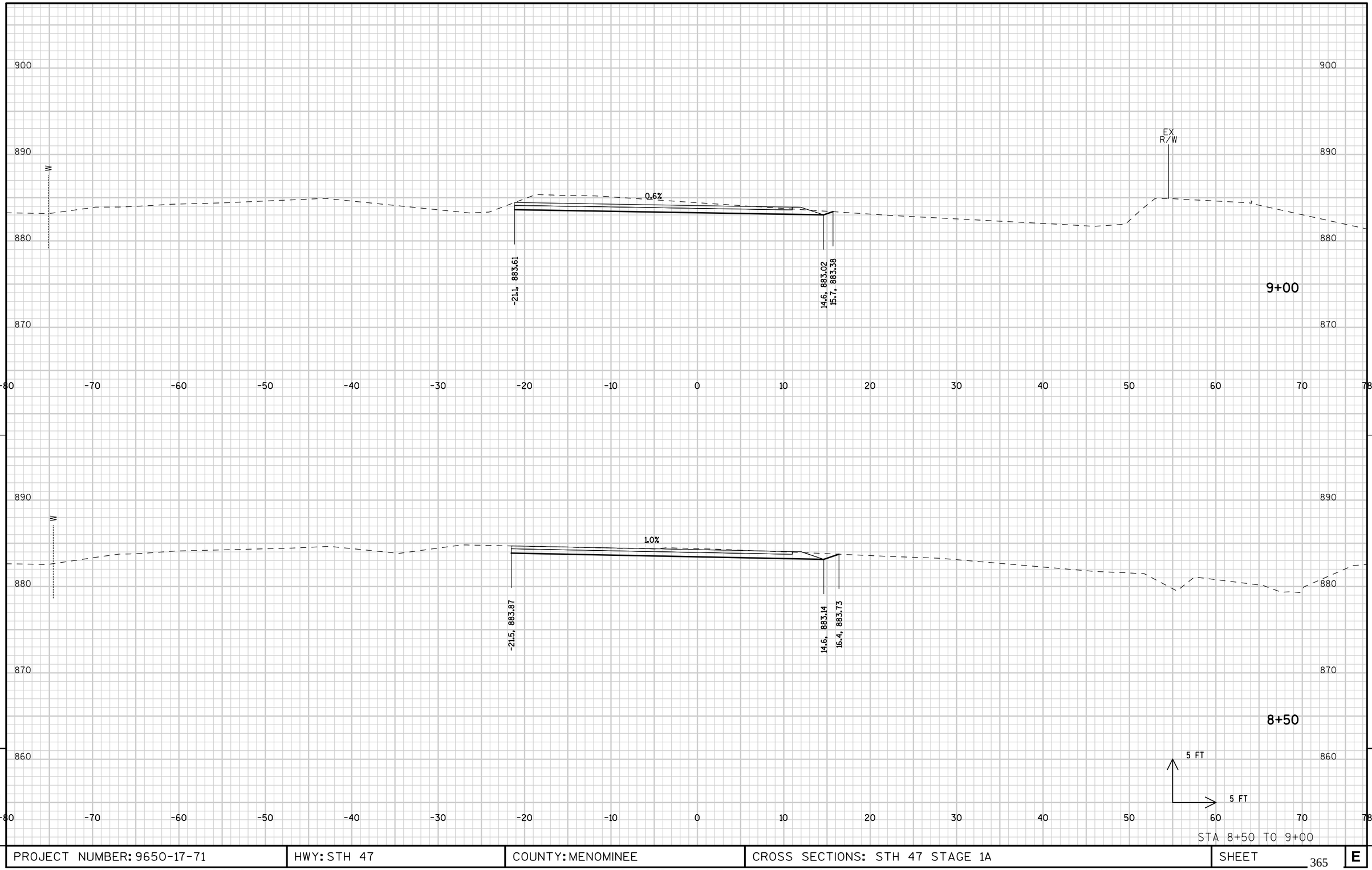
WISDOT/CADDS SHEET 21



PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1A	SHEET 364	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090210_xs_s1A.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21

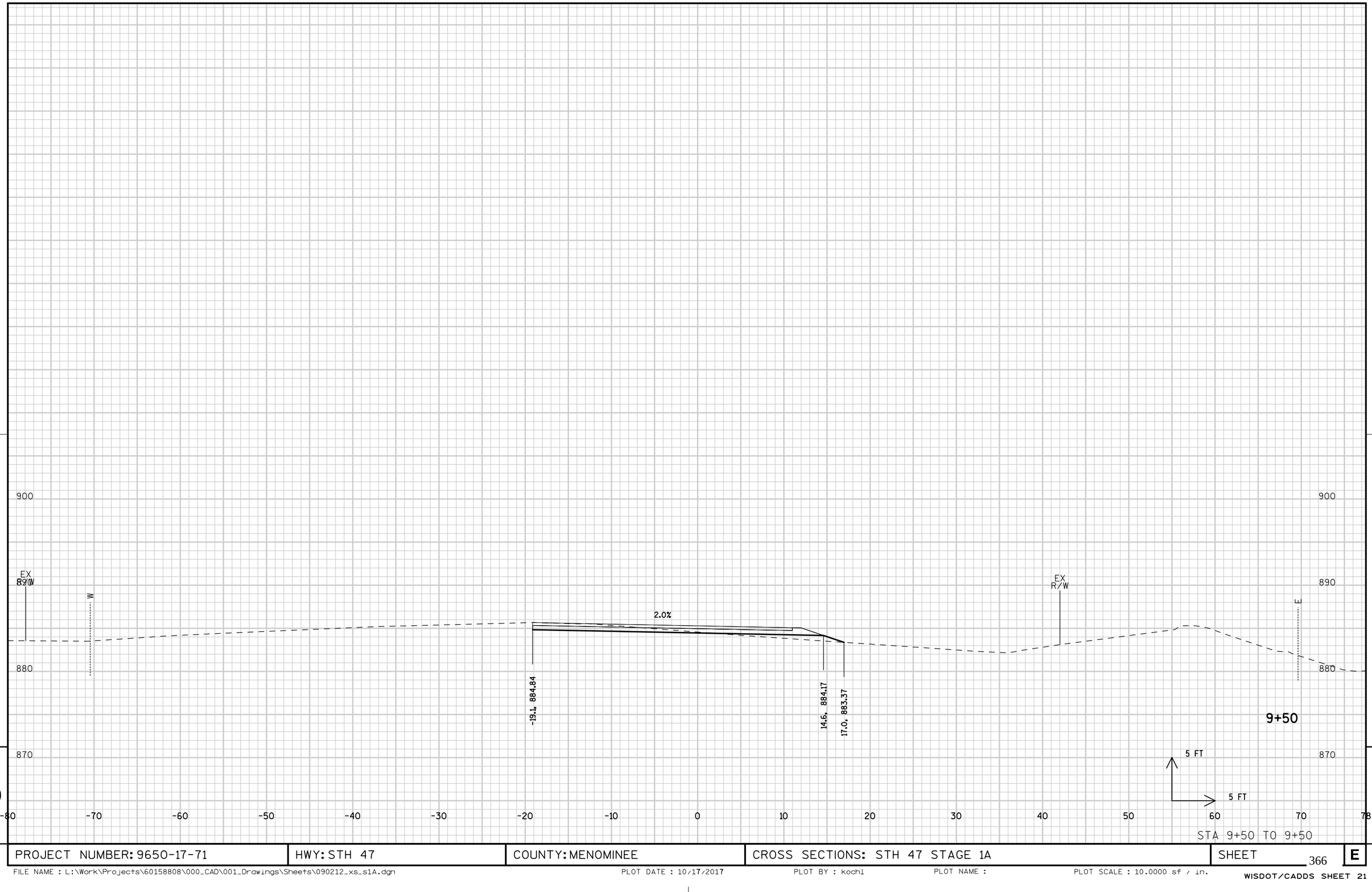


9

9

STA 8+50 TO 9+00

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1A	SHEET 365	E

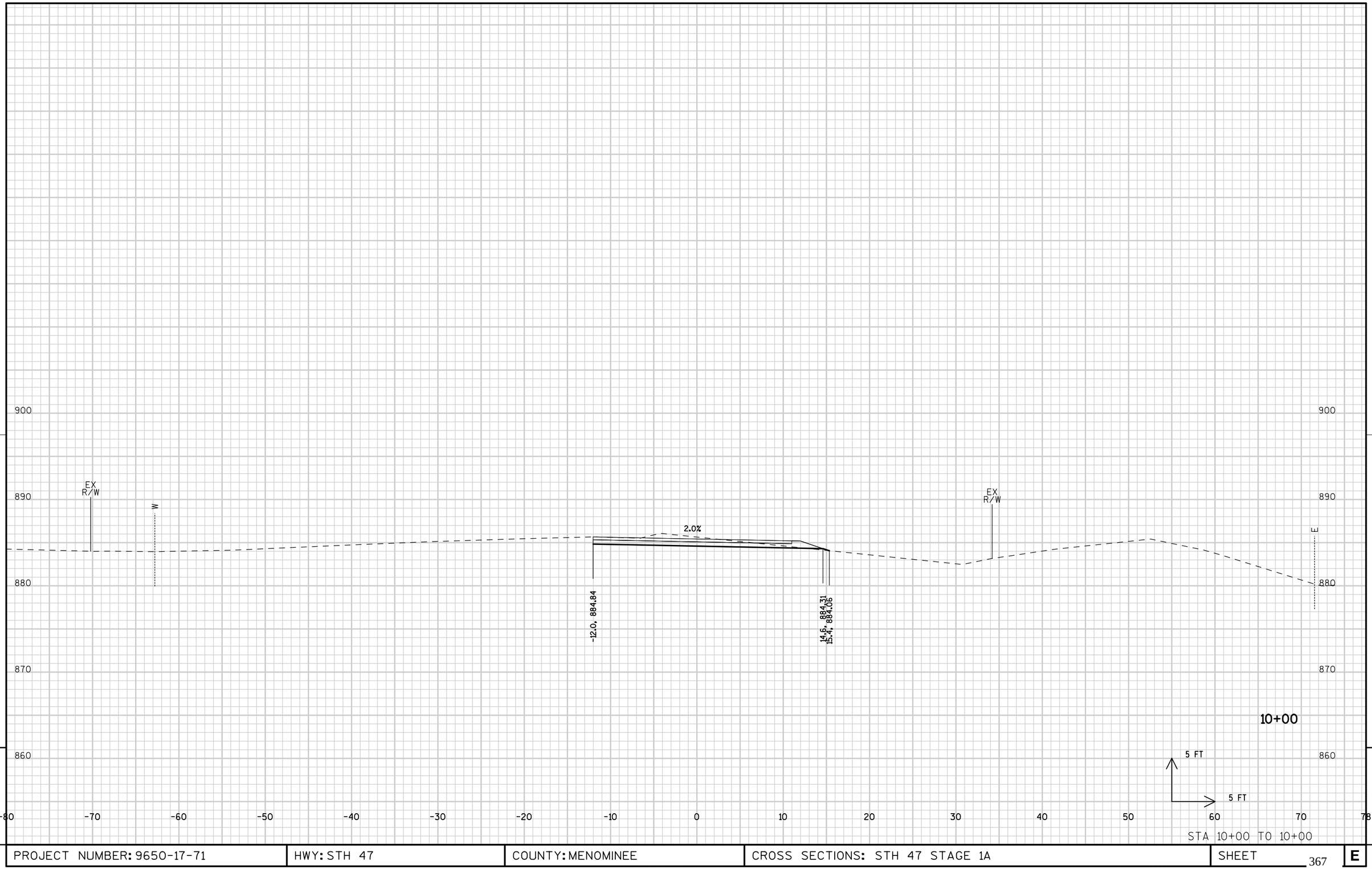


STA 9+50 TO 9+50

9

9

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1A	SHEET 366	E

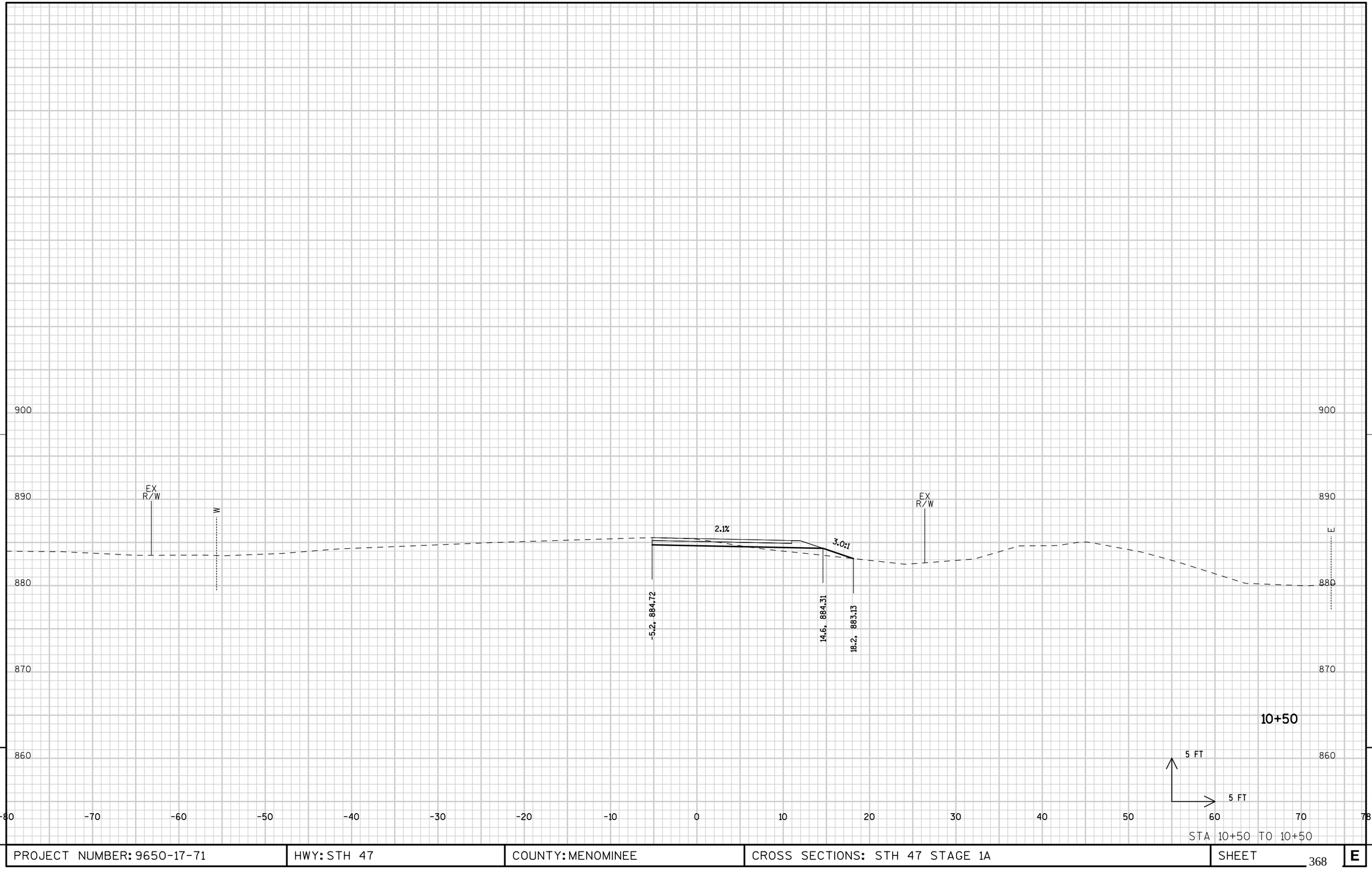


STA 10+00 TO 10+00

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1A	SHEET 367	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090213_xs_s1A.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21

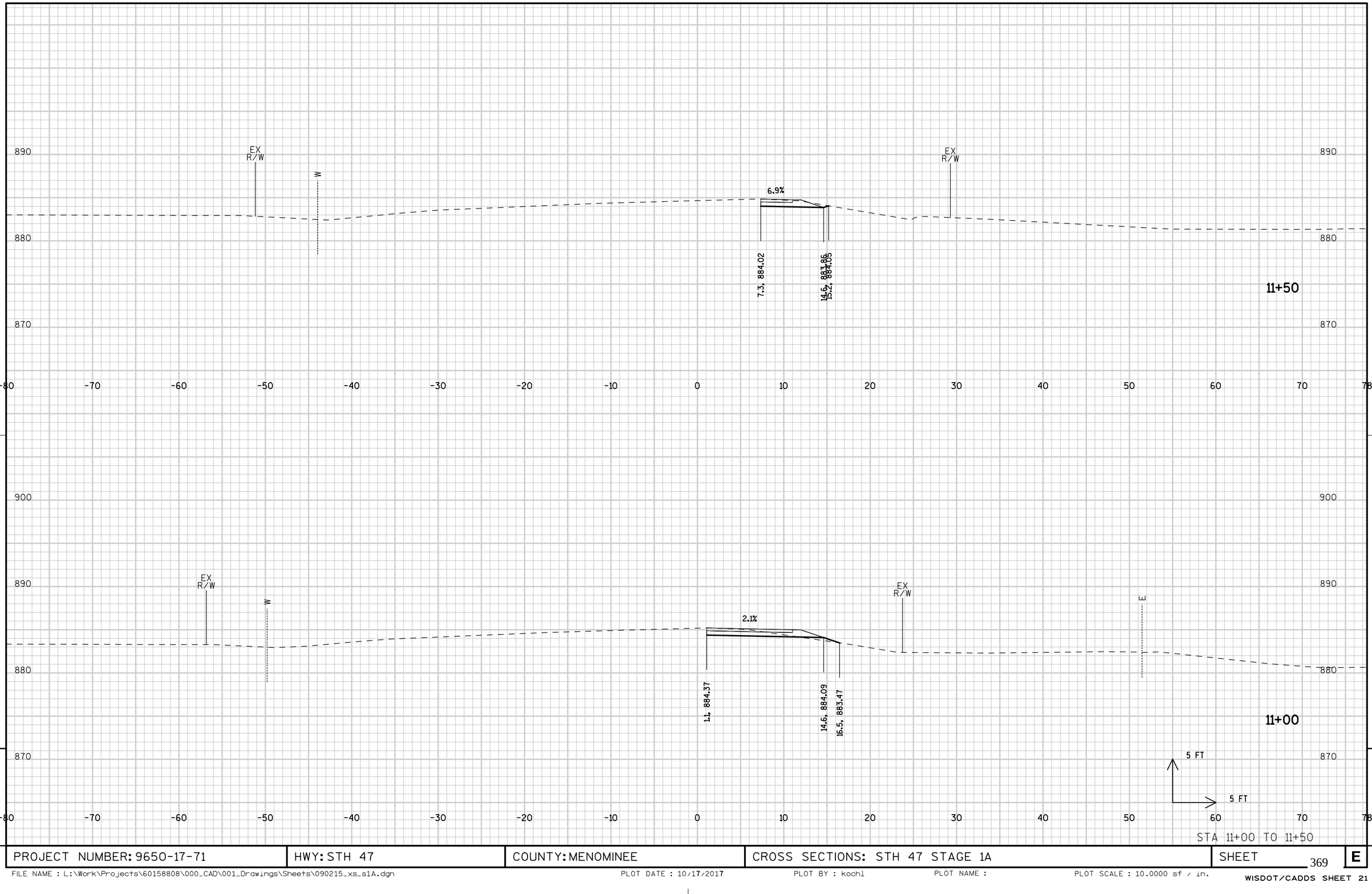


STA 10+50 TO 10+50

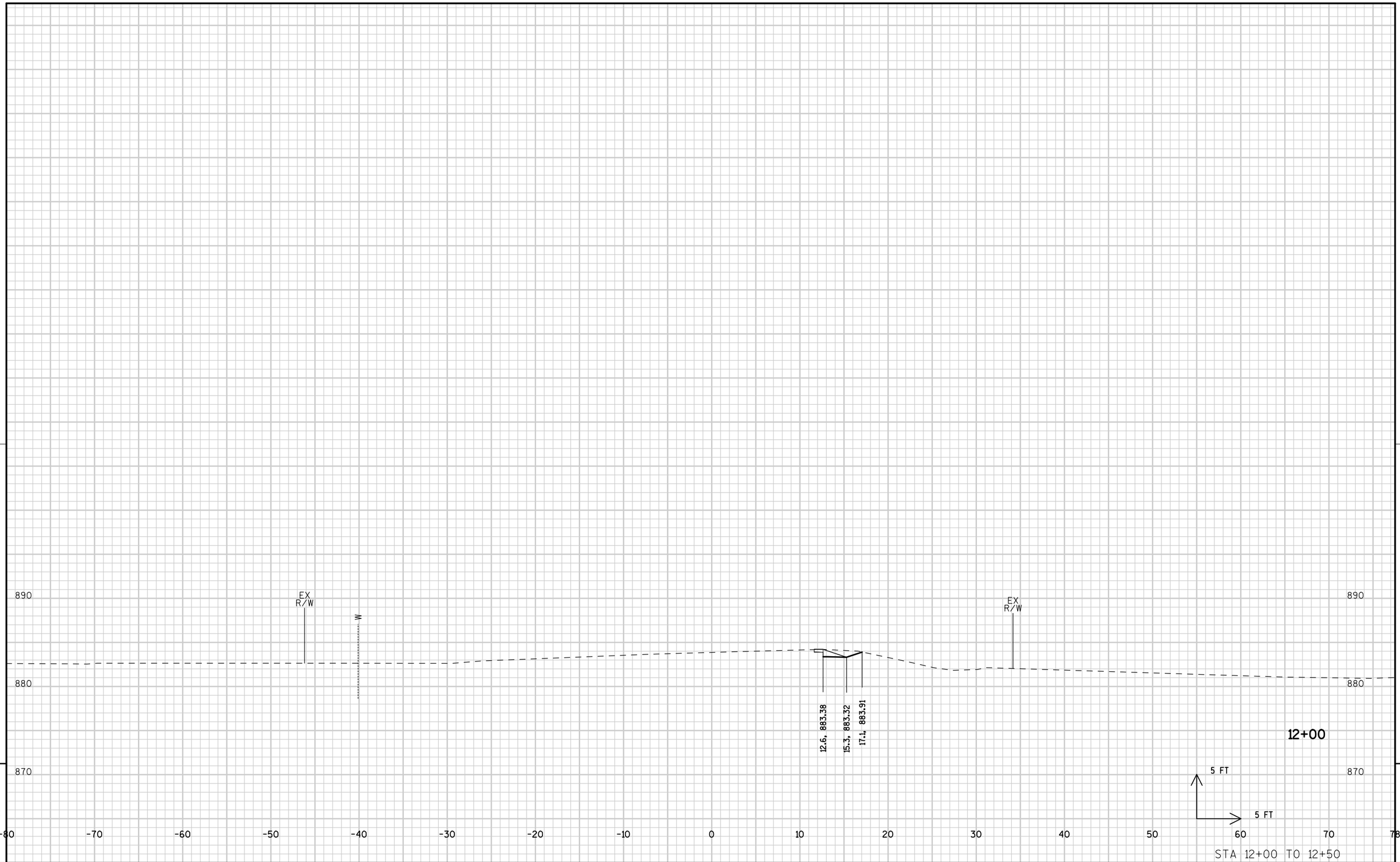
PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1A	SHEET 368	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090214_xs_s1A.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21



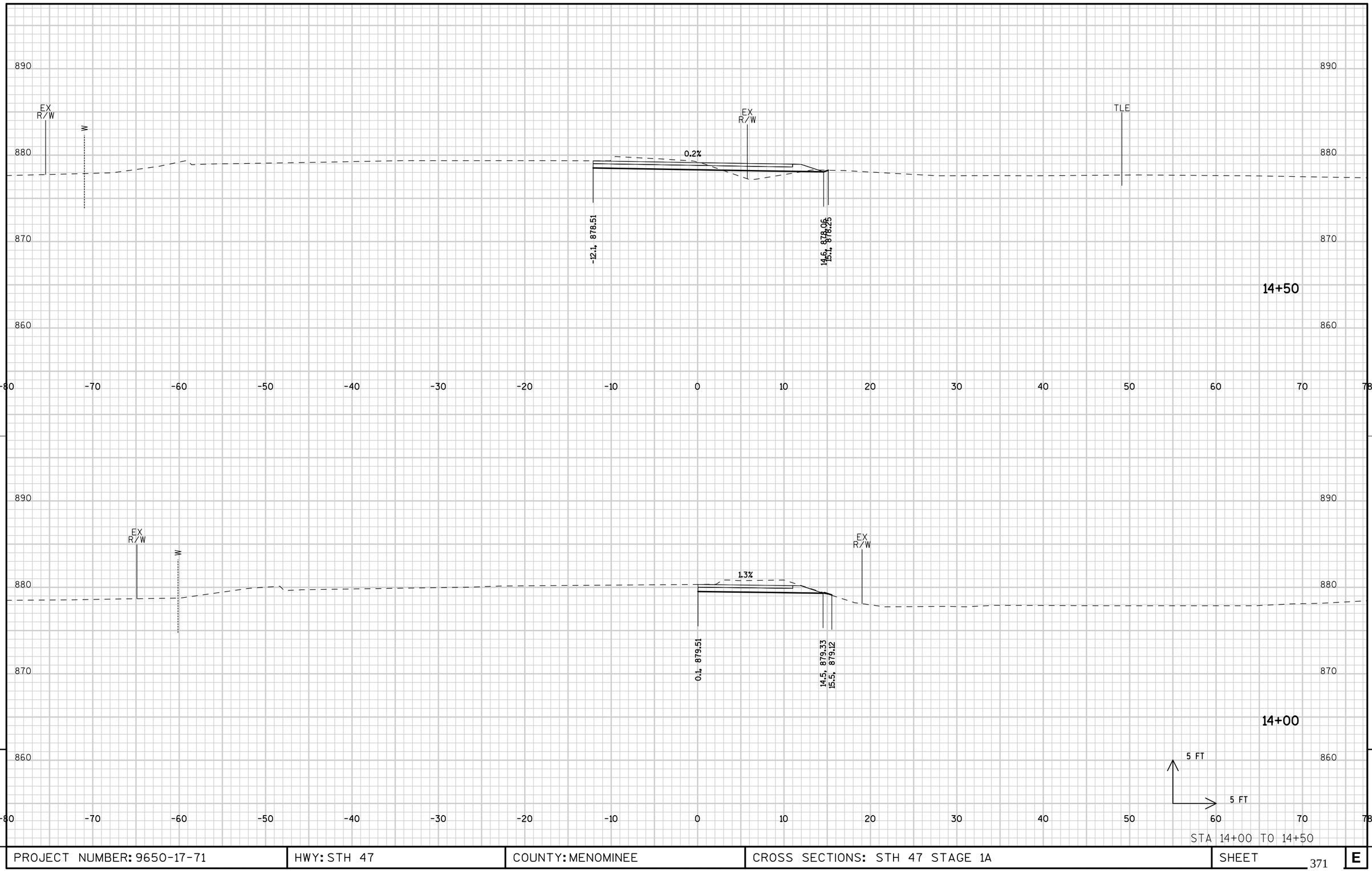
PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1A	SHEET 369	E



9

9

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1A	SHEET 370	E



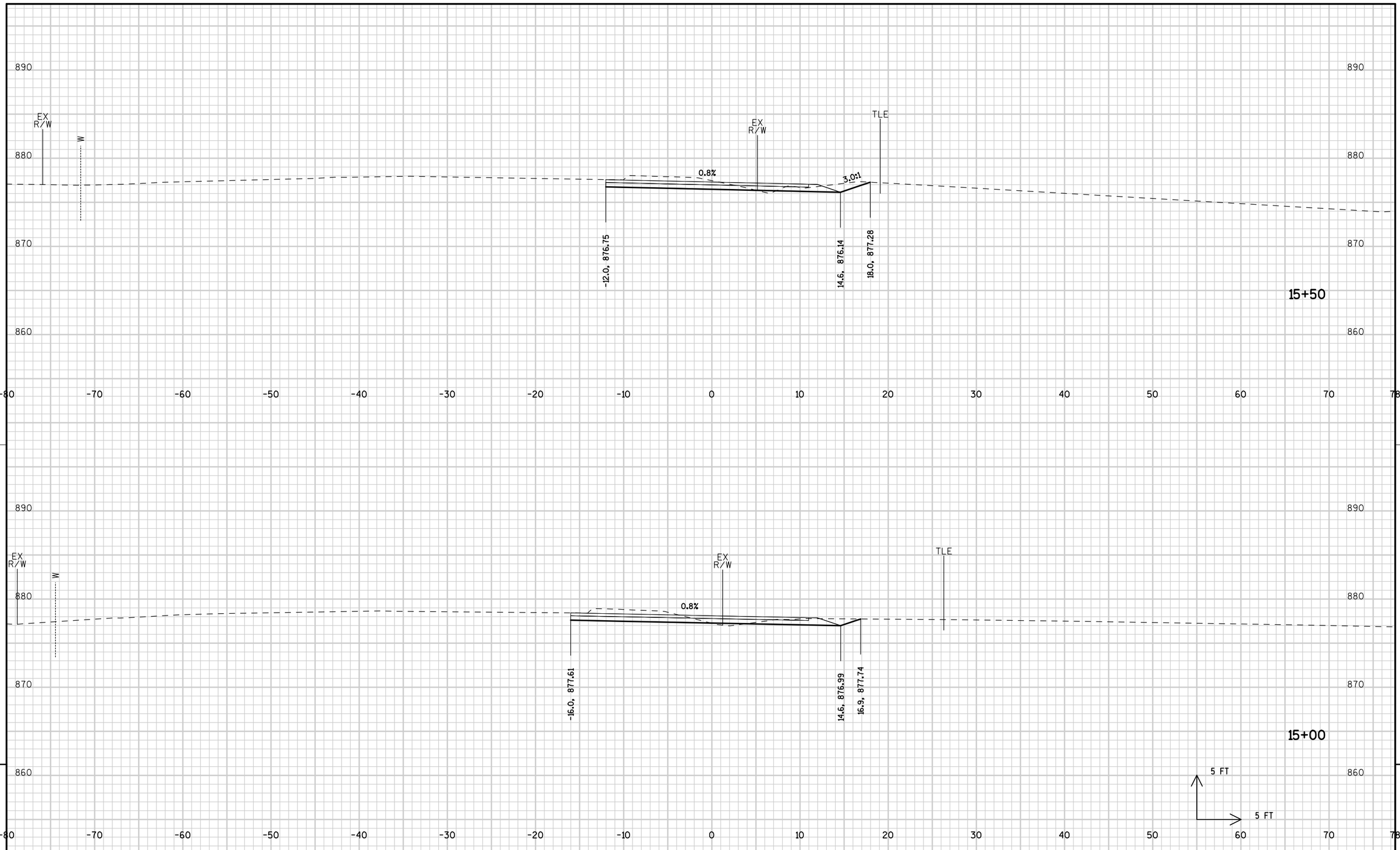
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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1A	SHEET 371	E

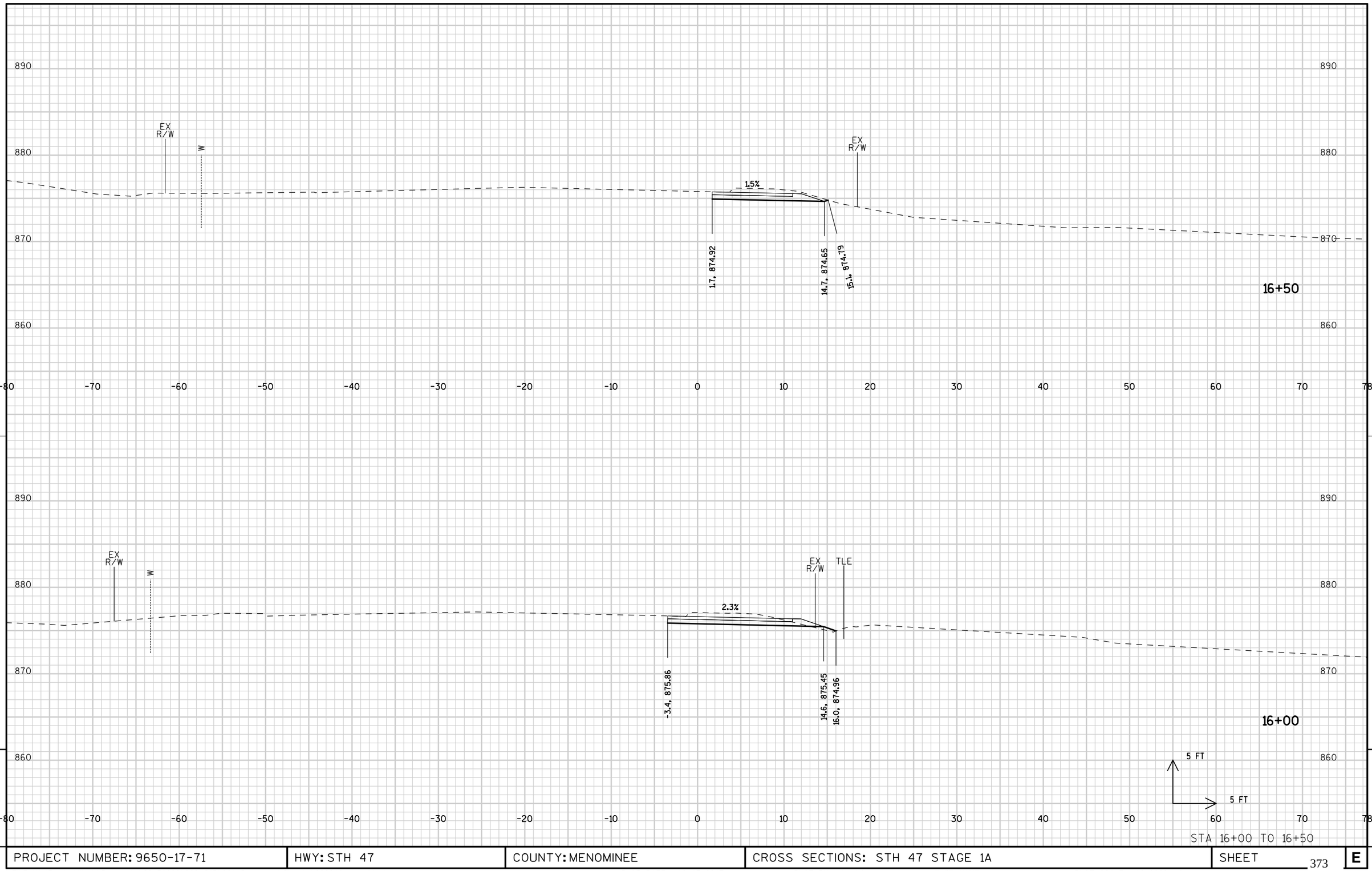
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WISDOT/CADDS SHEET 21



STA 15+00 TO 15+50

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1A	SHEET 372	E

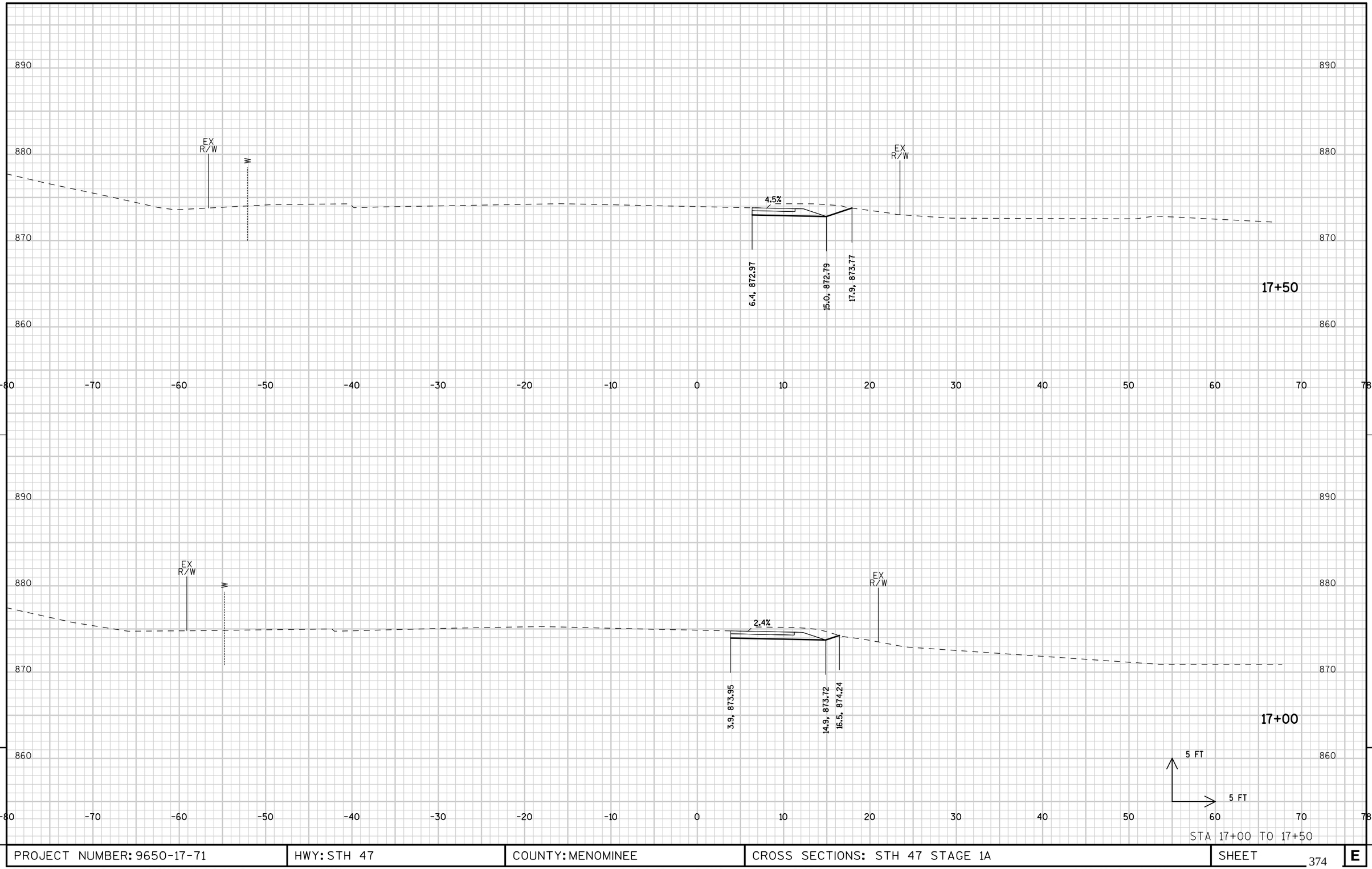


STA 16+00 TO 16+50

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1A	SHEET 373	E

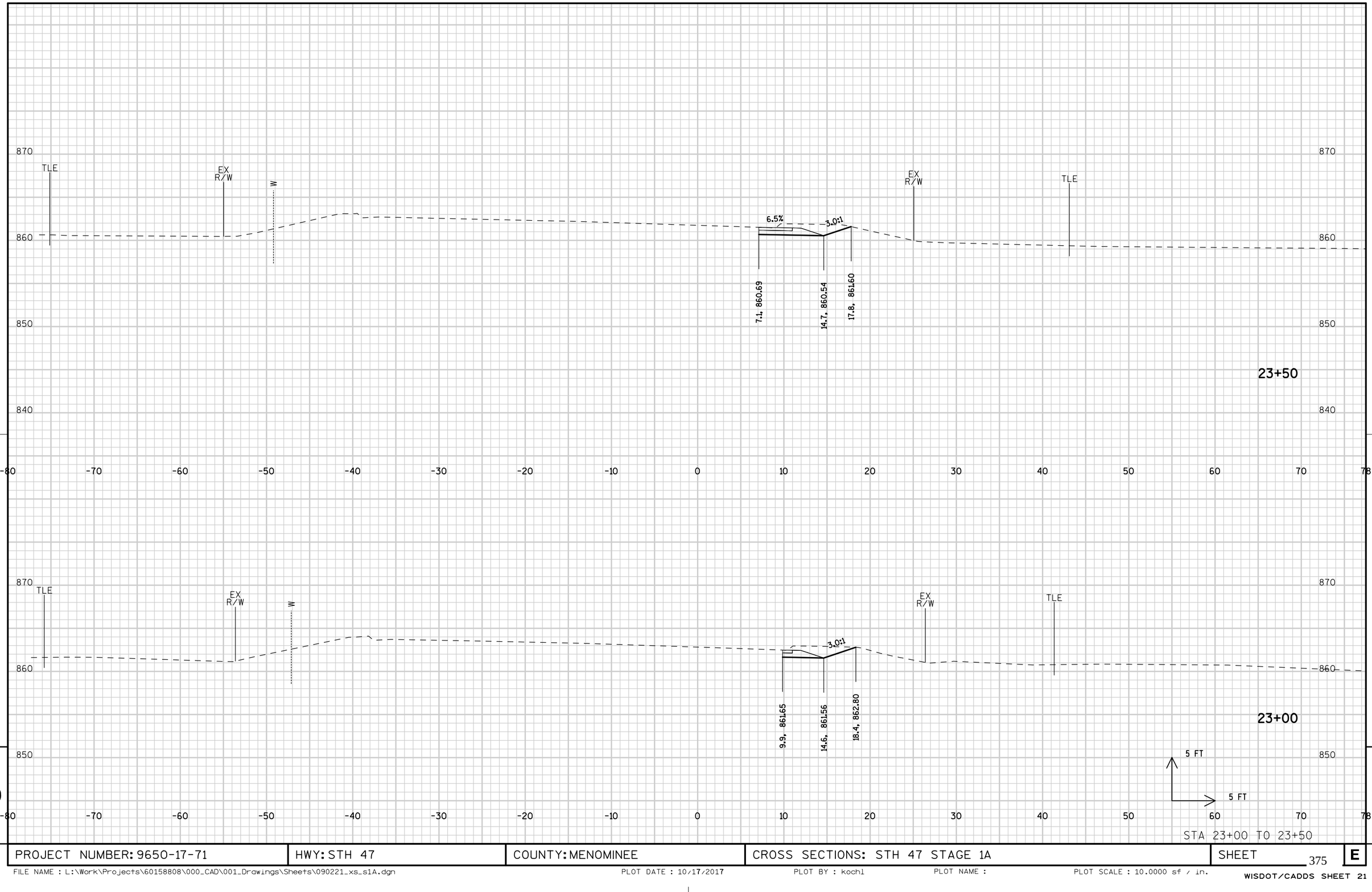
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WISDOT/CADDS SHEET 21



STA 17+00 TO 17+50

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1A	SHEET 374	E

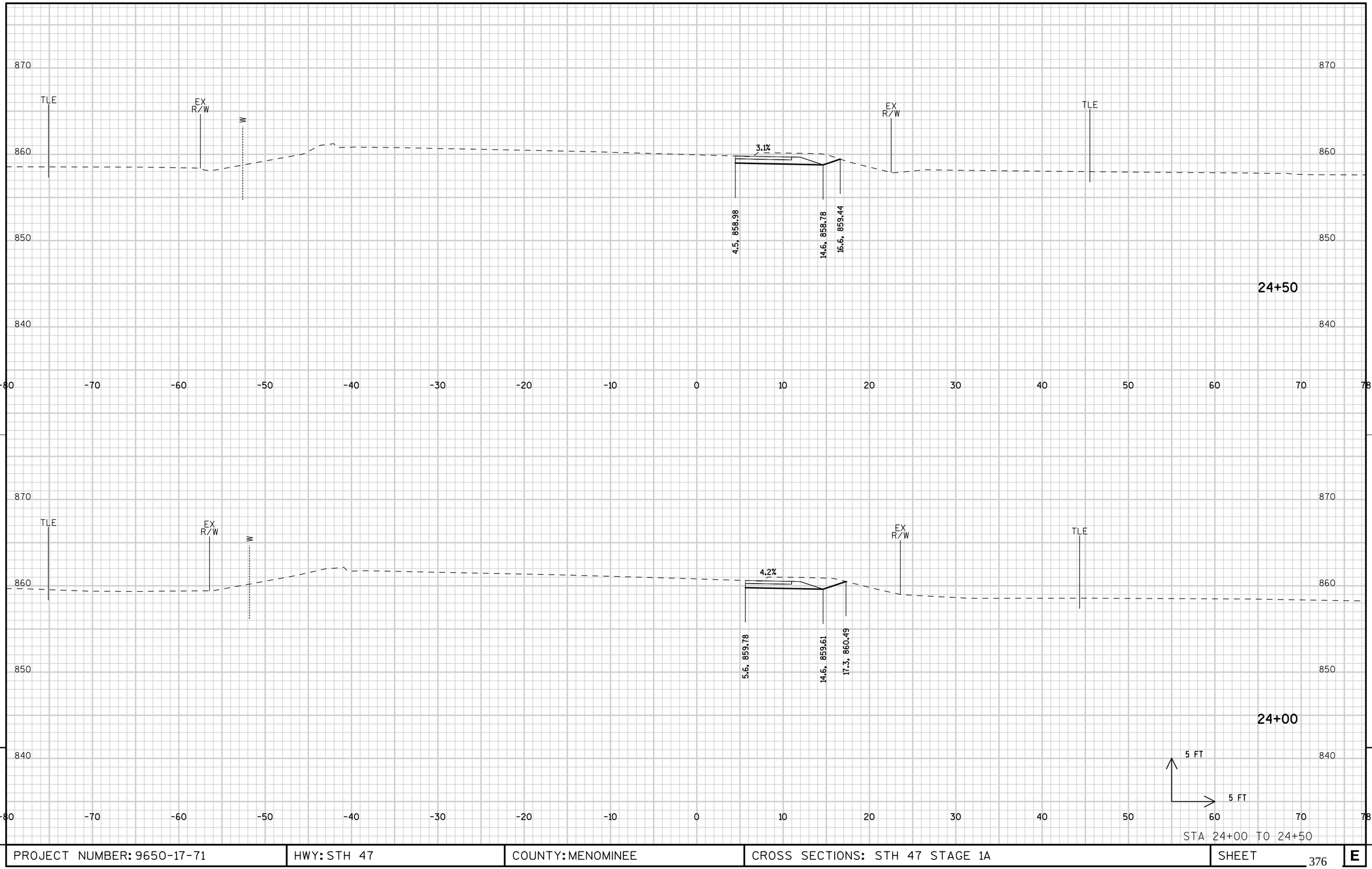


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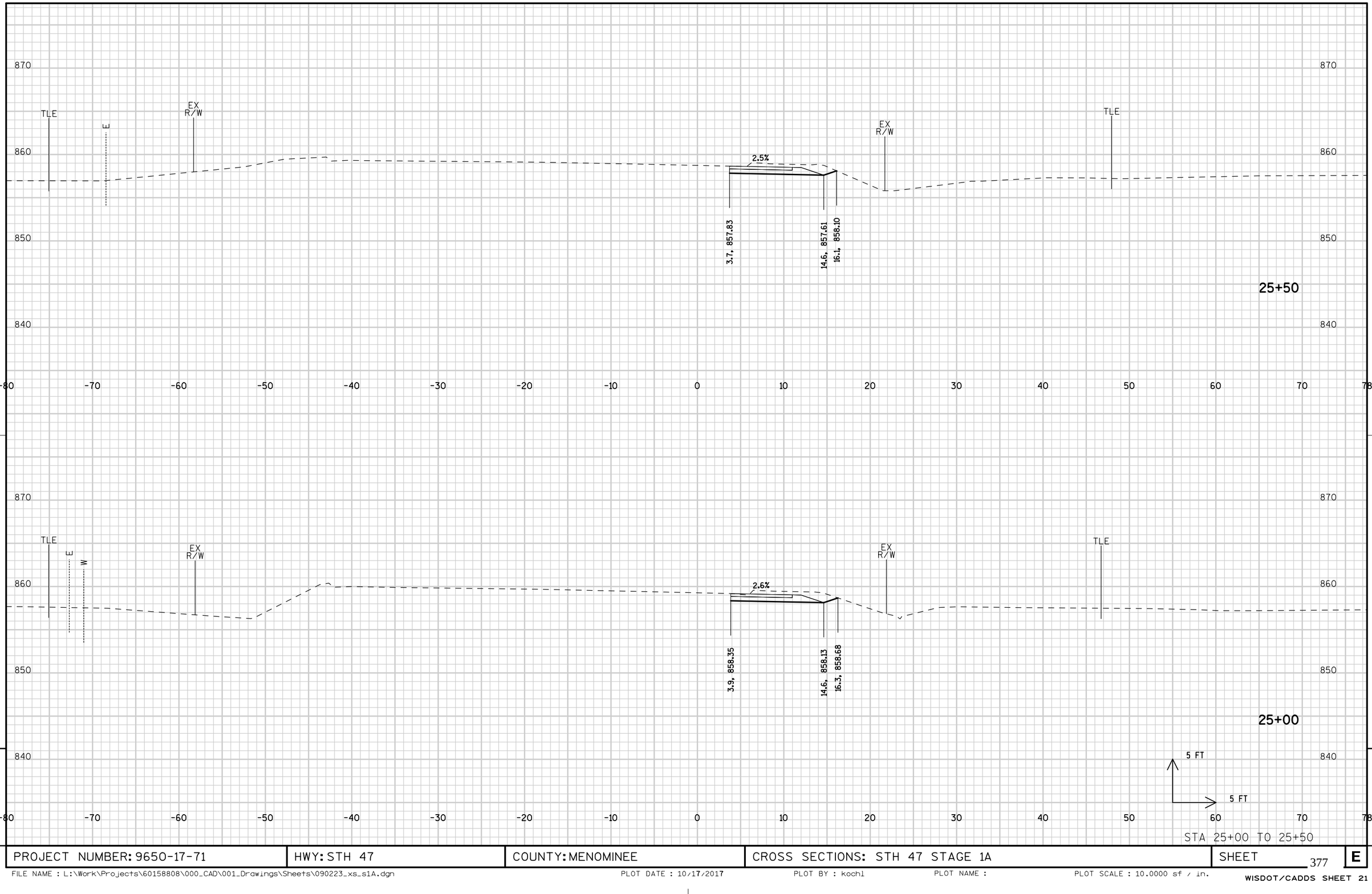
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FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090221_xs_s1A.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.



STA 24+00 TO 24+50

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1A	SHEET 376	E

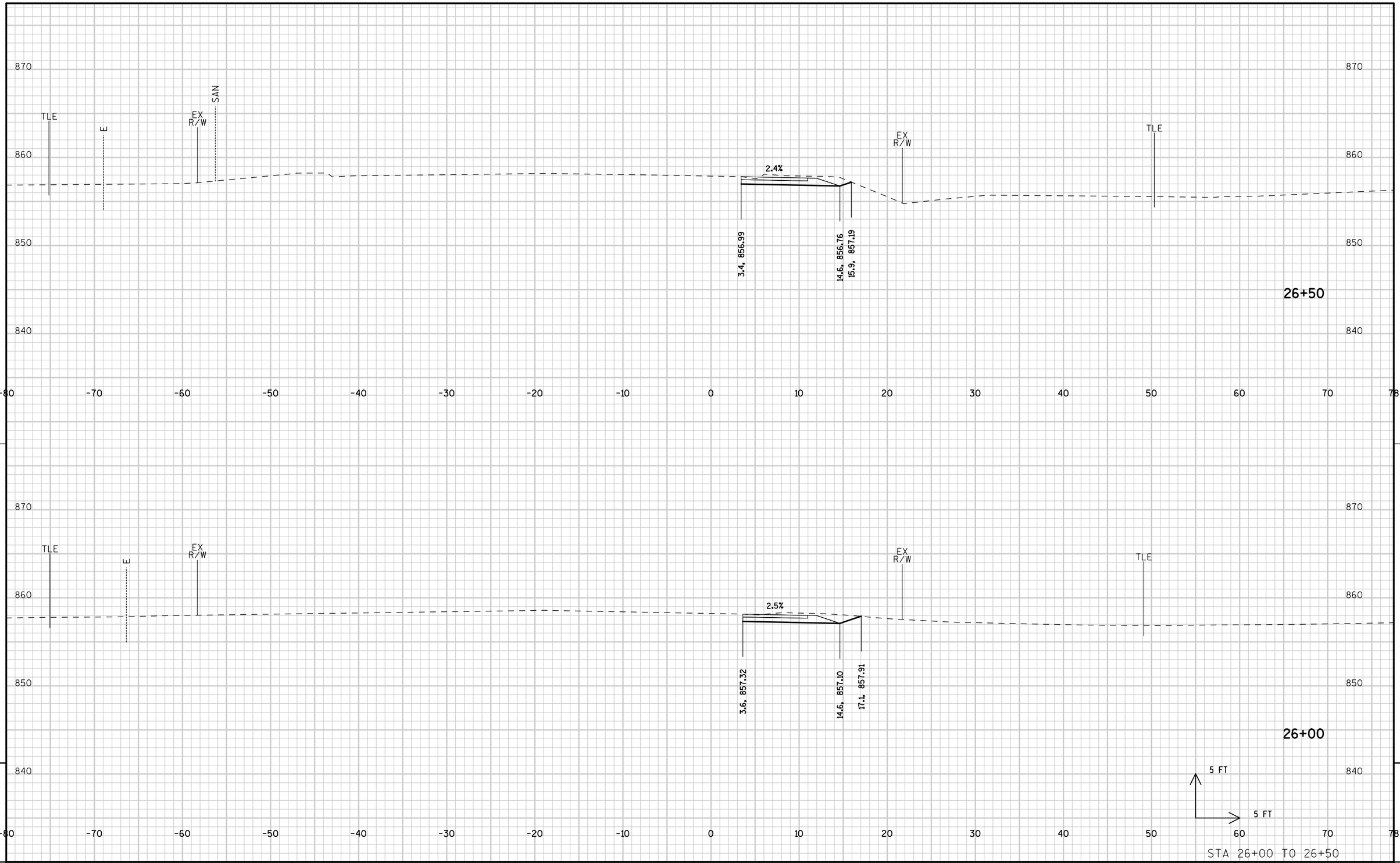


STA 25+00 TO 25+50

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1A	SHEET 377	E

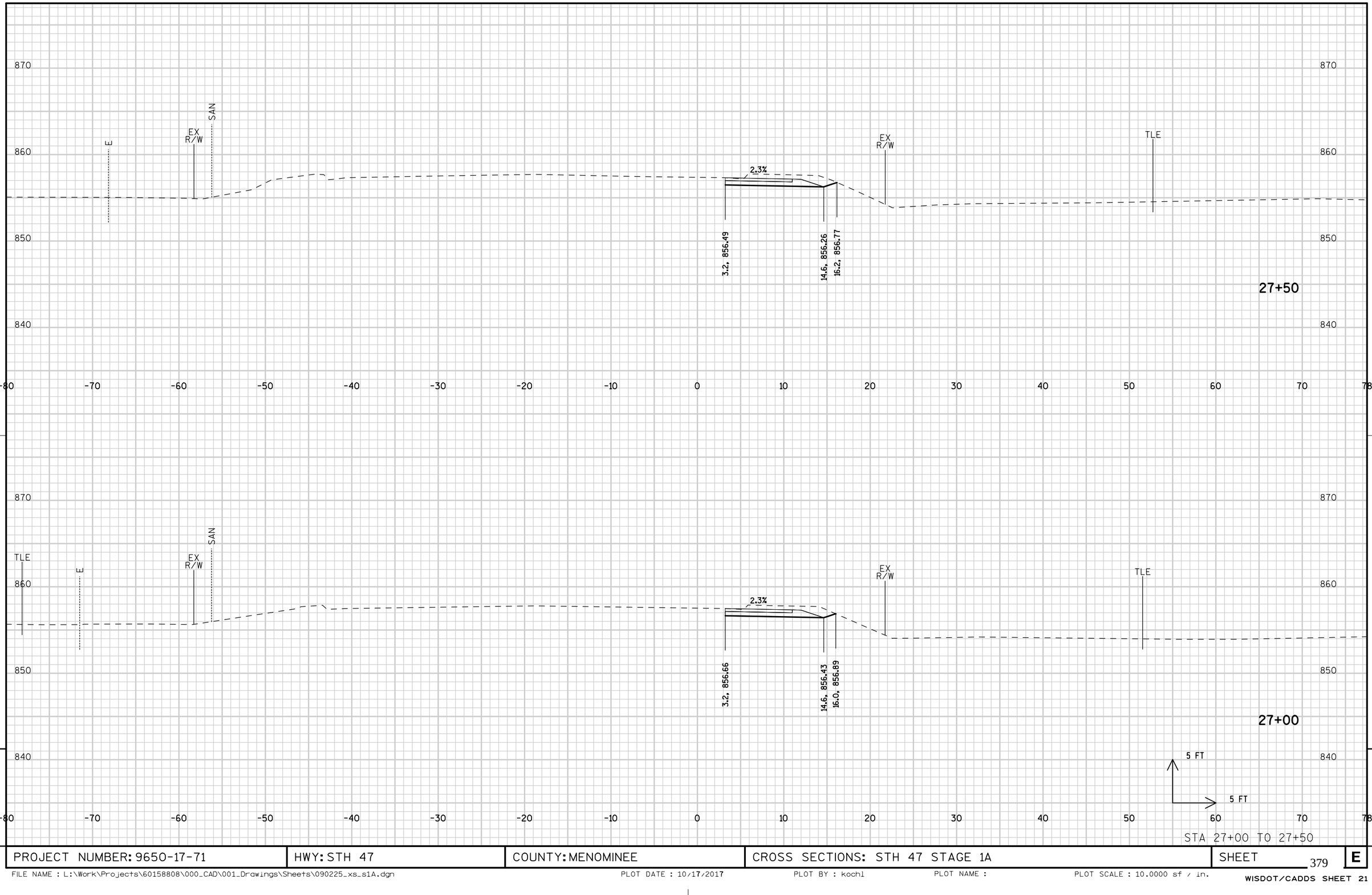
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WISDOT/CADDS SHEET 21



STA 26+00 TO 26+50

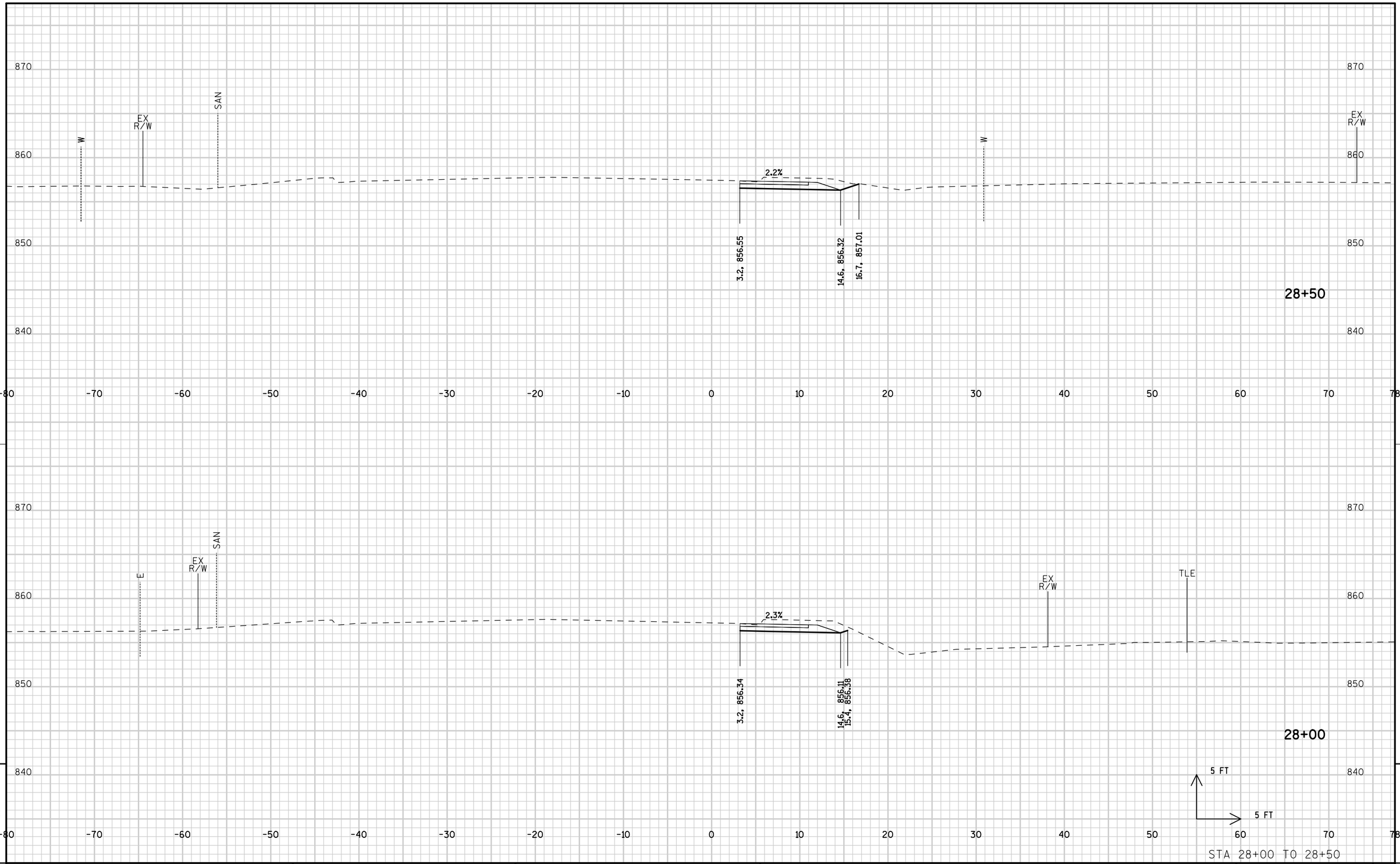
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STA 27+00 TO 27+50

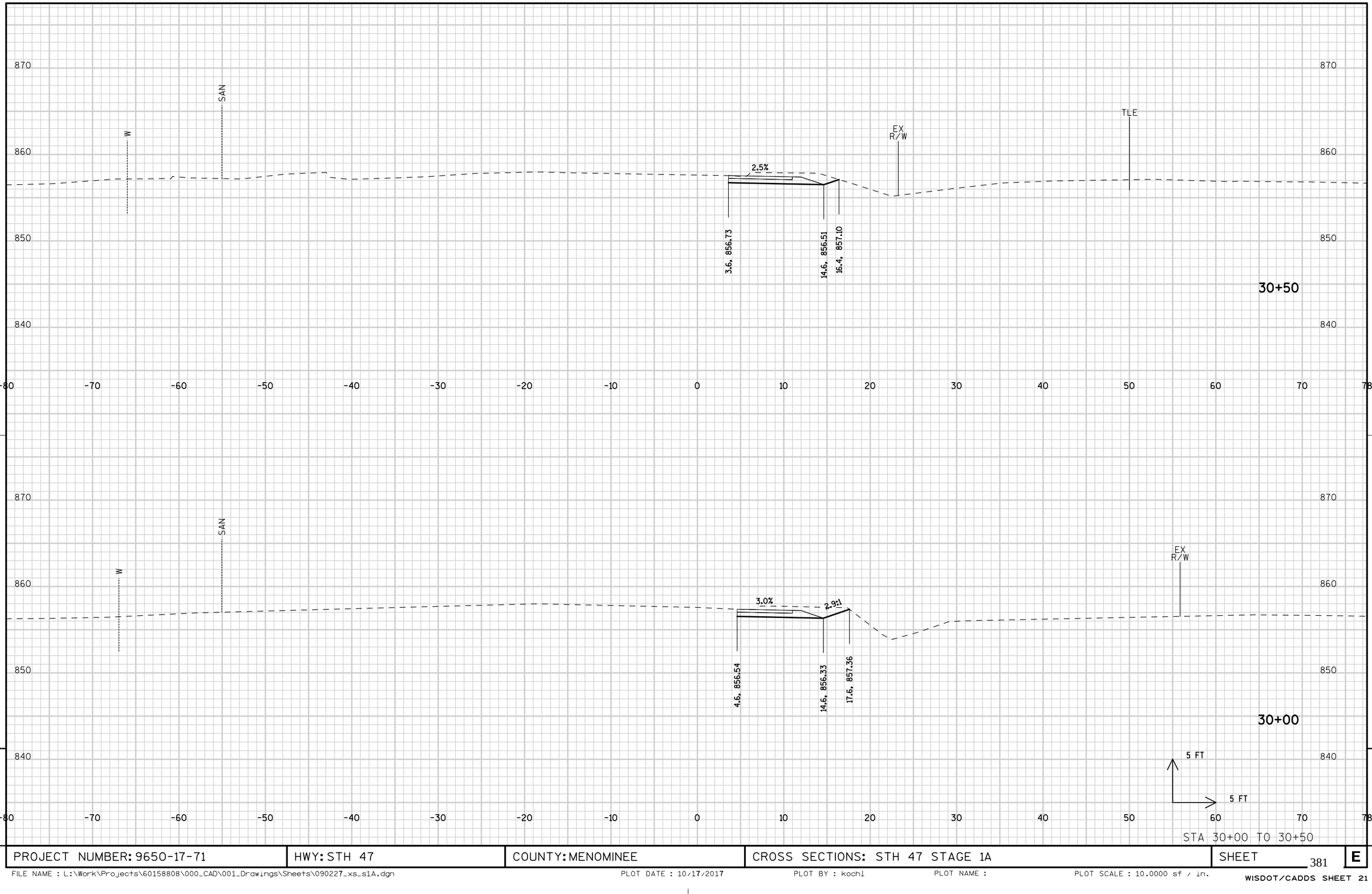
PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1A	SHEET 379	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090225_xs_s1A.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.



STA 28+00 TO 28+50

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1A	SHEET 380	E

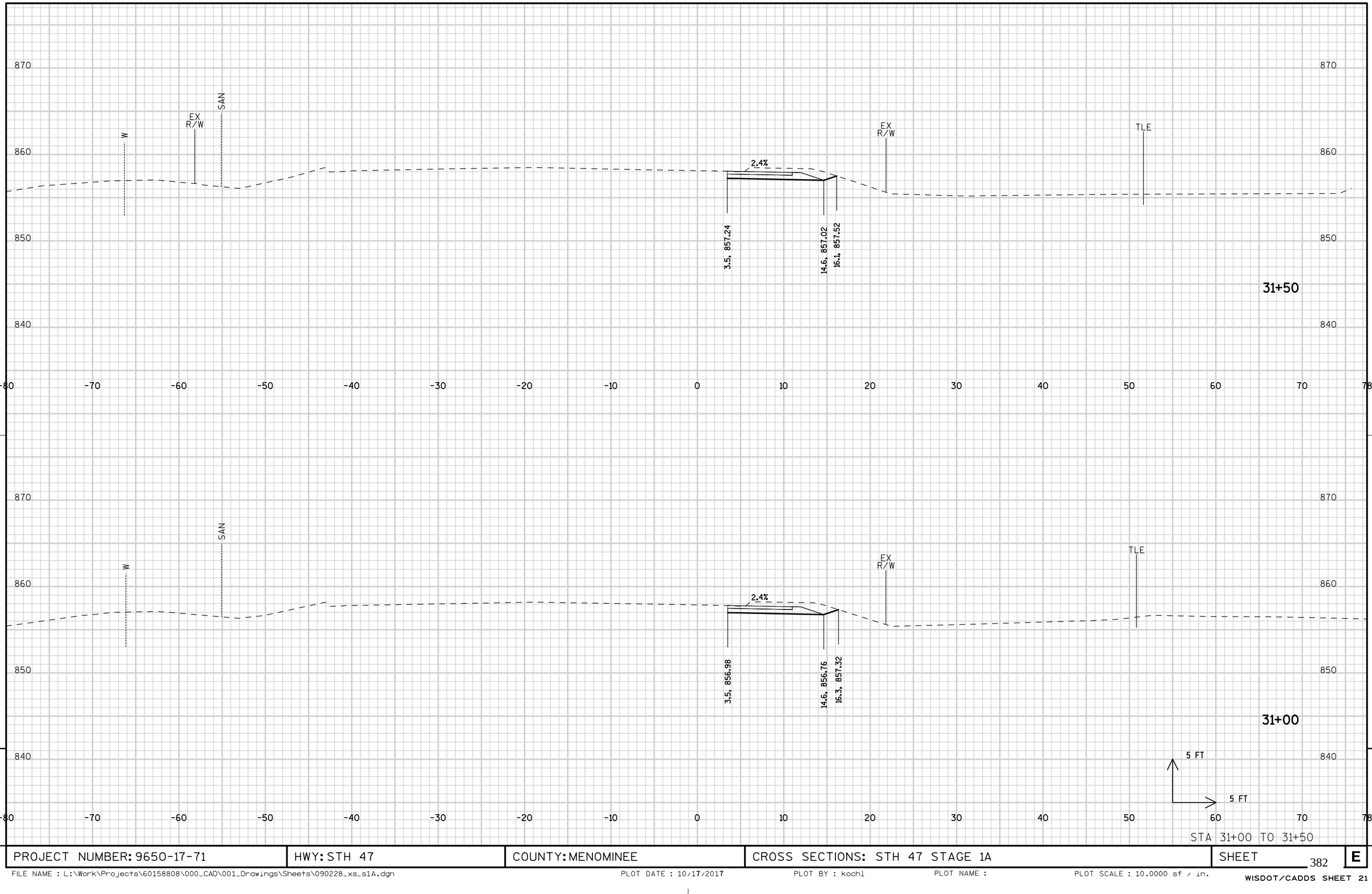


STA 30+00 TO 30+50

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1A	SHEET 381	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090227_xs_s1A.dgn PLOT DATE : 10/17/2017 PLOT BY : Kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21

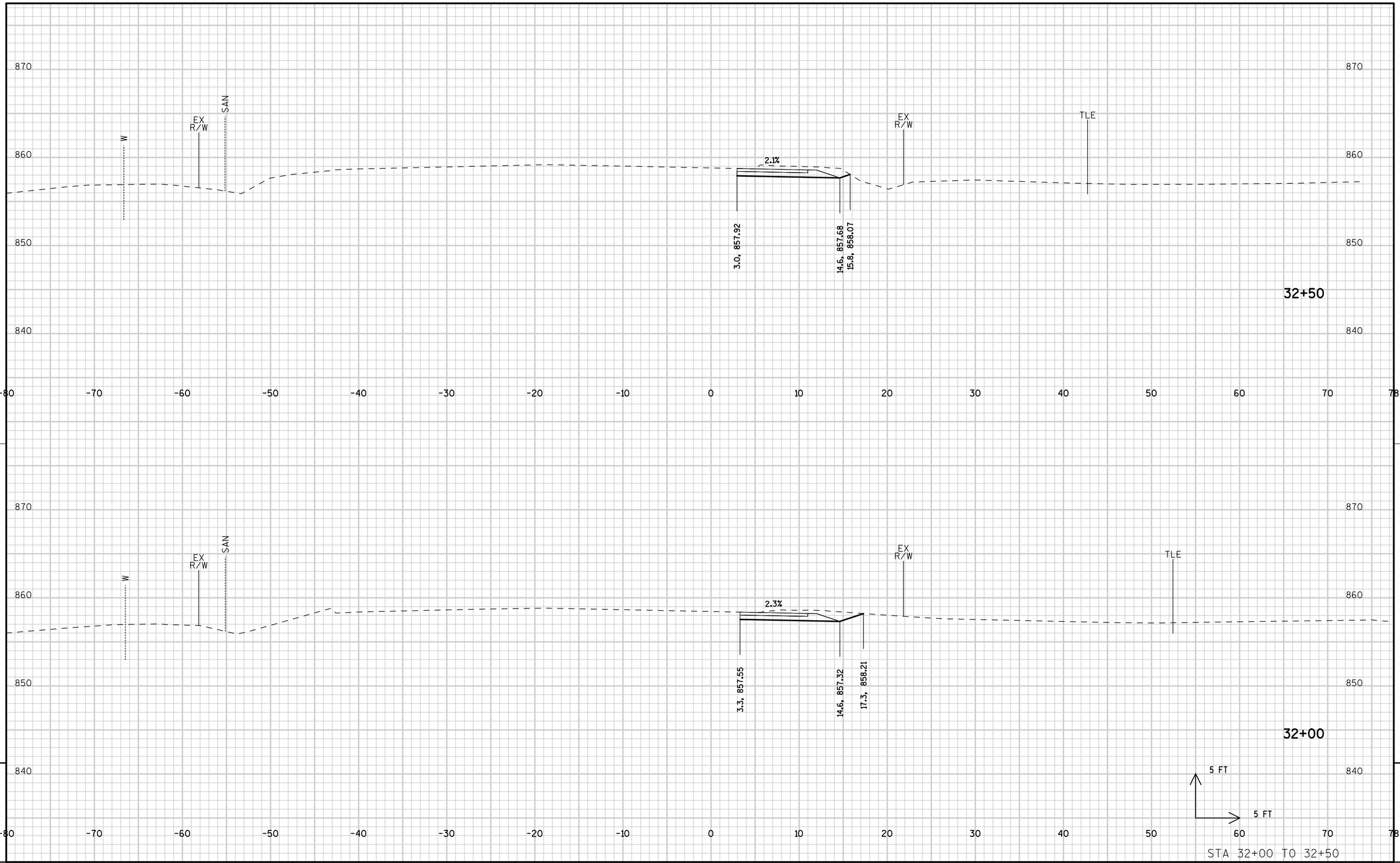


STA 31+00 TO 31+50

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1A	SHEET 382	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090228_xs_s1A.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21



STA 32+00 TO 32+50

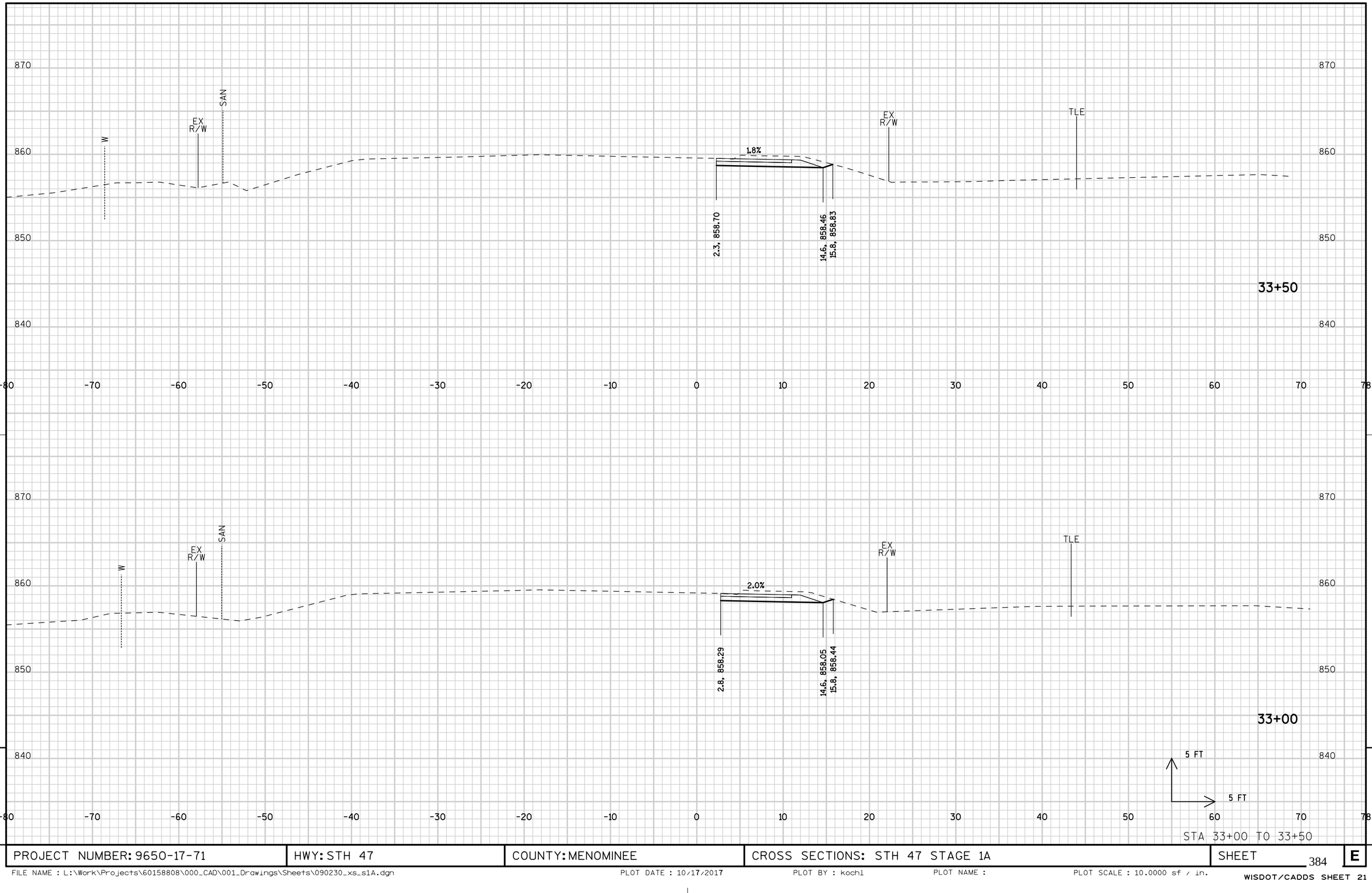
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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1A	SHEET 383	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090229_xs_s1A.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

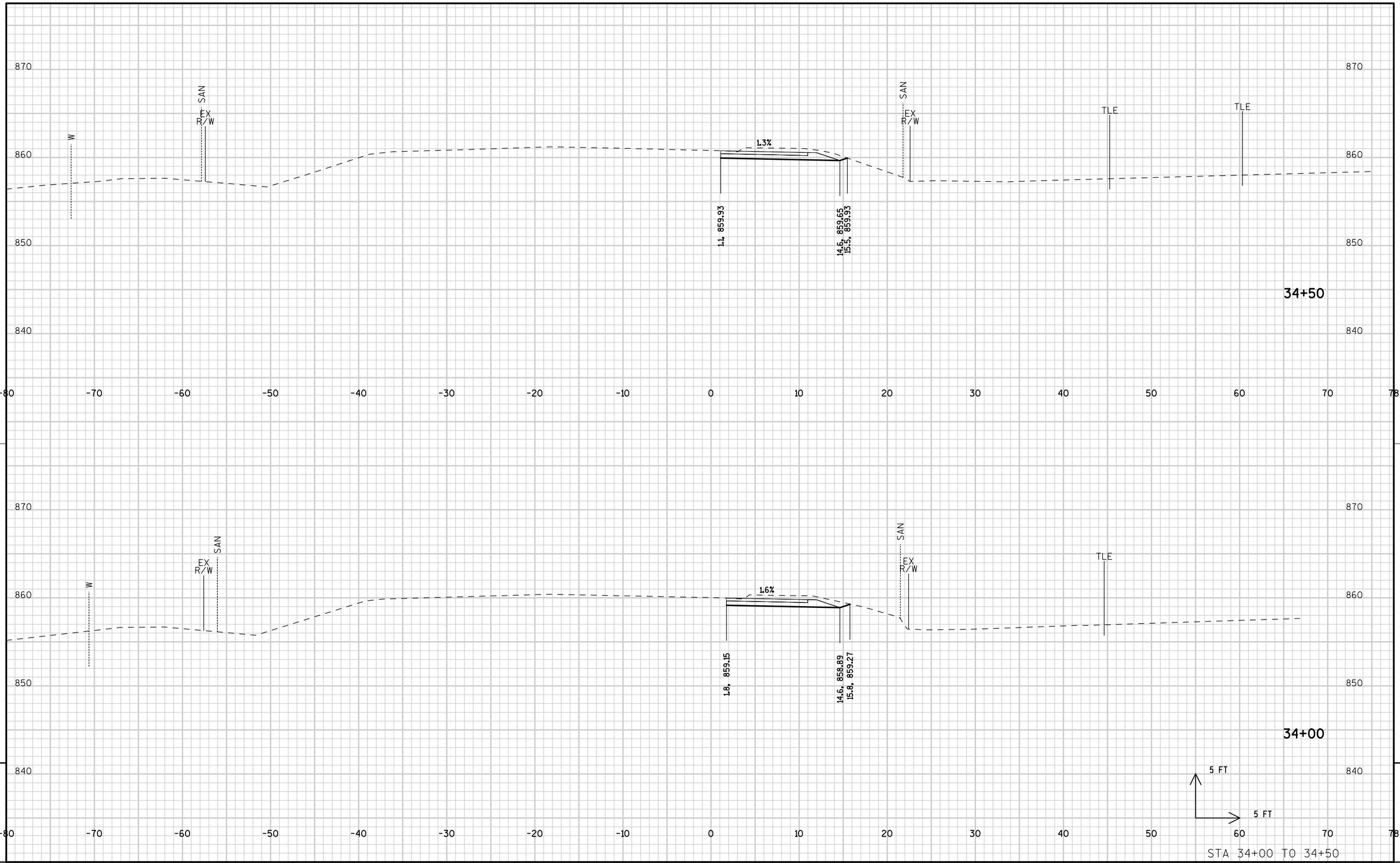
WISDOT/CADDS SHEET 21



STA 33+00 TO 33+50

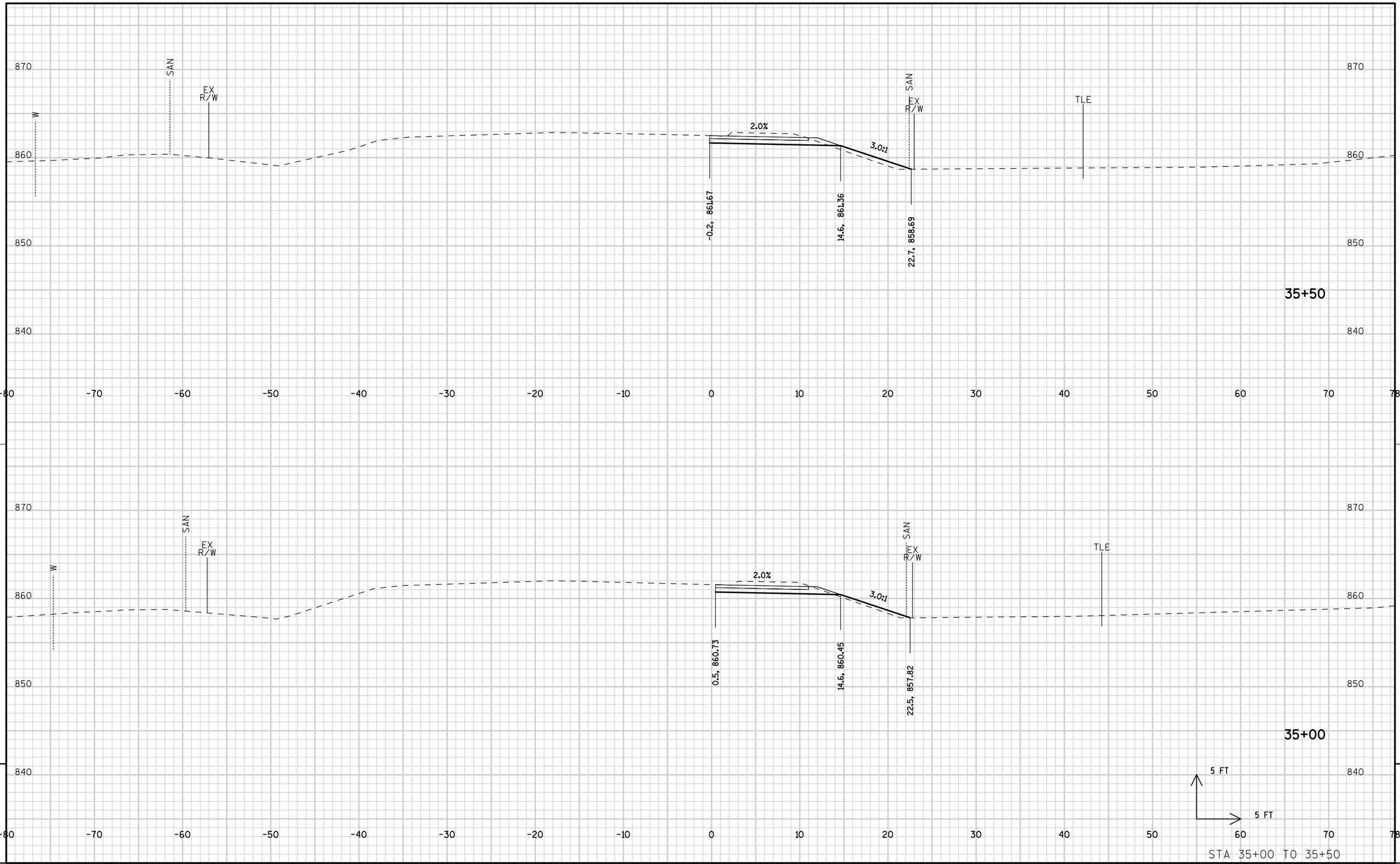
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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1A	SHEET 384	E



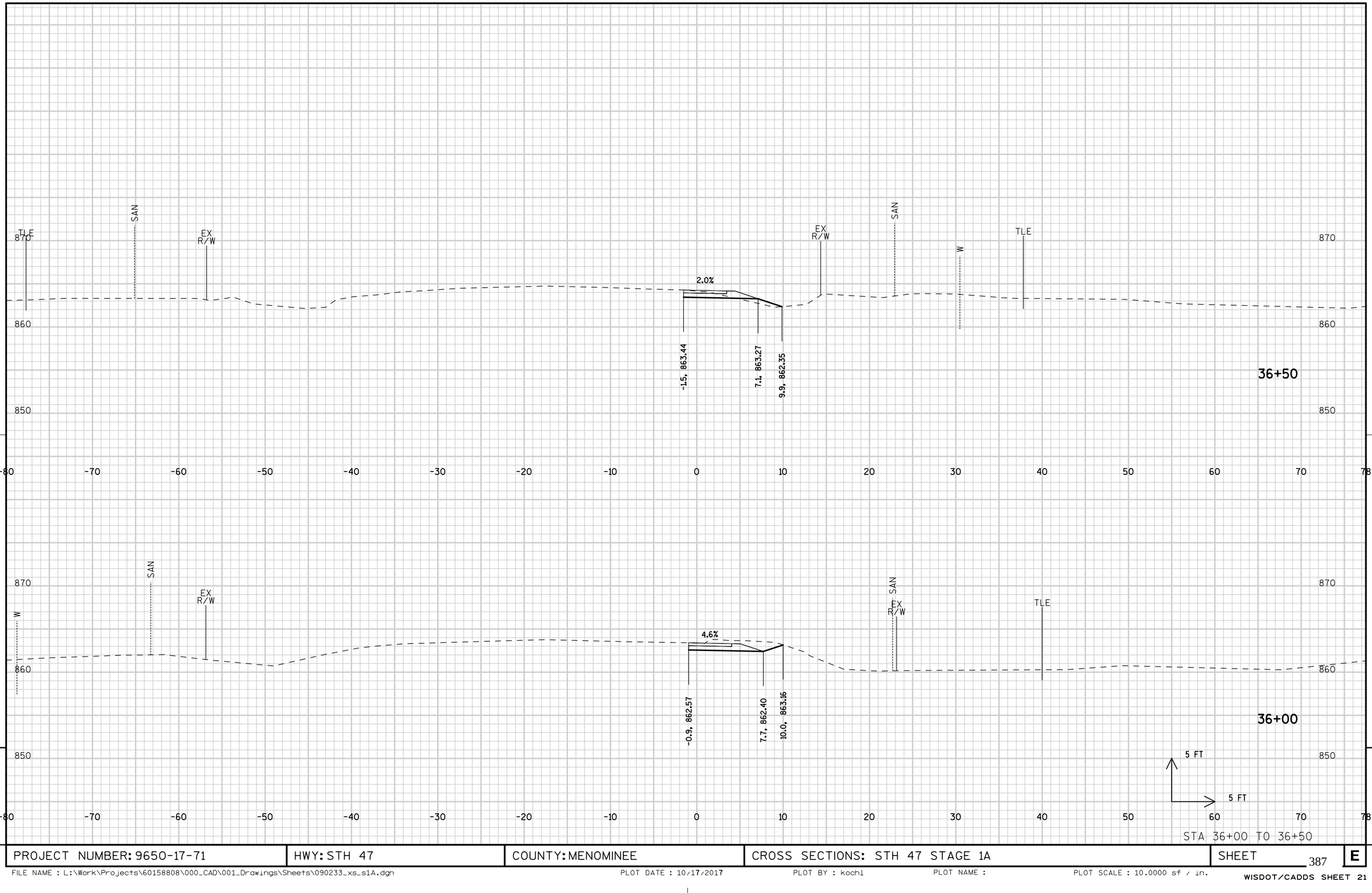
STA 34+00 TO 34+50

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1A	SHEET 385	E



STA 35+00 TO 35+50

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1A	SHEET 386	E

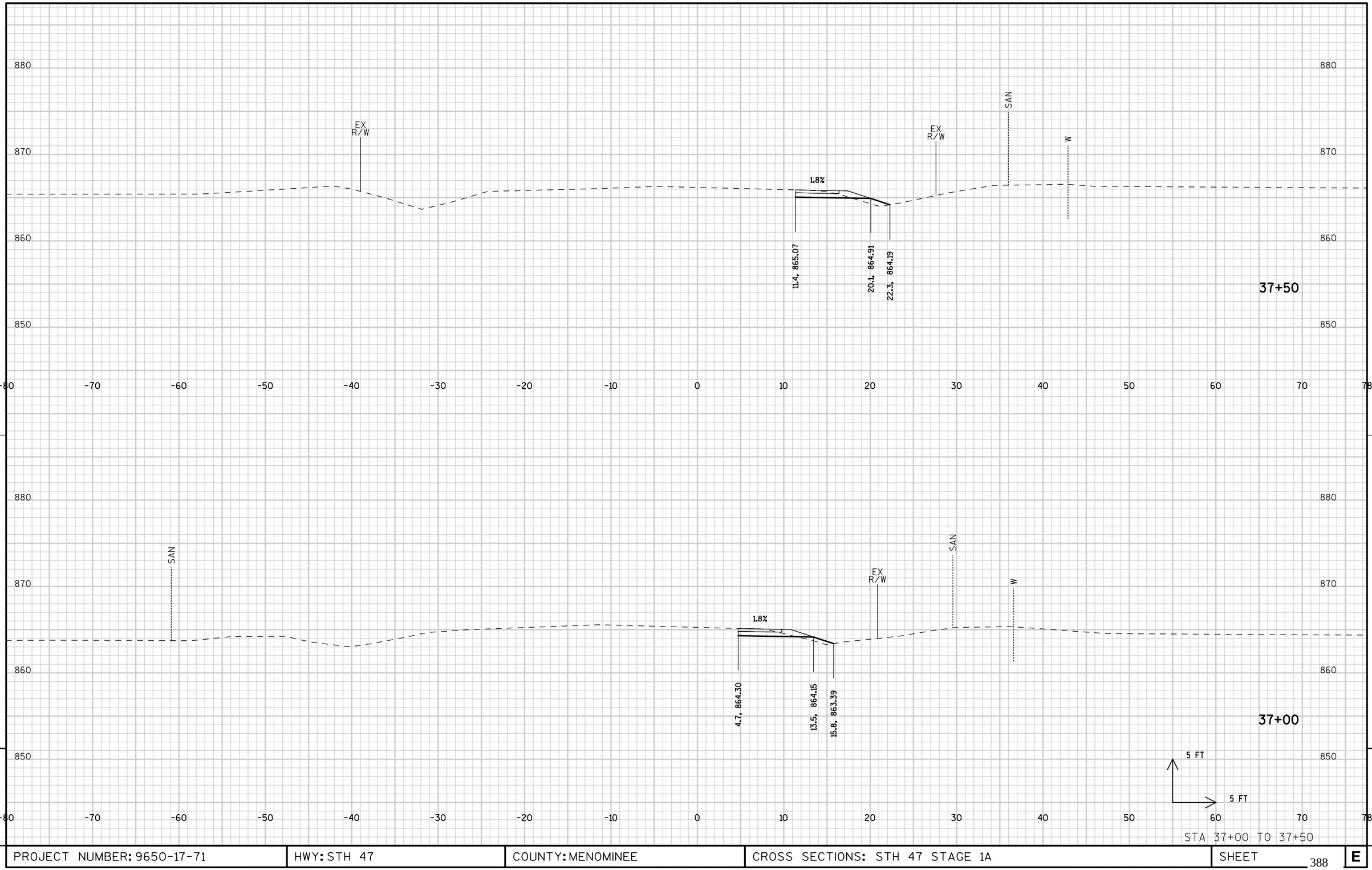


STA 36+00 TO 36+50

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1A	SHEET 387	E

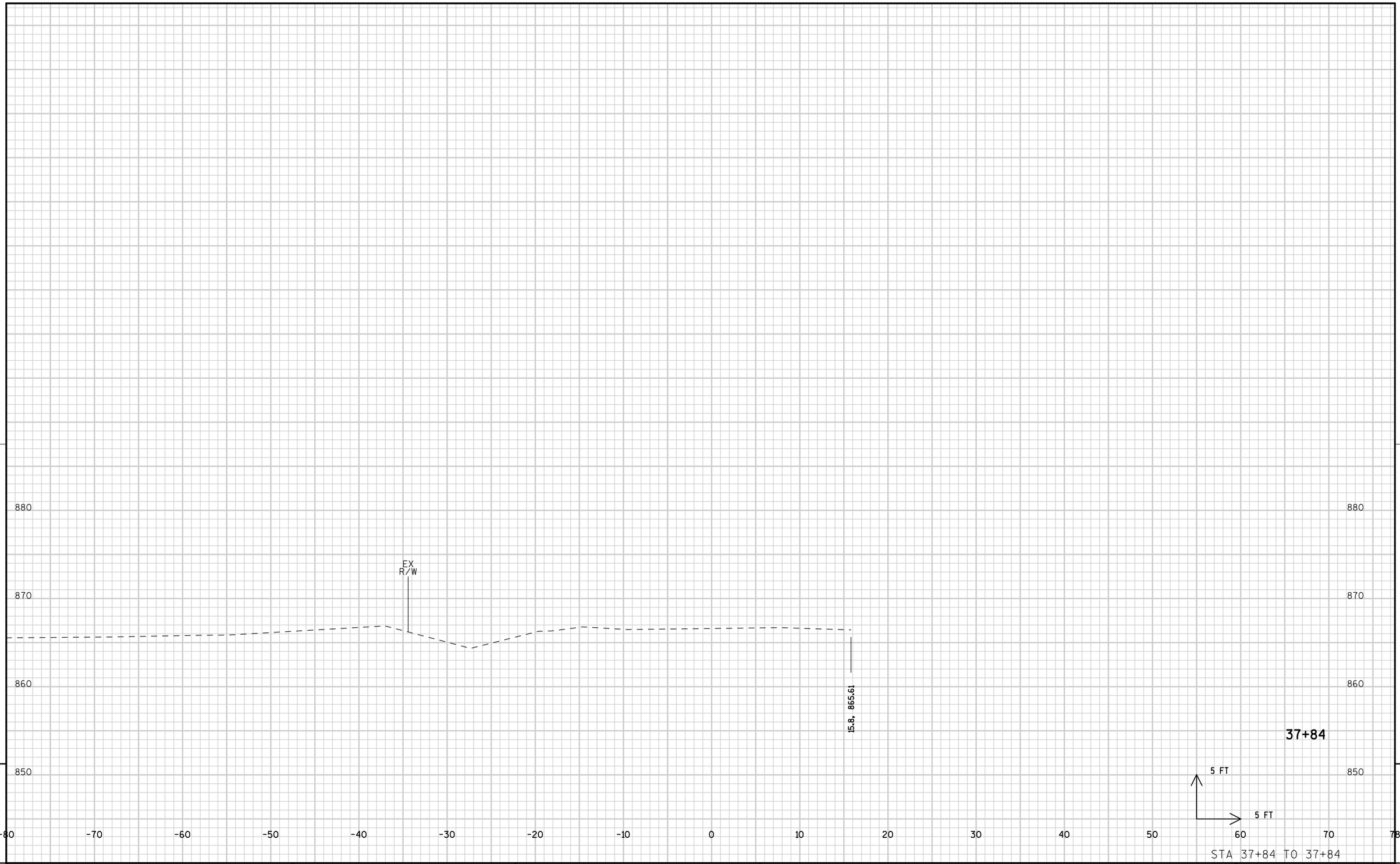
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WISDOT/CADDS SHEET 21



STA 37+00 TO 37+50

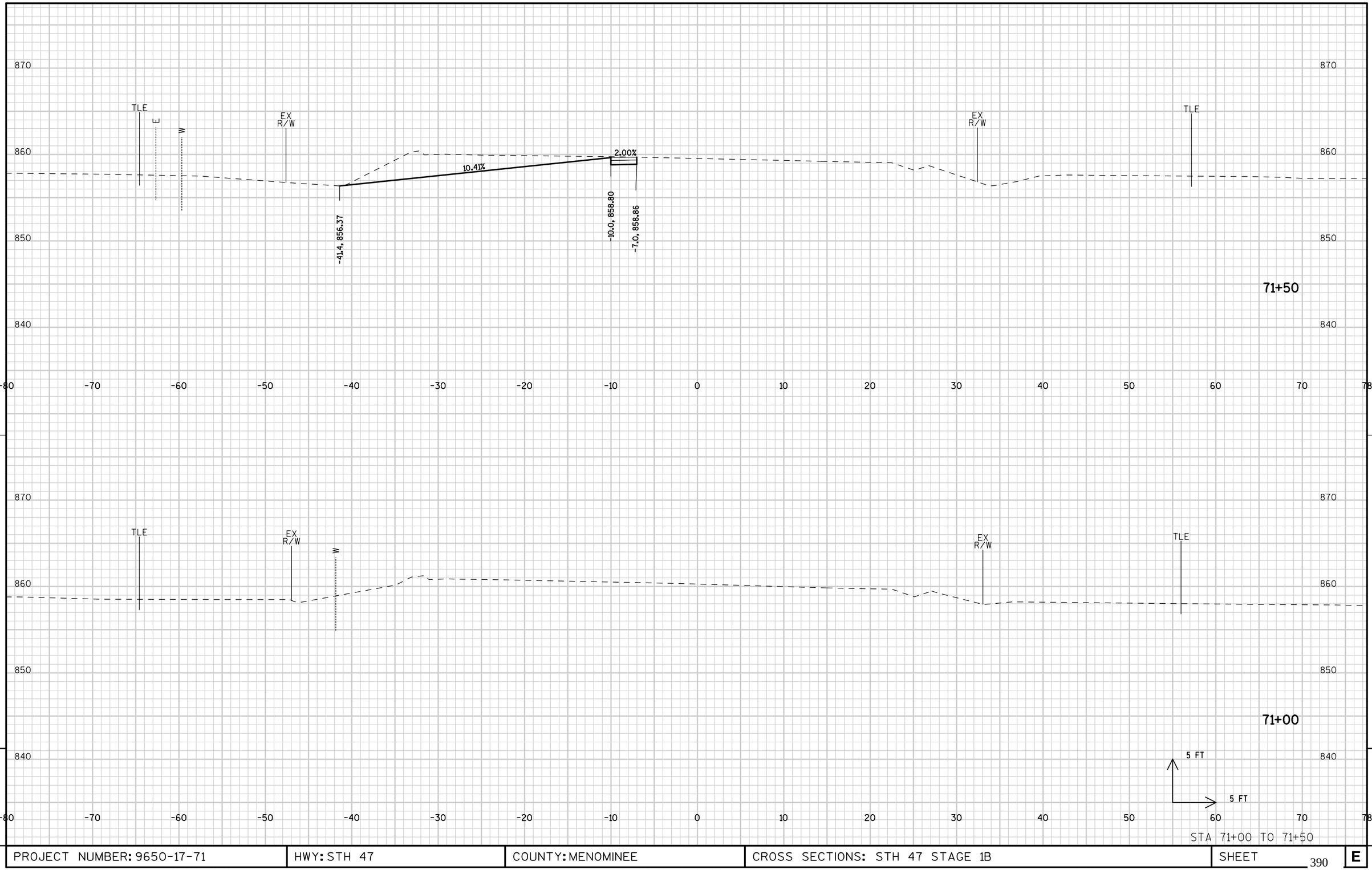
PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1A	SHEET 388	E



9

9

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1A	SHEET 389	E

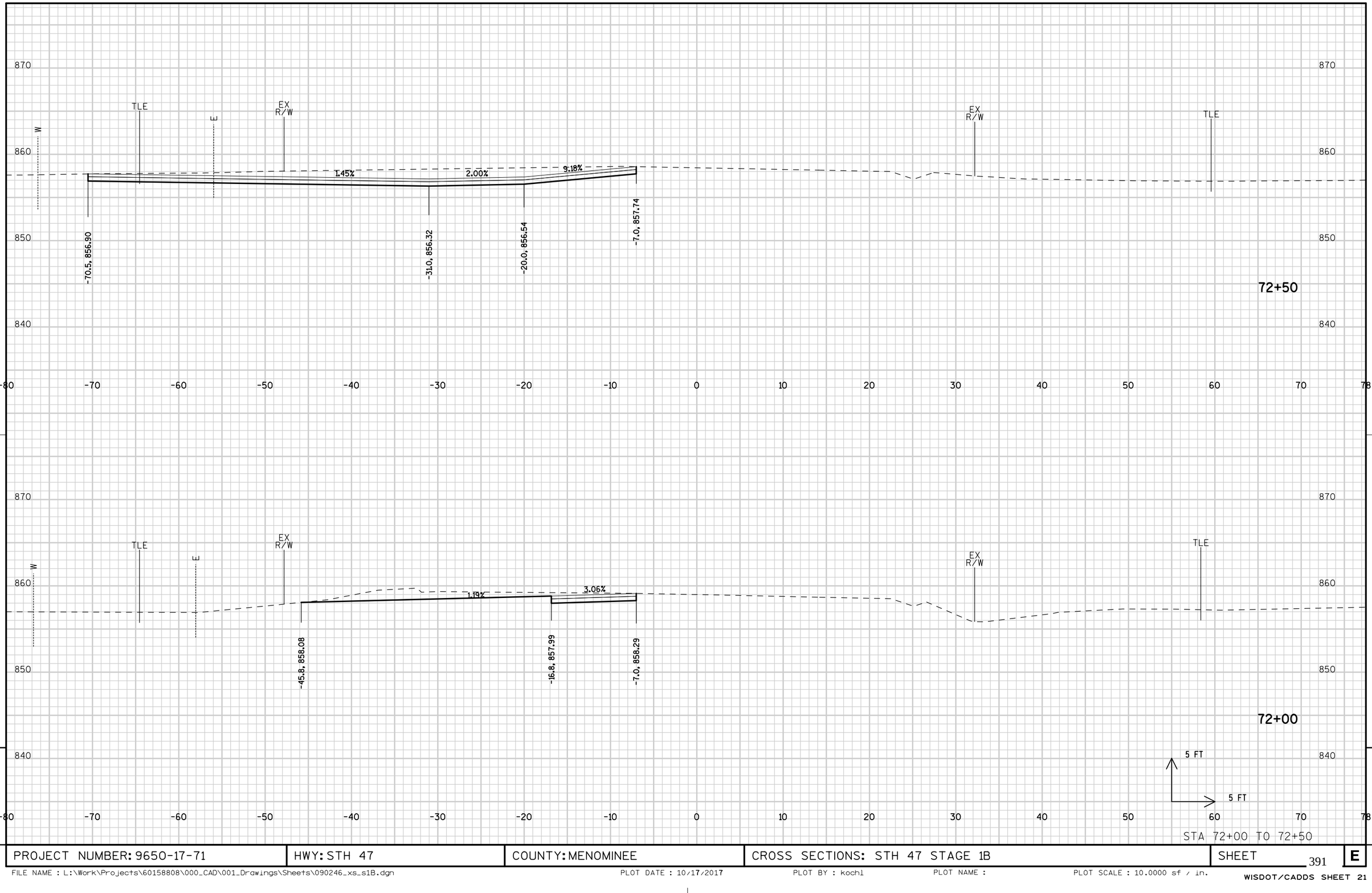


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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1B	SHEET 390	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090245_xs_s1B.dgn
PLOT DATE : 10/17/2017
PLOT BY : kochl
PLOT NAME :
PLOT SCALE : 10.0000 sf / in.
WISDOT/CADDS SHEET 21



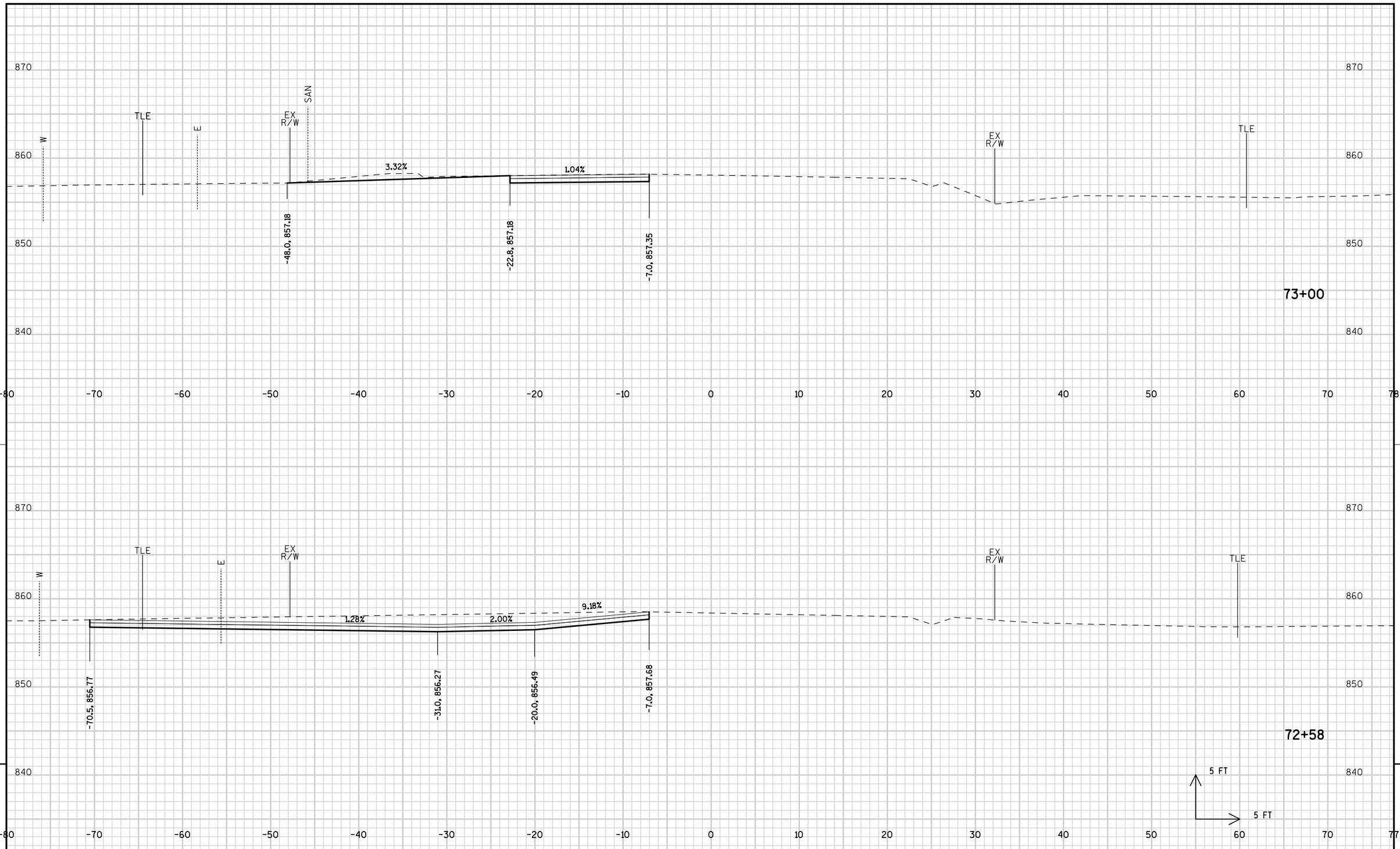
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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1B	SHEET 391	E

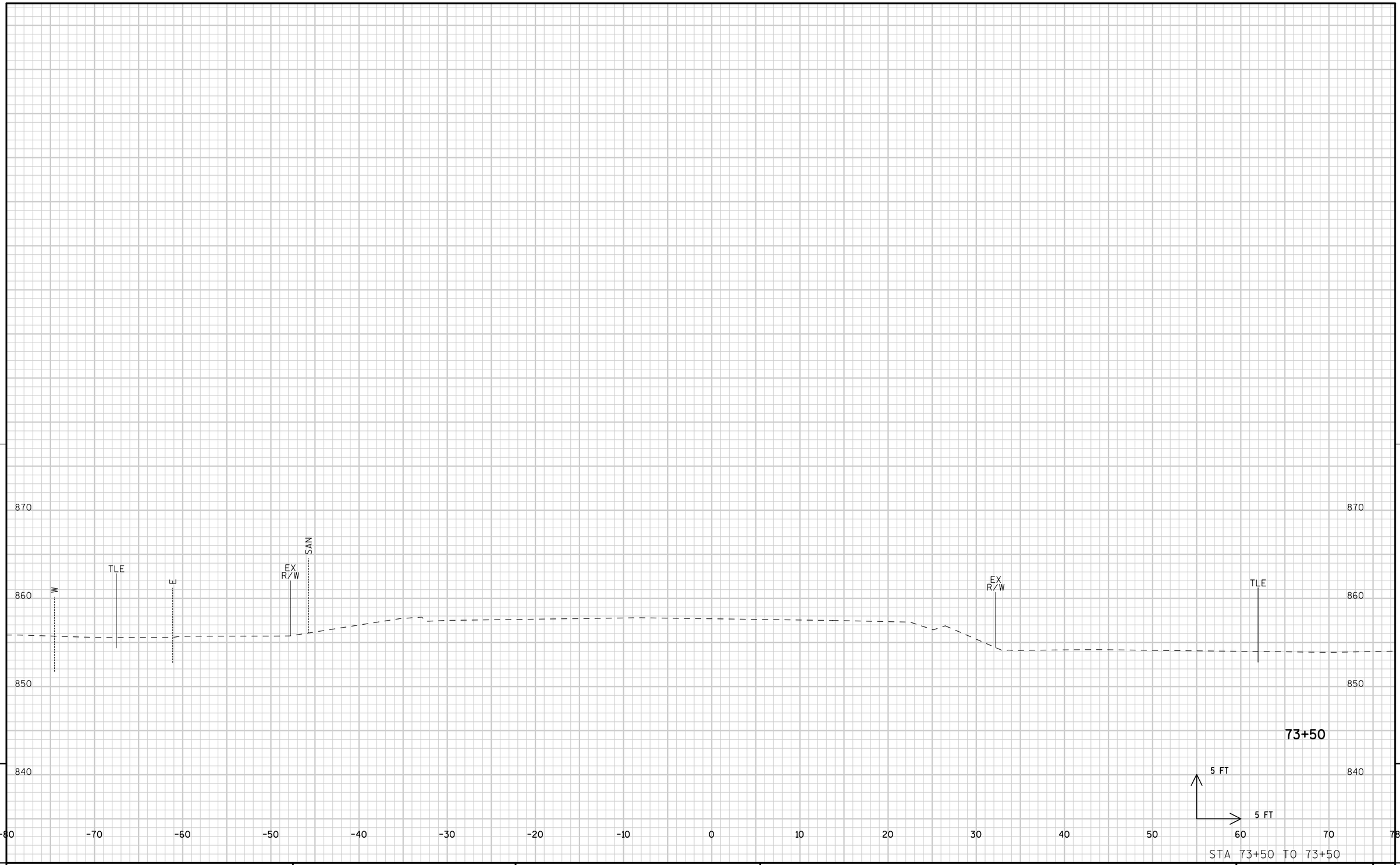
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WISDOT/CADDS SHEET 21



PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1B	SHEET 392	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090247_xs_s1B.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.
WISDOT/CADDS SHEET 21



9

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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1B	SHEET 393	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090248_xs_s1B.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21

890

880

870

860

850

-80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 78

48+67

5 FT

5 FT

STA 48+67 TO 48+67

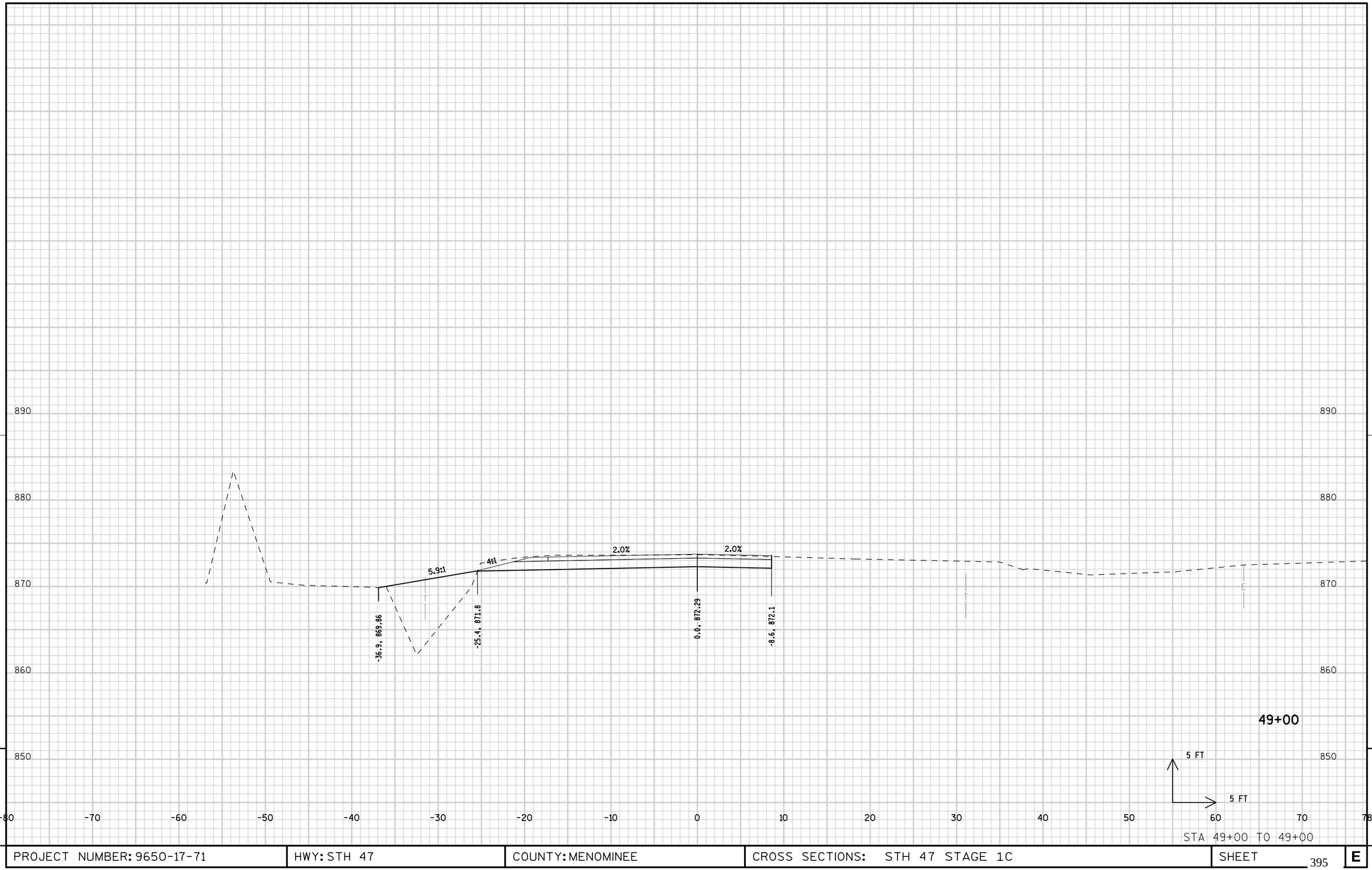
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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1C	SHEET 394	E

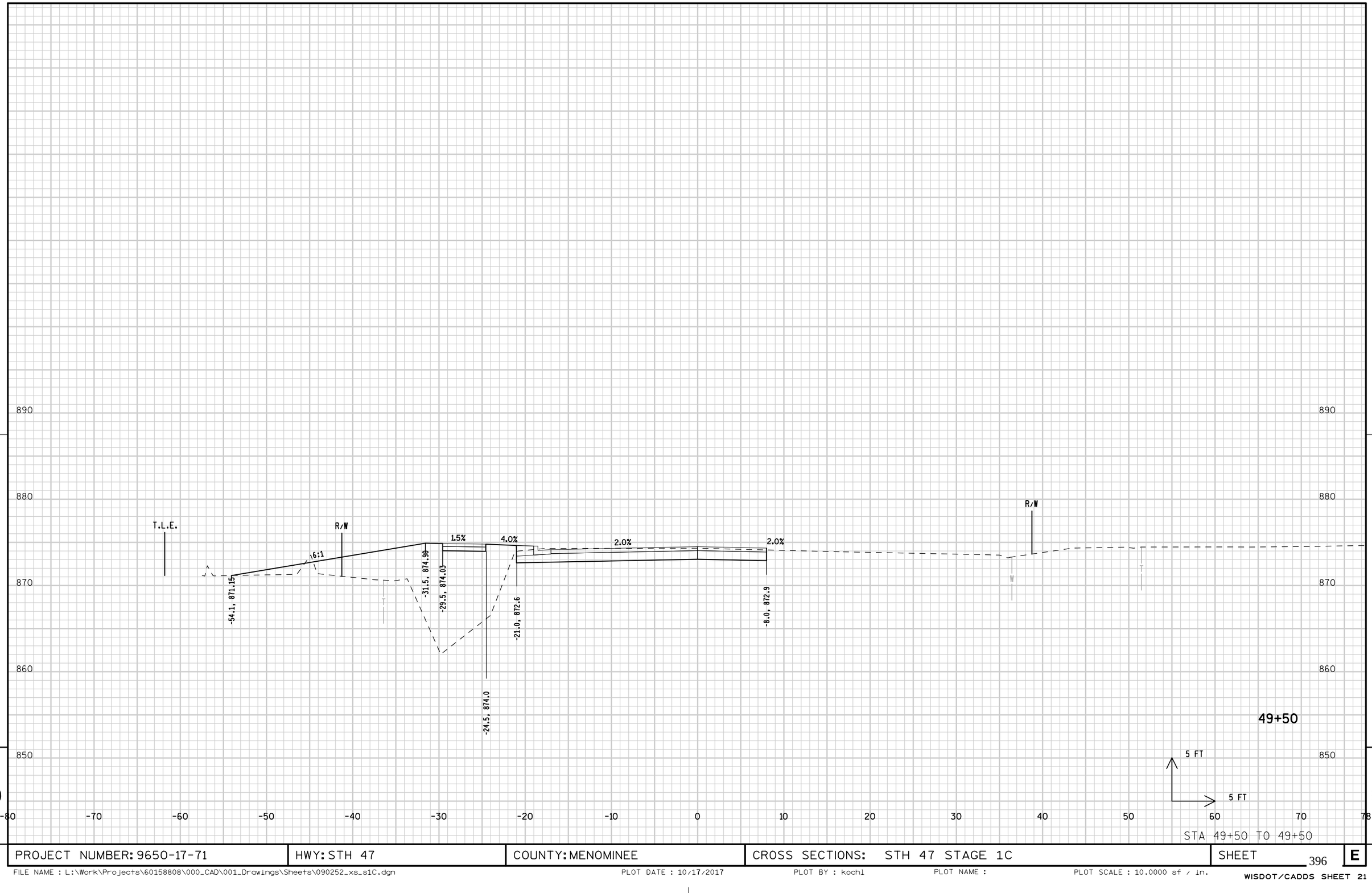
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WISDOT/CADDS SHEET 21



STA 49+00 TO 49+00

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1C	SHEET 395	E

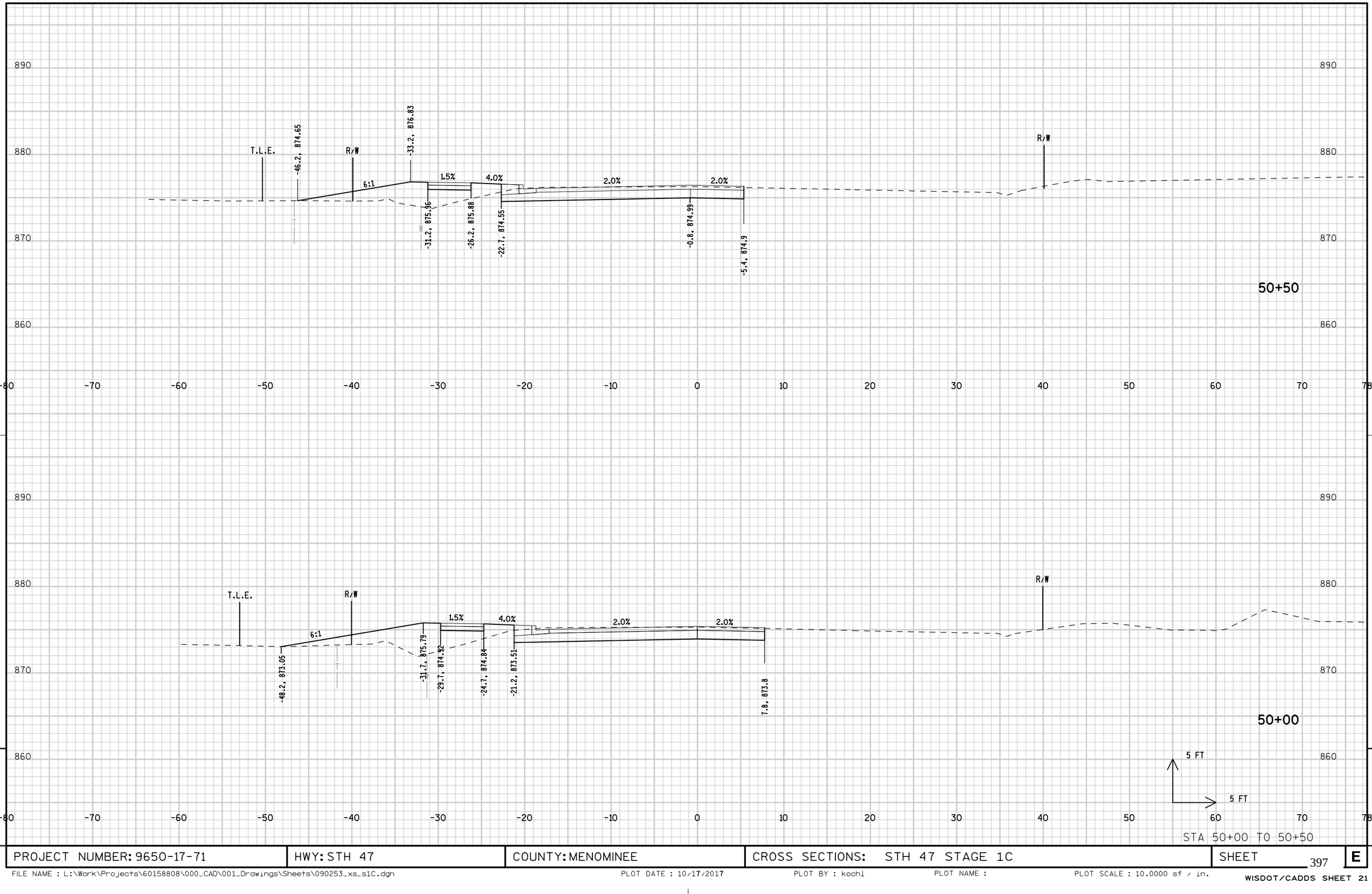


STA 49+50 TO 49+50

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1C	SHEET 396	E

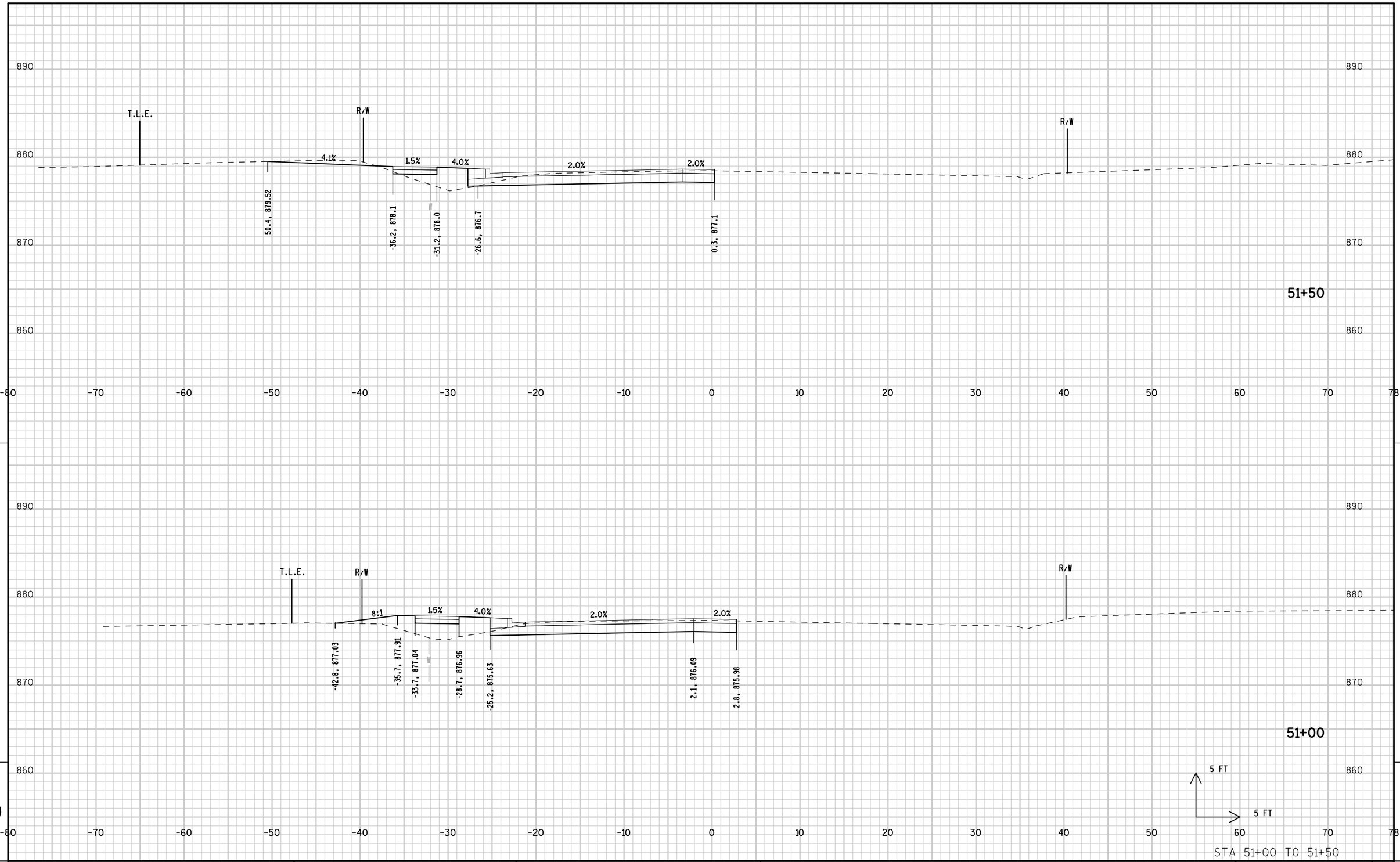
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WISDOT/CADDS SHEET 21



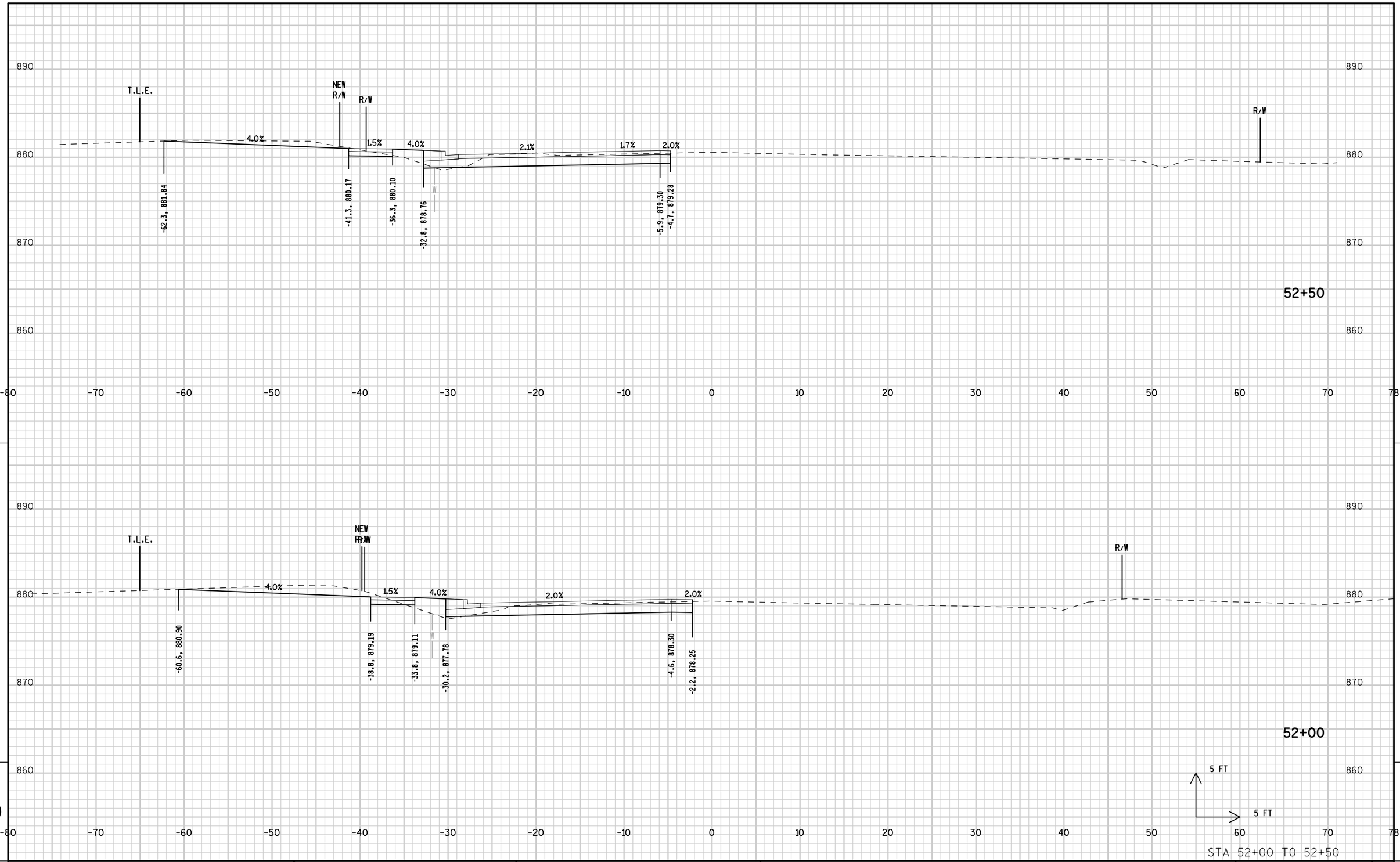
STA 50+00 TO 50+50

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1C	SHEET 397	E

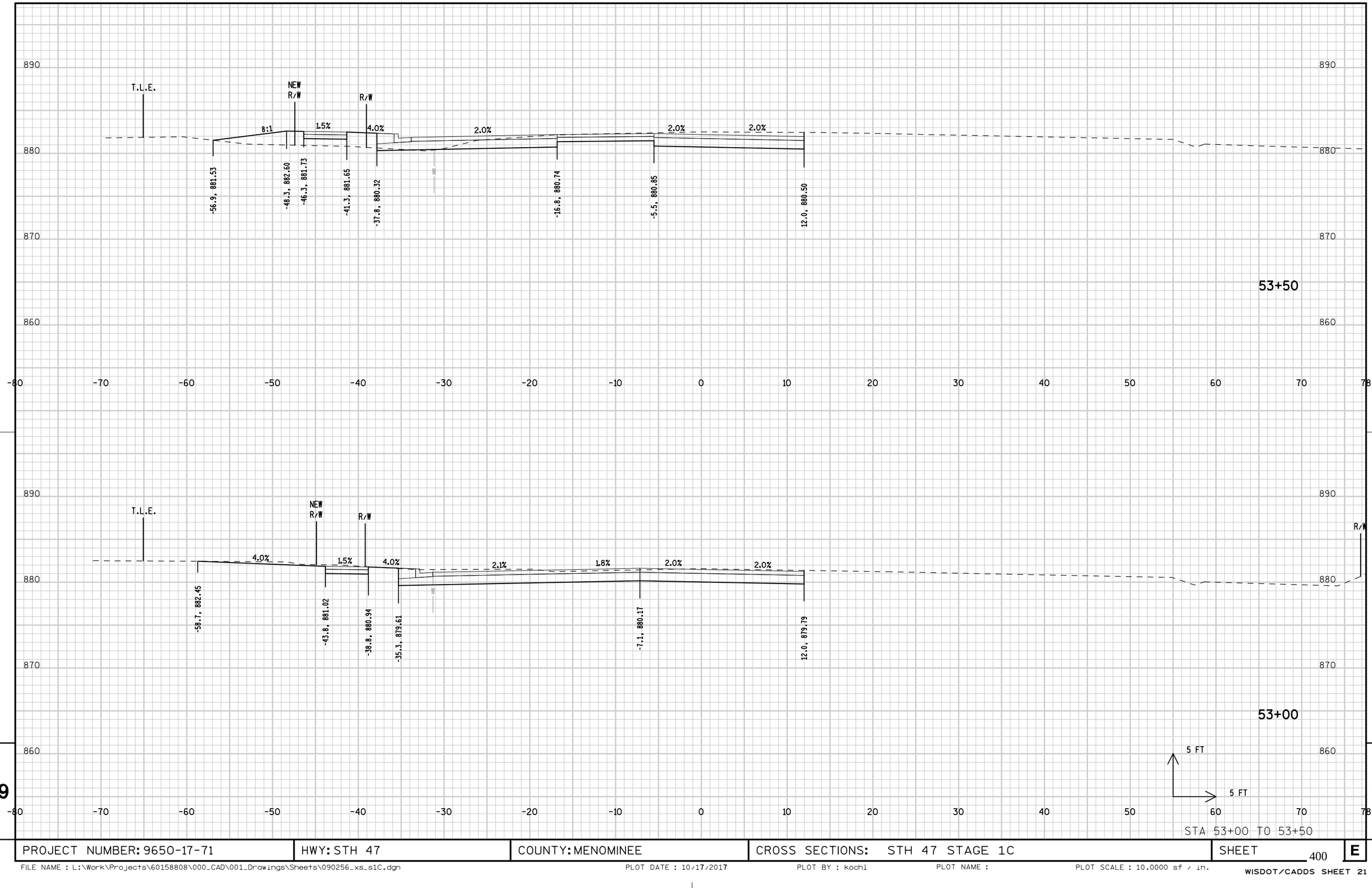


PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1C	SHEET 398	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090254_xs_s1C.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.



PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1C	SHEET 399	E

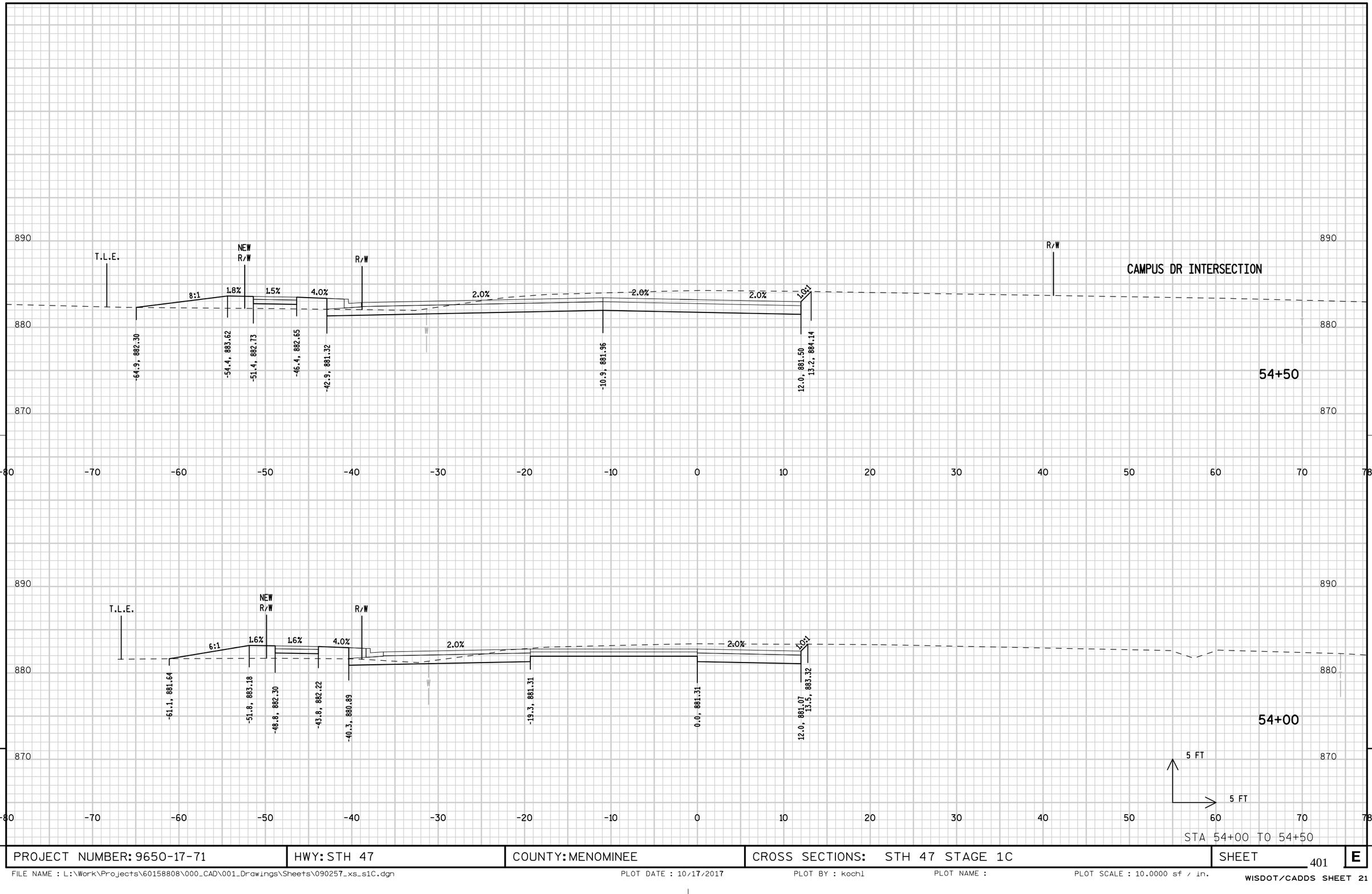


STA 53+00 TO 53+50

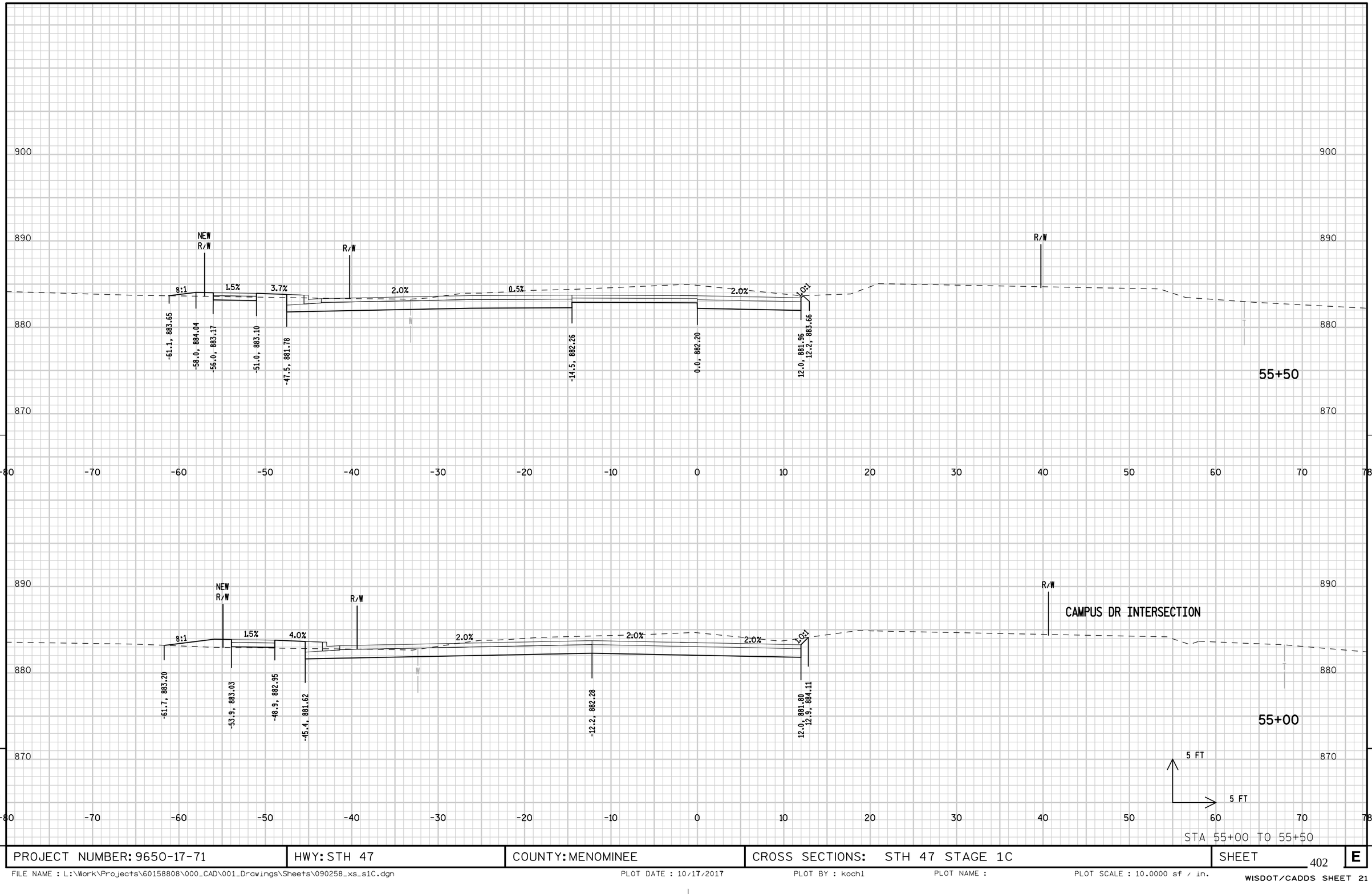
PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1C	SHEET 400	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090256_xs_s1C.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21



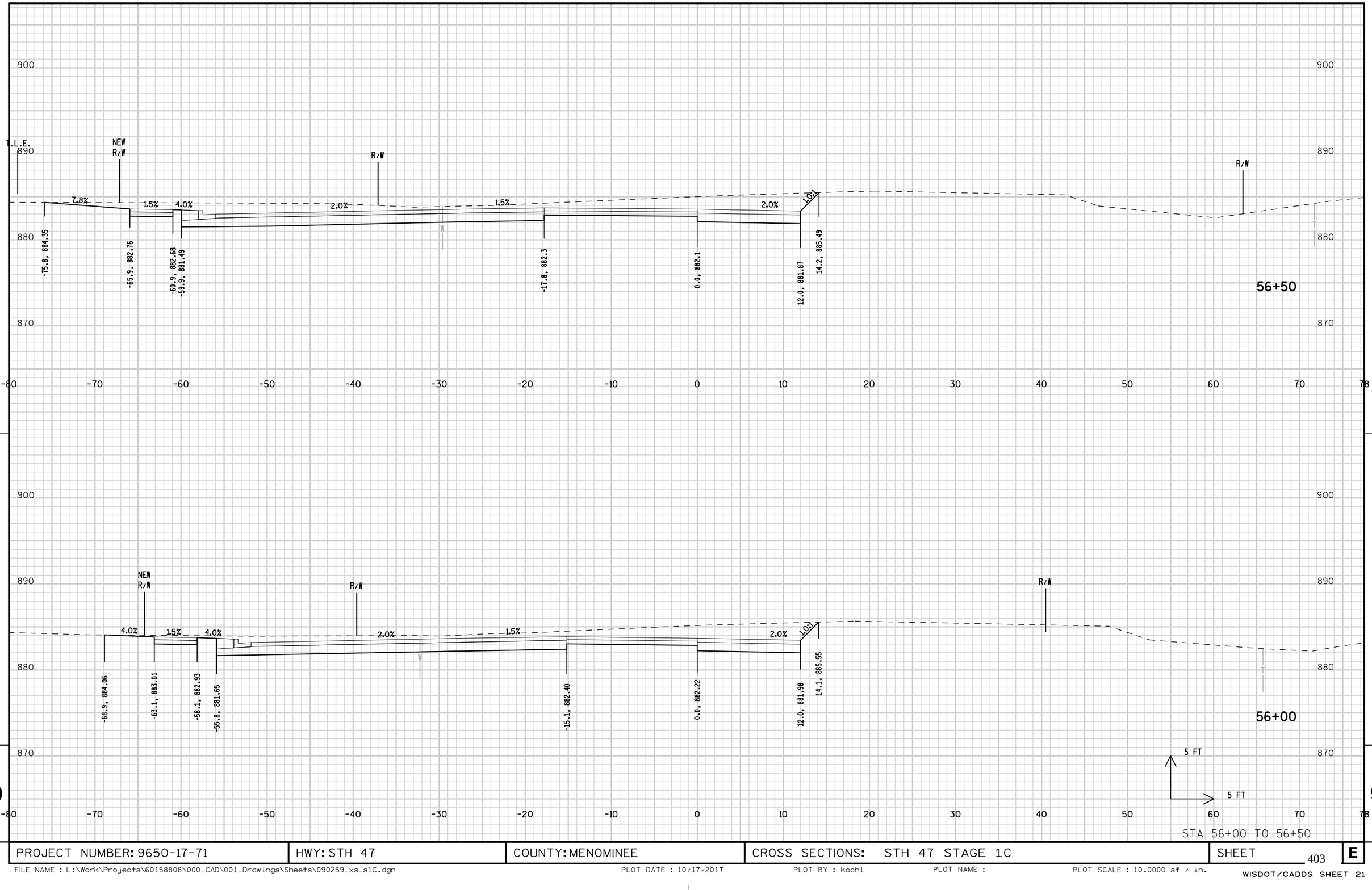
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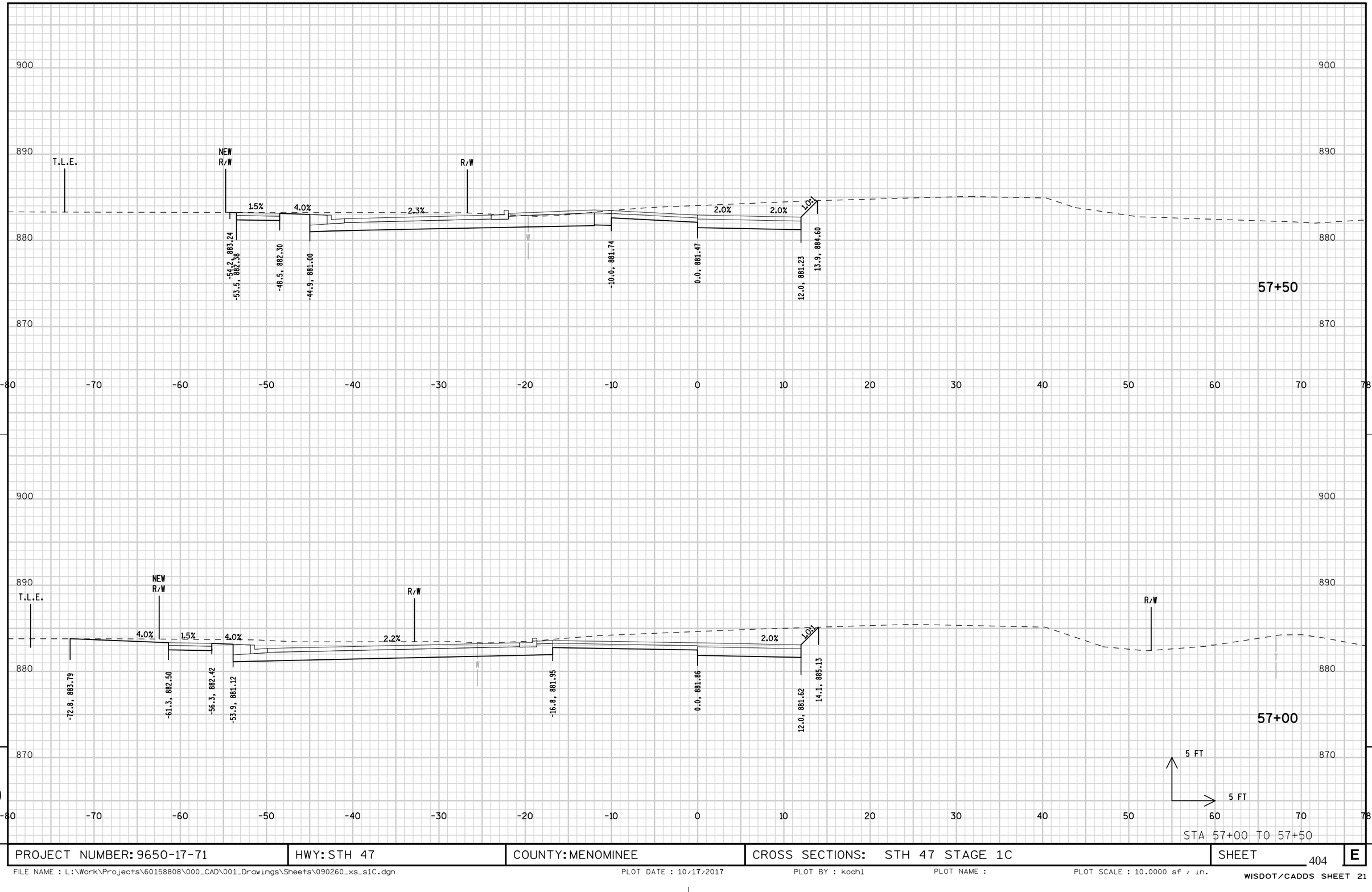
PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1C	SHEET 402	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090258_xs_s1C.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

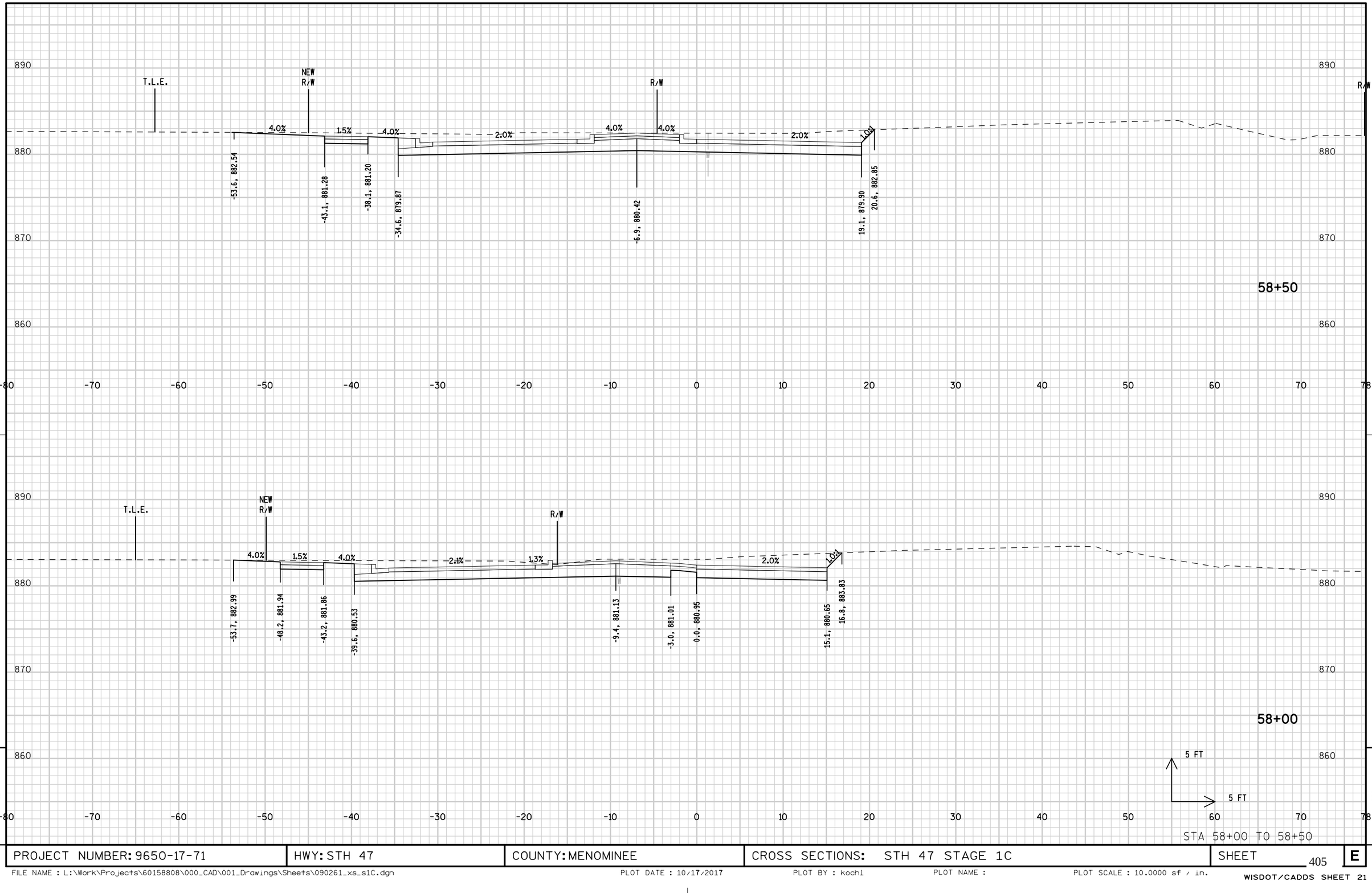
WISDOT/CADDS SHEET 21



PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1C	SHEET 403	E



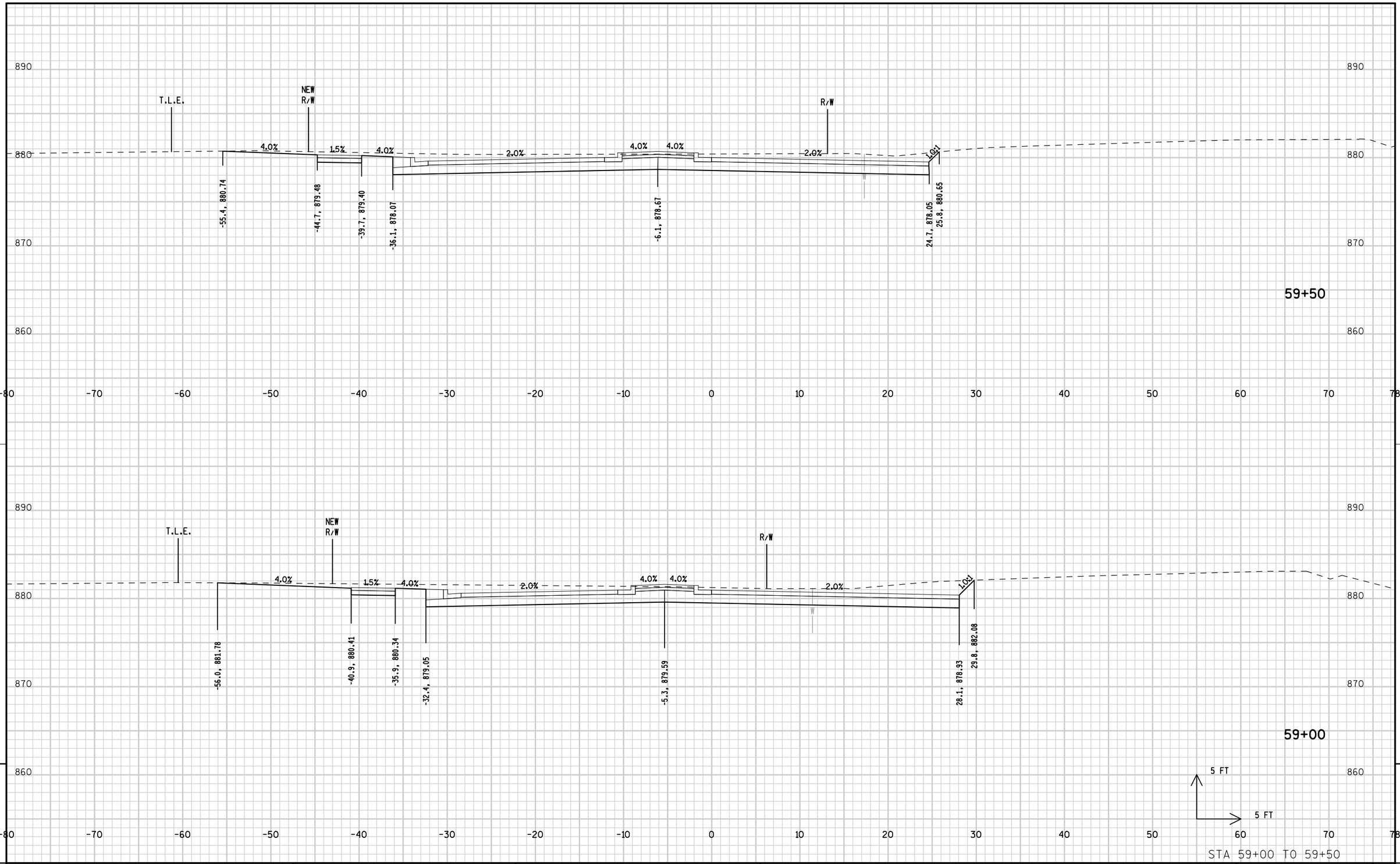
PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1C	SHEET 404	E



PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1C	SHEET 405	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090261_xs_s1C.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21



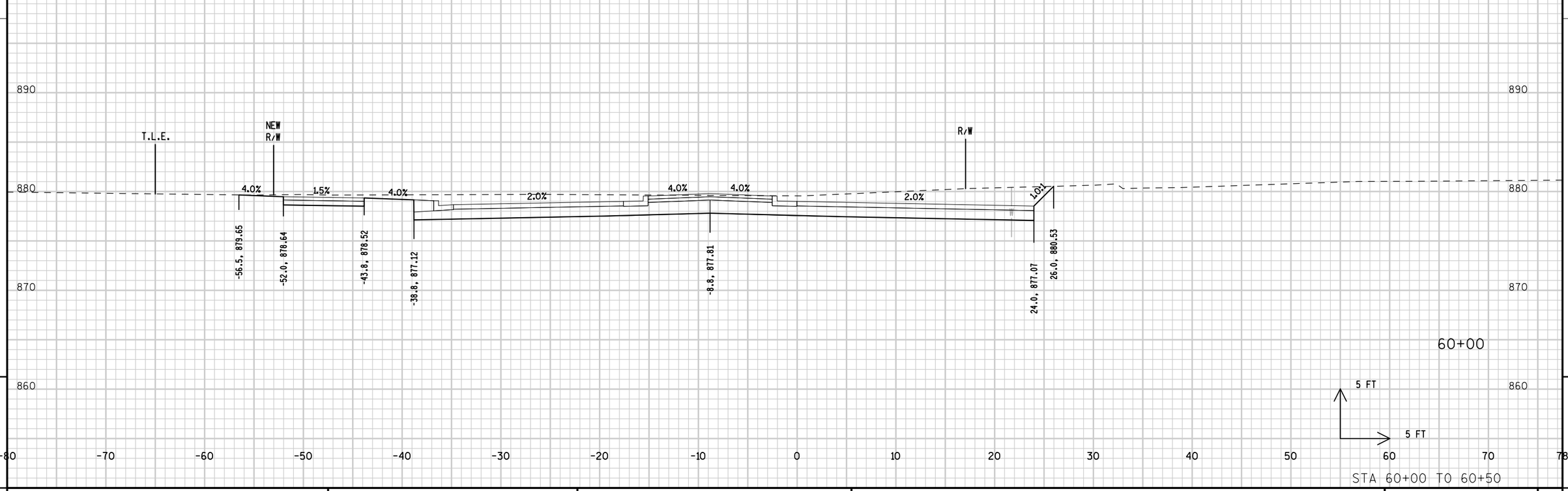
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STA 59+00 TO 59+50

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1C	SHEET 406	E

SEE ROUNDABOUT
CROSS SECTIONS



STA 60+00 TO 60+50

9

9

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1C	SHEET 407	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090263_xs_s1C.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21

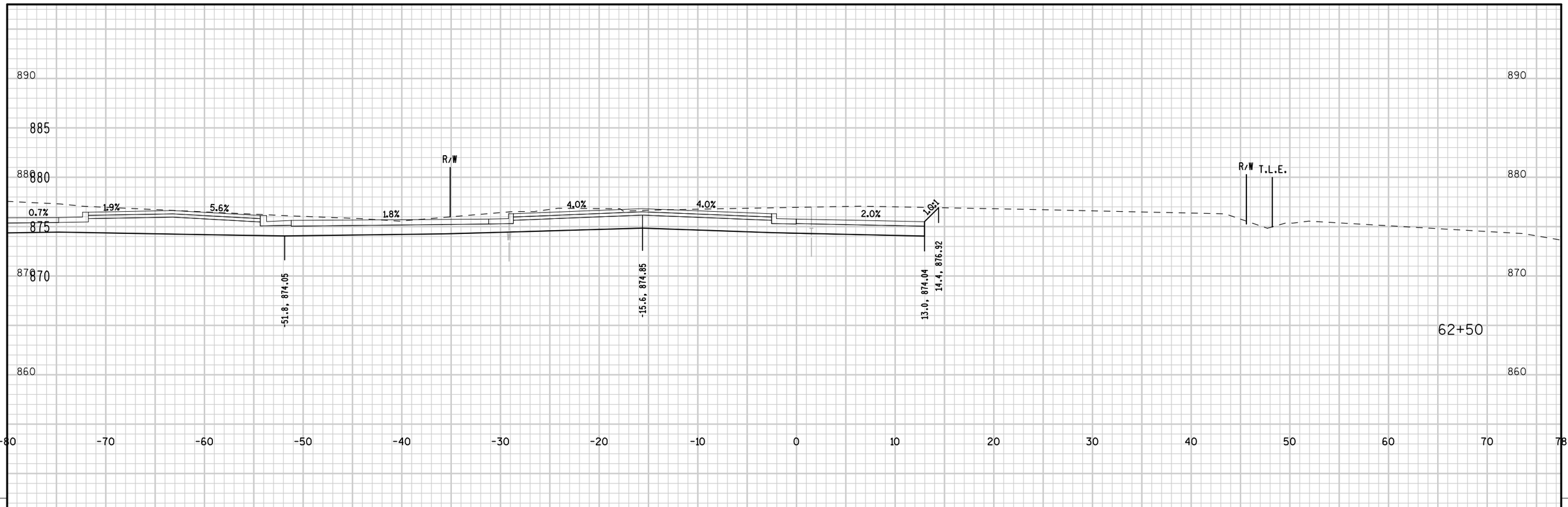
SEE ROUNDABOUT CROSS SECTIONS



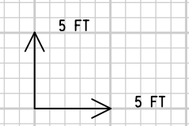
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9

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1C	SHEET 408	E



SEE ROUNDABOUT
CROSS SECTIONS



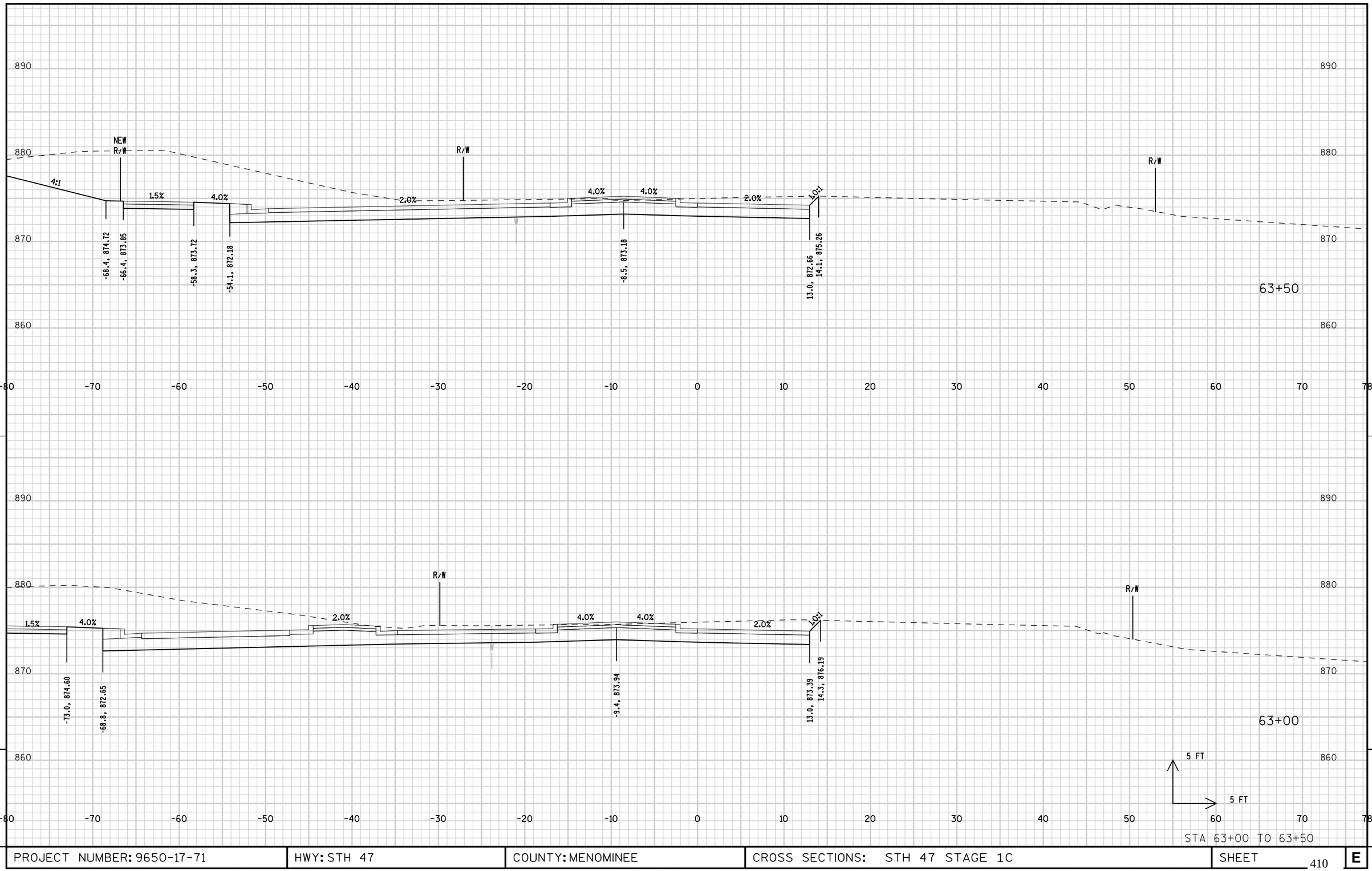
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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1C	SHEET 409	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090265_xs_s1C.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

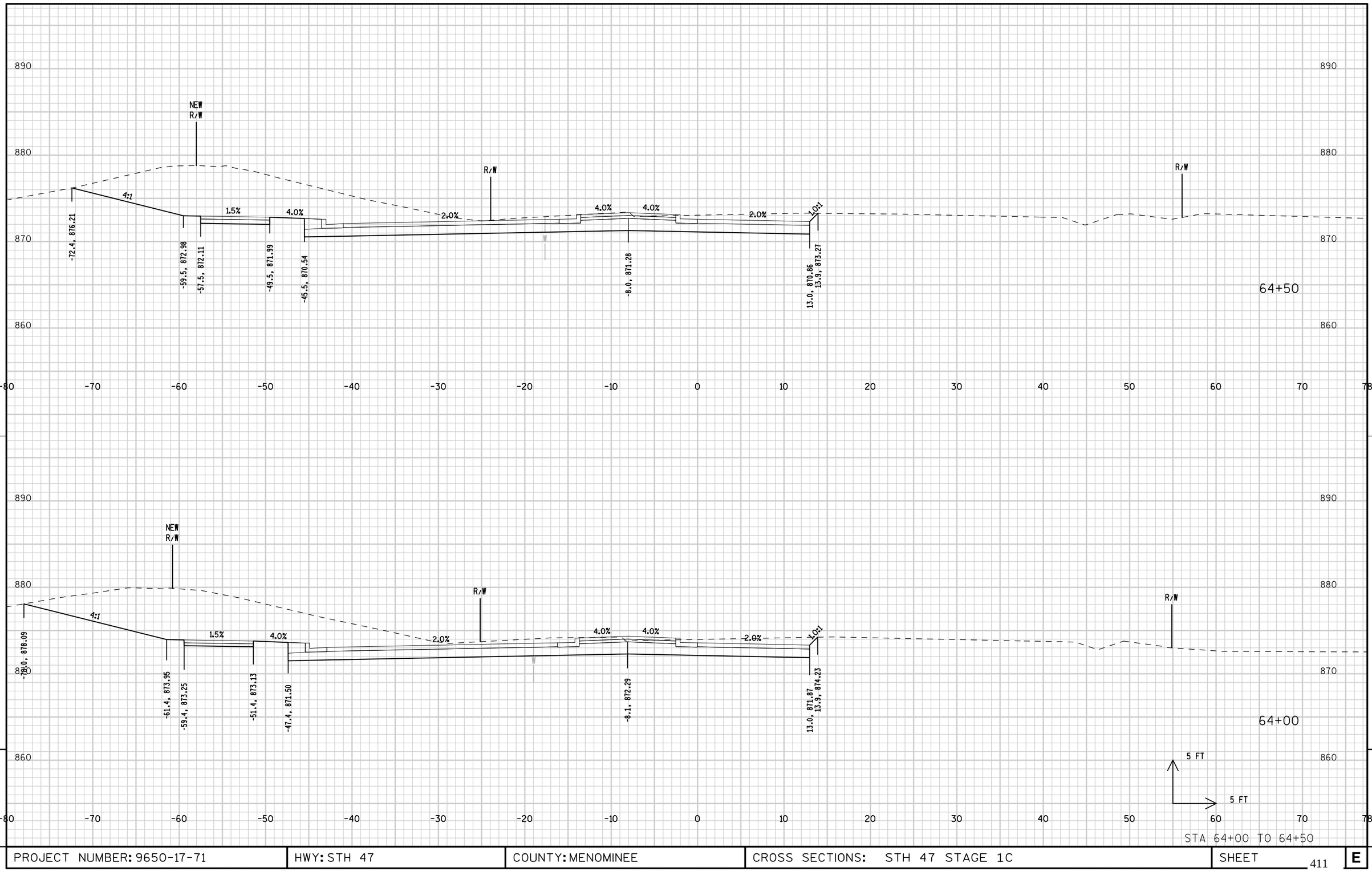
WISDOT/CADDS SHEET 21



PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1C	SHEET 410 E

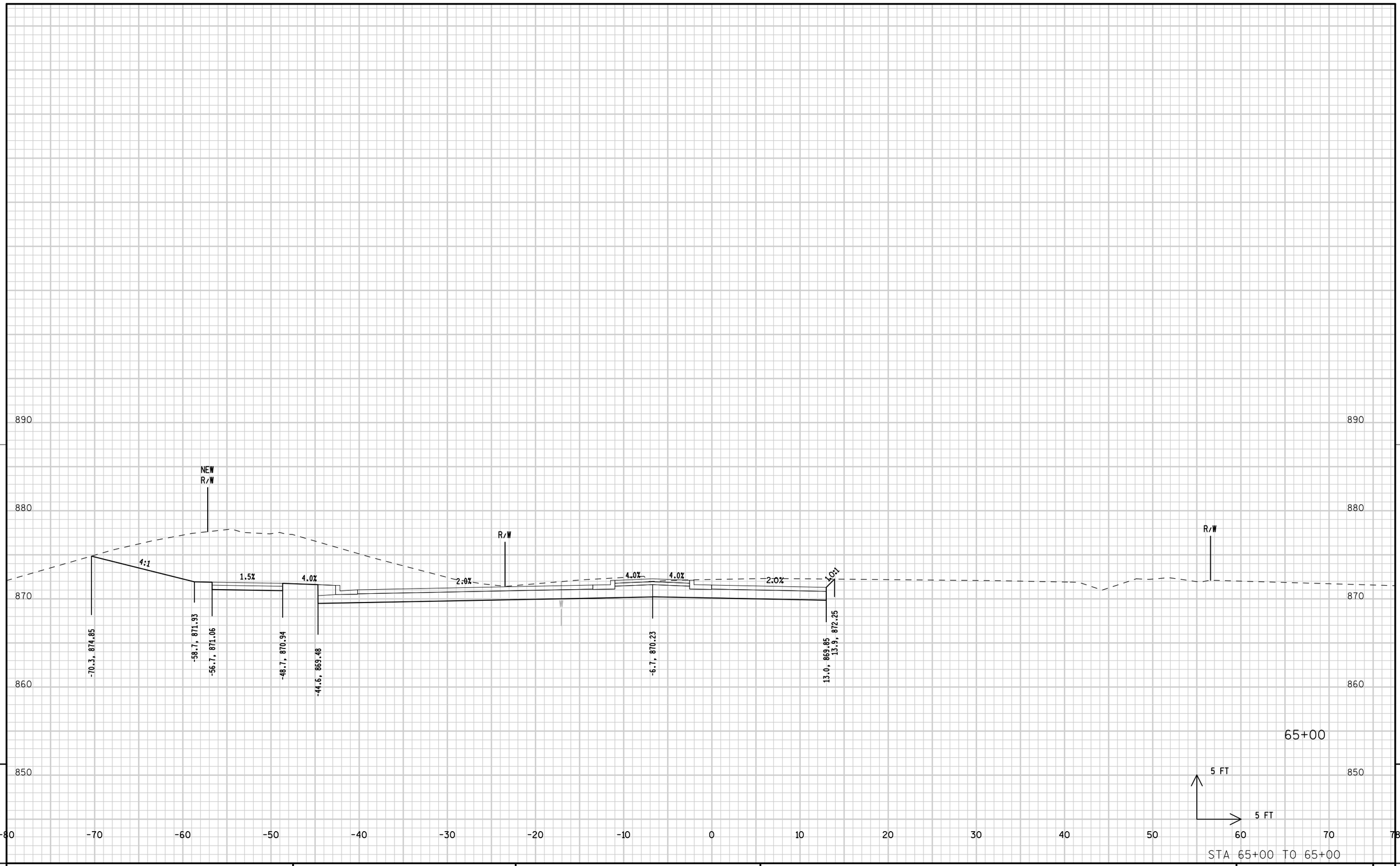
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WISDOT/CADDS SHEET 21



STA 64+00 TO 64+50

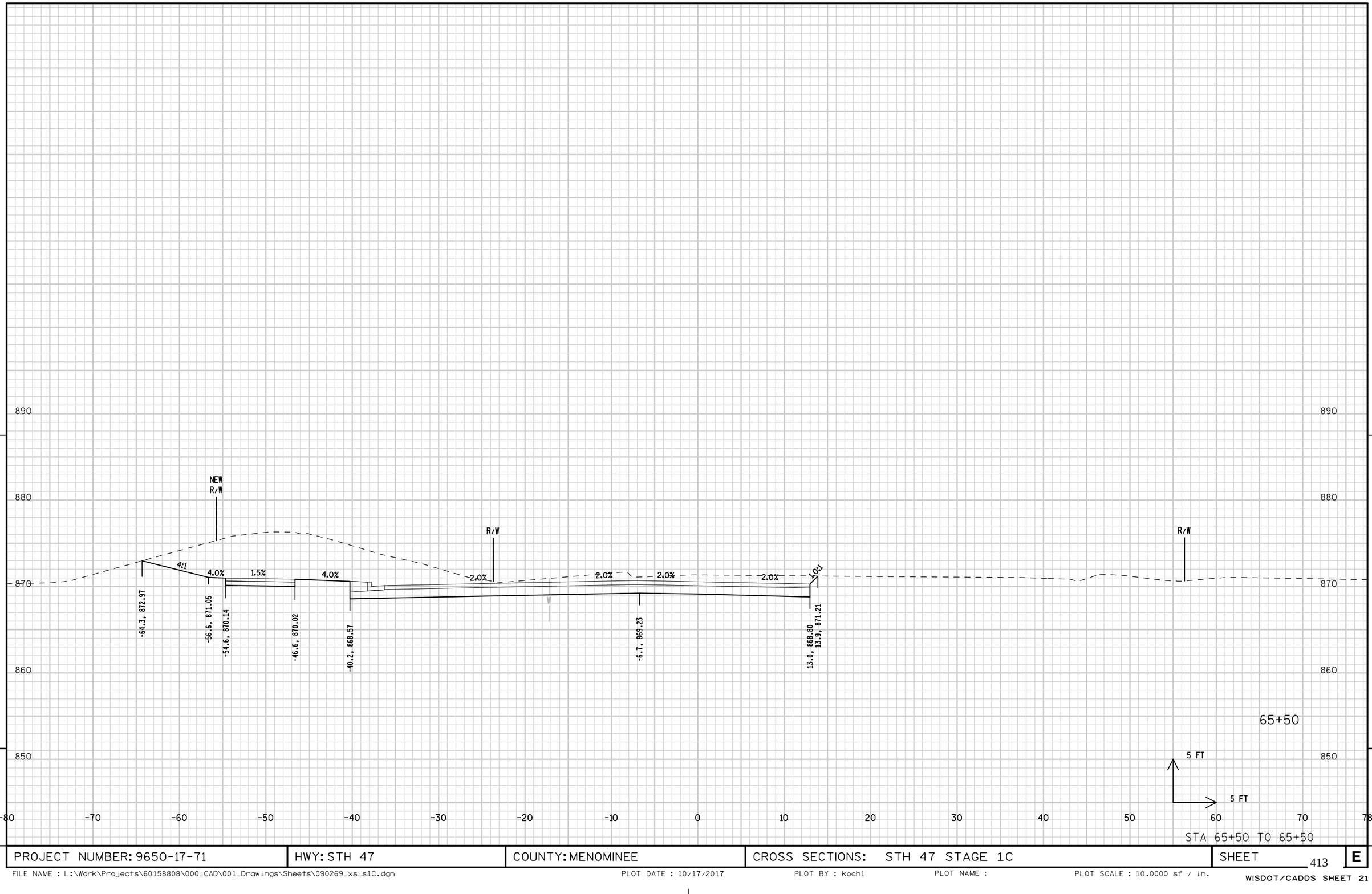
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9

9

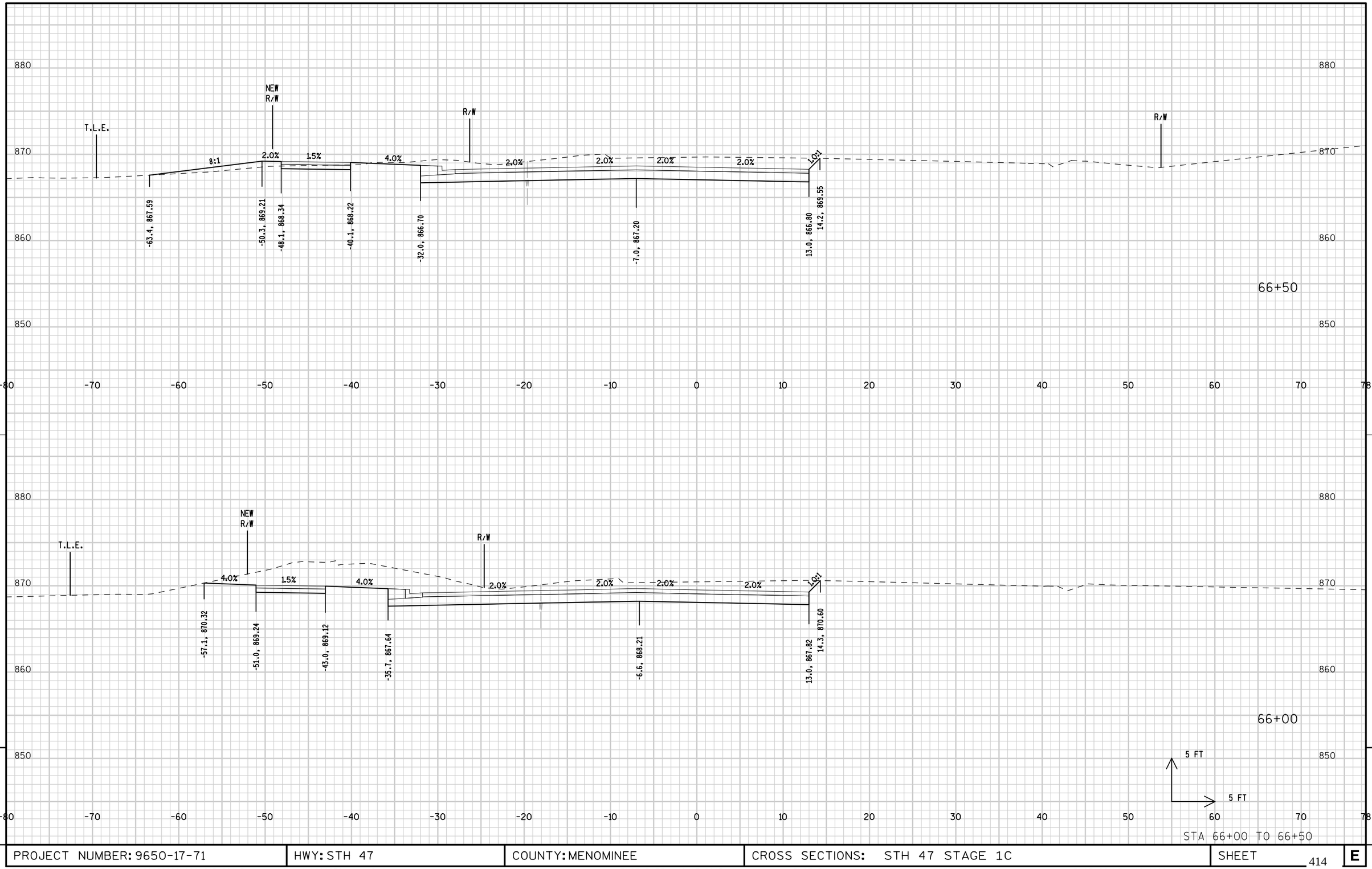
PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1C	SHEET 412	E



PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1C	SHEET 413	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090269_xs_s1C.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21

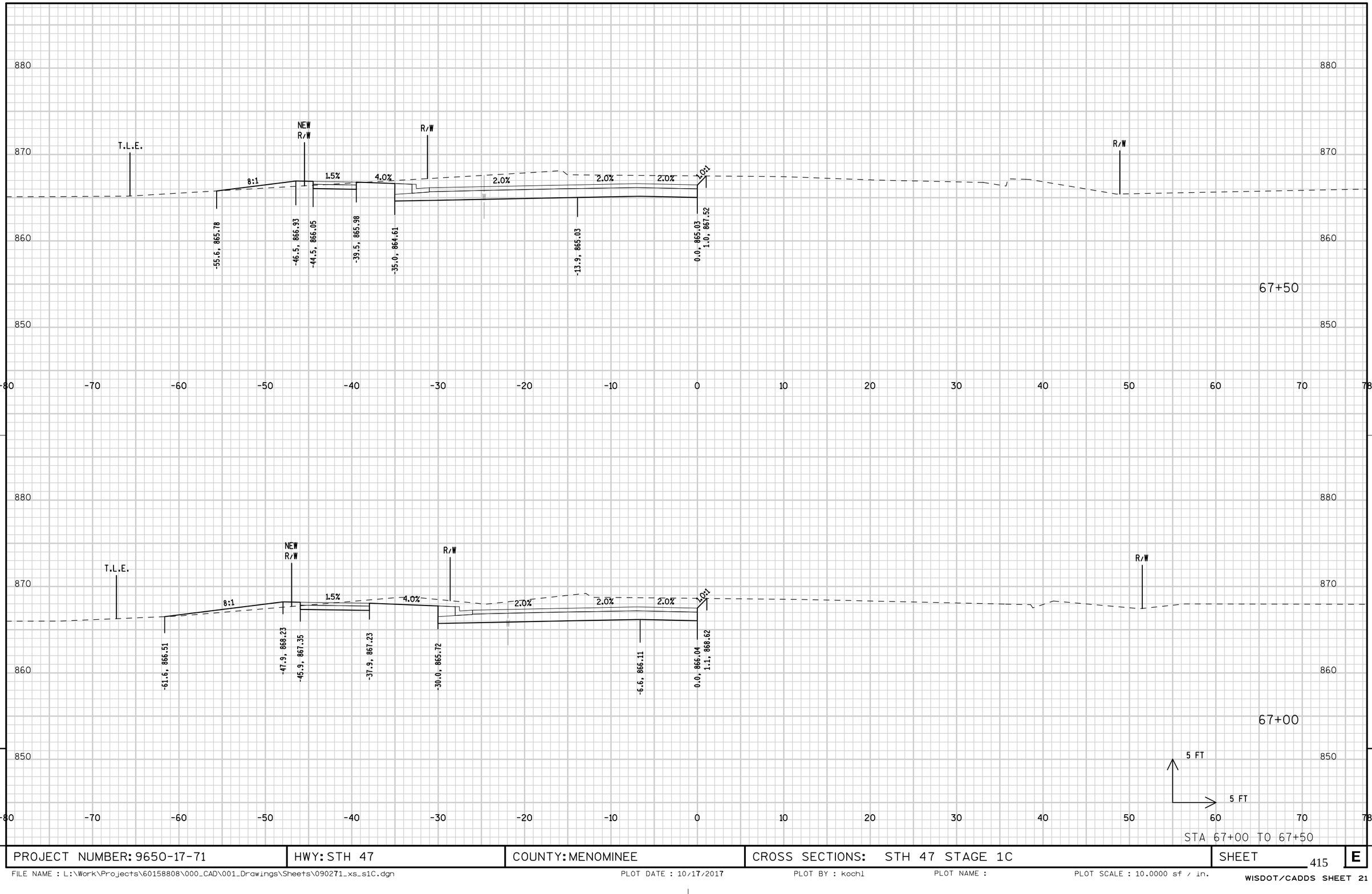


STA 66+00 TO 66+50

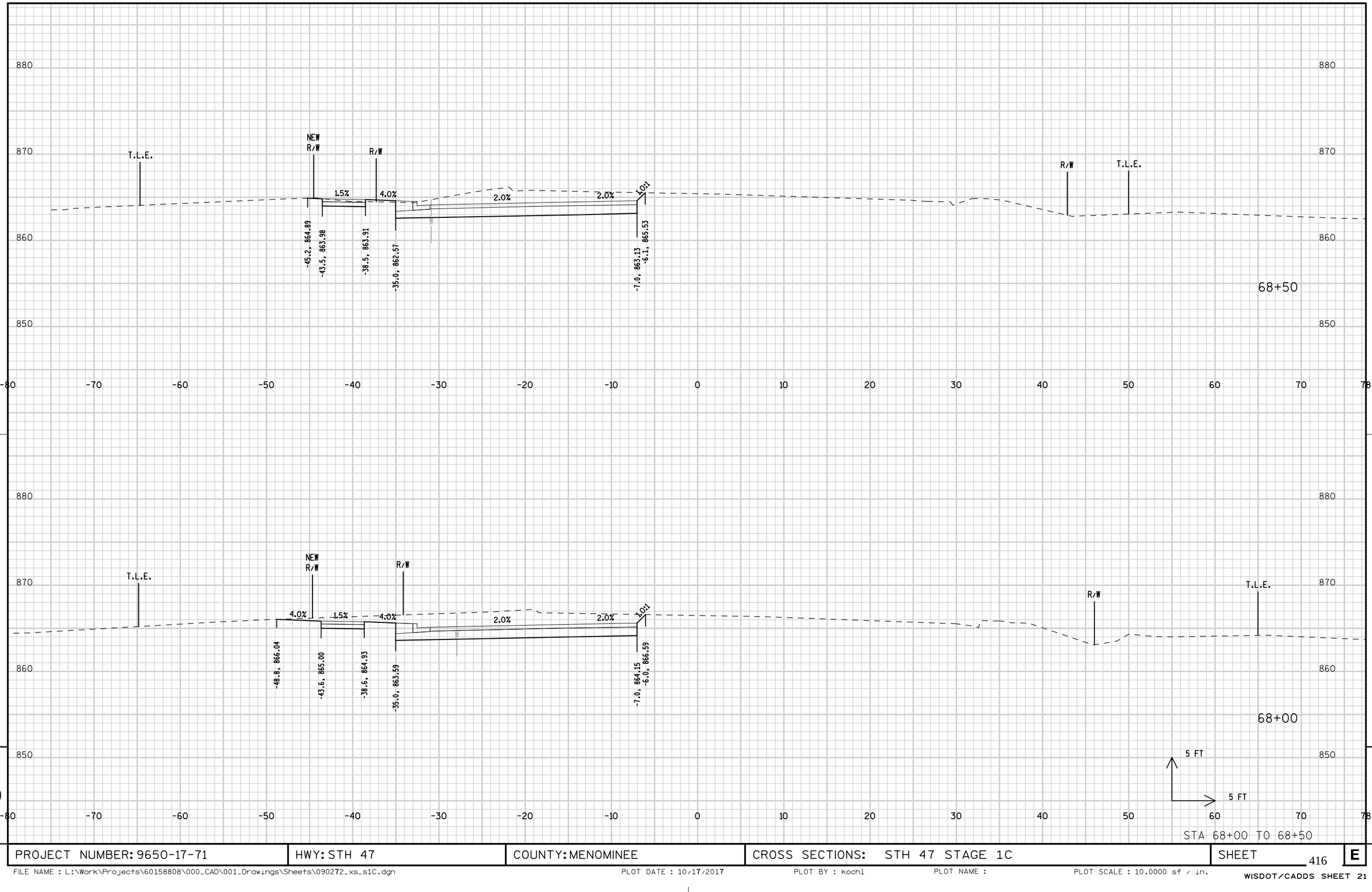
PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1C	SHEET 414	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090270_xs_s1C.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21



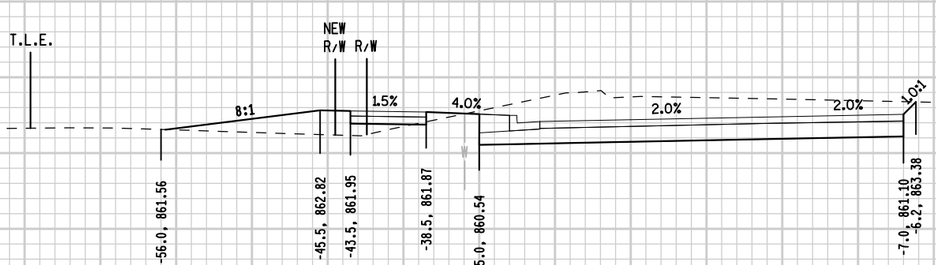
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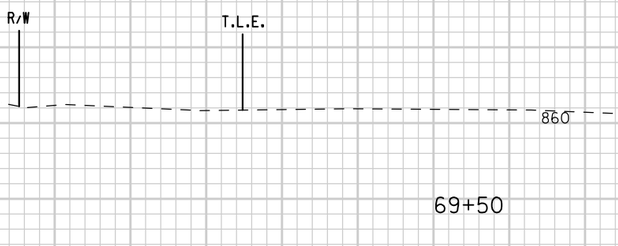


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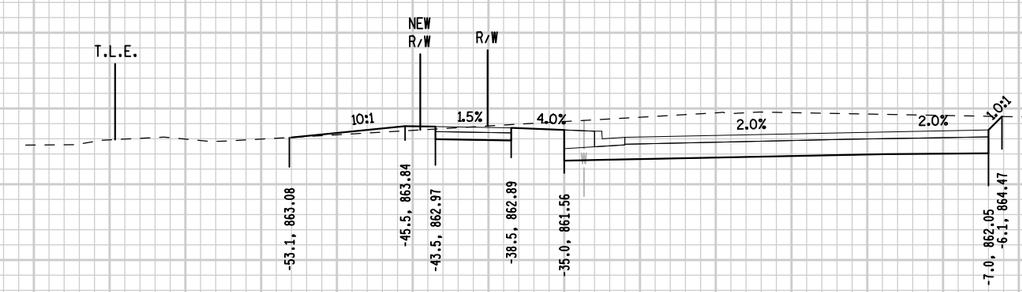
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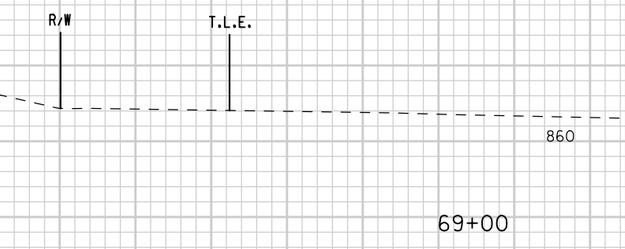
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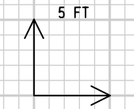


69+50





69+00

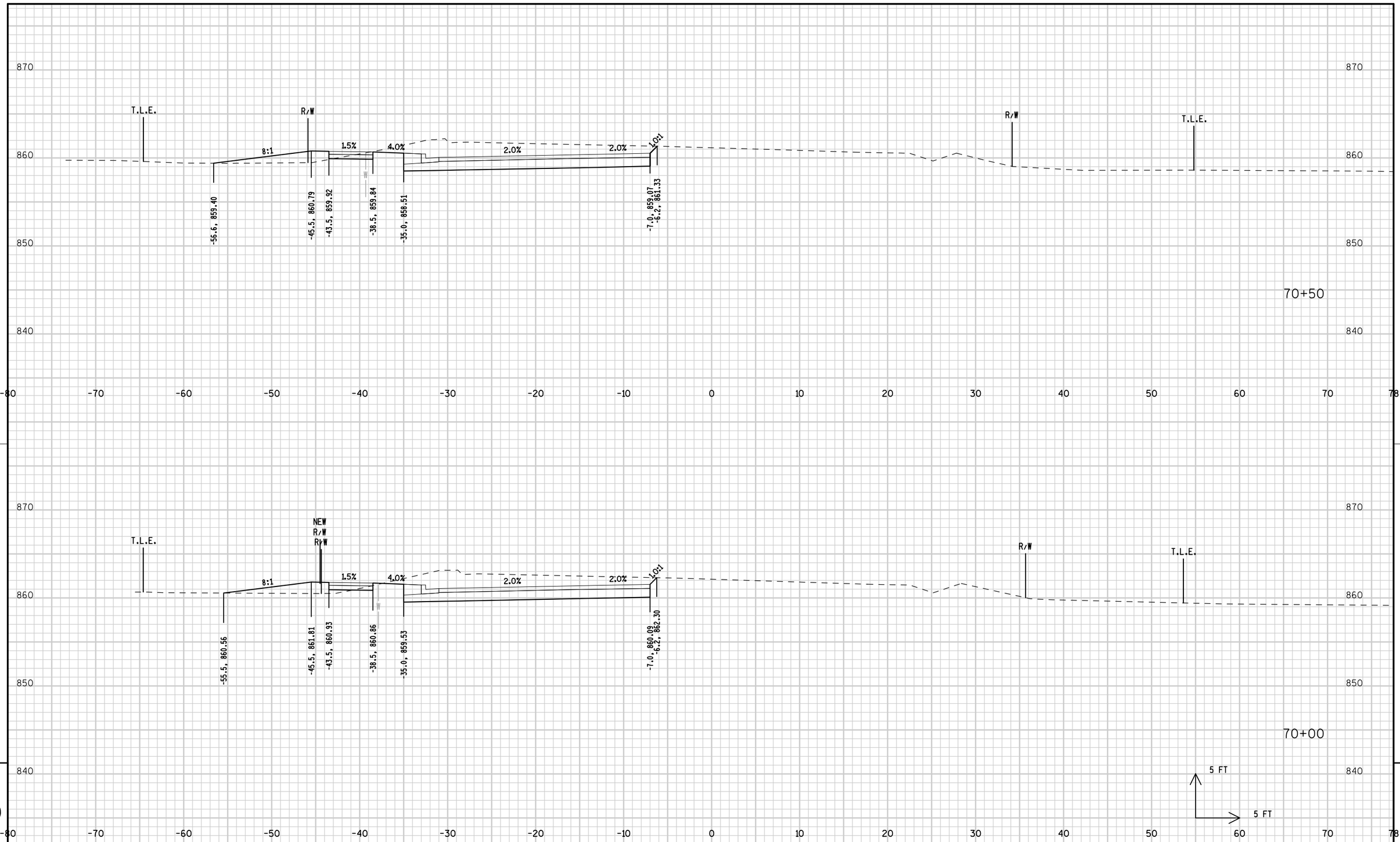


STA 69+00 TO 69+50

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1C	SHEET 417	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090273_xs_s1C.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21



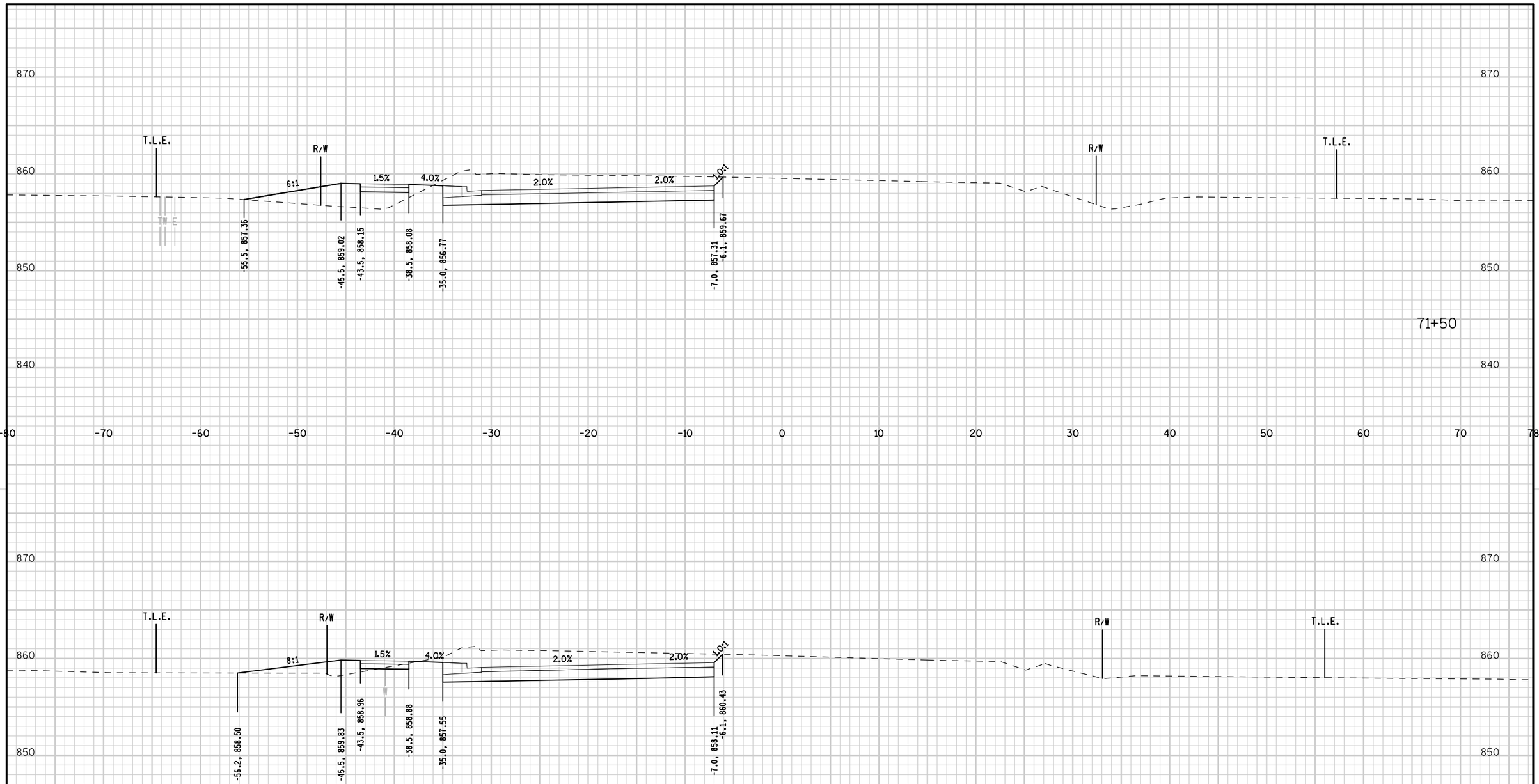
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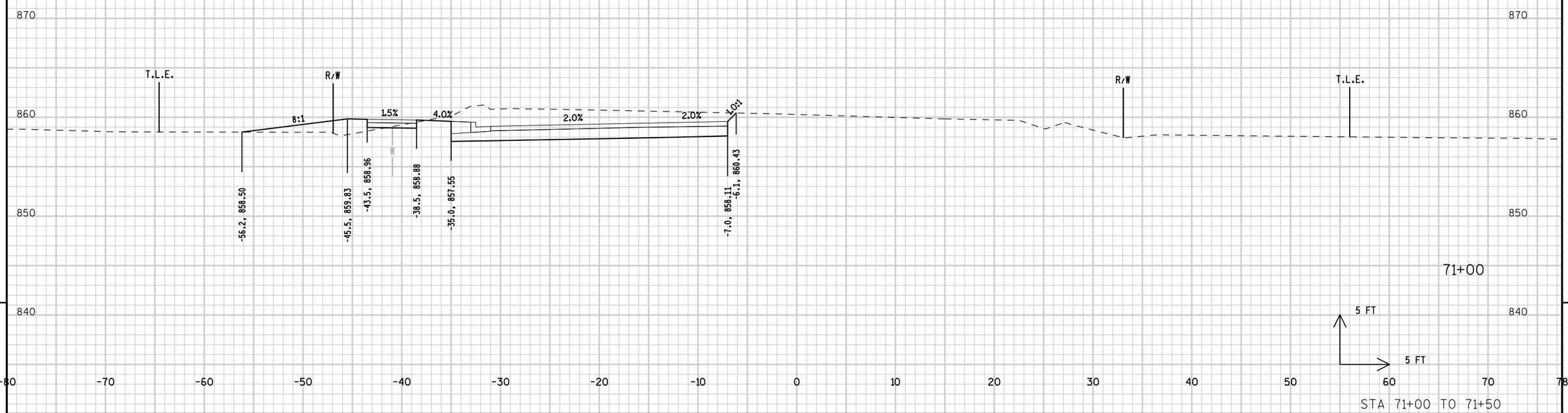
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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1C	SHEET 418	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090274_xs_s1C.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21





STA 71+00 TO 71+50

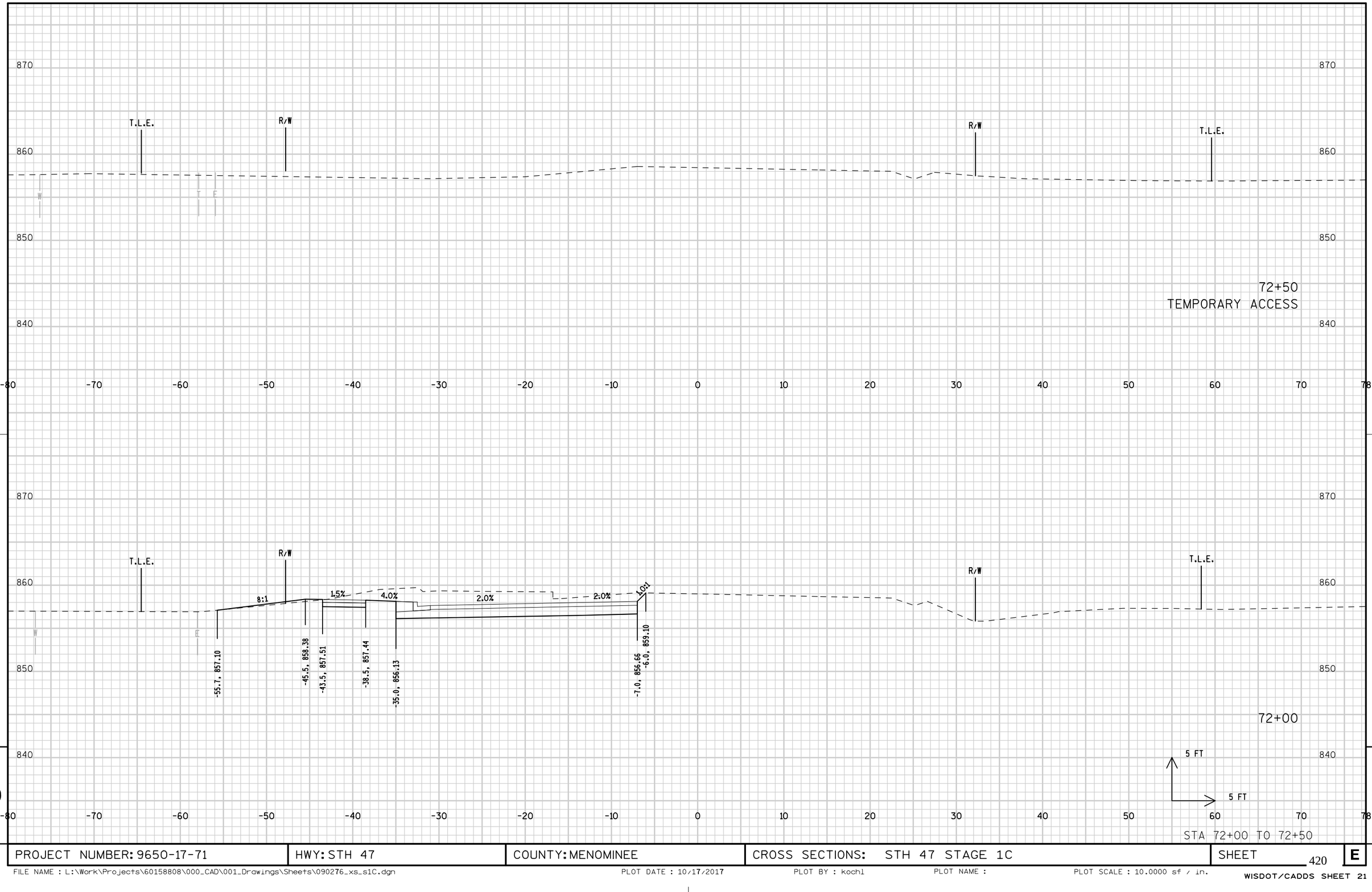
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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1C	SHEET 419	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090275_xs_s1C.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21



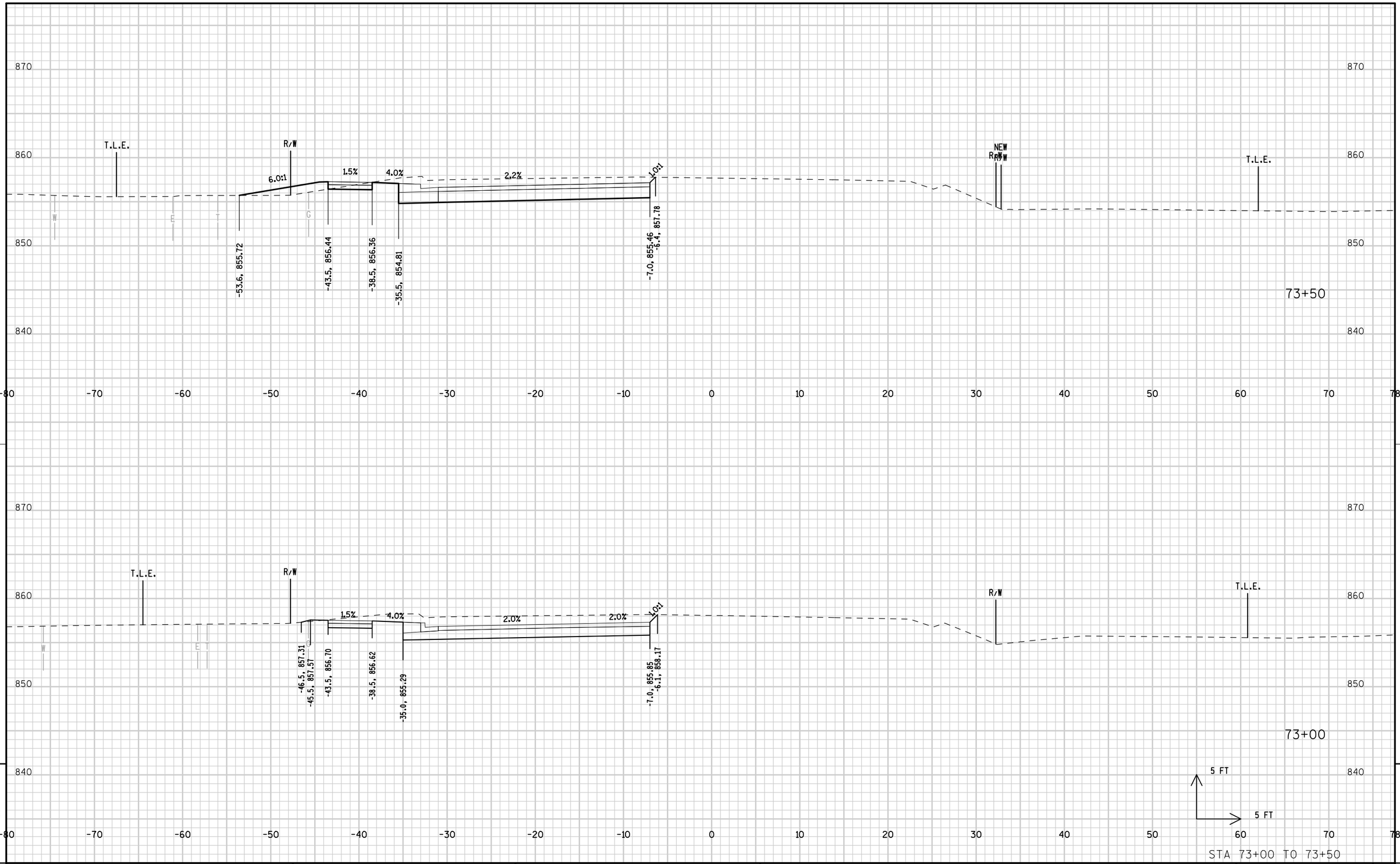
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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1C	SHEET 420	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090276_xs_s1C.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21

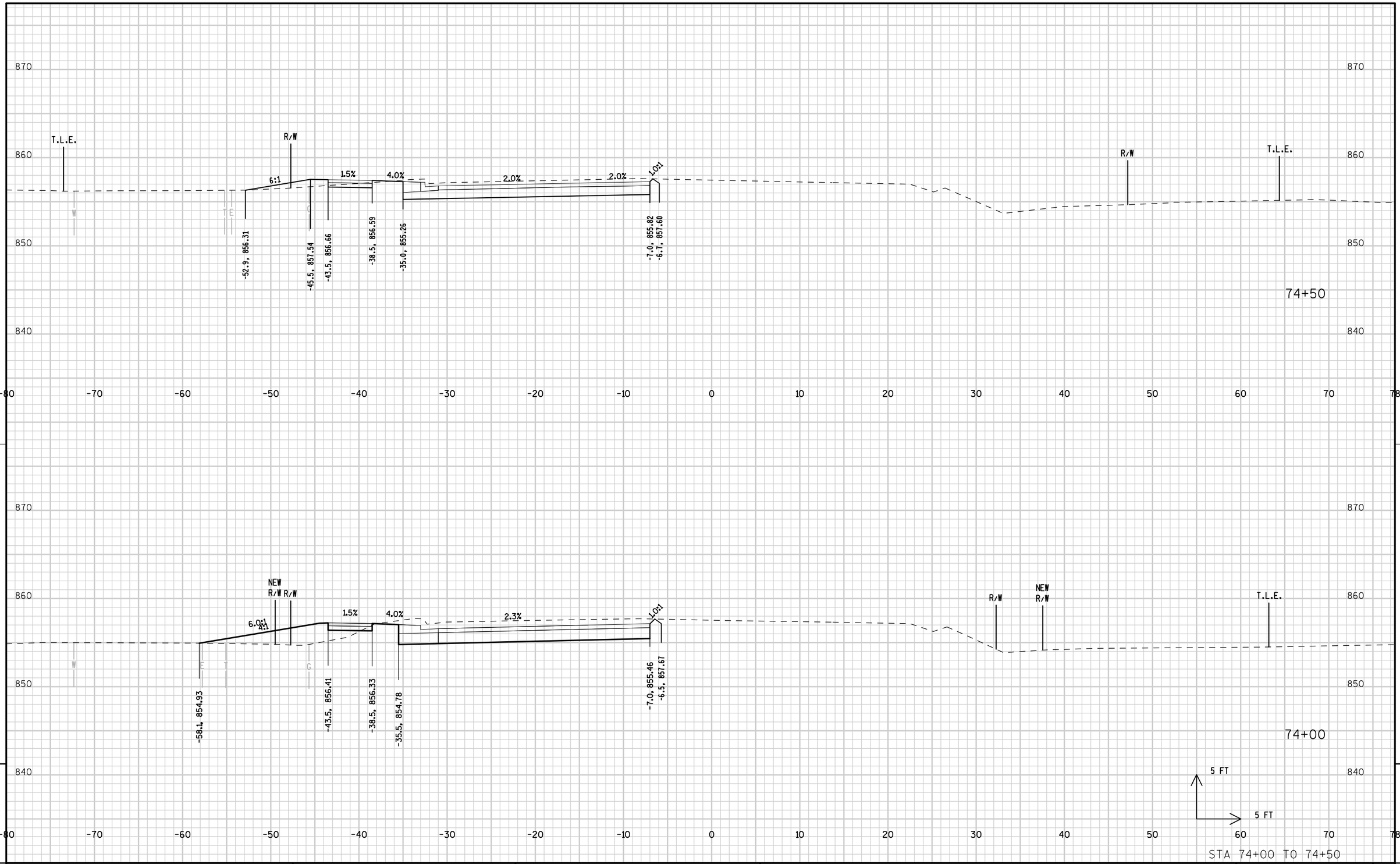


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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1C	SHEET 421	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090277_xs_s1C.dgn
PLOT DATE : 10/17/2017
PLOT BY : kochl
PLOT NAME :
PLOT SCALE : 10.0000 sf / in.
WISDOT/CADDS SHEET 21

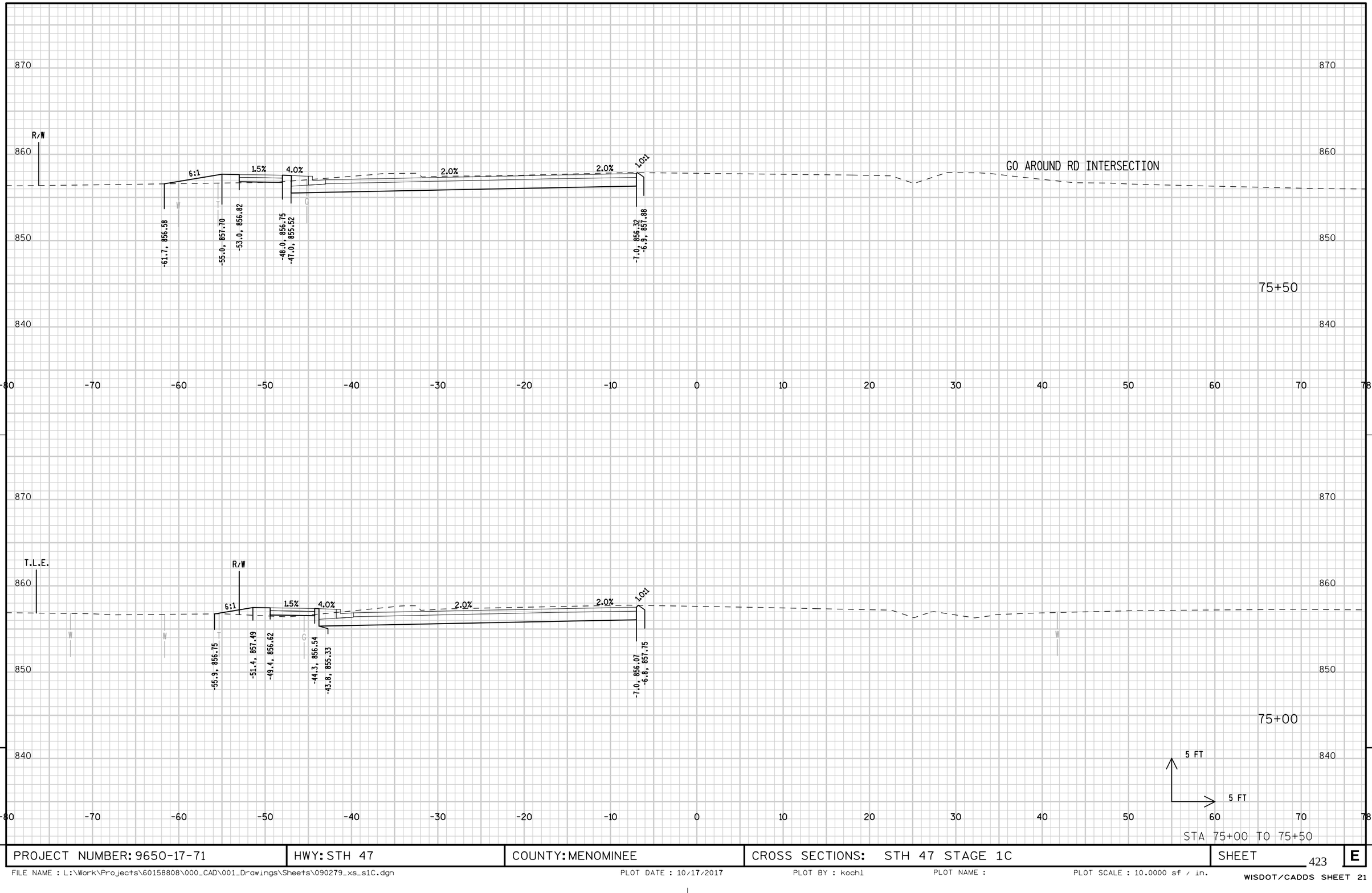


STA 74+00 TO 74+50

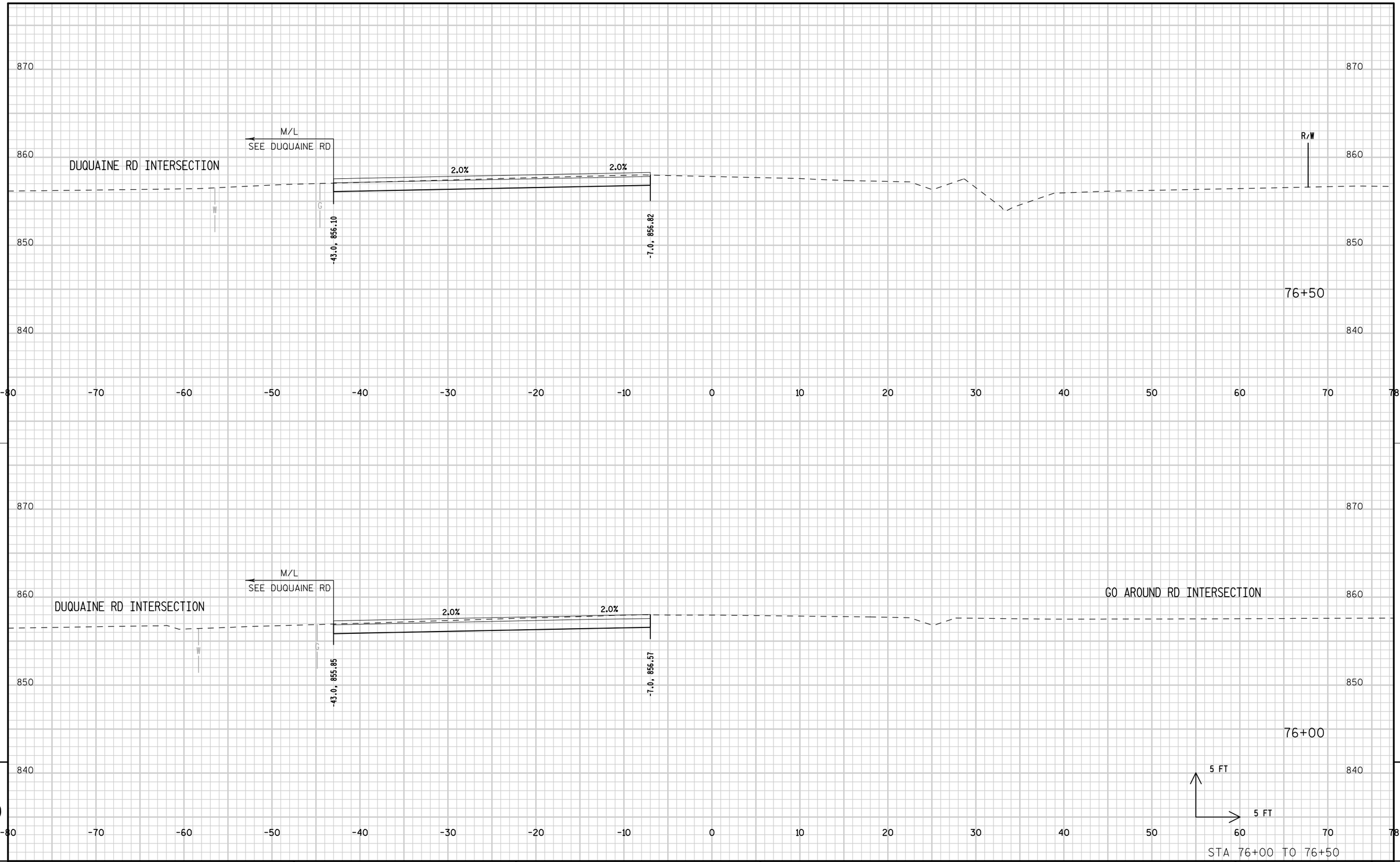
PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1C	SHEET 422	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090278_xs_s1C.dgn PLOT DATE : 10/17/2017 PLOT BY : Kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21



PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1C	SHEET 423 E

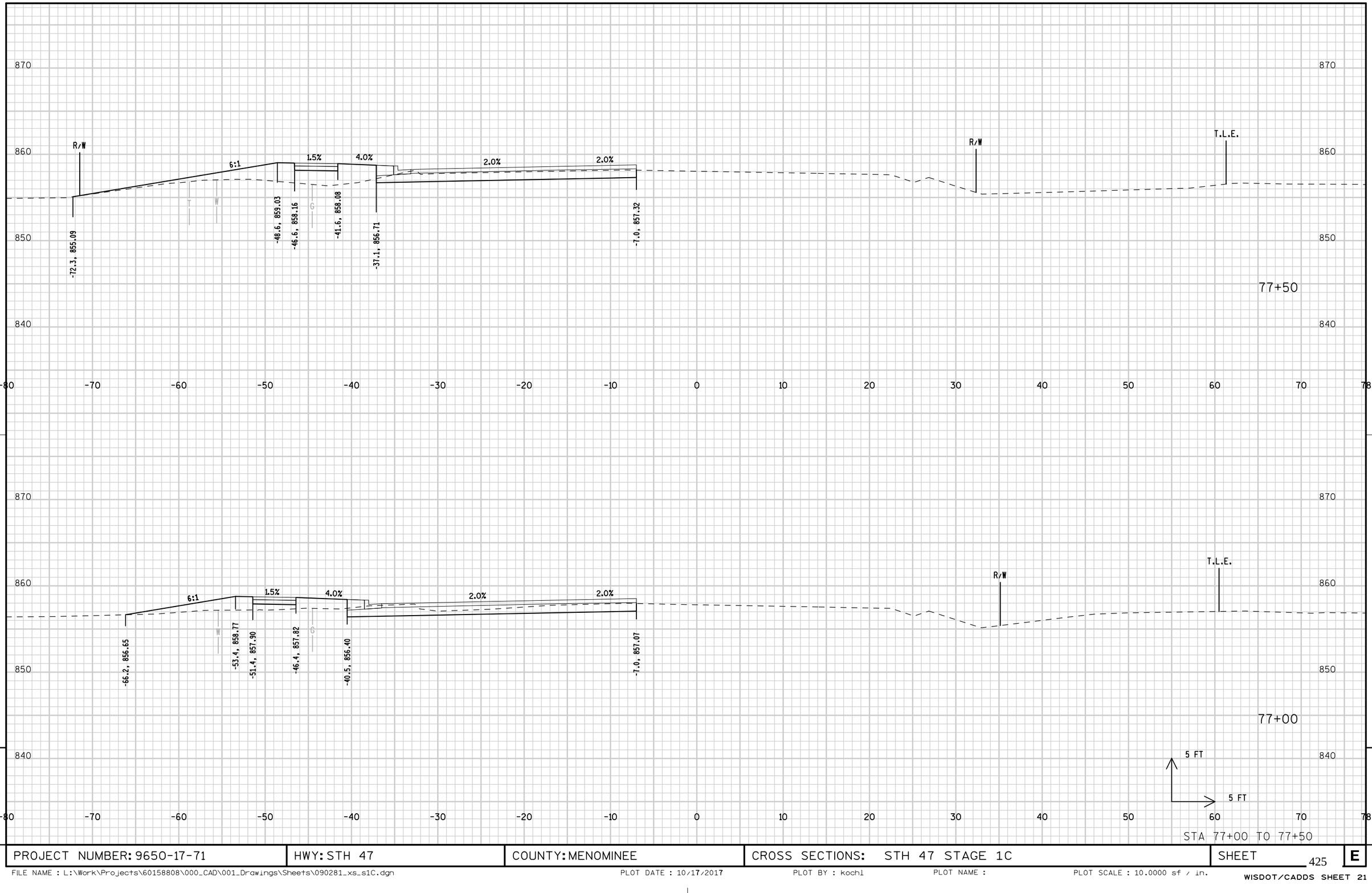


STA 76+00 TO 76+50

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1C	SHEET 424	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090280_xs_s1C.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

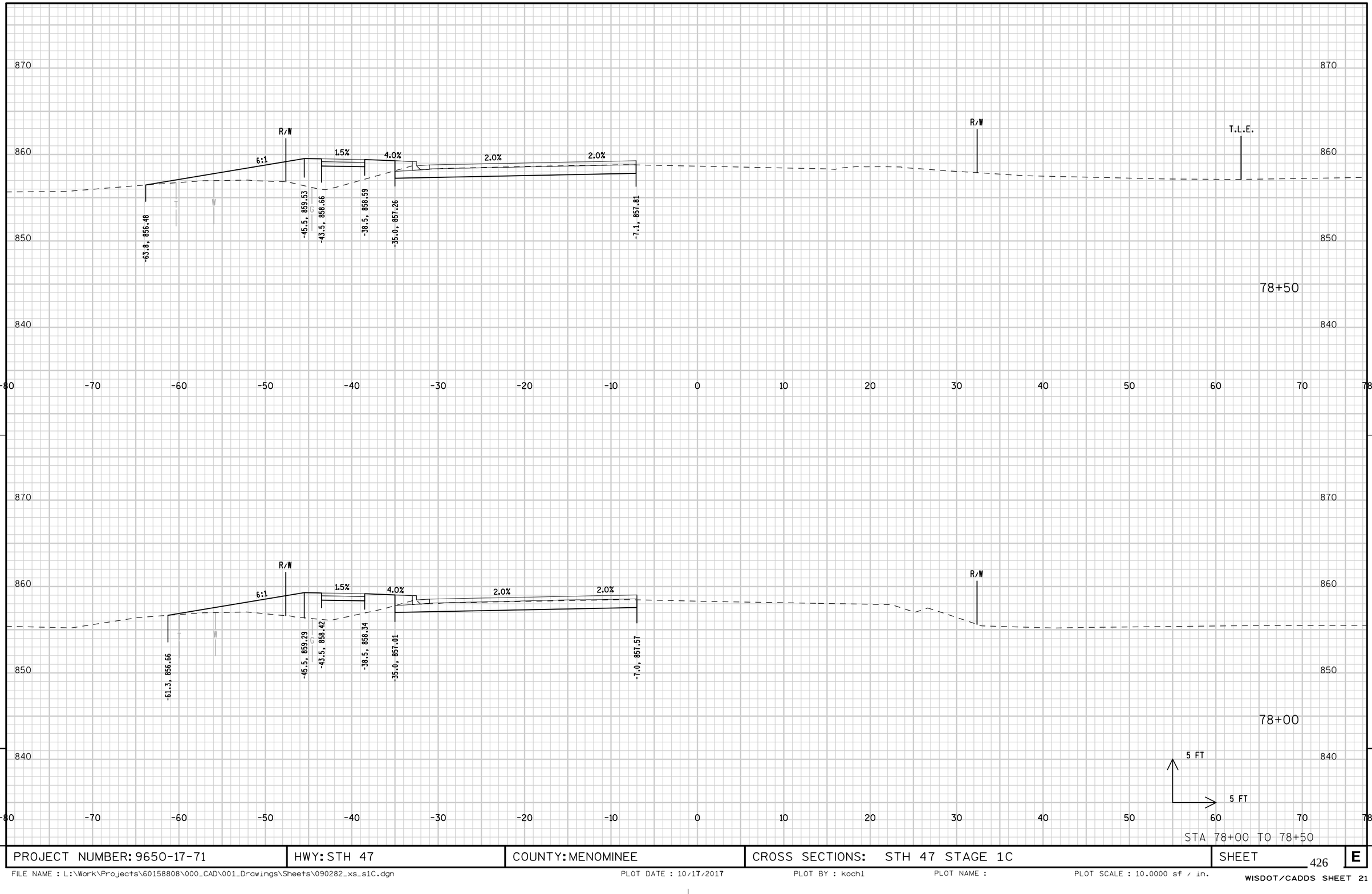
WISDOT/CADDS SHEET 21



PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1C	SHEET 425	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090281_xs_s1C.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21

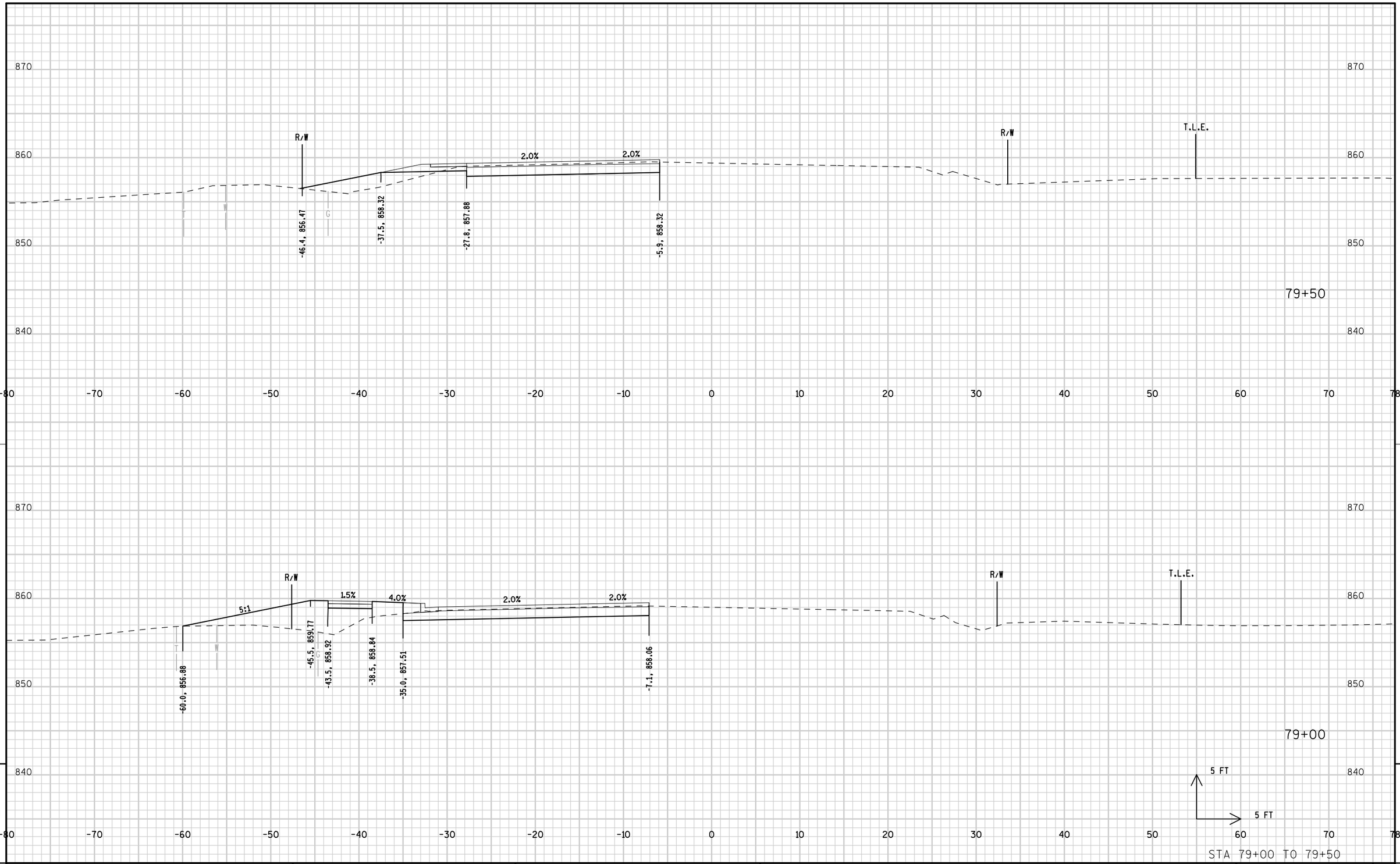


STA 78+00 TO 78+50

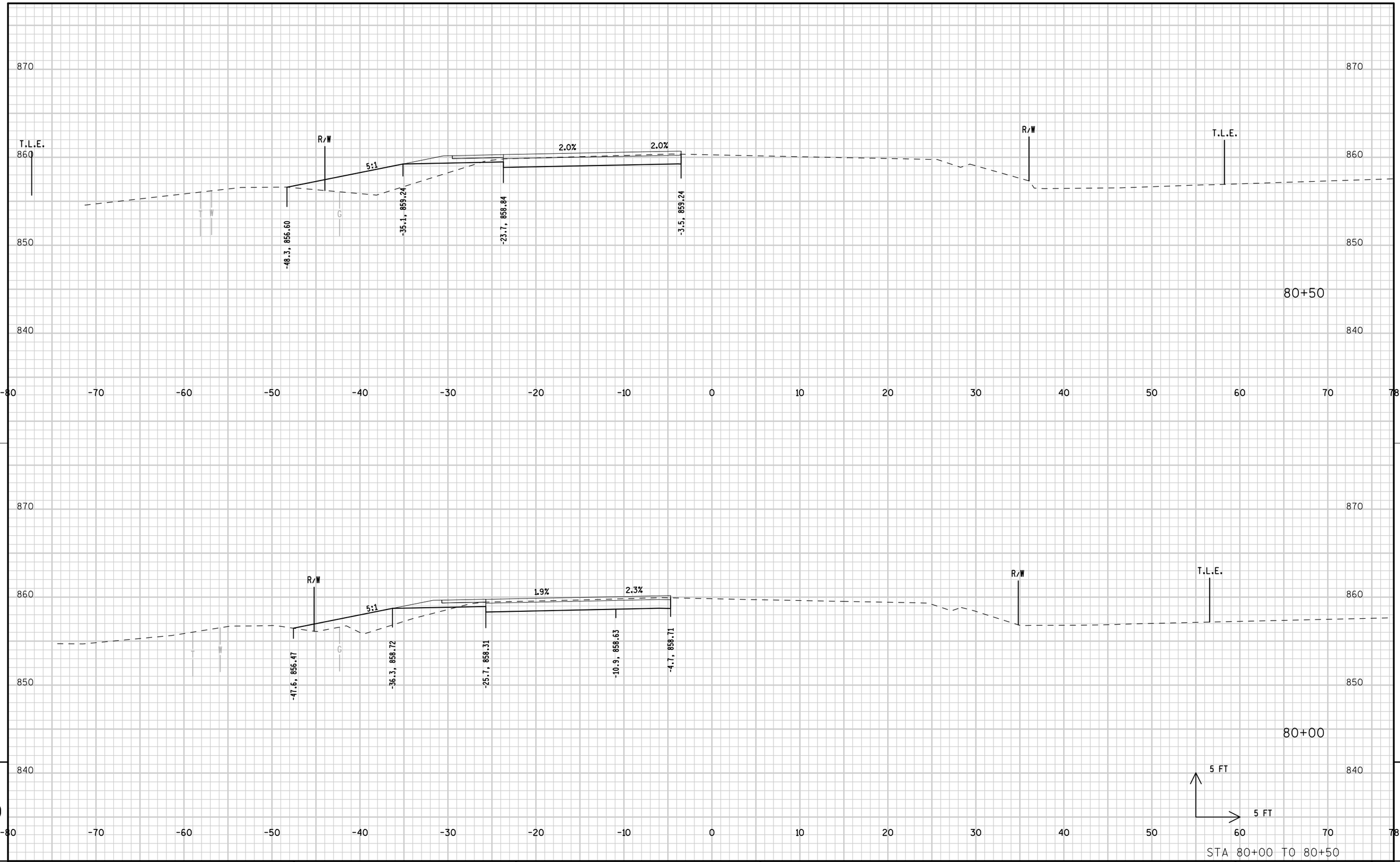
PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1C	SHEET 426	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090282_xs_s1C.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

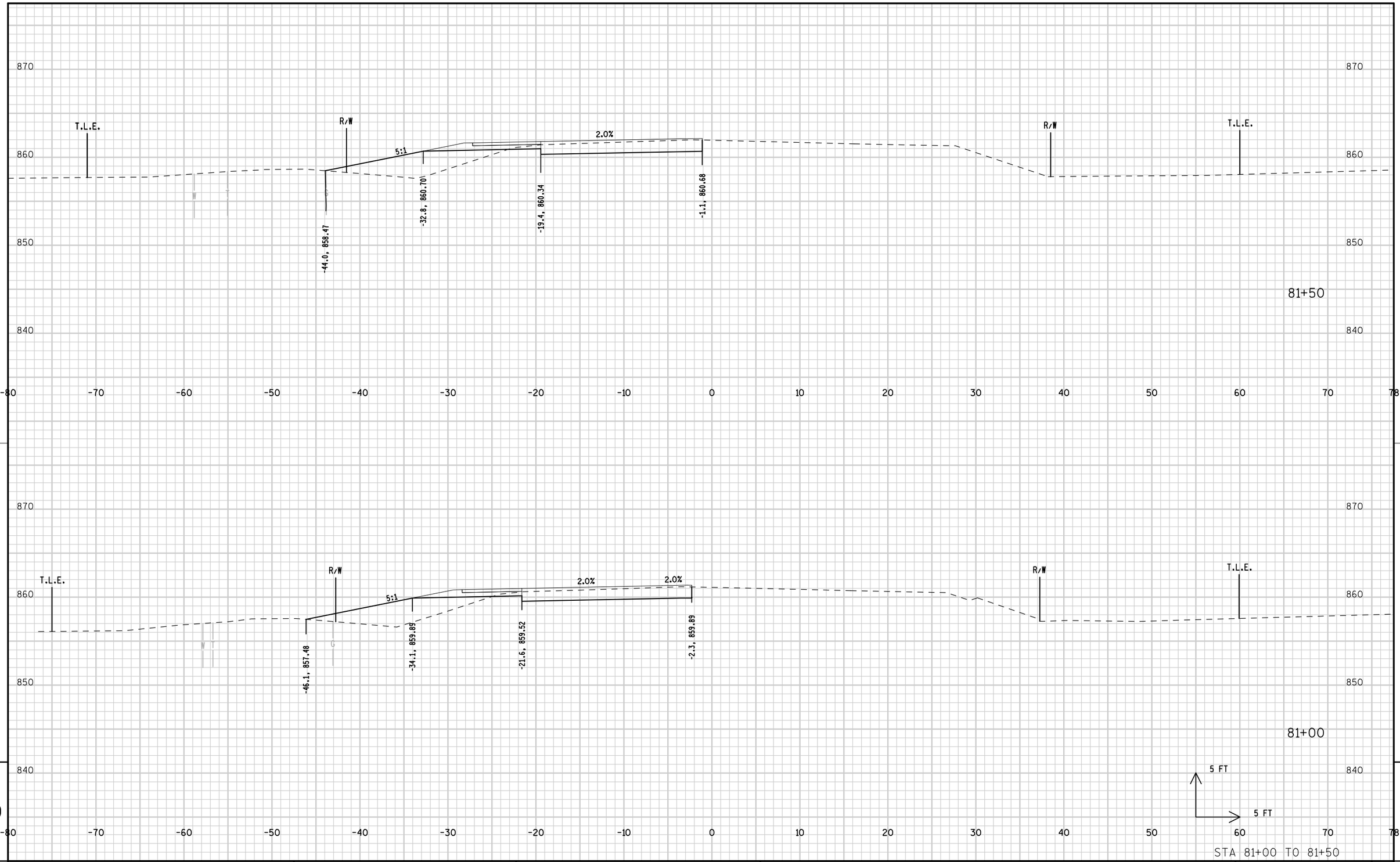
WISDOT/CADDS SHEET 21



PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1C	SHEET 427	E



PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1C	SHEET 428	E

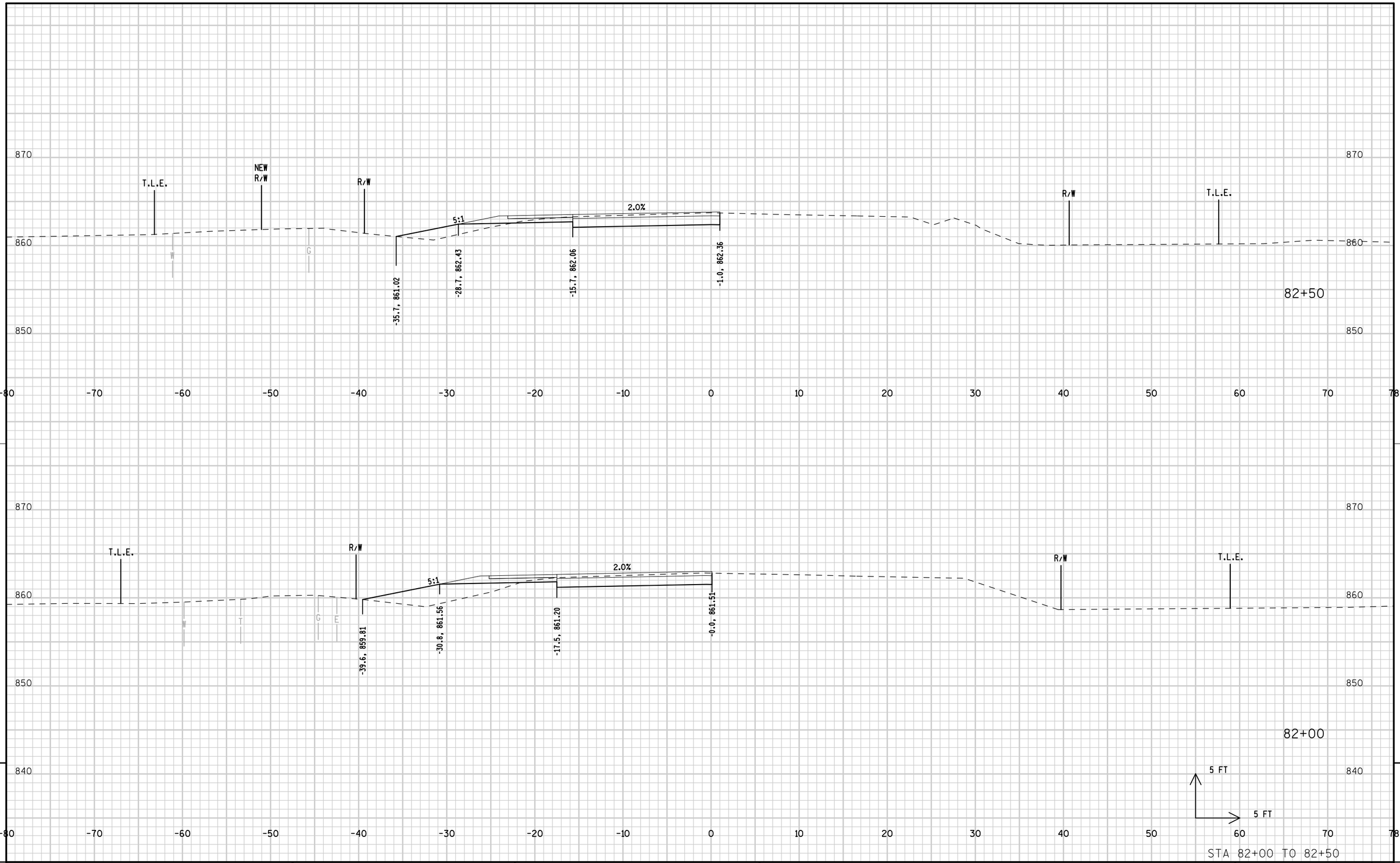


STA 81+00 TO 81+50

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1C	SHEET 429	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090285_xs_s1C.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

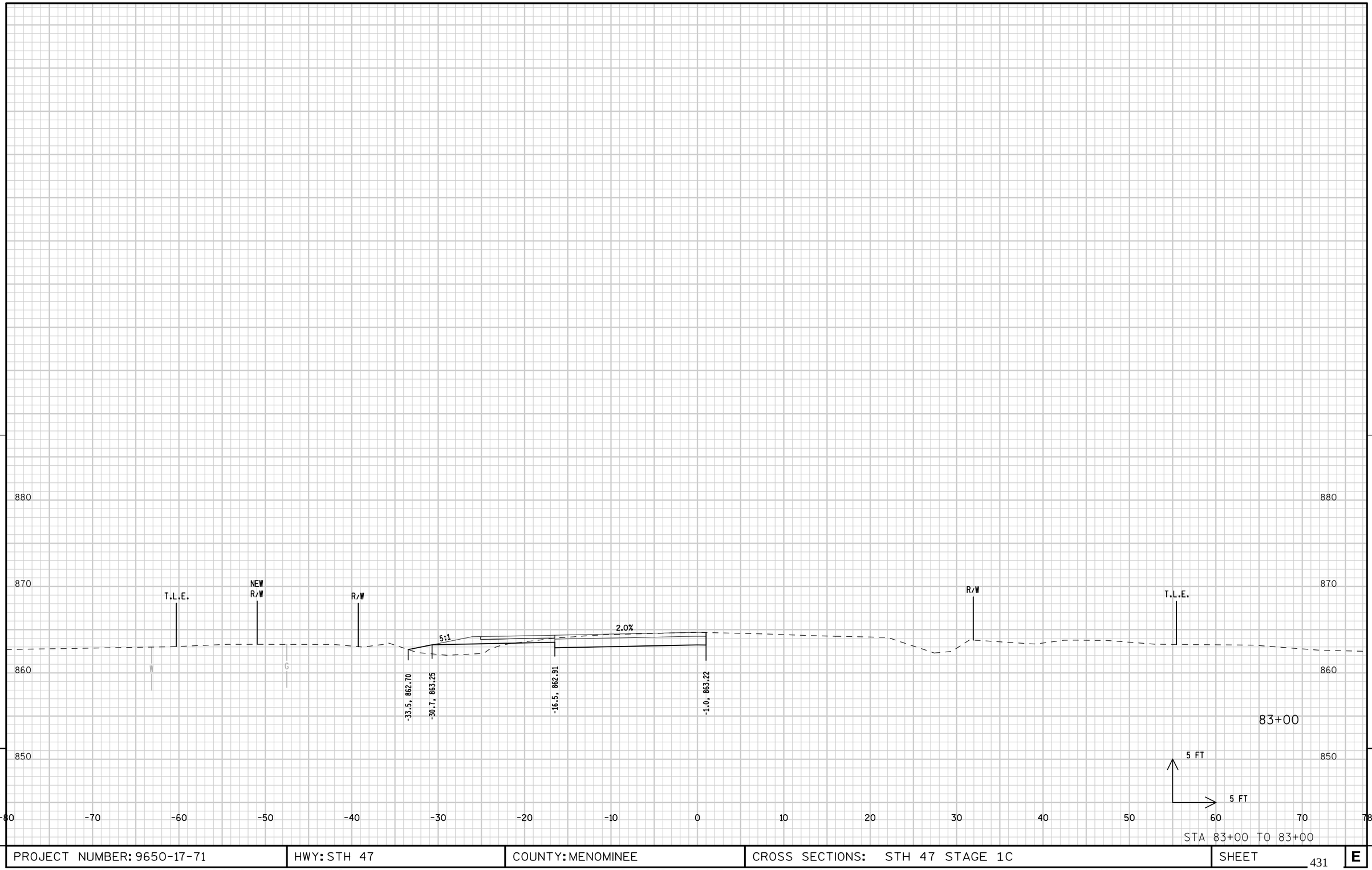
WISDOT/CADDS SHEET 21



PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1C	SHEET 430 E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090286_xs_s1C.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21



STA 83+00 TO 83+00

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 1C	SHEET 431	E

890

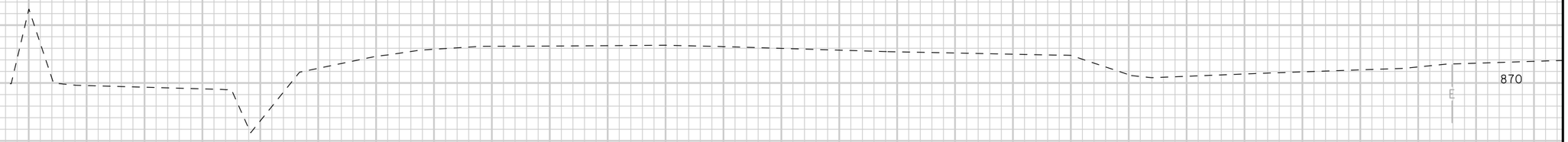
890

880

870

860

850



48+67

5 FT

5 FT

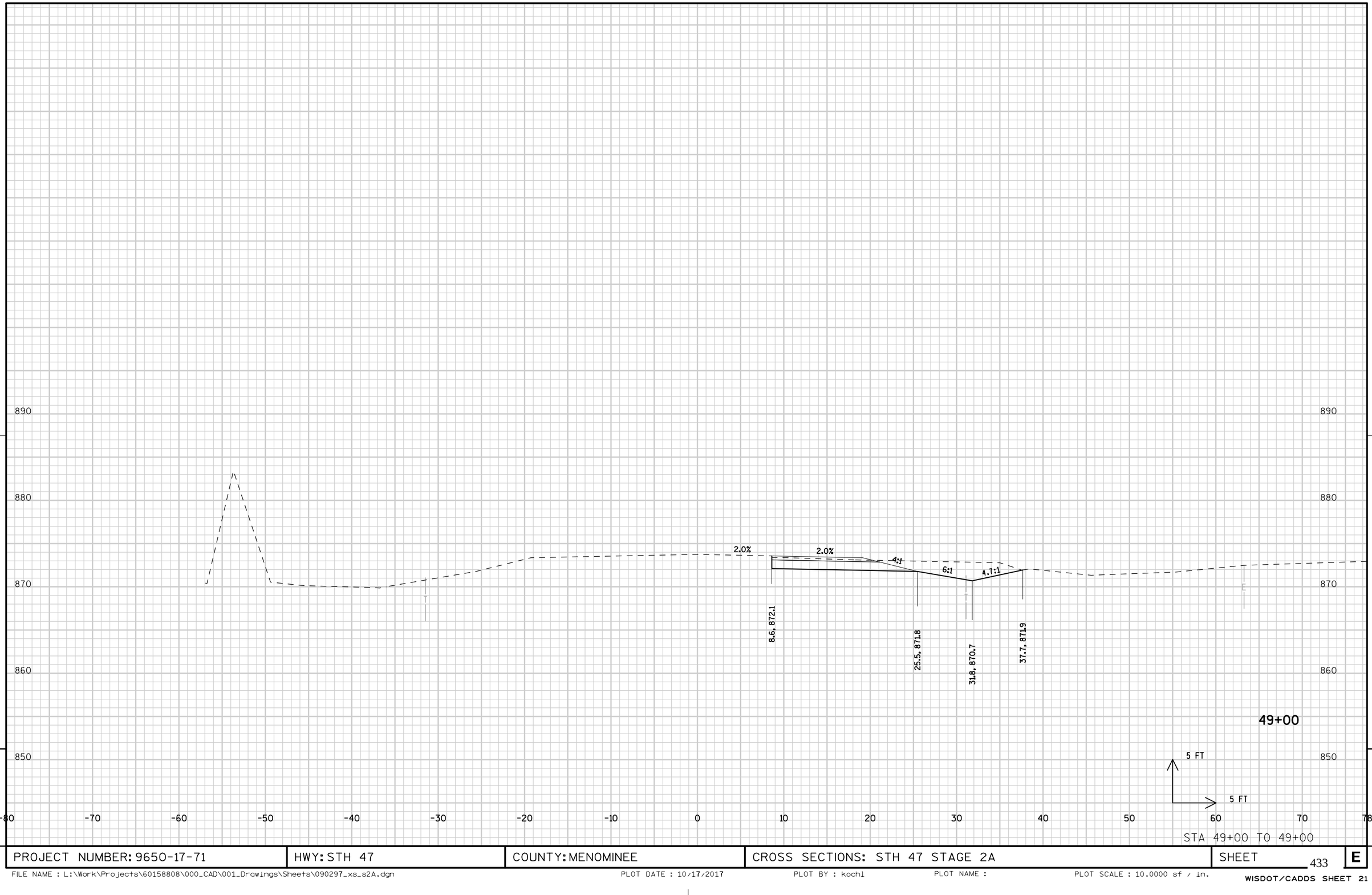
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STA 48+67 TO 48+67

9

9

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2A	SHEET 432	E

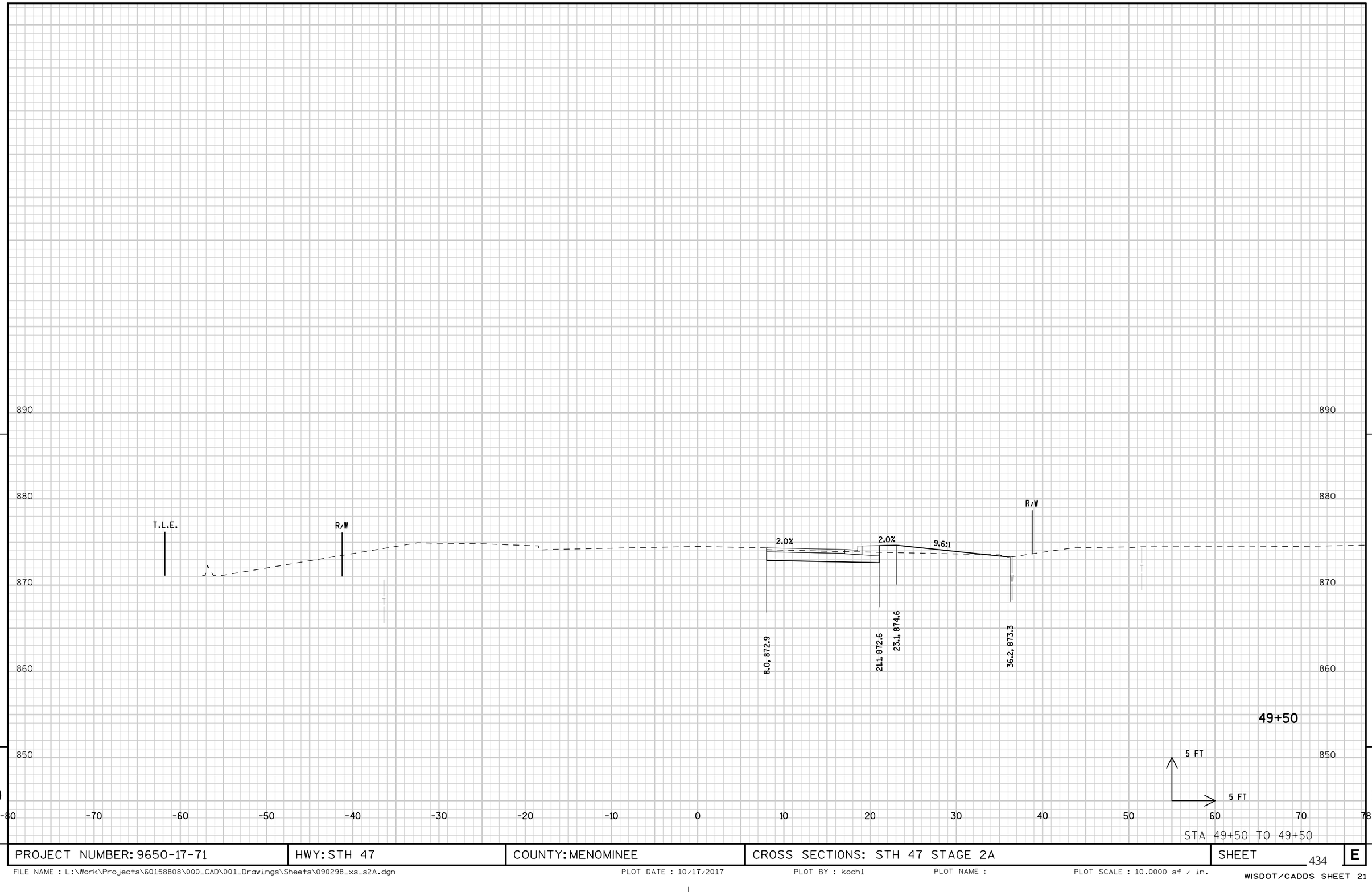


STA 49+00 TO 49+00

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2A	SHEET 433	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090297_xs_s2A.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

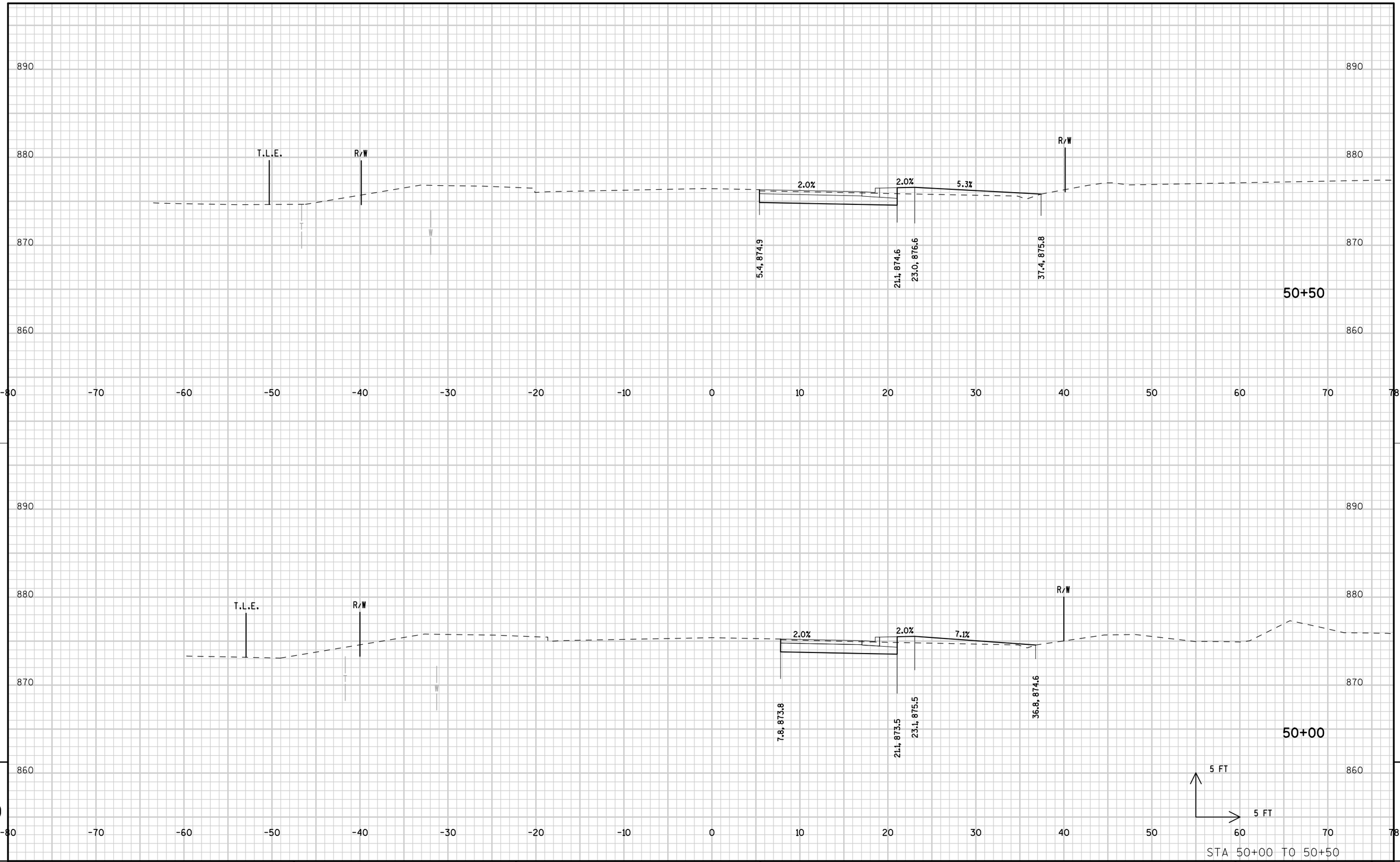
WISDOT/CADDS SHEET 21



PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2A	SHEET 434	E

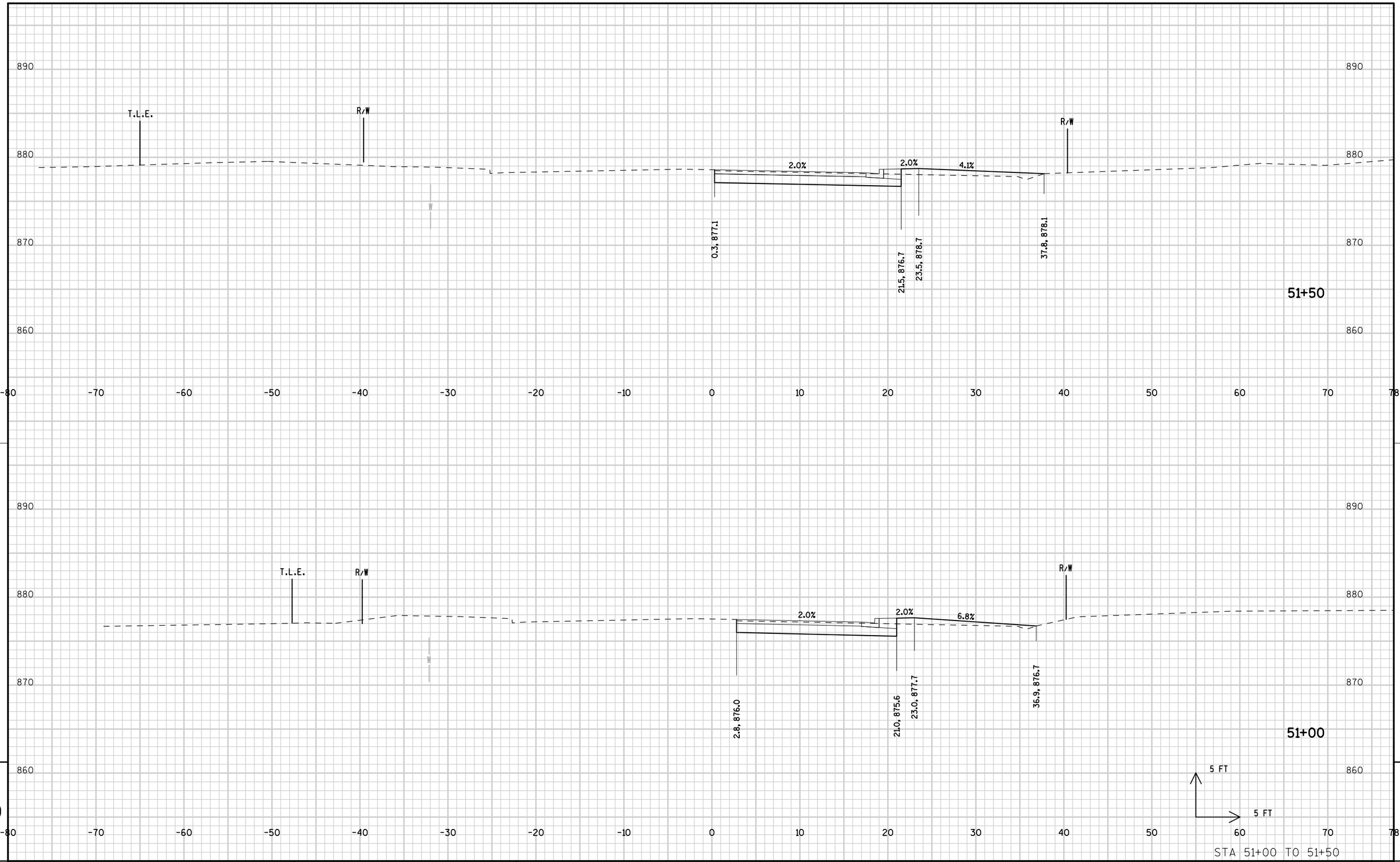
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WISDOT/CADDS SHEET 21



STA 50+00 TO 50+50

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2A	SHEET 435	E

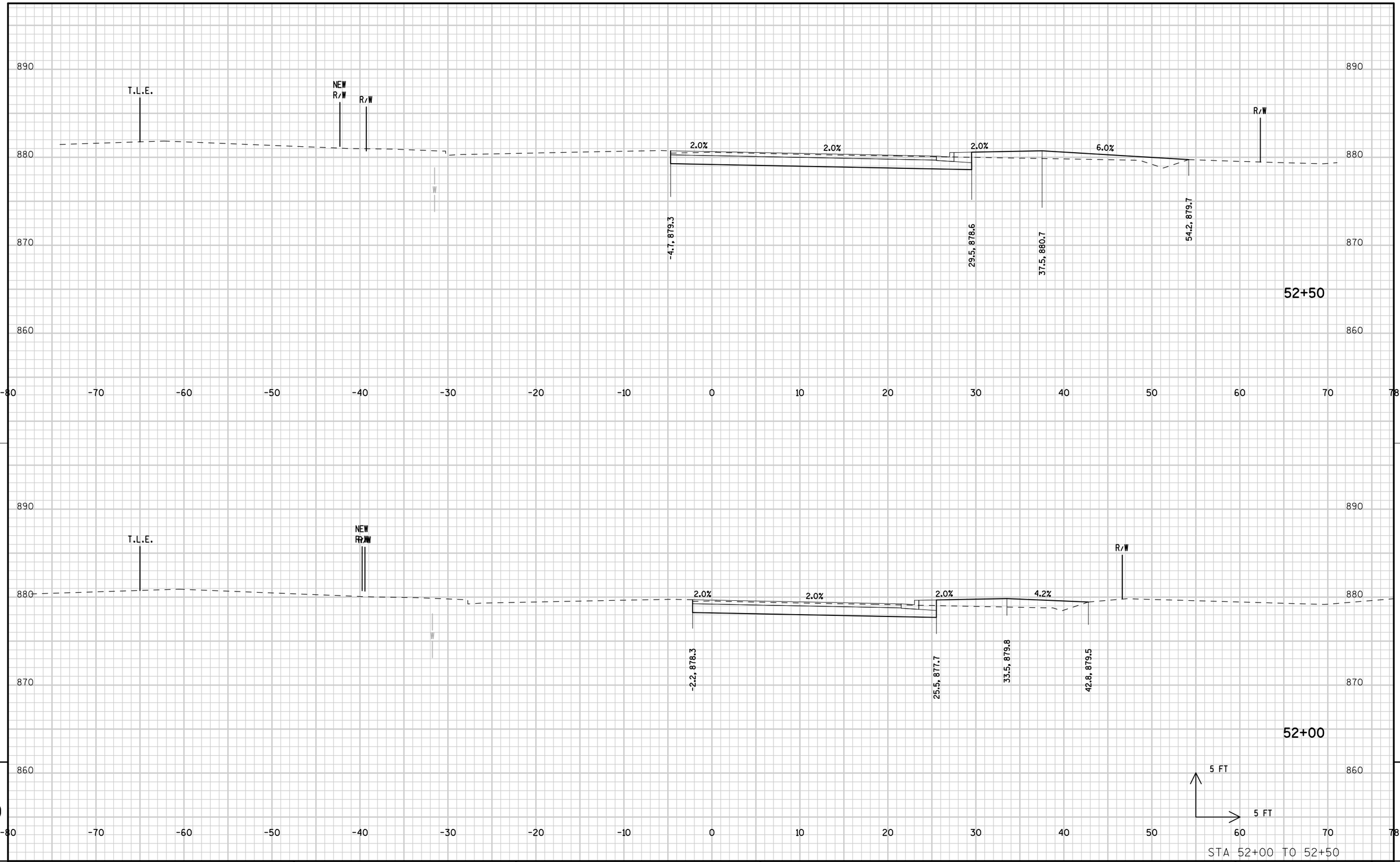


STA 51+00 TO 51+50

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2A	SHEET 436	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090300_xs_s2A.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

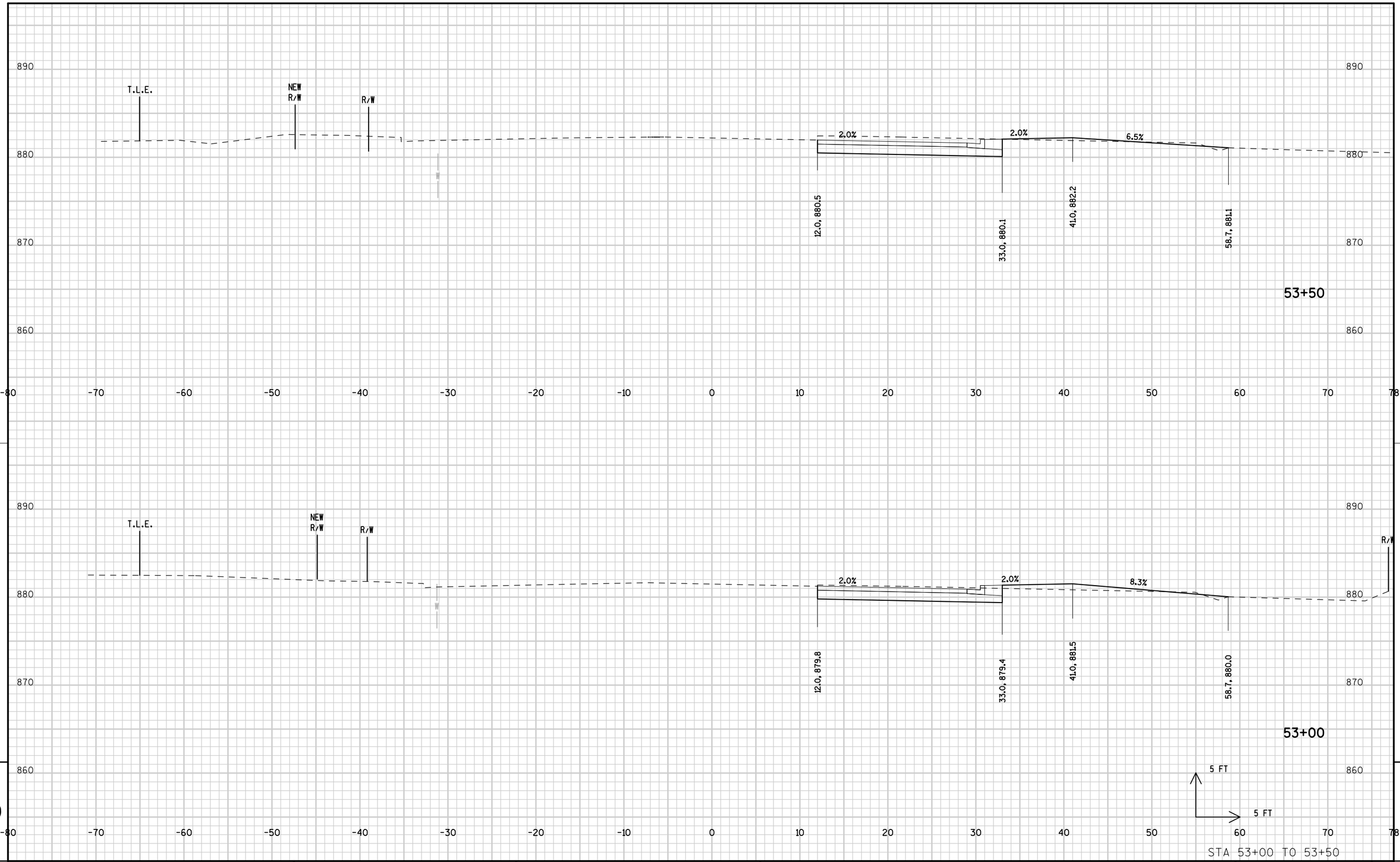
WISDOT/CADDS SHEET 21



STA 52+00 TO 52+50

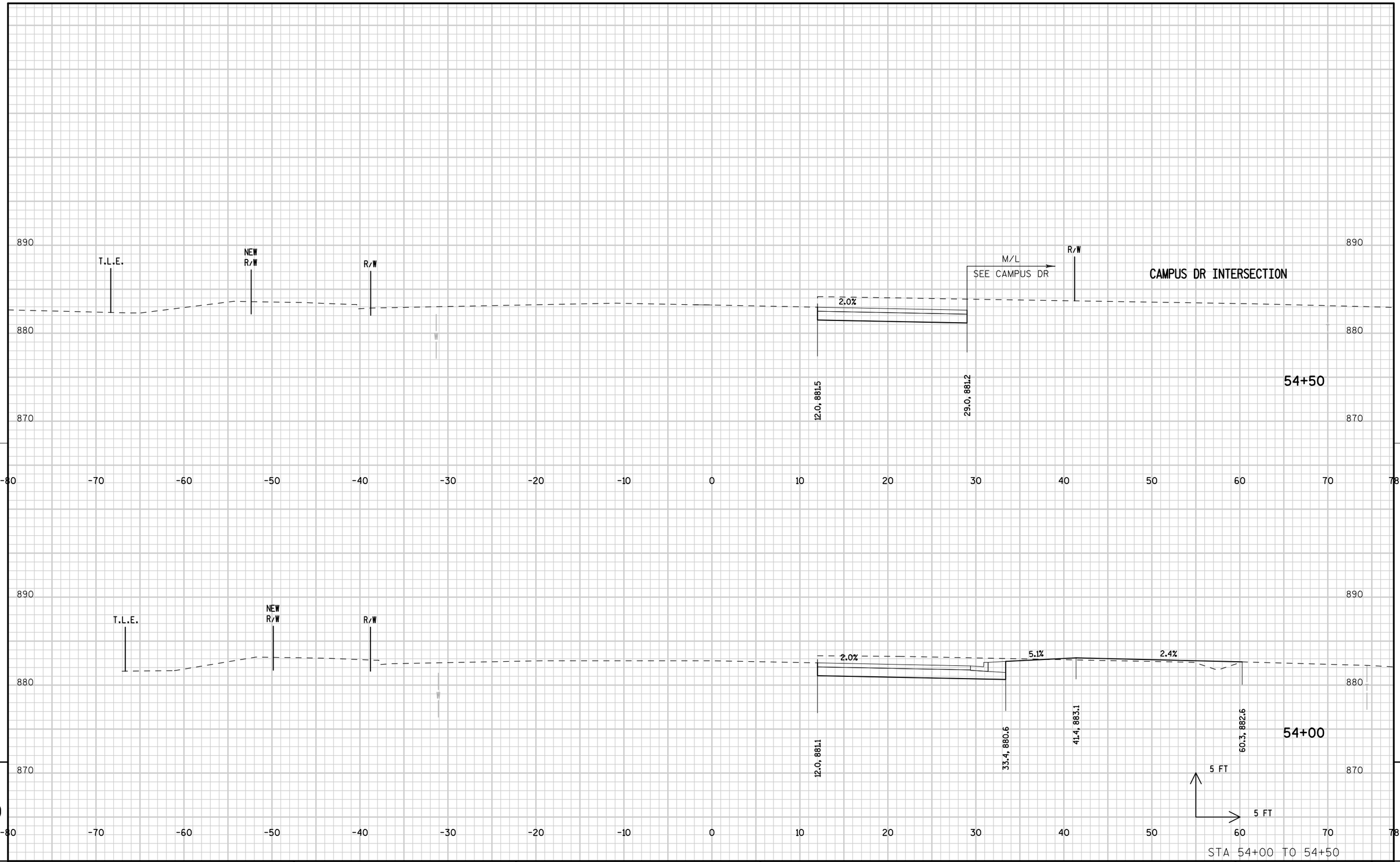
PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2A	SHEET 437	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090301_xs_s2A.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.
WISDOT/CADDS SHEET 21

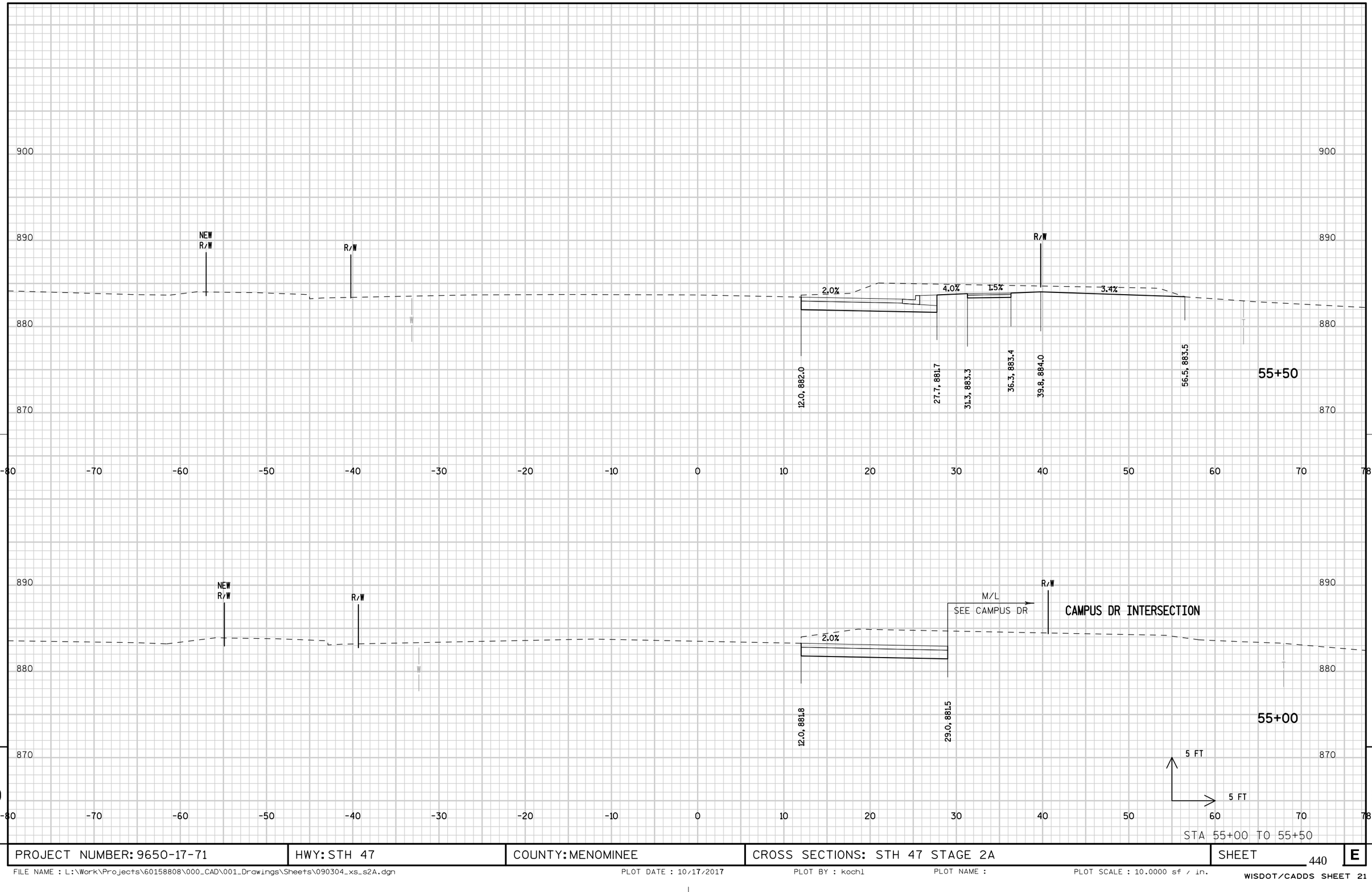


STA 53+00 TO 53+50

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2A	SHEET 438	E



PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2A	SHEET 439	E

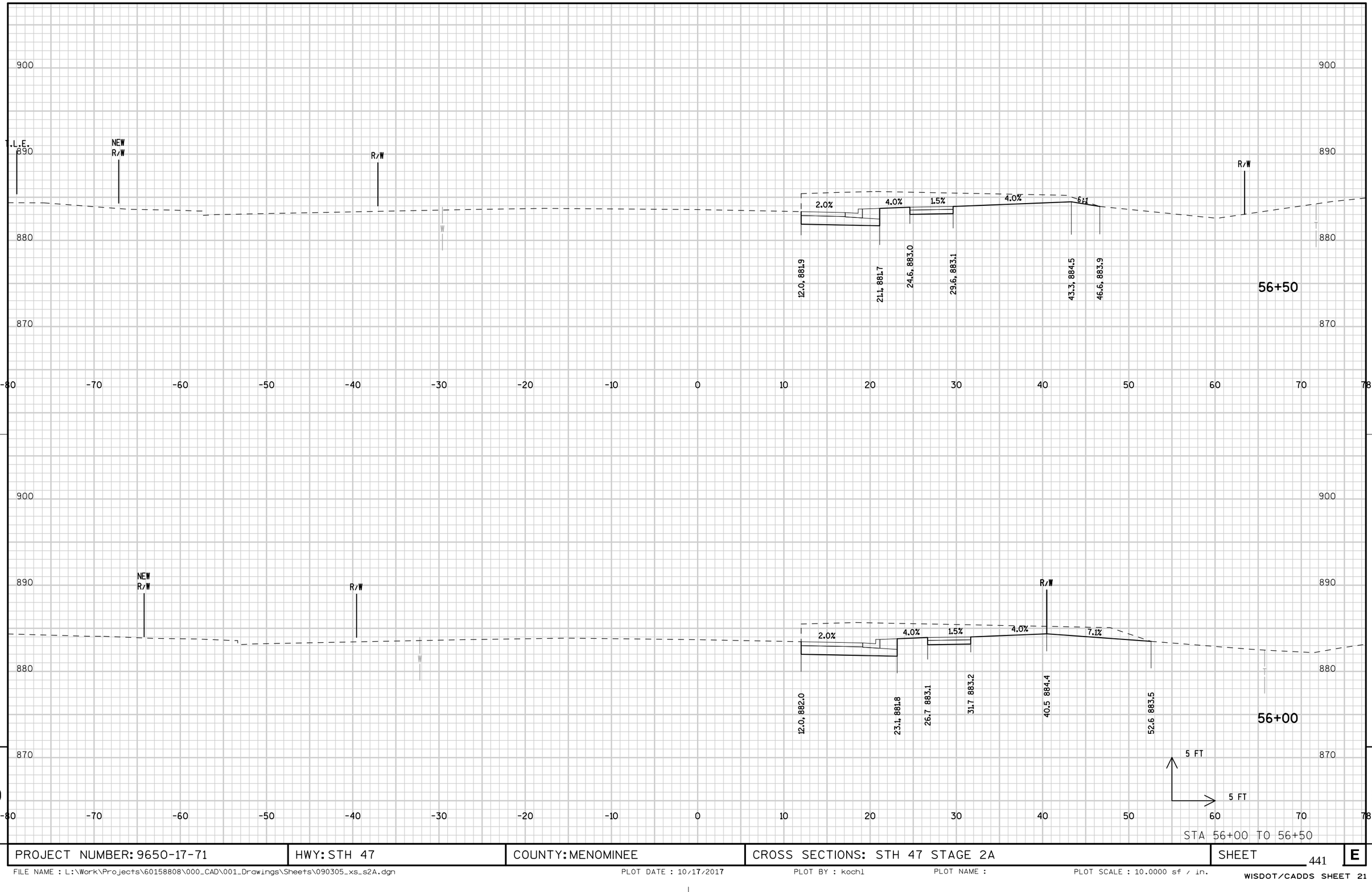


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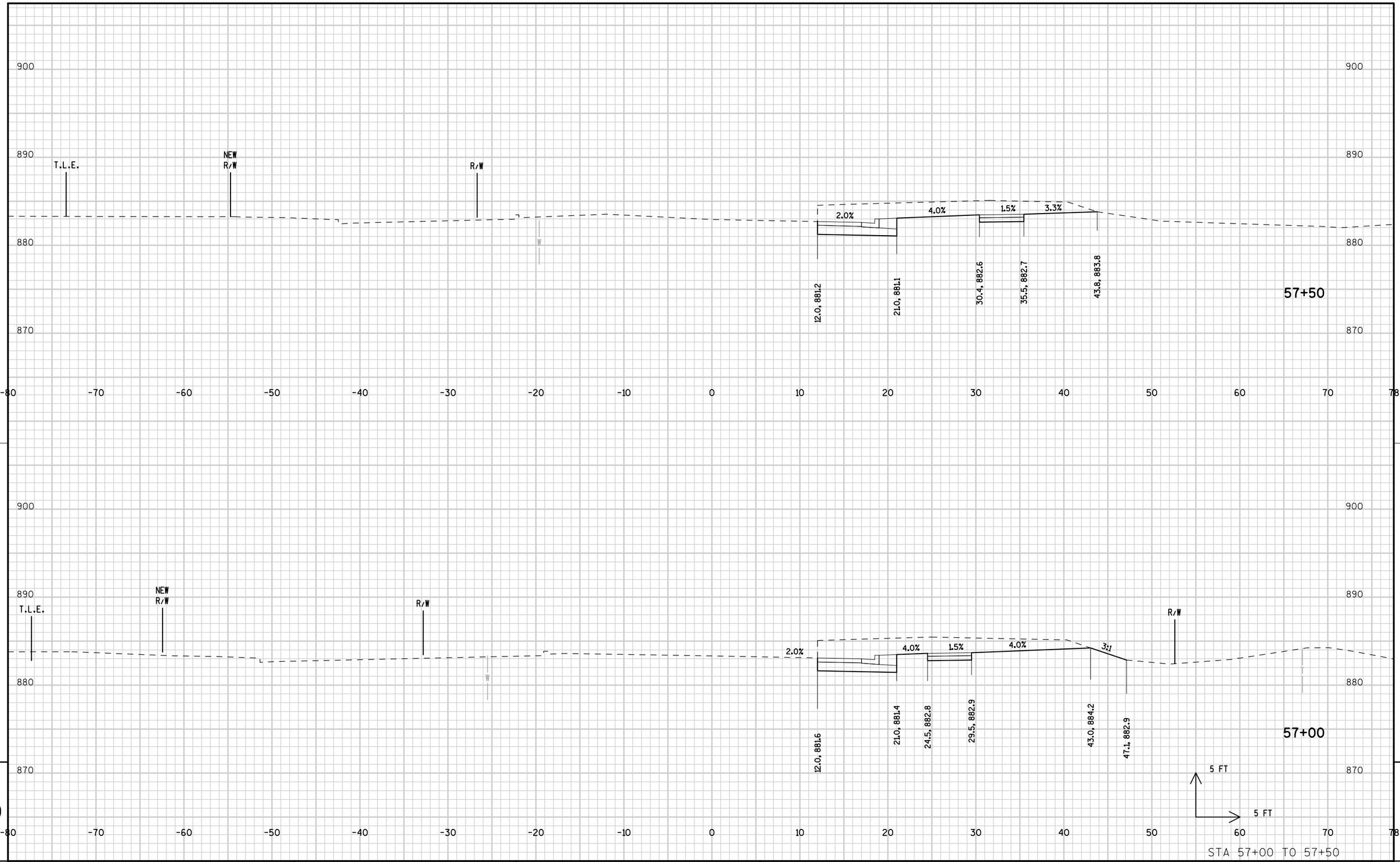
PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2A	SHEET 440	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090304_xs_s2A.dgn
PLOT DATE : 10/17/2017
PLOT BY : kochl
PLOT NAME :
PLOT SCALE : 10.0000 sf / in.
WISDOT/CADDS SHEET 21



STA 56+00 TO 56+50

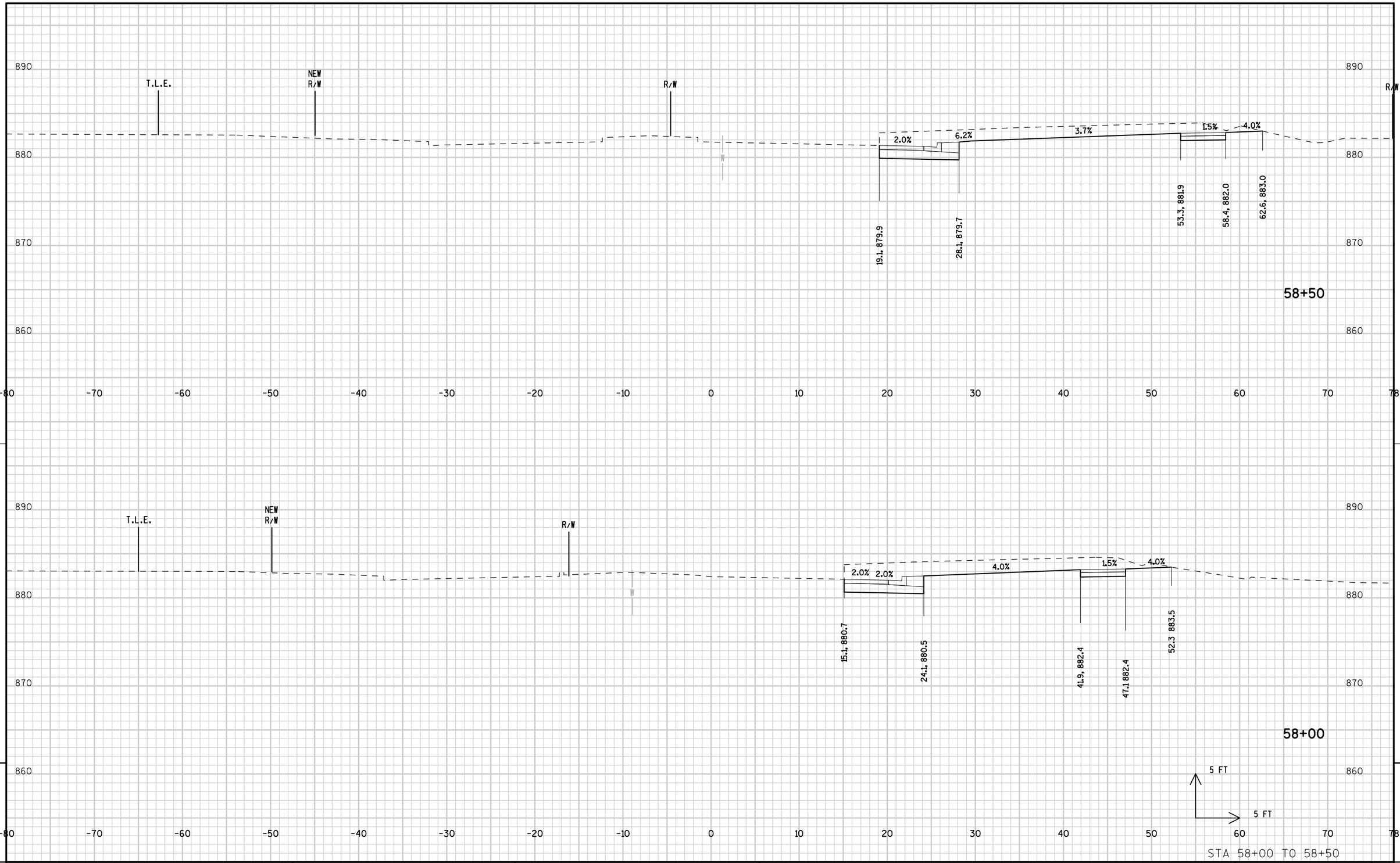
PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2A	SHEET 441	E



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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2A	SHEET 442	E



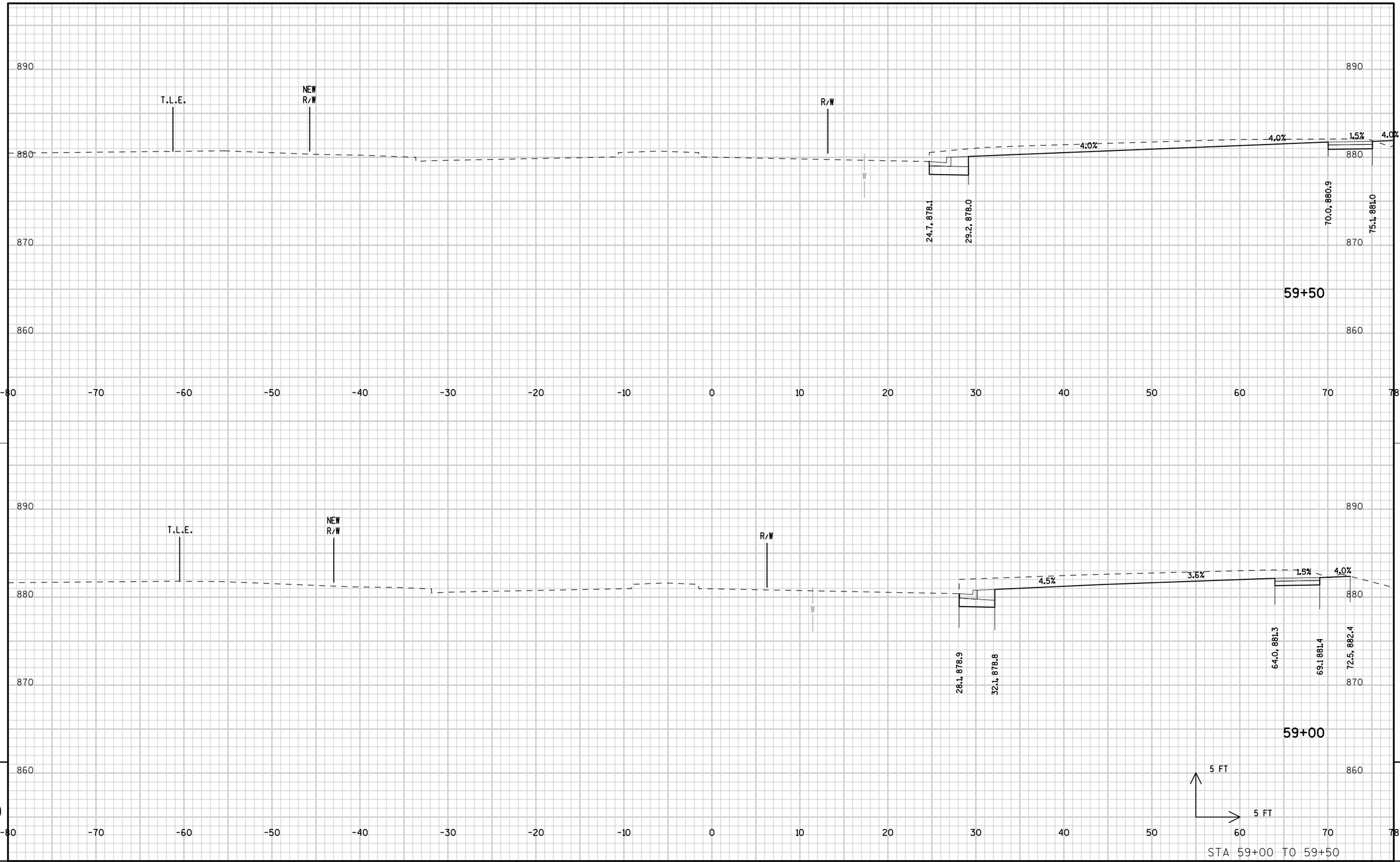
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STA 58+00 TO 58+50

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2A	SHEET 443	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090307_xs_s2A.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.



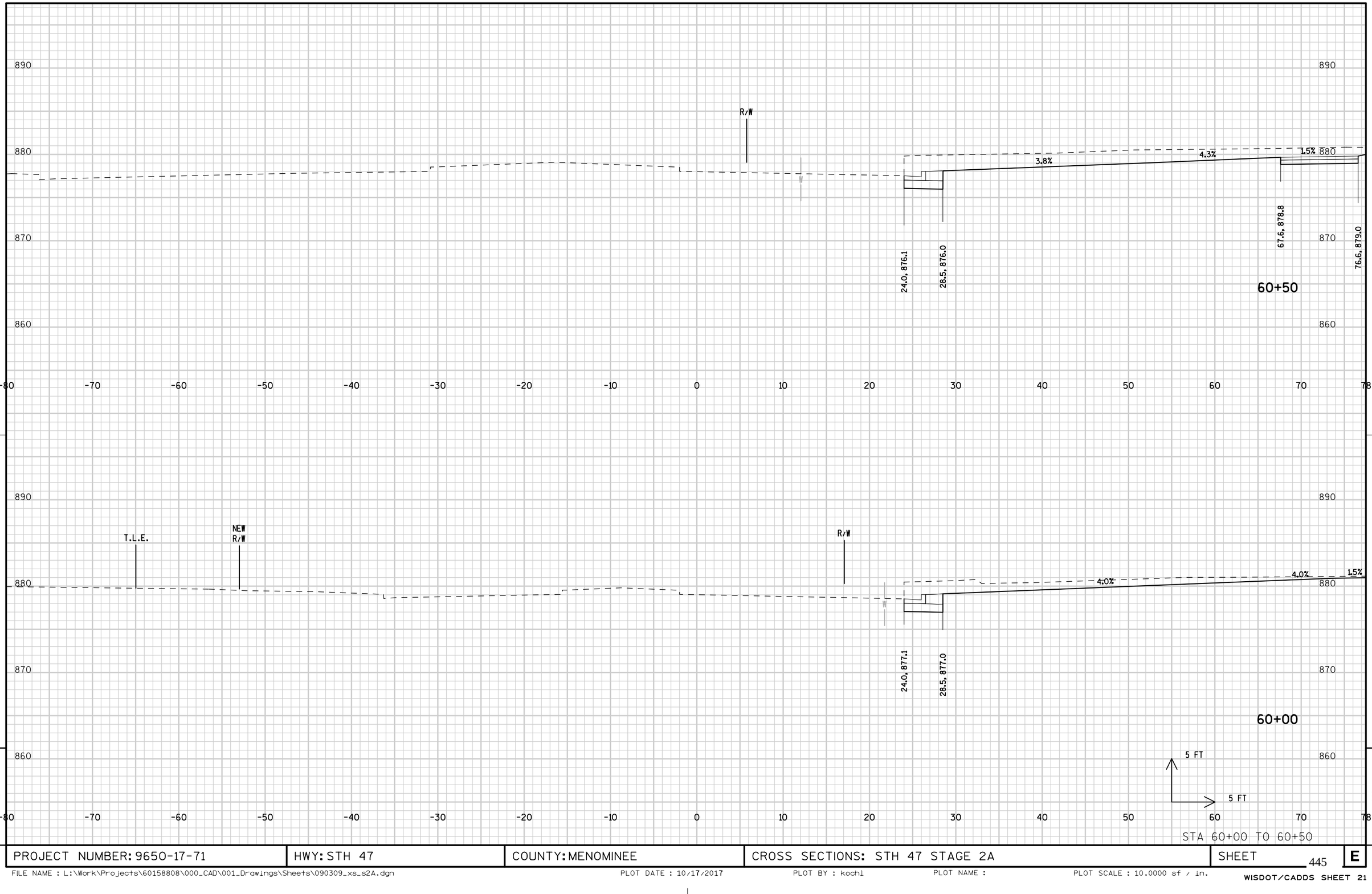
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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2A	SHEET 444	E

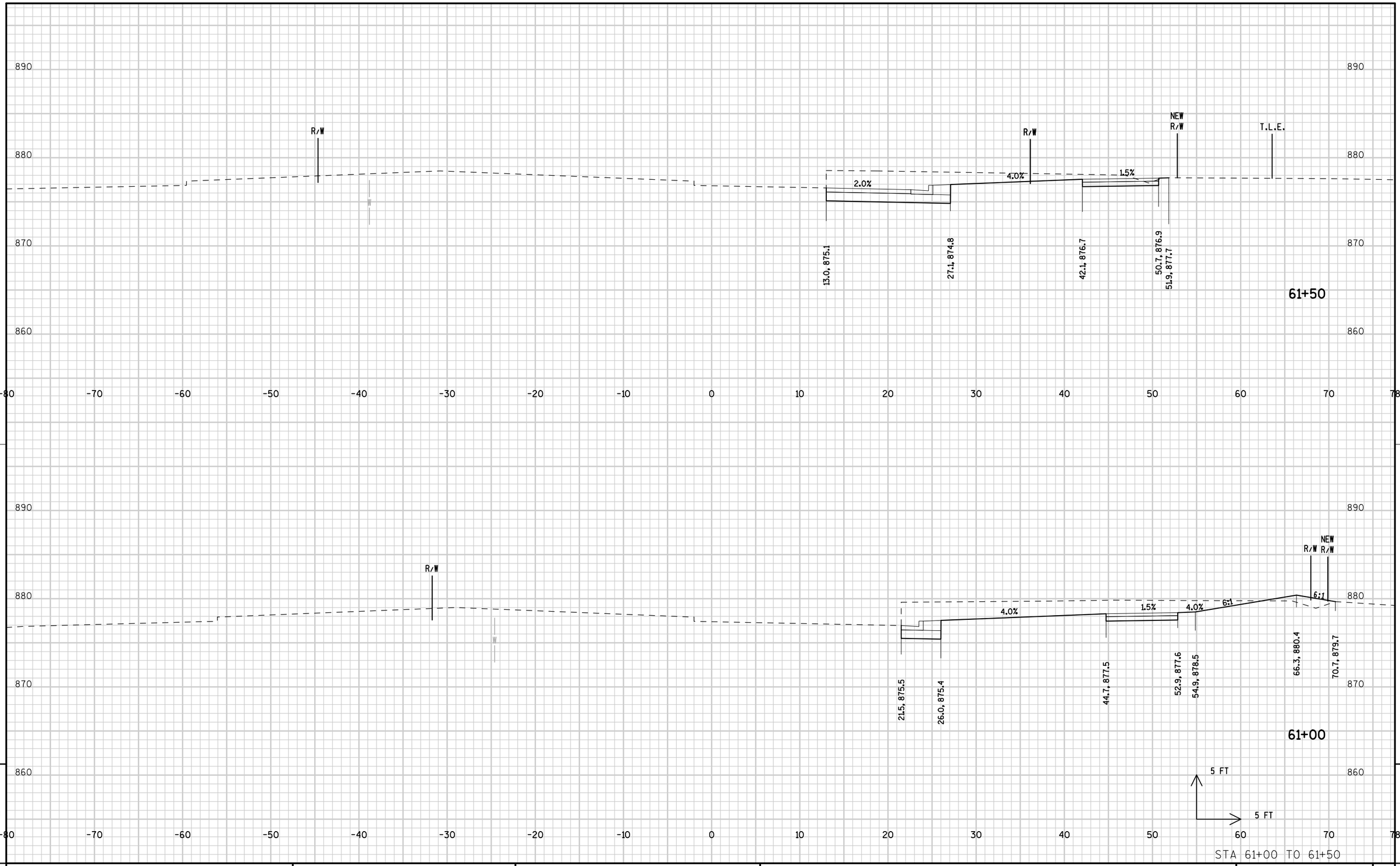
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WISDOT/CADDS SHEET 21



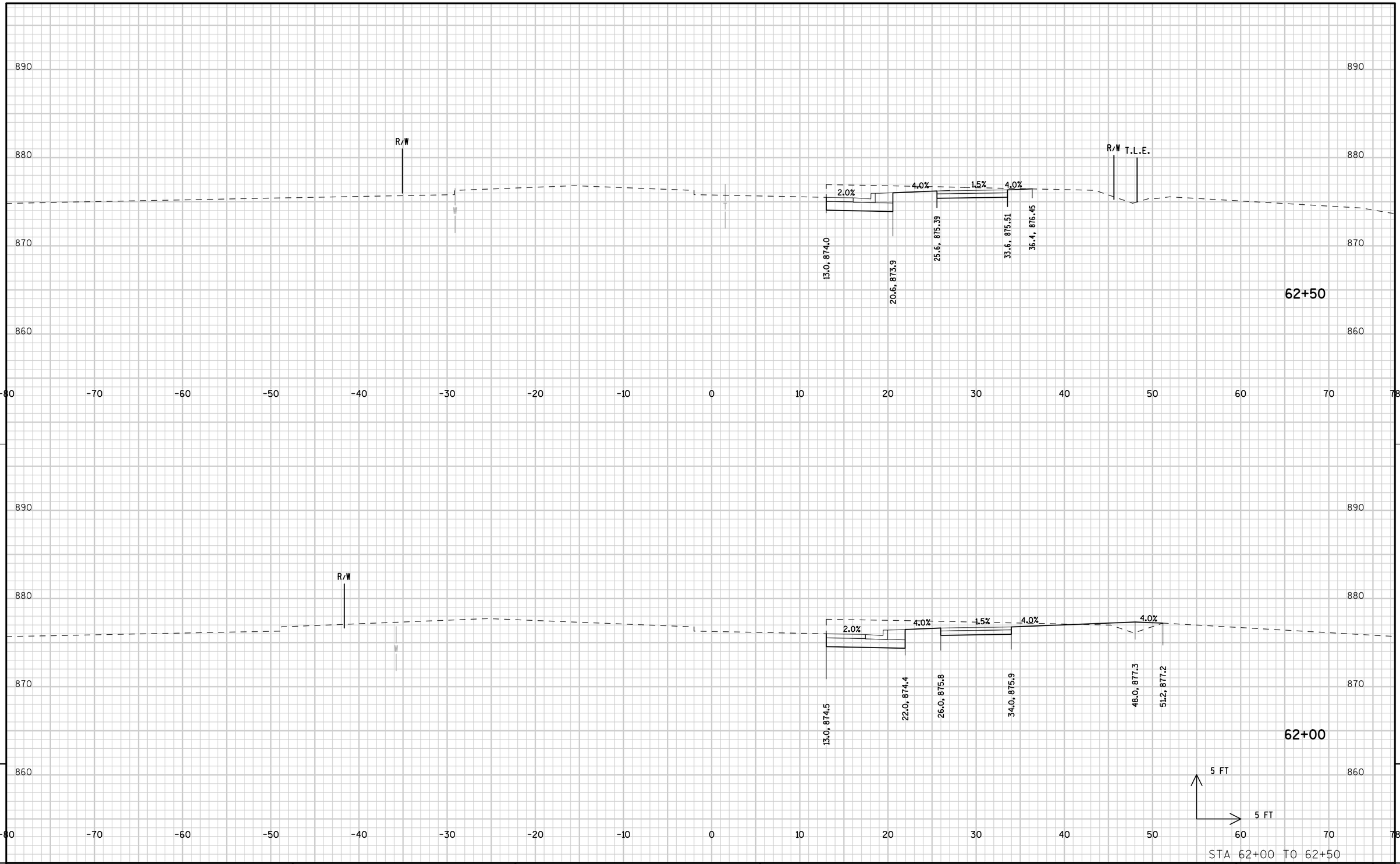
STA 60+00 TO 60+50

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2A	SHEET 445	E



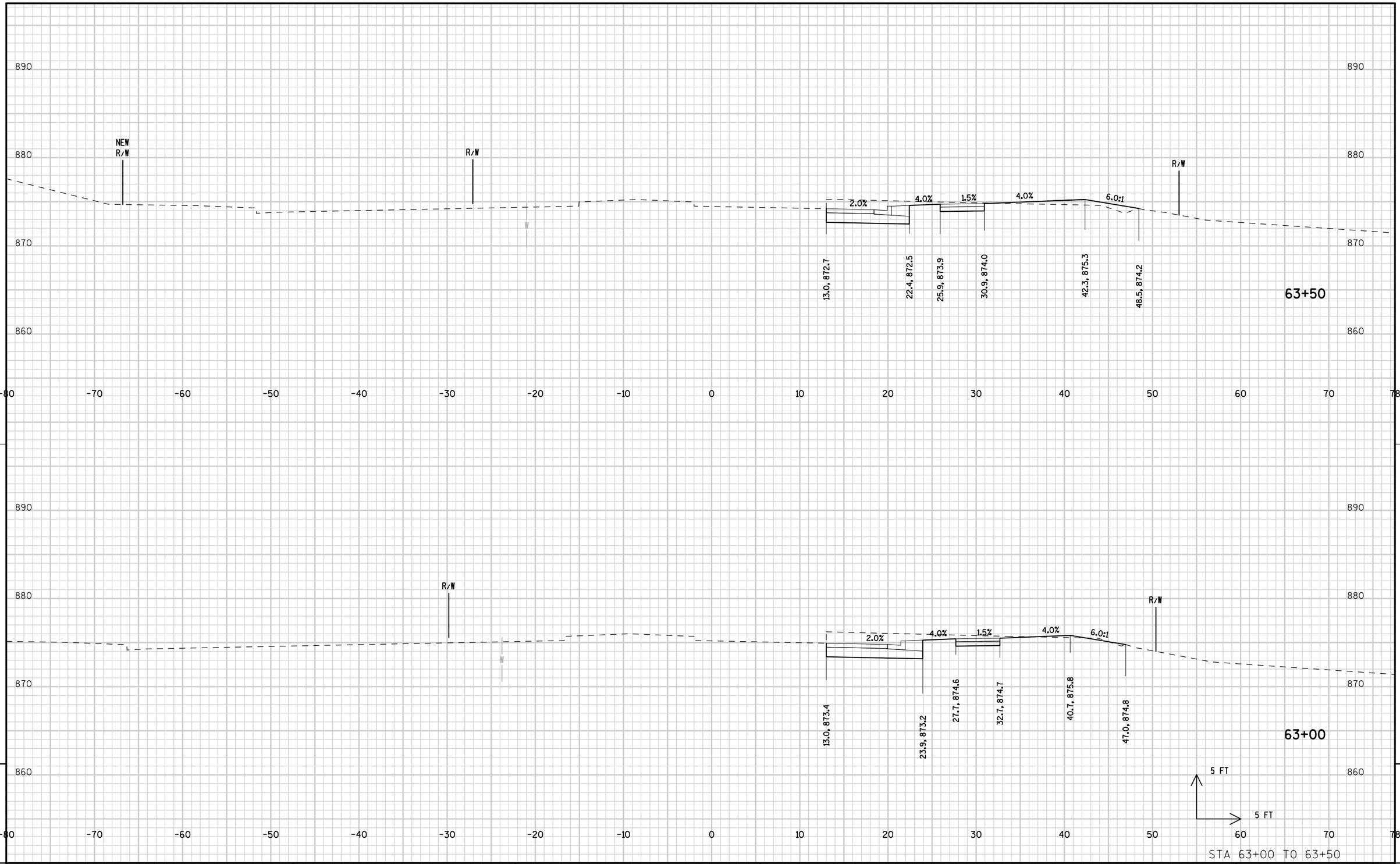
PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2A	SHEET	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090310_xs_s2A.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.
WISDOT/CADDS SHEET 21



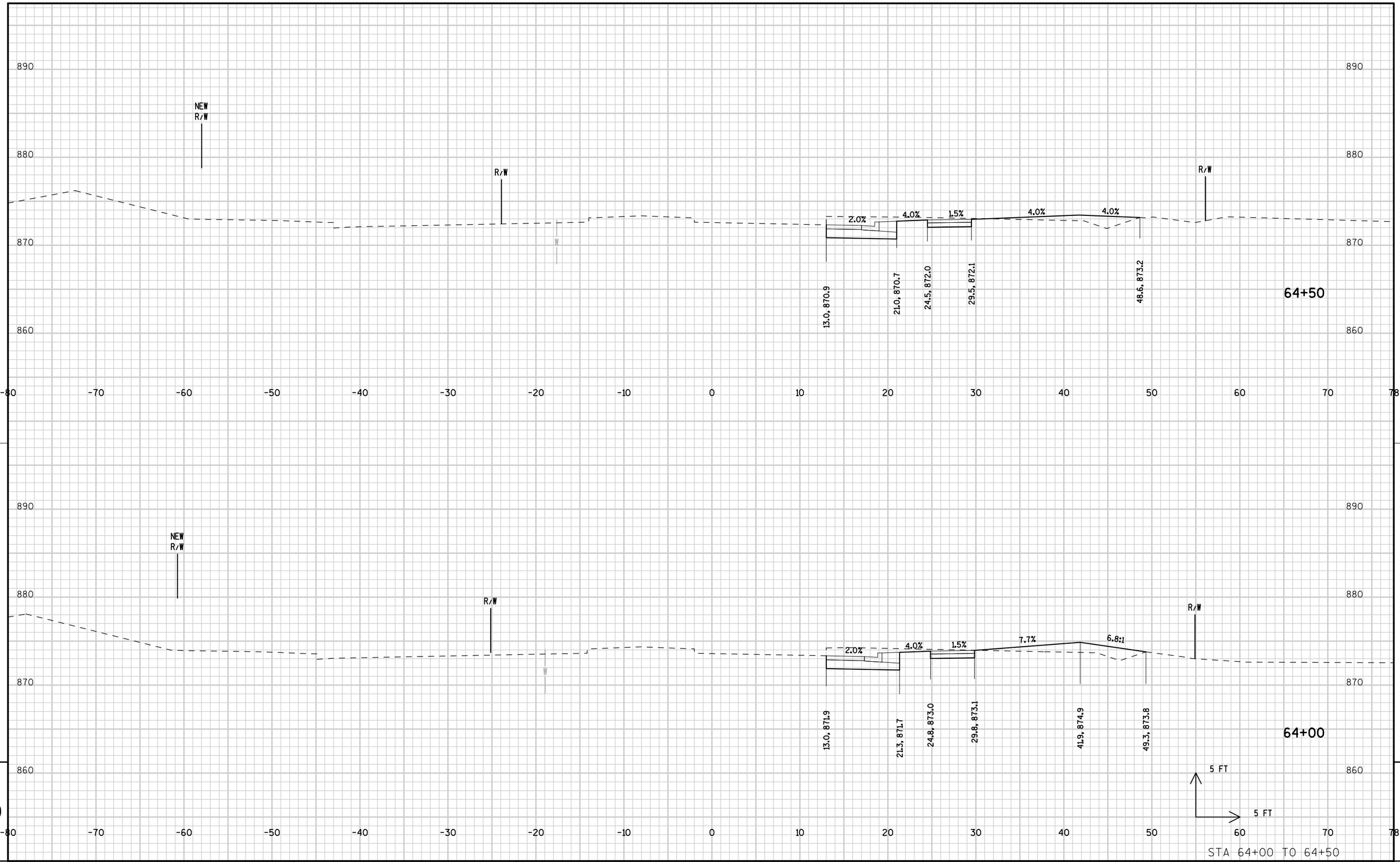
STA 62+00 TO 62+50

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2A	SHEET 447	E



STA 63+00 TO 63+50

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2A	SHEET 448	E

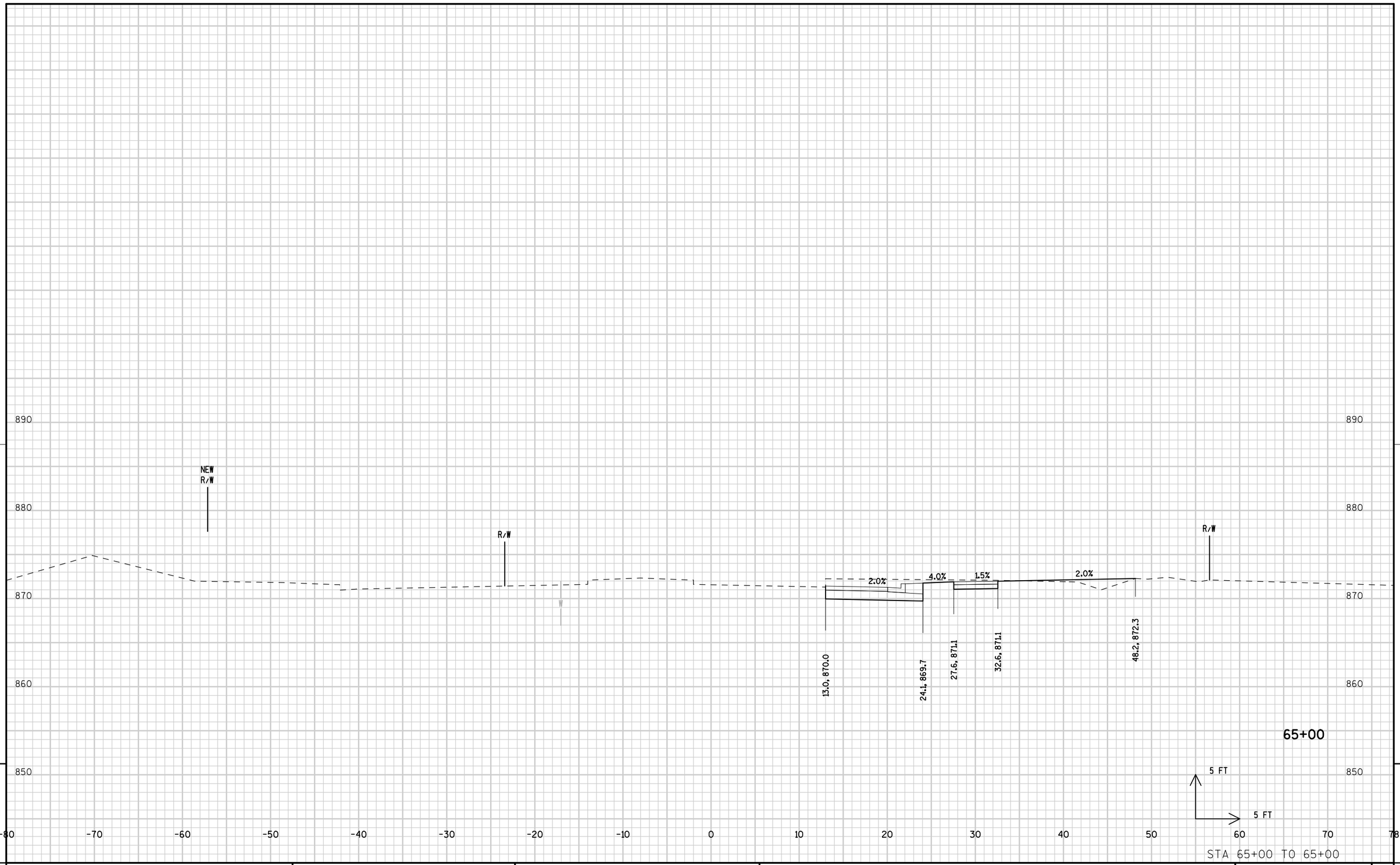


STA 64+00 TO 64+50

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2A	SHEET 449	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090313_xs_s2A.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21

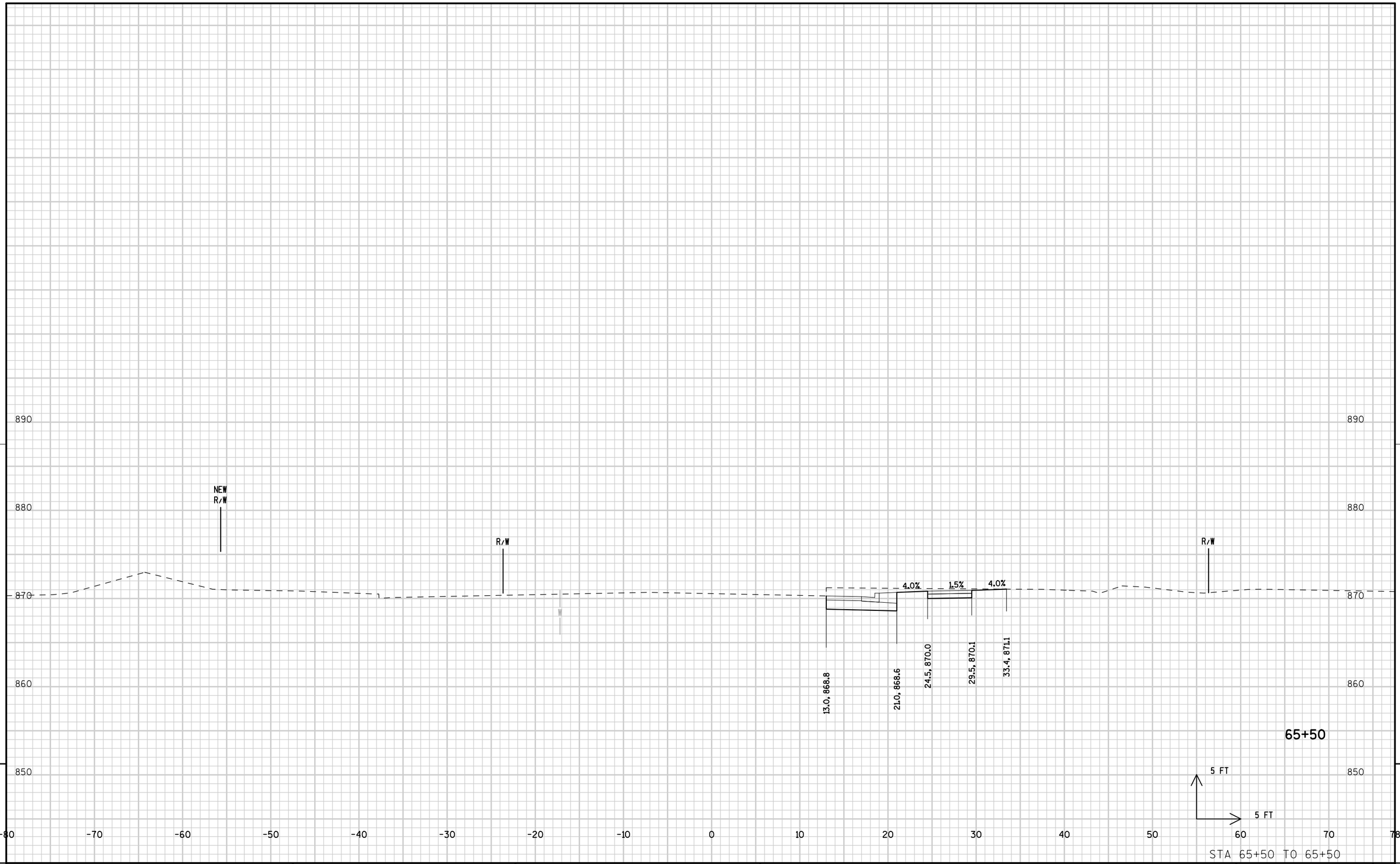


STA 65+00 TO 65+00

9

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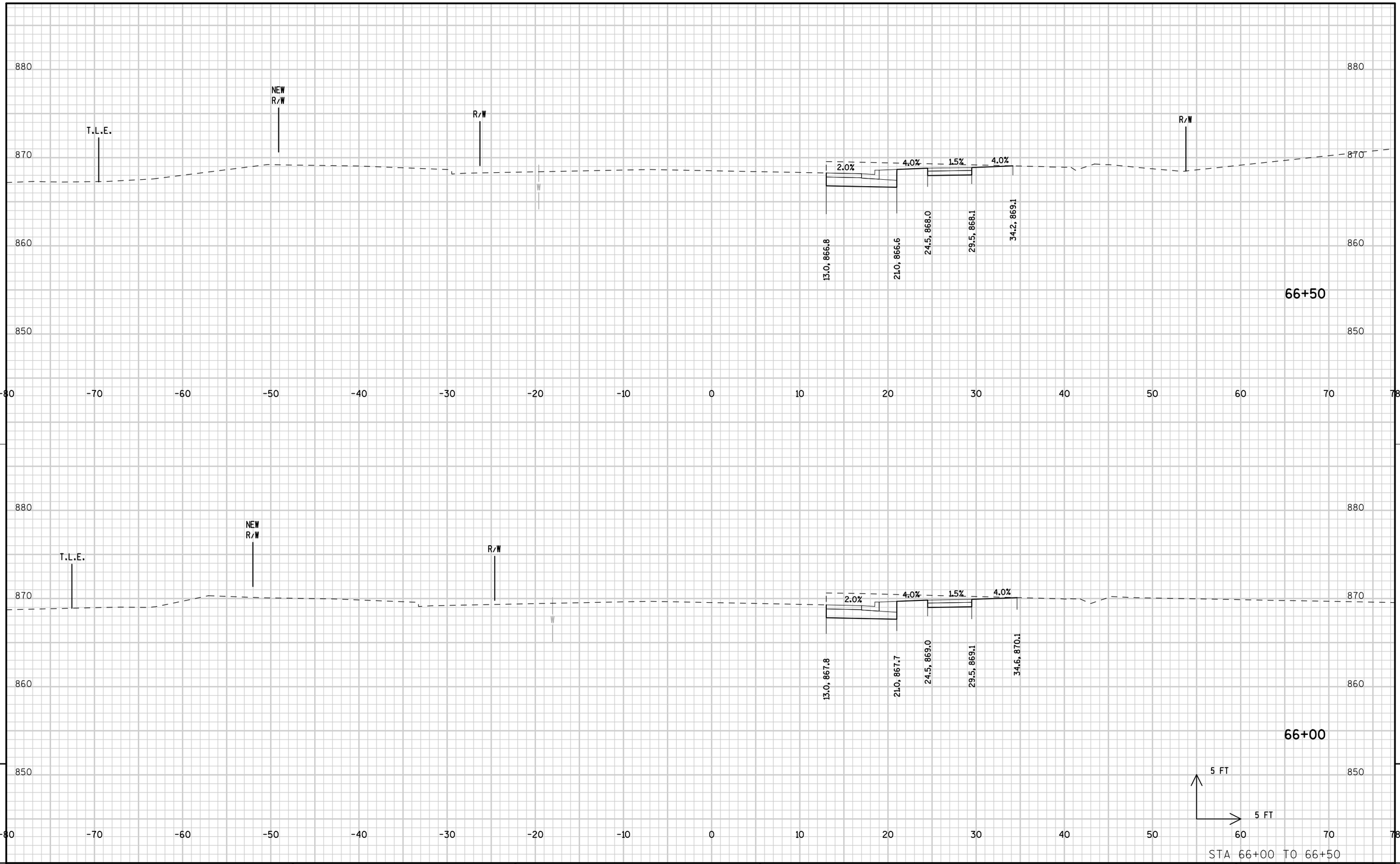
PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2A	SHEET 450	E



9

9

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2A	SHEET 451	E

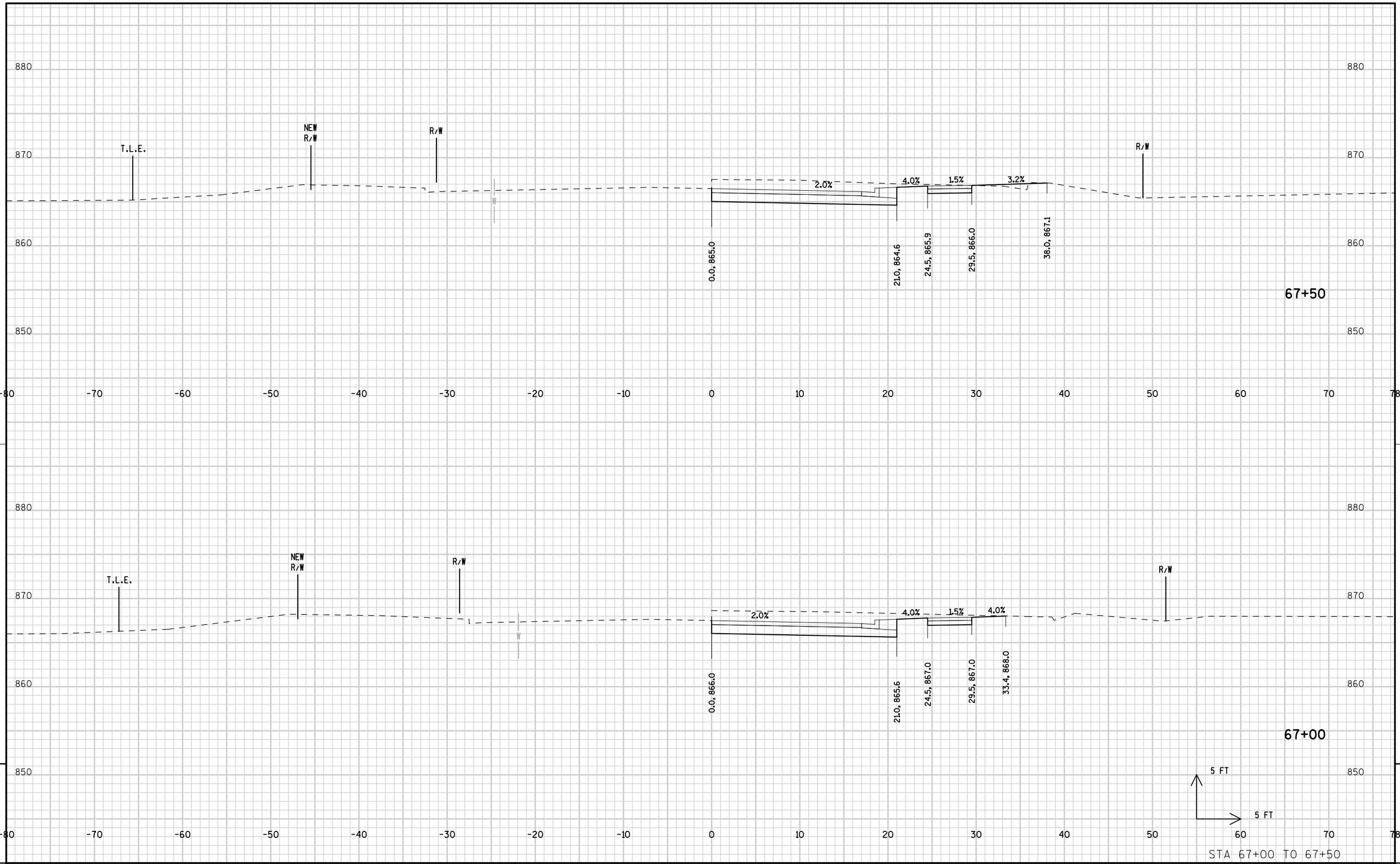


STA 66+00 TO 66+50

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2A	SHEET 452	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090316_xs_s2A.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21

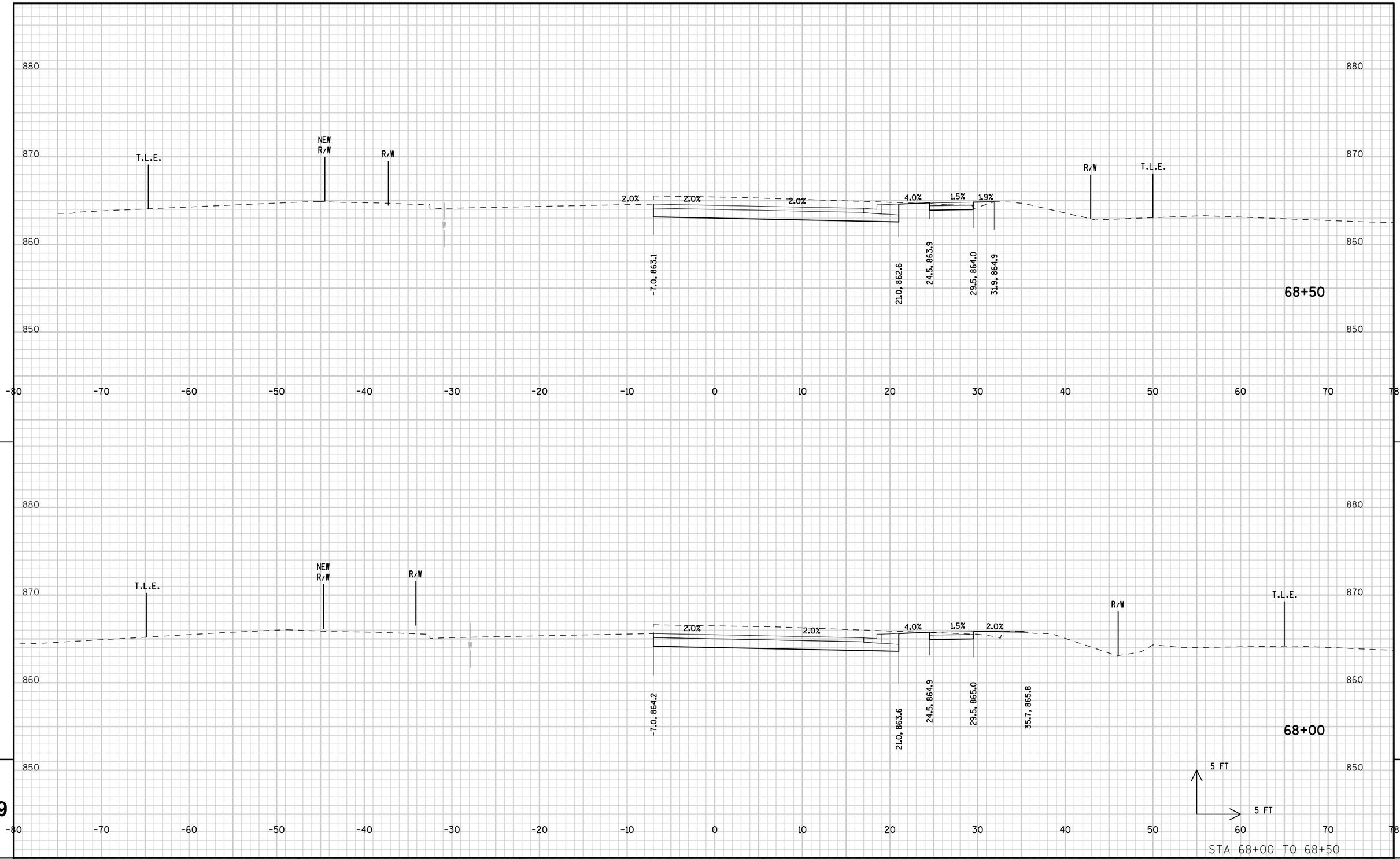


STA 67+00 TO 67+50

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2A	SHEET 453	E

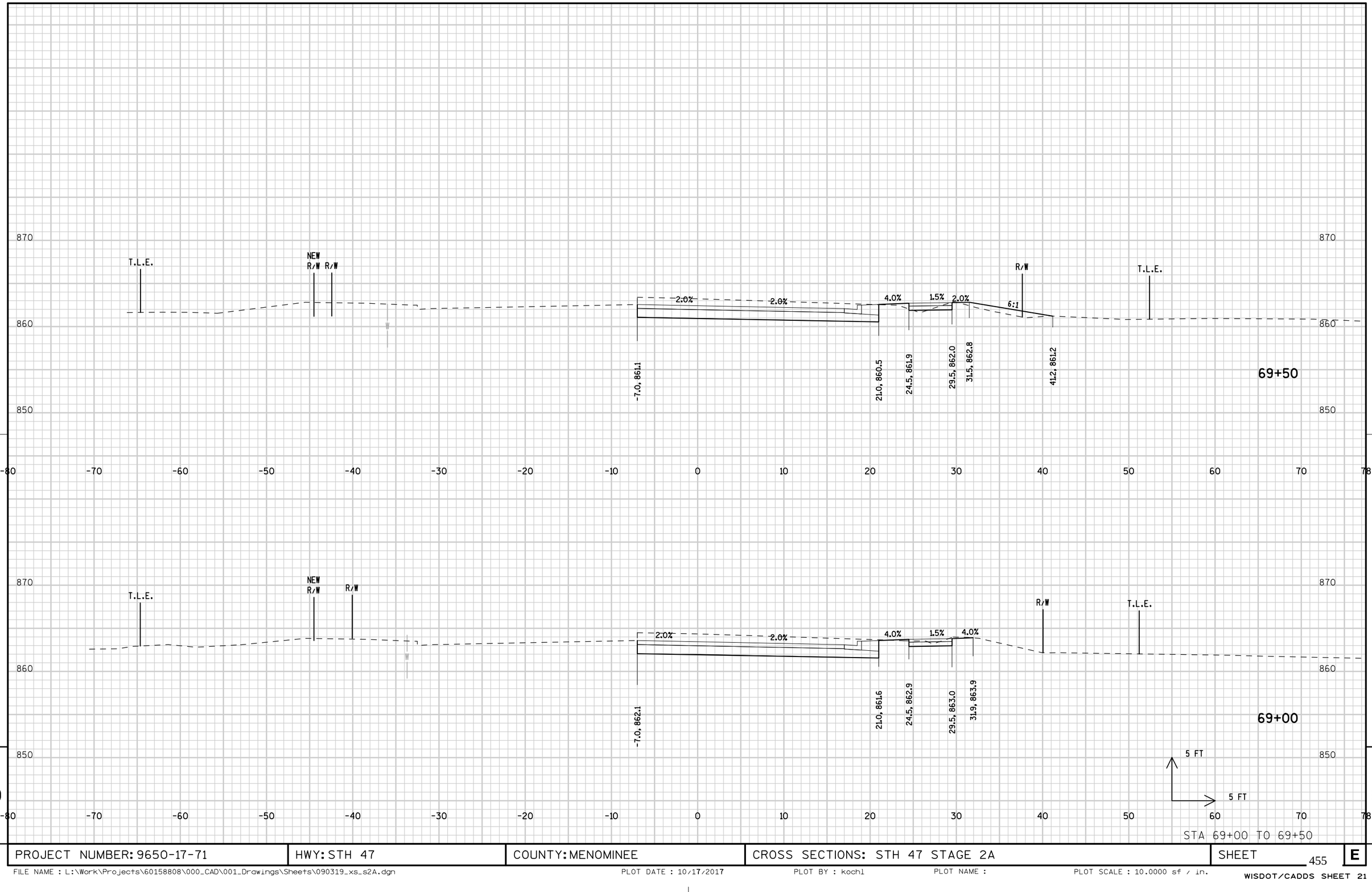
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WISDOT/CADDS SHEET 21



STA 68+00 TO 68+50

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2A	SHEET 454	E

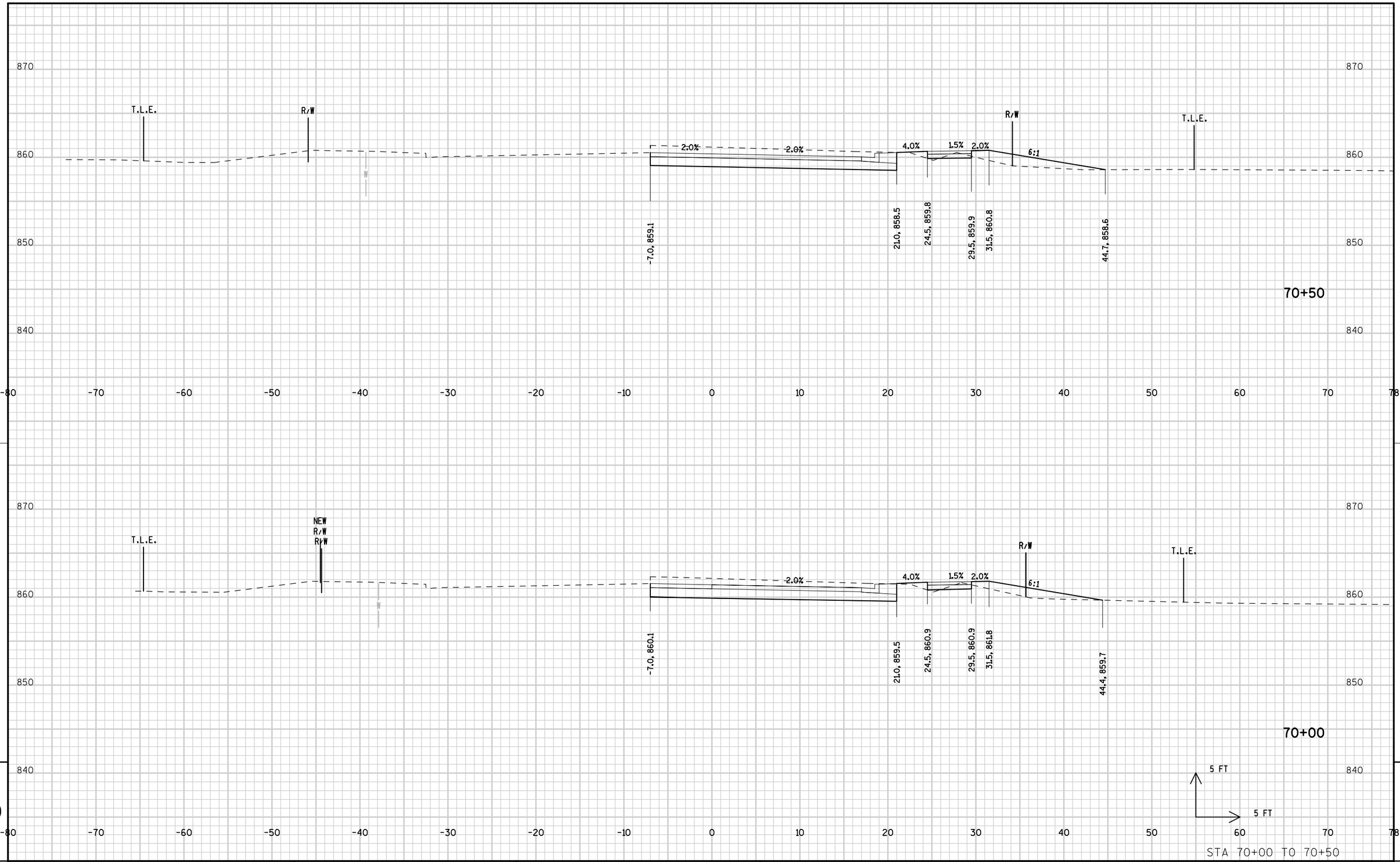


STA 69+00 TO 69+50

9

9

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2A	SHEET 455	E



9

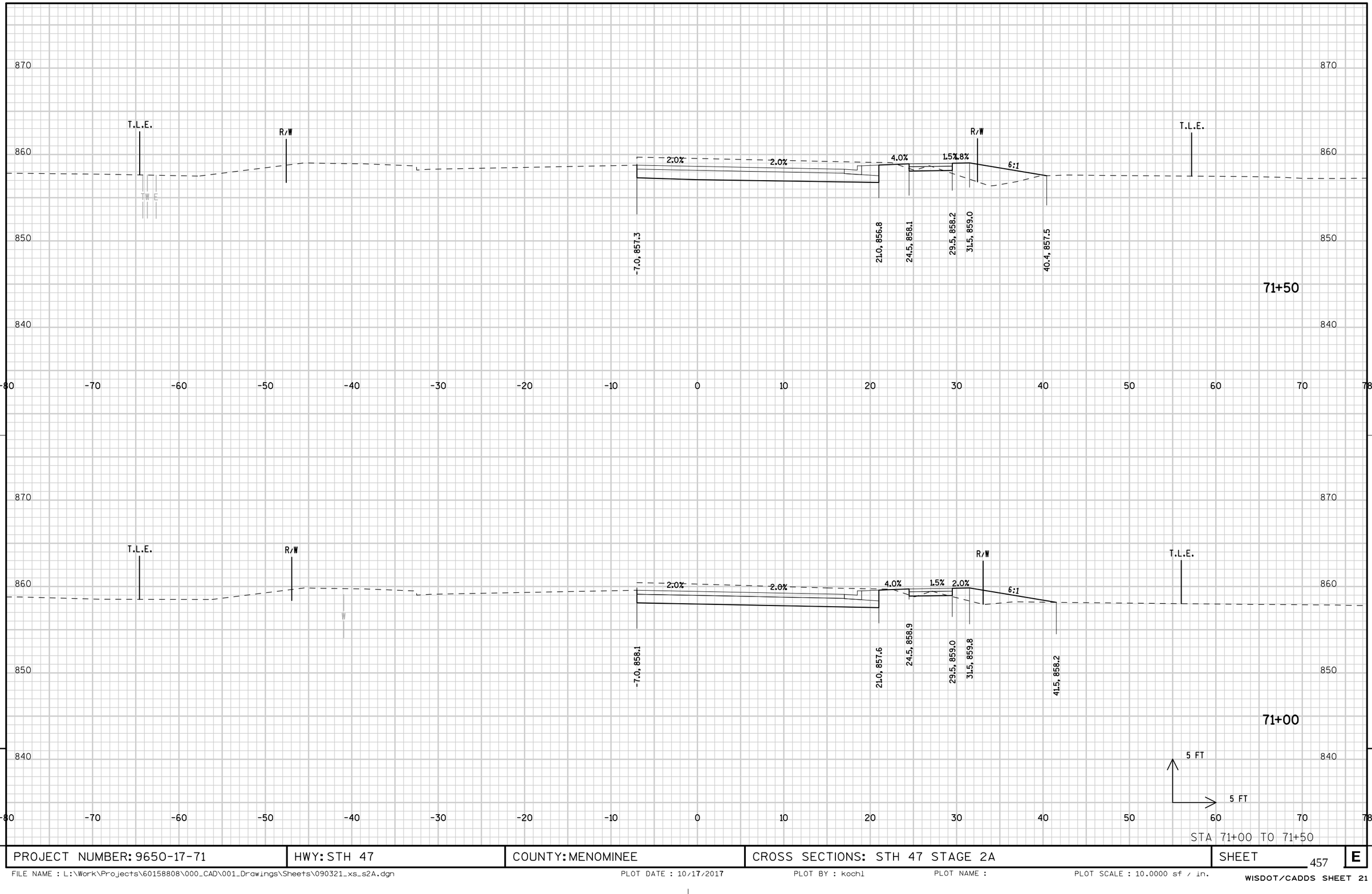
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STA 70+00 TO 70+50

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2A	SHEET 456	E

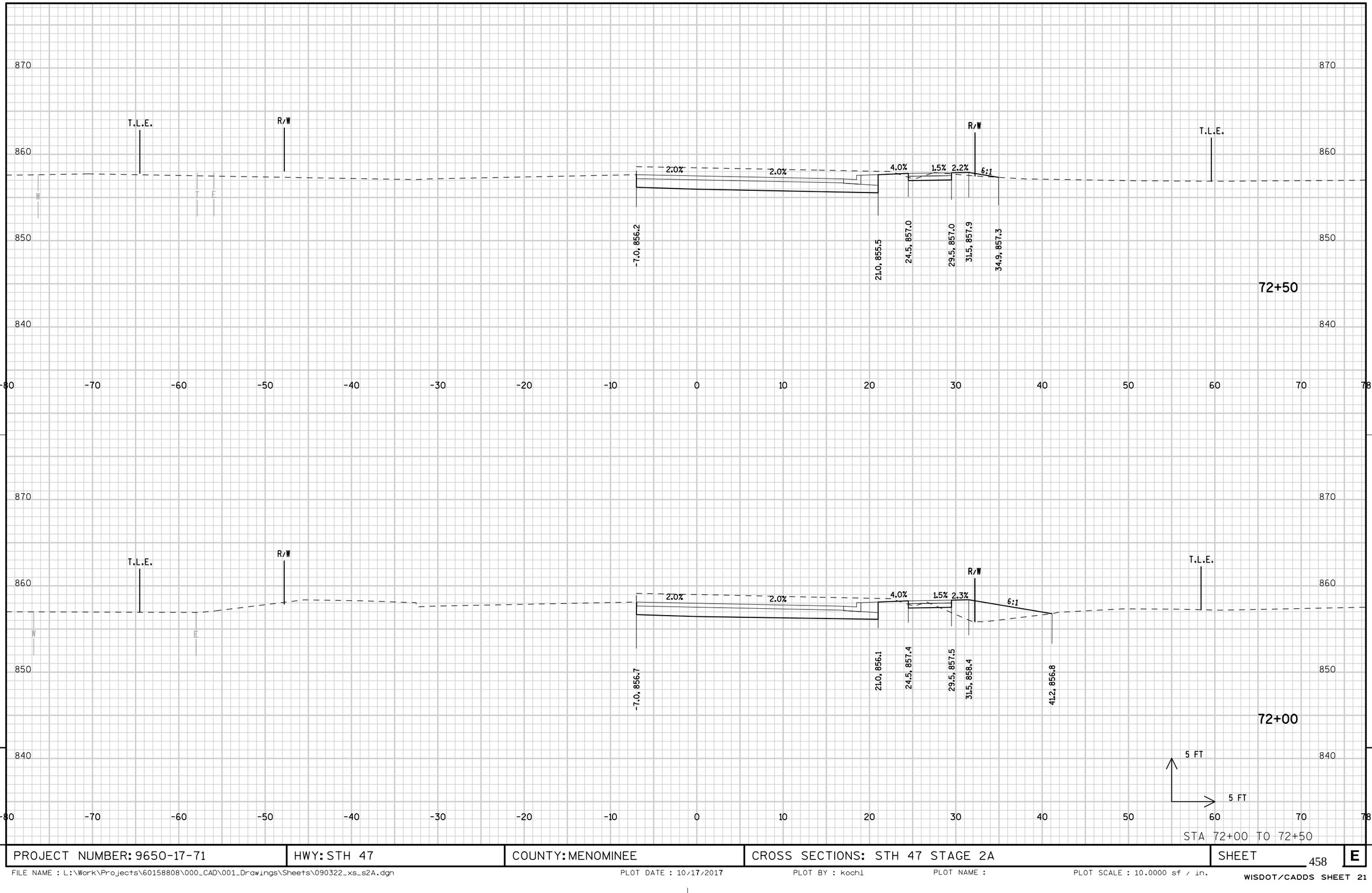
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WISDOT/CADDS SHEET 21



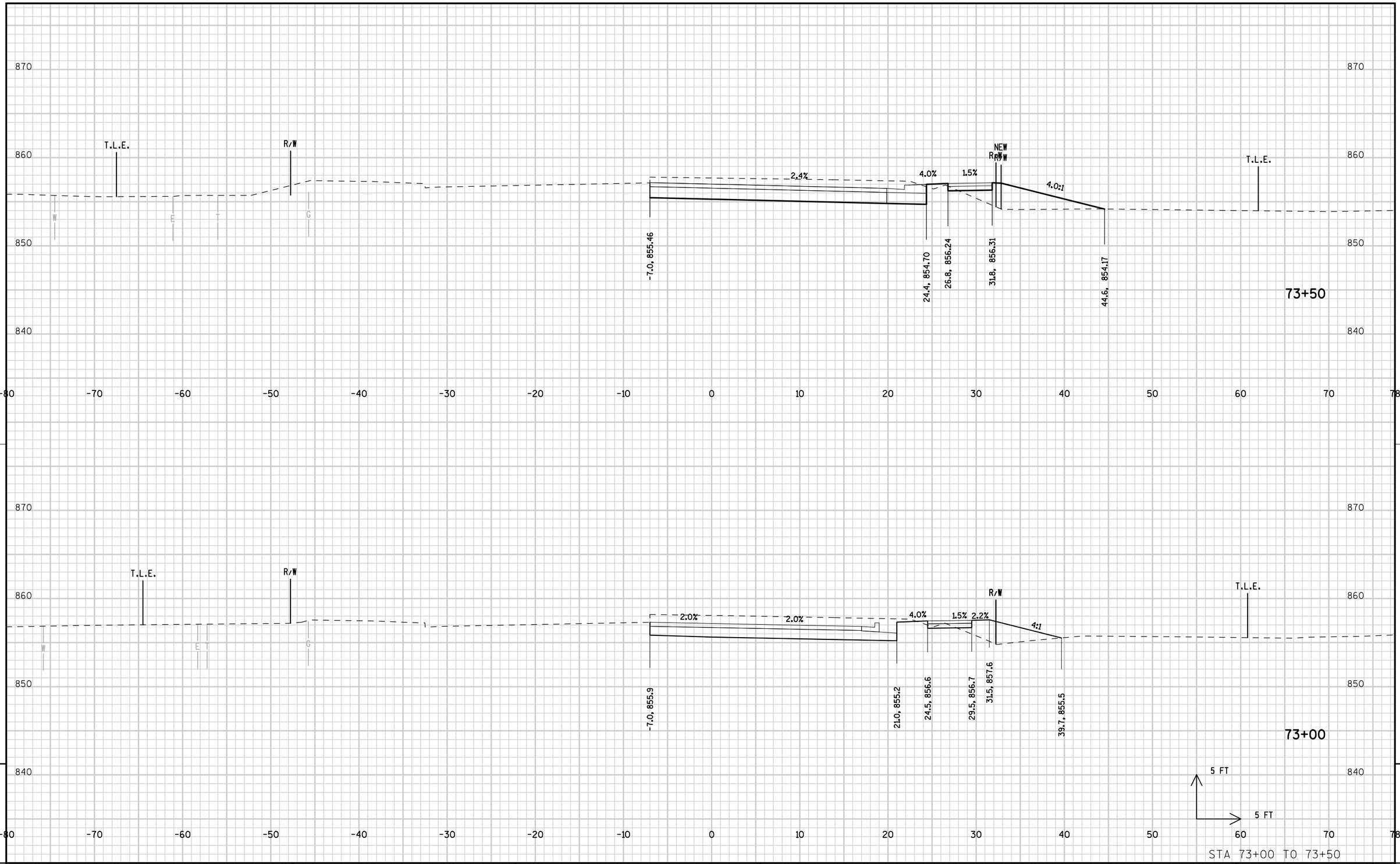
STA 71+00 TO 71+50

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2A	SHEET 457	E



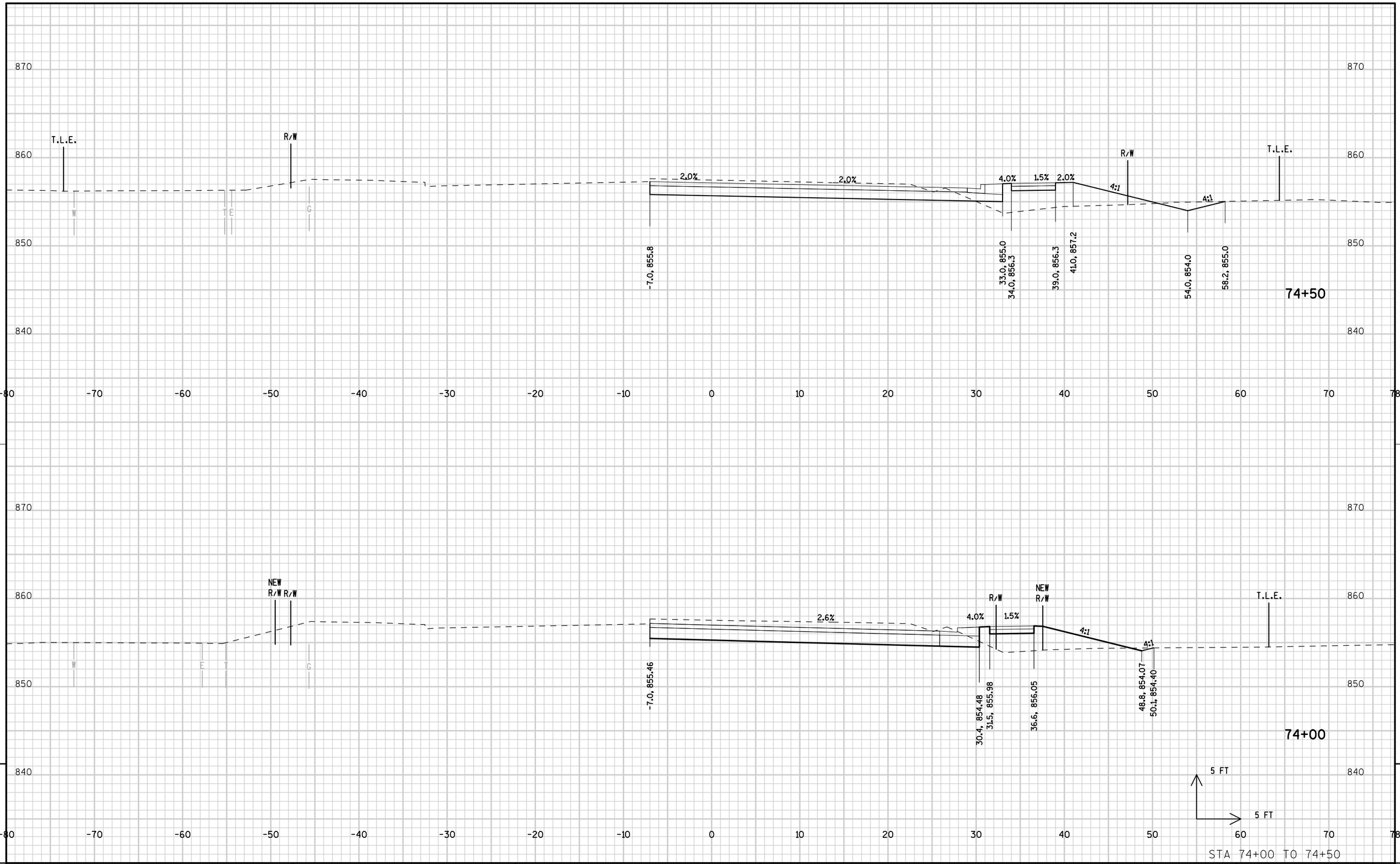
STA 72+00 TO 72+50

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2A	SHEET 458	E

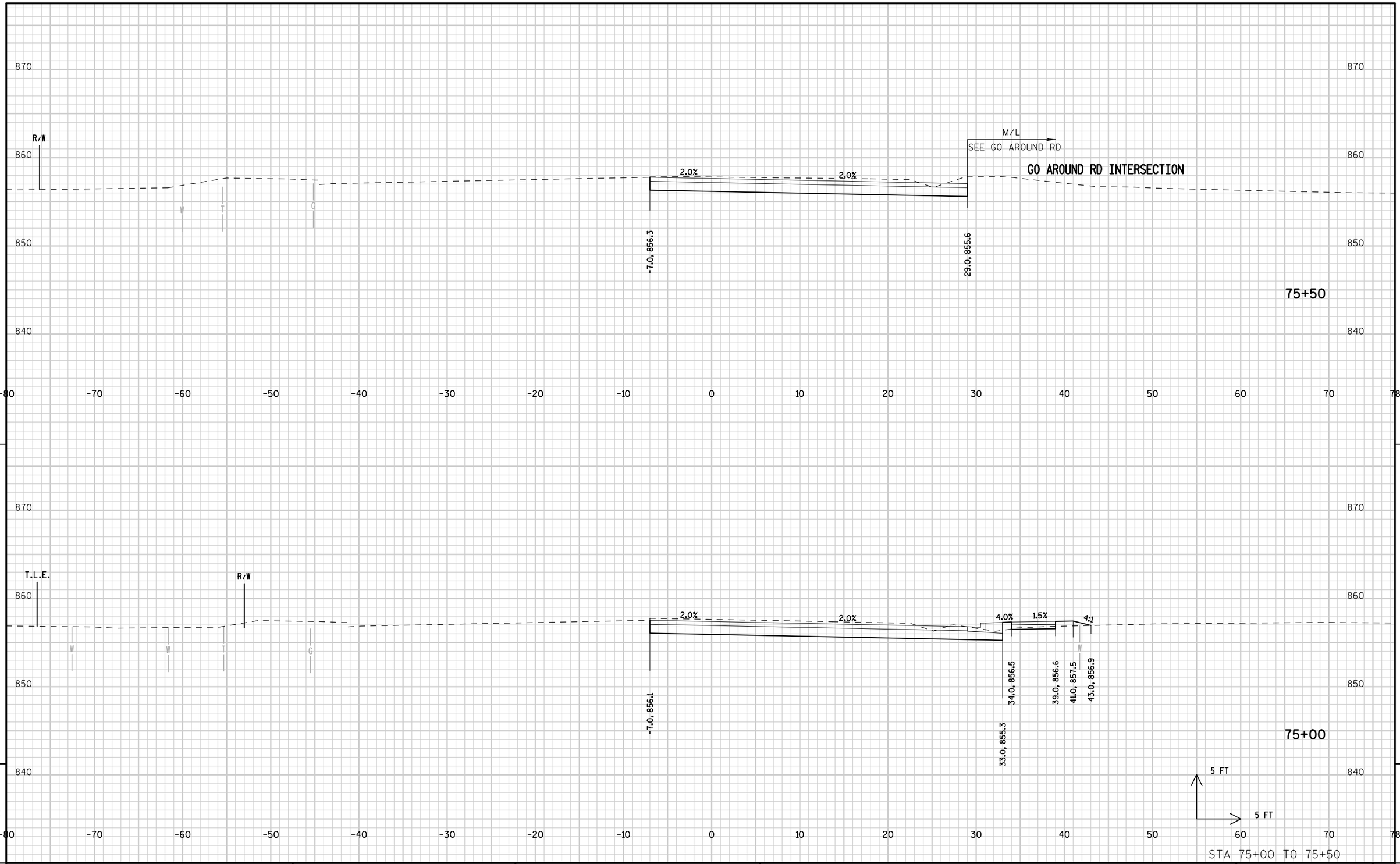


STA 73+00 TO 73+50

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2A	SHEET 459	E



PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2A	SHEET 460	E



9

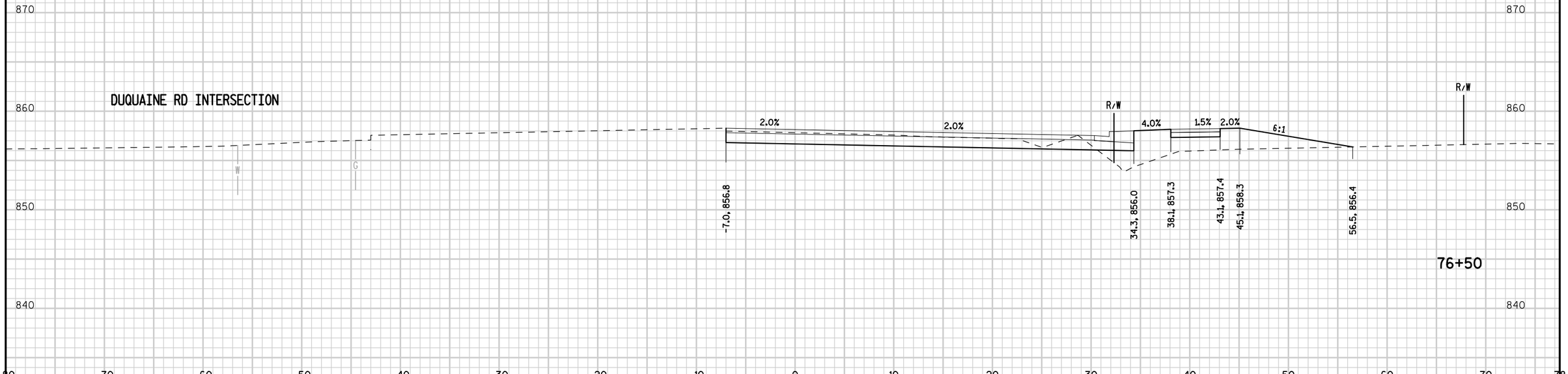
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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2A	SHEET 461	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090325_xs_s2A.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

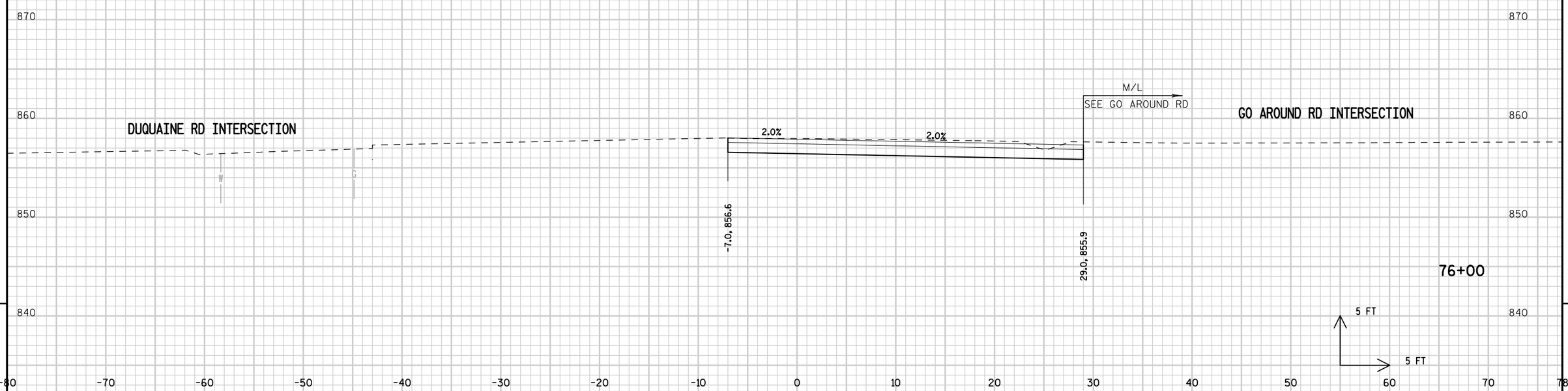
WISDOT/CADDS SHEET 21

DUQUAINE RD INTERSECTION



76+50

DUQUAINE RD INTERSECTION



GO AROUND RD INTERSECTION

76+00

5 FT

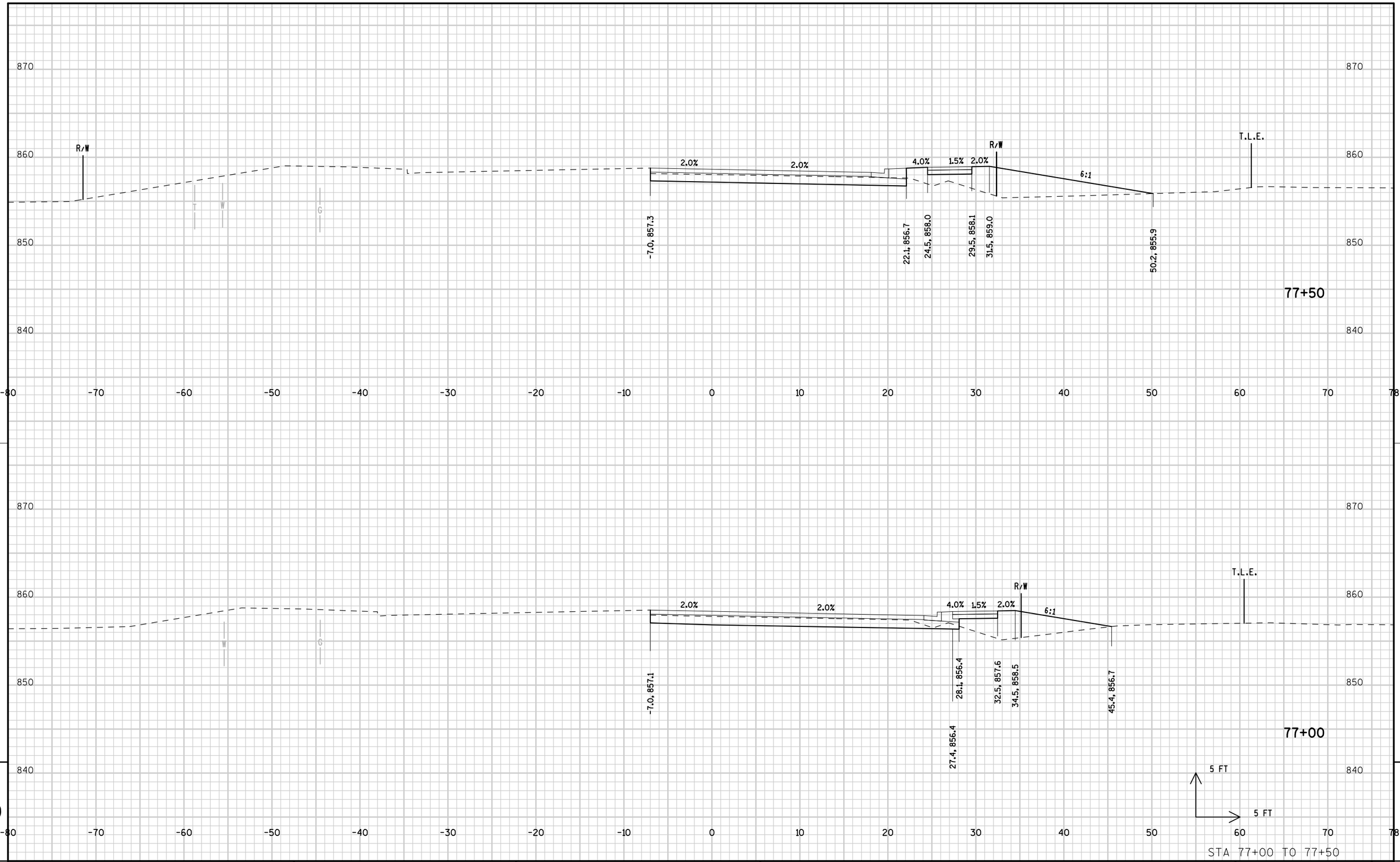
5 FT

STA 76+00 TO 76+50

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2A	SHEET 462	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090326_xs_s2A.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21

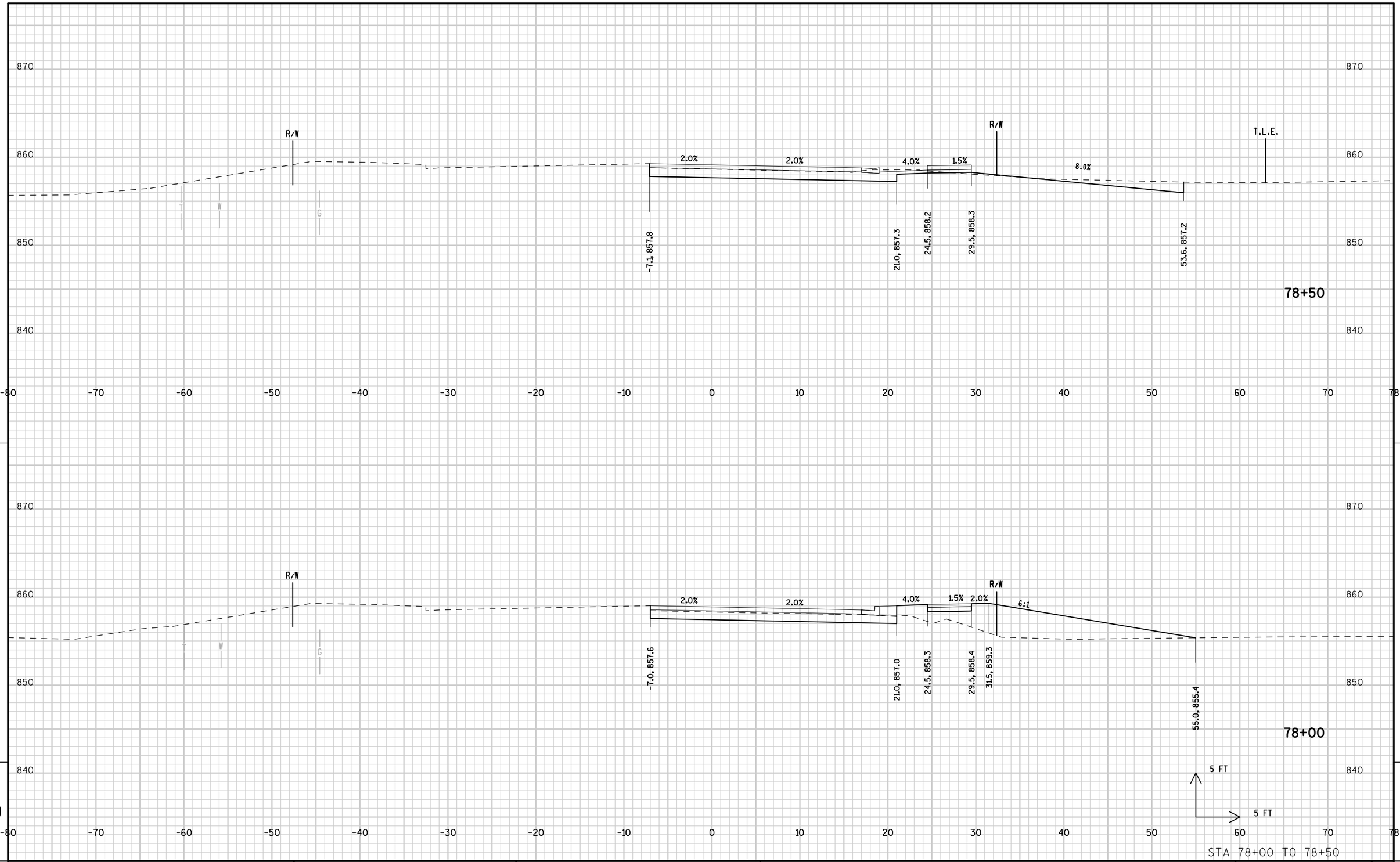


STA 77+00 TO 77+50

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2A	SHEET 463	E

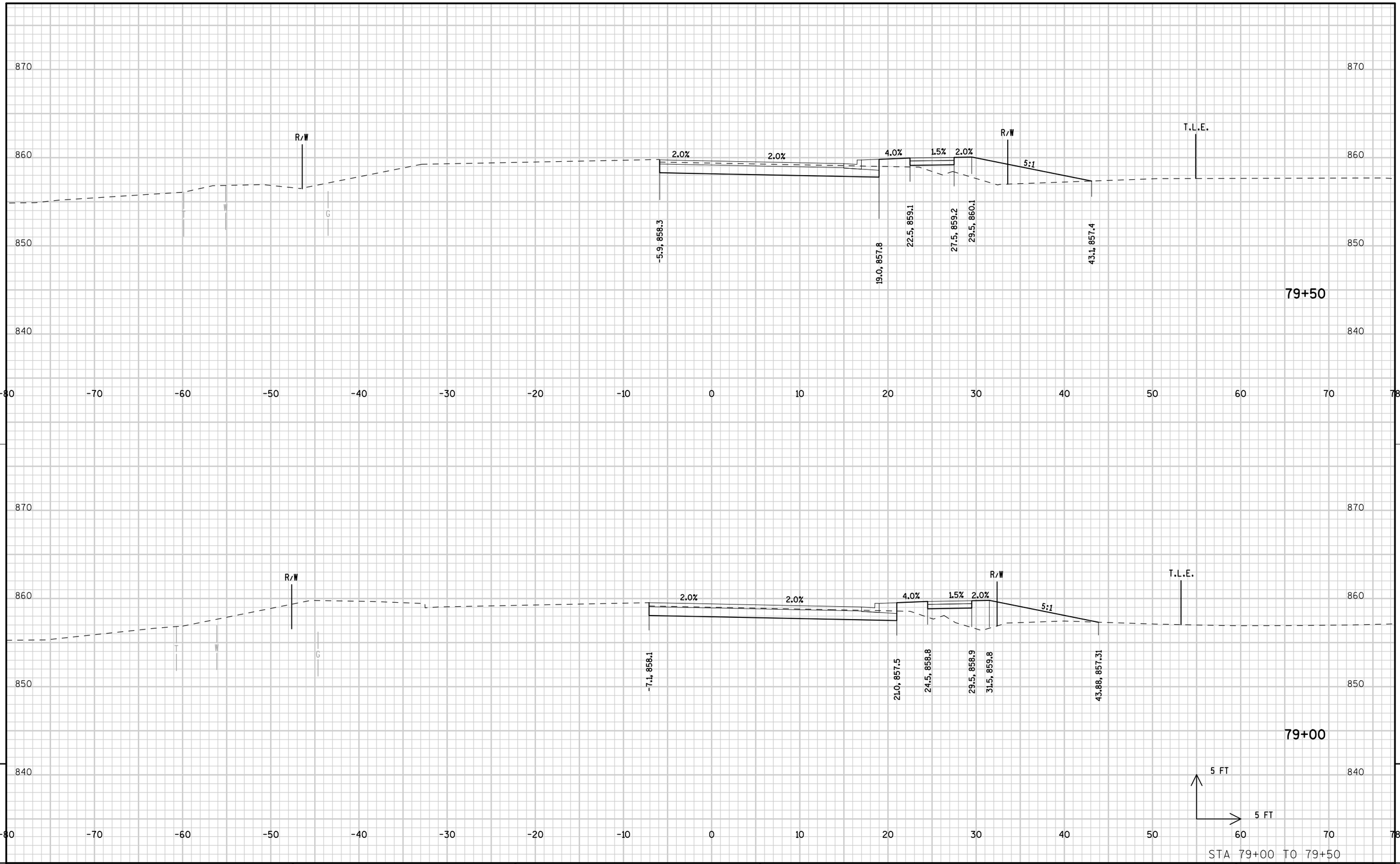
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WISDOT/CADDS SHEET 21



STA 78+00 TO 78+50

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2A	SHEET 464	E

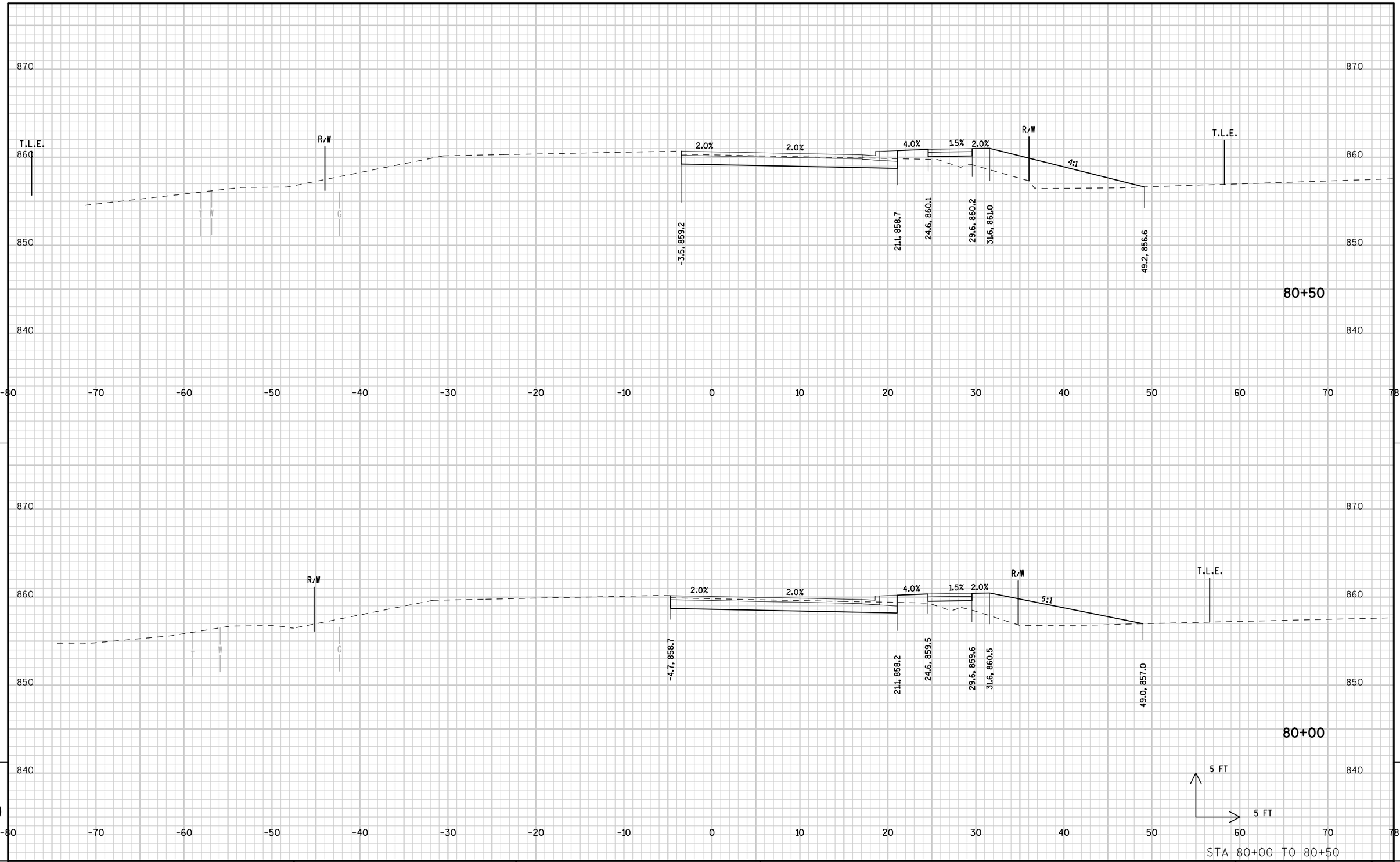


9

9

STA 79+00 TO 79+50

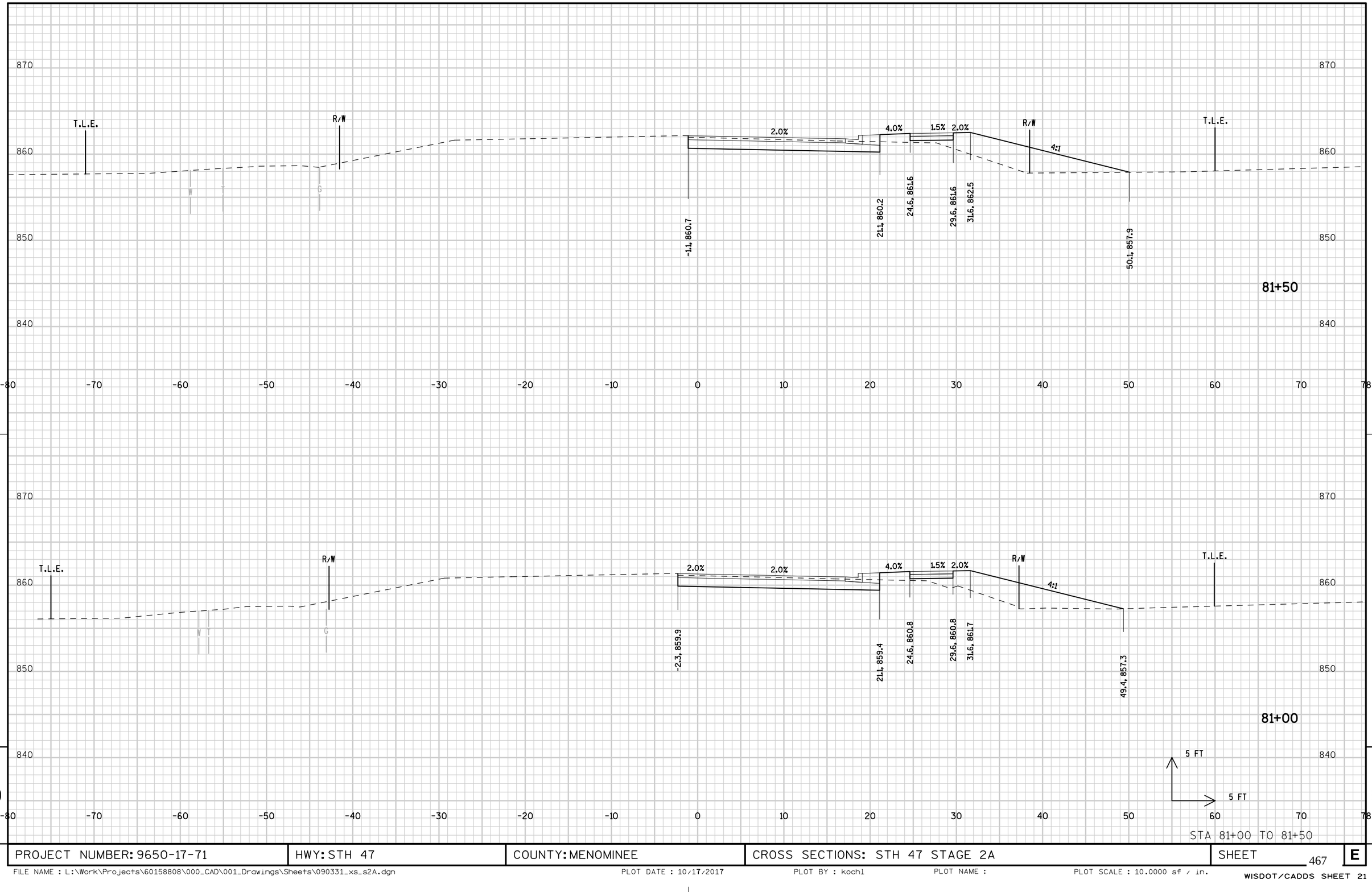
PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2A	SHEET 465	E



STA 80+00 TO 80+50

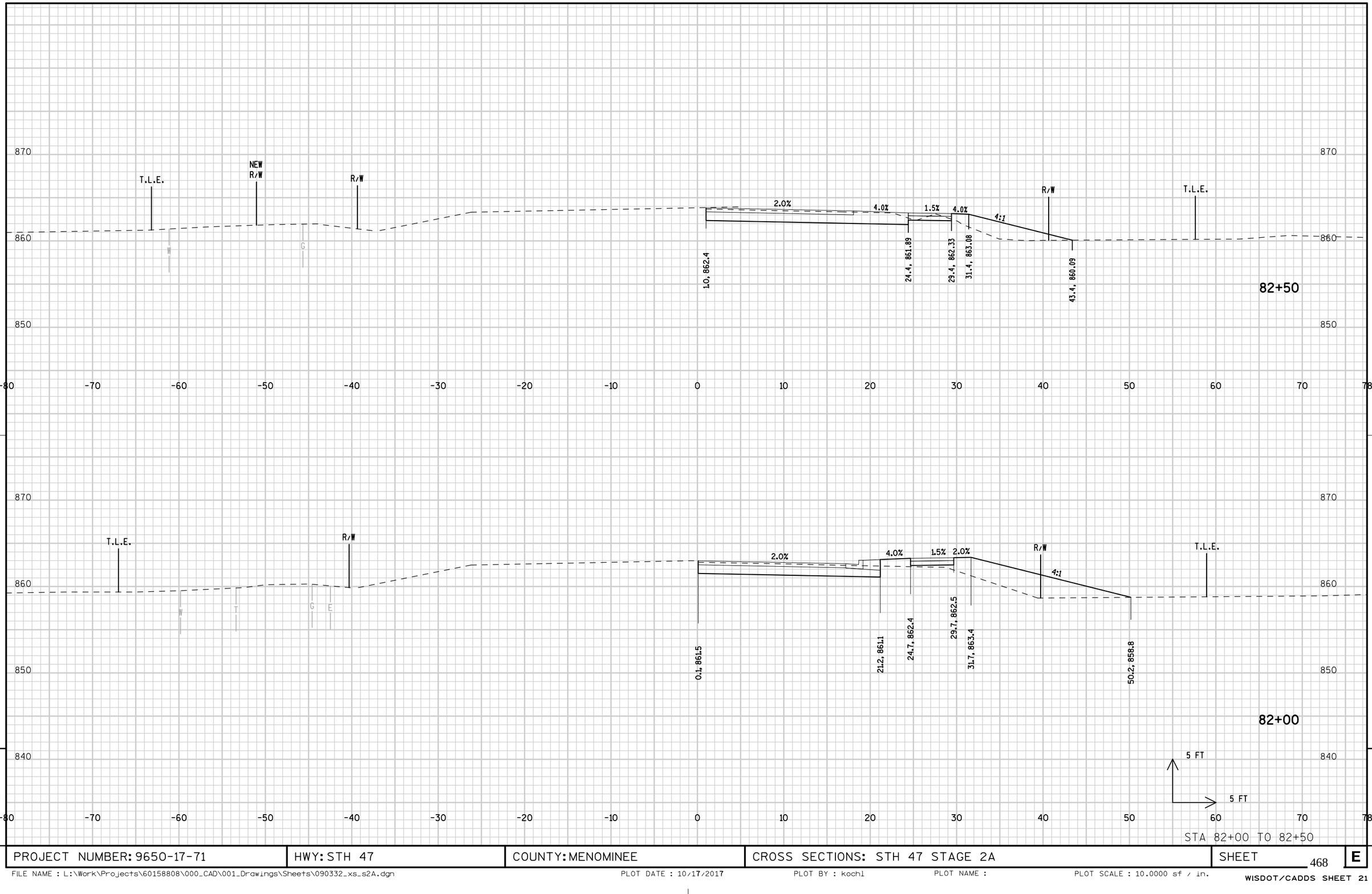
PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2A	SHEET	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090330_xs_s2A.dgn
PLOT DATE : 10/17/2017
PLOT BY : kochl
PLOT NAME :
PLOT SCALE : 10.0000 sf / in.
WISDOT/CADDS SHEET 21



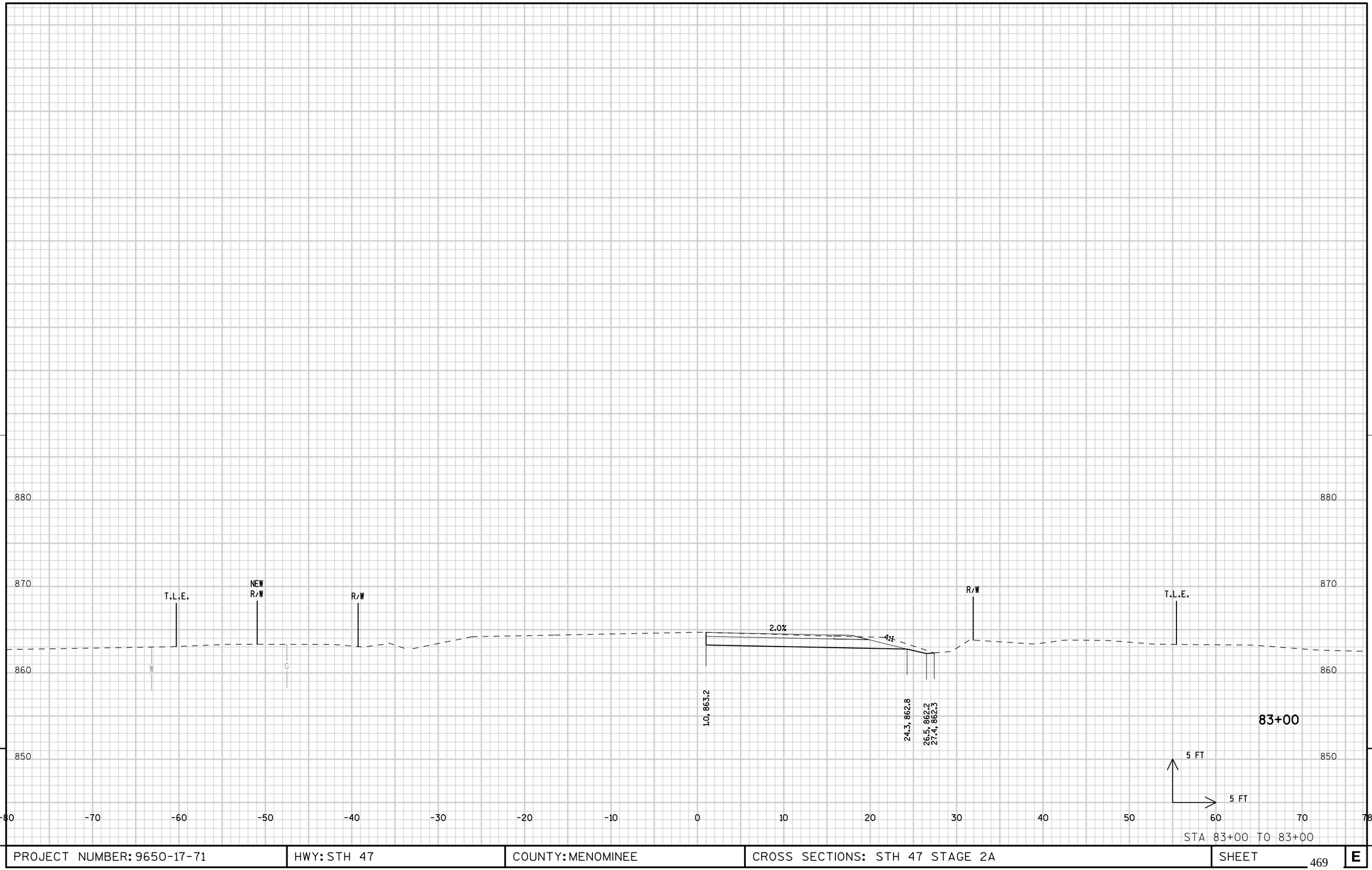
STA 81+00 TO 81+50

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2A	SHEET 467	E



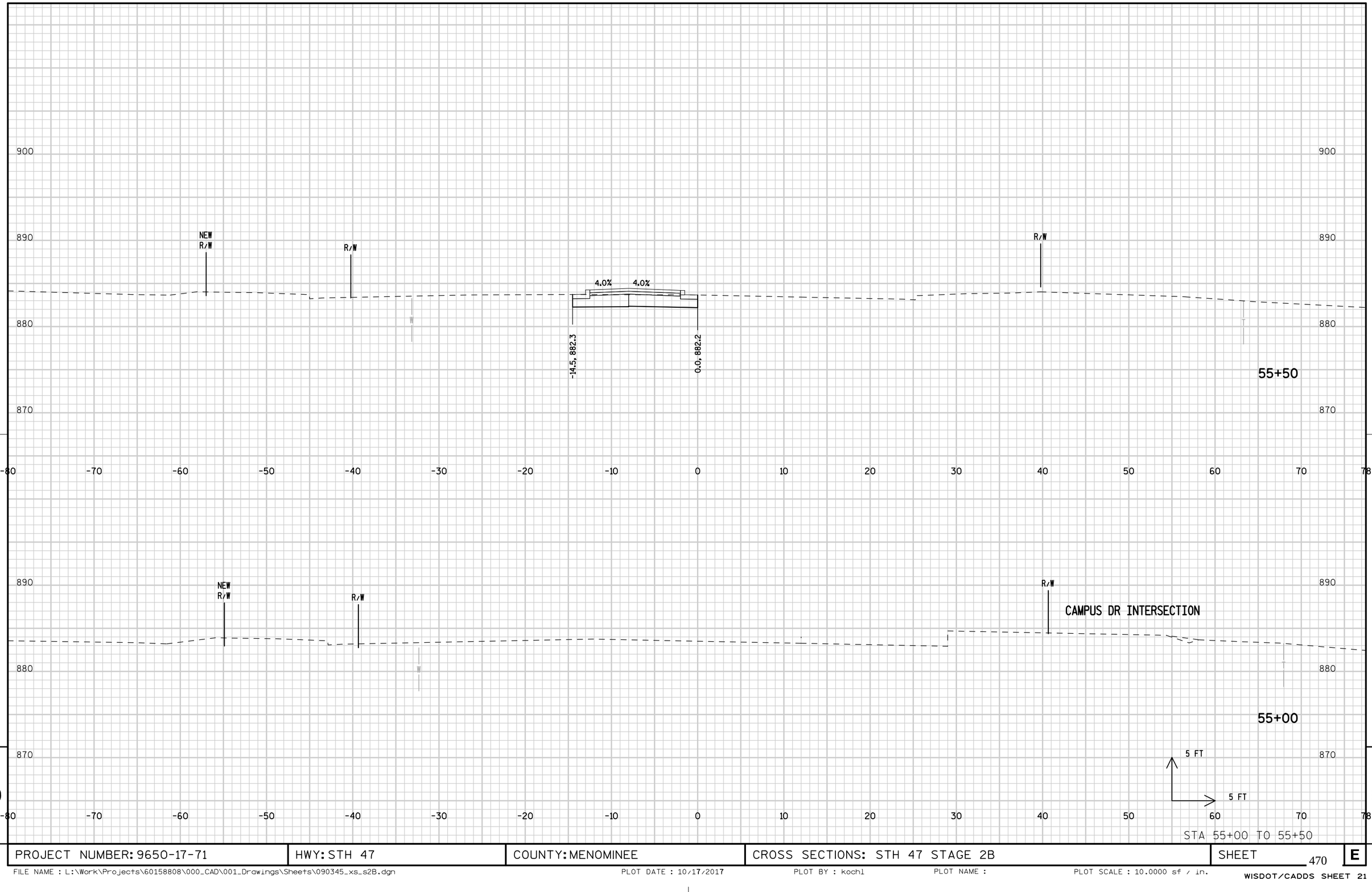
STA 82+00 TO 82+50

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2A	SHEET 468	E



STA 83+00 TO 83+00

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2A	SHEET 469	E

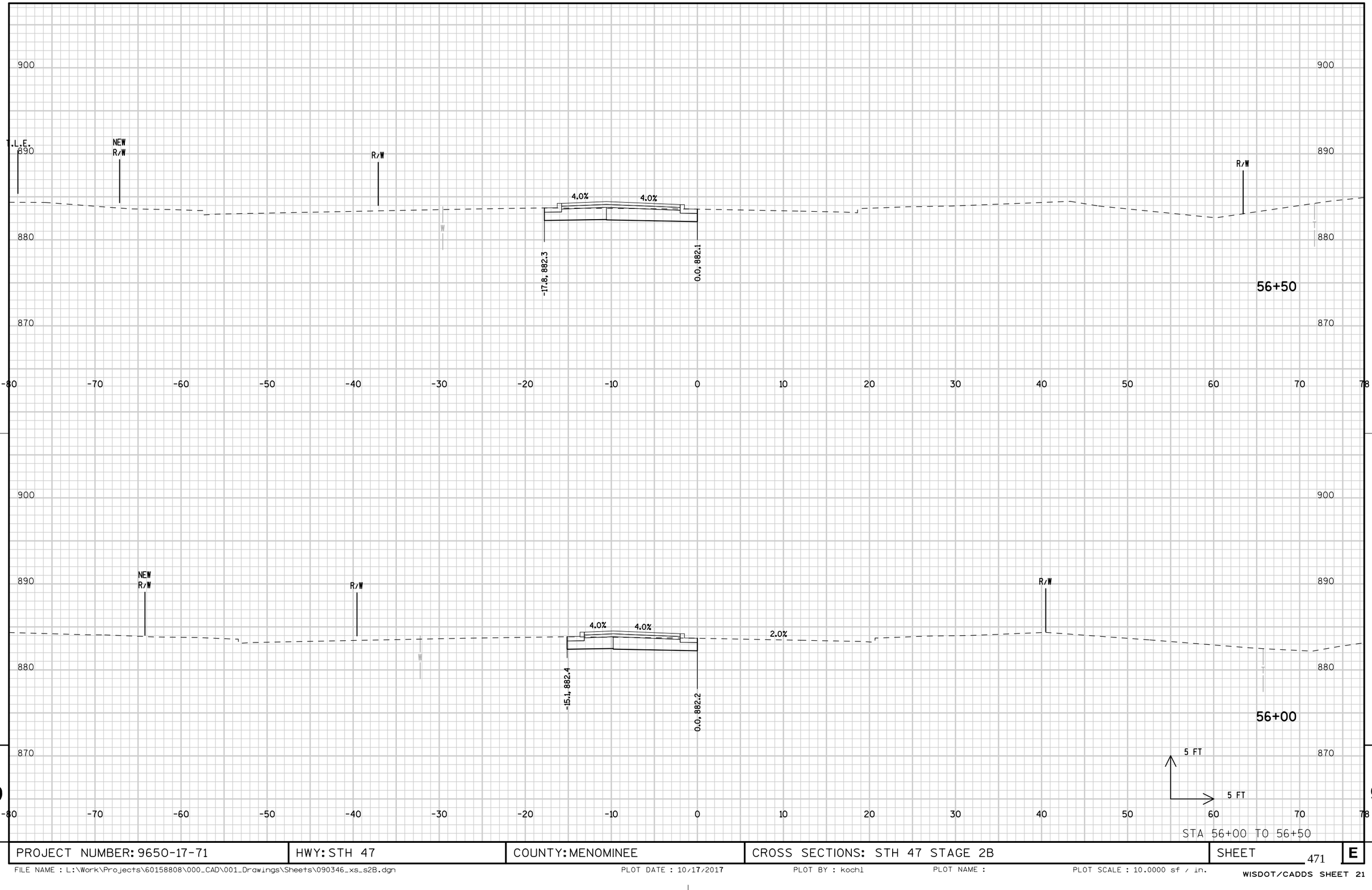


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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2B	SHEET 470	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090345_xs_s2B.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.



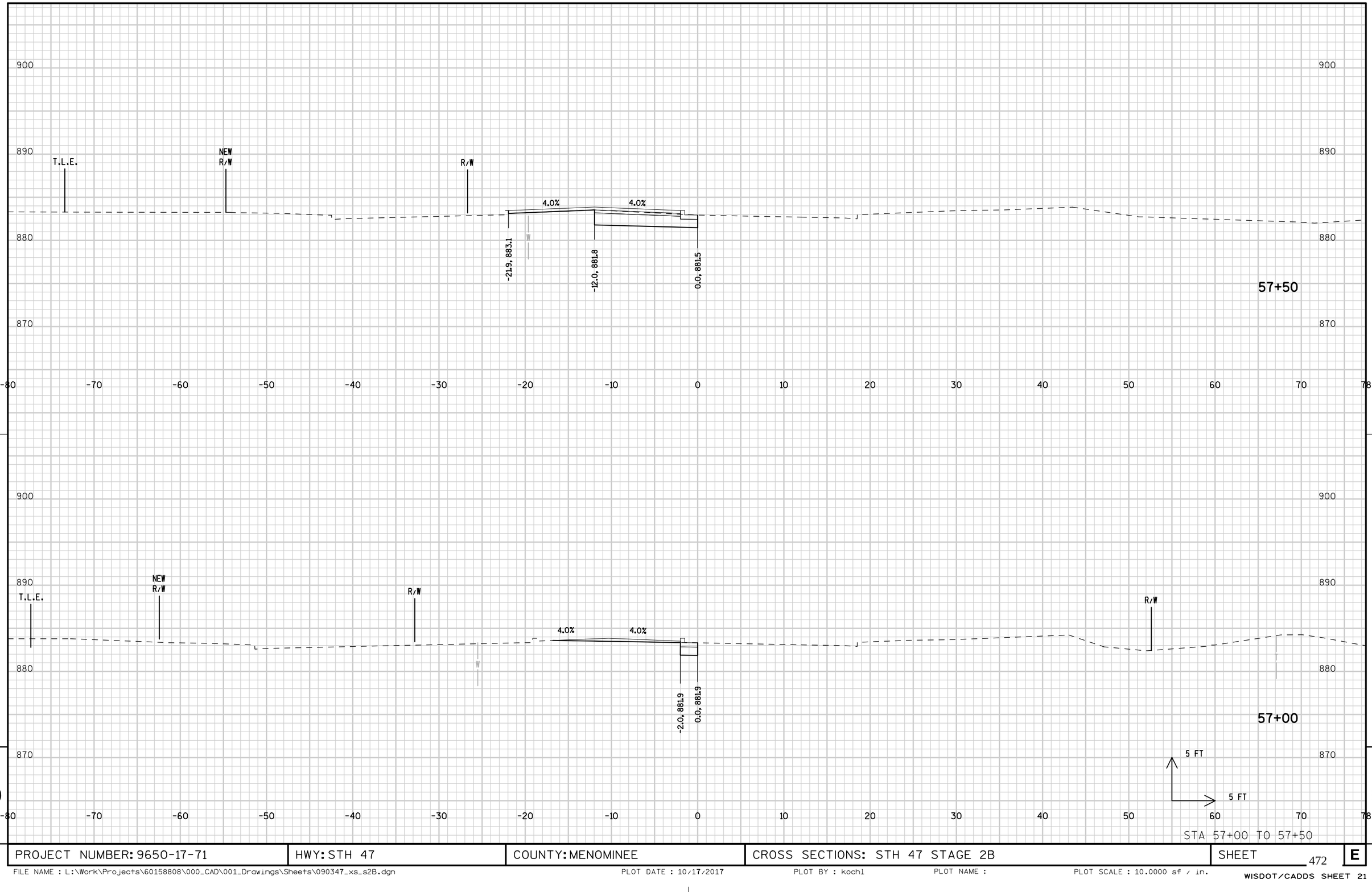
STA 56+00 TO 56+50

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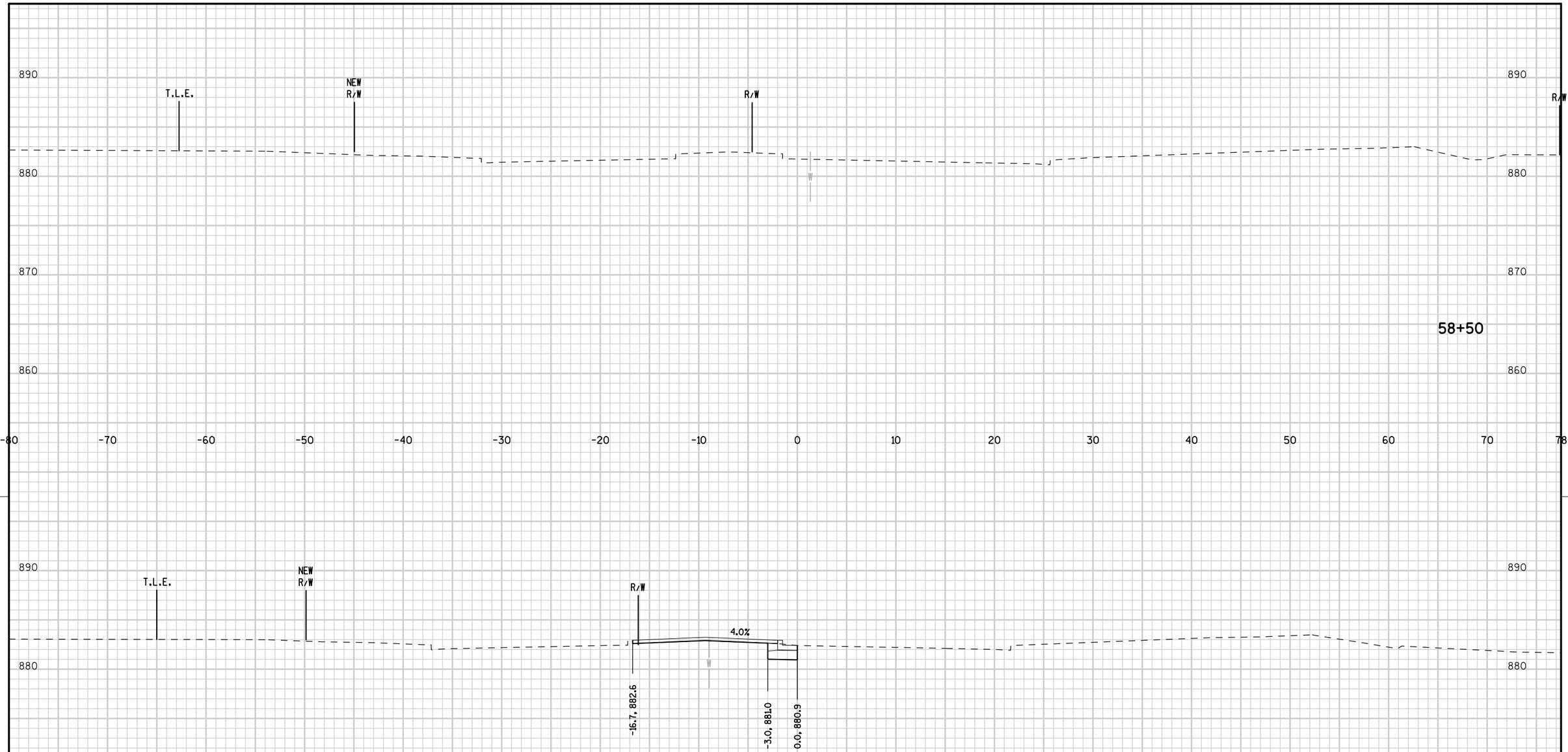
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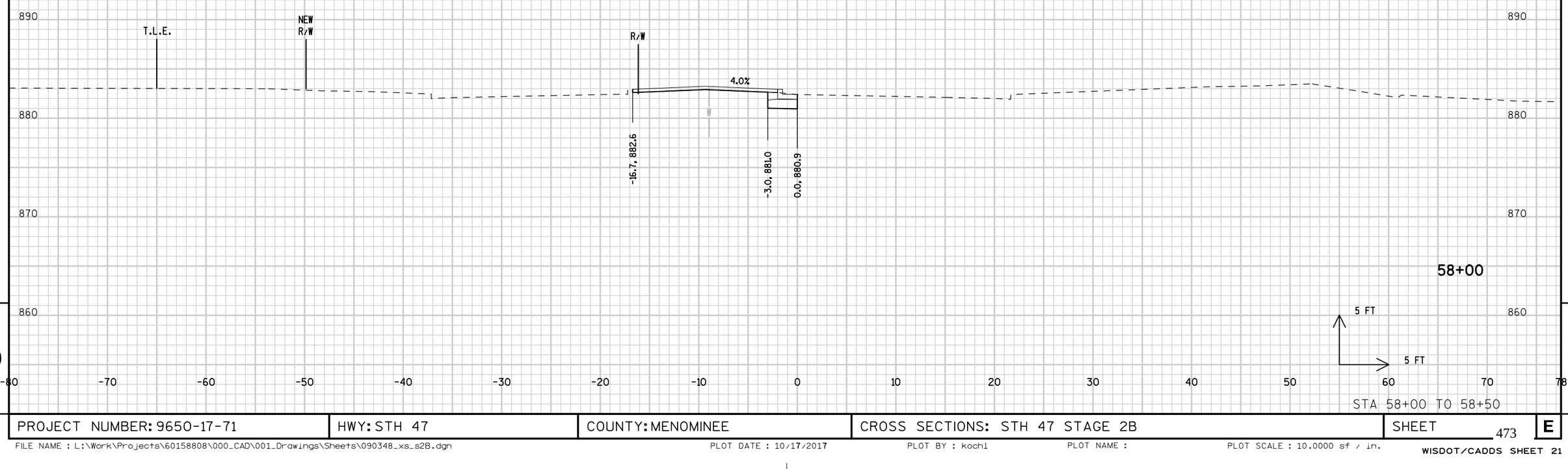
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STA 57+00 TO 57+50

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2B	SHEET 472	E

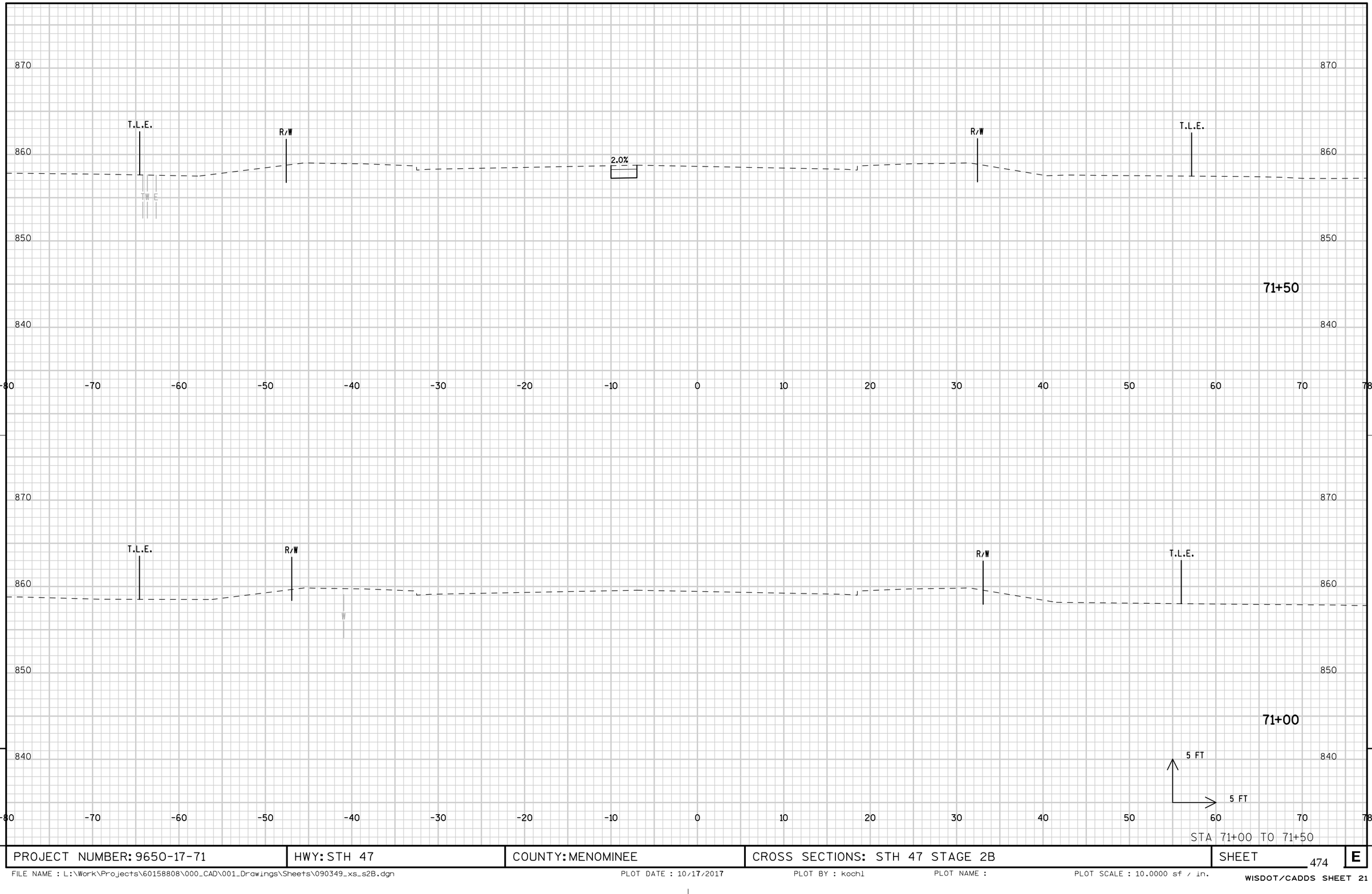




STA 58+00 TO 58+50

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2B	SHEET 473	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090348_xs_s2B.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.
WISDOT/CADDS SHEET 21



STA 71+00 TO 71+50

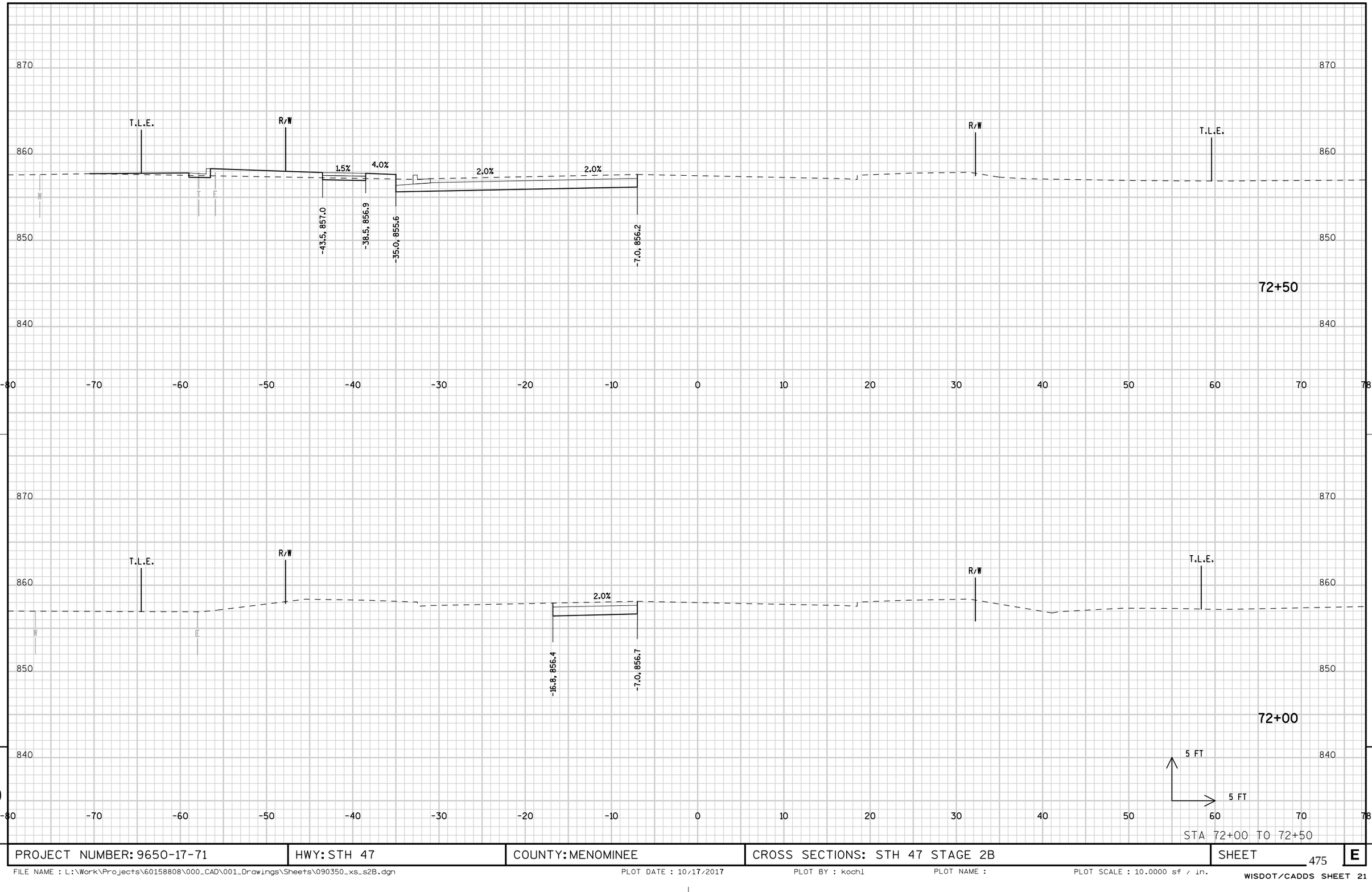
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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2B	SHEET 474	E

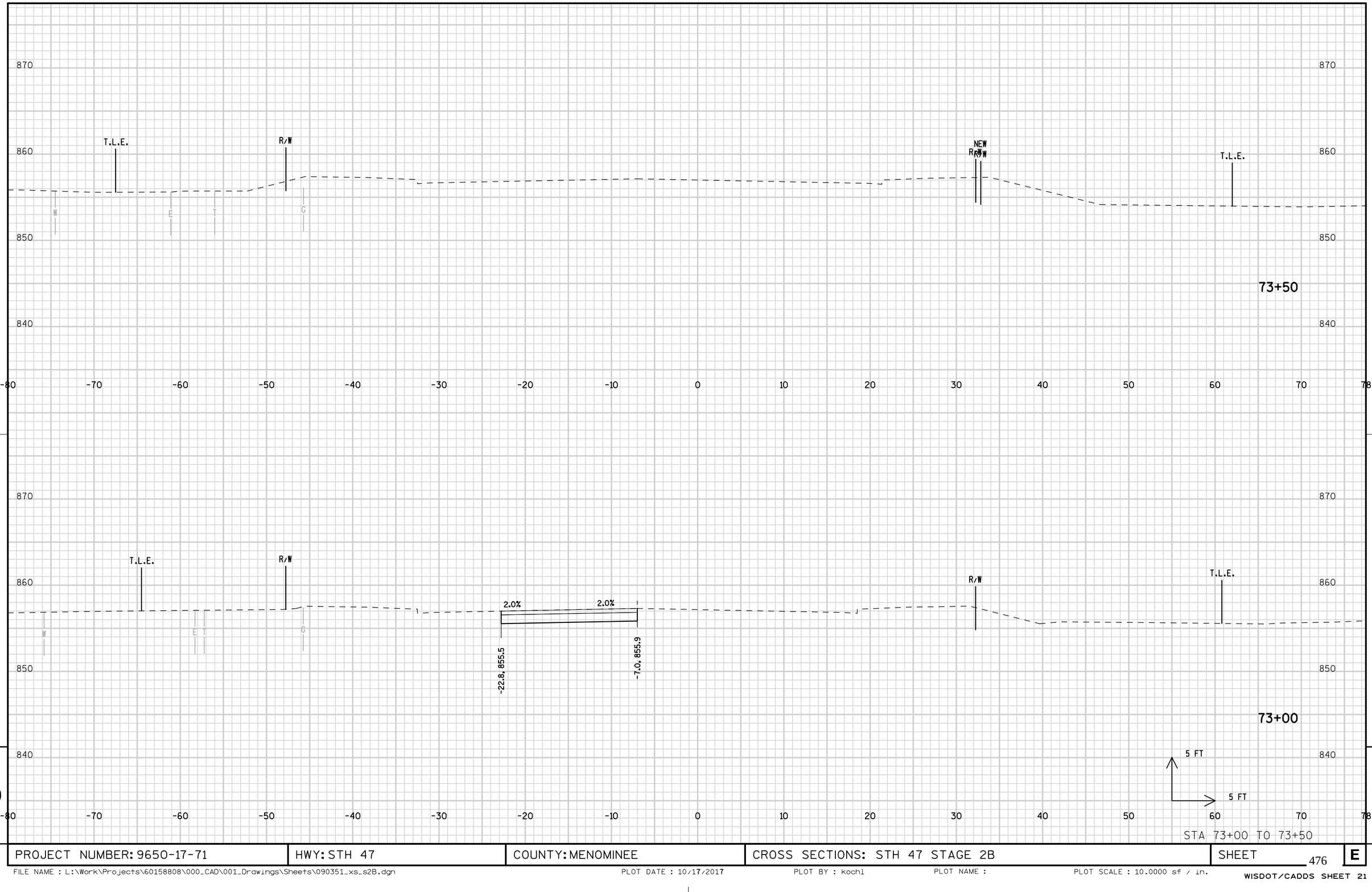
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WISDOT/CADDS SHEET 21



STA 72+00 TO 72+50

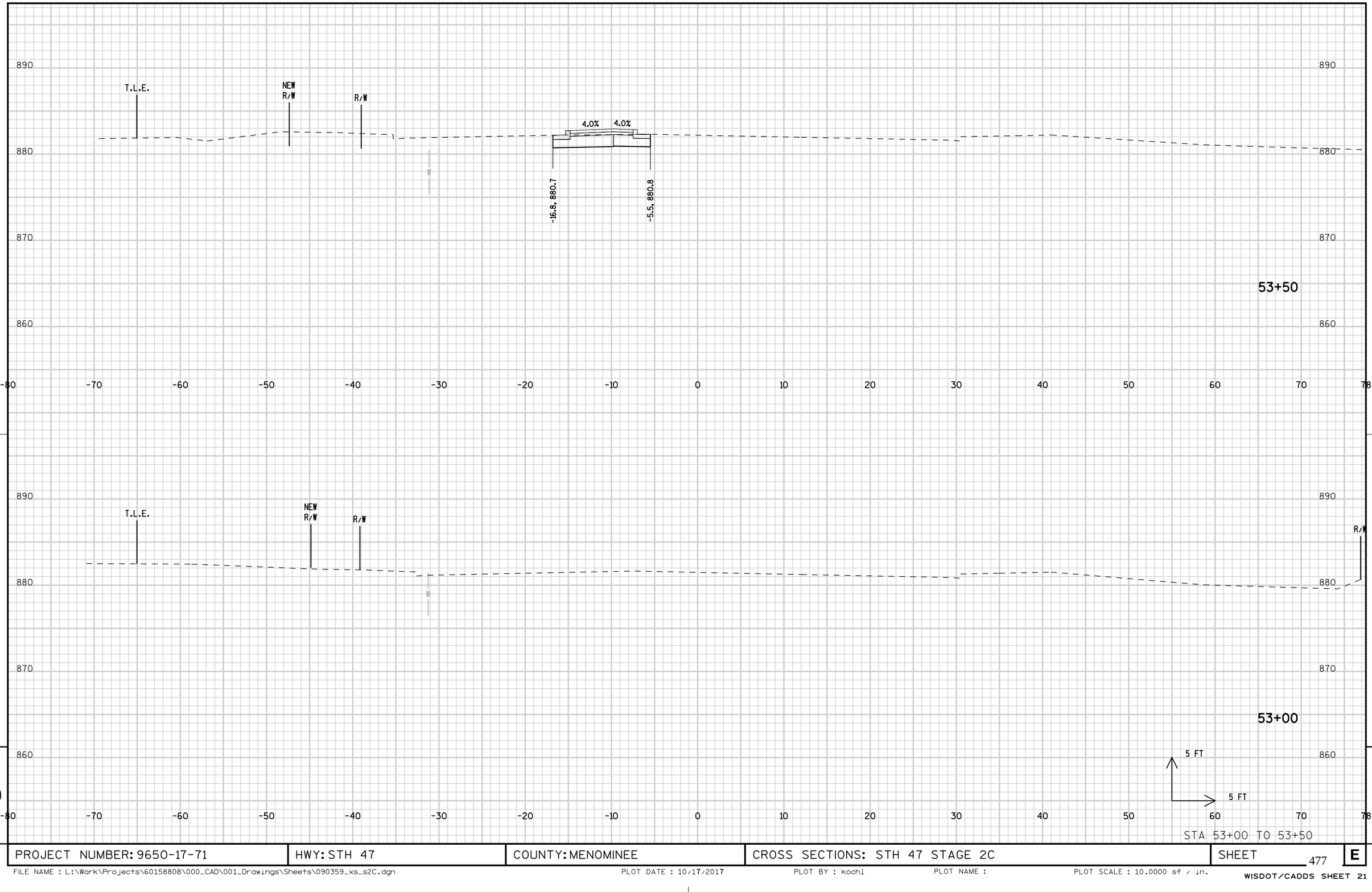
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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2B	SHEET 476	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090351_xs_s2B.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

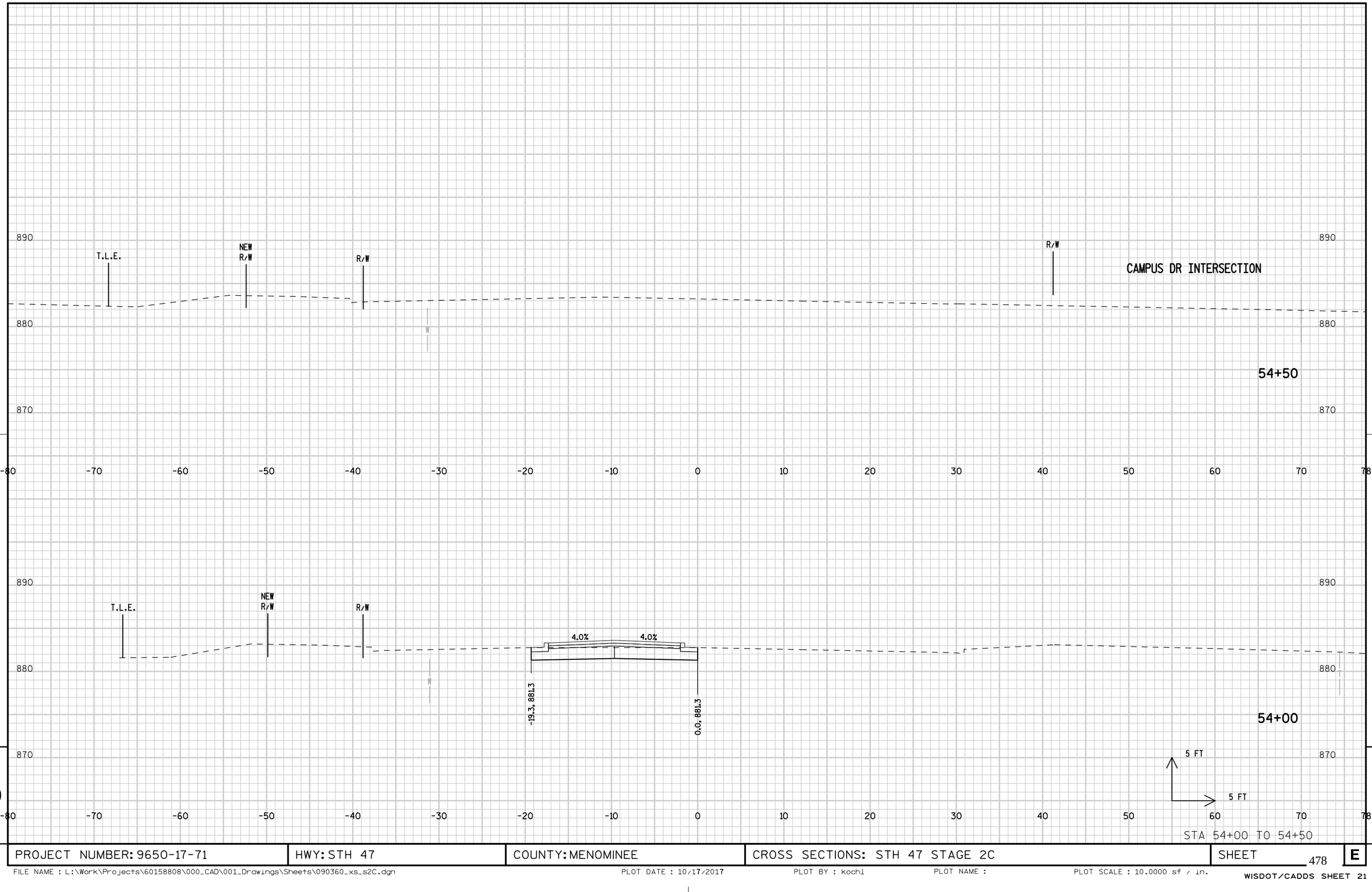
WISDOT/CADDS SHEET 21



PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2C	SHEET 477	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090359_xs_s2C.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21

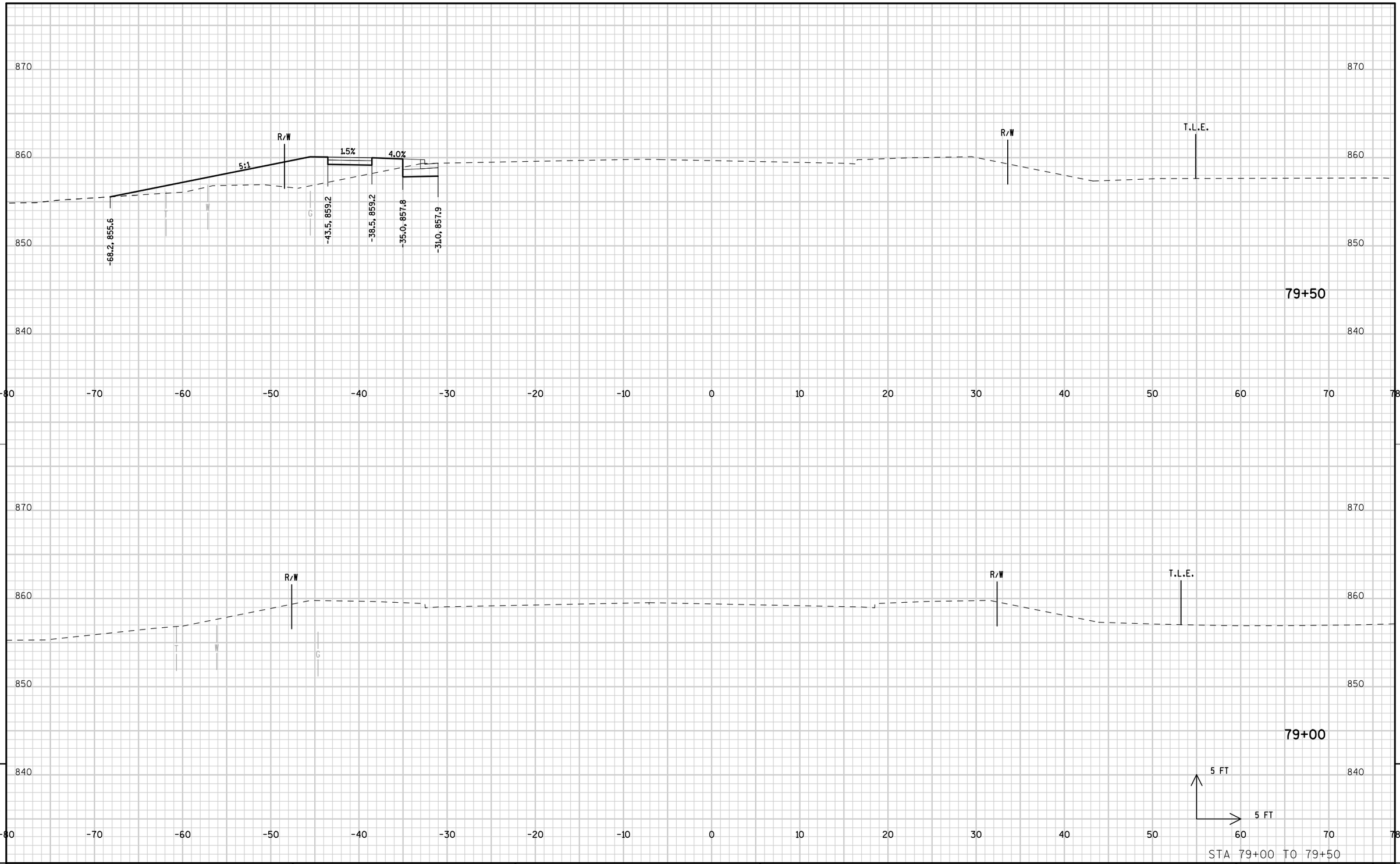


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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2C	SHEET 478	E

FILE NAME : L:\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090360_xs_s2C.dgn PLOT DATE : 10/17/2017 PLOT BY : kochl PLOT NAME : PLOT SCALE : 10.0000 sf / in.

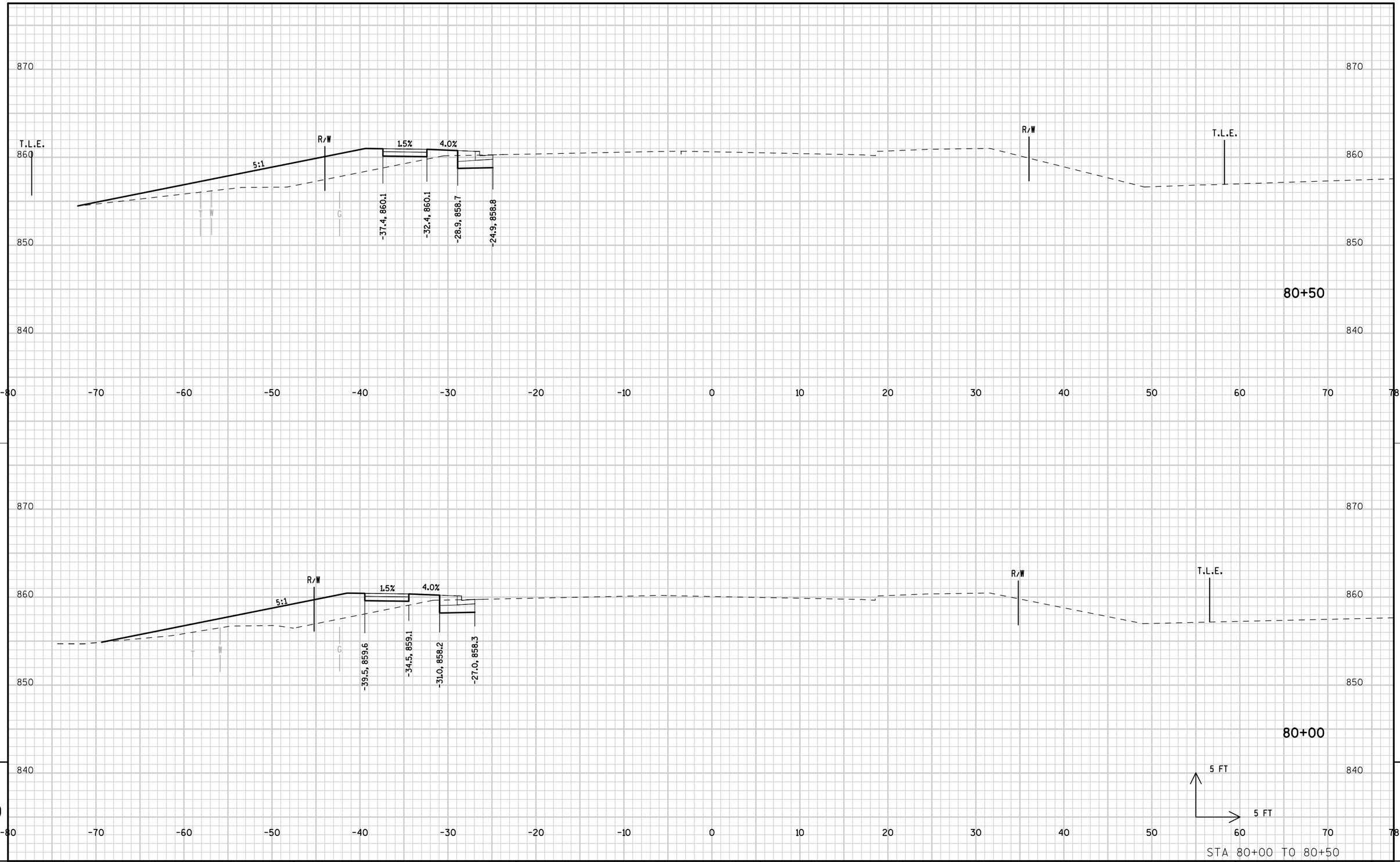


STA 79+00 TO 79+50

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2C	SHEET 479	E

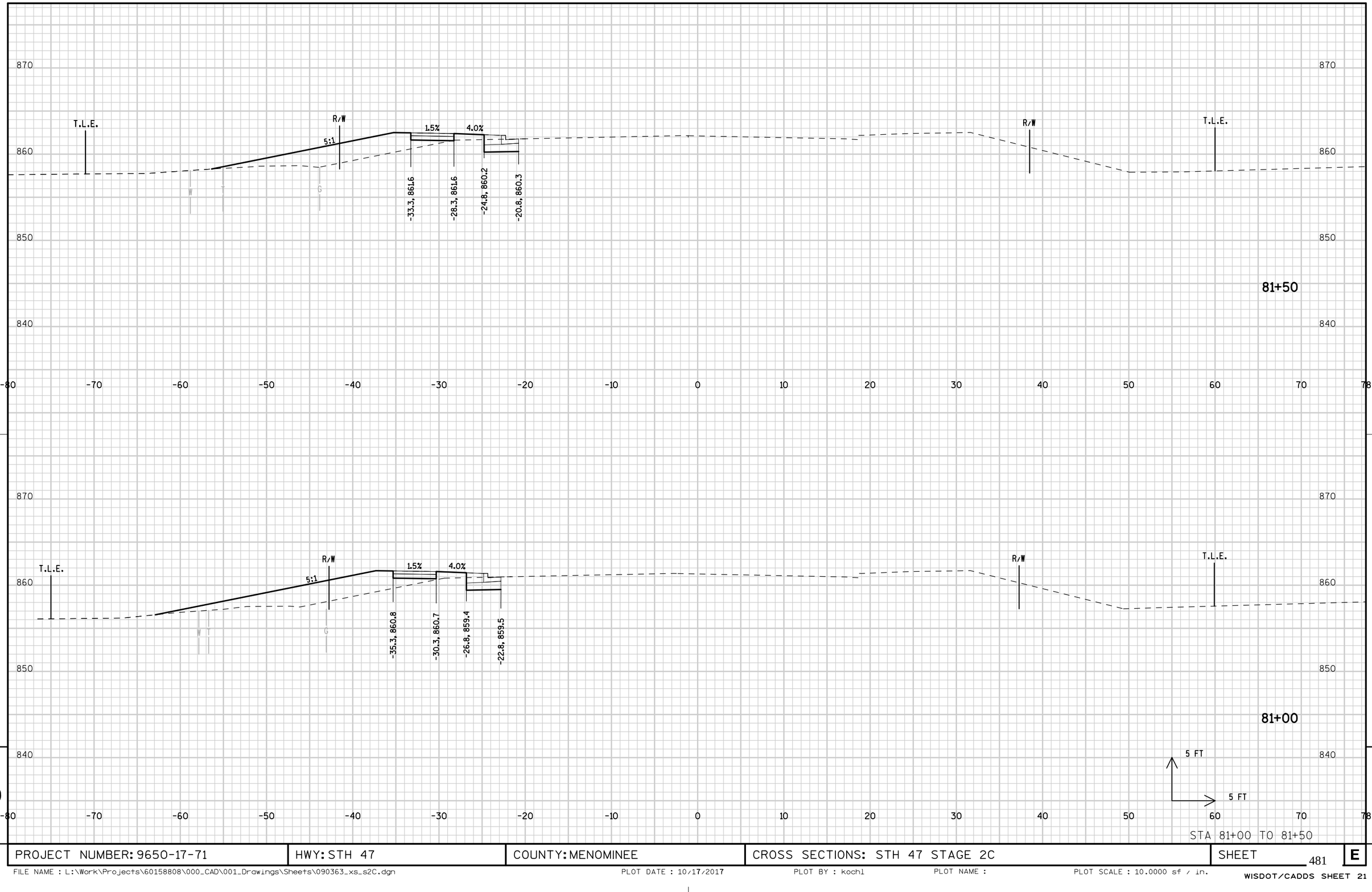
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WISDOT/CADDS SHEET 21



PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2C	SHEET 480	E

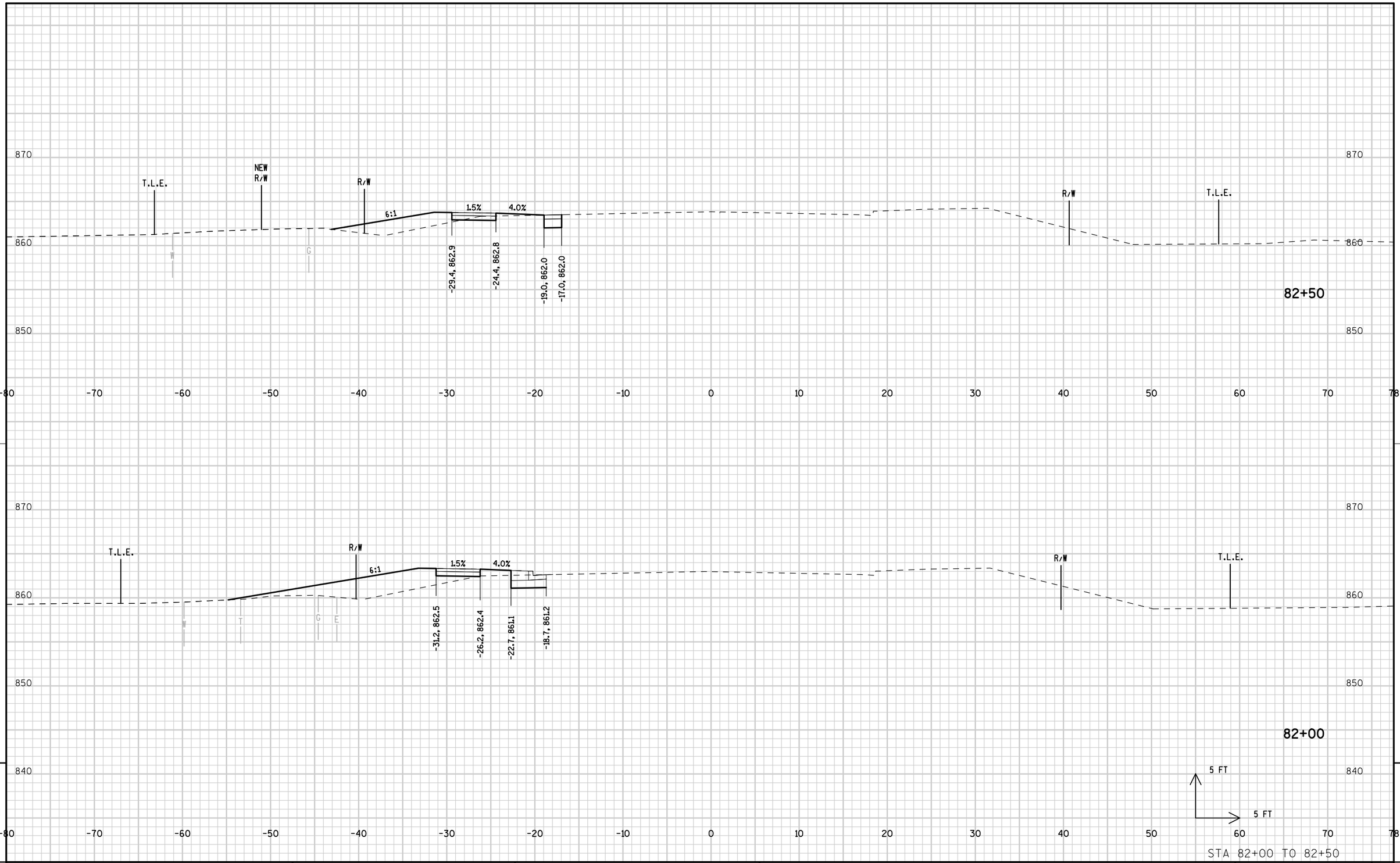
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WISDOT/CADDS SHEET 21



PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2C	SHEET 481	E

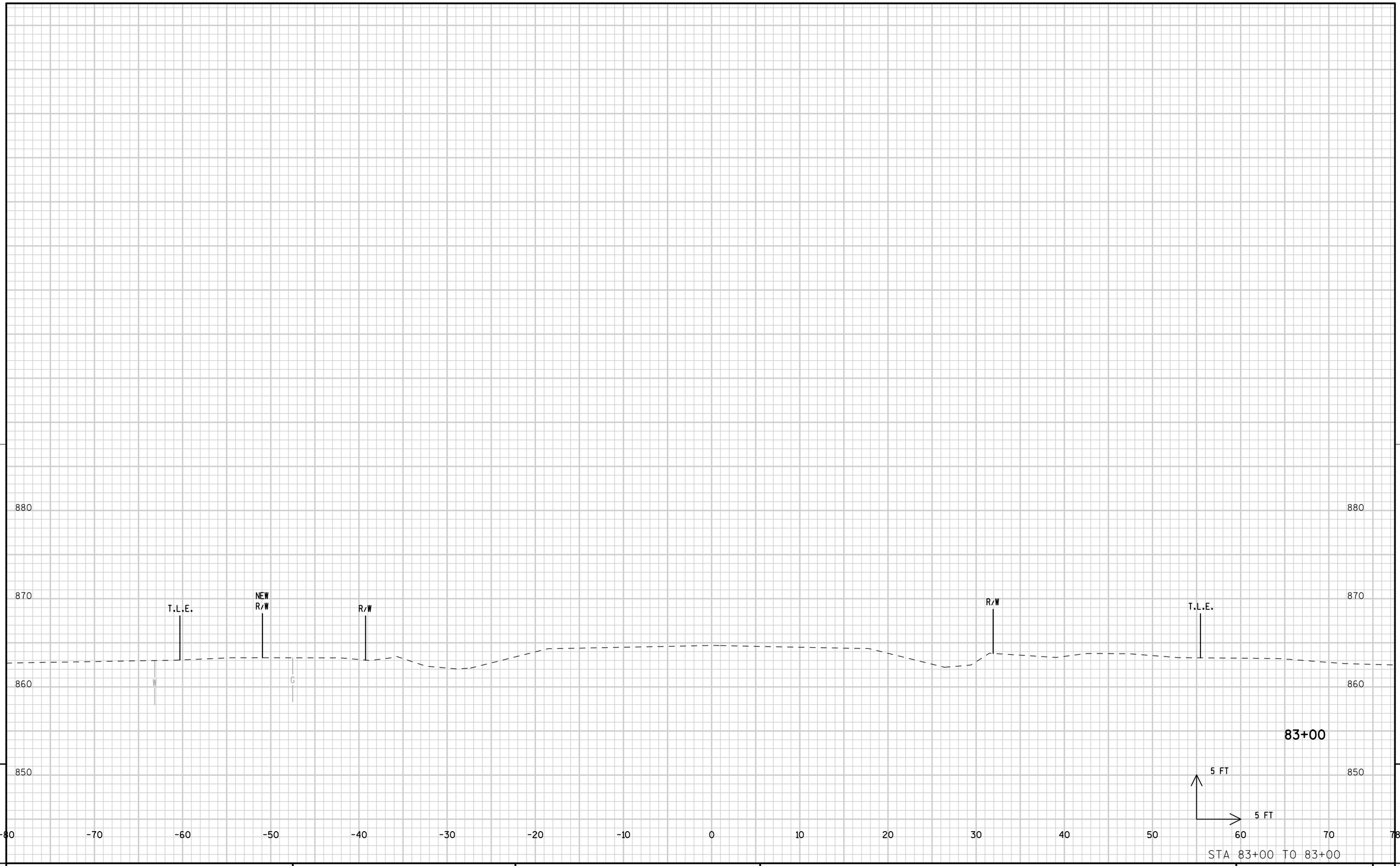
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WISDOT/CADDS SHEET 21



STA 82+00 TO 82+50

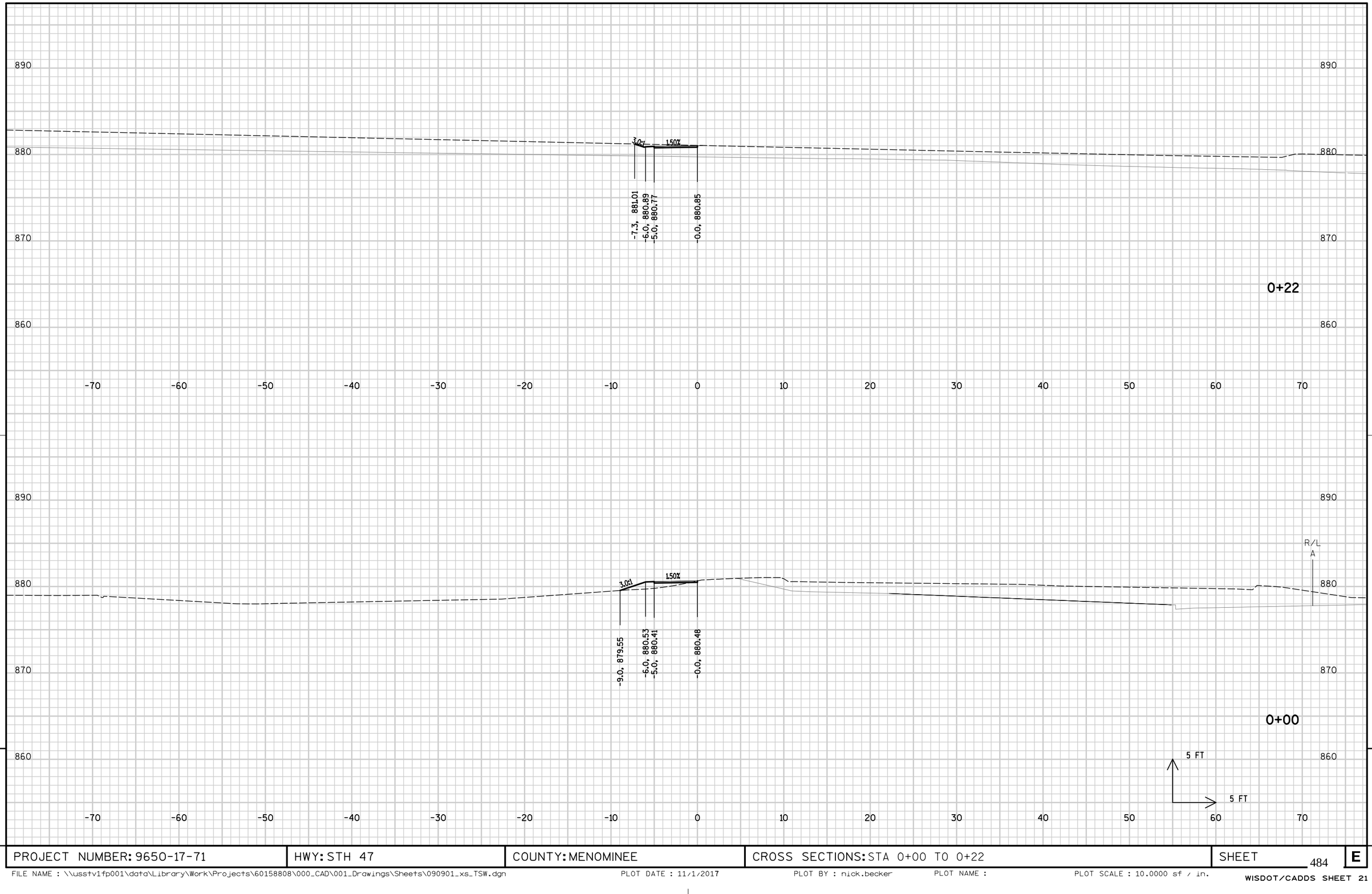
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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STH 47 STAGE 2C	SHEET 483	E



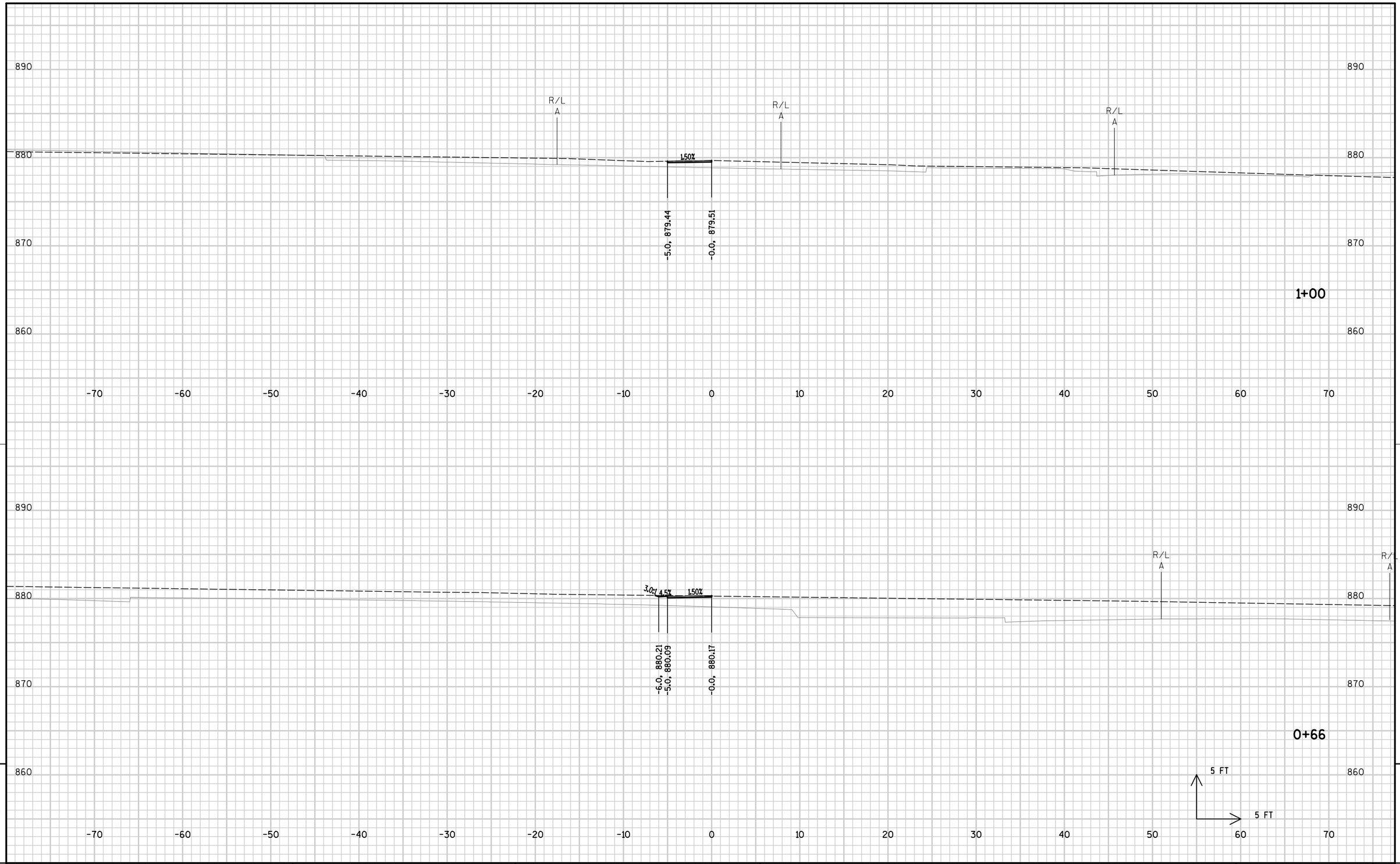
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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STA 0+00 TO 0+22	SHEET 484	E

FILE NAME : \\usstv1fp001\data\Library\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090901_xs_TSW.dgn PLOT DATE : 11/1/2017 PLOT BY : nick.becker PLOT NAME : PLOT SCALE : 10.0000 sf / in.

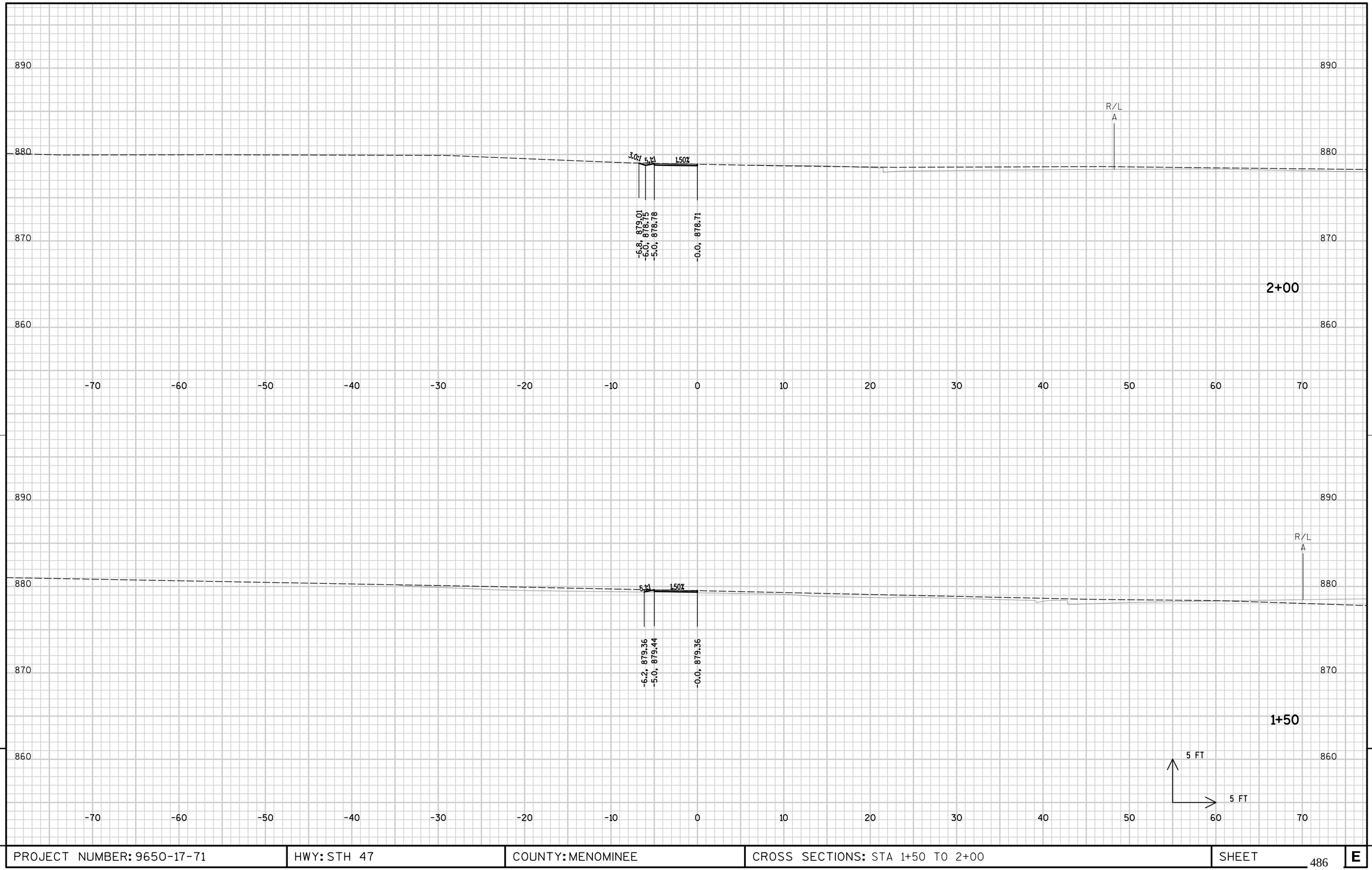
WISDOT/CADDS SHEET 21



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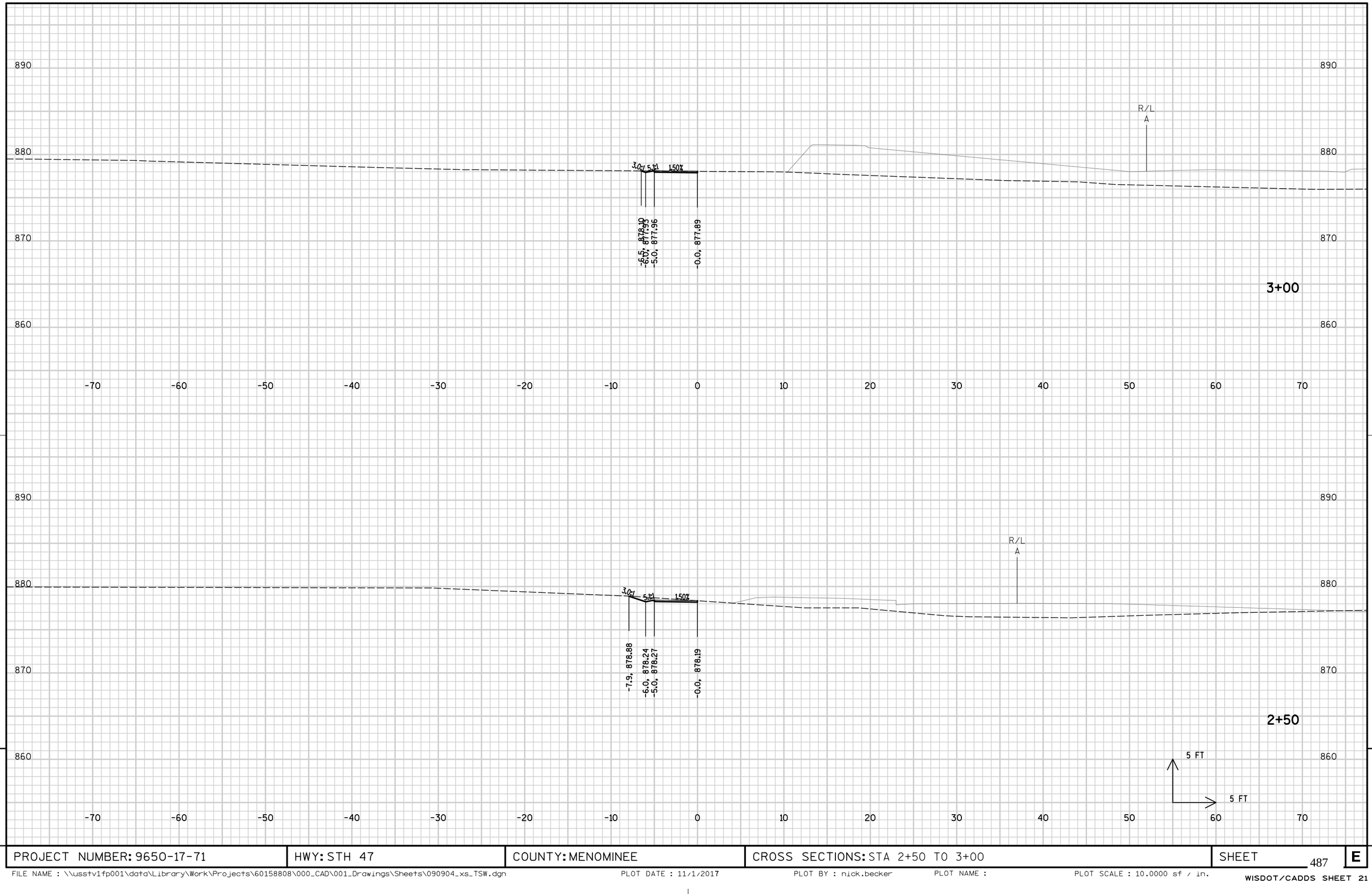
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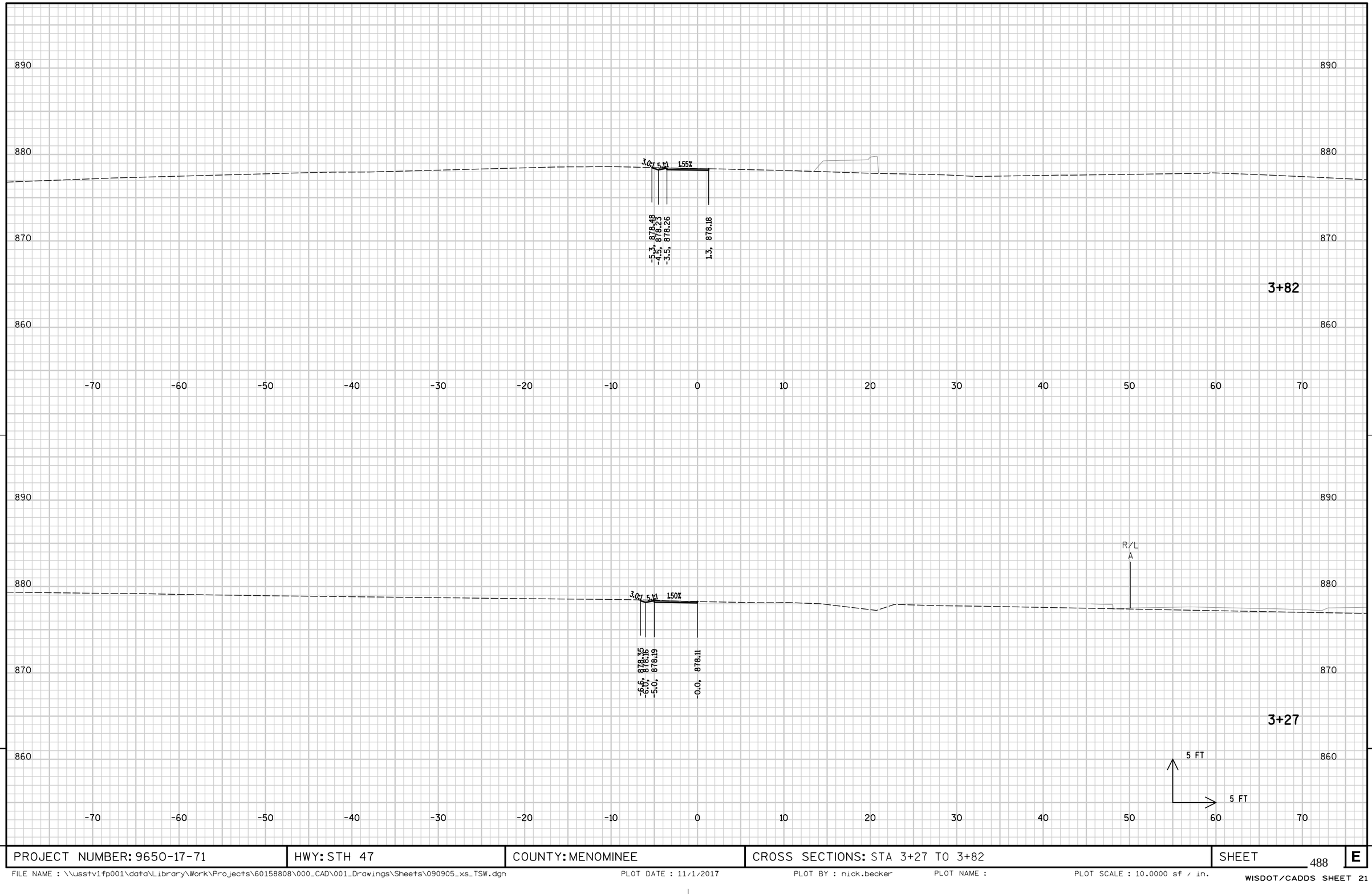
PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STA 1+50 TO 2+00	SHEET 486	E



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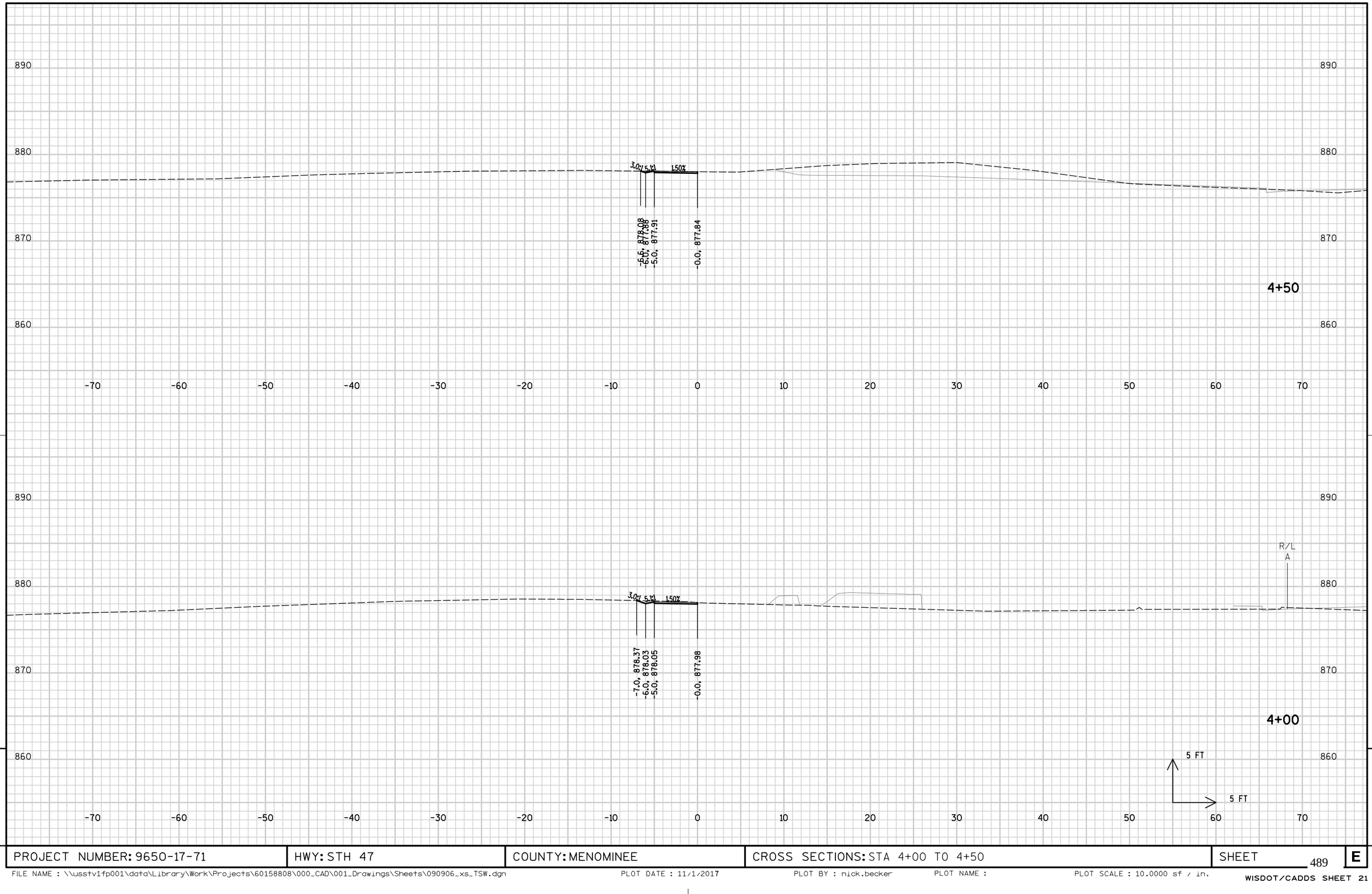
PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STA 2+50 TO 3+00	SHEET 487	E



9 9

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STA 3+27 TO 3+82	SHEET 488	E

FILE NAME : \\usstv1fp001\data\Library\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090905_xs_TSW.dgn PLOT DATE : 11/1/2017 PLOT BY : nick.becker PLOT NAME : PLOT SCALE : 10.0000 sf / in.



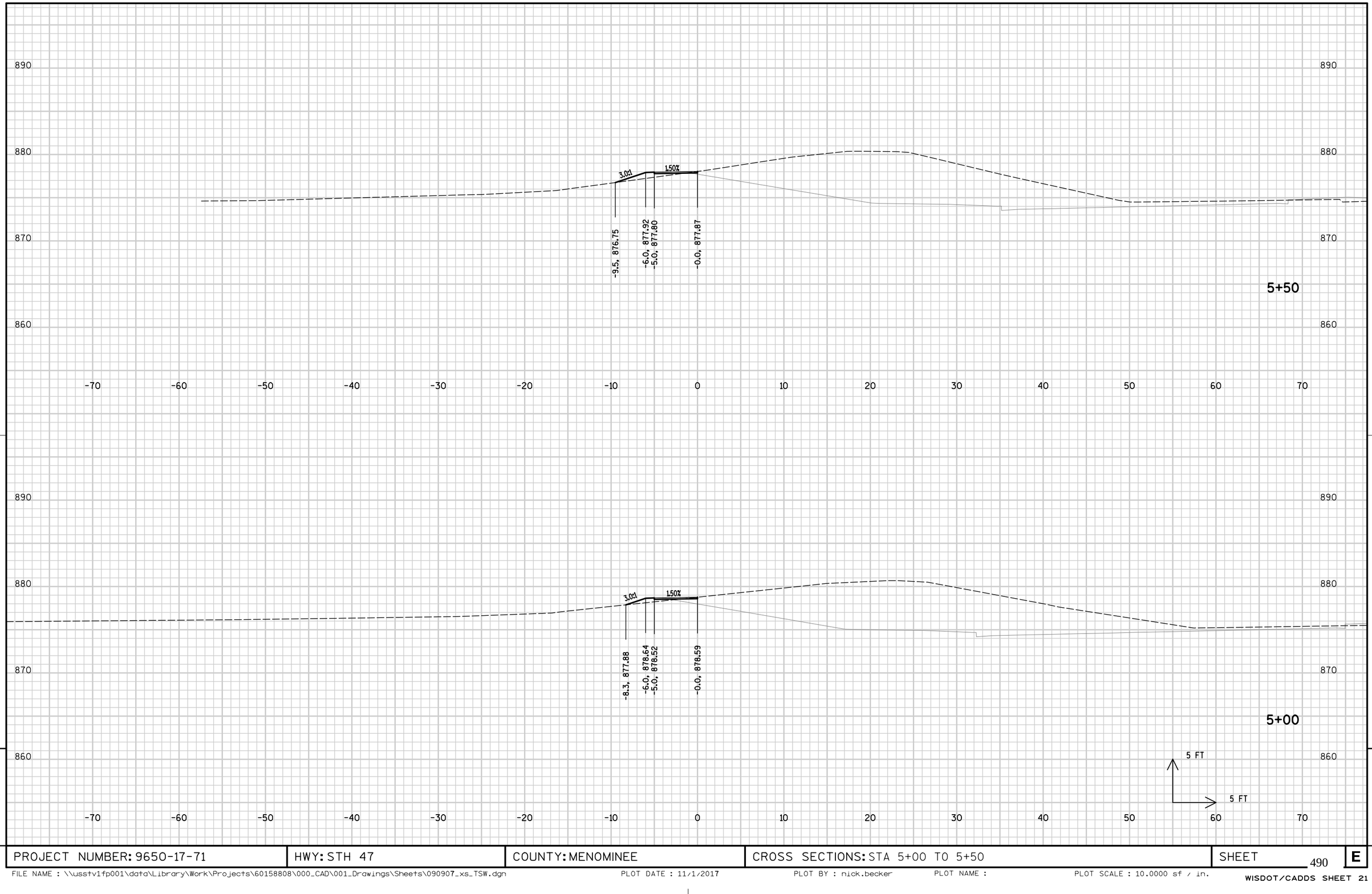
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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STA 4+00 TO 4+50	SHEET 489	E

FILE NAME : \\usstv1fp001\data\Library\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090906_xs_TSW.dgn PLOT DATE : 11/1/2017 PLOT BY : nick.becker PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21



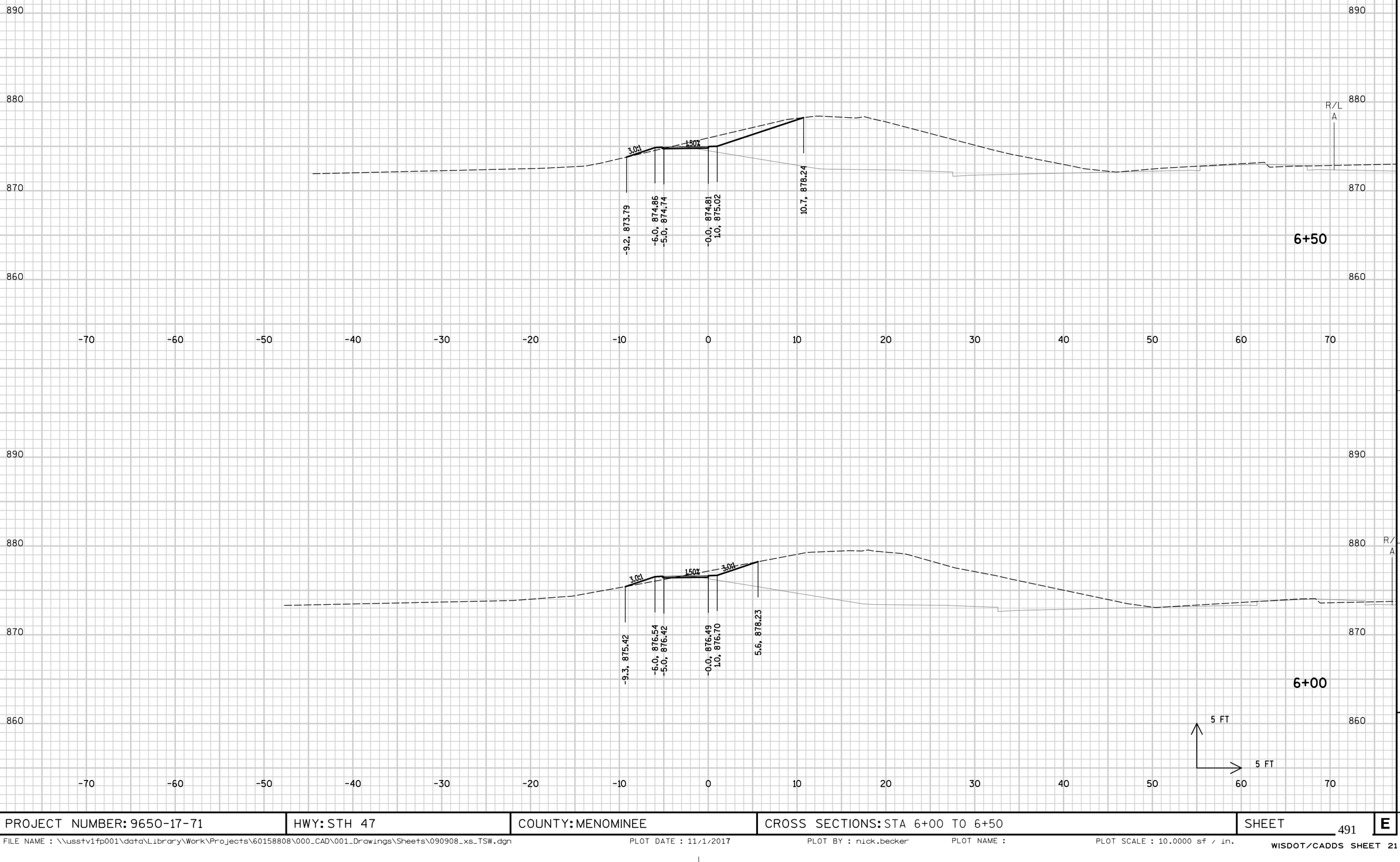
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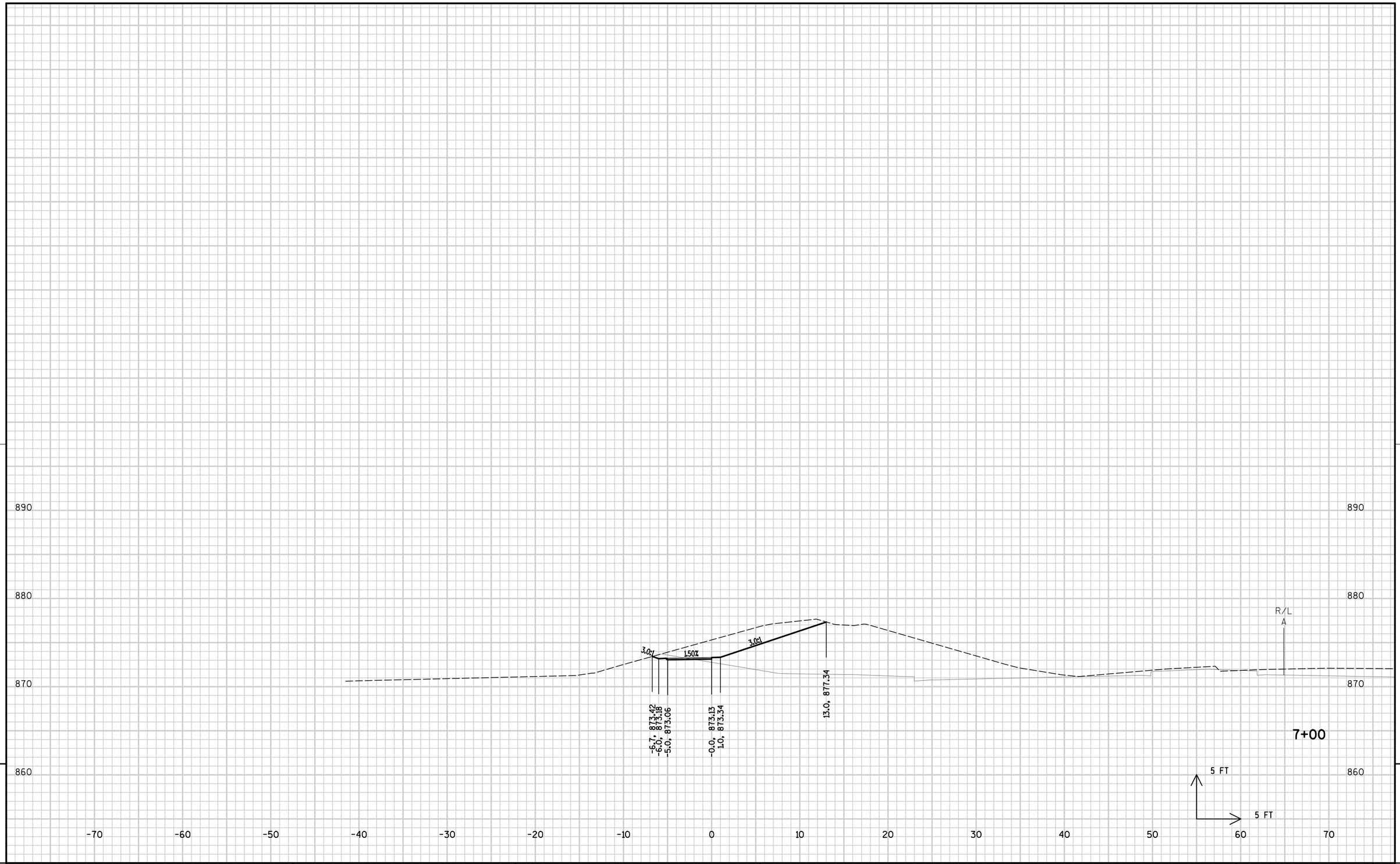
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WISDOT/CADDS SHEET 21



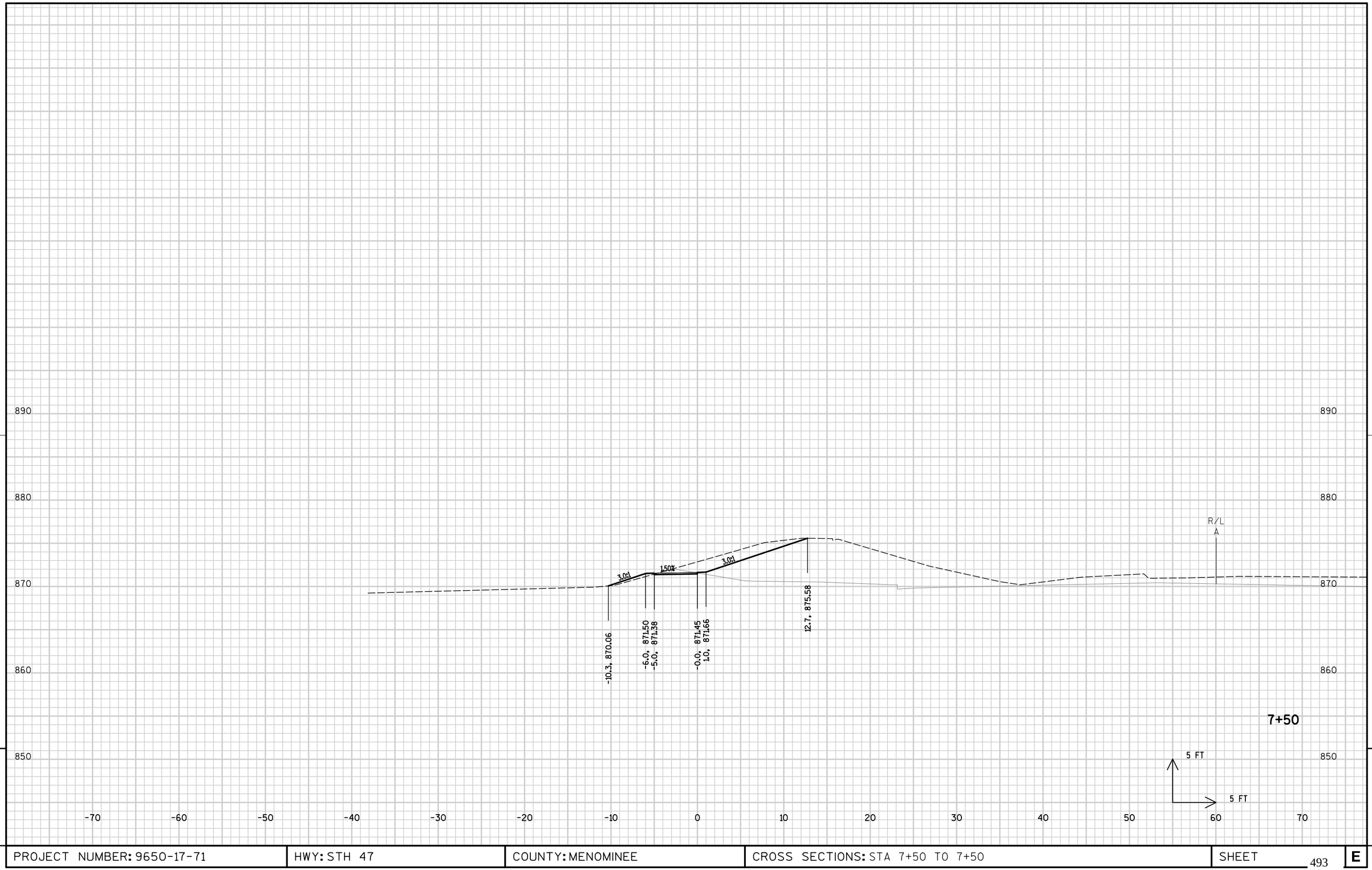
PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STA 6+00 TO 6+50	SHEET 491	E



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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STA 7+00 TO 7+00	SHEET 492	E



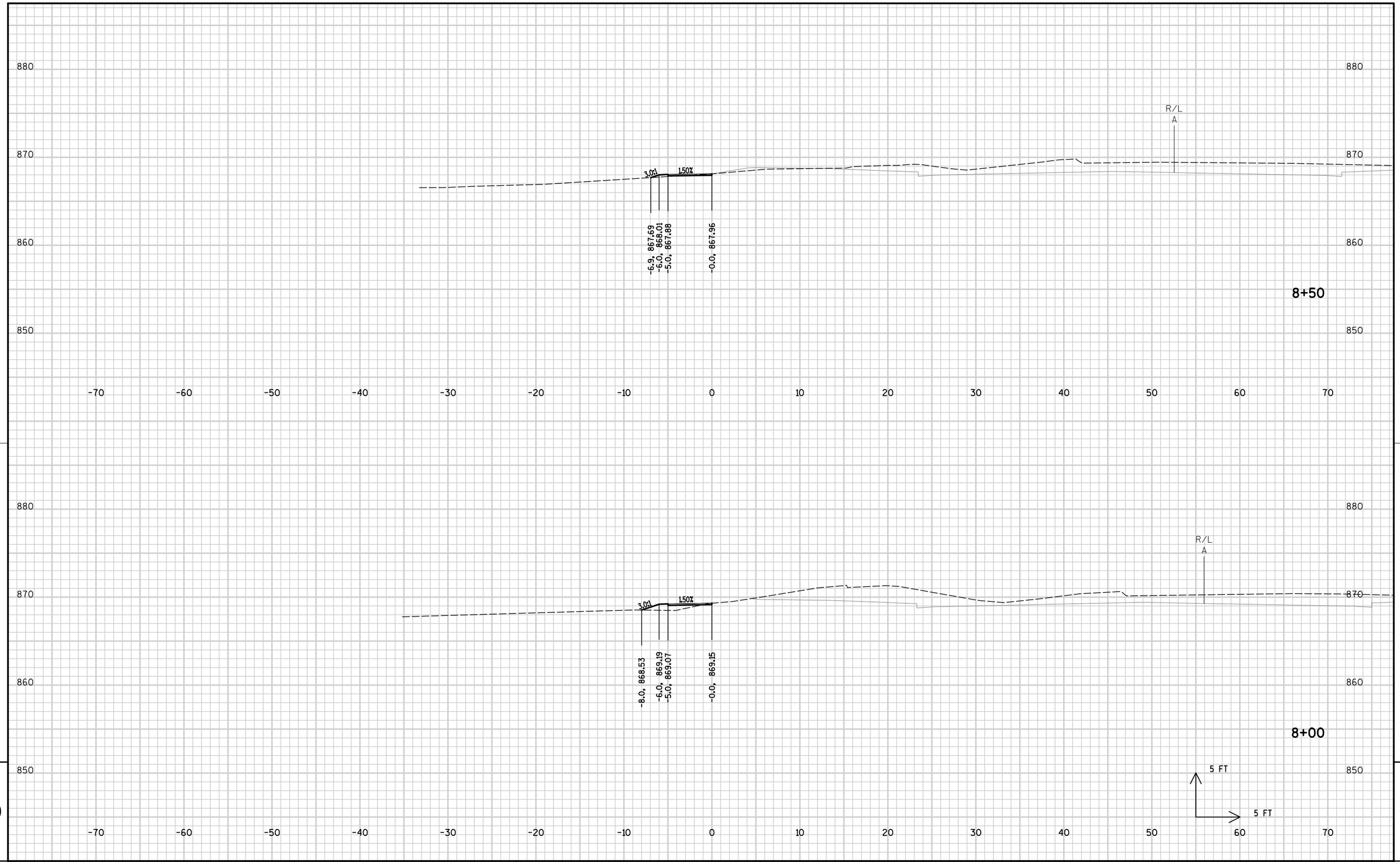
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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STA 7+50 TO 7+50	SHEET 493	E

FILE NAME : \\usstv1fp001\data\Library\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090910_xs_TSW.dgn PLOT DATE : 11/1/2017 PLOT BY : nick.becker PLOT NAME : PLOT SCALE : 10.0000 sf / in.

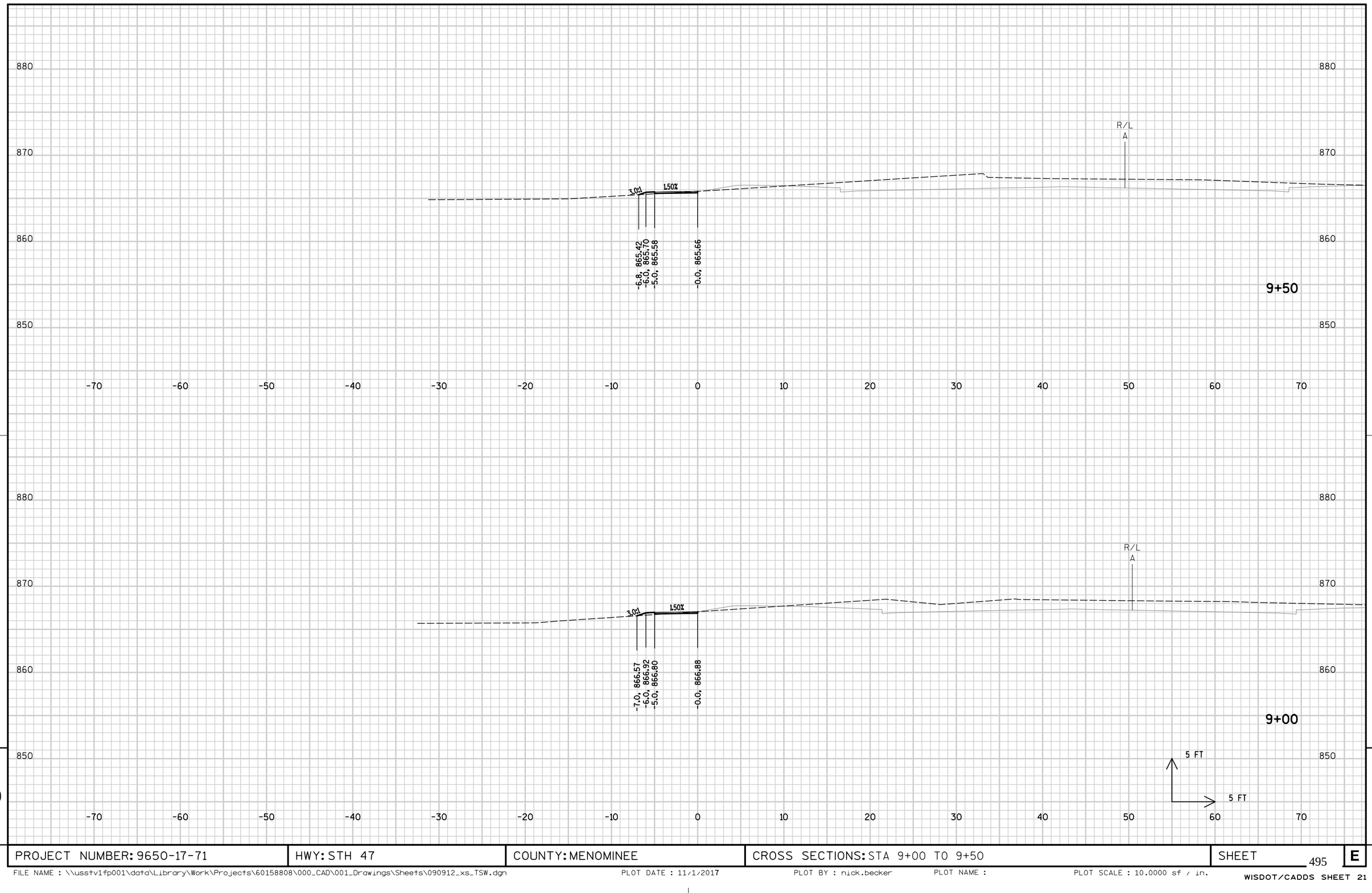
WISDOT/CADDS SHEET 21



PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STA 8+00 TO 8+50	SHEET 494	E

FILE NAME : \\usstv1fp001\data\Library\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090911_xs_TSW.dgn PLOT DATE : 11/1/2017 PLOT BY : nick.becker PLOT NAME : PLOT SCALE : 10.0000 sf / in.

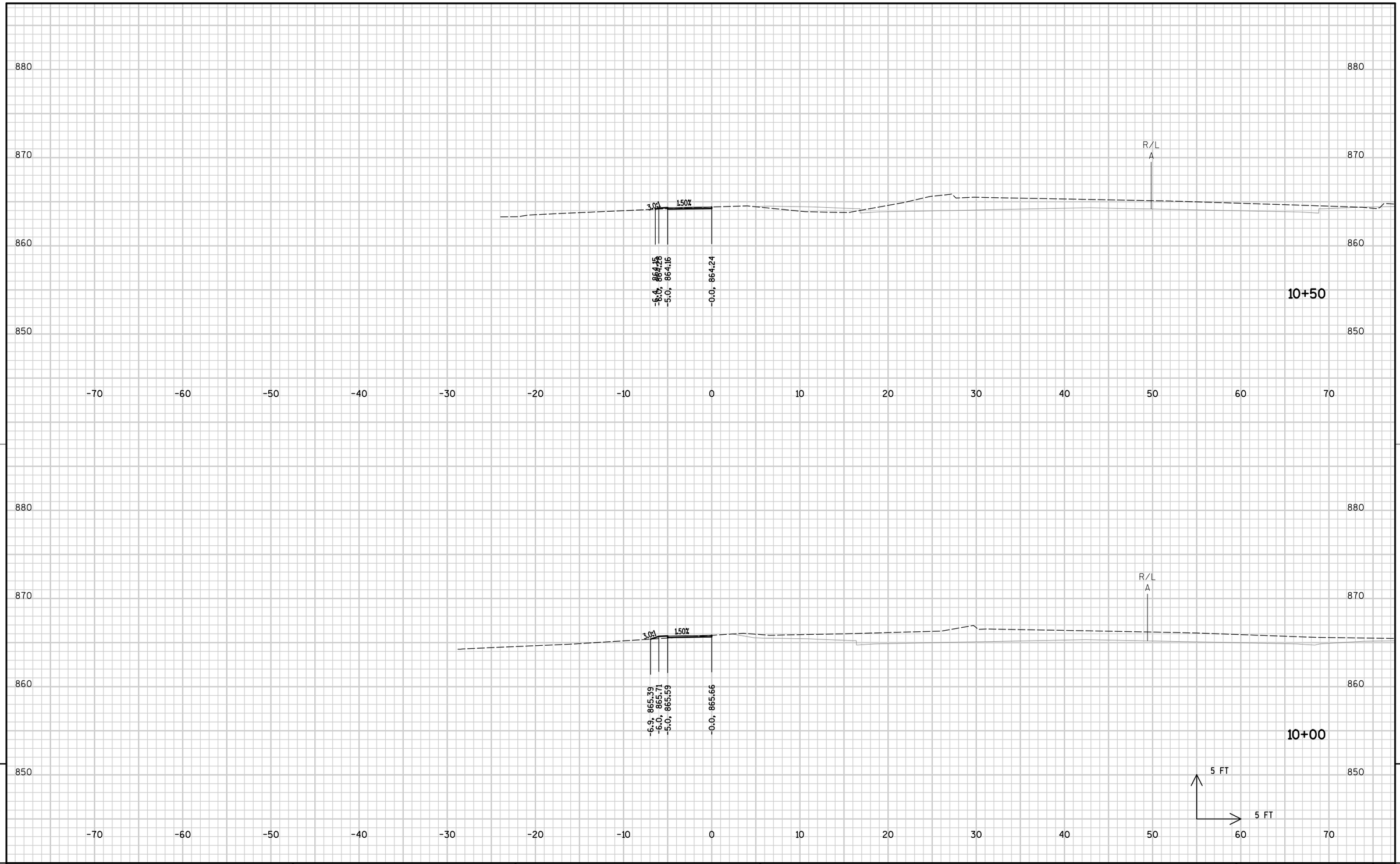
WISDOT/CADDS SHEET 21



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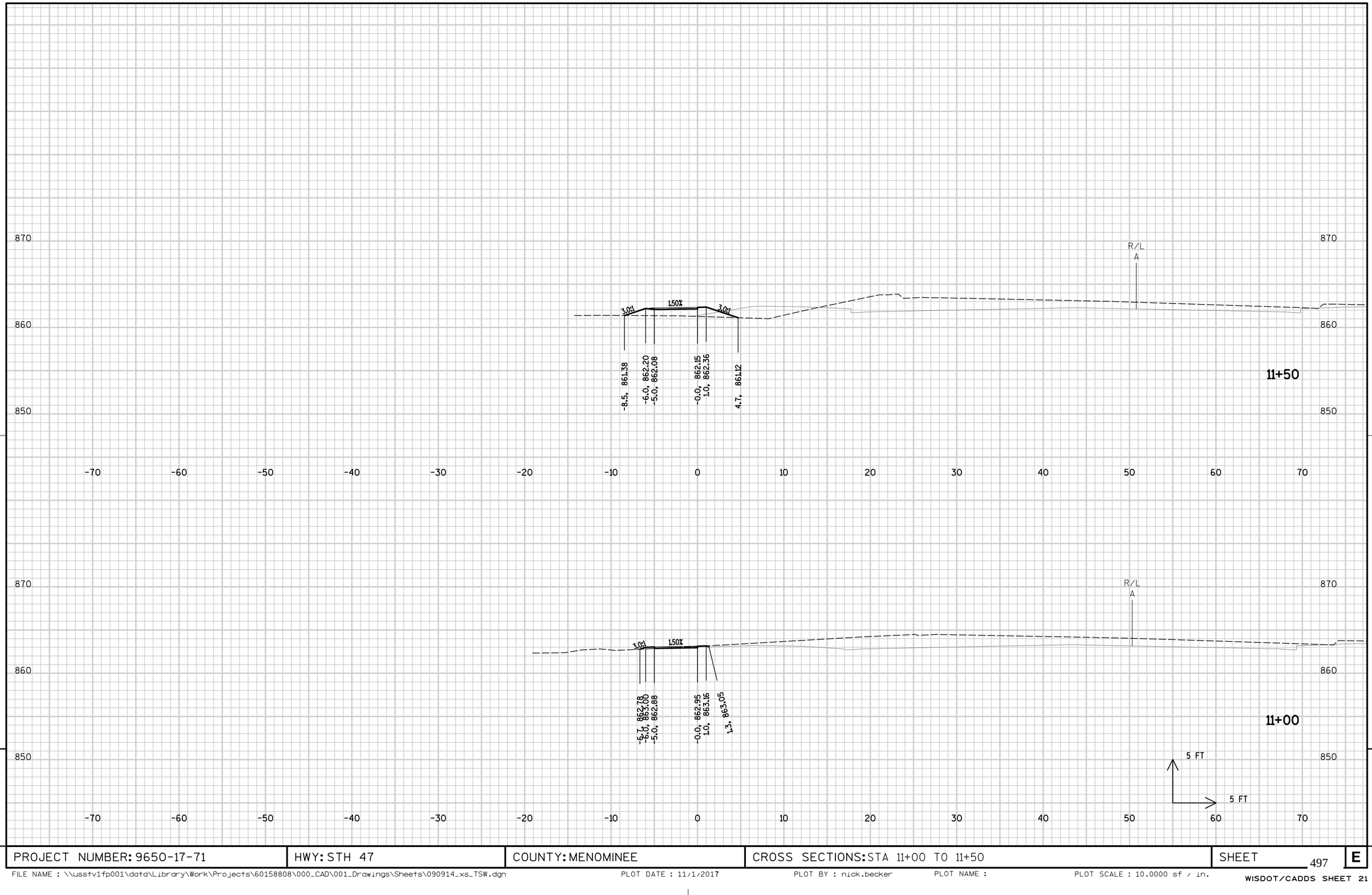
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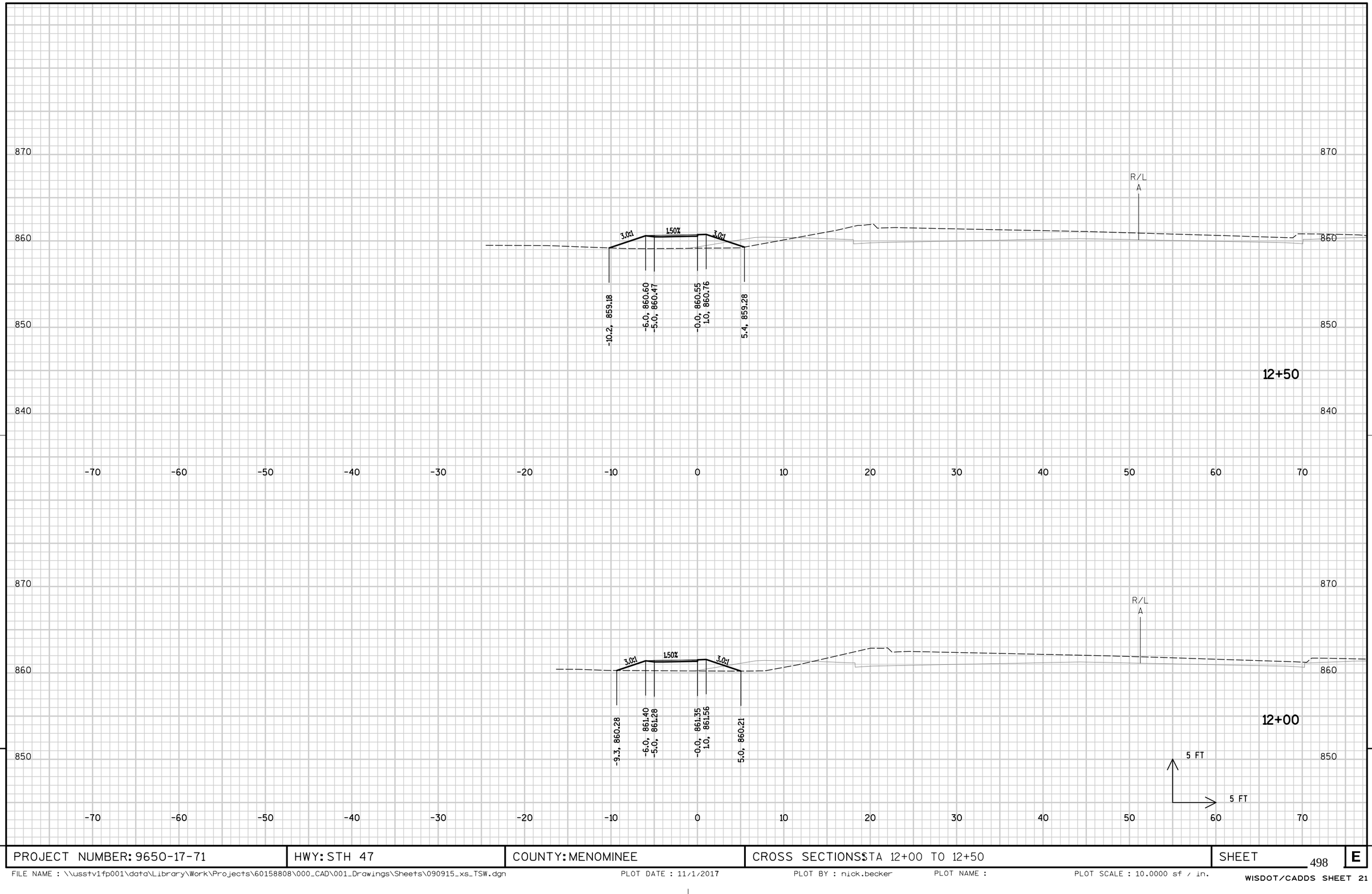
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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STA 11+00 TO 11+50	SHEET 497	E

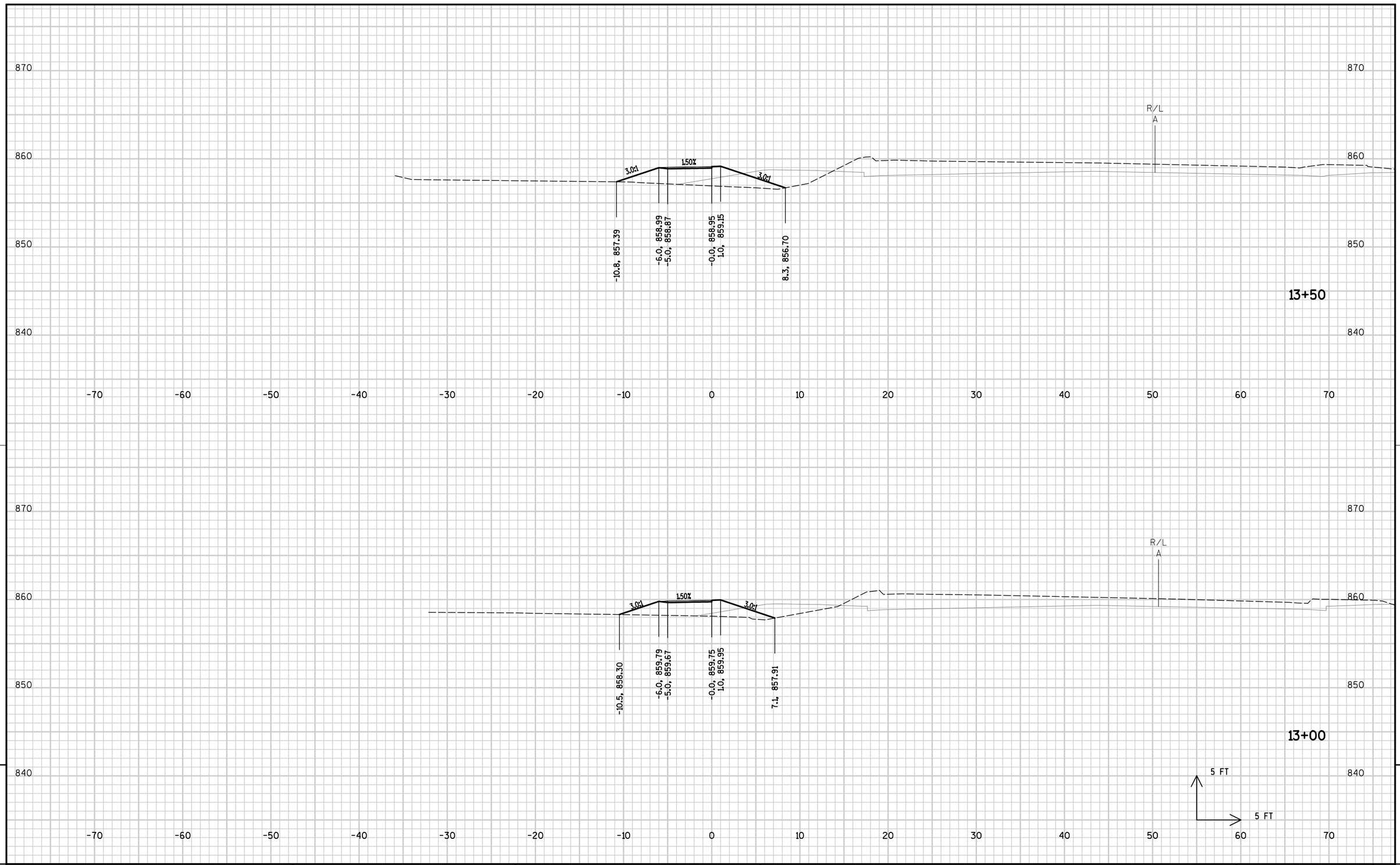


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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS STA 12+00 TO 12+50	SHEET 498	E

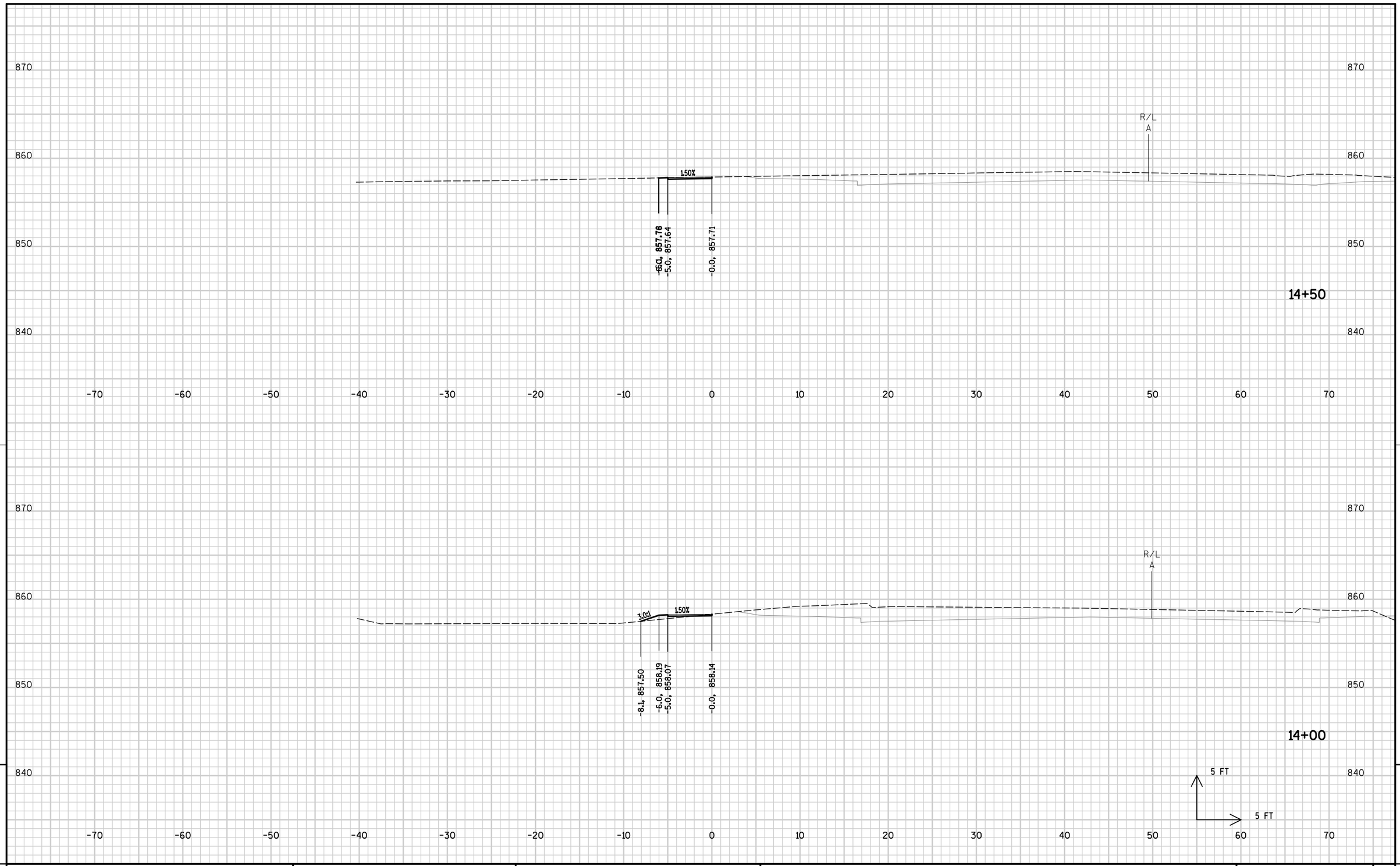
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9

PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS STA 13+00 TO 13+50	SHEET 499	E



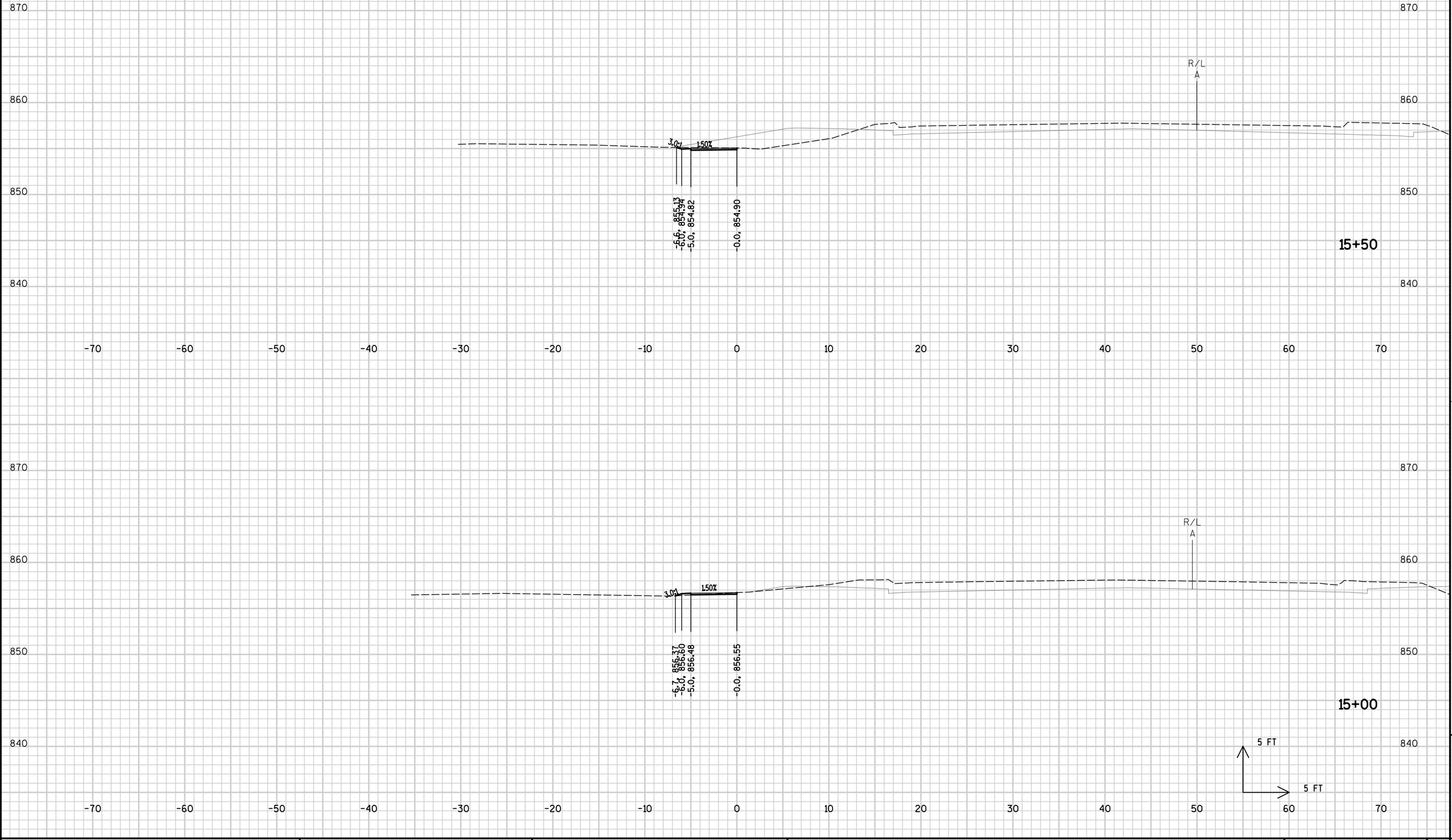
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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS STA 14+00 TO 14+50	SHEET 500	E

FILE NAME : \\usstv1fp001\data\Library\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090917_xs_TSW.dgn PLOT DATE : 11/1/2017 PLOT BY : nick.becker PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21



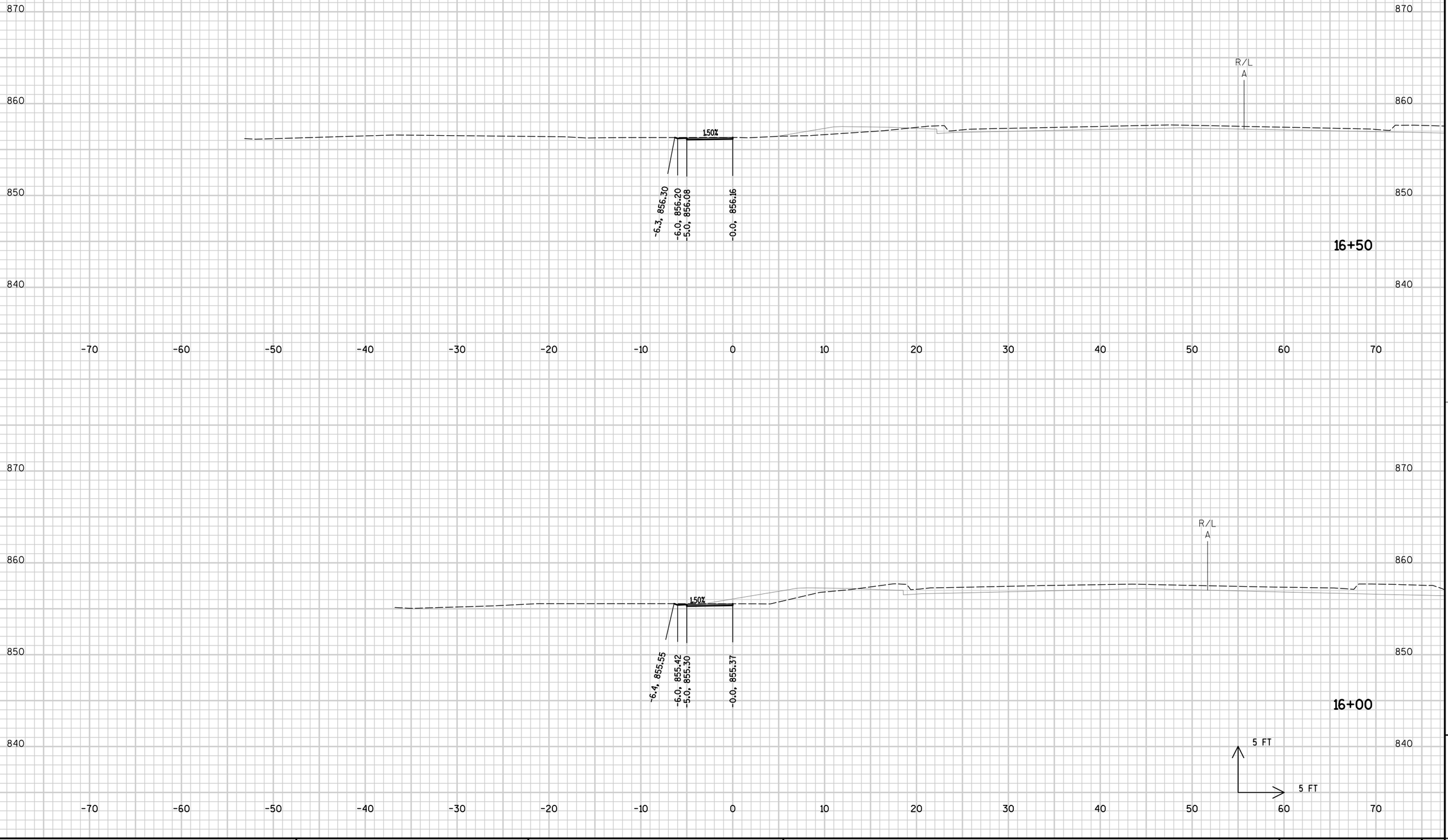
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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS STA 15+00 TO 15+50	SHEET 501	E

FILE NAME : \\usstv1fp001\data\Library\Work\Projects\60158808\000_CAD\001_Drawings\Sheets\090918_xs_TSW.dgn PLOT DATE : 11/1/2017 PLOT BY : nick.becker PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 21



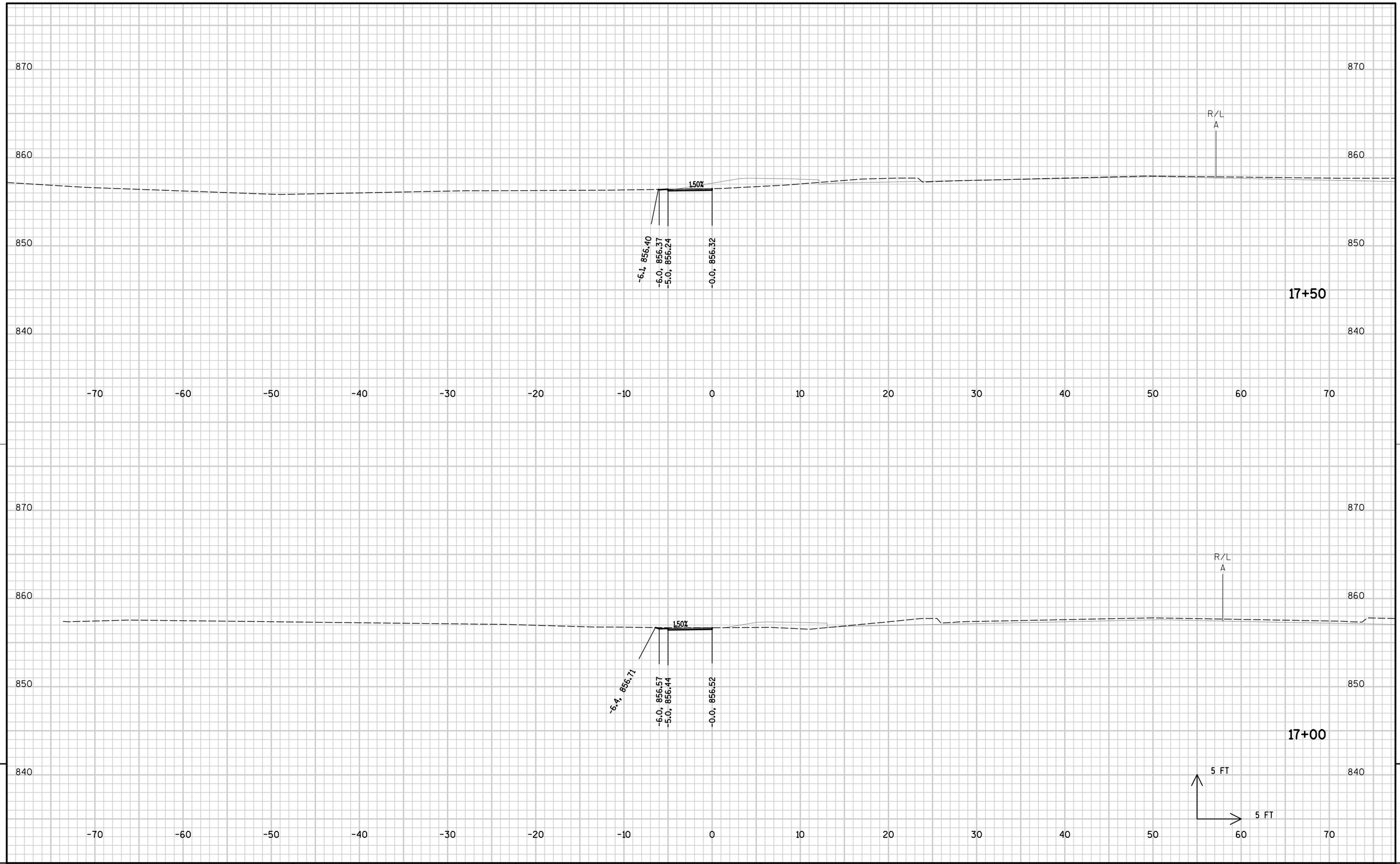
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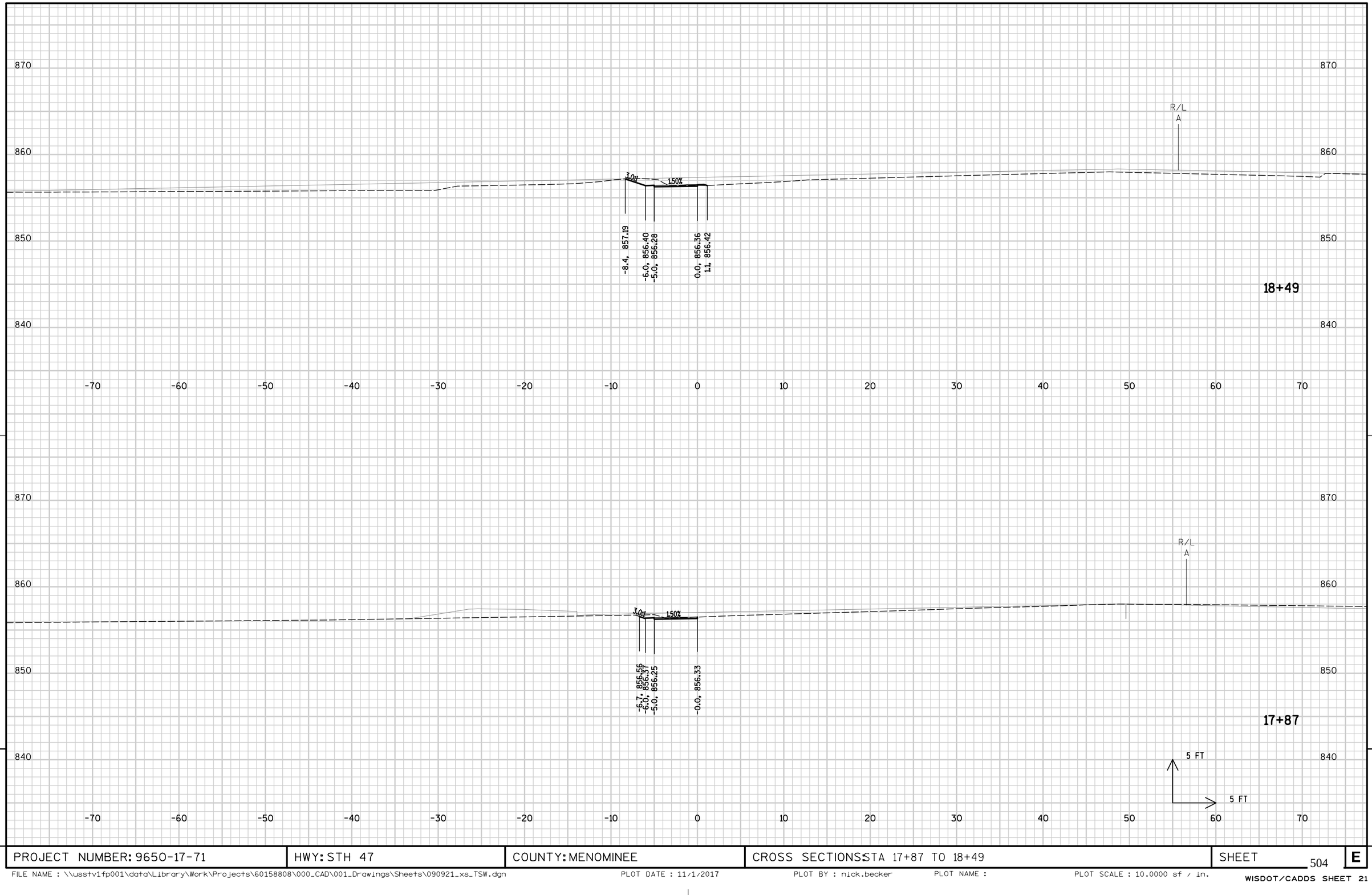
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WISDOT/CADDS SHEET 21



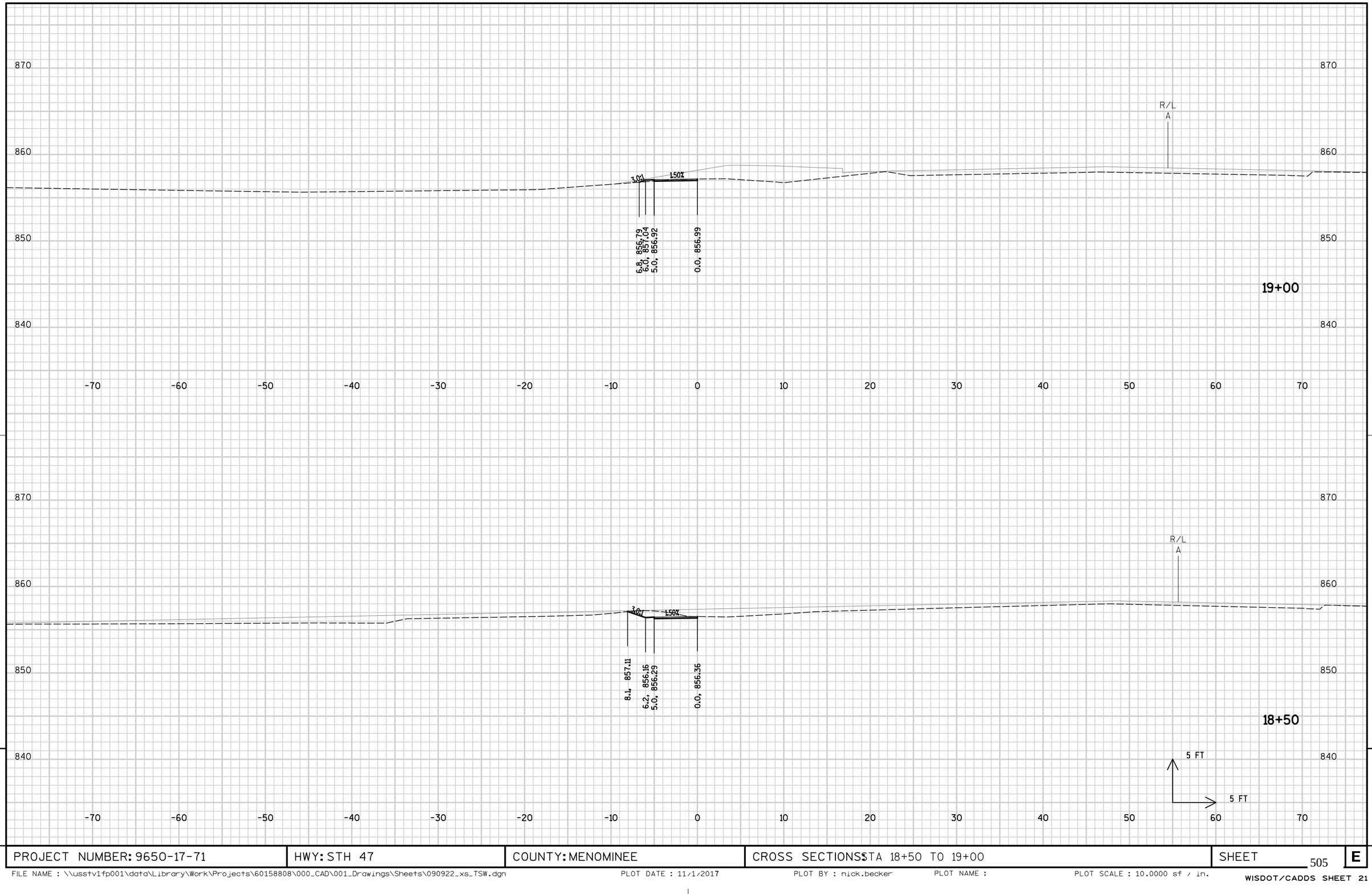
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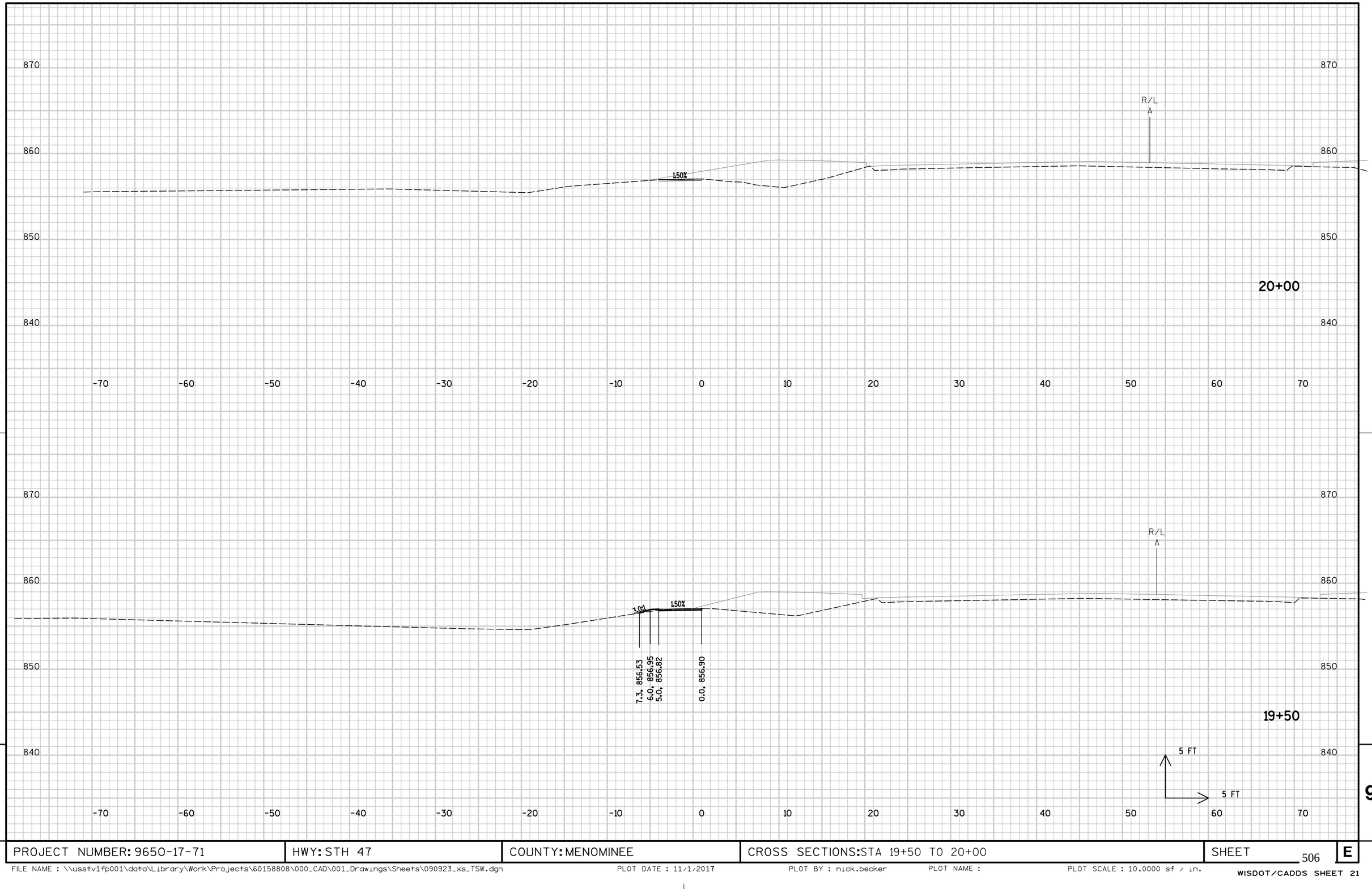
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WISDOT/CADDS SHEET 21



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PROJECT NUMBER: 9650-17-71	HWY: STH 47	COUNTY: MENOMINEE	CROSS SECTIONS: STA 19+50 TO 20+00	SHEET 506	E

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WISDOT/CADDS SHEET 21

Notes

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