GRE

Dec 13, 2022

PROJECT ID: 1470-30-71

COUNTY: MANITOWOC

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plat
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 224



N

DESIGN DESIGNATION 1470-30-00

A.A.D.T.	2024	=	2,110
A.A.D.T.	2044	=	2,110
D.H.V.		=	
D.D.		=	
T.		=	11%
DESIGN SPEED		=	50 MPH / 60 MPH
ESALS		=	68

CONVENTIONAL SYMBOLS

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

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

UTILITIES
- ELECTRIC
- FIBER OPTIC
- GAS
- SANITARY SEWER
- STORM SEWER
- TELEPHONE
- WATER
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

TWO RIVERS - KEWAUNEE

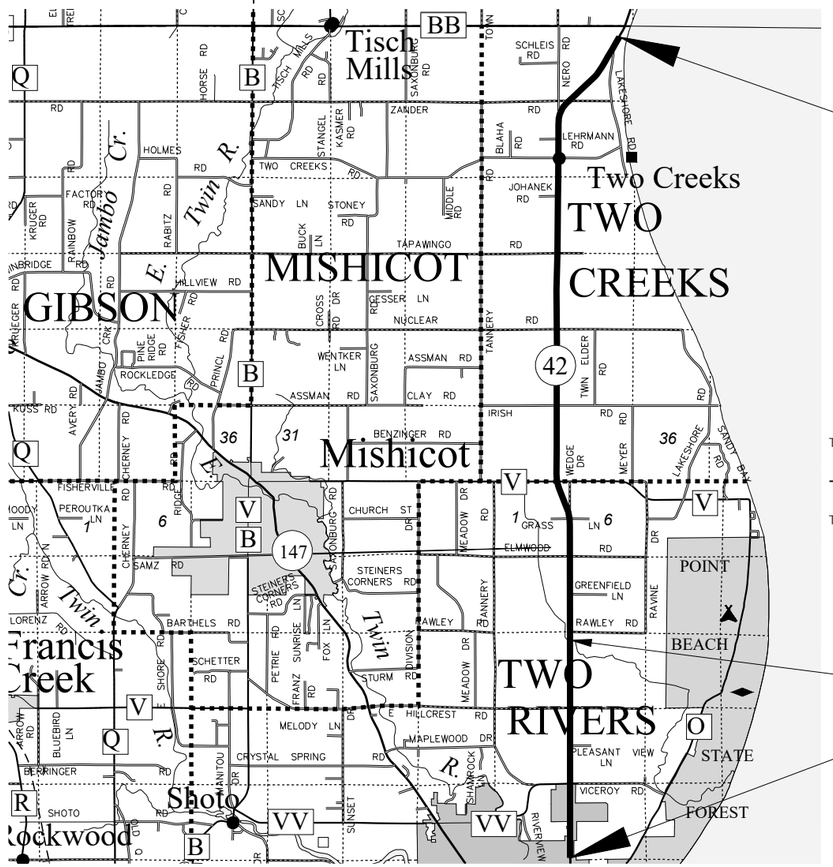
34TH STREET - NCL

STH 42

MANITOWOC

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1470-30-71	WISC 2023105	1

STATE PROJECT NUMBER
1470-30-71



LAYOUT

SCALE 0 2 MI

TOTAL NET LENGTH OF CENTERLINE = 11.204 MILES

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	AYRES ASSOCIATES
Designer	MEGAN SCHERER
Project Manager	BRIAN HAEN
Regional Examiner	REGIONAL EXAMINER
Regional Supervisor	DAN SEGERSTROM

APPROVED FOR THE DEPARTMENT

DATE: 9/26/22 Brian Haen (Signature)

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\010101-TI.DWG PLOT DATE : 6/6/2022 1:13 PM PLOT BY : SCHERER, MEGAN S PLOT NAME :

GENERAL NOTES

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

THE LIMITS OF PAVEMENT REMOVAL ON SIDE STREETS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD BY THE ENGINEER.

THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.
NO TREES AND SHRUBS ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

THE EROSION CONTROL ITEMS SHOWN ON THE PLANS, ARE AT SUGGESTED LOCATIONS. THE ENGINEER SHALL DETERMINE THE EXACT LOCATIONS OF EROSION CONTROL ITEMS. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY. THE CONTRACTOR WILL REMOVE ITEMS AT THE ENGINEER'S DIRECTION.

EROSION CONTROL DEVICES SHALL BE PLACED IN SEQUENCE WITH CONSTRUCTION OPERATIONS AND MAINTAINED AS DETERMINED BY THE ENGINEER.

NUMBER, LOCATION, AND SPACING OF TRAFFIC CONTROL SIGNS AND DEVICES, AS SHOWN IN THE PLANS, SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, ARE TO BE SEEDED AND COVERED WITH EROSION MAT AS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR WILL BE RESPONSIBLE FOR RESTORING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY HIS OPERATIONS OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS, INCLUDING GRADING, TOPSOILING, SEEDING AND INSTALLING EROSION MAT.

DRAINTILE CAN BE CUT TO FIT NEW CULVERT INSTALLATION, INCIDENTAL TO CULVERT WORK.

RIGHT OF WAY LINES ON PLAN ARE FROM MANITOWOC COUNTY GIS.

DNR CONTACT

DNR LIAISON
MATT SCHAEVE
DNR NORTHEAST REGIONAL HEADQUARTERS
2984 SHAWANO AVE
GREEN BAY, WI 54313
PHONE: (920) 366-1544
EMAIL: matthew.schaeve@wisconsin.gov

ORDER OF SECTION 2 SHEETS

GENERAL NOTES
TYPICAL SECTIONS
CONSTRUCTION DETAILS
PLAN DETAILS
EROSION CONTROL
TRAFFIC CONTROL
DETOUR PLAN

WISDOT CONTACTS

PROJECT LEADER
MEGAN SCHERER
NORTHEAST REGION OFFICE
944 VANDERPERREN WAY
GREEN BAY, WI 54304
PHONE: (920) 492-7702
EMAIL: megan.scherer@dot.wi.gov

PROJECT MANAGER
BRIAN HAEN
NORTHEAST REGION OFFICE
944 VANDERPERREN WAY
GREEN BAY, WI 54304
PHONE: (920) 366-4788
EMAIL: brian.haen@dot.wi.gov

SURVEY COORDINATOR
CORMAC MCINNIC, RLS
NORTHEAST REGION OFFICE
944 VANDERPERREN WAY
GREEN BAY, WI 54304
PHONE: (920) 492-5638
EMAIL: cormac.mcinnis@dot.wi.gov

STANDARD ABBREVIATIONS

AC	ACRES
AEW	APRON ENDWALL
ASPH	ASPHALT
AVE	AVENUE
BAD	BASE AGGREGATE DENSE
BOC	BACK OF CURB
BM	BENCHMARK
CL	CENTERLINE
CMCP	CORRUGATED METAL CULVERT PIPE
CONC	CONCRETE
CP	CONTROL POINT
CSM	CERTIFIED SURVEY MAP
CTH	COUNTY TRUNK HIGHWAY
D	DEGREE OF CURVE
E	EAST
EB	EASTBOUND
EBS	EXCAVATION BELOW SUBGRADE
EOP	EDGE OF PAVEMENT
EW	ENDWALL
EXIST	EXISTING
FT	FOOT
GV	GAS VALVE
HYD	HYDRANT
IN	INCH
INL	INLET
INV	INVERT
L	LENGTH
LC	LONG CHORD
LF	LINEAR FEET
LT	LEFT
MH	MANHOLE
MI	MILE
MON	MONUMENT
N	NORTH
NB	NORTHBOUND
N.C.	NORMAL CROWN
PB	PULLBOX
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PL	PROPERTY LINE
PLE	PERMANENT LIMITED EASEMENT
PT	POINT OF TANGENCY
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
REQ'D	REQUIRED
RL OR R/L	REFERENCE LINE
RP	RADIUS POINT
RT	RIGHT
R/W	RIGHT-OF-WAY
S	SOUTH
SAN	SANITARY SEWER
SB	SOUTHBOUND
S.E.	SUPERELEVATION
SEC	SECTION
SQ	SQUARE
ST	STREET
STA	STATION
STH	STATE TRUNK HIGHWAY
TEMP	TEMPORARY
TLE	TEMPORARY LIMITED EASEMENT
TYP.	TYPICAL
WM	WATERMAIN
WV	WATER VALVE
W	WEST
WB	WESTBOUND
X	EAST GRID COORDINATE
Y	NORTH GRID COORDINATE

UTILITY CONTACTS

COMMUNICATIONS

AT&T WISCONSIN
VICTORIA KASSAB
205 S JEFFERSON ST
GREEN BAY, WI 54301
PHONE: (920) 401-7512
EMAIL: vk352k@att.com

COMMUNICATIONS

TDS TELECOM
JEFF SHAW
202 E OGDEN ST
MEDFORD, WI 54451
PHONE: (715) 748-6970
EMAIL: jeff.shaw@tdstelecom.com
MOBILE: (715) 323-8464

GAS/PETROLEUM

WISCONSIN PUBLIC SERVICE CORPORATION
JOEL SAWICKI
800 COLUMBUS ST, P.O. BOX 236
TWO RIVERS, WI 54241-0236
PHONE: (920) 657-1862
EMAIL: joel.sawicki@wisconsinpubicservice.com
MOBILE: (920) 680-3181

COMMUNICATIONS

SPECTRUM
VINCE ALBIN
3520 DESTINATION DR
APPLETON, WI 54915
PHONE: (920) 831-9249
EMAIL: vince.albin@charter.com
MOBILE: (920) 378-0444

ELECTRICITY

TWO RIVERS WATER & LIGHT UTILITY
BRIAN DELLEMANN
1415 LAKE ST, P.O. BOX 87
TWO RIVERS, W 54241-0087
PHONE: (920) 793-5553
EMAIL: bridel@two-rivers.org
MOBILE: (920) 323-0385

WATER & SEWER

CITY OF TWO RIVERS
SCOTT AHL
1717 E PARK ST
TWO RIVERS, WI 54241
PHONE: (920) 793-5542
EMAIL: scoahl@two-rivers.org
MOBILE: (920) 973-8067

COMMUNICATIONS

FRONTIER NORTH
RUSS RYAN
118 DIVISION ST
PLYMOUTH, WI 53073
PHONE: (920) 583-3275
EMAIL: russell.w.ryan@ftr.com

ELECTRICITY - TRANSMISSION

AMERICAN TRANSMISSION COMPANY
CHRIS DAILEY
P.O. BOX 47
WAUKESHA, WI 53187
PHONE: (262) 506-6884
EMAIL: cdailey@atcllc.com

COMMUNICATIONS

EVERSTREAM
SHAD GARCIA
324 E WISCONSIN AVE, SUITE 730
MILWAUKEE, WI 53202
PHONE: (414) 522-6685
EMAIL: sgarcia@everstream.net

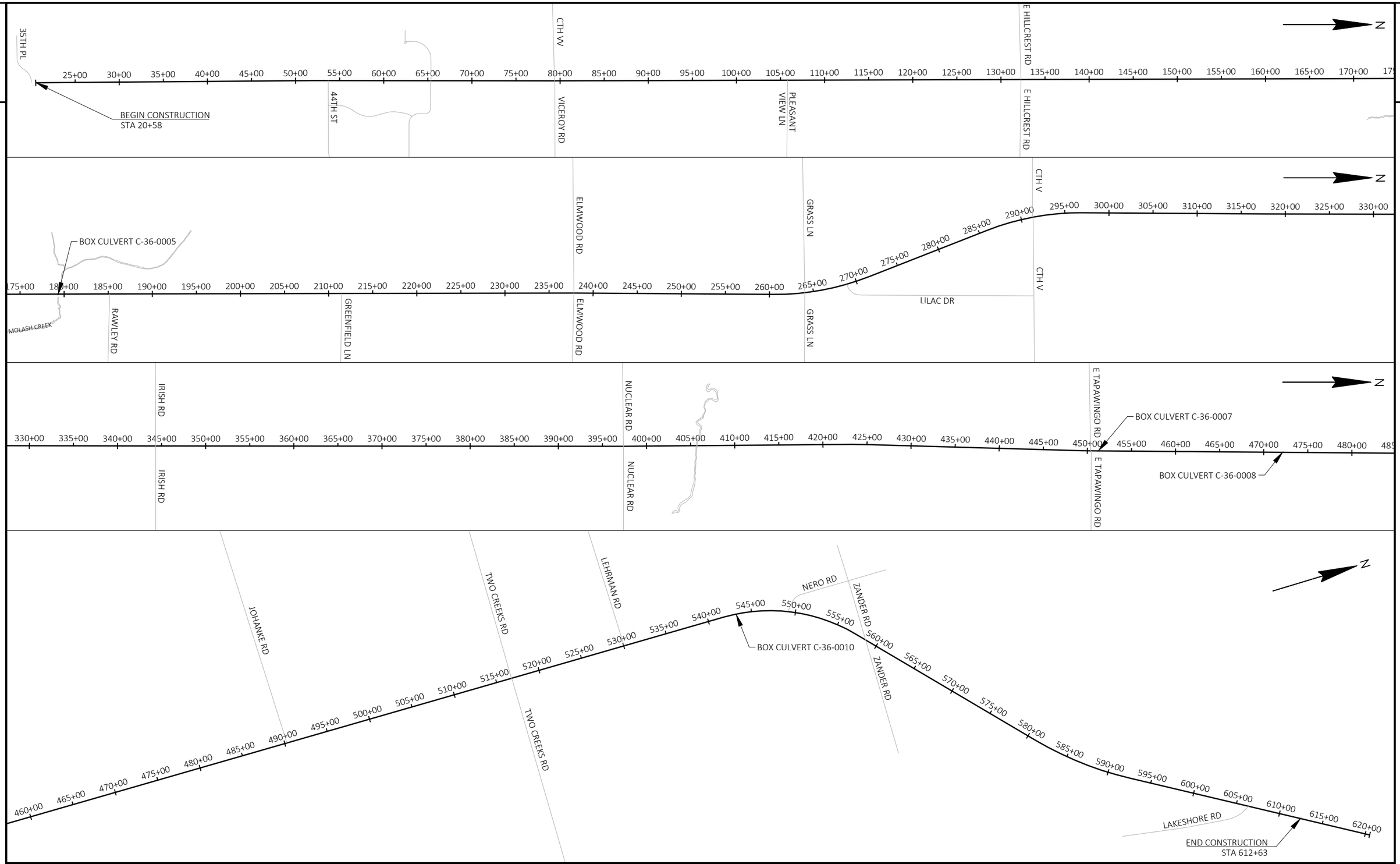
COMMUNICATIONS

PAETEC COMMUNICATIONS
LORI KETTER
314 N DANZ AVE
GREEN BAY, WI 54302-3526
PHONE: (920) 410-6902
EMAIL: lori.ketter@windstream.com

ELECTRICITY

WISCONSIN PUBLIC SERVICE CORPORATION
CHUCK WINDUS
2850 S ASHLAND AVE
GREEN BAY, WI 54307
PHONE: (920) 617-5281
EMAIL: charles.windus@wisconsinpublicservice.com
MOBILE: (920) 606-1141

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

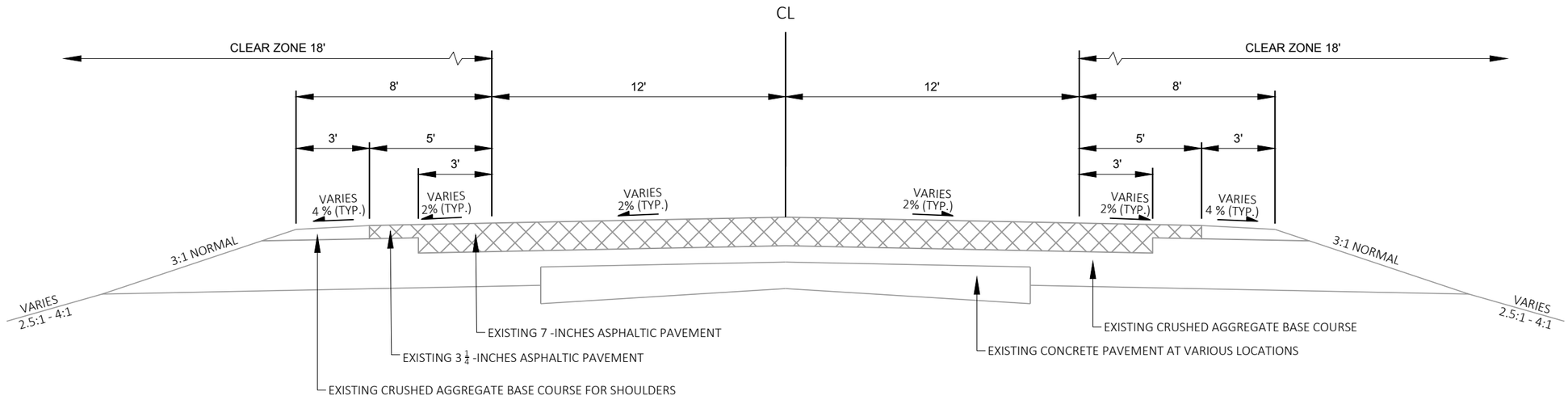


PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	PROJECT OVERVIEW	SHEET Page 3 3	E

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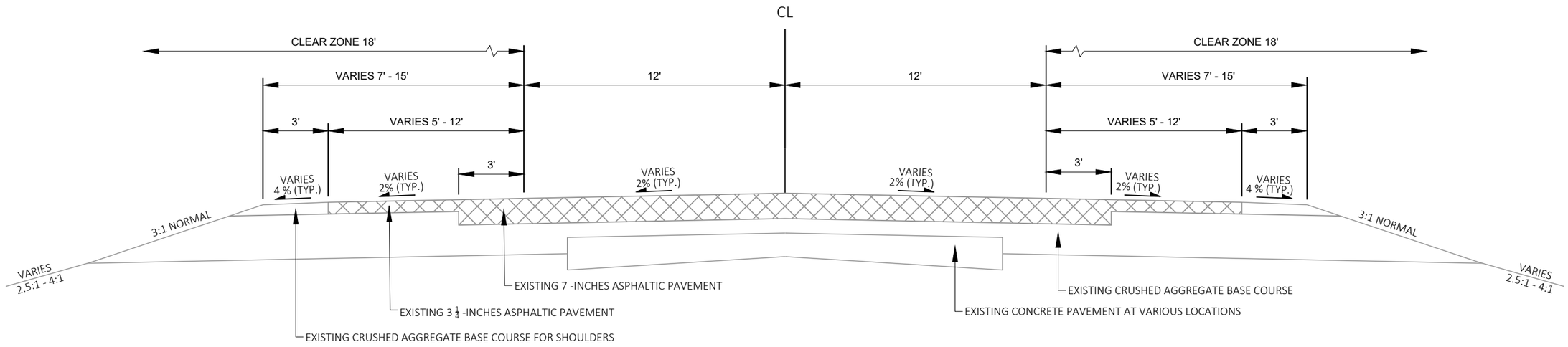
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WISDOT/CADDS SHEET 42



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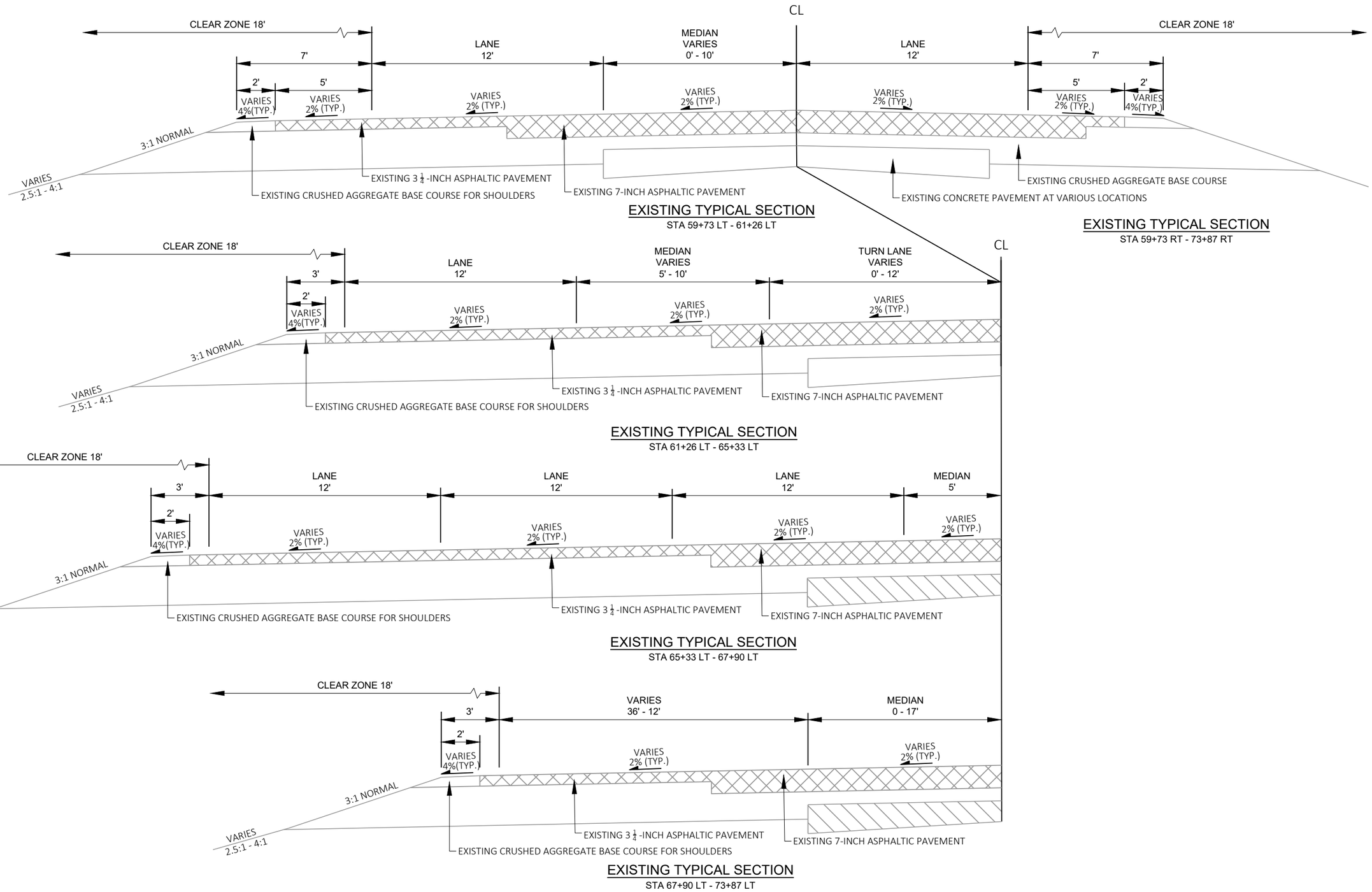
STA 20+58 - 48+09



EXISTING TYPICAL SECTION

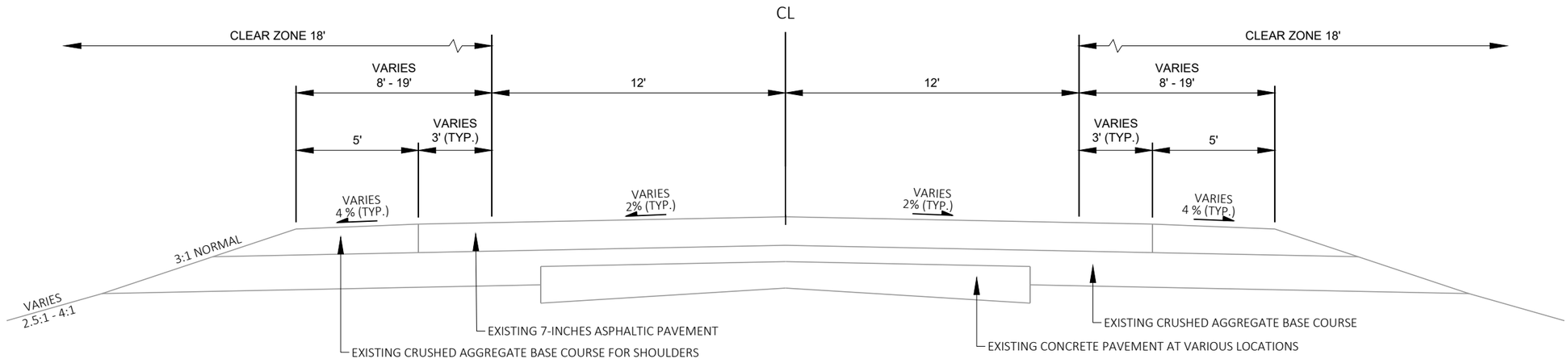
STA 48+09 - 59+73
STA 73+87 - 79+34

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	EXISTING TYPICAL SECTIONS	SHEET Page 4 4	E



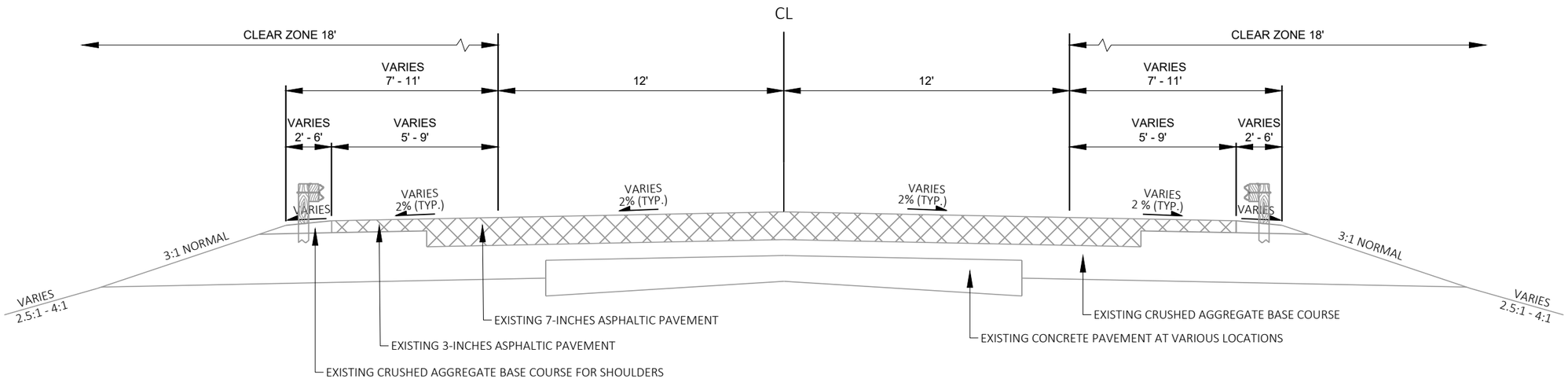
PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	EXISTING TYPICAL SECTIONS	SHEET Page 5 5	E

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PLOT BY : SCHERER, MEGAN S
PLOT NAME :
PLOT SCALE : 1 IN:5 FT
WISDOT/CADDS SHEET 42



EXISTING TYPICAL SECTION

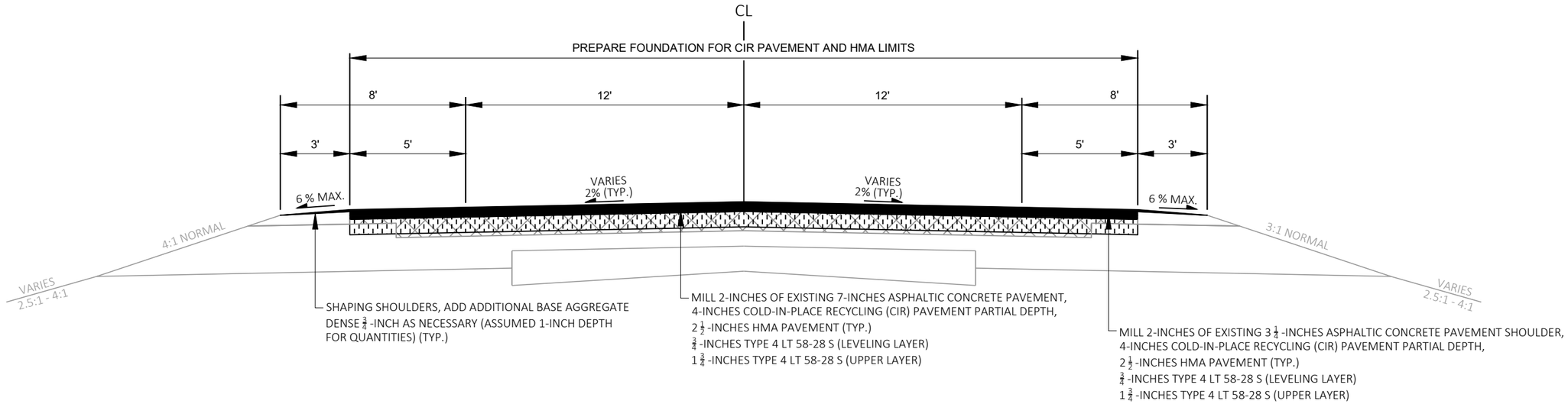
STA 79+34 - 177+22
STA 181+76 - 341+06
STA 343+59 - 450+99
STA 454+05 - 566+51
STA 570+83 - 612+63



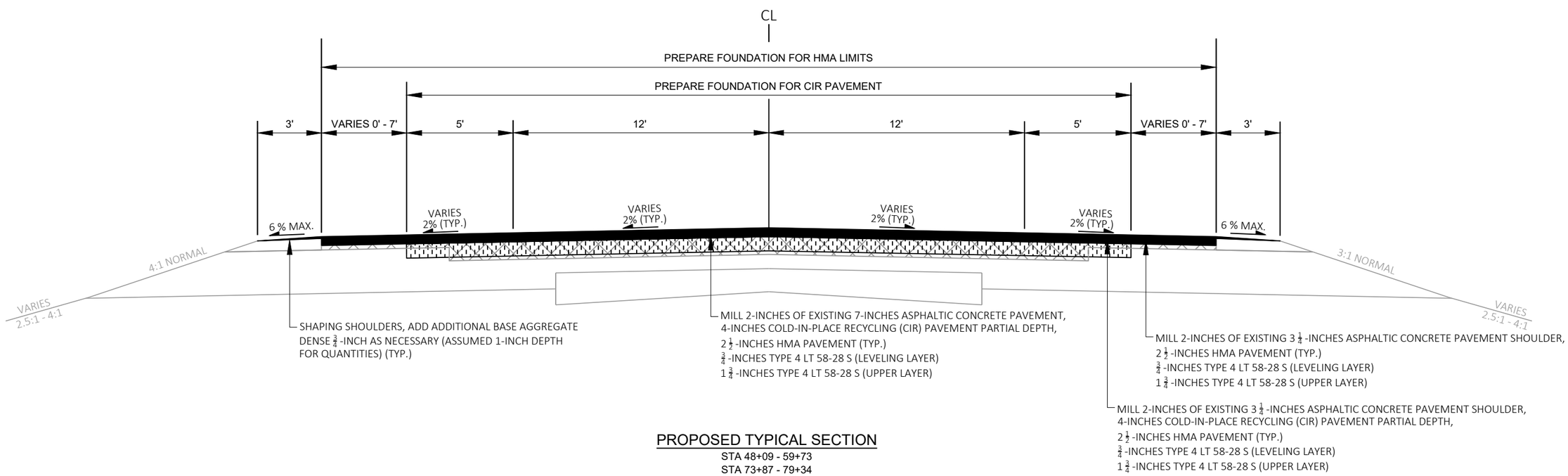
EXISTING TYPICAL SECTION

STA 177+22 - 181+76
STA 341+06 - 343+59
STA 450+99 - 454+05
STA 566+51 - 570+83

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	EXISTING TYPICAL SECTIONS	SHEET Page 6 6	E



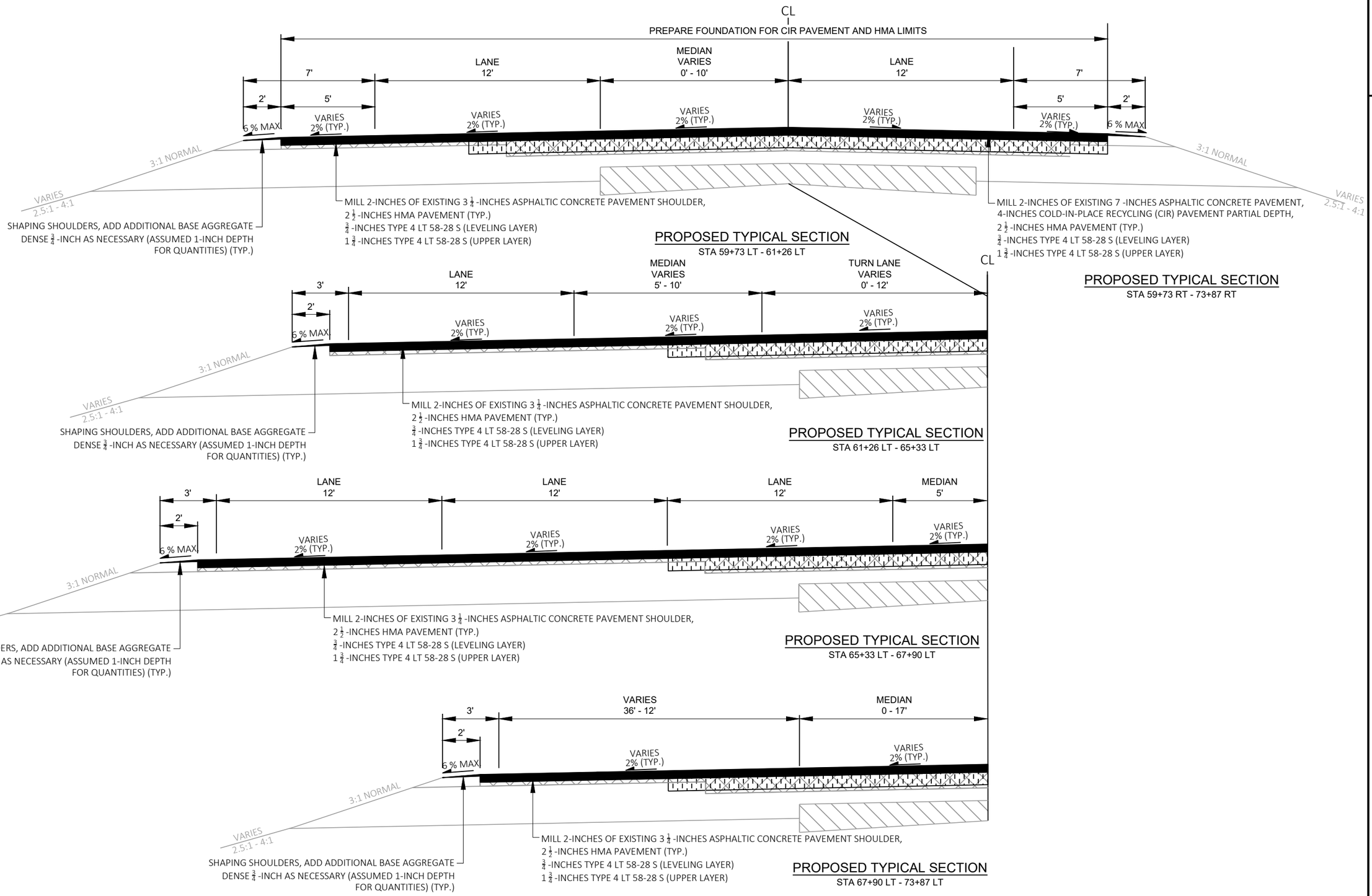
PROPOSED TYPICAL SECTION
STA 20+58 - 48+09



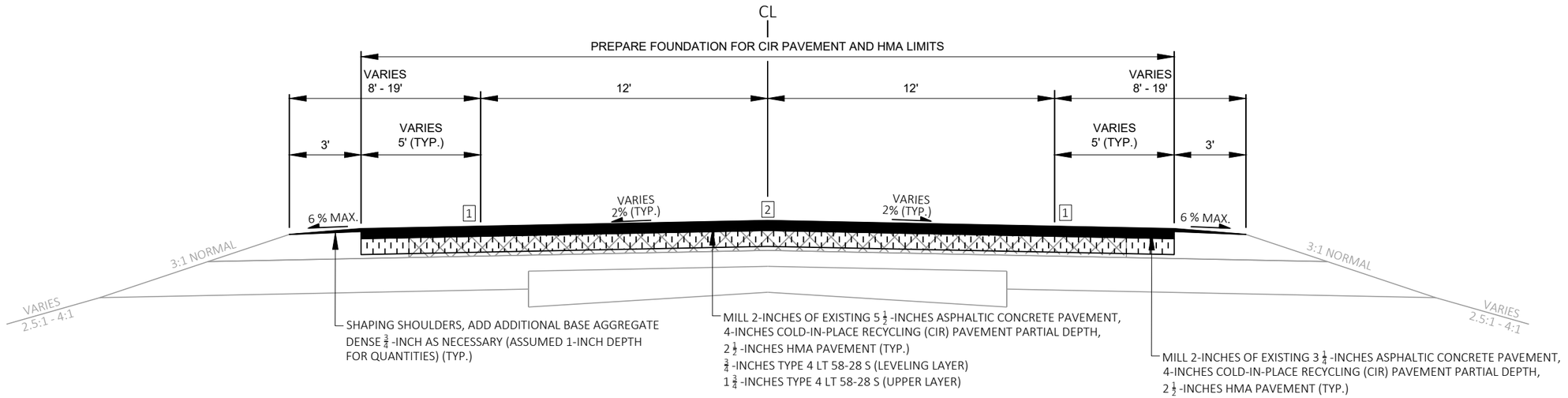
PROPOSED TYPICAL SECTION
STA 48+09 - 59+73
STA 73+87 - 79+34

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	PROPOSED TYPICAL SECTIONS	SHEET Page 7 7	E

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WISDOT/CADDS SHEET 42



PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	PROPOSED TYPICAL SECTIONS	SHEET Page 8 8	E



SHAPING SHOULDERS, ADD ADDITIONAL BASE AGGREGATE DENSE $\frac{3}{4}$-INCH AS NECESSARY (ASSUMED 1-INCH DEPTH FOR QUANTITIES) (TYP.)

MILL 2-INCHES OF EXISTING 5 $\frac{1}{2}$-INCHES ASPHALTIC CONCRETE PAVEMENT,
4-INCHES COLD-IN-PLACE RECYCLING (CIR) PAVEMENT PARTIAL DEPTH,
2 $\frac{1}{2}$-INCHES HMA PAVEMENT (TYP.)
$\frac{3}{4}$-INCHES TYPE 4 LT 58-28 S (LEVELING LAYER)
1 $\frac{3}{4}$-INCHES TYPE 4 LT 58-28 S (UPPER LAYER)

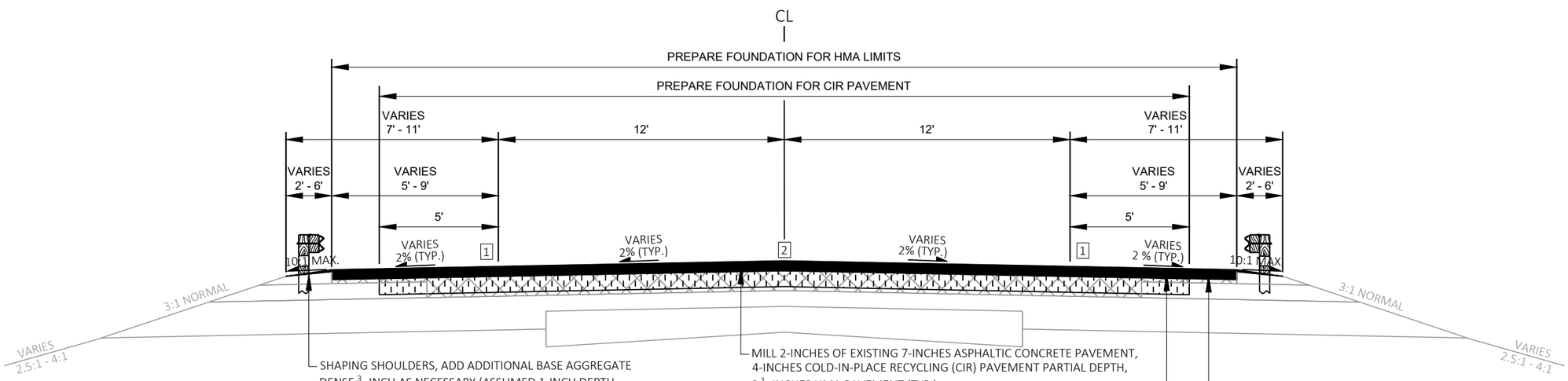
MILL 2-INCHES OF EXISTING 3 $\frac{1}{4}$-INCHES ASPHALTIC CONCRETE PAVEMENT,
4-INCHES COLD-IN-PLACE RECYCLING (CIR) PAVEMENT PARTIAL DEPTH,
2 $\frac{1}{2}$-INCHES HMA PAVEMENT (TYP.)
$\frac{3}{4}$-INCHES TYPE 4 LT 58-28 S (LEVELING LAYER)
1 $\frac{3}{4}$-INCHES TYPE 4 LT 58-28 S (UPPER LAYER)

1 ASPHALTIC SHOULDER RUMBLE STRIPS
2-LANE RURAL (TYPE 1)

2 ASPHALTIC CENTERLINE RUMBLE STRIPS
2-LANE RURAL

PROPOSED TYPICAL SECTION

STA 79+34 - 177+22
STA 181+76 - 341+06
STA 343+59 - 450+99
STA 454+05 - 566+51
STA 570+83 - 612+63



SHAPING SHOULDERS, ADD ADDITIONAL BASE AGGREGATE DENSE $\frac{3}{4}$-INCH AS NECESSARY (ASSUMED 1-INCH DEPTH FOR QUANTITIES) (TYP.)

MILL 2-INCHES OF EXISTING 7-INCHES ASPHALTIC CONCRETE PAVEMENT,
4-INCHES COLD-IN-PLACE RECYCLING (CIR) PAVEMENT PARTIAL DEPTH,
2 $\frac{1}{2}$-INCHES HMA PAVEMENT (TYP.)
$\frac{3}{4}$-INCHES TYPE 4 LT 58-28 S (LEVELING LAYER)
1 $\frac{3}{4}$-INCHES TYPE 4 LT 58-28 S (UPPER LAYER)

MILL 2-INCHES OF EXISTING 3 $\frac{1}{4}$-INCHES ASPHALTIC CONCRETE PAVEMENT,
2 $\frac{1}{2}$-INCHES HMA PAVEMENT (TYP.)
$\frac{3}{4}$-INCHES TYPE 4 LT 58-28 S (LEVELING LAYER)
1 $\frac{3}{4}$-INCHES TYPE 4 LT 58-28 S (UPPER LAYER)

MILL 2-INCHES OF EXISTING 3 $\frac{1}{4}$-INCHES ASPHALTIC CONCRETE PAVEMENT,
4-INCHES COLD-IN-PLACE RECYCLING (CIR) PAVEMENT PARTIAL DEPTH,
2 $\frac{1}{2}$-INCHES HMA PAVEMENT (TYP.)
$\frac{3}{4}$-INCHES TYPE 4 LT 58-28 S (LEVELING LAYER)
1 $\frac{3}{4}$-INCHES TYPE 4 LT 58-28 S (UPPER LAYER)

1 ASPHALTIC SHOULDER RUMBLE STRIPS
2-LANE RURAL (TYPE 1)

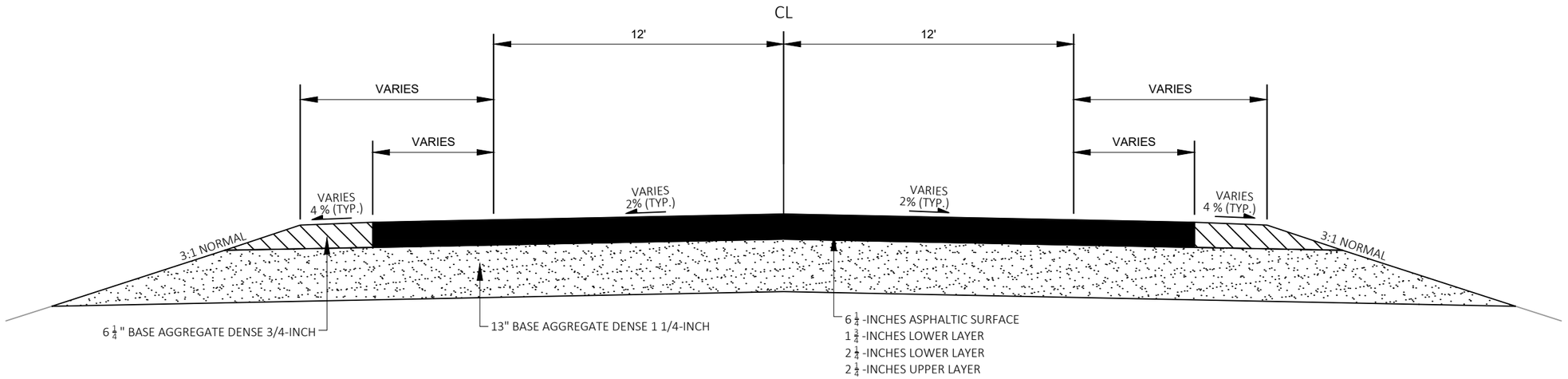
2 ASPHALTIC CENTERLINE RUMBLE STRIPS
2-LANE RURAL

PROPOSED TYPICAL SECTION

STA 177+22 - 181+76
STA 341+06 - 343+59
STA 450+99 - 454+05
STA 566+51 - 570+83

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	PROPOSED TYPICAL SECTIONS	SHEET Page 9 9	E

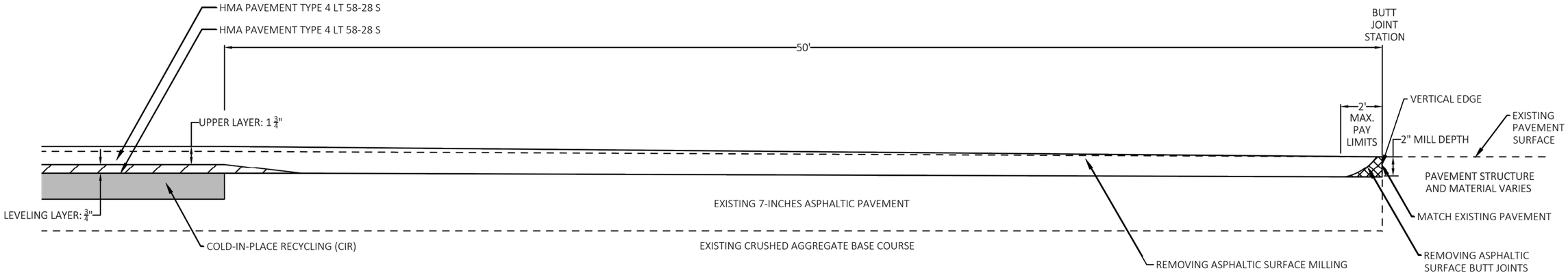
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PROPOSED TYPICAL SECTION

AT CULVERT REPLACEMENTS

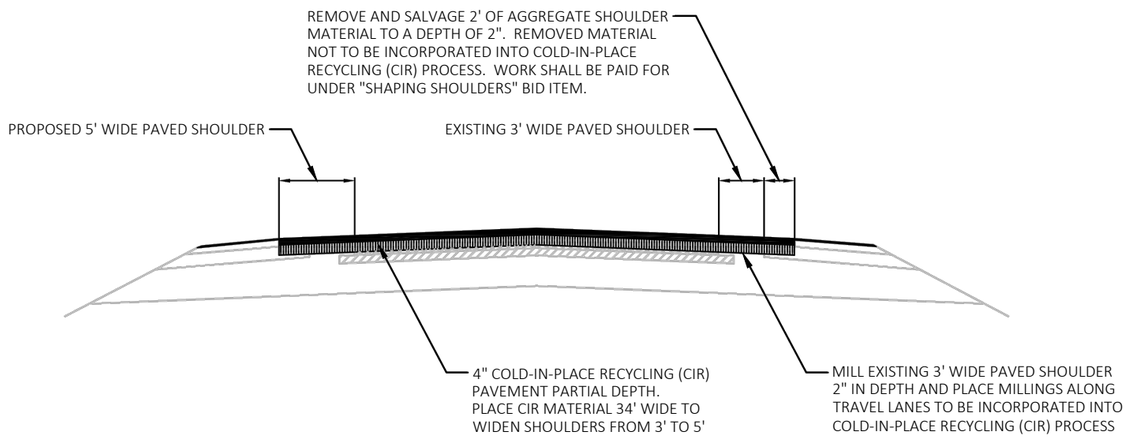
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2" UPPER LAYER AND 2" MILL DEPTH AT BUTT JOINT STATION

BUTT JOINT DETAIL FOR MILLED ASPHALTIC PAVEMENTS

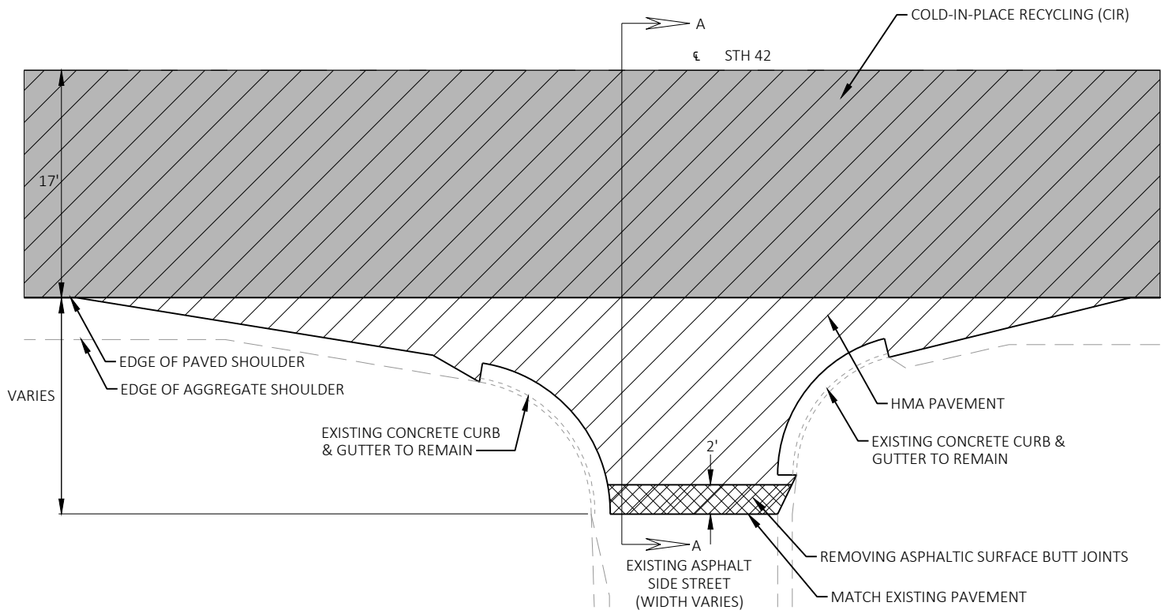
SCALE: NONE
STA 21+07 (START OF PROJECT)
STA 612+63 (END OF PROJECT)



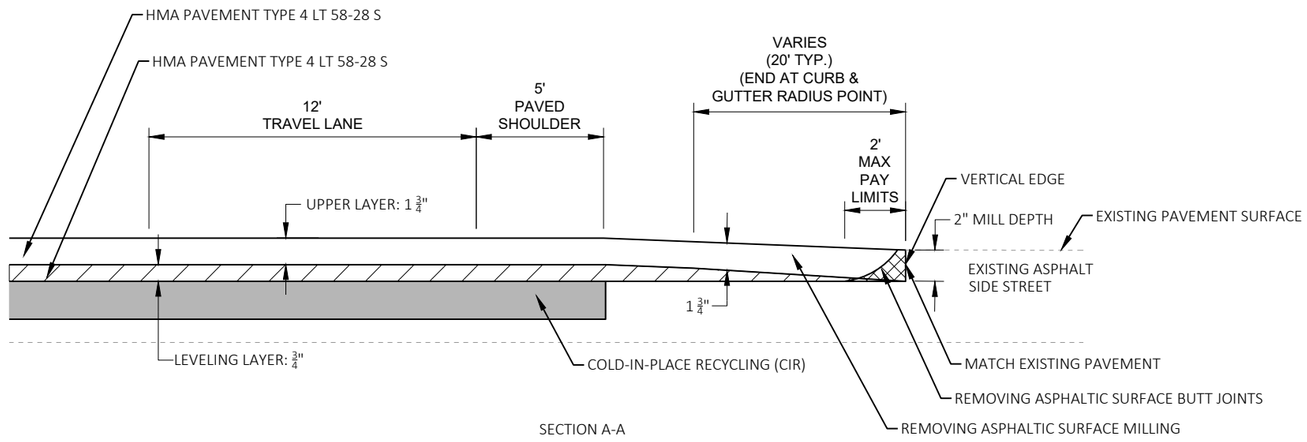
TYPICAL SECTION FOR STH 42 SHOULDER WIDENING DETAIL

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CONSTRUCTION DETAILS	SHEET Page 11 11	E

2



PLAN VIEW

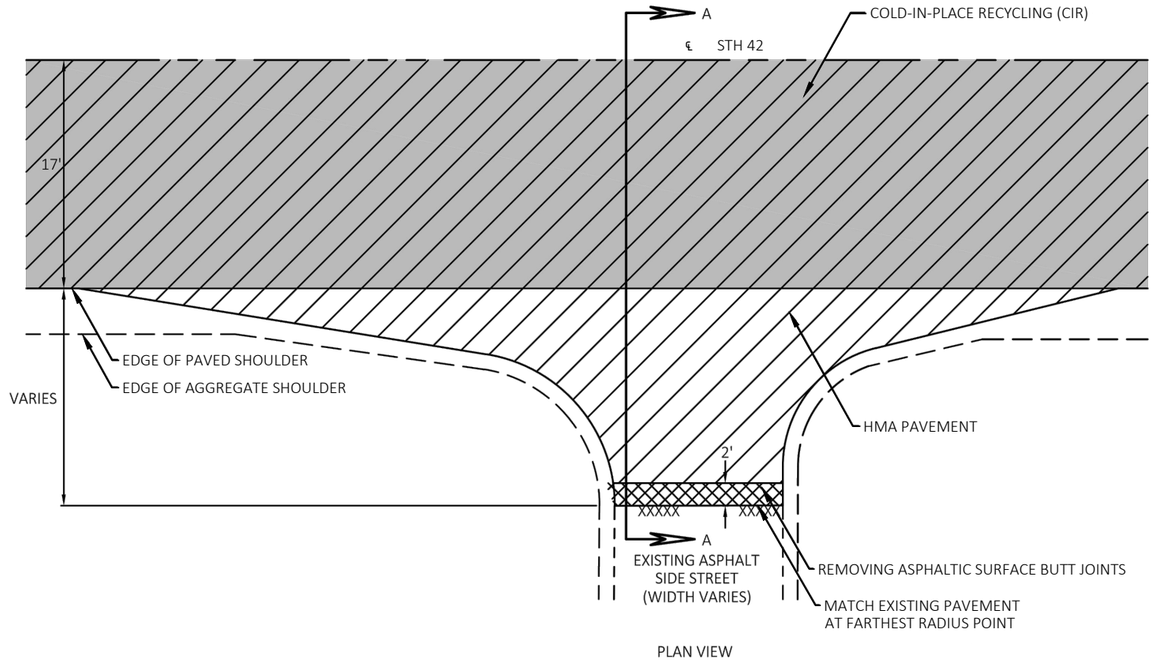


SECTION A-A

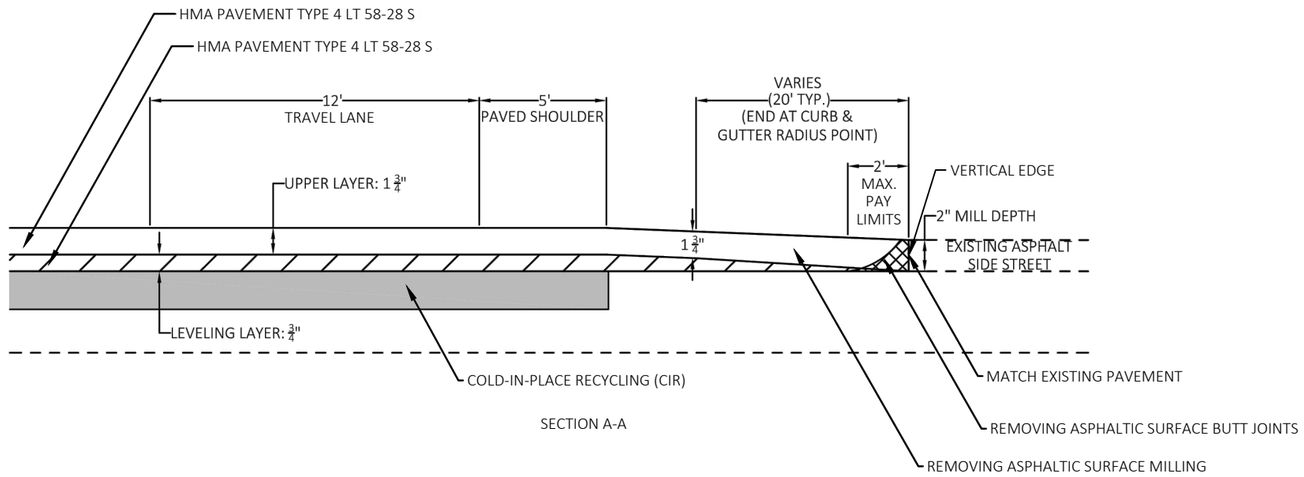
TYPE B & D INTERSECTION DETAIL

44TH STREET, SCHOOL ENTRANCE, VICEROY ROAD, E HILLCREST ROAD, RAWLEY ROAD, ELMWOOD ROAD,
LILAC DRIVE, IRISH ROAD, NUCLEAR ROAD, E TAPAWINGO ROAD, TWO CREEKS ROAD

2



PLAN VIEW

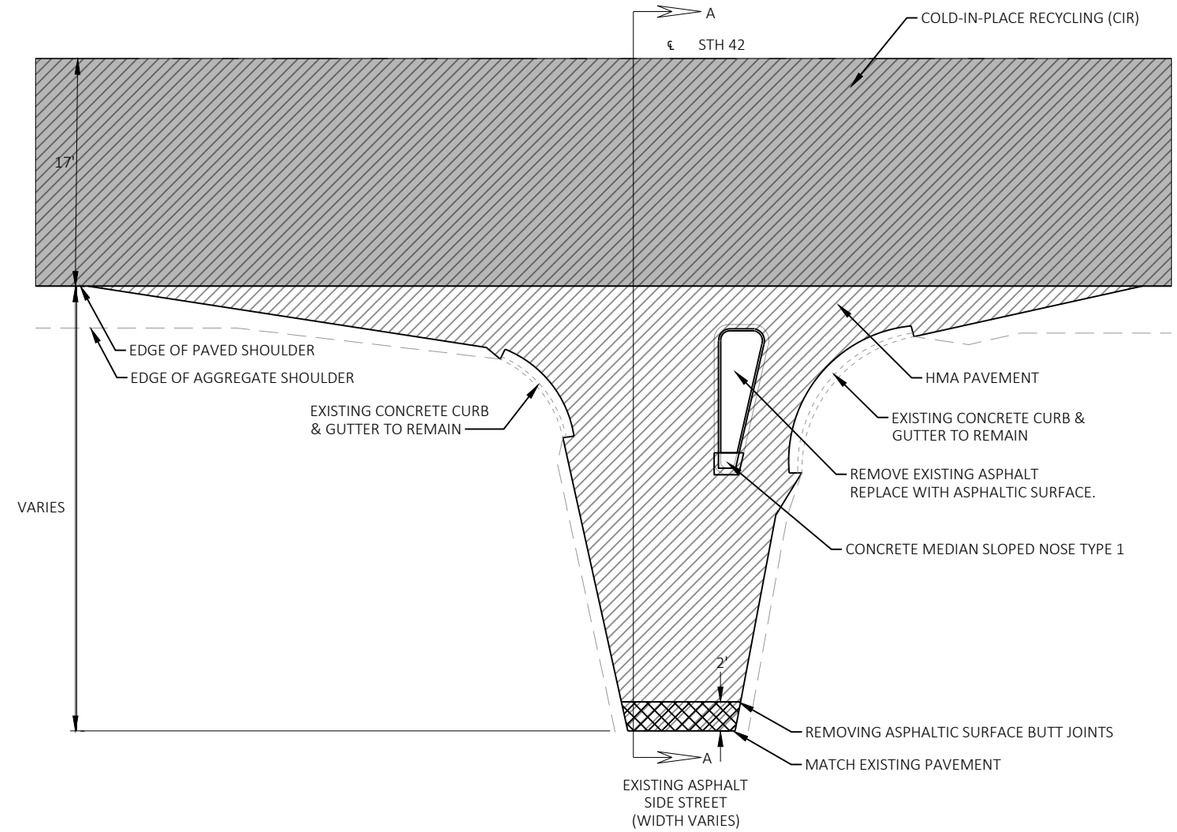


SECTION A-A

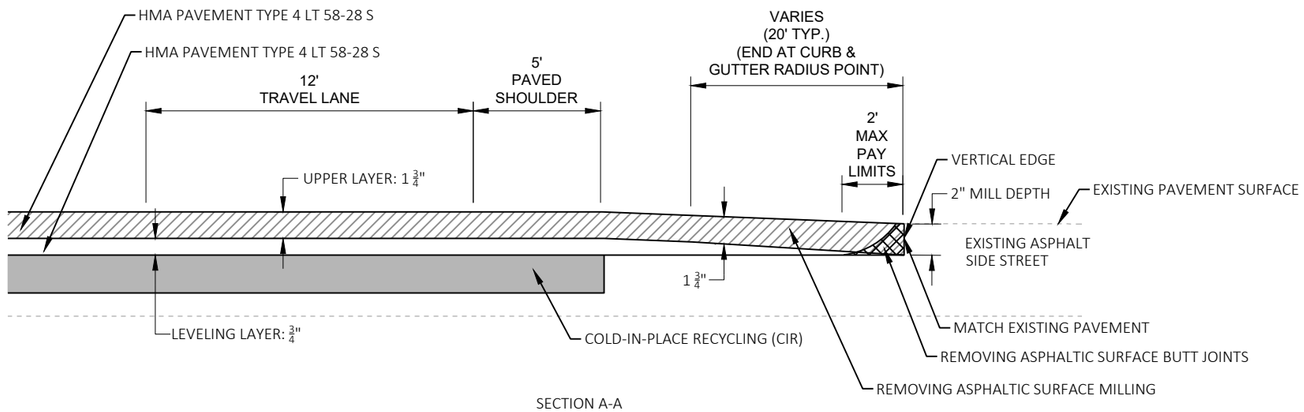
TYPE C INTERSECTION DETAIL

PLEASANT VIEW LANE, GREENFIELD LANE, LEHRMAN ROAD,
NERO ROAD, ZANDER ROAD, LAKESHORE ROAD

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CONSTRUCTION DETAILS	SHEET Page 13 13	E



PLAN VIEW

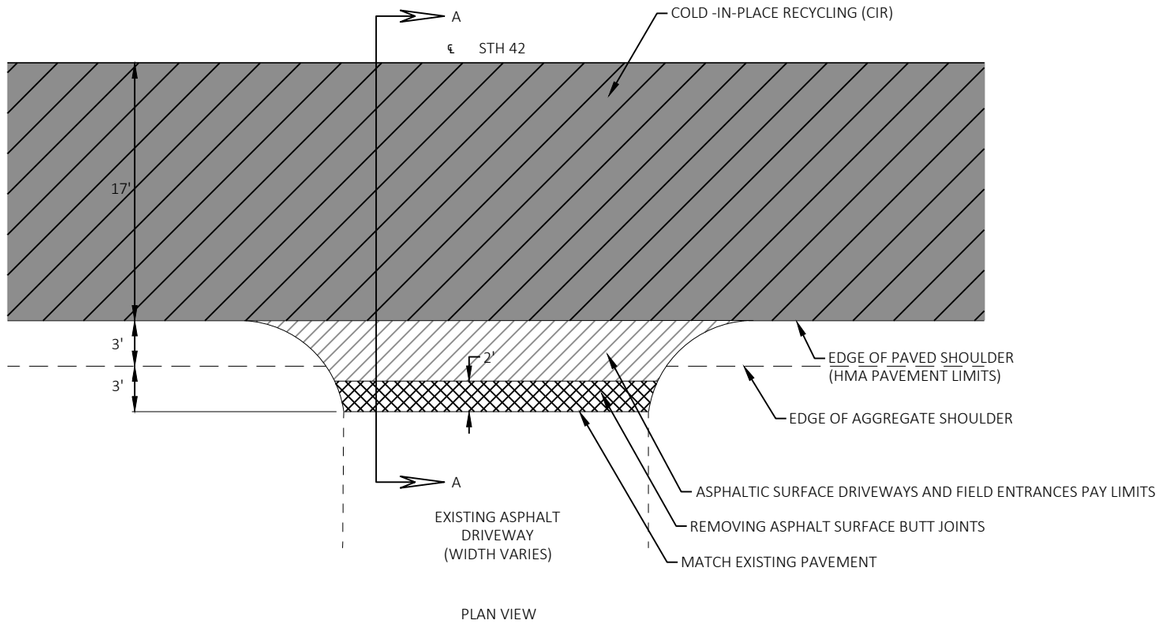


SECTION A-A

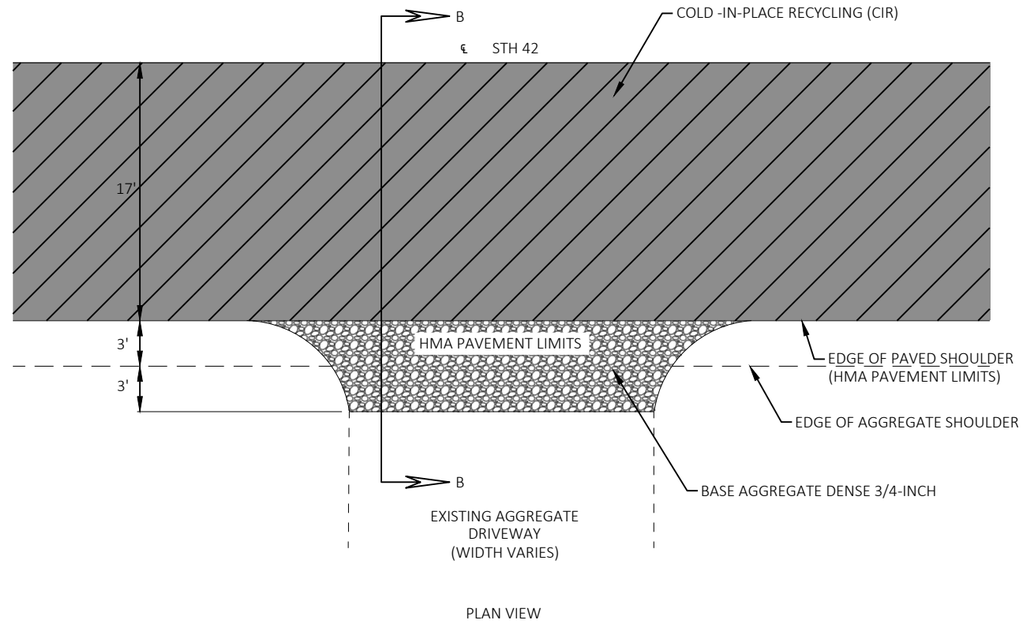
INTERSECTION WITH RIGHT TURN ISLAND DETAIL

CTH V AND CTH VV

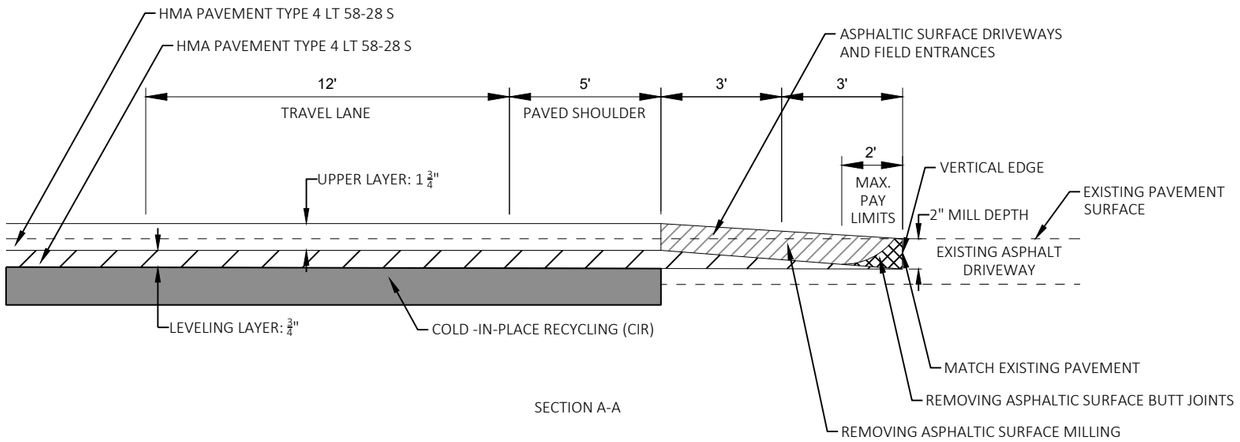
PROJECT NO: 1470-30-70	HWY: STH 42	COUNTY: MANITOWOC	CONSTRUCTION DETAILS	SHEET Page 14 14	E



PLAN VIEW

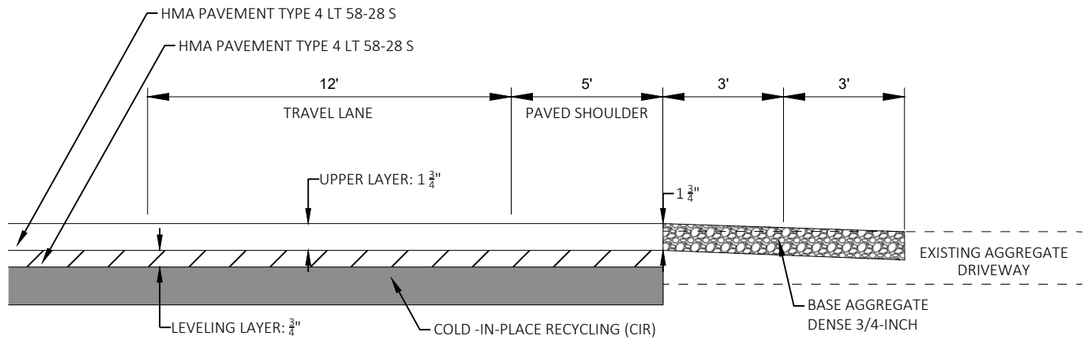


PLAN VIEW



SECTION A-A

ASPHALT DRIVEWAY



SECTION B-B

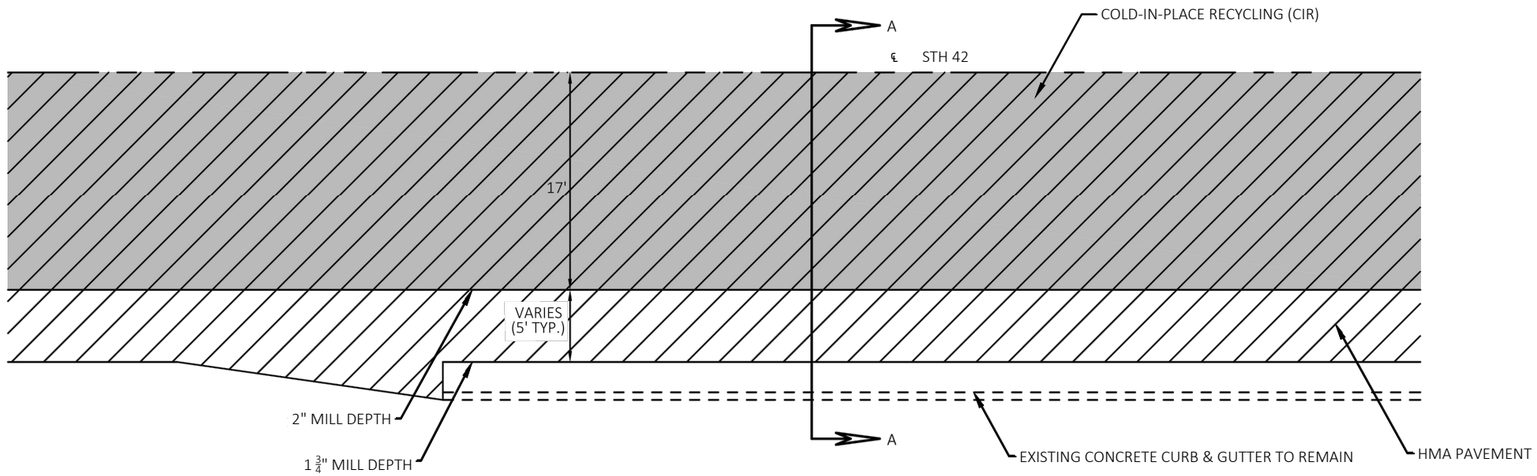
AGGREGATE DRIVEWAY

NOTE: MATCH EXISTING DRIVEWAY SURFACE AND WIDTH

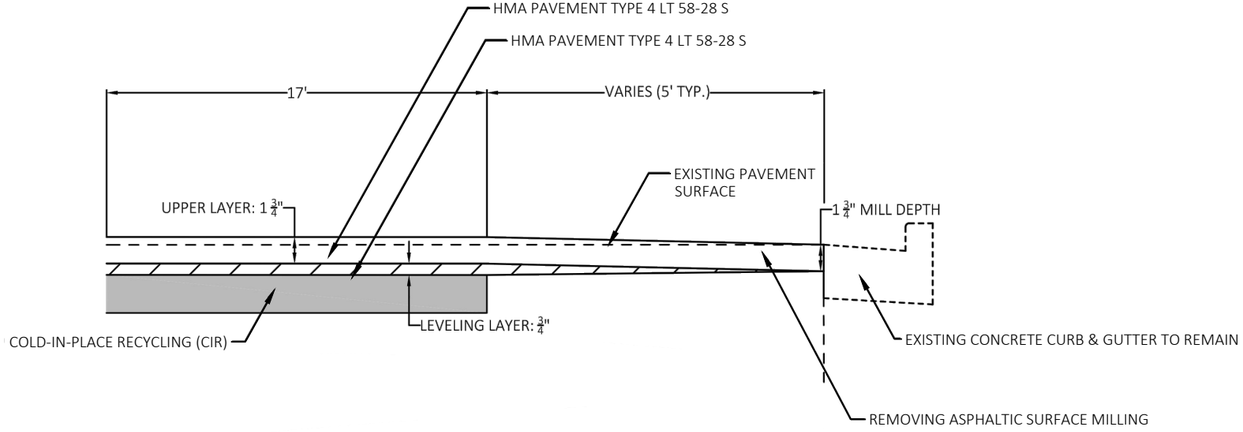
RURAL DRIVEWAY DETAIL

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CONSTRUCTION DETAILS	SHEET Page 15 15	E

2



PLAN VIEW

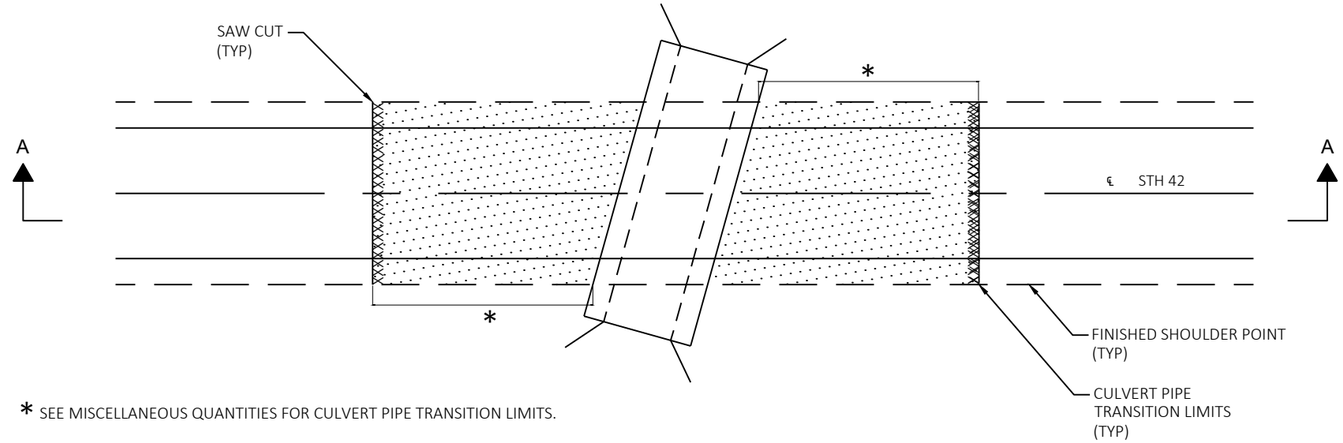


SECTION A-A

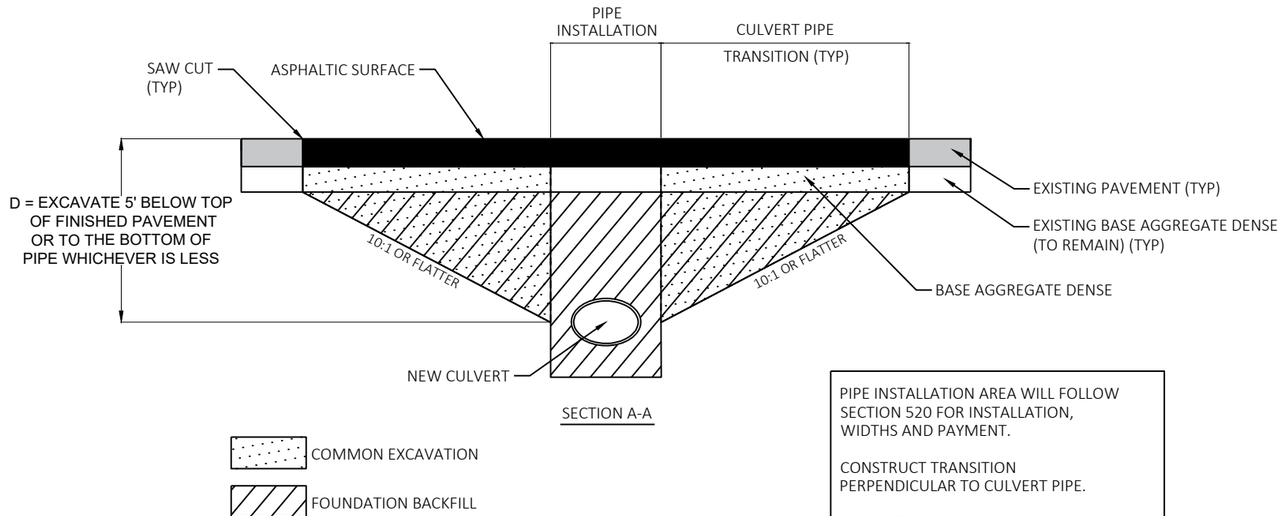
CONCRETE CURB & GUTTER SECTIONS DETAIL

STA 53+04 - STA 54+44, RT
STA 64+56 - STA 65+94, RT
STA 64+69 - STA 65+95, LT
STA 78+54 - STA 80+01, LT
STA 78+92 - STA 80+13, RT
STA 130+79 - STA 132+74, RT
STA 131+73 - STA 132+96, LT
STA 184+47 - STA 185+81, RT
STA 237+03 - STA 238+34, RT
STA 237+33 - STA 238+54, LT
STA 268+14 - STA 269+50, RT
STA 290+49 - STA 291+95, RT
STA 290+67 - STA 292+14, LT
STA 396+64 - STA 397+92, RT
STA 396+83 - STA 398+11, LT
STA 449+70 - STA 450+98, RT
STA 449+86 - STA 451+08, LT
STA 516+08 - STA 517+36, RT
STA 516+23 - STA 517+52, LT

2



* SEE MISCELLANEOUS QUANTITIES FOR CULVERT PIPE TRANSITION LIMITS.



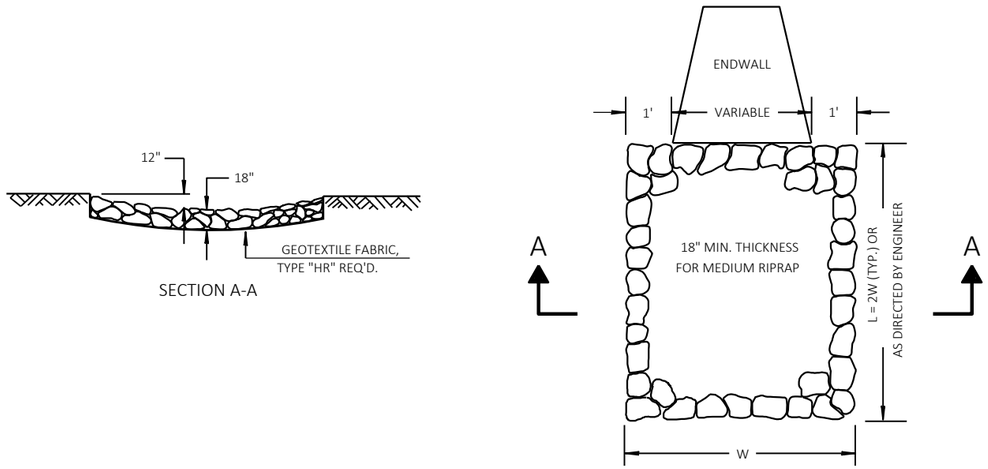
PIPE INSTALLATION AREA WILL FOLLOW SECTION 520 FOR INSTALLATION, WIDTHS AND PAYMENT.

CONSTRUCT TRANSITION PERPENDICULAR TO CULVERT PIPE.

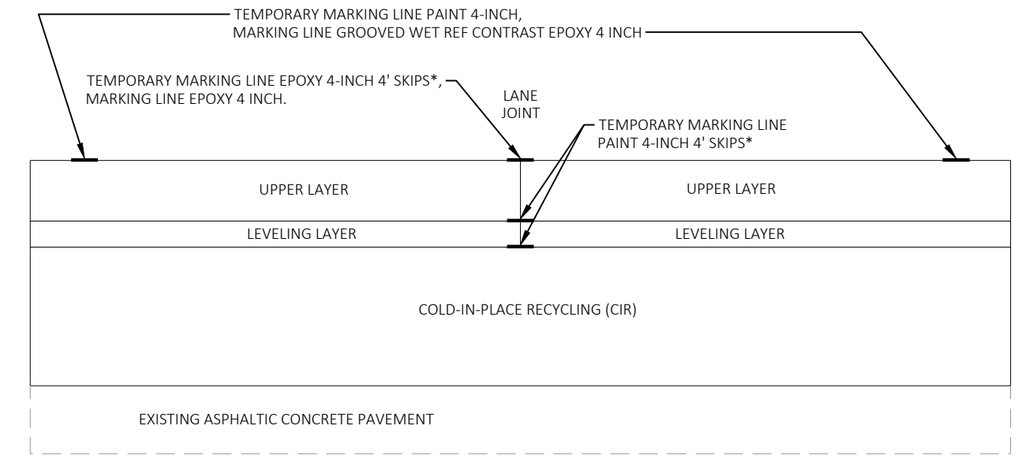
CULVERT PIPE TRANSITION AREAS WILL BE PAID BY COMMON EXCAVATION & SPV FOUNDATION BACKFILL.

PAVEMENT SAW CUT TO BE PERPENDICULAR TO ROADWAY ALIGNMENT.

NEW CULVERT PIPES WITH TRANSITION

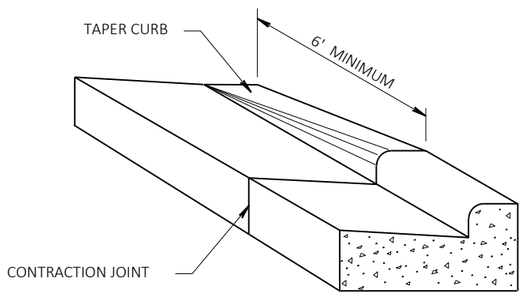


RIPRAP TREATMENT AT CULVERTS



* IF TEMPORARY MARKING LINE IS IN PLACE FOR OVER TWO WEEKS WHILE ROADWAY IS OPEN TO TRAFFIC, NO PASSING ZONES NEED TO BE STRIPED.

ASPHALTIC LAYERING DETAIL FOR PAVEMENT MARKING PLACEMENT



DETAIL OF CURB & GUTTER TERMINI

2

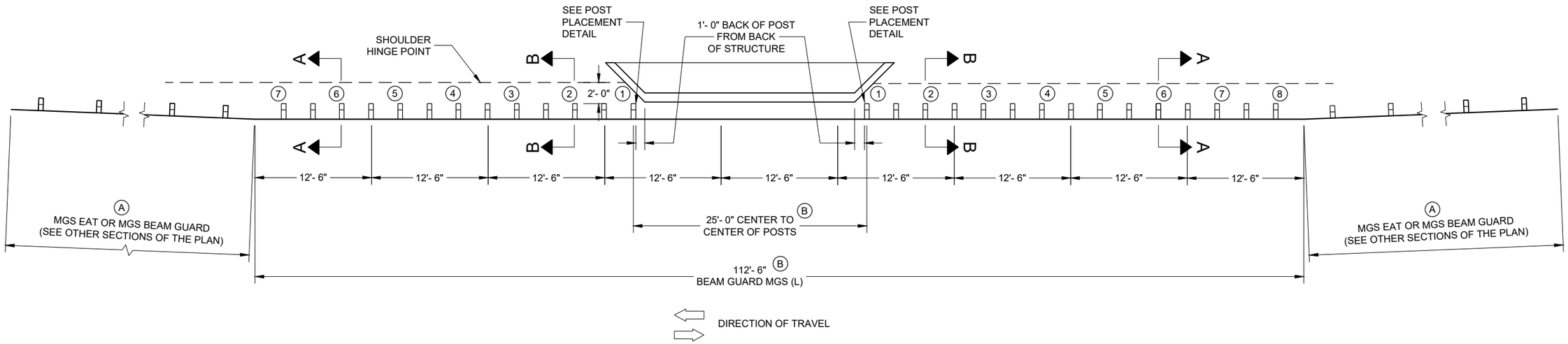
GENERAL NOTES

POSTS 1 THROUGH 3 ARE CRT POSTS. ALL OTHER POSTS SHALL BE WOOD OR STEEL.

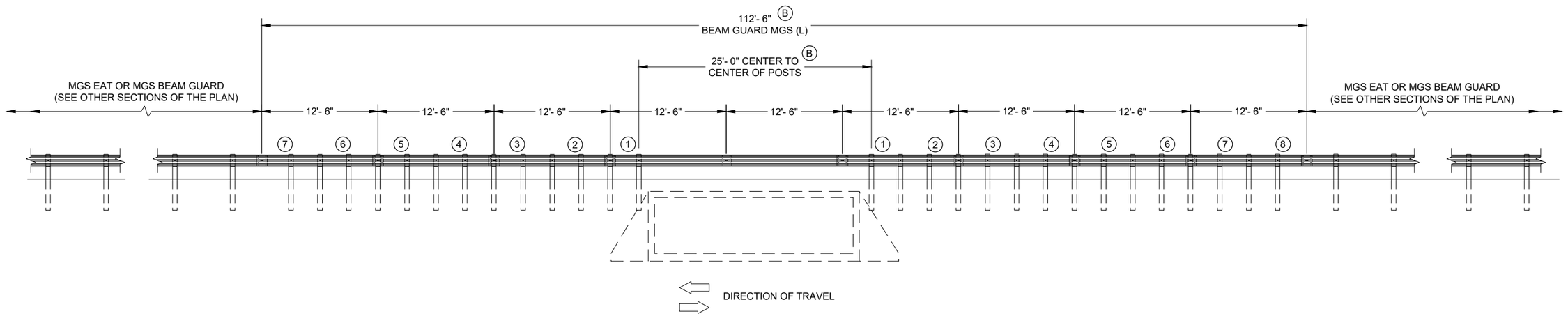
SEE SDD 14B42 FOR MORE DETAILS.

(A) FLARE FOR MGS EAT SHOWN. IF INSTALLING MGS NO FLARE REQUIRED.

(B) VALUES SHOWN ON DRAWING REPRESENT THE MAXIMUM LENGTH. SHORTER DIMENSIONS ARE POSSIBLE. SEE OTHER SECTION OF PLAN FOR MORE INFORMATION.



PLAN VIEW



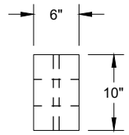
ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L) TWO WAY TRAFFIC

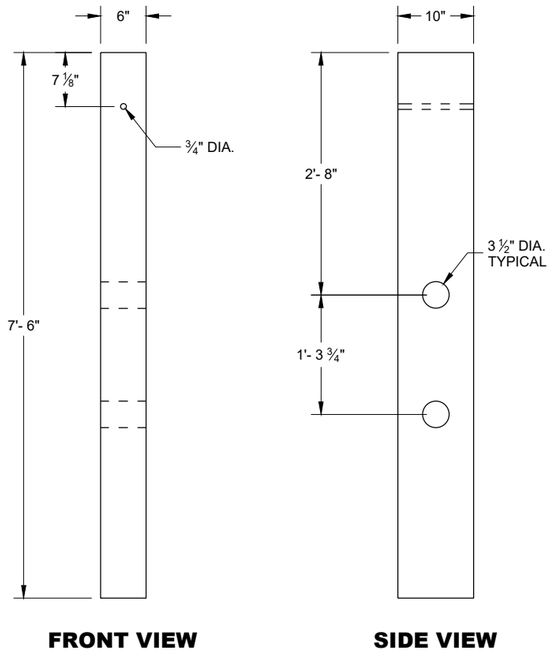
2

GENERAL NOTES

Ⓒ TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

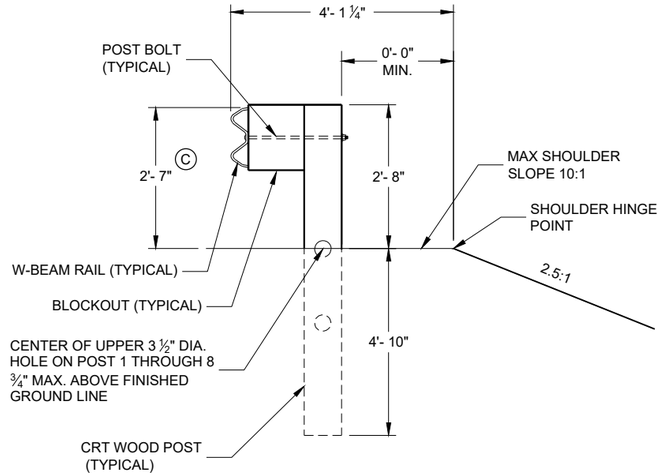


PLAN VIEW



FRONT VIEW **SIDE VIEW**

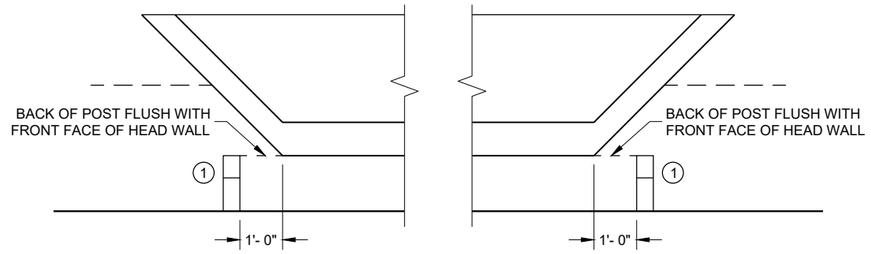
CRT WOOD POST



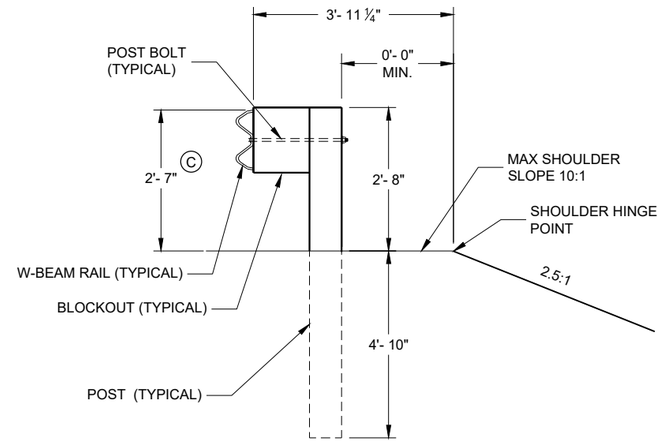
SECTION B-B

POSTS NO. 1 - 3

SEE OTHER DETAILS



POST PLACEMENT DETAIL



SECTION A-A

POSTS NO. 4 - 8

SEE OTHER DETAILS

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CONSTRUCTION DETAIL	SHEET Page 20 20	E

2

CP PK NAIL #100901
STA 28+29.04, -19.79' LT
Y=328818.075
X=259428.312

STH 42

28+00

27+00

26+00

25+00

WPS

WETLANDS

INVERT: STA 26+21.29, -41.04' LT

SI

APRON ENDWALL FOR CP 36-INCH

REMOVE EXISTING 36" CMCP

CP PK NAIL #100900
STA 25+90.01, -19.33' LT
Y=328579.059
X=259430.739

FRONTIER NORTH

WETLANDS

CITY OF TWO RIVERS-SANITARY

SI

APRON ENDWALL FOR CP 36-INCH

INVERT: STA 26+21.29, 40.96' RT

STA 26+23
CP NON-METAL CLASS III-A 36-INCH
INVERT 1: 609.50
INVERT 2: 609.07
LENGTH: 82 FT
SLOPE: 0.52%
SKEW 0°

WPS

CITY OF TWO RIVERS-WATER

WPS

622.873

622.736

622.612

622.490

T 20N R 24 E | T 20N R 25 E | T 19N R 24 E | T 19N R 25 E
25 30 36 31

CULVERT PIPE: A-1

101003
BM

CP PK NAIL #100903
STA 54+41.62, -29.72' LT
Y=331430.783
X=259398.975

WPS

MATCH INTO EXISTING CURB & GUTTER

+25.20
27.78' RT
632.900

CONCRETE CURB AND GUTTER
6-INCH SLOPED 36-INCH TYPE D

2.6%

R40'

+05.90
23.05' RT
633.416

STA 53+06.31
63.05' R

REMOVING CURB & GUTTER

DETAIL A

WETLANDS

CITY OF TWO RIVERS-SANITARY

INVERT: STA 52+92.04, -36.47' LT

CONCRETE MASONARY ENDWALL REQ'D

SI

INVERT: STA 52+85.21, -36.47' LT

REMOVE EXISTING 48" CMCP

PI: 52+29.39

WETLANDS

CP PK NAIL #100902
STA 51+79.57, -27.07' LT
Y=331168.468
X=259401.702

CITY OF TWO RIVERS-WATER

STH 42

54+00

53+00

52+00

CITY OF TWO RIVERS-WATER

MH

MH

44TH ST.

FRONTIER NORTH

WPS

633.844

633.898

STA 53+31

CITY OF TWO RIVERS-SANITARY

SAN

SAN

SEE DETAIL A

INVERT: STA 52+92.04, 37.53' RT

CONCRETE MASONARY ENDWALL REQ'D

WETLANDS

SI

INVERT: STA 52+85.22, 37.53' RT

633.959

634.056

634.107

STA 52+46

STA 52+90
CPRC CLASS IV 48-INCH
INVERT 1: 627.32
INVERT 2: 627.09
LENGTH: 74 FT
SLOPE: 0.30%
SKEW 0°

STA 52+83
CPRC CLASS IV 48-INCH
INVERT 1: 627.32
INVERT 2: 627.09
LENGTH: 74 FT
SLOPE: 0.30%
SKEW 0°

CITY OF TWO RIVERS-SANITARY

T 20N R 24 E | T 20N R 25 E | T 19N R 24 E | T 19N R 25 E
25 30 25 30

CULVERT PIPE: B-1 & B-2

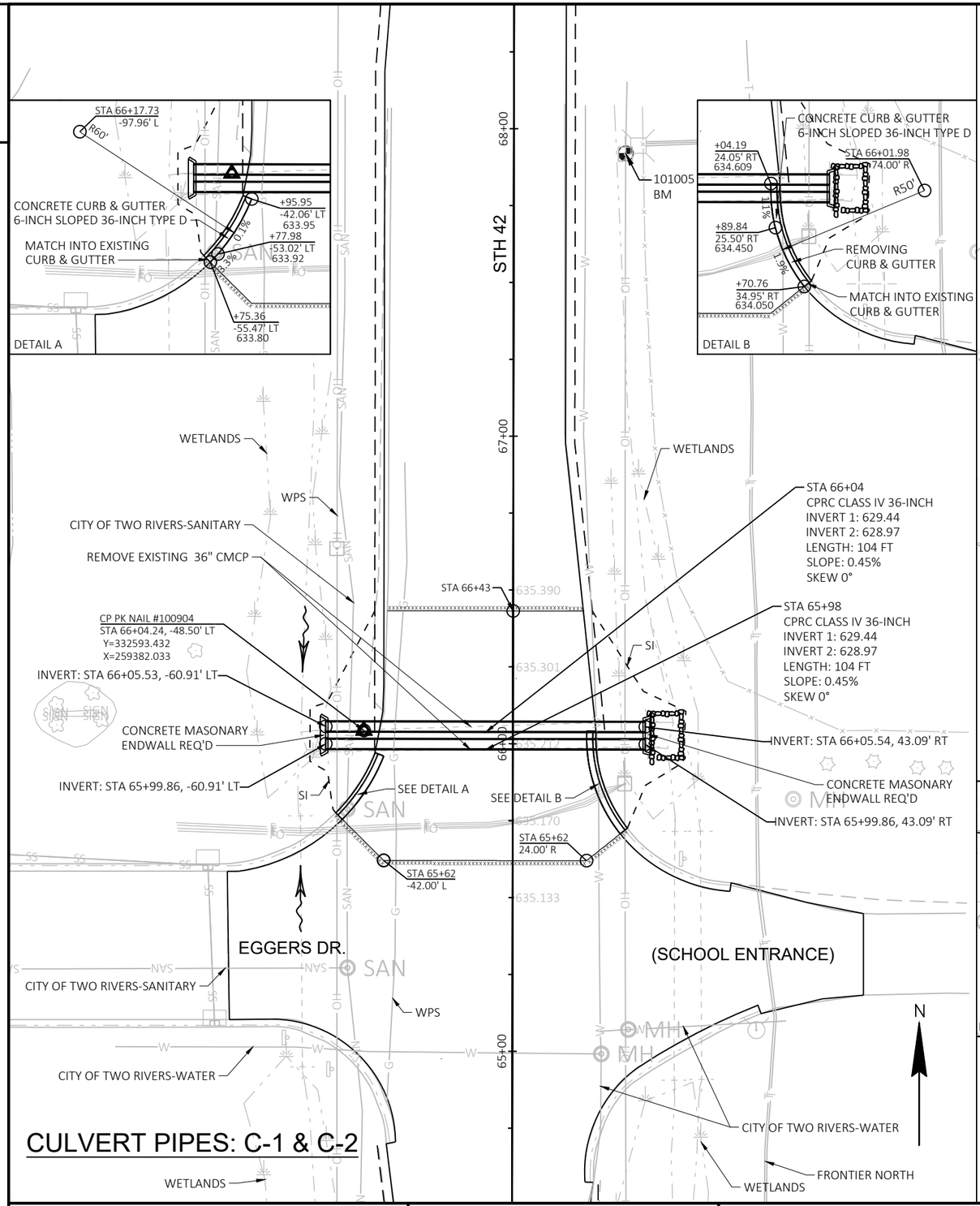
PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN DETAILS	SHEET 21	E

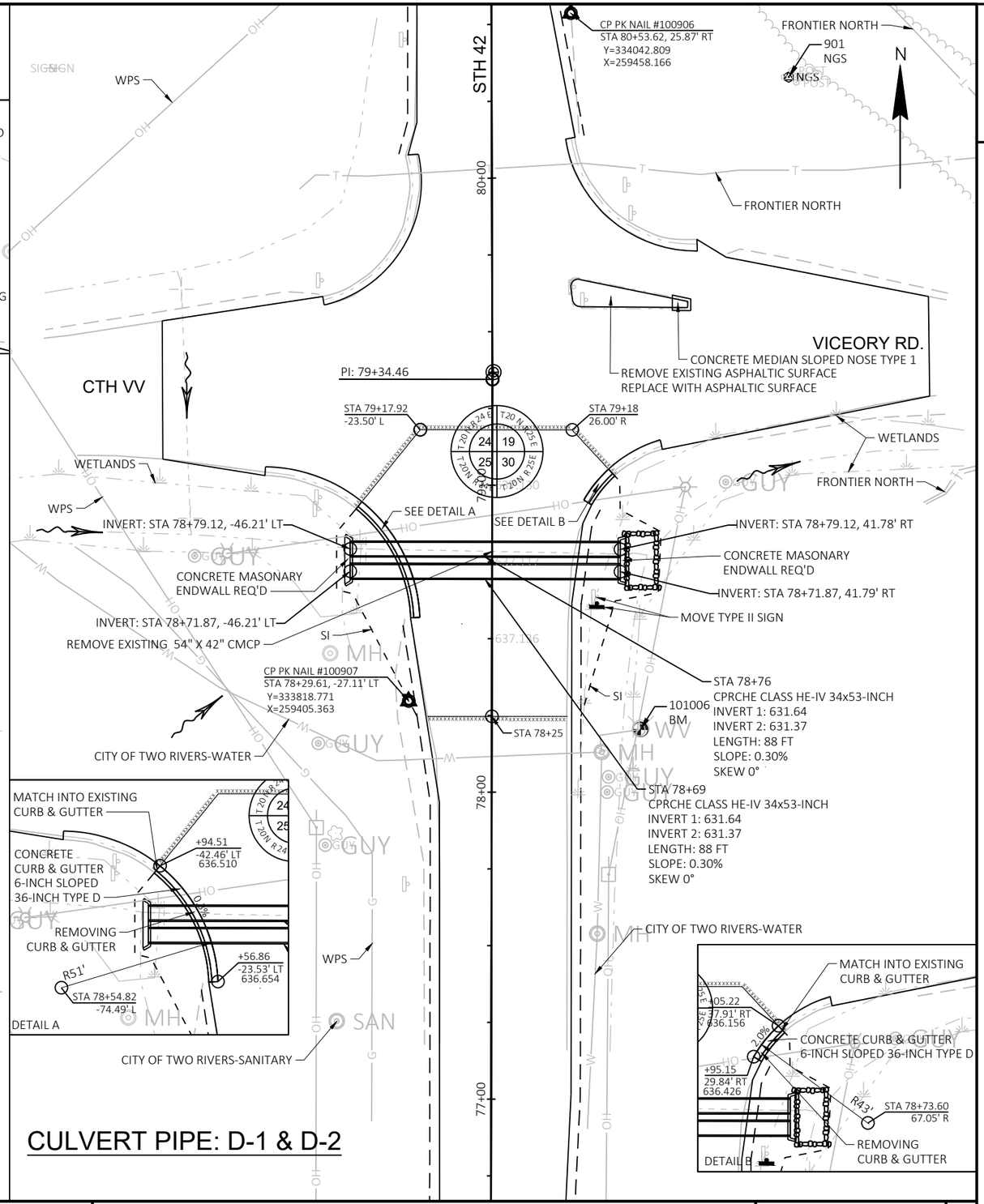
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LAYOUT NAME - 01

PLOT DATE : 7/8/2022 7:37 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

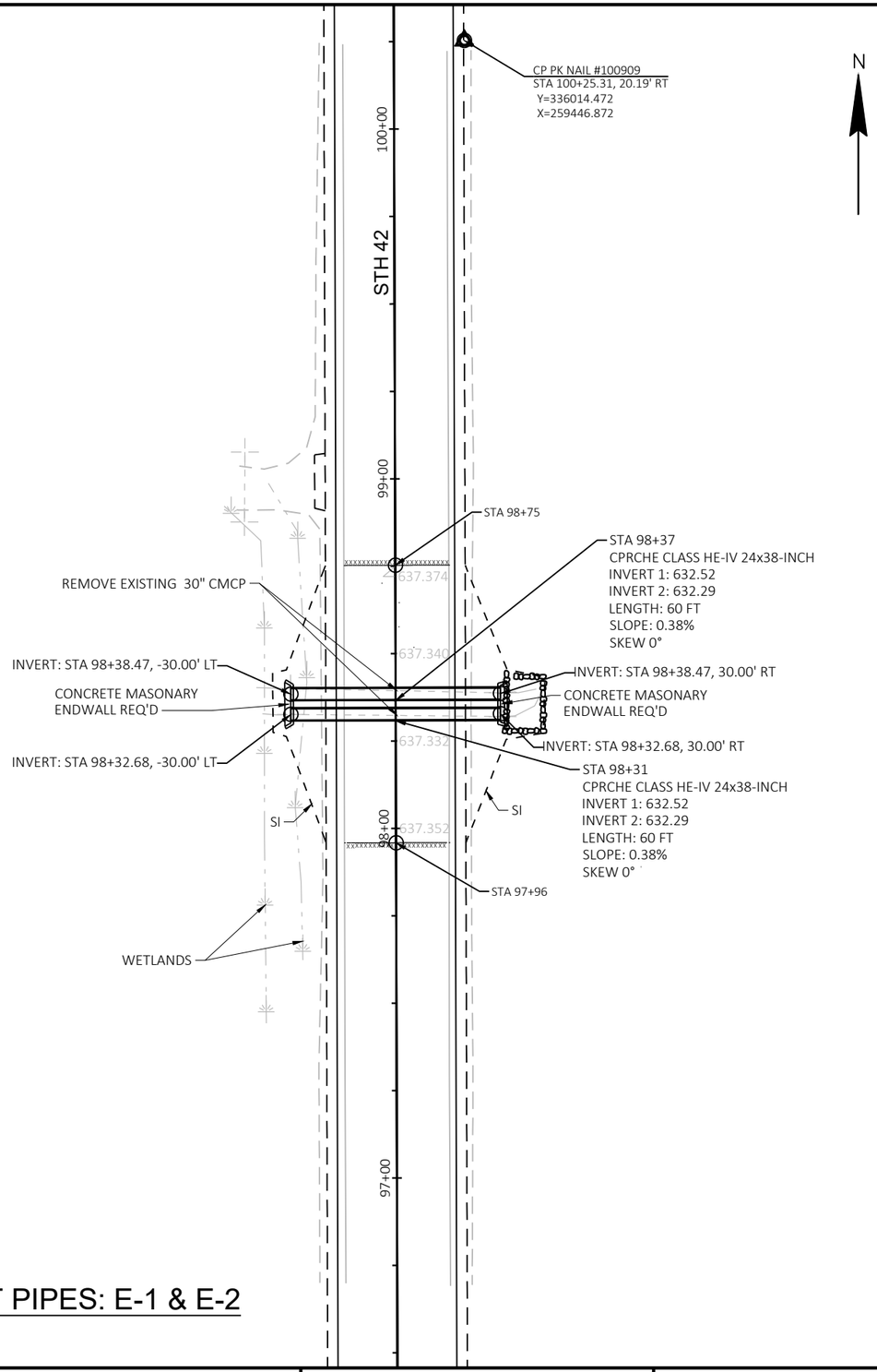
2



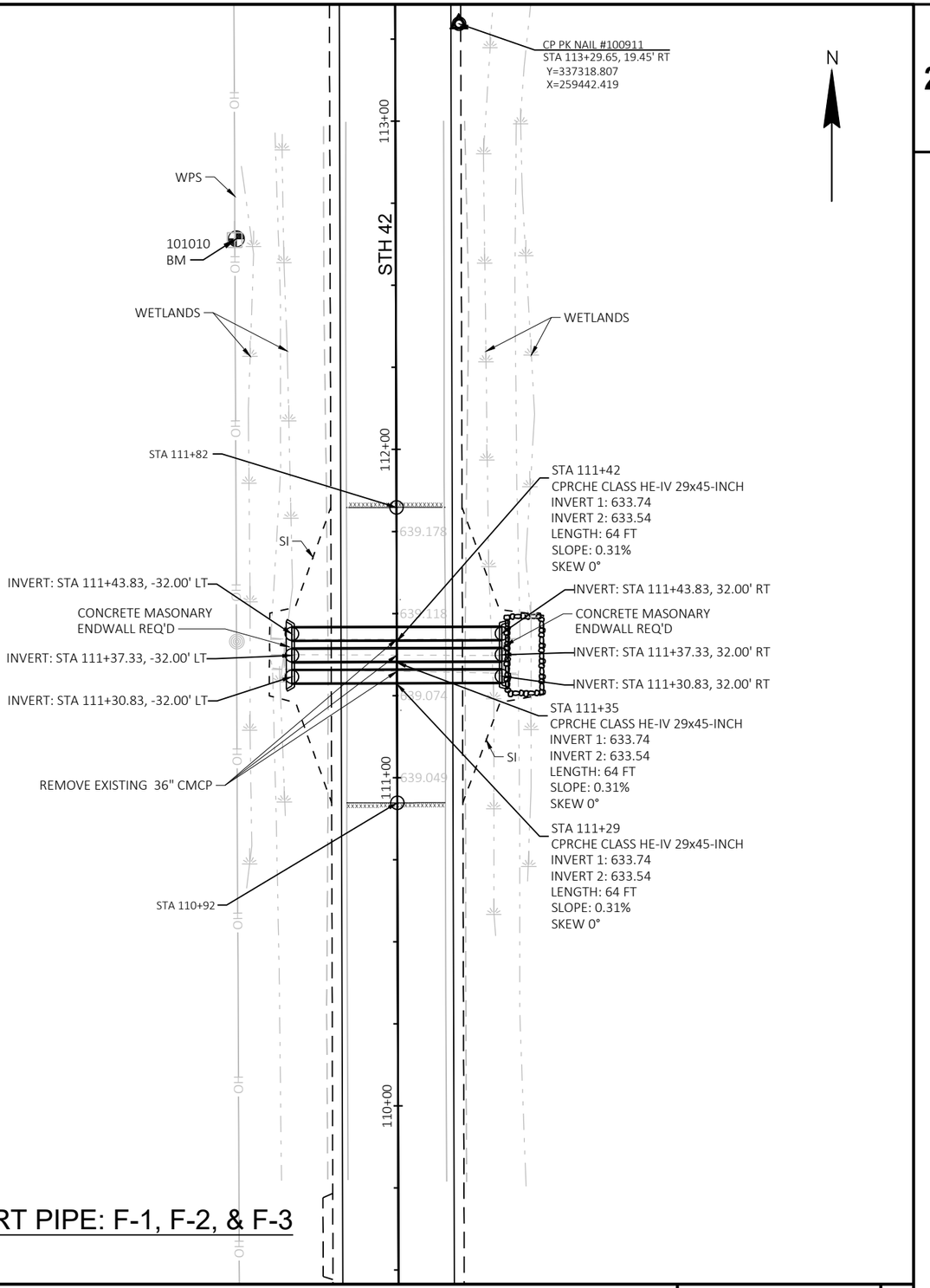


PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN DETAILS	SHEET 22	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 02
PLOT DATE : 7/8/2022 7:37 AM
PLOT BY : SCHERER, MEGAN S
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



CULVERT PIPES: E-1 & E-2



CULVERT PIPE: F-1, F-2, & F-3

2

2

N

CP PK NAIL #6338
STA 180+01.92, -124.60' LT
Y=343990.657
X=259279.892

STA 177+99.15
CP NON-METAL CLASS III-A 18-INCH
INVERT 1: 643.60
INVERT 2: 643.72
LENGTH: 24 FT
SLOPE: -0.49%

WPS

SI

WETLANDS

CP PK NAIL #919
STA 176+99.35, -20.54' LT
Y=343688.374
X=259384.779

INVERT: STA 177+87.25, -40.59' LT

INVERT: STA 178+11.19, -38.89' LT

PROPOSED R/W

EXISTING R/W

PAETEC

WETLANDS

EXISTING R/W

REMOVE 18" CMCP

REMOVE BEAM GUARD

177+00 STH 42 178+00 179+00 180+00 181+00 182+00

CULVERT C-36-0005
TO BE REPLACED BY
CULVERT C-36-0102

REMOVE BEAM GUARD

BM
1004

AT&T WISCONSIN

NGS
903

WPS

WETLANDS

AT&T WISCONSIN

WPS

EXISTING R/W

FRONTIER NORTH

SI

FRONTIER NORTH

EXISTING R/W

CP PK NAIL #920
STA 180+24.60, 17.75' RT
Y=344013.721
X=259422.176

CP PK NAIL #921
STA 181+78.95, 21.71' RT
Y=344168.083
X=259425.718

PROPOSED R/W

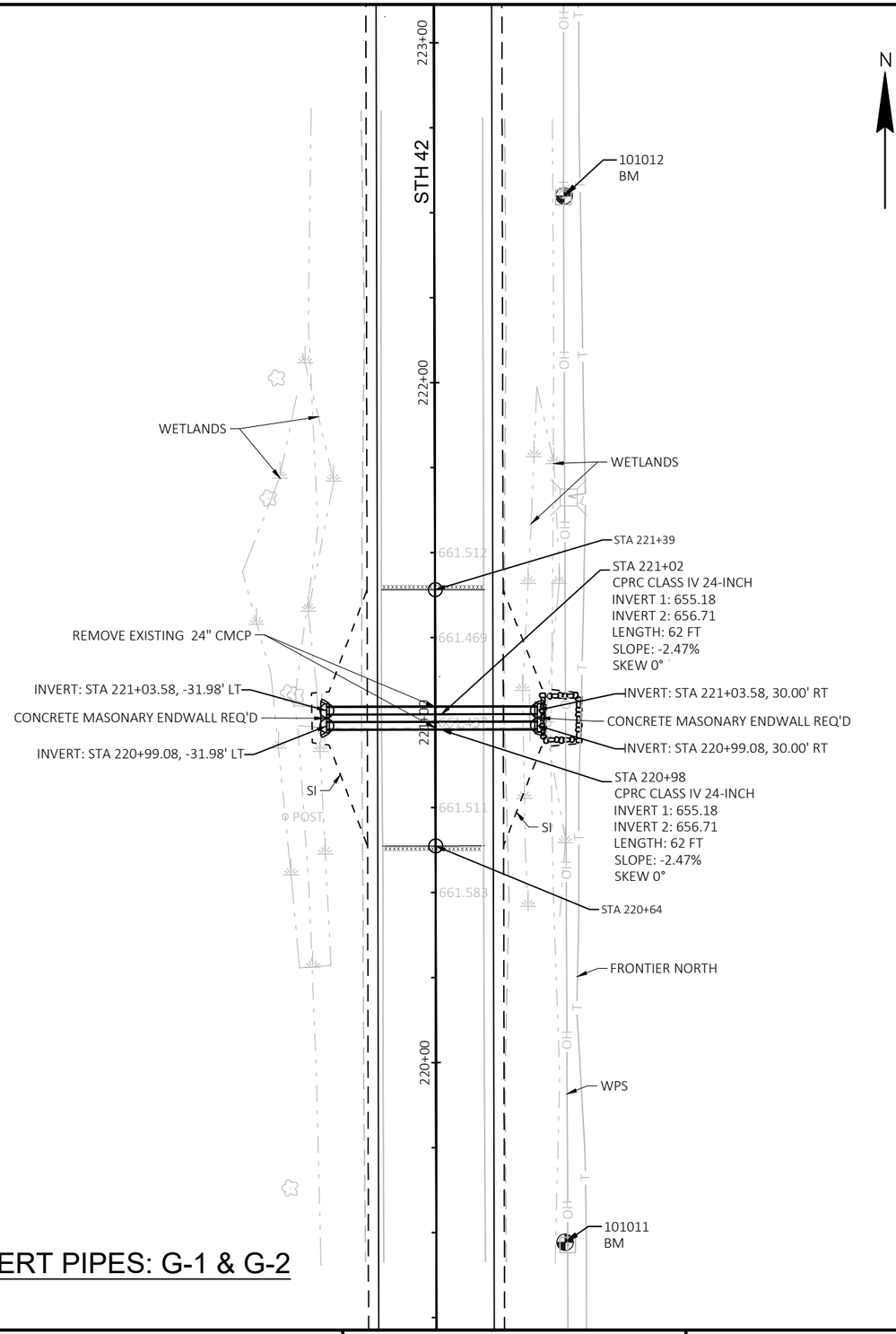
WETLANDS

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN DETAILS	SHEET 24	E

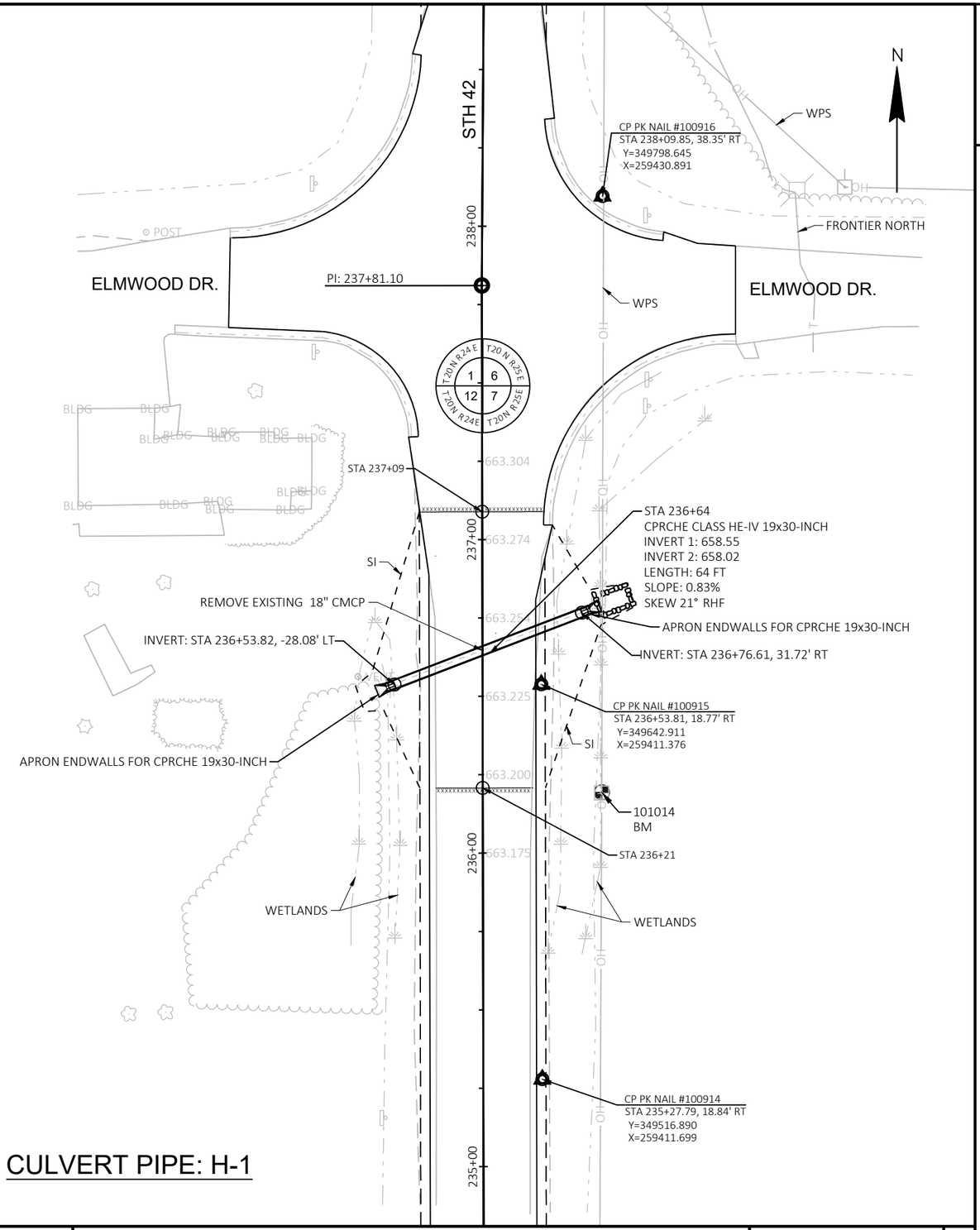
FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 04

PLOT DATE : 7/8/2022 7:38 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



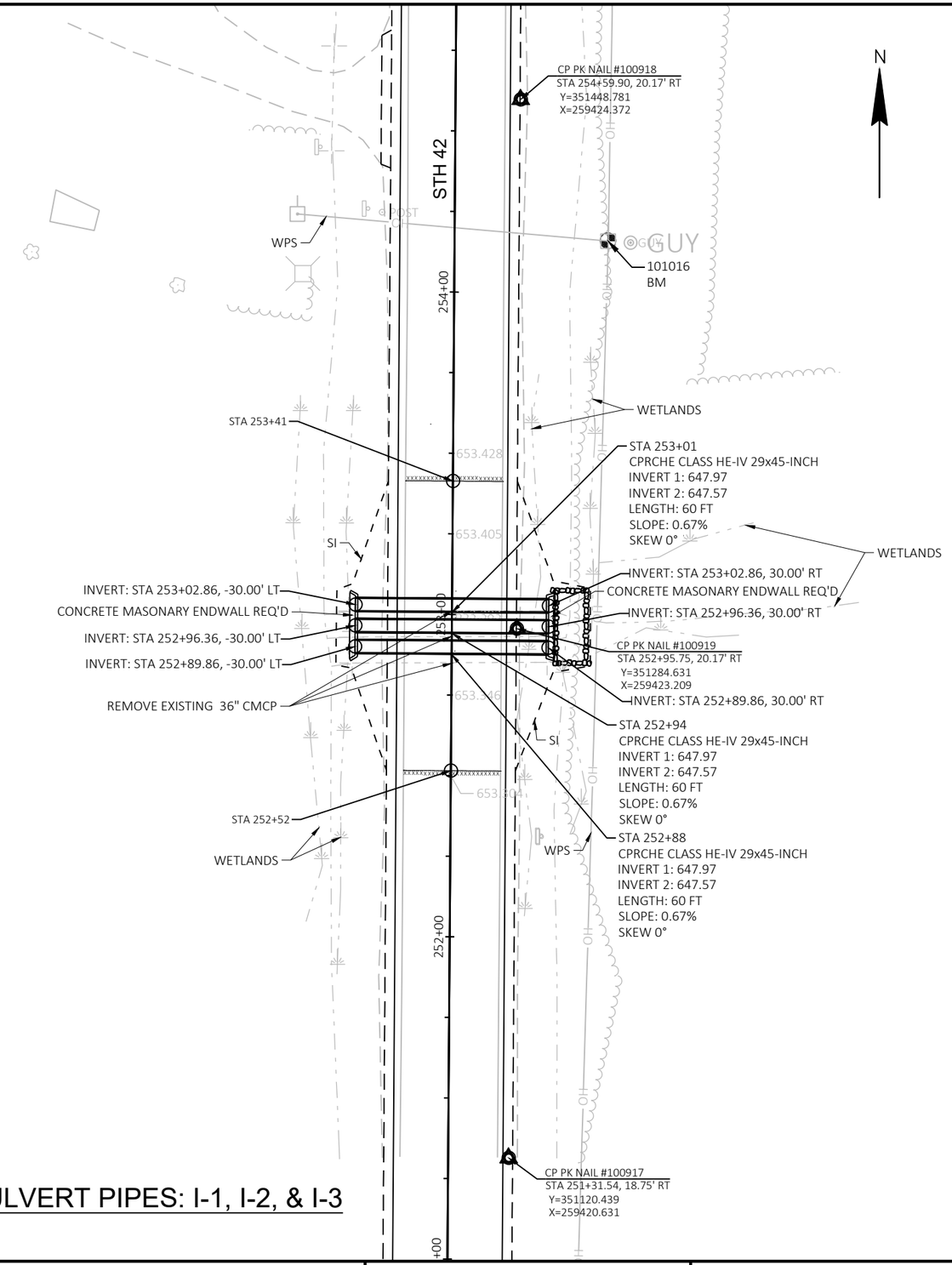
CULVERT PIPES: G-1 & G-2



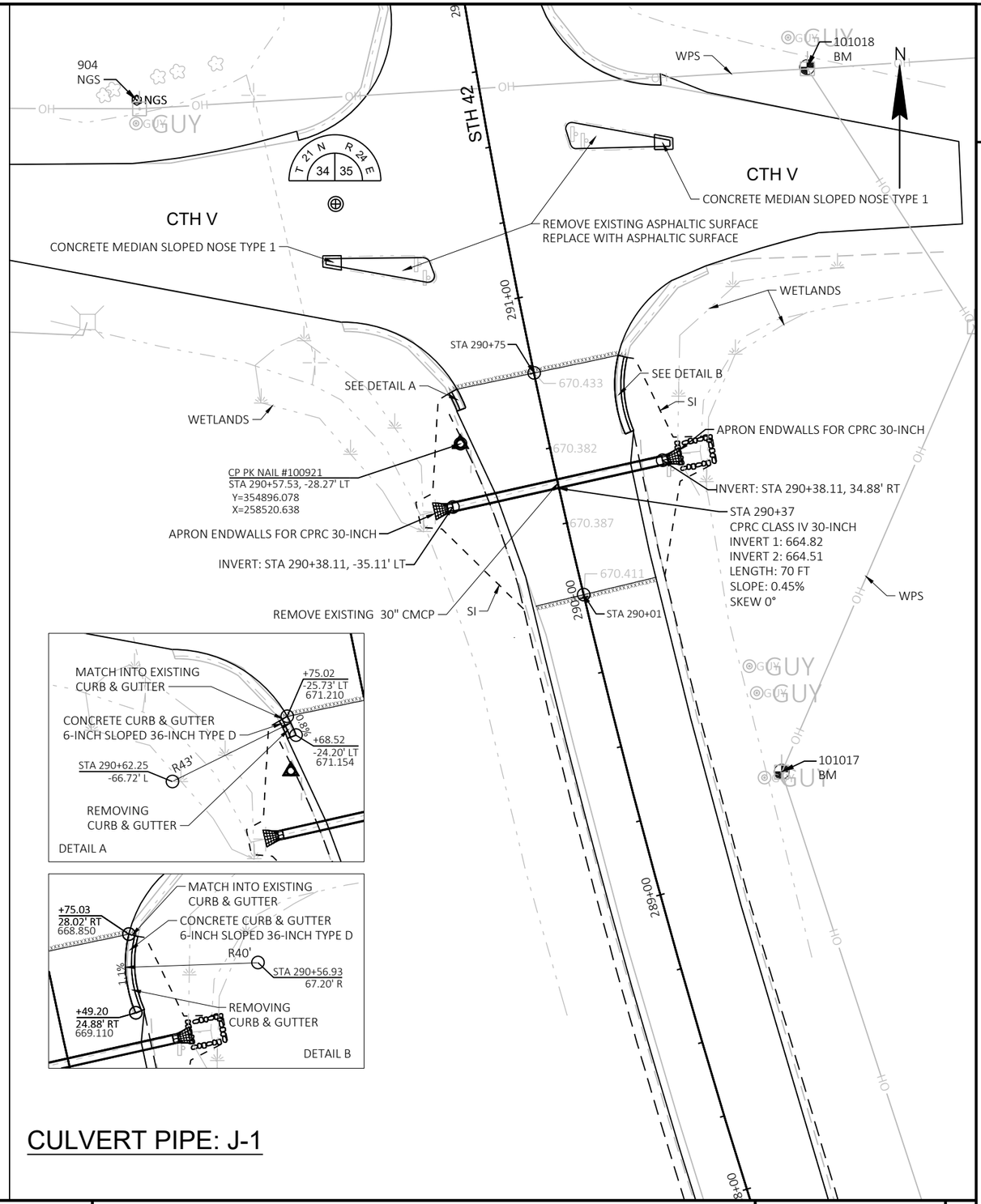
CULVERT PIPE: H-1

2

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN DETAILS	SHEET 25	E

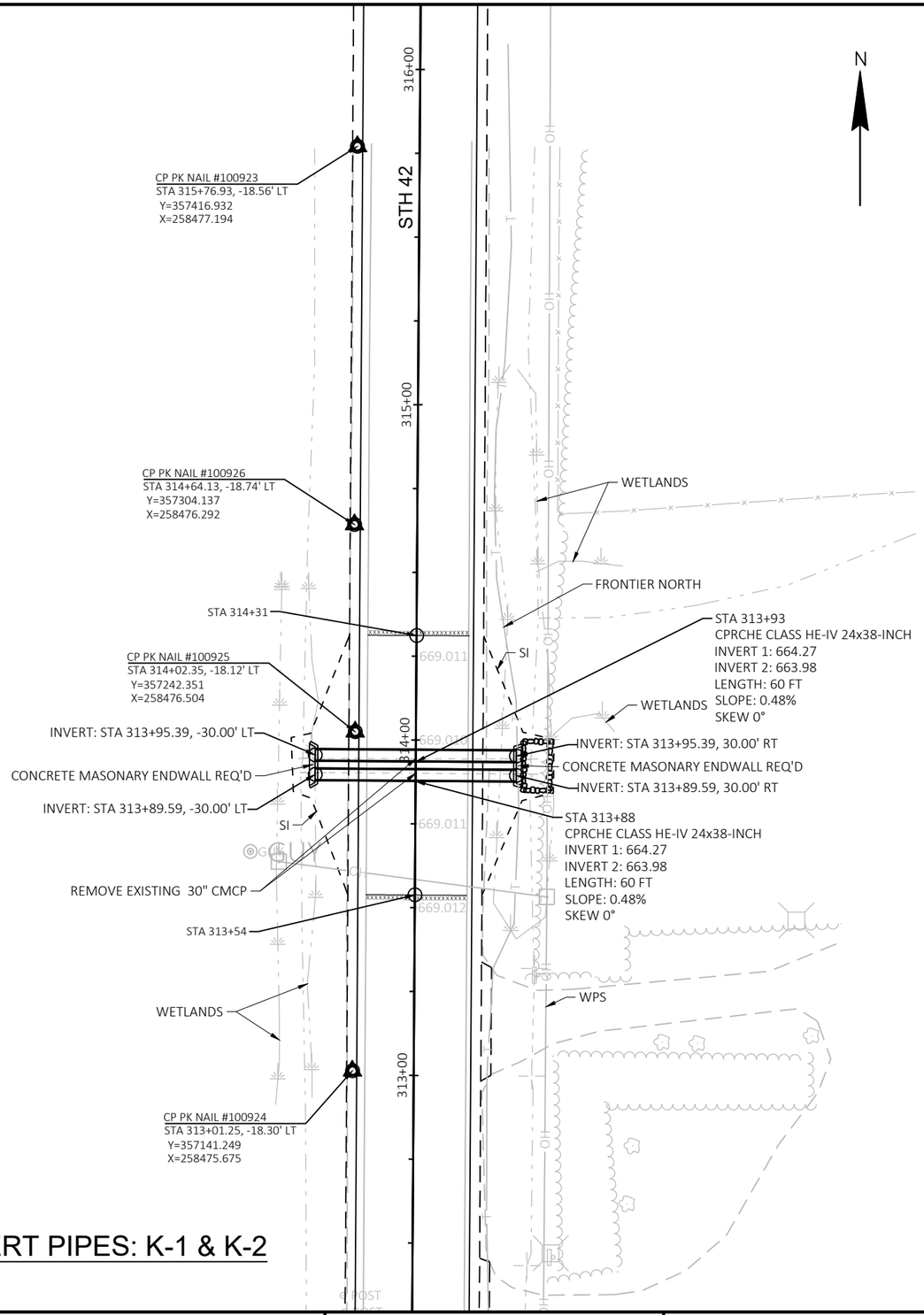


CULVERT PIPES: I-1, I-2, & I-3

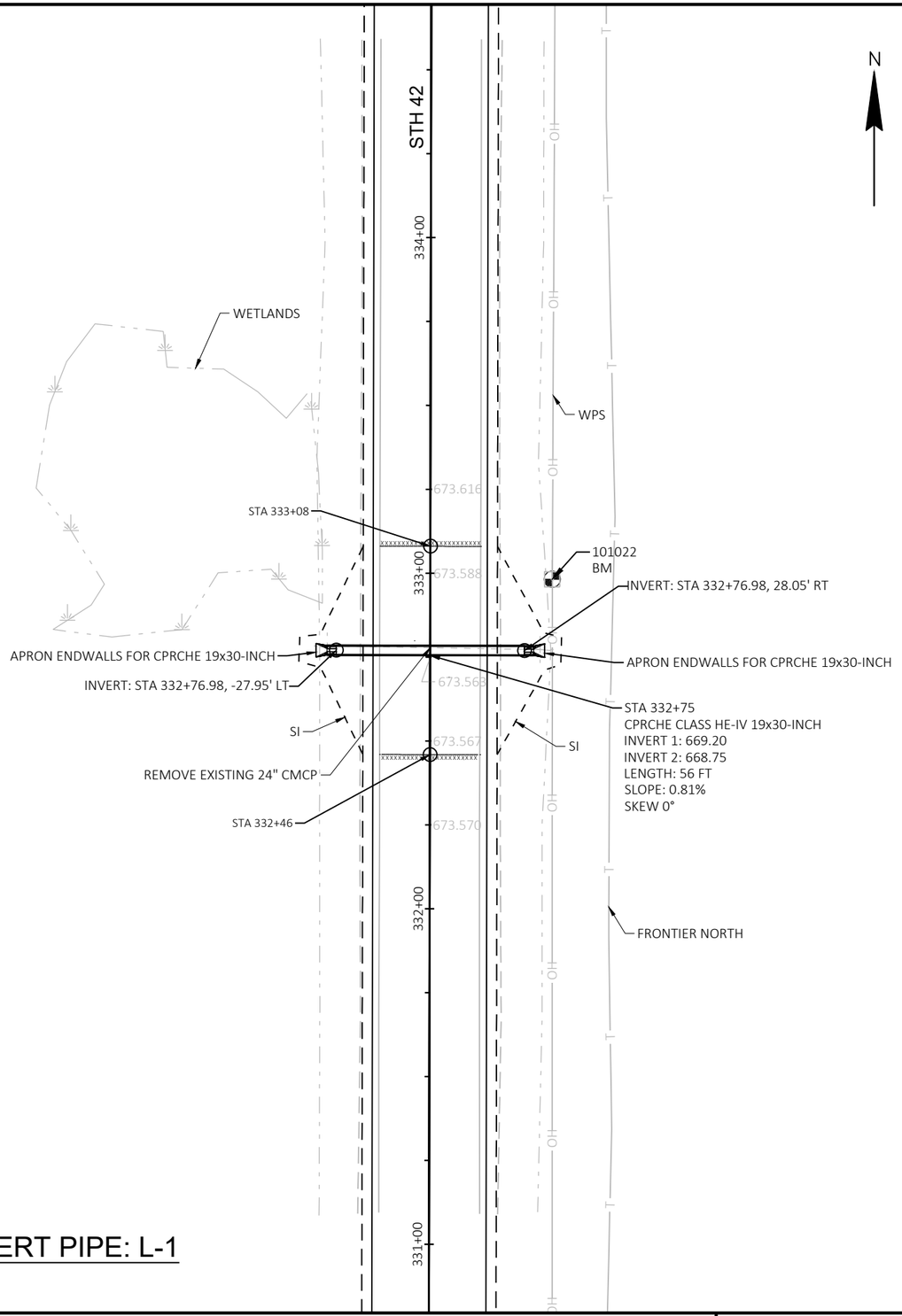


CULVERT PIPE: J-1

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN DETAILS	SHEET 26	E



CULVERT PIPES: K-1 & K-2



CULVERT PIPE: L-1

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN DETAILS	SHEET 27	E

2

2

STA 341+04.04
CP NON-METAL CLASS III-A 18-INCH
INVERT 1: 670.76
INVERT 2: 669.71
LENGTH: 84 FT
SLOPE: 1.24%

REMOVE EXISTING 18" CMCP

INVERT: STA 340+62.08, -33.11' LT

APRON ENDWALLS FOR CP 18-INCH

WPS

CP PK NAIL #923
STA 340+35.01, -19.95' LT
Y=359874.919
X=258481.443

APPROXIMATE R/W

SI

WETLANDS

APPROXIMATE R/W

IRISH RD.

FRONTIER NORTH

FRONTIER NORTH

MGS EAT

25'
MGS GUARDRAIL 3 K

112.5'
MGS GUARDRAIL
LONG-SPAN (3L)

50'
MGS GUARDRAIL 3 K

MGS EAT

SI

WETLANDS

PI: 344+31.91

POST #1
+93.23
-21.50' LT

POST #5
+18.21
-20.56' LT

POST #9
+43.20
-19.62' LT

INVERT: STA 341+46.03, -31.71' LT

APRON ENDWALLS FOR CP 18-INCH

REPLACE BEAM GUARD

POST #9
+36.94
-19.62' LT

POST #5
+61.92
-20.56' LT

POST #1
+86.91
-21.50' LT

WPS

89+00

STH 42

340+00

341+00

342+00

343+00

344+00

345+00

FRONTIER NORTH

POST #1
+08.67
21.50' RT

POST #5
+33.65
20.56' RT

POST #9
+58.63
19.62' RT

POST #9
+02.38
19.62' RT

POST #5
+27.36
20.56' RT

POST #1
+52.35
21.50' RT

WETLANDS

905
NGS

WPS

WPS

1005
BM

SI

SI

AT&T WISCONSIN

AT&T WISCONSIN

APPROXIMATE R/W

APRON ENDWALL FOR CP 18-INCH

INVERT: STA 340+73.24, 31.89' RT

112.5'
MGS GUARDRAIL
LONG-SPAN (3L)

MGS EAT

MGS EAT

CP PK NAIL #924
STA 343+52.73, 25.44' RT
Y=360192.555
X=258527.443

12.5'
MGS GUARDRAIL 3 K

12.5'
MGS GUARDRAIL 3 K

STA 340+87.16
CP NON-METAL CLASS III-A 18-INCH
INVERT 1: 671.42
INVERT 2: 671.34
LENGTH: 28 FT
SLOPE: 0.29%

APRON ENDWALL FOR CP 18-INCH

INVERT: STA 341+01.19, 33.50' RT

REMOVE EXISTING 18" CMCP

WETLANDS

APPROXIMATE R/W

IRISH RD.

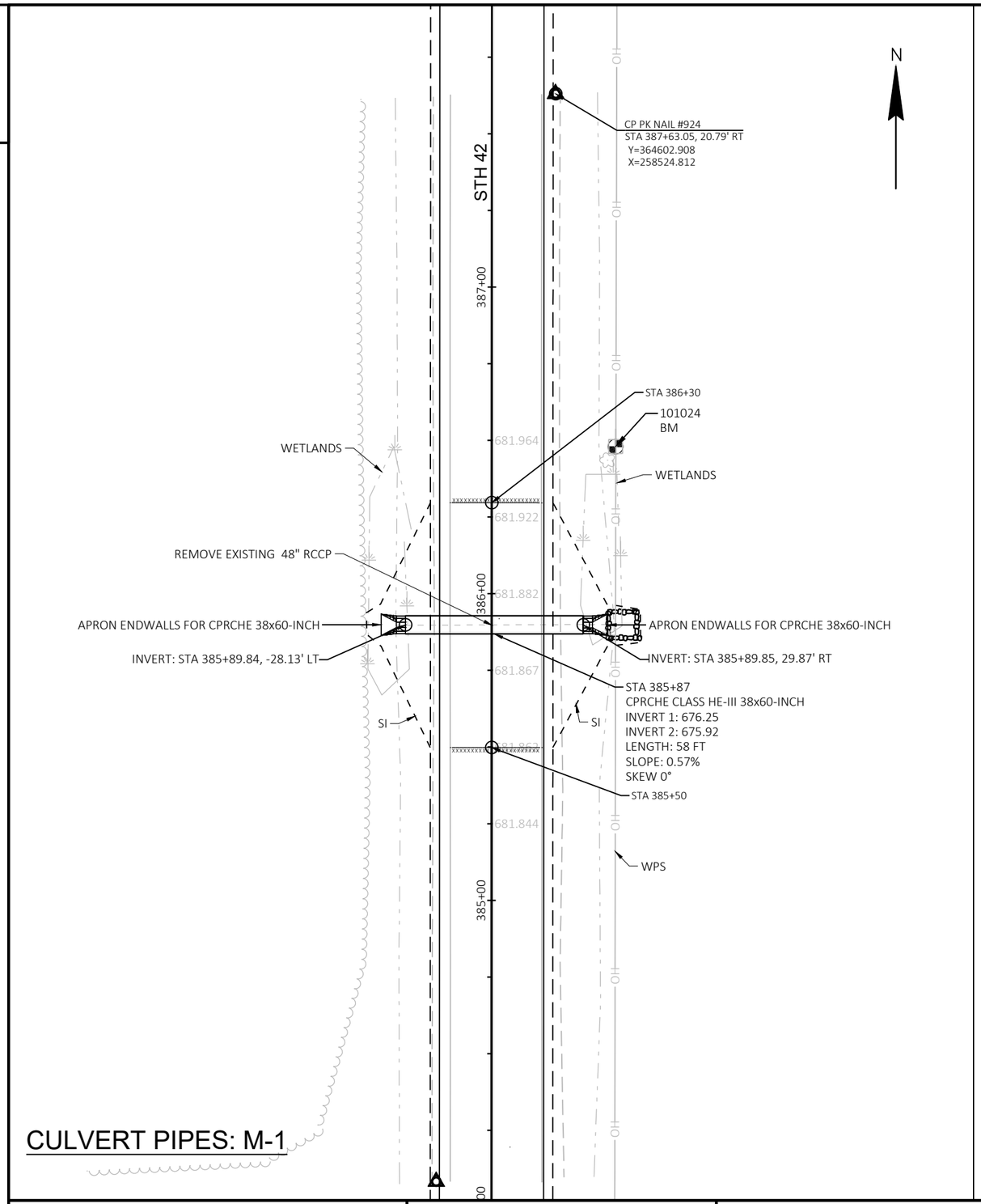
PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN DETAILS - REPLACE GUARDRAIL	SHEET 28	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 08

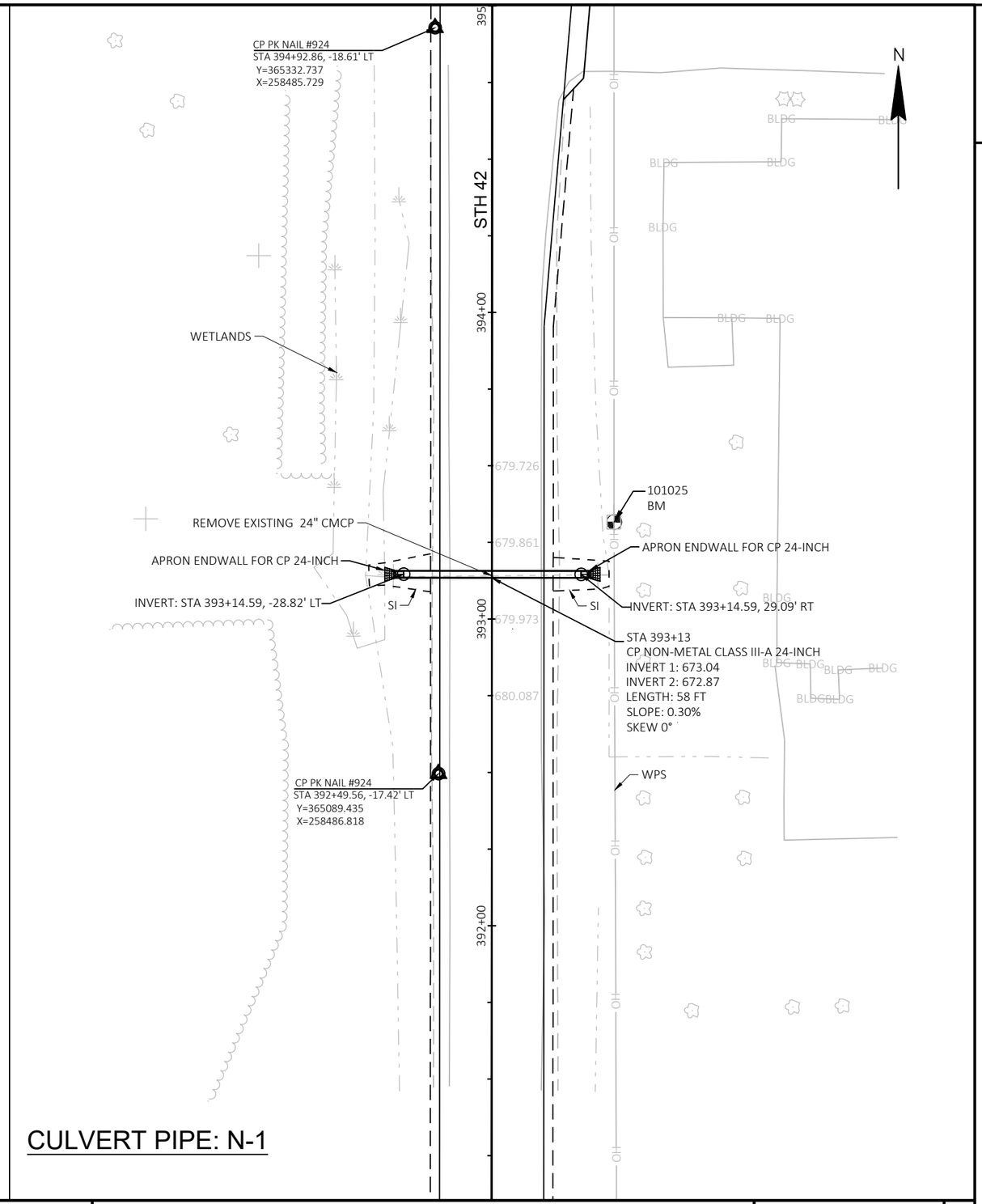
PLOT DATE : 7/8/2022 7:39 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



CULVERT PIPES: M-1



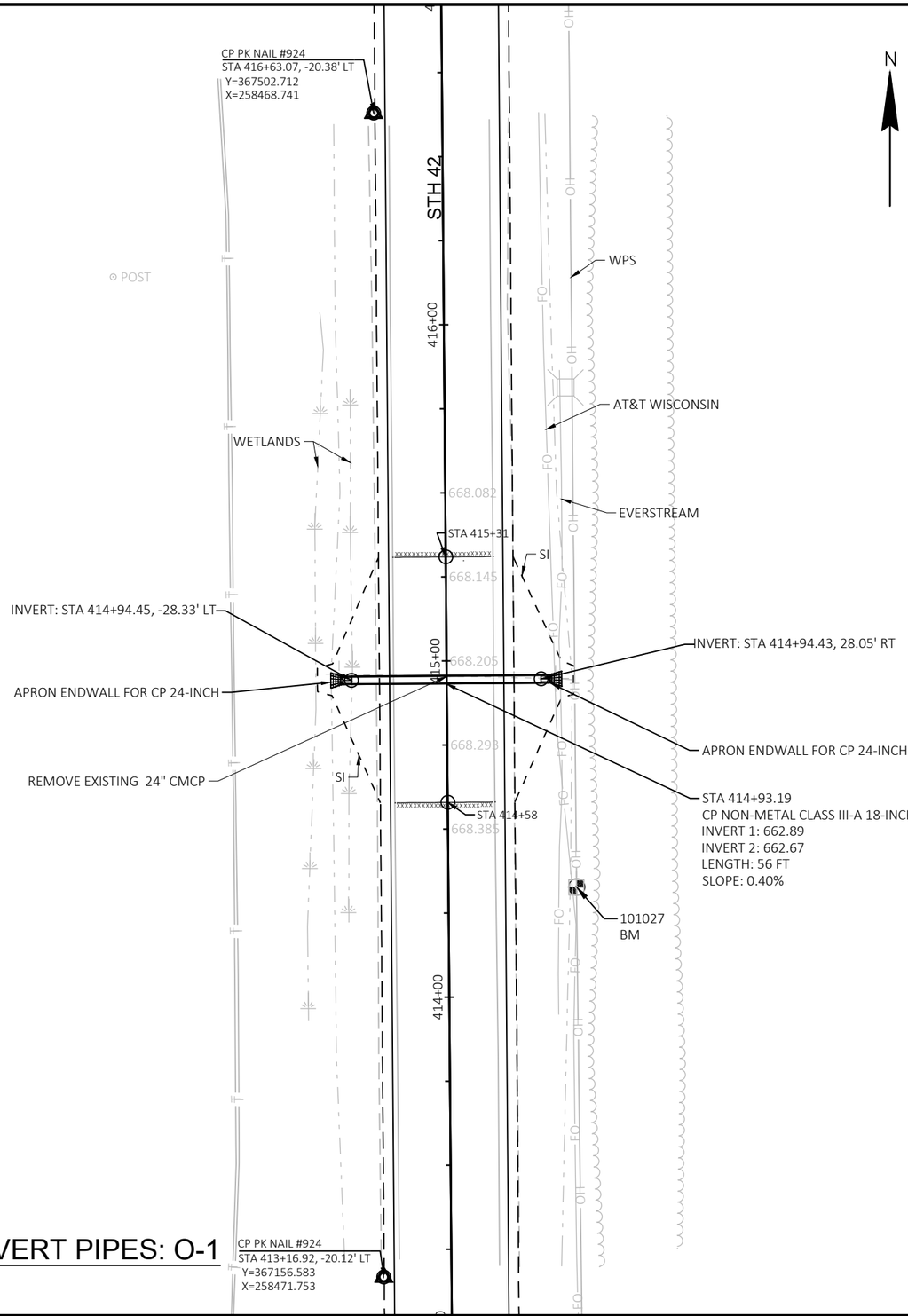
CULVERT PIPE: N-1

2

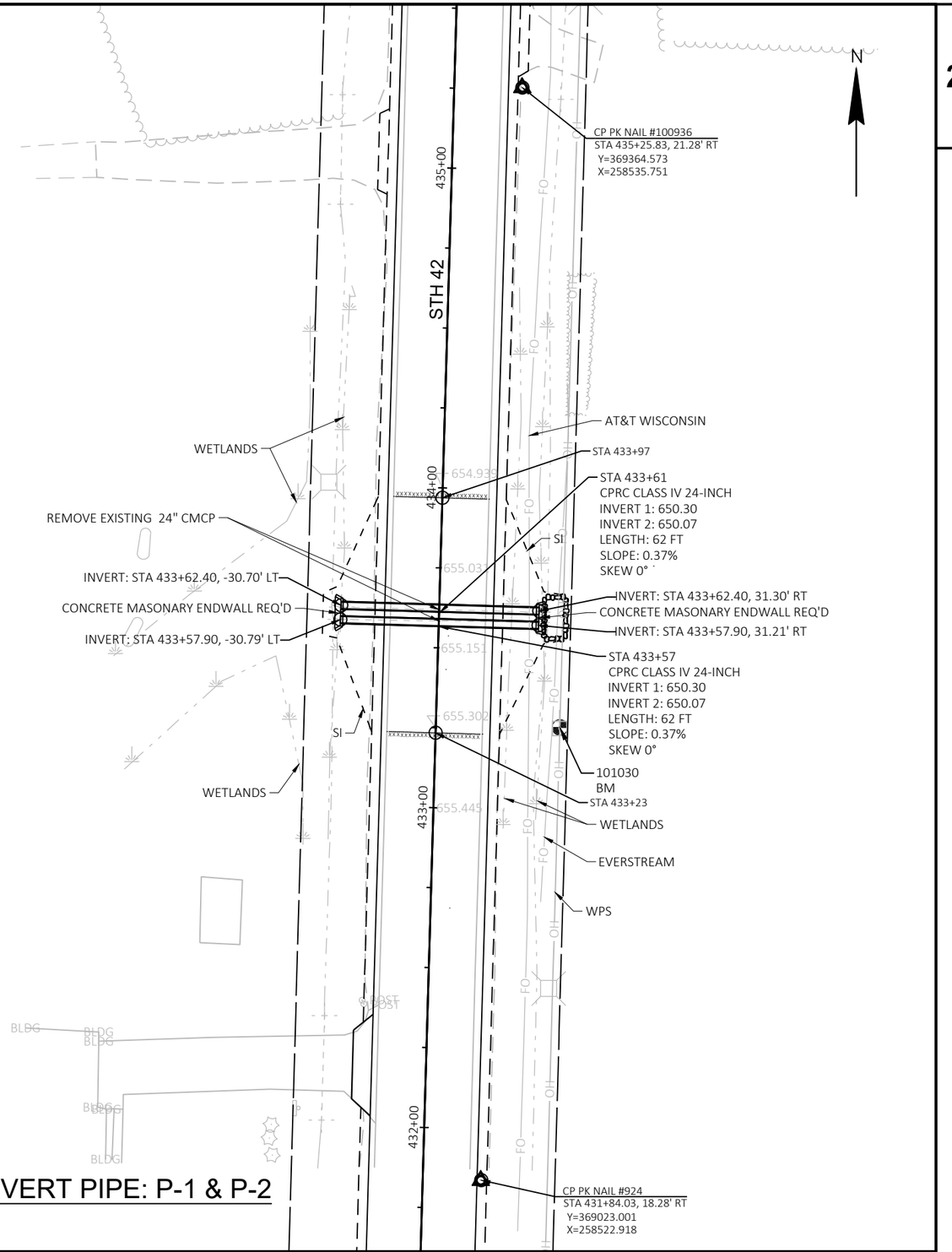
PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN DETAILS	SHEET 29	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 09
PLOT DATE : 7/8/2022 7:39 AM
PLOT BY : SCHERER, MEGAN S
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



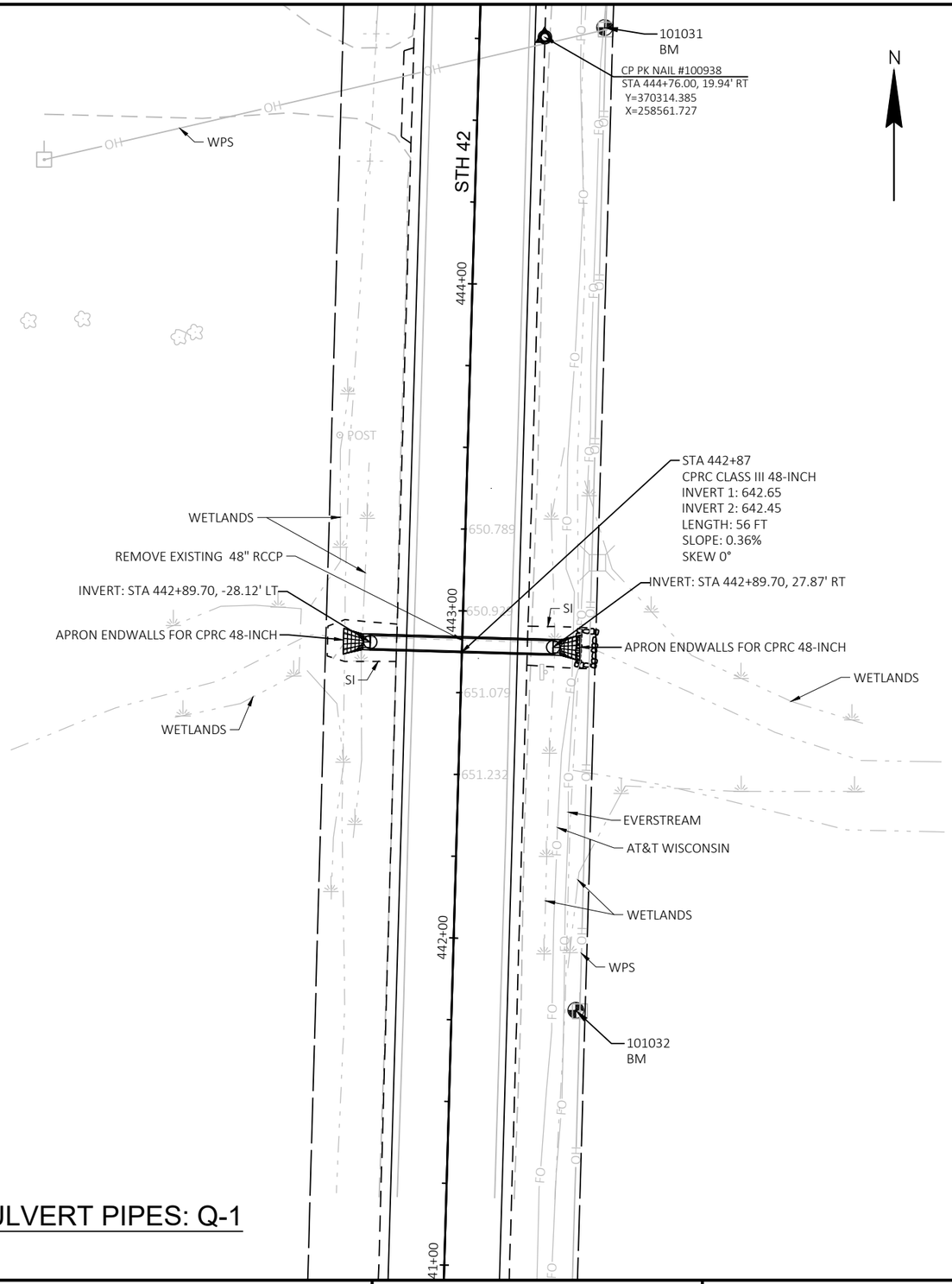
CULVERT PIPES: O-1



CULVERT PIPE: P-1 & P-2

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN DETAILS	SHEET 30	E

2



CULVERT PIPES: Q-1

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN DETAILS	SHEET 31	E

2

N

STH 42

449+00

450+00

451+00

452+00

453+00

454+00

E TAPAWINGO RD.

BM
1003

CP PK NAIL #917
STA 450+52.62, -107.61' LT
Y=370892.193
X=258449.496

RMK #4270
STA 450+53.34, -78.81' LT
Y=370892.686
X=258478.294

RMK #4269
STA 450+18.84, -60.84' LT
Y=370858.415
X=258495.911

PC: 449+31.94

PT: 450+52.83

STA 450+87
-21.00' L

STA 450+87
22.00' R

906
NGS

SEE DETAIL A

SEE DETAIL B

EXISTING R/W

FRONTIER NORTH

INVERT: STA 451+27.54, -42.60' LT

APRON ENDWALLS FOR CPRCHE 68x106-INCH

RECONSTRUCT
ASPHALTIC FLUME

WETLANDS

PROPOSED R/W

WPS

SI

REMOVE EXISTING
BOX CULVERT

STA 451+75

REMOVE BEAM GUARD

STA 451+26
CPRCHE CLASS HE-III 68x106-INCH
INVERT 1: 638.00
INVERT 2: 637.25
LENGTH: 86 FT
SLOPE: 0.87%
SKEW 5° RHF

INVERT: STA 451+34.72, 43.09' RT

APRON ENDWALLS FOR CPRCHE 68x106-INCH

RMK #4271
STA 450+96.76, 27.14' RT
Y=370935.305
X=258584.570

CP PK NAIL #918
STA 450+84.22, 126.34' RT
Y=370922.017
X=258683.672

AT&T WISCONSIN

EVERSTREAM

RECONSTRUCT
ASPHALTIC FLUME

647.592

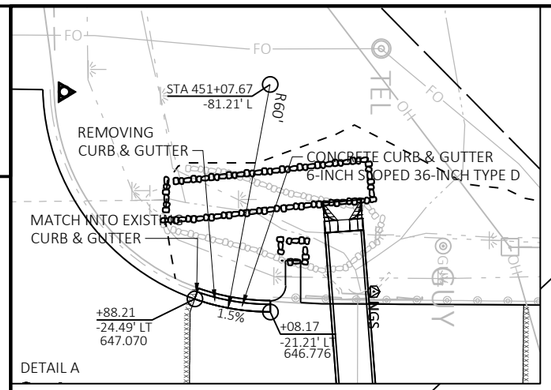
647.413

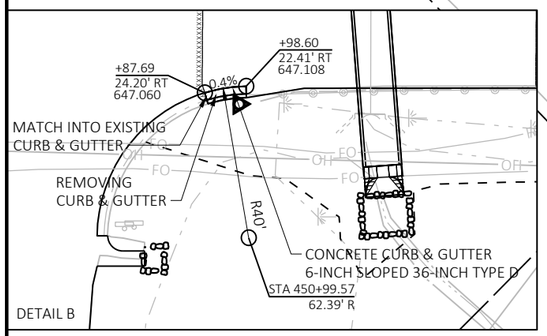
647.233

647.159

647.079

646.940





CULVERT PIPES: R-1

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN DETAILS	SHEET 32	E

2

N

CP PK NAIL #100940
STA 473+98.41, 20.28' RT
Y=373236.946
X=258595.084

474+00

STH 42

473+00

101034
BM

WPS

WETLANDS

639.923

640.108

INVERT: STA 472+36.12, 33.78' RT

REMOVE EXISTING 6'X5' BOX CULVERT

APRON ENDWALLS FOR CPRCHE 63x98-INCH

INVERT: STA 472+19.98, -30.21' LT

APRON ENDWALLS FOR CPRCHE 63x98-INCH

640.512

472+00

STA 472+23
CPRCHE CLASS HE-III 63x98-INCH
INVERT 1: 629.39
INVERT 2: 628.33
LENGTH: 66 FT
SLOPE: 1.61%
SKEW 15° RHF

WETLANDS

640.732

AT&T WISCONSIN

EVERSTREAM

471+00

CULVERT PIPES: S-1

101036
BM

CP PK NAIL #100942
STA 493+08.25, 19.39' RT
Y=375146.737
X=258608.612

N

2

493+00

AT&T WISCONSIN

WPS

STH 42

WETLANDS

492+00

638.284

STA 491+76

STA 491+35
CPRC CLASS IV 48-INCH
INVERT 1: 630.48
INVERT 2: 630.20
LENGTH: 68 FT
SLOPE: 0.41%
SKEW 0°

101035
BM

638.308

INVERT: STA 491+37.59, -33.26' LT

638.296

CONCRETE MASONARY ENDWALL REQ'D

INVERT: STA 491+37.59, 34.74' RT

CONCRETE MASONARY ENDWALL REQ'D

INVERT: STA 491+30.76, -33.26' LT

638.338

INVERT: STA 491+30.76, 34.74' RT

REMOVE EXISTING 48" RCCP

STA 491+28
CPRC CLASS IV 48-INCH
INVERT 1: 630.48
INVERT 2: 630.20
LENGTH: 68 FT
SLOPE: 0.41%
SKEW 0°

WETLANDS

491+00

638.506

STA 490+92

638.666

EVERSTREAM

CP PK NAIL #100941
STA 490+39.57, -66.04' LT
Y=374878.705
X=258521.154

JOHANEK RD.

490+00

WPS

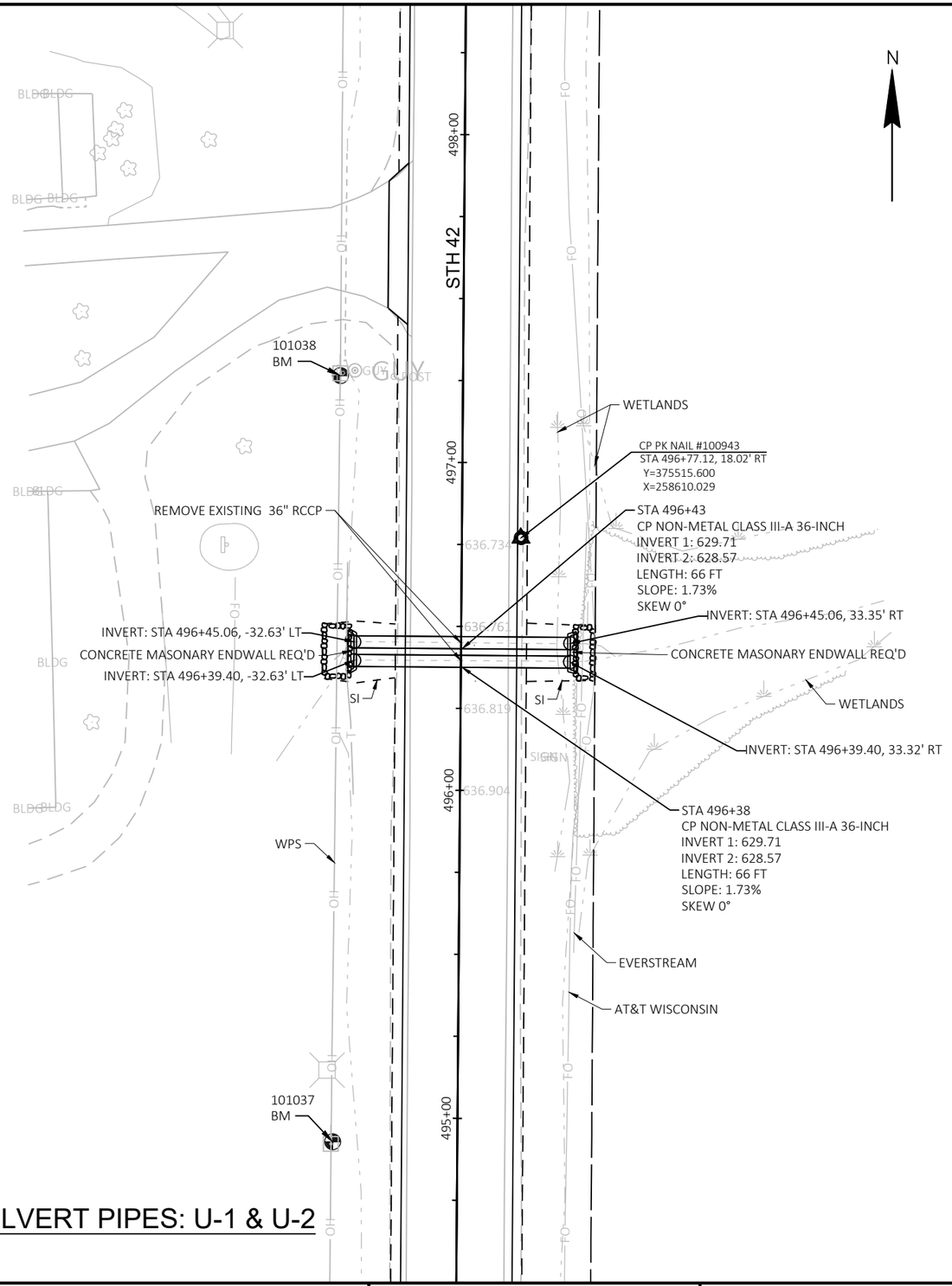
CULVERT PIPE: T-1, & T-2

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN DETAILS	SHEET 33	E

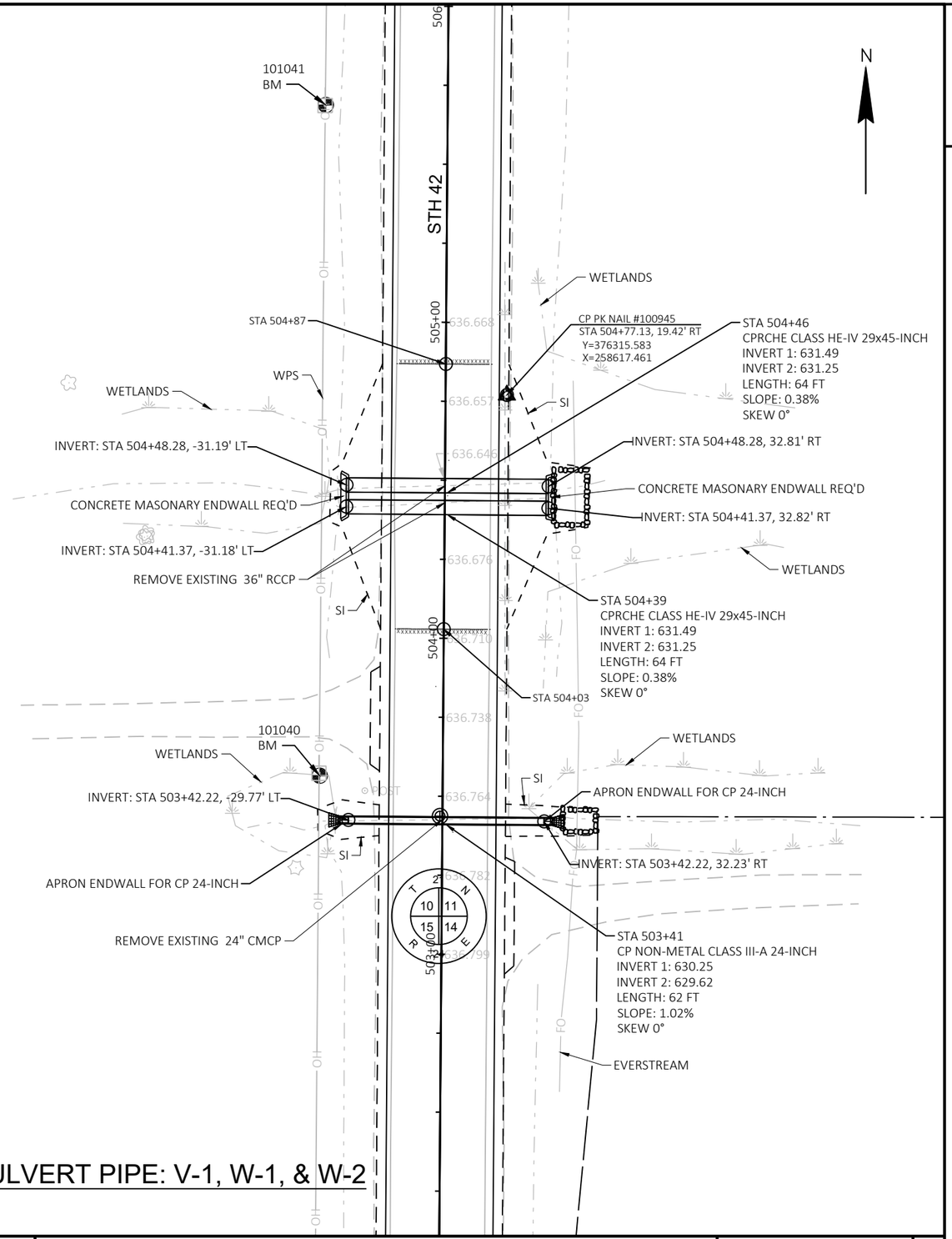
FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 13

PLOT DATE : 7/8/2022 7:40 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



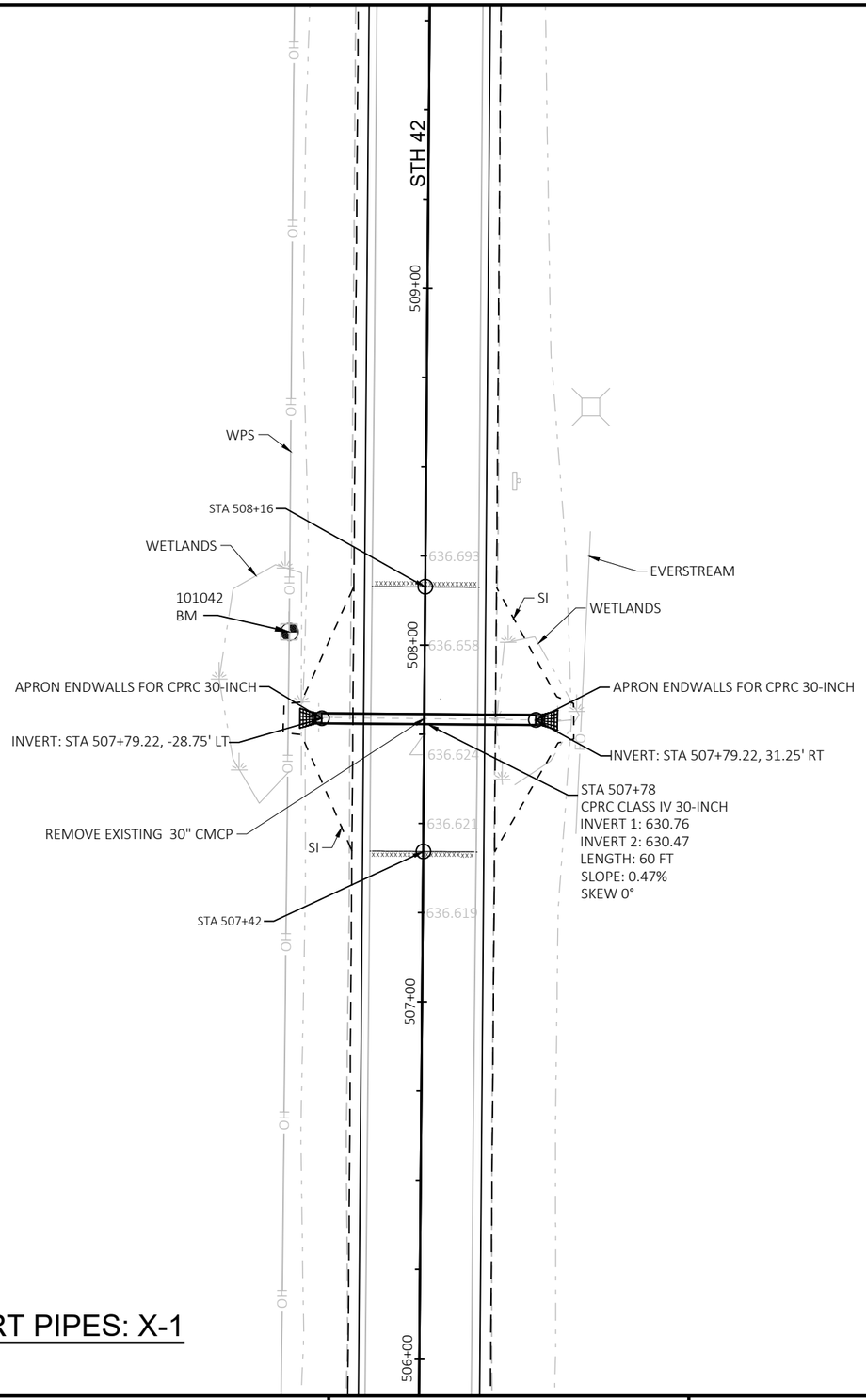
CULVERT PIPES: U-1 & U-2



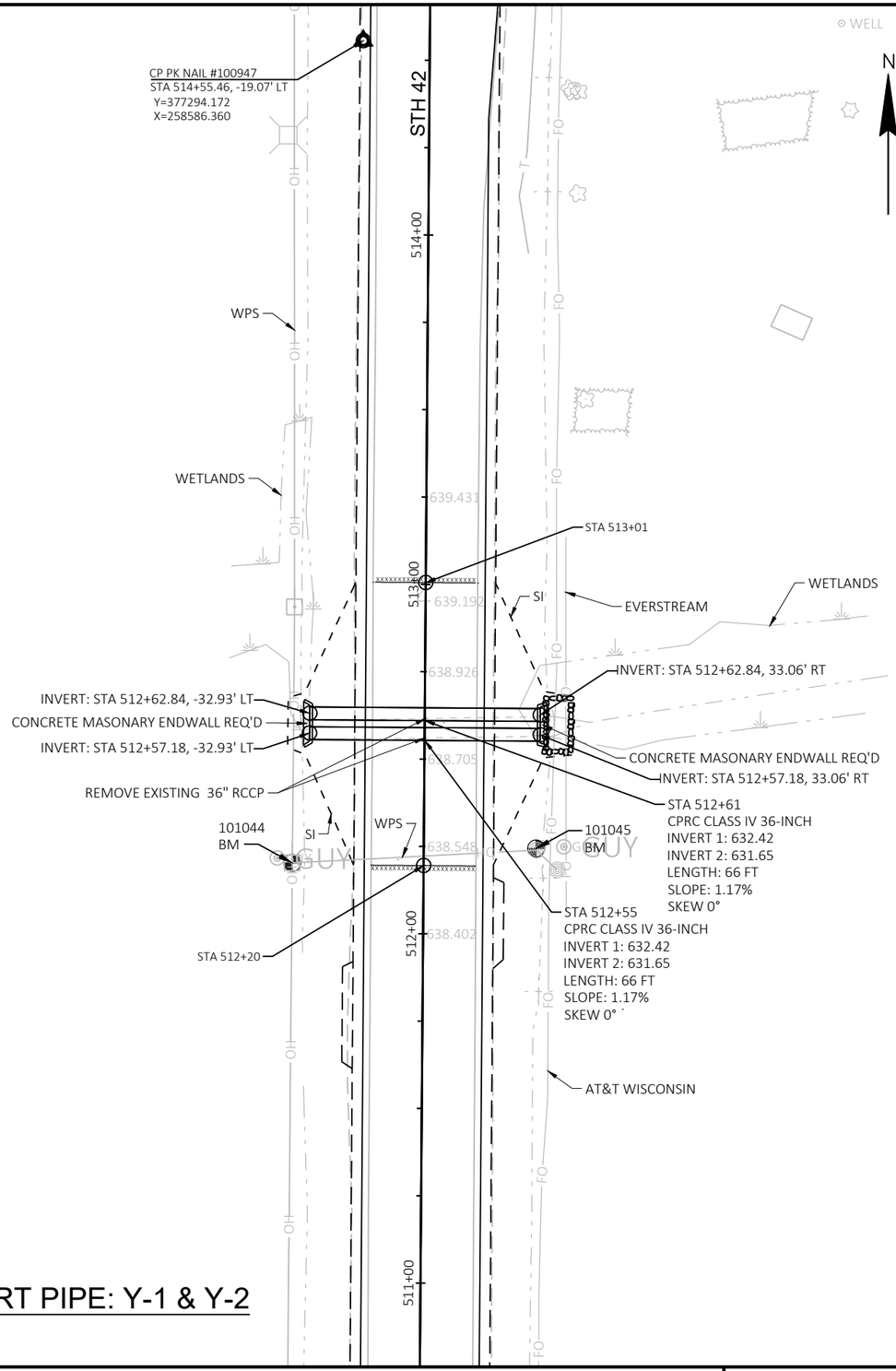
CULVERT PIPE: V-1, W-1, & W-2

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN DETAILS	SHEET 34	E

2



CULVERT PIPES: X-1



CULVERT PIPE: Y-1 & Y-2

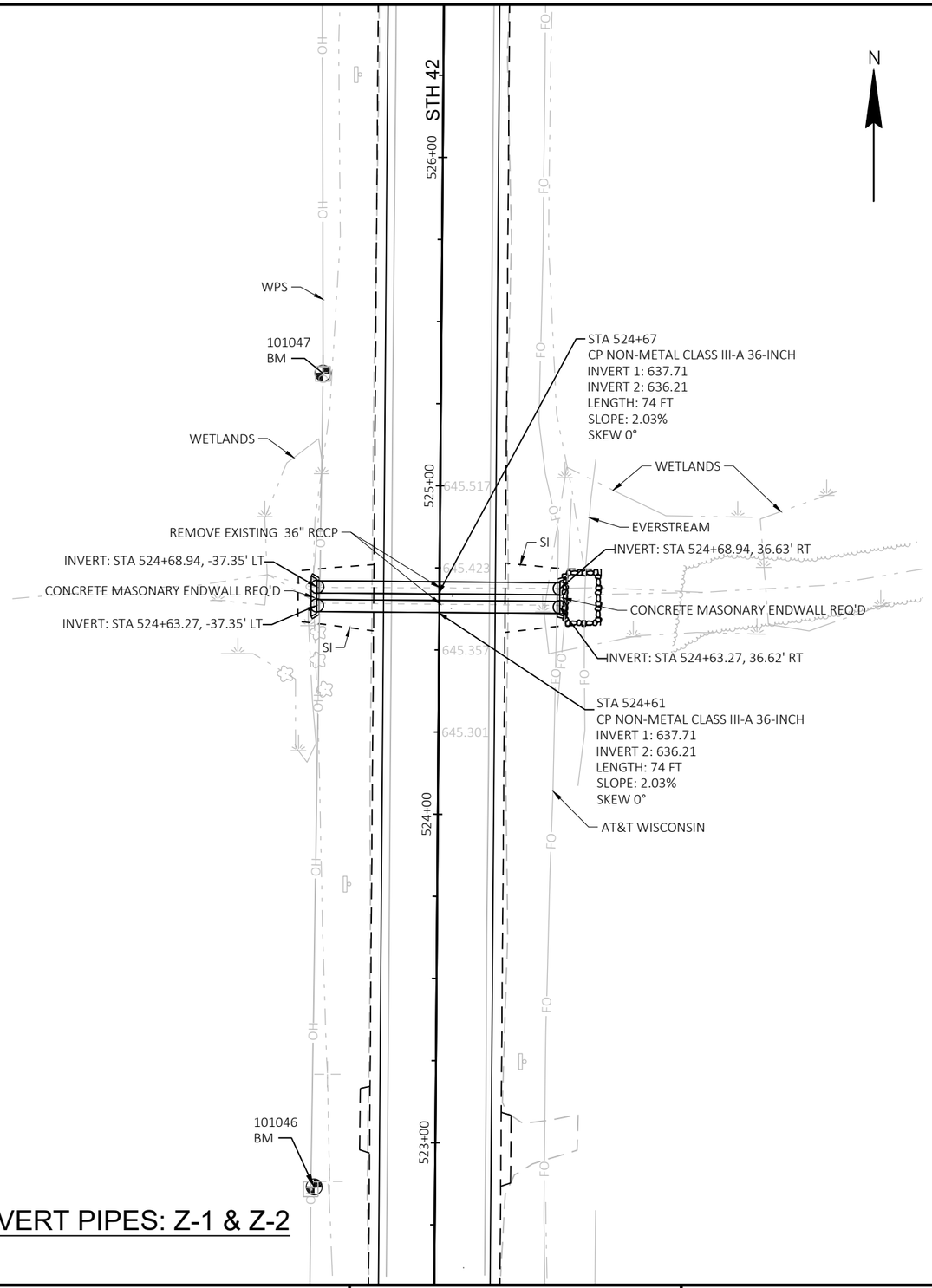
2

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN DETAILS	SHEET 35	E

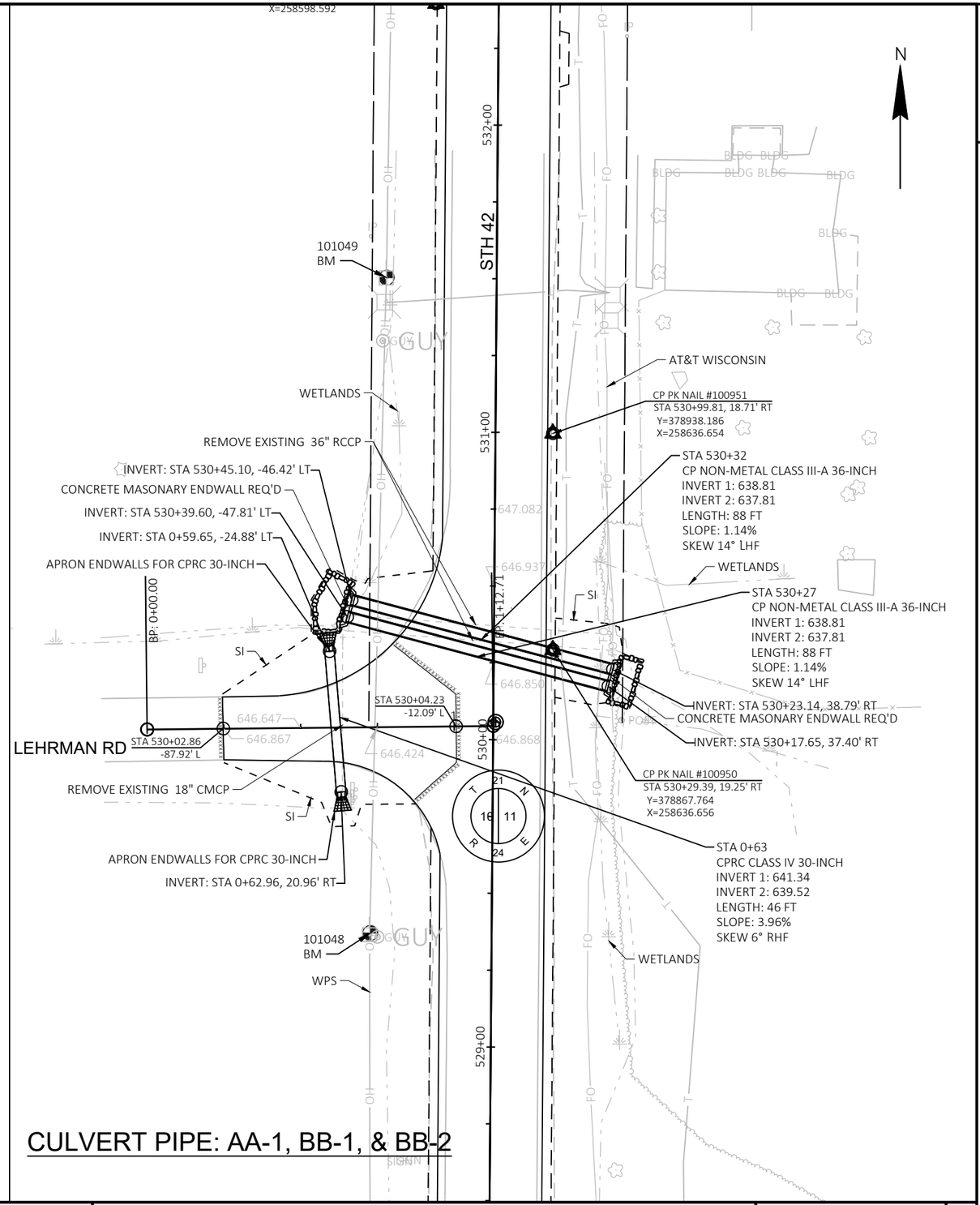
FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 15

PLOT DATE : 7/8/2022 7:40 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



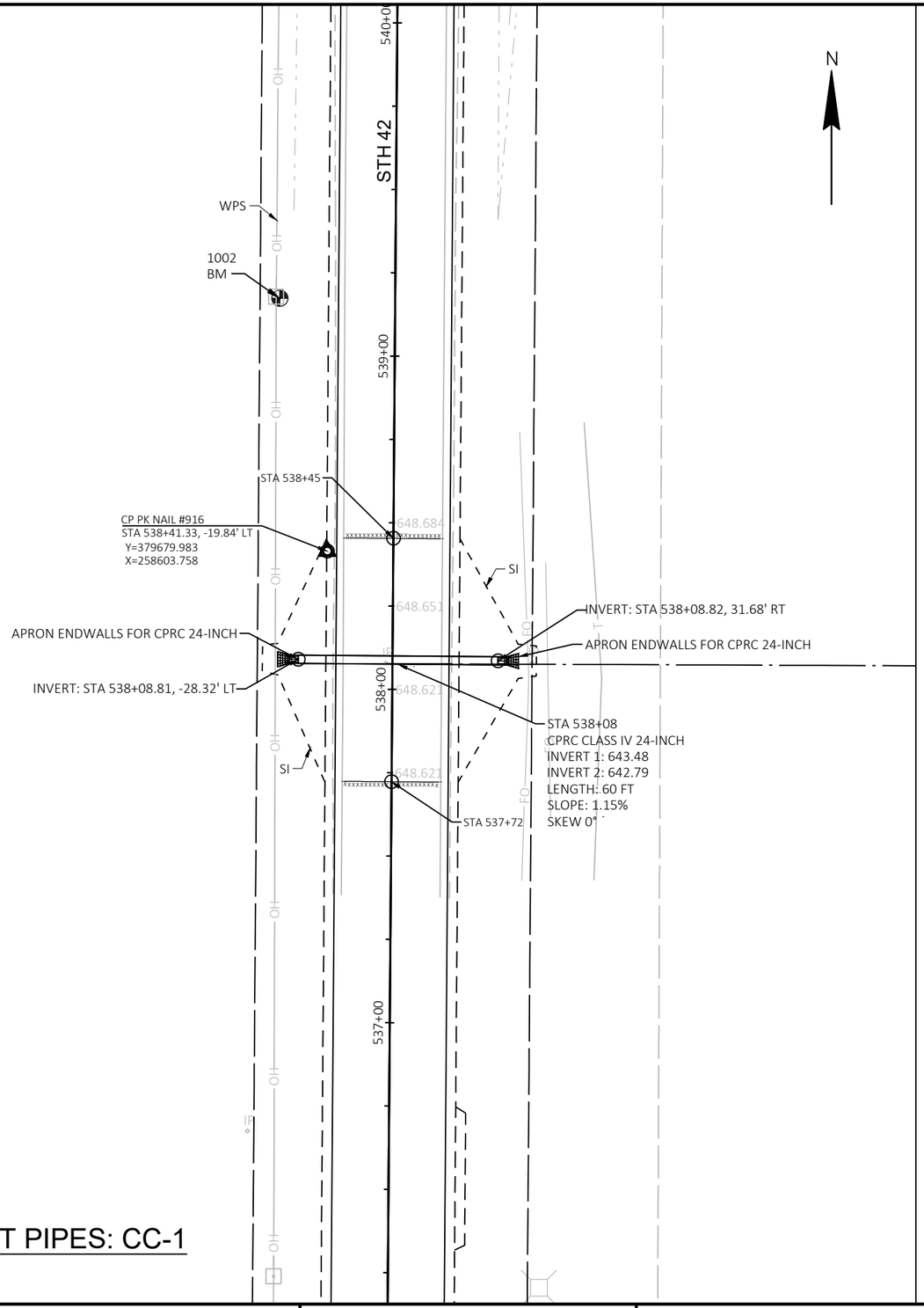
CULVERT PIPES: Z-1 & Z-2



CULVERT PIPE: AA-1, BB-1, & BB-2

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN DETAILS	SHEET 36	E

2



CULVERT PIPES: CC-1

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN DETAILS	SHEET 37	E

2

N

EXISTING R/W

SI

INVERT: STA 543+07.40, -54.52' LT

APRON ENDWALLS FOR CPRCHE 68x106-INCH

WETLANDS

PROPOSED R/W

PROPOSED R/W

EXISTING R/W

WPS

PC: 541+17.76

WPS

STH 42

541+00

542+00

543+00

544+00

545+00

546+00

FRONTIER NORTH

FRONTIER NORTH

REMOVE EXISTING
BOX CULVERT

649.338

649.401

649.440

649.379

649.448

649.559

EXISTING R/W

CP PK NAIL #915
STA 542+85.78, 30.48' RT
Y=380122.237
X=258660.449

PROPOSED R/W

INVERT: STA 543+31.87, 56.83' RT

AT&T WISCONSIN

SI

FRONTIER NORTH

STA 543+14
CPRCHE CLASS HE-III 68x106-INCH
INVERT 1: 634.25
INVERT 2: 632.25
LENGTH: 114 FT
SLOPE: 1.75%
SKEW 13° RHF

APRON ENDWALLS FOR CPRCHE 68x106-INCH

CULVERT PIPES: DD-1

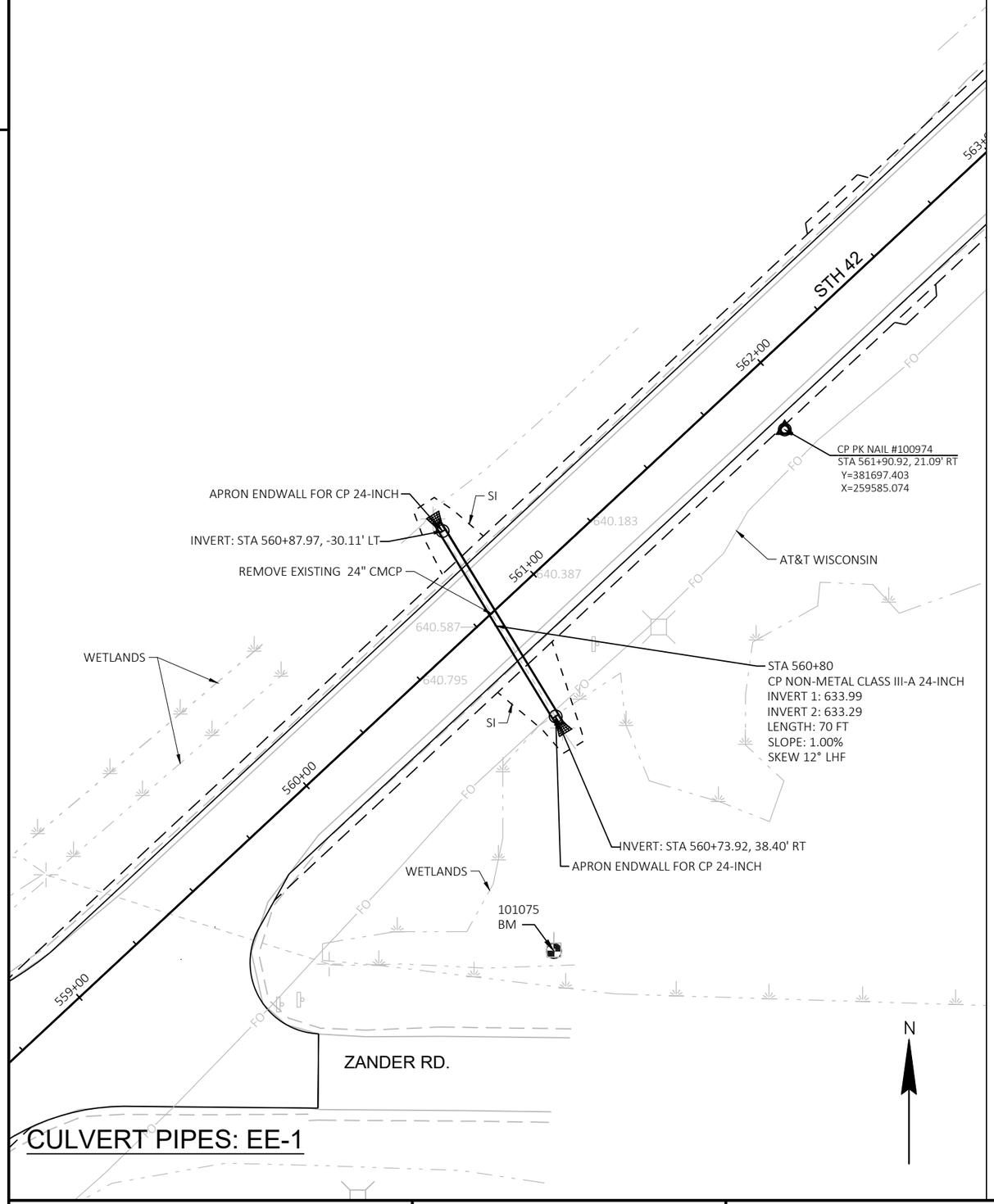
PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN DETAILS	SHEET 38	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 18

PLOT DATE : 7/8/2022 7:40 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

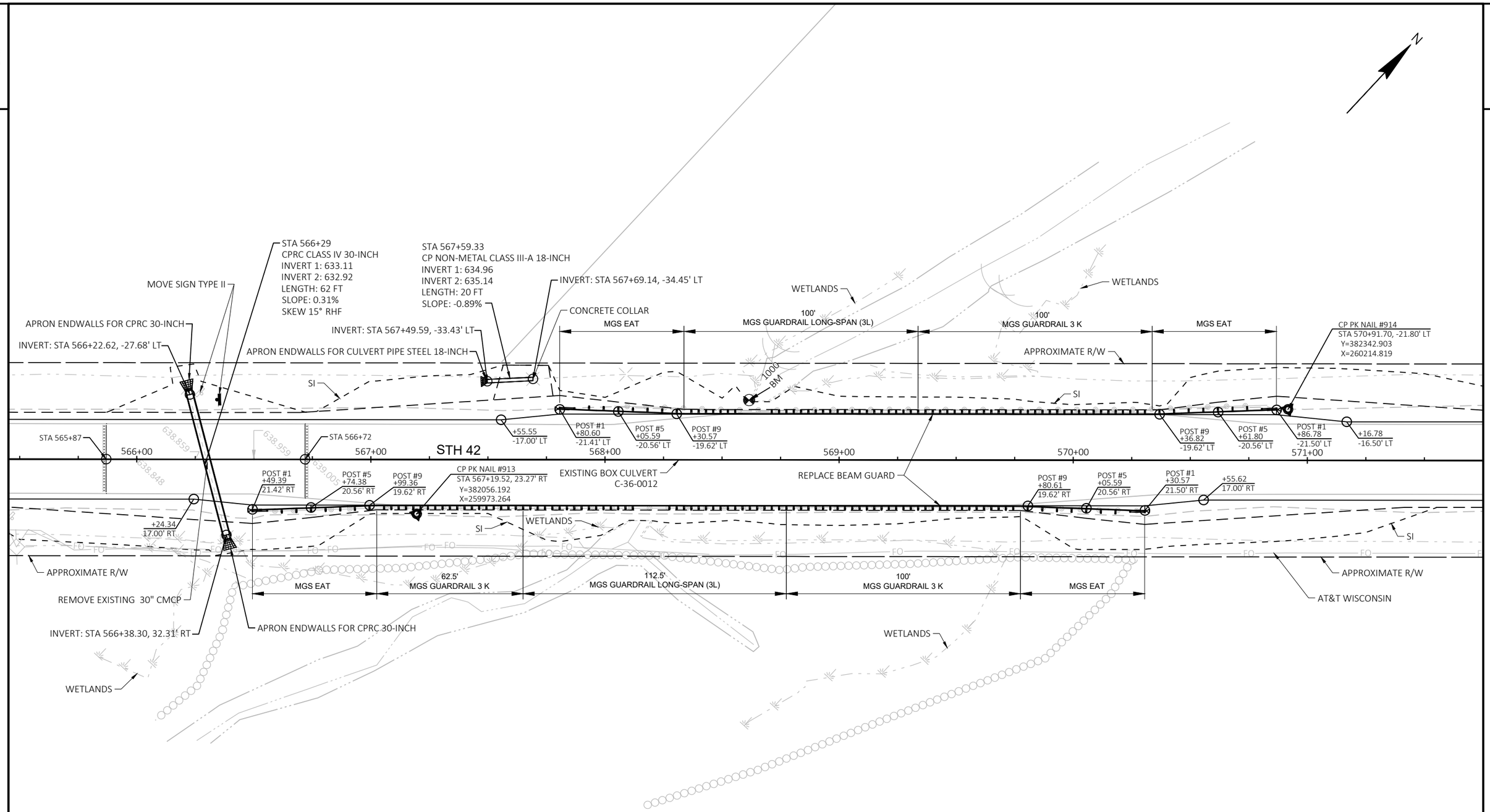
2



CULVERT PIPES: EE-1

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN DETAILS	SHEET 39	E

2

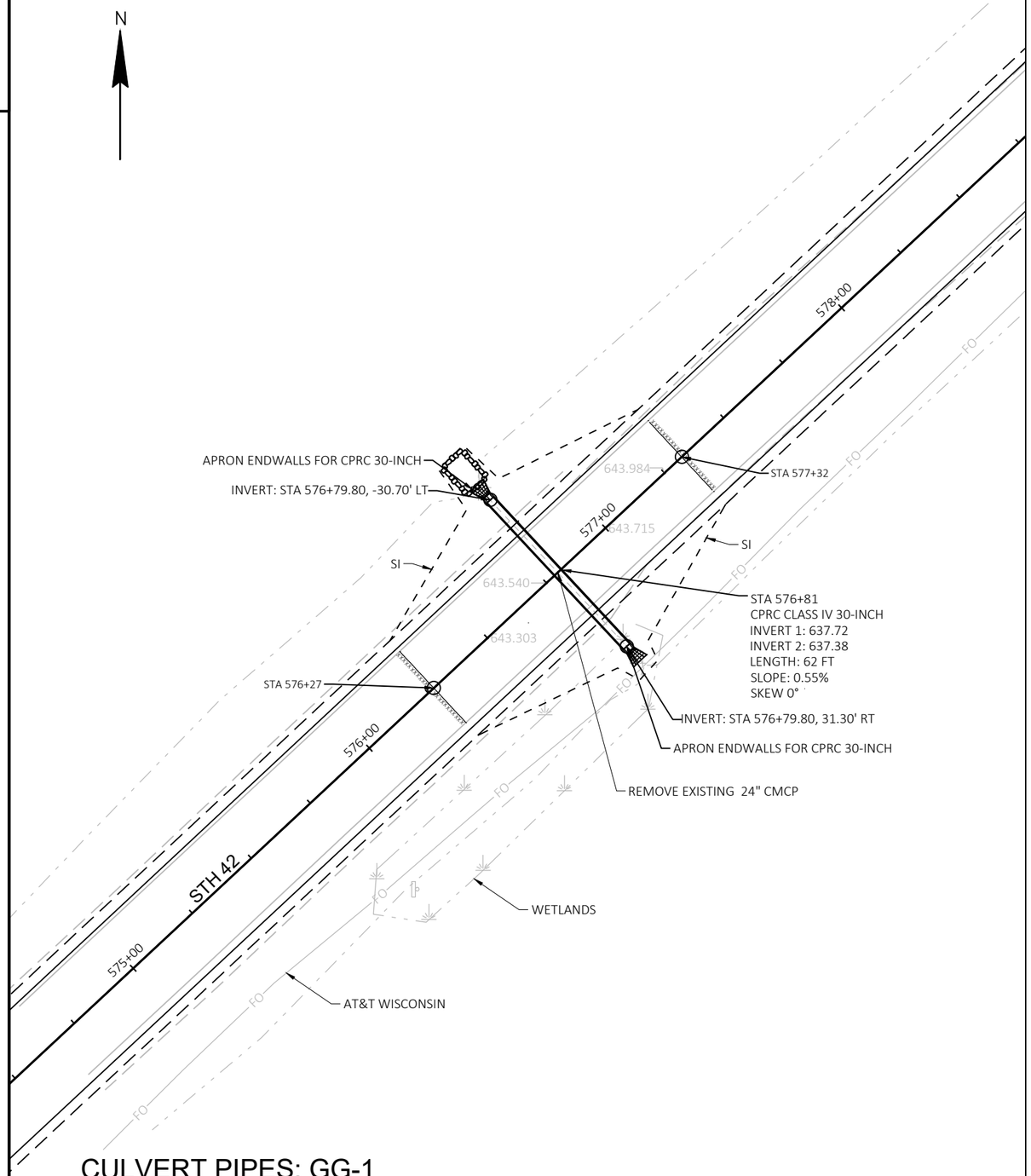


CULVERT PIPE: FF-1

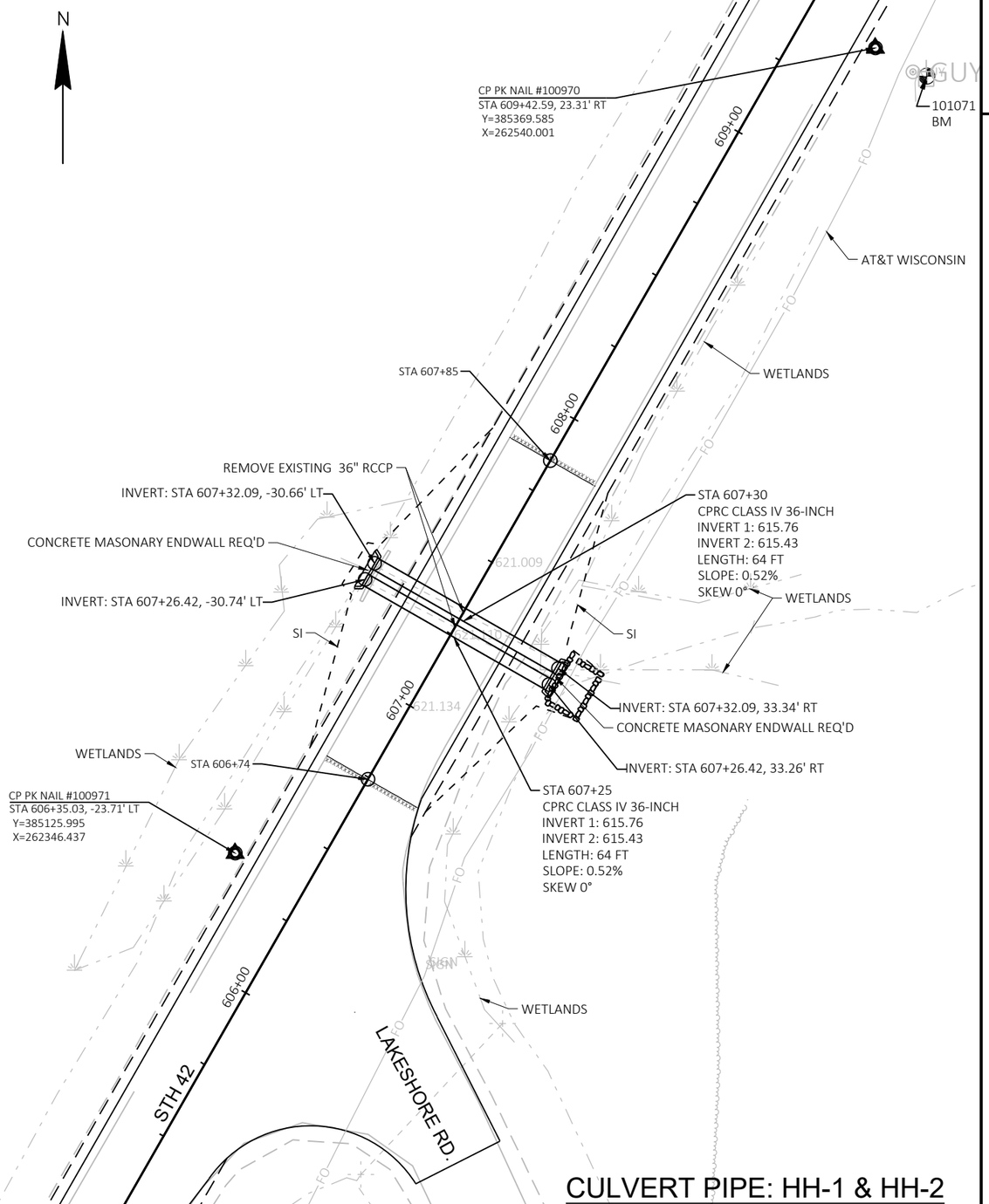
PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN DETAILS - REPLACE GUARDRAIL	SHEET 40	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 20

PLOT DATE : 7/8/2022 7:41 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : PLOT SCALE : 1 IN:40 FT



CULVERT PIPES: GG-1



CULVERT PIPE: HH-1 & HH-2

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN DETAILS	SHEET 41	E

2

N

LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I TYPE A
- SILT FENCE
- CULVERT PIPE DITCH CHECK
- INLET PROTECTION
- EROSION BALE, BARRIER
- RIPRAP MEDIUM (UNLESS RIP RAP HEAVY IS CALLED OUT IN PLANS)
- SURFACE WATER FLOW
- SLOPE INTERCEPT

NOTE:
ALL DISTURBED AREAS SHALL RECEIVE TOPSOIL, SEED, AND FERTILIZER

WETLANDS
STH 42
27+00
26+00
SI
WPS
MH
GUY
SAN
SS
EGGERS DR.
STA 66+43
STA 65+62
65+00
(SCHOOL ENTRANCE)

N
CITY OF TWO RIVERS-WATER
44TH ST.
FRONTIER NORTH
STA 53+31
CITY OF TWO RIVERS-SANITARY
53+00
STA 52+46
PI: 52+29.39
52+00
VICEORY RD.
CTH VV
PI: 79+34.46
STA 79+18
79+00
STA 78+25
78+00

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	EROSION CONTROL PLAN	SHEET 42	E

2

N

99+00

STH 42

STA 98+75

SI

SI

98+00

STA 97+96

WETLANDS

LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I TYPE A
- SILT FENCE
- CULVERT PIPE DITCH CHECK
- INLET PROTECTION
- EROSION BALE, BARRIER
- RIPRAP MEDIUM (UNLESS RIP RAP HEAVY IS CALLED OUT IN PLANS)
- SURFACE WATER FLOW
- SLOPE INTERCEPT

NOTE:
ALL DISTURBED AREAS SHALL RECEIVE TOPSOIL, SEED, AND FERTILIZER

134+00

STH 42

133+00

E HILLCREST RD.

PI: 132+27.30

E HILLCREST RD.

132+00

ASPHALT FLUME

131+00

2

OH

112+00

STA 111+82

WETLANDS

WETLANDS

OH

OH

SI

SI

WPS

111+00

STA 110+92

STH 42

OH

N

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	EROSION CONTROL PLAN	SHEET 43	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 02

PLOT DATE : 7/26/2022 8:03 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : PLOT SCALE : ##########

2

N

WPS

SI

WETLANDS

EXISTING R/W

PAETEC

PROPOSED R/W

EXISTING R/W

177+00

STH 42

178+00

179+00

180+00

181+00

182+00

AT&T WISCONSIN

WPS

AT&T WISCONSIN

FRONTIER NORTH

EXISTING R/W

SI

FRONTIER NORTH

WPS

EXISTING R/W

PROPOSED R/W

WETLANDS

LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I TYPE A
- SILT FENCE
- CULVERT PIPE DITCH CHECK
- INLET PROTECTION
- EROSION BALE, BARRIER
- RIPRAP MEDIUM (UNLESS RIP RAP HEAVY IS CALLED OUT IN PLANS)
- SURFACE WATER FLOW
- SLOPE INTERCEPT

NOTE:
ALL DISTURBED AREAS SHALL RECEIVE TOPSOIL, SEED, AND FERTILIZER

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	EROSION CONTROL PLAN	SHEET 44	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 03

PLOT DATE : 7/26/2022 8:03 AM

PLOT BY : SCHERER, MEGAN S

PLOT NAME :

PLOT SCALE : 1 IN:40 FT

2

N

ASPHALT FLUME

PI: 185+16.30

RAWLEY RD.

STH 42

186+00

185+00

STA 221+39

SI

220+00

STA 220+64

ELMWOOD DR.

PI: 237+81.10

STH 42

238+00

WPS

FRONTIER NORTH

ELMWOOD DR.

WPS

STA 237+17

SI

SI

STA 236+12

236+00

WETLANDS

WETLANDS

235+00

LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I TYPE A
- SILT FENCE
- CULVERT PIPE DITCH CHECK
- INLET PROTECTION
- EROSION BALE, BARRIER
- RIPRAP MEDIUM (UNLESS RIP RAP HEAVY IS CALLED OUT IN PLANS)
- SURFACE WATER FLOW
- SLOPE INTERCEPT

NOTE:
ALL DISTURBED AREAS SHALL RECEIVE TOPSOIL, SEED, AND FERTILIZER

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	EROSION CONTROL PLAN	SHEET 45	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 04

PLOT DATE : 7/26/2022 8:04 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

STH 42

STA 253+41

SI

WETLANDS

WETLANDS

SI

STA 252+52

WETLANDS

WPS

LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I TYPE A
- SILT FENCE
- CULVERT PIPE DITCH CHECK
- INLET PROTECTION
- EROSION BALE, BARRIER
- RIPRAP MEDIUM (UNLESS RIP RAP HEAVY IS CALLED OUT IN PLANS)
- SURFACE WATER FLOW
- SLOPE INTERCEPT

NOTE:
ALL DISTURBED AREAS SHALL RECEIVE TOPSOIL, SEED, AND FERTILIZER

GUY

CTH V

CTH V

STH 42

291+00

STA 290+75

WETLANDS

WETLANDS

SI

SI

292+00

STA 290+01

WPS

N

WETLANDS

FRONTIER NORTH

STA 314+31

SI

WETLANDS

314+00

SI

STA 313+54

WPS

WETLANDS

313+00

STA 333+08

WETLANDS

SI

333+00

SI

WPS

STA 332+46

332+00

N

2

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	EROSION CONTROL PLAN	SHEET 46	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 05

PLOT DATE : 7/26/2022 8:04 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : PLOT SCALE : 1 IN:40 FT

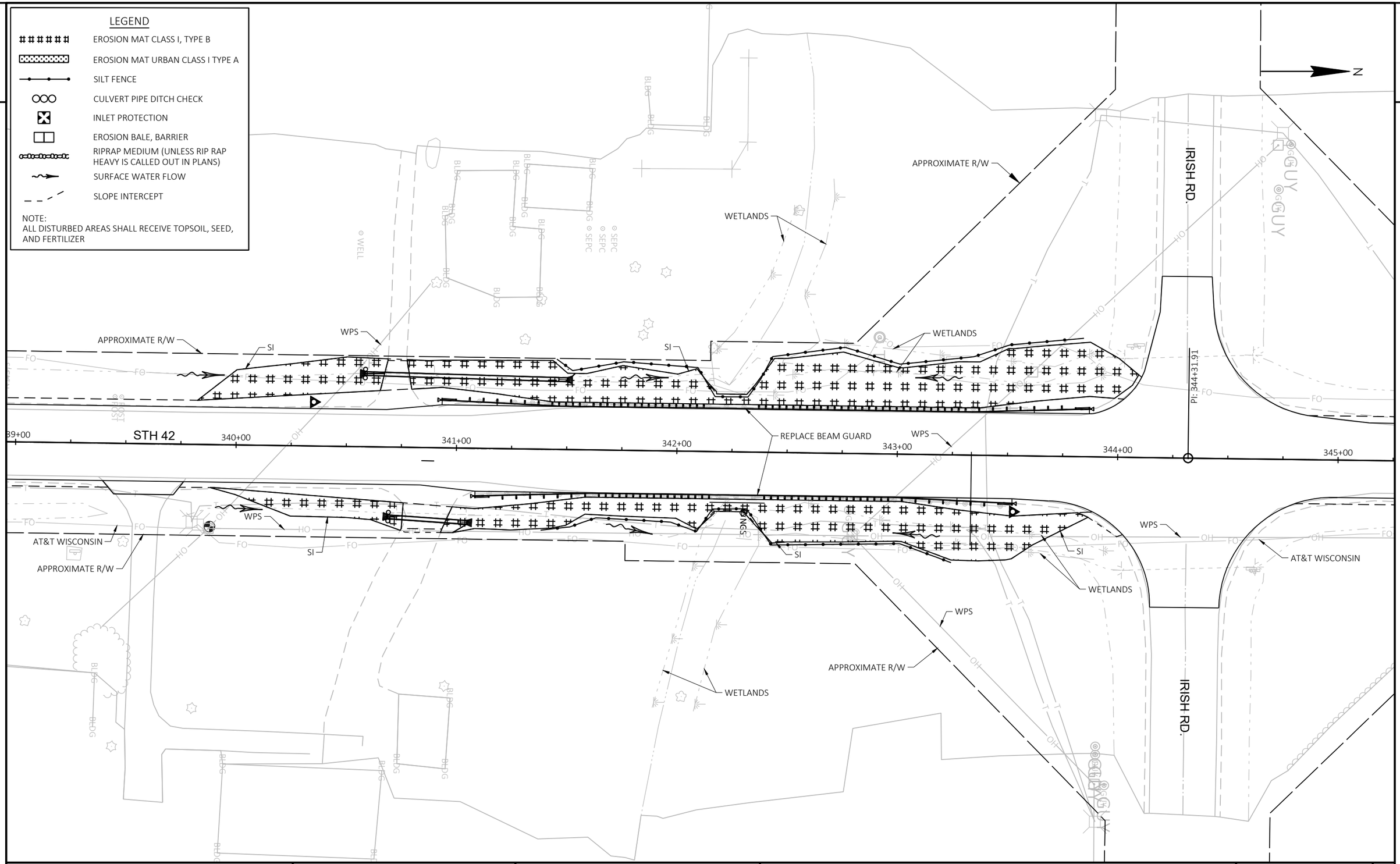
WISDOT/CADDS SHEET 42

2

LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I TYPE A
- SILT FENCE
- CULVERT PIPE DITCH CHECK
- INLET PROTECTION
- EROSION BALE, BARRIER
- RIPRAP MEDIUM (UNLESS RIP RAP HEAVY IS CALLED OUT IN PLANS)
- SURFACE WATER FLOW
- SLOPE INTERCEPT

NOTE:
ALL DISTURBED AREAS SHALL RECEIVE TOPSOIL, SEED, AND FERTILIZER

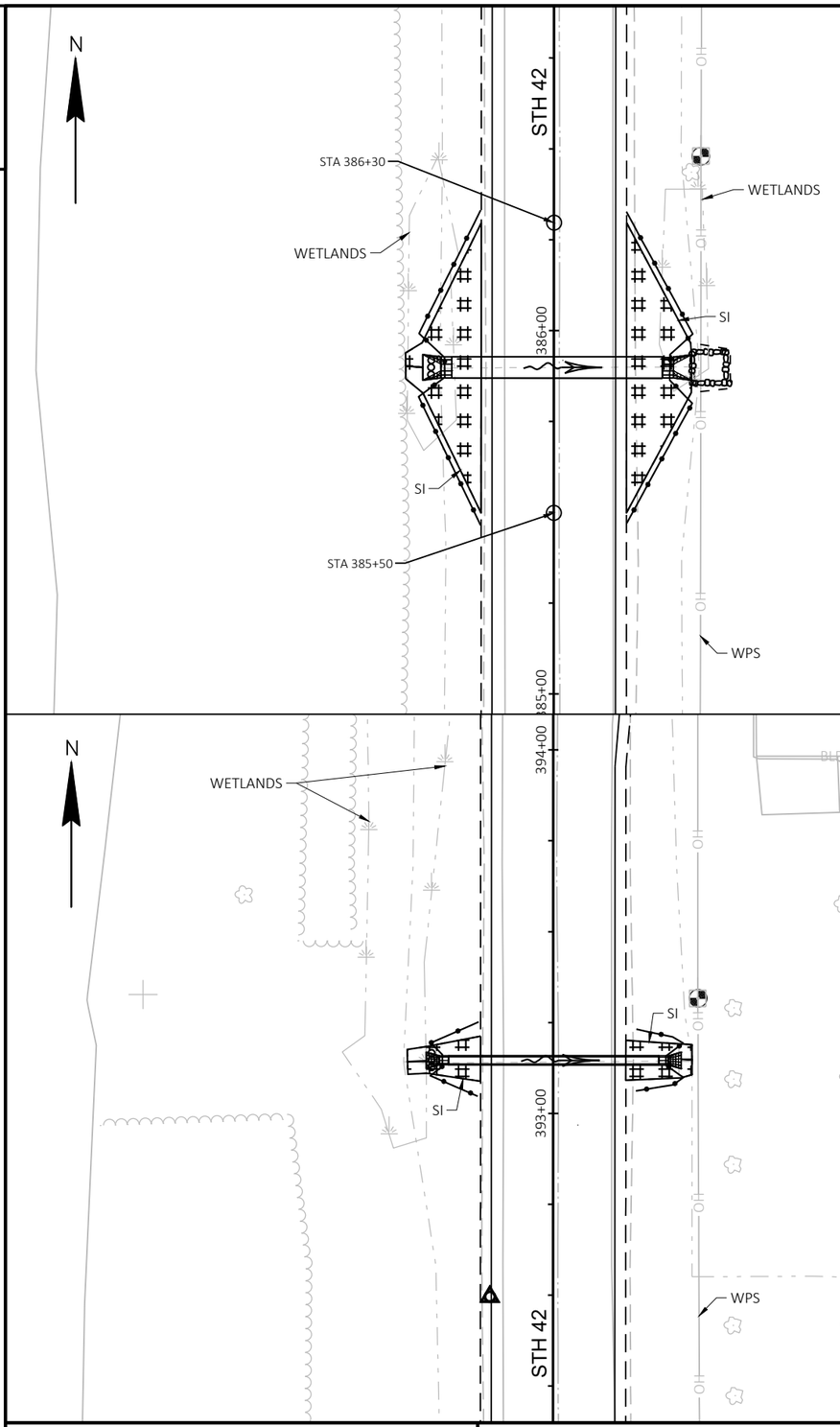


PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	EROSION CONTROL PLAN	SHEET 47	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 06

PLOT DATE : 7/26/2022 8:04 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : PLOT SCALE : 1 IN:40 FT

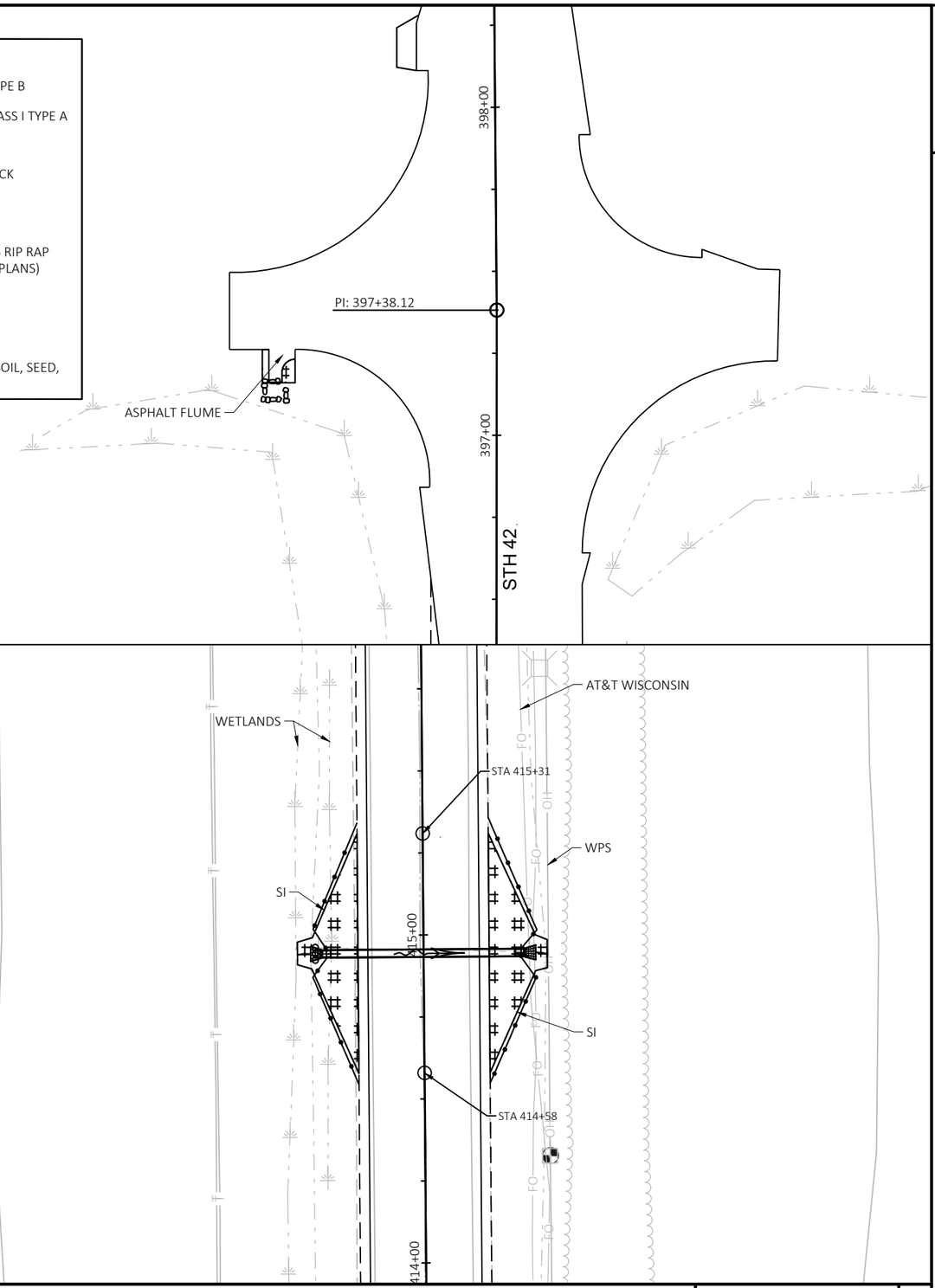
WISDOT/CADDS SHEET 42

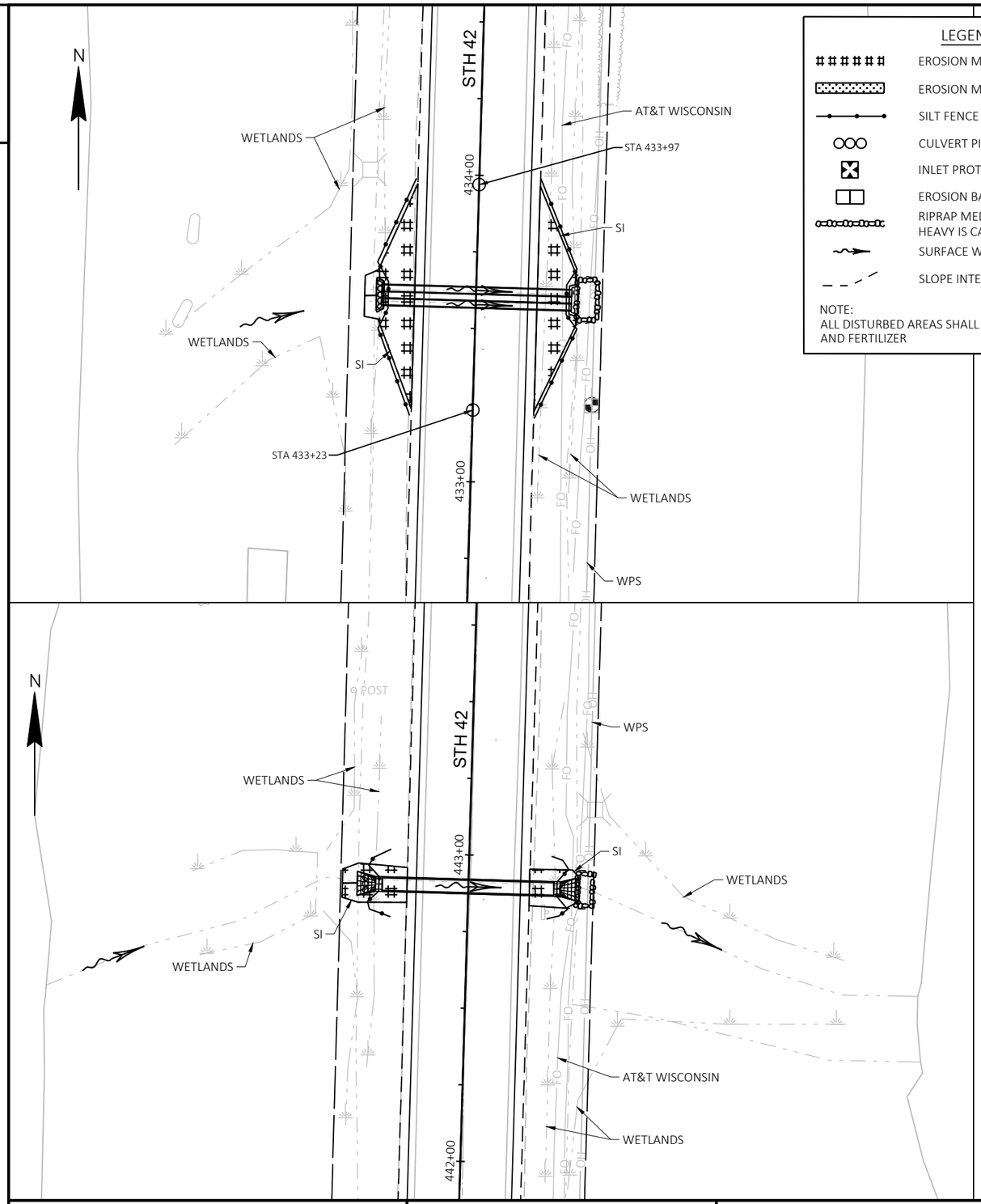


LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I TYPE A
- SILT FENCE
- CULVERT PIPE DITCH CHECK
- INLET PROTECTION
- EROSION BALE, BARRIER
- RIPRAP MEDIUM (UNLESS RIP RAP HEAVY IS CALLED OUT IN PLANS)
- SURFACE WATER FLOW
- SLOPE INTERCEPT

NOTE:
ALL DISTURBED AREAS SHALL RECEIVE TOPSOIL, SEED, AND FERTILIZER





LEGEND

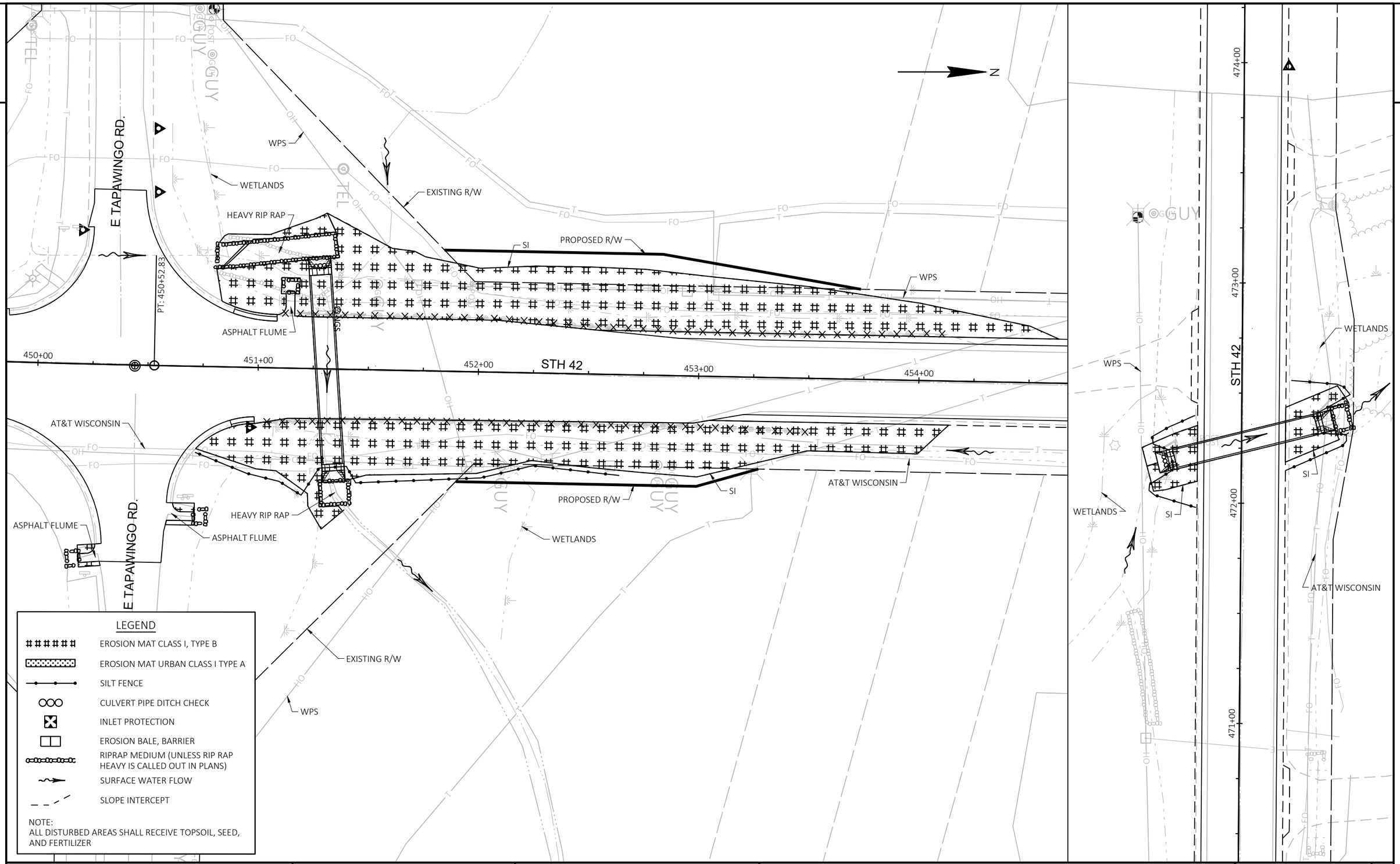
- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I TYPE A
- SILT FENCE
- CULVERT PIPE DITCH CHECK
- INLET PROTECTION
- EROSION BALE, BARRIER
- RIPRAP MEDIUM (UNLESS RIP RAP HEAVY IS CALLED OUT IN PLANS)
- SURFACE WATER FLOW
- SLOPE INTERCEPT

NOTE:
ALL DISTURBED AREAS SHALL RECEIVE TOPSOIL, SEED, AND FERTILIZER

2

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	EROSION CONTROL PLAN	SHEET 49	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 08
PLOT DATE : 7/26/2022 8:05 AM
PLOT BY : SCHERER, MEGAN S
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

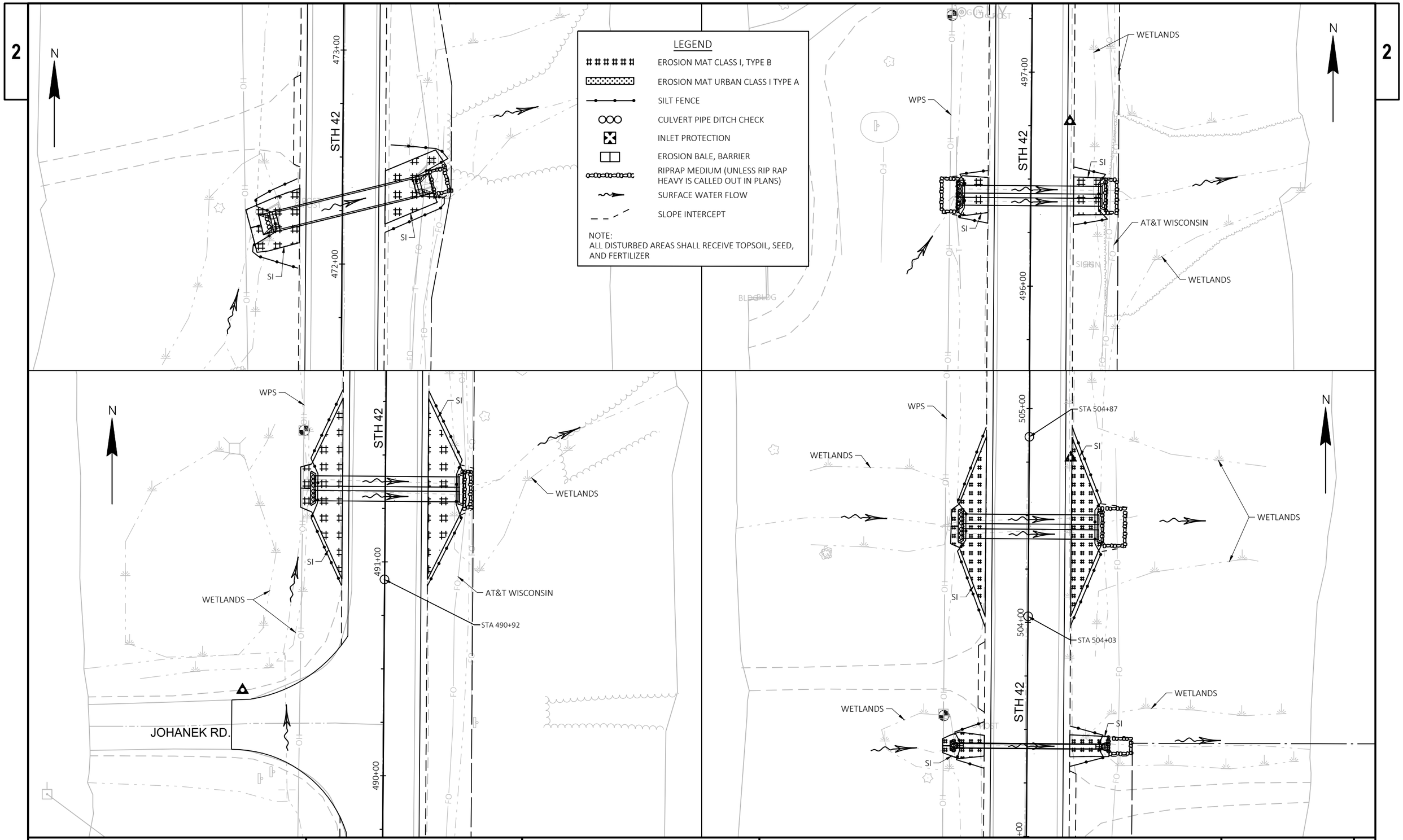


LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I TYPE A
- SILT FENCE
- CULVERT PIPE DITCH CHECK
- INLET PROTECTION
- EROSION BALE, BARRIER
- RIPRAP MEDIUM (UNLESS RIP RAP HEAVY IS CALLED OUT IN PLANS)
- SURFACE WATER FLOW
- SLOPE INTERCEPT

NOTE:
ALL DISTURBED AREAS SHALL RECEIVE TOPSOIL, SEED, AND FERTILIZER

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	EROSION CONTROL PLAN	SHEET 50	E



PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	EROSION CONTROL PLAN	SHEET 51	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 10

PLOT DATE : 7/26/2022 8:05 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

WPS

WETLANDS

STA 508+16

WETLANDS

508+00

STH 42

SI

SI

STA 507+42

507+00

TWO CREEKS RD

517+00

ASPHALT FLUME

TWO CREEKS RD

516+00

2

N

WETLANDS

STA 513+01

513+00

SI

WETLANDS

WPS

STH 42

AT&T WISCONSIN

SI

WPS

STA 512+20

512+00

GUY

LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I TYPE A
- SILT FENCE
- CULVERT PIPE DITCH CHECK
- INLET PROTECTION
- EROSION BALE, BARRIER
- RIPRAP MEDIUM (UNLESS RIP RAP HEAVY IS CALLED OUT IN PLANS)
- SURFACE WATER FLOW
- SLOPE INTERCEPT

NOTE:
ALL DISTURBED AREAS SHALL RECEIVE TOPSOIL, SEED, AND FERTILIZER

WPS

WETLANDS

N

525+00

WETLANDS

SI

STH 42

SI

524+00

AT&T WISCONSIN

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	EROSION CONTROL PLAN	SHEET 52	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 11

PLOT DATE : 7/26/2022 8:05 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I TYPE A
- SILT FENCE
- CULVERT PIPE DITCH CHECK
- INLET PROTECTION
- EROSION BALE, BARRIER
- RIPRAP MEDIUM (UNLESS RIP RAP HEAVY IS CALLED OUT IN PLANS)
- SURFACE WATER FLOW
- SLOPE INTERCEPT

NOTE:
ALL DISTURBED AREAS SHALL RECEIVE TOPSOIL, SEED, AND FERTILIZER

STH 42

532+00
531+00
530+00
529+00

LEHRMAN RD

STA 530+03
-87.90' L

BP: 0+00.00
BP: 1+12.71

WETLANDS
AT&T WISCONSIN
WPS
SI
POST
BLDG
GUY
SIGN
OH
T
FO

N

2

STH 42

540+00
539+00
538+00
537+00

STA 538+45
STA 537+72

WPS
SI
OH
FO
T

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	EROSION CONTROL PLAN	SHEET 53 E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 12

PLOT DATE : 7/26/2022 8:06 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

STH 42

541+00

542+00

543+00

544+00

545+00

546+00

EXISTING R/W

WETLANDS

PROPOSED R/W

SI

PROPOSED R/W

EXISTING R/W

WPS

WPS

EXISTING R/W

AT&T WISCONSIN

SI

HEAVY RIP RAP

PROPOSED R/W

SALVAGE AND INSTALL RIPRAP
PLACE SALVAGED ROCK AT PROPOSED OUTFALL LOCATION
IF ADDITIONAL ROCK IS NEEDED AT OUTFALL USE HEAVY RIP RAP

LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I TYPE A
- SILT FENCE
- CULVERT PIPE DITCH CHECK
- INLET PROTECTION
- EROSION BALE, BARRIER
- RIPRAP MEDIUM (UNLESS RIP RAP HEAVY IS CALLED OUT IN PLANS)
- SURFACE WATER FLOW
- SLOPE INTERCEPT

NOTE:
ALL DISTURBED AREAS SHALL RECEIVE TOPSOIL, SEED, AND FERTILIZER

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	EROSION CONTROL PLAN	SHEET 54	E

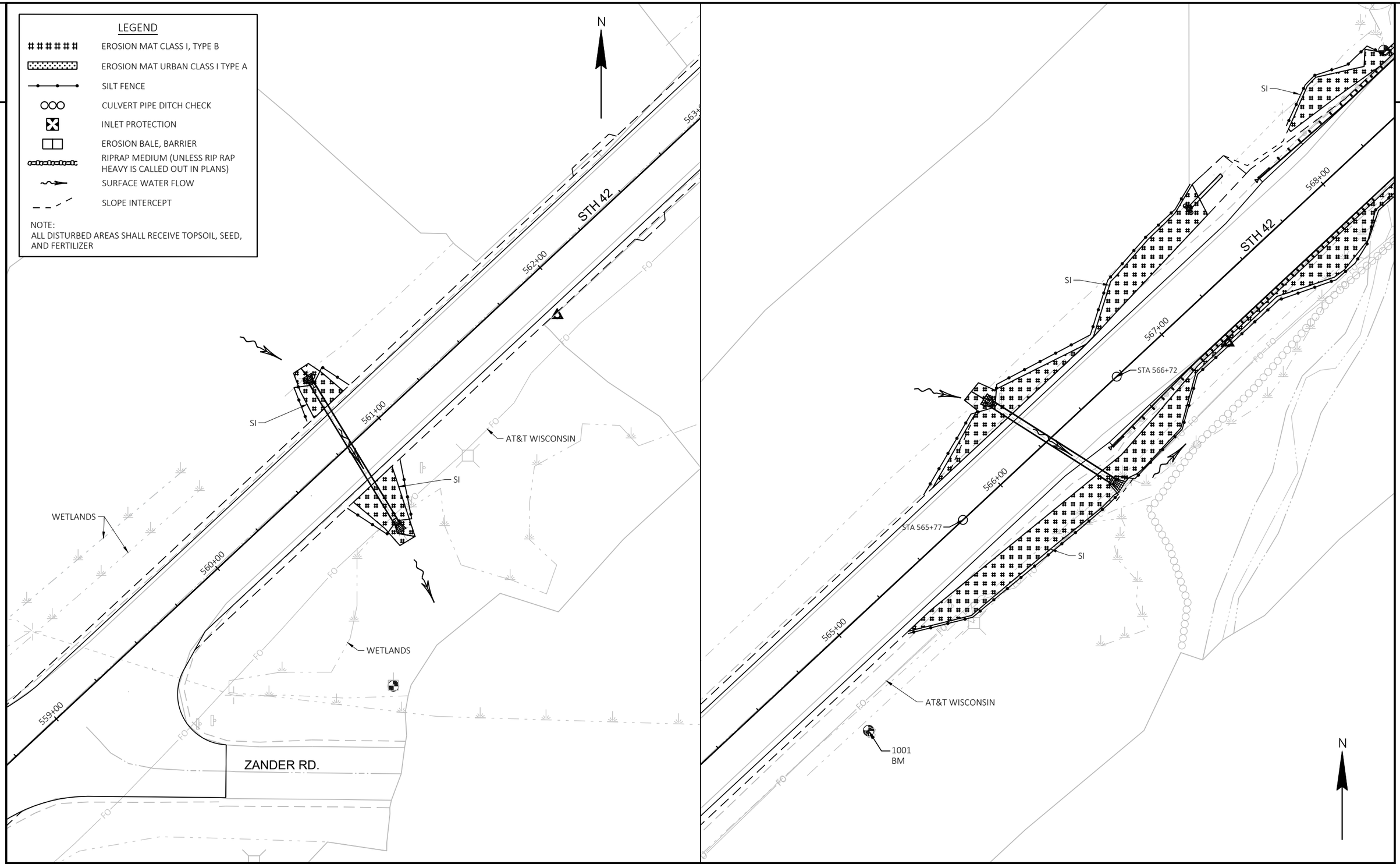
FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 13
PLOT DATE : 7/26/2022 8:06 AM
PLOT BY : SCHERER, MEGAN S
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I TYPE A
- SILT FENCE
- CULVERT PIPE DITCH CHECK
- INLET PROTECTION
- EROSION BALE, BARRIER
- RIPRAP MEDIUM (UNLESS RIP RAP HEAVY IS CALLED OUT IN PLANS)
- SURFACE WATER FLOW
- SLOPE INTERCEPT

NOTE:
ALL DISTURBED AREAS SHALL RECEIVE TOPSOIL, SEED, AND FERTILIZER



PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	EROSION CONTROL PLAN	SHEET 55	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 14
PLOT DATE : 7/26/2022 8:06 AM
PLOT BY : SCHERER, MEGAN S
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

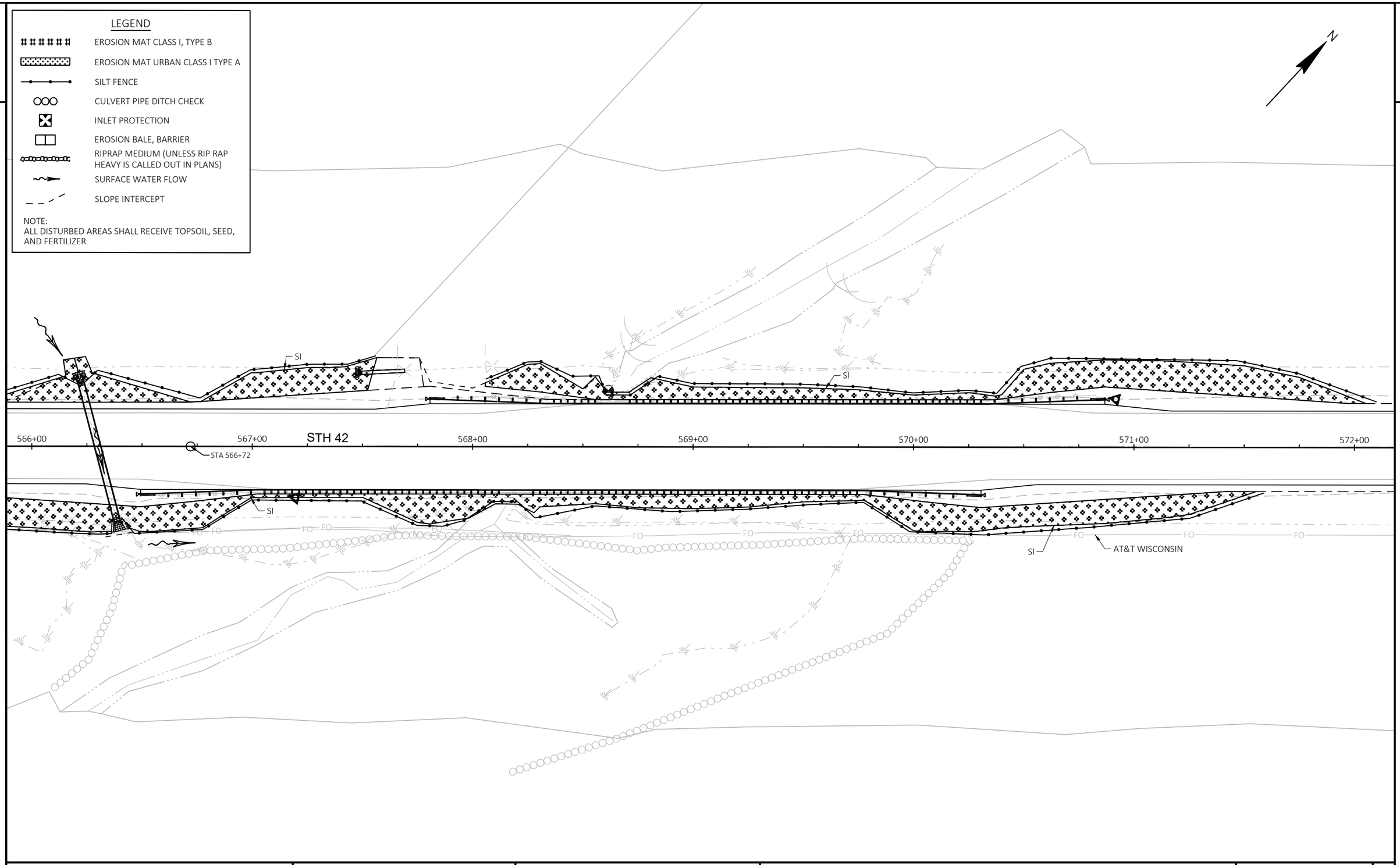
2

2

LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I TYPE A
- SILT FENCE
- CULVERT PIPE DITCH CHECK
- INLET PROTECTION
- EROSION BALE, BARRIER
- RIPRAP MEDIUM (UNLESS RIP RAP HEAVY IS CALLED OUT IN PLANS)
- SURFACE WATER FLOW
- SLOPE INTERCEPT

NOTE:
ALL DISTURBED AREAS SHALL RECEIVE TOPSOIL, SEED, AND FERTILIZER



PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	EROSION CONTROL PLAN	SHEET 56	E

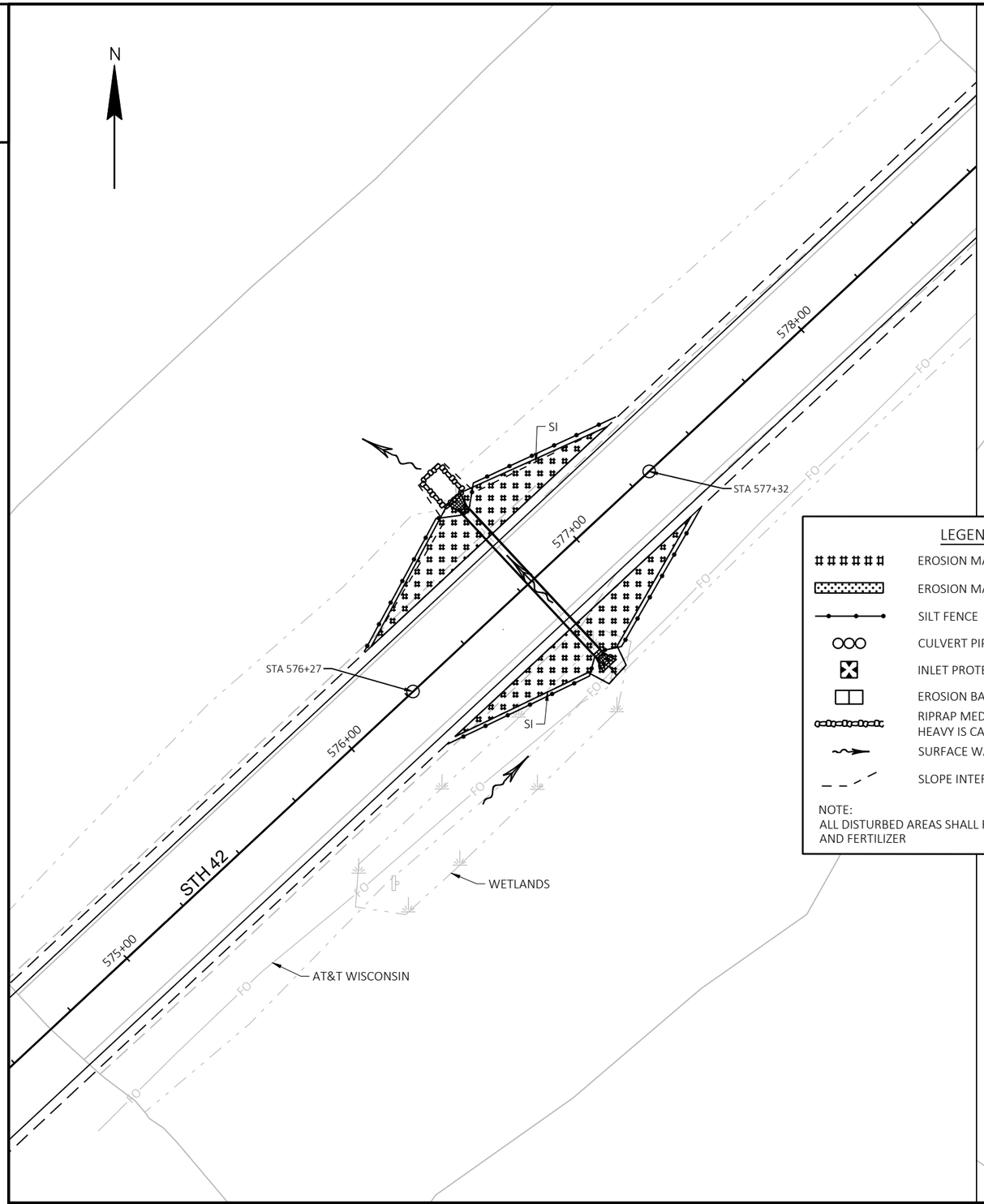
FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 15

PLOT DATE : 7/26/2022 8:06 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

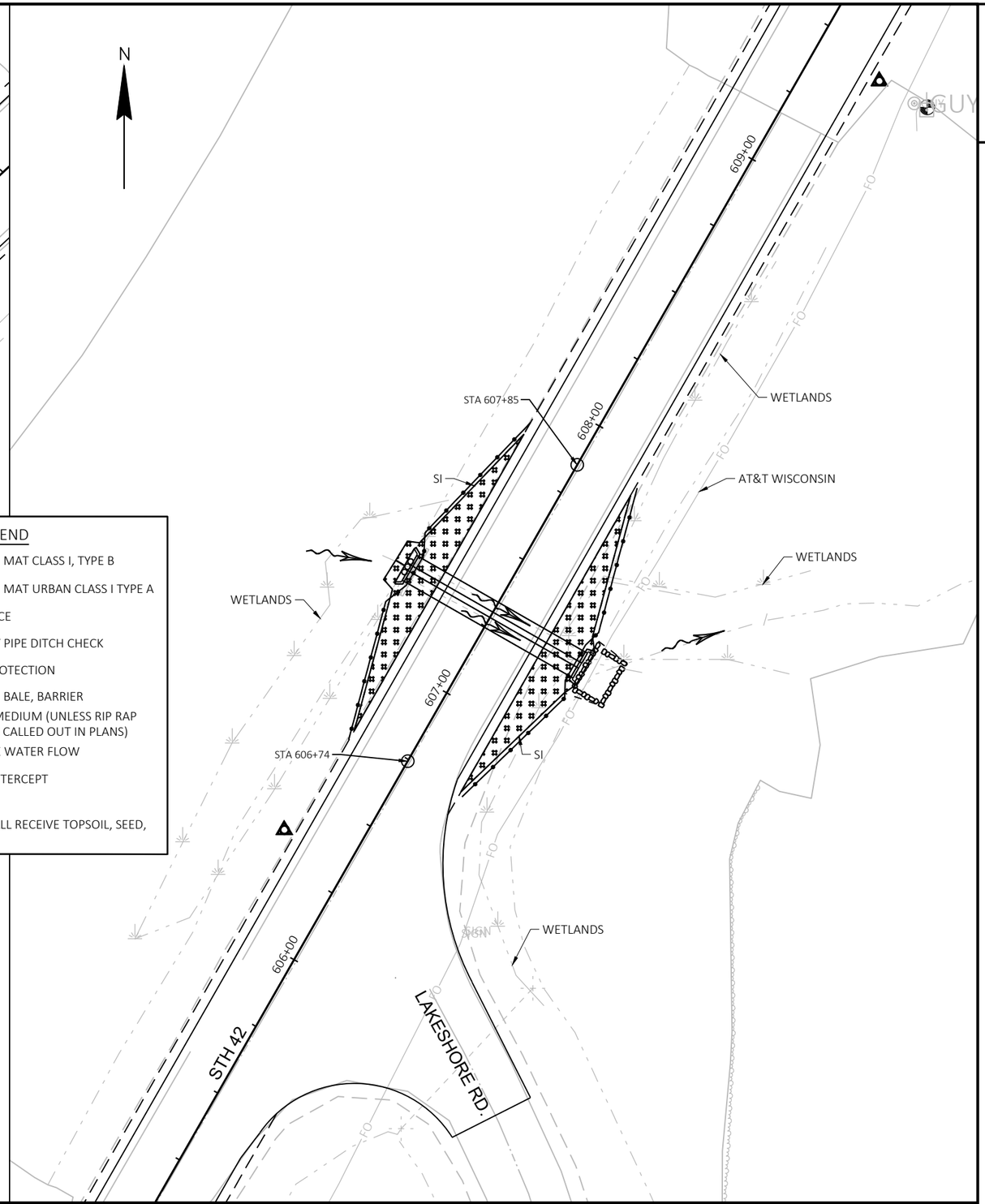


LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I TYPE A
- SILT FENCE
- CULVERT PIPE DITCH CHECK
- INLET PROTECTION
- EROSION BALE, BARRIER
- RIPRAP MEDIUM (UNLESS RIP RAP HEAVY IS CALLED OUT IN PLANS)
- SURFACE WATER FLOW
- SLOPE INTERCEPT

NOTE:
ALL DISTURBED AREAS SHALL RECEIVE TOPSOIL, SEED, AND FERTILIZER

N

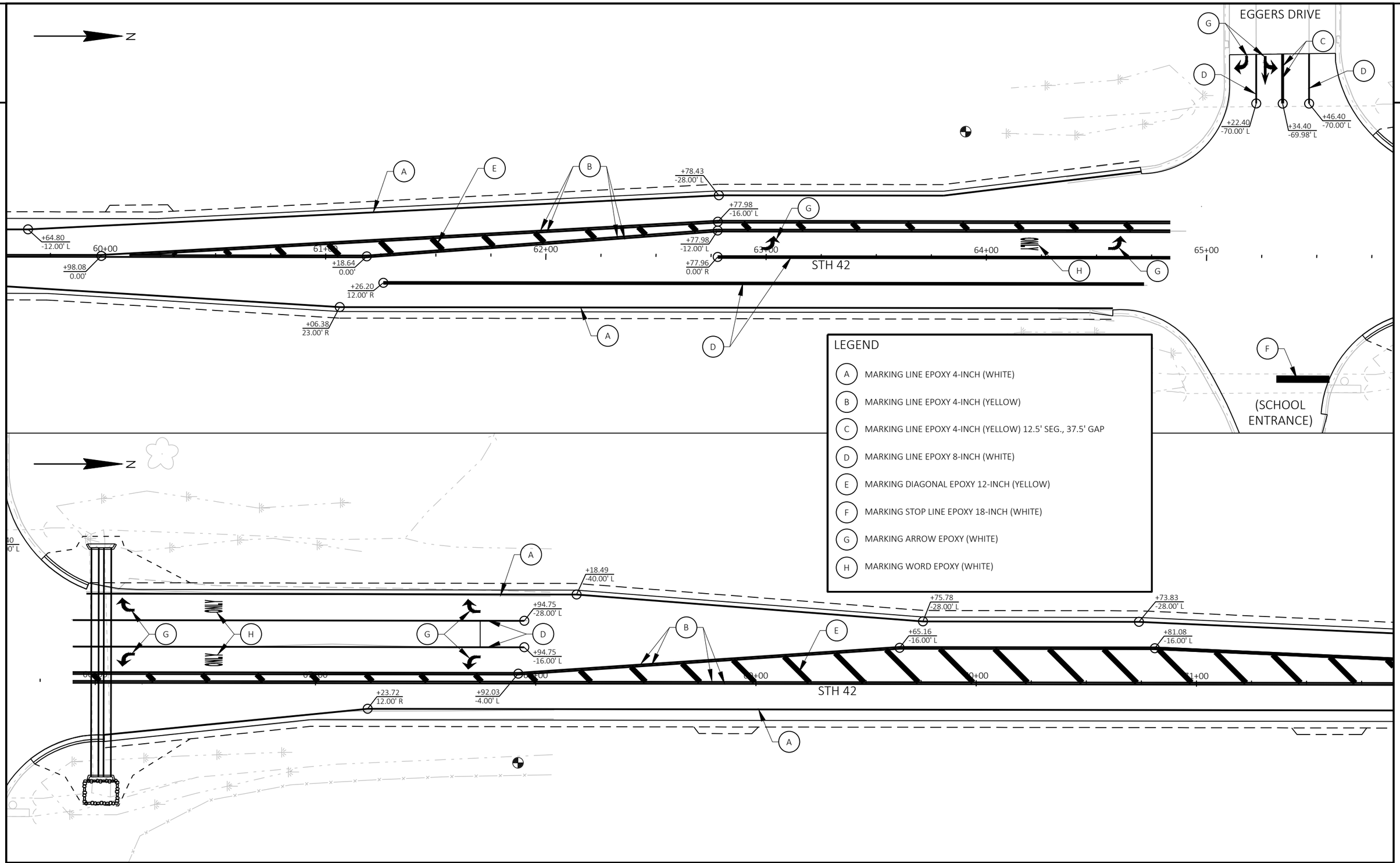


PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	EROSION CONTROL PLAN	SHEET 57	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 16

PLOT DATE : 7/26/2022 8:06 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : PLOT SCALE : 1 IN:40 FT

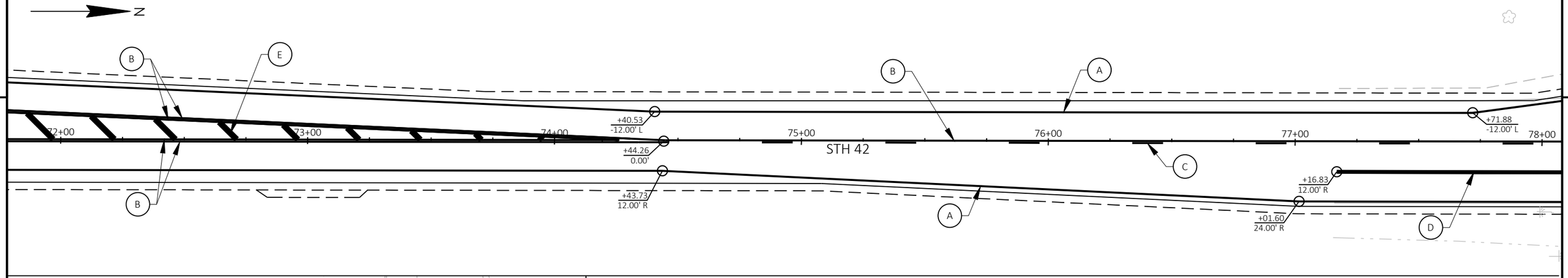
WISDOT/CADDS SHEET 42

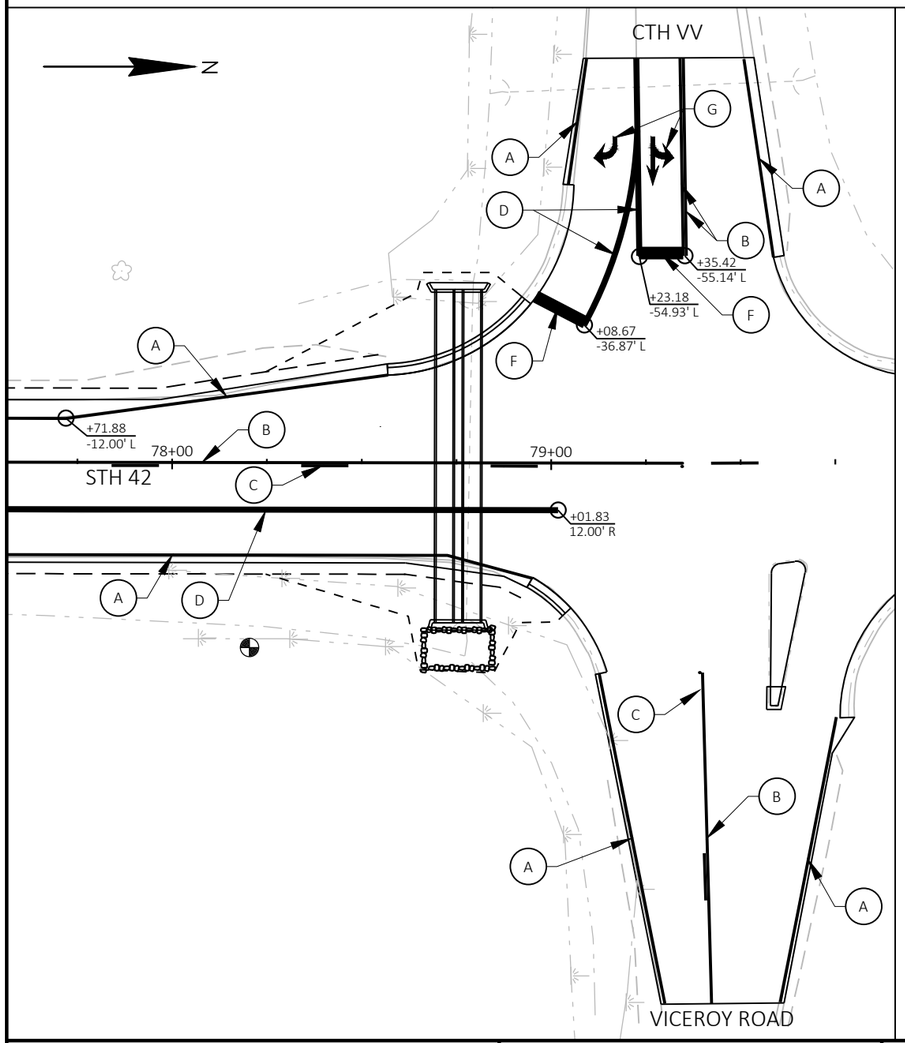


PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	PAVEMENT MARKING	SHEET 58	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 01

PLOT DATE : 7/26/2022 8:12 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : PLOT SCALE : 1 IN:40 FT





LEGEND

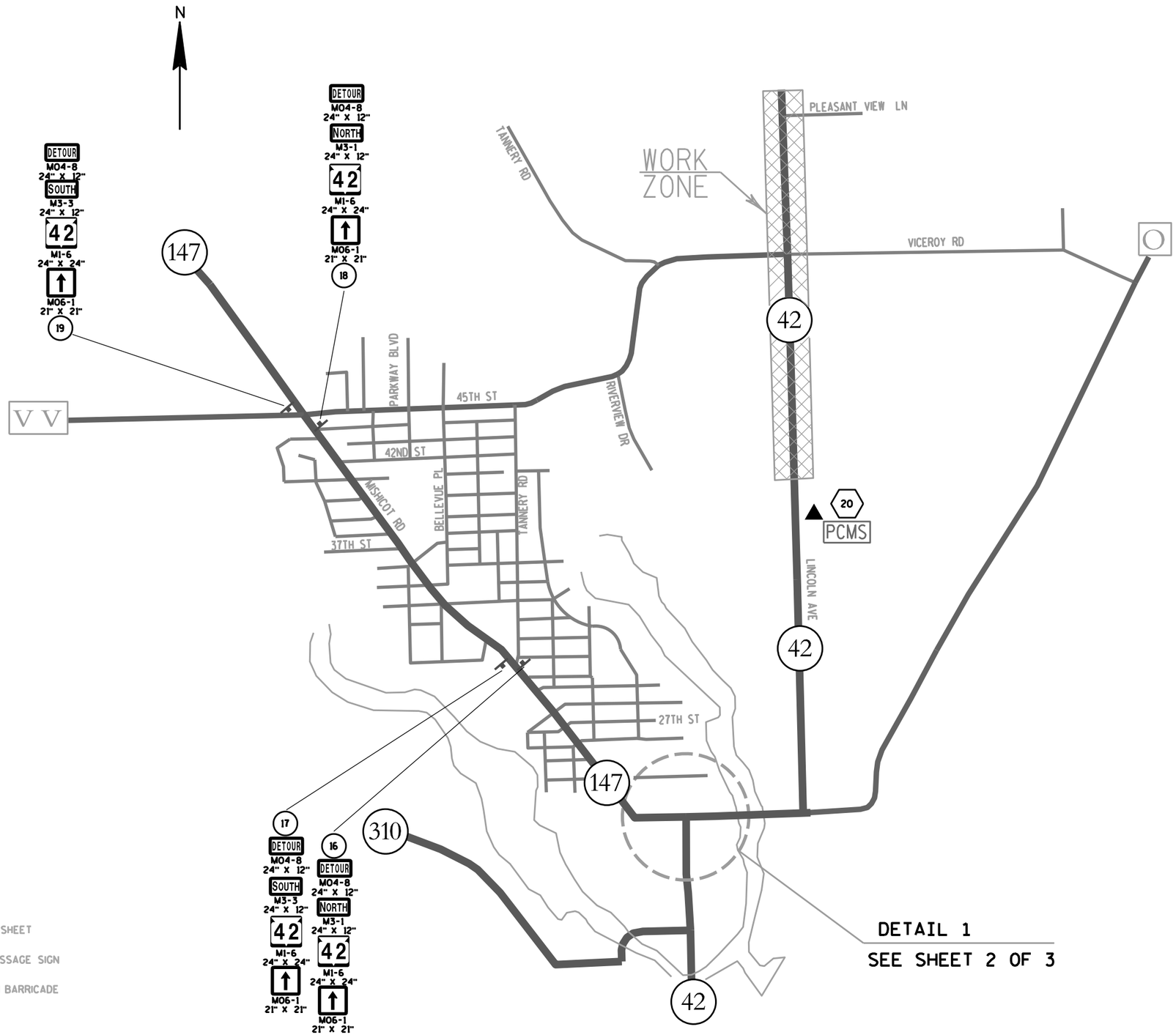
- (A) MARKING LINE EPOXY 4-INCH (WHITE)
- (B) MARKING LINE EPOXY 4-INCH (YELLOW)
- (C) MARKING LINE EPOXY 4-INCH (YELLOW) 12.5' SEG., 37.5' GAP
- (D) MARKING LINE EPOXY 8-INCH (WHITE)
- (E) MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
- (F) MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (G) MARKING ARROW EPOXY (WHITE)
- (H) MARKING WORD EPOXY (WHITE)

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	PAVEMENT MARKING	SHEET 59	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 02

PLOT DATE : 7/26/2022 8:12 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



LEGEND

- (X) SIGN NUMBER, REFER TO MISCELLANEOUS QUANTITY SHEET
- ▲ PCMS (X) PORTABLE CHANGEABLE MESSAGE SIGN
- SIGN MOUNTED ON TYPE III BARRICADE
- POST MOUNTED SIGN

DETAIL 1

SEE SHEET 2 OF 3

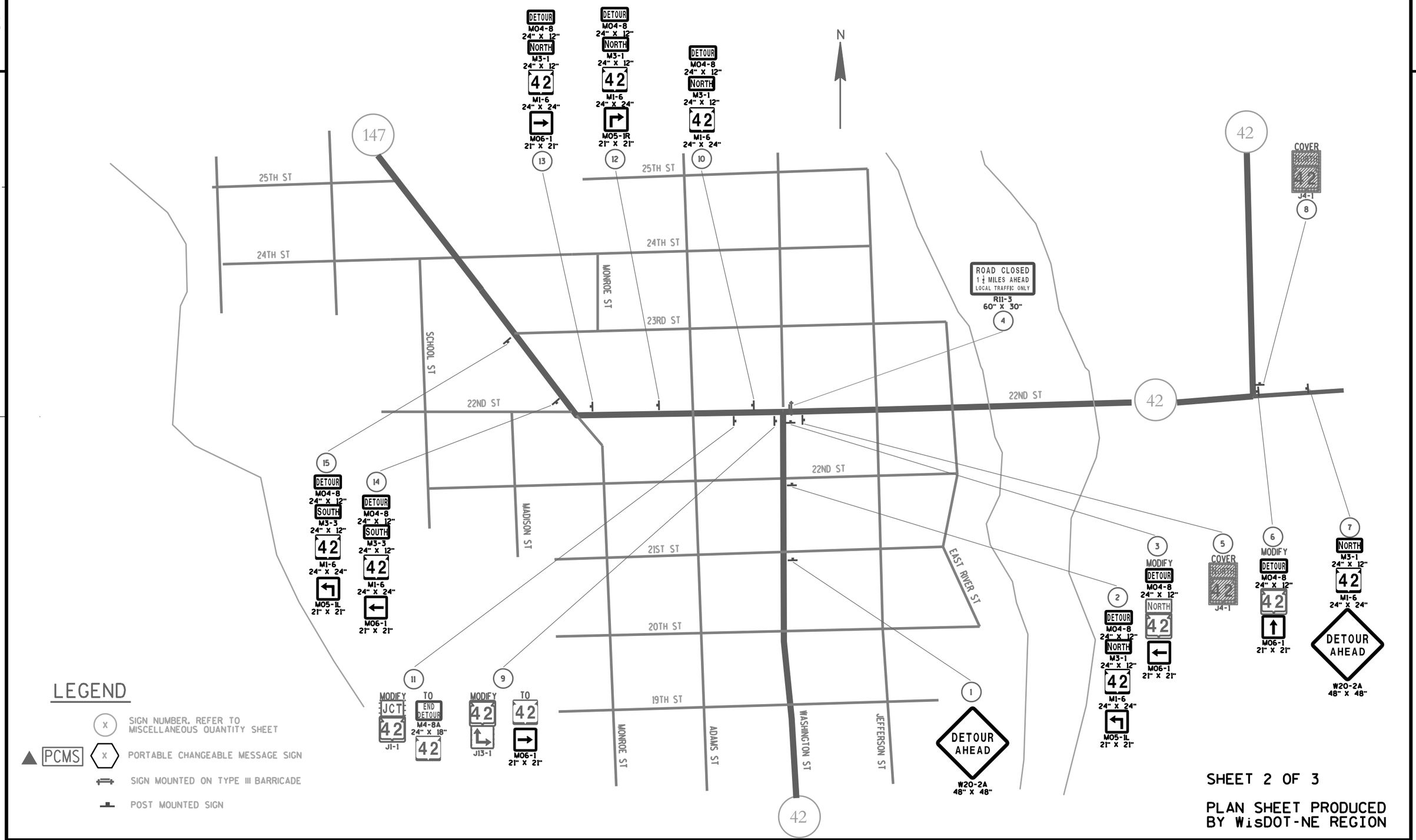
SHEET 1 OF 3

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	DETOUR SIGNING DETAIL (CTH V - TWO RIVERS)	SHEET	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42



SHEET 2 OF 3

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	DETOUR SIGNING DETAIL (CTH V - TWO RIVERS)	SHEET	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

N

147

B

V

42

DIVISION DRIVE

DETOUR AHEAD
W20-2A
48" x 48"
40

BRIDGE OUT
2 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3B
60" x 30"

DETOUR
M4-9R
30" x 24"
32

MODIFY
FROM 42 COUNTY V
TO 42 COUNTY V
J13-2
M06-6
21" x 21"
36

Point Beach State Forest
Mishicot
COVER
D2-3
38

DETOUR
M04-8
24" x 12"
SOUTH
M3-3
24" x 12"
42
M1-6
24" x 24"
M06-1
21" x 21"
24

DETOUR
M04-8
24" x 12"
NORTH
M3-1
24" x 12"
42
M1-6
24" x 24"
25

DETOUR
M04-8
24" x 12"
SOUTH
M3-3
24" x 12"
42
M1-6
24" x 24"
M05-1L
21" x 21"
26

DETOUR
M04-8
24" x 12"
SOUTH
M3-3
24" x 12"
42
M1-6
24" x 24"
M06-1
21" x 21"
28

DETOUR
M04-8
24" x 12"
SOUTH
M3-3
24" x 12"
42
M1-6
24" x 24"
30

DETOUR
M04-8
24" x 12"
SOUTH
M3-3
24" x 12"
42
M1-6
24" x 24"
M06-1
21" x 21"
37

DETOUR
M04-8
24" x 12"
SOUTH
M3-3
24" x 12"
42
M1-6
24" x 24"
M05-1R
21" x 21"
39

DETOUR
M04-8
24" x 12"
NORTH
M3-1
24" x 12"
42
M1-6
24" x 24"
M06-1
21" x 21"
23

DETOUR
M04-8
24" x 12"
NORTH
M3-1
24" x 12"
42
M1-6
24" x 24"
M05-1R
21" x 21"
21

DETOUR
M04-8
24" x 12"
SOUTH
M3-3
24" x 12"
42
M1-6
24" x 24"
22

DETOUR
M04-8
24" x 12"
SOUTH
M3-3
24" x 12"
42
M1-6
24" x 24"
M06-1
21" x 21"
27

PCMS
34

MODIFY
FROM JCT 42
TO END DETOUR
M4-8A
24" x 18"
42
J1-1
29

MODIFY
FROM 42 COUNTY V
TO 42 COUNTY V
J13-2
M06-1
21" x 21"
31

COVER
J4-1
35

COVER
D1-2
33

LEGEND

- (X) SIGN NUMBER, REFER TO MISCELLANEOUS QUANTITY SHEET
- ▲ PCMS (X) PORTABLE CHANGEABLE MESSAGE SIGN
- SIGN MOUNTED ON TYPE III BARRICADE
- POST MOUNTED SIGN

SHEET 3 OF 3

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	DETOUR SIGNING DETAIL (CTH V - TWO RIVERS)	SHEET	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

2

B

MATCH LINE

SEE SHEET 2 OF 2

42

N

2

147

B

V

147

DIVISION DRIVE

42

V

PCMS

PCMS

21 DETOUR M04-8 24" x 12" / SOUTH M3-3 24" x 12" / 42 M1-6 24" x 24" / M06-1 21" x 21"

23 DETOUR M04-8 24" x 12" / SOUTH M3-3 24" x 12" / 42 M1-6 24" x 24" / M05-1L 21" x 21"

22 DETOUR M04-8 24" x 12" / NORTH M3-1 24" x 12" / 42 M1-6 24" x 24"

20 DETOUR M04-8 24" x 12" / NORTH M3-1 24" x 12" / 42 M1-6 24" x 24" / M06-1 21" x 21"

19 DETOUR M04-8 24" x 12" / NORTH M3-1 24" x 12" / 42 M1-6 24" x 24" / M05-1R 21" x 21"

16 DETOUR M04-8 24" x 12" / NORTH M3-1 24" x 12" / 42 M1-6 24" x 24" / M06-1 21" x 21"

14 DETOUR M04-8 24" x 12" / NORTH M3-1 24" x 12" / 42 M1-6 24" x 24" / M05-1R 21" x 21"

12 DETOUR M04-8 24" x 12" / NORTH M3-1 24" x 12" / 42 M1-6 24" x 24" / M06-1 21" x 21"

10 DETOUR M04-8 24" x 12" / NORTH M3-1 24" x 12" / 42 M1-6 24" x 24"

8 COVER D1-2

6 COVER J4-1

5 BRIDGE OUT 2 MILES AHEAD LOCAL TRAFFIC ONLY R11-3B 60" x 30" / DETOUR M04-9L 30" x 24"

4A MODIFY FROM 42 COUNTY V J13-2 TO 42 COUNTY V M06-1 21" x 21"

18 DETOUR M04-8 24" x 12" / SOUTH M3-3 24" x 12" / 42 M1-6 24" x 24" / M05-1L 21" x 21"

17 DETOUR M04-8 24" x 12" / SOUTH M3-3 24" x 12" / 42 M1-6 24" x 24" / M06-1 21" x 21"

15 DETOUR M04-8 24" x 12" / SOUTH M3-3 24" x 12" / 42 M1-6 24" x 24"

13 DETOUR M04-8 24" x 12" / SOUTH M3-3 24" x 12" / 42 M1-6 24" x 24" / M06-1 21" x 21"

11 MODIFY FROM JCT 42 J1-1 TO END DETOUR M4-8A 24" x 18" / 42

9 MODIFY FROM 42 COUNTY V J13-2 TO 42 COUNTY V M06-1 21" x 21"

7 PCMS

1 DETOUR AHEAD W20-2A 48" x 48"

2 DETOUR M04-8 24" x 12" / NORTH M3-1 24" x 12" / 42 M1-6 24" x 24" / M05-1L 21" x 21"

3 COVER 51 Mishicot / Point Beach State Forest D2-3

4 DETOUR M04-8 24" x 12" / NORTH M3-1 24" x 12" / 42 M1-6 24" x 24" / M06-1 21" x 21"

LEGEND

- (X) SIGN NUMBER, REFER TO MISCELLANEOUS QUANTITY SHEET
- ▲ PCMS (X) PORTABLE CHANGEABLE MESSAGE SIGN
- SIGN MOUNTED ON TYPE III BARRICADE
- POST MOUNTED SIGN

SHEET 1 OF 2
PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	DETOUR SIGNING DETAIL (NCL - CTH V)	SHEET	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

2

N

AB

B

BB

TOWNHALL RD

42

DETOUR AHEAD
W20-2A
48" x 48"
43

PCMS
39

25 — DETOUR M04-8 24" x 12" / SOUTH M3-3 24" x 12" / 42 M1-6 24" x 24"

27 — DETOUR M04-8 24" x 12" / SOUTH M3-3 24" x 12" / 42 M1-6 24" x 24" / M06-1 21" x 21"

29 — DETOUR M04-8 24" x 12" / SOUTH M3-3 24" x 12" / 42 M1-6 24" x 24" / M05-1L 21" x 21"

31 — DETOUR M04-8 24" x 12" / SOUTH M3-3 24" x 12" / 42 M1-6 24" x 24" / M06-1 21" x 21"

32 — DETOUR M04-8 24" x 12" / NORTH M3-1 24" x 12" / 42 M1-6 24" x 24" / M06-1 21" x 21"

33 — DETOUR M04-8 24" x 12" / SOUTH M3-3 24" x 12" / 42 M1-6 24" x 24" / M06-1 21" x 21"

36 — DETOUR M04-8 24" x 12" / SOUTH M3-3 24" x 12" / 42 M1-6 24" x 24"

41 — DETOUR M04-8 24" x 12" / SOUTH M3-3 24" x 12" / 42 M1-6 24" x 24" / M06-1 21" x 21"

42 — DETOUR M04-8 24" x 12" / SOUTH M3-3 24" x 12" / 42 M1-6 24" x 24" / M05-1R 21" x 21"

34 — MODIFY
FROM: JCT END 42 BB COUNTY — J1-2
TO: END DETOUR M4-8A 24" x 18"; JCT END 42 BB COUNTY — J1-2

35 — Kewaunee — D1-2 COVER

38 — COVER — J4-1

37 — NORTH M3-1 24" x 12" / 42 M1-6 24" x 24" / M06-1 21" x 21"

40 — BRIDGE OUT 1/2 MILES AHEAD LOCAL TRAFFIC ONLY R11-3B 60" x 30" / DETOUR M4-9R 30" x 24"

24 — DETOUR M04-8 24" x 12" / NORTH M3-1 24" x 12" / 42 M1-6 24" x 24" / M05-1R 21" x 21"

26 — DETOUR M04-8 24" x 12" / NORTH M3-1 24" x 12" / 42 M1-6 24" x 24" / M06-1 21" x 21"

28 — DETOUR M04-8 24" x 12" / NORTH M3-1 24" x 12" / 42 M1-6 24" x 24"

30 — DETOUR M04-8 24" x 12" / NORTH M3-1 24" x 12" / 42 M1-6 24" x 24" / M06-1 21" x 21"

LEGEND

- (x) SIGN NUMBER, REFER TO MISCELLANEOUS QUANTITY SHEET
- ▲ PCMS (x) PORTABLE CHANGEABLE MESSAGE SIGN
- SIGN MOUNTED ON TYPE III BARRICADE
- POST MOUNTED SIGN

B MATCH LINE

SEE SHEET 1 OF 2 (42)

SHEET 2 OF 2
PLAN SHEET PRODUCED
BY WisDOT-NE REGION

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	DETOUR SIGNING DETAIL (NCL - CTH V)	SHEET	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

1470-30-71

Line	Item	Item Description	Unit	Total	Qty
0002	201.0110	Clearing	SY	260.000	260.000
0004	201.0210	Grubbing	SY	260.000	260.000
0006	203.0100	Removing Small Pipe Culverts	EACH	52.000	52.000
0008	203.0220	Removing Structure (structure) 01. C-36-0007	EACH	1.000	1.000
0010	203.0220	Removing Structure (structure) 02. C-36-0008	EACH	1.000	1.000
0012	203.0220	Removing Structure (structure) 03. C-36-0010	EACH	1.000	1.000
0014	203.0250	Removing Structure Over Waterway Remove Debris (structure) 01. C-36-05	EACH	1.000	1.000
0016	204.0100	Removing Concrete Pavement	SY	2,430.000	2,430.000
0018	204.0110	Removing Asphaltic Surface	SY	60.000	60.000
0020	204.0115	Removing Asphaltic Surface Butt Joints	SY	404.000	404.000
0022	204.0120	Removing Asphaltic Surface Milling	SY	223,019.000	223,019.000
0024	204.0150	Removing Curb & Gutter	LF	225.000	225.000
0026	204.0165	Removing Guardrail	LF	2,493.000	2,493.000
0028	204.0180	Removing Delineators and Markers	EACH	64.000	64.000
0030	204.0185	Removing Masonry	CY	19.000	19.000
0032	205.0100	Excavation Common	CY	9,278.000	9,278.000
0034	206.2001	Excavation for Structures Culverts (structure) 01. C-36-102	EACH	1.000	1.000
0036	208.0100	Borrow	CY	3,055.000	3,055.000
0038	210.2500	Backfill Structure Type B	TON	2,070.000	2,070.000
0040	211.0700.S	Prepare Foundation for CIR Base Layer (project) 01. 1470-30-71	EACH	1.000	1.000
0042	213.0100	Finishing Roadway (project) 01. 1470-30-71	EACH	1.000	1.000
0044	305.0110	Base Aggregate Dense 3/4-Inch	TON	2,403.000	2,403.000
0046	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	9,282.000	9,282.000
0048	305.0500	Shaping Shoulders	STA	1,066.000	1,066.000
0050	305.0504.S	Hauling Excess Shoulder Material	CY	1,316.000	1,316.000
0052	311.0115	Breaker Run	CY	105.000	105.000
0054	312.0115	Select Crushed Material	CY	12.000	12.000
0056	327.1000.S	CIR Asphaltic Base Layer	SY	223,700.000	223,700.000
0058	455.0605	Tack Coat	GAL	20,586.000	20,586.000
0060	455.0770.S	Asphalt Stabilizing Agent	TON	1,006.000	1,006.000
0062	460.0105.S	HMA Percent Within Limits (PWL) Test Strip Volumetrics	EACH	1.000	1.000
0064	460.0110.S	HMA Percent Within Limits (PWL) Test Strip Density	EACH	2.000	2.000
0066	460.2005	Incentive Density PWL HMA Pavement	DOL	23,300.000	23,300.000
0068	460.2007	Incentive Density HMA Pavement Longitudinal Joints	DOL	47,400.000	47,400.000
0070	460.2010	Incentive Air Voids HMA Pavement	DOL	36,400.000	36,400.000
0072	460.5224	HMA Pavement 4 LT 58-28 S	TON	36,343.000	36,343.000
0074	465.0105	Asphaltic Surface	TON	2,958.000	2,958.000
0076	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	100.000	100.000
0078	465.0315	Asphaltic Flumes	SY	38.000	38.000
0080	465.0425	Asphaltic Shoulder Rumble Strips 2-Lane Rural	LF	92,137.000	92,137.000
0082	465.0475	Asphalt Centerline Rumble Strips 2-Lane Rural	LF	46,800.000	46,800.000
0084	504.0100	Concrete Masonry Culverts	CY	185.000	185.000
0086	504.0900	Concrete Masonry Endwalls	CY	60.000	60.000
0088	505.0400	Bar Steel Reinforcement HS Structures	LB	20,570.000	20,570.000
0090	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	4,590.000	4,590.000
0092	516.0500	Rubberized Membrane Waterproofing	SY	35.000	35.000
0094	520.1018	Apron Endwalls for Culvert Pipe 18-Inch	EACH	7.000	7.000
0096	520.1024	Apron Endwalls for Culvert Pipe 24-Inch	EACH	8.000	8.000
0098	520.1036	Apron Endwalls for Culvert Pipe 36-Inch	EACH	2.000	2.000

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Line	Item	Item Description	Unit	Total	Qty
0100	520.3418	Culvert Pipe Class III-A Non-metal 18-Inch	LF	156.000	156.000
0102	520.3424	Culvert Pipe Class III-A Non-metal 24-Inch	LF	246.000	246.000
0104	520.3436	Culvert Pipe Class III-A Non-metal 36-Inch	LF	538.000	538.000
0106	520.8000	Concrete Collars for Pipe	EACH	1.000	1.000
0108	520.8700	Cleaning Culvert Pipes	EACH	1.000	1.000
0110	522.0148	Culvert Pipe Reinforced Concrete Class III 48-Inch	LF	56.000	56.000
0112	522.0424	Culvert Pipe Reinforced Concrete Class IV 24-Inch	LF	308.000	308.000
0114	522.0430	Culvert Pipe Reinforced Concrete Class IV 30-Inch	LF	238.000	238.000
0116	522.0436	Culvert Pipe Reinforced Concrete Class IV 36-Inch	LF	468.000	468.000
0118	522.0448	Culvert Pipe Reinforced Concrete Class IV 48-Inch	LF	284.000	284.000
0120	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	2.000	2.000
0122	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	10.000	10.000
0124	522.1048	Apron Endwalls for Culvert Pipe Reinforced Concrete 48-Inch	EACH	2.000	2.000
0126	522.2363	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 63x98-Inch	LF	66.000	66.000
0128	522.2368	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 68x106-Inch	LF	200.000	200.000
0130	522.2419	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 19x30-Inch	LF	120.000	120.000
0132	522.2424	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 24x38-Inch	LF	240.000	240.000
0134	522.2429	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 29x45-Inch	LF	500.000	500.000
0136	522.2434	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 34x53-Inch	LF	176.000	176.000
0138	522.2619	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 19x30-Inch	EACH	4.000	4.000
0140	522.2638	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 38x60-Inch	EACH	2.000	2.000
0142	522.2663	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 63x98-Inch	EACH	2.000	2.000
0144	522.2668	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 68x106-Inch	EACH	4.000	4.000
0146	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	195.000	195.000
0148	606.0200	Riprap Medium	CY	251.000	251.000
0150	606.0300	Riprap Heavy	CY	45.000	45.000
0152	614.2330	MGS Guardrail 3 K	LF	362.500	362.500
0154	614.2610	MGS Guardrail Terminal EAT	EACH	8.000	8.000
0156	618.0100	Maintenance And Repair of Haul Roads (project) 01. 1470-30-71	EACH	1.000	1.000
0158	619.1000	Mobilization	EACH	1.000	1.000
0160	620.0300	Concrete Median Sloped Nose	SF	480.000	480.000
0162	624.0100	Water	MGAL	133.000	133.000
0164	625.0500	Salvaged Topsoil	SY	15,733.000	15,733.000
0166	628.1504	Silt Fence	LF	10,734.000	10,734.000
0168	628.1520	Silt Fence Maintenance	LF	21,468.000	21,468.000
0170	628.1905	Mobilizations Erosion Control	EACH	22.000	22.000
0172	628.1910	Mobilizations Emergency Erosion Control	EACH	12.000	12.000
0174	628.2004	Erosion Mat Class I Type B	SY	15,733.000	15,733.000
0176	628.7015	Inlet Protection Type C	EACH	3.000	3.000
0178	628.7555	Culvert Pipe Checks	EACH	379.000	379.000
0180	629.0210	Fertilizer Type B	CWT	11.300	11.300
0182	630.0120	Seeding Mixture No. 20	LB	457.000	457.000
0184	630.0500	Seed Water	MGAL	378.000	378.000
0186	633.5200	Markers Culvert End	EACH	68.000	68.000
0188	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	2.000	2.000
0190	638.2102	Moving Signs Type II	EACH	2.000	2.000
0192	638.3000	Removing Small Sign Supports	EACH	2.000	2.000
0194	642.5001	Field Office Type B	EACH	1.000	1.000
0196	643.0300	Traffic Control Drums	DAY	210.000	210.000

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Line	Item	Item Description	Unit	Total	Qty
0198	643.0420	Traffic Control Barricades Type III	DAY	8,646.000	8,646.000
0200	643.0705	Traffic Control Warning Lights Type A	DAY	17,292.000	17,292.000
0202	643.0900	Traffic Control Signs	DAY	31,524.000	31,524.000
0204	643.0920	Traffic Control Covering Signs Type II	EACH	10.000	10.000
0206	643.1050	Traffic Control Signs PCMS	DAY	42.000	42.000
0208	643.3105	Temporary Marking Line Paint 4-Inch	LF	9,466.000	9,466.000
0210	643.3120	Temporary Marking Line Epoxy 4-Inch	LF	4,733.000	4,733.000
0212	643.5000	Traffic Control	EACH	1.000	1.000
0214	645.0105	Geotextile Type C	SY	350.000	350.000
0216	645.0120	Geotextile Type HR	SY	915.000	915.000
0218	646.1020	Marking Line Epoxy 4-Inch	LF	34,906.000	34,906.000
0220	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	115,467.000	115,467.000
0222	646.3040	Marking Line Grooved Wet Ref Epoxy 8-Inch	LF	3,450.000	3,450.000
0224	646.5020	Marking Arrow Epoxy	EACH	10.000	10.000
0226	646.5120	Marking Word Epoxy	EACH	3.000	3.000
0228	646.6120	Marking Stop Line Epoxy 18-Inch	LF	52.000	52.000
0230	646.7020	Marking Diagonal Epoxy 6-Inch	LF	340.000	340.000
0232	650.6000	Construction Staking Pipe Culverts	EACH	53.000	53.000
0234	650.6501	Construction Staking Structure Layout (structure) 01. C-36-0102	EACH	1.000	1.000
0236	650.8000	Construction Staking Resurfacing Reference	LF	59,156.000	59,156.000
0238	650.9911	Construction Staking Supplemental Control (project) 01. 1470-30-71	EACH	1.000	1.000
0240	650.9920	Construction Staking Slope Stakes	LF	2,091.000	2,091.000
0242	690.0150	Sawing Asphalt	LF	1,781.000	1,781.000
0244	740.0440	Incentive IRI Ride	DOL	44,880.000	44,880.000
0246	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 01. 179+30	EACH	1.000	1.000
0248	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 02. 451+26	EACH	1.000	1.000
0250	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 03. 472+23	EACH	1.000	1.000
0252	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 04. 543+17	EACH	1.000	1.000
0254	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,400.000	2,400.000
0256	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	3,040.000	3,040.000
0258	SPV.0035	Special 01. Foundation Backfill	CY	5,015.000	5,015.000
0260	SPV.0035	Special 02. Salvage and Install Riprap	CY	17.000	17.000
0262	SPV.0060	Special 01. Temporary Water Diversion Molash Creek Station 179+35	EACH	1.000	1.000
0264	SPV.0060	Special 02. Temporary Water Diversion Stream Station 451+26	EACH	1.000	1.000
0266	SPV.0060	Special 03. Temporary Water Diversion Stream Station 472+23	EACH	1.000	1.000
0268	SPV.0060	Special 04. Temporary Water Diversion Stream Station 543+17	EACH	1.000	1.000
0270	SPV.0090	Special 01. Culvert Pipe Reinforced Concrete Horiz Elliptical Class HE-IV 38X60-INCH	LF	58.000	58.000
0272	SPV.0090	Special 02. MGS Guardrail (3L) Modified	LF	437.500	437.500

3

CURB & GUTTER

CATEGORY	STATION	TO	STATION	LOCATION	204.0150 REMOVING CURB & GUTTER LF	601.0557 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D LF	620.0300 CONCRETE MEDIAN SLOPED NOSE SF
0010	53+06	-	53+25	STH 42 & 44TH ST	20	20	-
0010	65+75	-	65+96	STH 42 & EGGERS DR	24	24	-
0010	65+70	-	66+04	STH 42 & SCHOOL ENTRANCE	33	33	-
0010	78+56	-	78+95	STH 42 & CTH VV	42	42	-
0010	78+95	-	79+05	STH 42 & VICEORY RD	13	13	-
0010	79+57	-	79+67	VICEORY RD MEDIAN ISLAND - RT	10	-	160
0010	290+68	-	290+75	STH 42 & CTH V	7	7	-
0010	290+49	-	290+75	STH 42 & CTH V	25	25	-
0010	291+09	-	291+20	CTH V MEDIAN ISLAND - LT	10	-	160
0010	291+44	-	291+56	CTH V MEDIAN ISLANDS - RT	10	-	160
0010	450+88	-	451+08	STH 42 & E TAPAWINGO RD	20	20	-
0010	450+87	-	450+99	STH 42 & E TAPAWINGO RD	11	11	-
				TOTAL 0010	225	195	480

GUARDRAIL

CATEGORY	STATION	TO	STATION	LOCATION	204.0165 REMOVING GUARDRAIL LF	614.2330 MGS GUARDRAIL 3K LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH	SPV.0090.02 SPECIAL (02. MGS GUARDRAIL 3L MODIFIED) LF
0010	177+29	-	181+58	STH 42 RT	429	-	-	-
0010	178+17	-	181+69	STH 42 LT	352	-	-	-
0010	340+93	-	343+87	STH 42 LT	254	75	2	112.5
0010	341+09	-	343+52	STH 42 RT	242	25	2	112.5
0010	450+99	-	453+53	STH 42 RT	254	-	-	-
0010	451+09	-	454+12	STH 42 LT	304	-	-	-
0010	566+49	-	570+31	STH 42 RT	379	162.5	2	112.5
0010	568+06	-	570+87	STH 42 LT	279	100	2	100
				TOTAL 0010	2,493	362.5	8	437.5

AGGREGATE FOR SHOULDERS AND DRIVEWAYS

CATEGORY	STATION	TO	STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	* 624.0100 WATER MGAL
0010	20+53	-	120+00	STH 42 -SHOULDERS	387	4
0010	120+00	-	220+00	STH 42 -SHOULDERS	389	4
0010	220+00	-	320+00	STH 42 -SHOULDERS	389	4
0010	320+00	-	420+00	STH 42 -SHOULDERS	389	4
0010	420+00	-	520+00	STH 42 -SHOULDERS	389	4
0010	520+00	-	612+63	STH 42 -SHOULDERS	361	4
0010				DRIVEWAYS	99	2
				TOTAL 0010	2403	26

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

REMOVING MASONRY

CATEGORY	STATION	LOCATION	204.0185 REMOVING MASONRY CY	REMARKS
0010	491+35	STH 42 LT	2	POURED CONCRETE ENDWALL
0010	491+35	STH 42 RT	2	POURED CONCRETE ENDWALL
0010	496+43	STH 42 LT	2	POURED CONCRETE ENDWALL
0010	496+43	STH 42 RT	2	POURED CONCRETE ENDWALL
0010	530+38	STH 42 LT	2	POURED CONCRETE ENDWALL
0010	530+30	STH 42 RT	6	POURED CONCRETE ENDWALL & POURED CONCRETE CHANNEL
0010	607+32	STH 42 LT	3	POURED CONCRETE ENDWALL
		TOTAL 0010	19	

REMOVING STRUCTURES

CATEGORY	STATION	LOCATION	203.0220.01 REMOVING STRUCTURE (C-36-0007) EACH	203.0220.02 REMOVING STRUCTURE (C-36-0008) EACH	203.0220.03 REMOVING STRUCTURE (C-36-0010) EACH
0010	451+26	STH 42	1	-	-
0010	472+23	STH 42	-	1	-
0010	543+17	STH 42	-	-	1
		TOTAL 0010	1	1	1

REMOVING CULVERTS & MARKERS

CATEGORY	STATION	LOCATION	203.0100 REMOVING SMALL PIPE CULVERTS EACH	204.0180 REMOVING DELINEATORS AND MARKERS EACH	REMARKS
0010	26+21	STH 42	1	2	36" CMCP
0010	52+83	STH 42	1	2	48" CMCP
0010	52+94	STH 42	1	-	48" CMCP
0010	65+98	STH 42	1	2	36" CMCP
0010	66+06	STH 42	1	-	36" CMCP
0010	78+78	STH 42	1	2	42"X54" CMCP
0010	98+32	STH 42	1	2	30" CMCP
0010	98+39	STH 42	1	-	30" CMCP
0010	111+32	STH 42	1	2	36" CMCP
0010	111+37	STH 42	1	-	36" CMCP
0010	111+42	STH 42	1	-	36" CMCP
0010	177+96	STH 42 LT	1	-	18" CMCP
0010	220+98	STH 42	1	2	24" CMCP
0010	221+05	STH 42	1	-	24" CMCP
0010	236+65	STH 42	1	2	18" CMCP
0010	252+85	STH 42	1	2	36" CMCP
0010	252+93	STH 42	1	-	36" CMCP
0010	253+01	STH 42	1	-	36" CMCP
0010	290+39	STH 42	1	2	30" CMCP
0010	313+90	STH 42	1	2	30" CMCP
0010	313+94	STH 42	1	-	30" CMCP
0010	332+78	STH 42	1	2	24" CMCP
0010	340+73	STH 42 LT	1	-	18" CMCP
0010	340+89	STH 42 RT	1	-	18" CMCP
0010	385+90	STH 42	1	2	48" CMCP
0010	393+14	STH 42	1	2	24" CMCP
0010	414+95	STH 42	1	2	24" CMCP
0010	433+58	STH 42	1	2	24" CMCP
0010	433+62	STH 42	1	-	24" CMCP
0010	442+91	STH 42	1	2	48" RCCP
0010	490+23	JOHANEK RD	1	2	36" CMCP
0010	491+32	STH 42	1	2	48" RCCP
0010	491+38	STH 42	1	-	48" RCCP
0010	496+40	STH 42	1	2	36" RCCP
0010	496+45	STH 42	1	-	36" RCCP
0010	503+43	STH 42	1	2	24" CMCP
0010	504+43	STH 42	1	2	36" RCCP
0010	504+48	STH 42	1	-	36" RCCP
0010	507+79	STH 42	1	2	30" CMCP
0010	512+56	STH 42	1	2	36" RCCP
0010	512+62	STH 42	1	-	36" RCCP
0010	524+64	STH 42	1	2	36" RCCP
0010	524+69	STH 42	1	-	36" RCCP
0010	530+00	LEHRMAN RD	1	2	18" CMCP
0010	530+32	STH 42	1	2	36" RCCP
0010	530+37	STH 42	1	-	36" RCCP
0010	538+10	STH 42	1	2	24" CMCP
0010	560+81	STH 42	1	2	24" CMCP
0010	566+30	STH 42	1	2	30" CMCP
0010	576+80	STH 42	1	2	24" CMCP
0010	607+27	STH 42	1	2	36" RCCP
0010	607+32	STH 42	1	-	36" RCCP
		TOTAL 0010	52	64	

3

EARTHWORK

CATEGORY	STA		STA	LOCATION	* 205.0100 EXCAVATION COMMON CY	UNEXPANDED FILL	EXPANDED FILL (1)	MASS ORDINATE +/- (2)	208.0100 BORROW CY
0010	177+50	-	180+75	LT	192	536	713	-521	521
0010	177+25	-	181+75	RT	192	584	777	-585	585
0010	340+00	-	344+00	LT	38	220	293	-255	255
0010	340+00	-	344+00	RT	33	68	91	-58	58
0010	451+09	-	454+00	LT	109	235	313	-204	204
0010	451+00	-	454+00	RT	52	148	197	-145	145
0010	541+75	-	544+75	LT	86	474	631	-545	545
0010	542+25	-	544+75	RT	11	280	373	-362	362
0010	565+50	-	571+75	LT	25	132	176	-151	151
0010	565+50	-	571+75	RT	4	175	233	-229	229
				TOTAL 0010	742	2852	3797	-3055	3055

NOTES:
1) EXPANDED FILL FACTOR = 1.33
2) THE MASS ORDINATE + OR - QT CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL
* ADDITIONAL QUANTITIES LISTED ELSEWHERE

ASPHALTIC CENTERLINE RUMBLE STRIPS

CATEGORY	STATION	TO	STATION	LOCATION	465.0475 ASPHALT CENTERLINE RUMBLE STRIPS 2-LANE RURAL LF
0010	81+43	-	103+79	STH 42	2240
0010	107+79	-	130+24	STH 42	2250
0010	134+24	-	183+14	STH 42	4890
0010	187+14	-	209+48	STH 42	2240
0010	213+48	-	235+79	STH 42	2240
0010	239+79	-	262+00	STH 42	2230
0010	266+00	-	266+89	STH 42	90
0010	270+89	-	289+35	STH 42	1850
0010	293+35	-	342+30	STH 42	4900
0010	346+30	-	395+38	STH 42	4910
0010	399+38	-	448+33	STH 42	4900
0010	452+33	-	488+24	STH 42	3600
0010	492+24	-	514+79	STH 42	2260
0010	518+79	-	547+16	STH 42	2840
0010	551+16	-	556+62	STH 42	550
0010	560+62	-	604+19	STH 42	4360
0010	608+19	-	612+62	STH 42	450
				TOTAL 0010	46800

CLEARING & GRUBBING

CATEGORY	STATION	TO	STATION	LOCATION	201.0110 CLEARING SY	201.0210 GRUBBING SY
0010	178+10	-	179+40	STH 42 LT	260	260
				TOTAL 0010	260	260

ASPHALTIC ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	204.0110 REMOVING ASPHALTIC SURFACE SY	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY	327.1000.S CIR ASPHALTIC BASE LAYER SY	* 455.0605 TACK COAT GAL	455.0770.S ASPHALT STABILIZING AGENT TON	460.5224 HMA PAVEMENT 4 LT 58-28 S TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON
0010	20+53	-	120+00	STH 42 - MAINLINE	-	8	35600	37580	1871	169	5612	-
0010	120+00	-	220+00	STH 42 - MAINLINE	-	-	33800	37780	1889	170	5667	-
0010	220+00	-	320+00	STH 42 - MAINLINE	-	-	33500	37780	1890	170	5670	-
0010	320+00	-	420+00	STH 42 - MAINLINE	-	-	33500	37780	1898	170	5694	-
0010	420+00	-	520+00	STH 42 - MAINLINE	-	-	33400	37780	1886	170	5657	-
0010	520+00	-	612+63	STH 42 - MAINLINE	-	7	31200	35000	1750	157	5249	-
0010				44TH STREET	-	11	800	-	91	-	113	-
0010				PASSING LANE - LT	-	-	800	-	121	-	151	-
0010				EGGERS DR	-	11	2600	-	126	-	158	-
0010				SCHOOL ENTRANCE	-	6	1100	-	310	-	388	-
0010				CTH VV	-	11	1000	-	145	-	181	-
0010				VICEROY RD	-	8	1300	-	112	-	140	-
0010				PLEASANT VIEW LN	-	6	300	-	31	-	38	-
0010				E HILLCREST RD - RT	-	6	600	-	55	-	68	-
0010				E HILLCREST RD LT	-	6	600	-	61	-	77	-
0010				RAWLEY RD	-	6	500	-	55	-	69	-
0010				GREEENFIELD LN	-	5	300	-	29	-	36	-
0010				ELMWOOD RD - RT	-	7	500	-	47	-	58	-
0010				ELMWOOD RD - LT	-	7	500	-	46	-	57	-
0010				LILAC DR	-	7	500	-	52	-	65	-
0010				CTH V - RT	-	9	1200	-	125	-	156	-
0010				CTH V - LT	-	9	1100	-	116	-	145	-
0010				IRISH RD - RT	-	7	500	-	36	-	45	-
0010				IRISH RD - LT	-	6	500	-	35	-	43	-
0010				NUCLEAR RD - RT	-	7	900	-	90	-	113	-
0010				NUCLEAR RD - LT	-	6	500	-	47	-	58	-
0010				E TAPAWINGO RD - RT	-	5	1000	-	101	-	126	-
0010				E TAPAWINGO RD - LT	-	5	700	-	65	-	81	-
0010				JOHANKE RD	-	6	300	-	35	-	43	-
0010				TWO CREEKS RD - RT	-	7	600	-	54	-	68	-
0010				TWO CREEKS RD - LT	-	7	700	-	66	-	83	-
0010				LEHRMAN RD	-	5	300	-	29	-	36	-
0010				NERO RD	-	6	400	-	34	-	42	-
0010				ZANDER RD - RT	-	6	400	-	40	-	49	-
0010				ZANDER RD - LT	-	6	400	-	37	-	46	-
0010				LAKESHORE RD	-	6	500	-	49	-	61	-
0010				MEDIAN ISLANDS AT CTH V & VV	60	-	-	-	-	-	-	30
0010				DRIVEWAYS		189	619	-	44	-	-	70
				TOTAL 0010	60	404	223019	223700	13468	1006	36343	100

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

SHAPING SHOULDERS

CATEGORY	STATION	TO	STATION	LOCATION	305.0500 SHAPING SHOULDERS STA	305.0504.S HAULING EXCESS SHOULDER MATERIAL CY
0010	80+05	-	612+63	STH 42 RT	533	658
0010	80+05	-	612+63	STH 42 LT	533	658
				TOTAL 0010	1,066	1,316

ASPHALTIC FLUMES

CATEGORY	STATION	LOCATION	465.0315 ASPHALTIC FLUMES SY
0010	131+68	STH 42 & E HILLCREST RD	7
0010	185+32	STH 42 & RAWLEY RD	7
0010	397+21	STH 42 & NUCLEAR RD	7
0010	450+25	STH 42 & E TAPAWINGO RD	5
0010	450+65	STH 42 & E TAPAWINGO RD	6
0010	451+14	STH 42 & E TAPAWINGO RD	6
		TOTAL 0010	38

CULVERT ENDWALLS

CATEGORY	STATION	LOCATION	504.0900 CONCRETE MASONRY ENDWALLS CY	520.1018 AEW FOR CP 18-INCH EACH	520.1024 AEW FOR CP 24-INCH EACH	520.1036 AEW FOR CP 36-INCH EACH	522.1024 AEW FOR CP REINFORCED CONCRETE 24-INCH EACH	522.1030 AEW FOR CP REINFORCED CONCRETE 30-INCH EACH	522.1048 AEW FOR CP REINFORCED CONCRETE 48-INCH EACH	522.2619 AEW FOR CP REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 19X30-INCH EACH	522.2638 AEW FOR CP REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 38X60-INCH EACH	522.2663 AEW FOR CP REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 63X98-INCH EACH	522.2668 AEW FOR CP REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 68X106-INCH EACH	633.5200 MARKERS CULVERT END EACH	REMARKS
0010	26+21	STH 42	-	-	-	2	-	-	-	-	-	-	-	2	A-1
0010	52+89	STH 42	4.4	-	-	-	-	-	-	-	-	-	-	2	B-1 & B-2
0010	66+03	STH 42	3.6	-	-	-	-	-	-	-	-	-	-	2	C-1 & C-2
0010	78+75	STH 42	4.2	-	-	-	-	-	-	-	-	-	-	2	D-1 & D-2
0010	98+36	STH 42	3.3	-	-	-	-	-	-	-	-	-	-	2	E-1 & E-2
0010	111+37	STH 42	4.6	-	-	-	-	-	-	-	-	-	-	2	F-1, F-2, & F-3
0010	178+03	STH 42	-	2	-	-	-	-	-	-	-	-	-	-	DRIVEWAY CULVERT
0010	221+01	STH 42	3.1	-	-	-	-	-	-	-	-	-	-	2	G-1 & G-2
0010	236+65	STH 42	-	-	-	-	-	-	-	2	-	-	-	2	H-1
0010	252+95	STH 42	4.6	-	-	-	-	-	-	-	-	-	-	2	I-1, I-2, & I-3
0010	290+38	STH 42	-	-	-	-	-	2	-	-	-	-	-	2	J-1
0010	313+92	STH 42	3.3	-	-	-	-	-	-	-	-	-	-	2	K-1 & K-2
0010	332+77	STH 42	-	-	-	-	-	-	-	2	-	-	-	2	L-1
0010	340+87	STH 42	-	2	-	-	-	-	-	-	-	-	-	-	DRIVEWAY CULVERT
0010	341+04	STH 42	-	2	-	-	-	-	-	-	-	-	-	-	DRIVEWAY CULVERT
0010	385+90	STH 42	-	-	-	-	-	-	-	-	2	-	-	2	M-1
0010	393+15	STH 42	-	-	2	-	-	-	-	-	-	-	-	2	N-1
0010	414+94	STH 42	-	-	2	-	-	-	-	-	-	-	-	2	O-1
0010	433+60	STH 42	2.8	-	-	-	-	-	-	-	-	-	-	2	P-1 & P-2
0010	442+90	STH 42	-	-	-	-	-	-	2	-	-	-	-	2	Q-1
0010	451+31	STH 42	-	-	-	-	-	-	-	-	-	-	2	2	R-1
0010	472+28	STH 42	-	-	-	-	-	-	-	-	-	2	-	2	S-1
0010	491+34	STH 42	4.4	-	-	-	-	-	-	-	-	-	-	2	T-1 & T-2
0010	496+41	STH 42	3.6	-	-	-	-	-	-	-	-	-	-	2	U-1 & U-2
0010	503+42	STH 42	-	-	2	-	-	-	-	-	-	-	-	2	V-1
0010	504+45	STH 42	3.7	-	-	-	-	-	-	-	-	-	-	2	W-1 & W-2
0010	507+79	STH 42	-	-	-	-	-	2	-	-	-	-	-	2	X-1
0010	512+60	STH 42	3.6	-	-	-	-	-	-	-	-	-	-	2	Y-1 & Y-2
0010	524+66	STH 42	3.6	-	-	-	-	-	-	-	-	-	-	2	Z-1 & Z-2
0010	530+06	STH 42	-	-	-	-	-	2	-	-	-	-	-	2	AA-1
0010	530+30	STH 42	3.6	-	-	-	-	-	-	-	-	-	-	2	BB-1 & BB-2
0010	538+09	STH 42	-	-	-	-	2	-	-	-	-	-	-	2	CC-1
0010	543+22	STH 42	-	-	-	-	-	-	-	-	-	-	2	2	DD-1
0010	560+82	STH 42	-	-	2	-	-	-	-	-	-	-	-	2	EE-1
0010	566+30	STH 42	-	-	-	-	-	2	-	-	-	-	-	2	FF-1
0010	567+50	STH 42	-	1	-	-	-	-	-	-	-	-	-	-	DRIVEWAY CULVERT
0010	576+80	STH 42	-	-	-	-	-	2	-	-	-	-	-	2	GG-1
0010	607+29	STH 42	3.6	-	-	-	-	-	-	-	-	-	-	2	HH-1 & HH-2
		TOTAL 0010	60	7	8	2	2	10	2	4	2	2	4	68	

CLEANING CULVERT PIPES

CATEGORY	STATION	LOCATION	520.8700 CLEANING CULVERT PIPES EACH
0010	559+39	STH 42	1
		TOTAL 0010	1

MOBILIZATION EROSION CONTROL

CATEGORY	LOCATION	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
0010	STH 42	22	12
	TOTAL 0010	22	12

CULVERT PIPES

CATEGORY	STATION	LOCATION	520.3418 CP CLASS III-A NON-METAL 18-INCH LF	520.3424 CP CLASS III-A NON-METAL 24-INCH LF	520.3436 CP CLASS III-A NON-METAL 36-INCH LF	520.8000 CONCRETE COLLARS FOR PIPE EACH	522.0148 CP REINFORCED CONCRETE CLASS III 48-INCH LF	522.0424 CP REINFORCED CONCRETE CLASS IV 24-INCH LF	522.0430 CP REINFORCED CONCRETE CLASS IV 30-INCH LF	522.0436 CP REINFORCED CONCRETE CLASS IV 36-INCH LF	522.0448 CP REINFORCED CONCRETE CLASS IV 48-INCH LF	522.2363 CP REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 63X98-INCH LF	522.2368 CP REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 68X106-INCH LF	522.2419 CP REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 19X30-INCH LF	522.2424 CP REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 24X38-INCH LF	522.2429 CP REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 29X45-INCH LF	522.2434 CP REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 34X53-INCH LF	SPV.0090.01 SPECIAL (01. CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 38X60-INCH) LF	REMARKS
0010	26+21	STH 42	-	-	82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A-1
0010	52+85	STH 42	-	-	-	-	-	-	-	-	74	-	-	-	-	-	-	-	-	B-1
0010	52+92	STH 42	-	-	-	-	-	-	-	-	74	-	-	-	-	-	-	-	-	B-2
0010	66+00	STH 42	-	-	-	-	-	-	-	104	-	-	-	-	-	-	-	-	-	C-1
0010	66+06	STH 42	-	-	-	-	-	-	-	104	-	-	-	-	-	-	-	-	-	C-2
0010	78+72	STH 42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	88	-	-	D-1
0010	78+79	STH 42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	88	-	-	D-2
0010	98+33	STH 42	-	-	-	-	-	-	-	-	-	-	-	-	60	-	-	-	-	E-1
0010	98+38	STH 42	-	-	-	-	-	-	-	-	-	-	-	-	60	-	-	-	-	E-2
0010	111+31	STH 42	-	-	-	-	-	-	-	-	-	-	-	-	-	64	-	-	-	F-1
0010	111+37	STH 42	-	-	-	-	-	-	-	-	-	-	-	-	-	64	-	-	-	F-2
0010	111+44	STH 42	-	-	-	-	-	-	-	-	-	-	-	-	-	64	-	-	-	F-3
0010	178+03	STH 42	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	DRIVEWAY CULVERT
0010	220+99	STH 42	-	-	-	-	-	62	-	-	-	-	-	-	-	-	-	-	-	G-1
0010	221+04	STH 42	-	-	-	-	-	62	-	-	-	-	-	-	-	-	-	-	-	G-2
0010	236+65	STH 42	-	-	-	-	-	-	-	-	-	-	-	64	-	-	-	-	-	H-1
0010	252+89	STH 42	-	-	-	-	-	-	-	-	-	-	-	-	-	60	-	-	-	I-1
0010	252+95	STH 42	-	-	-	-	-	-	-	-	-	-	-	-	-	60	-	-	-	I-2
0010	253+02	STH 42	-	-	-	-	-	-	-	-	-	-	-	-	-	60	-	-	-	I-3
0010	290+38	STH 42	-	-	-	-	-	-	70	-	-	-	-	-	-	-	-	-	-	J-1
0010	313+90	STH 42	-	-	-	-	-	-	-	-	-	-	-	-	60	-	-	-	-	K-1
0010	313+95	STH 42	-	-	-	-	-	-	-	-	-	-	-	-	60	-	-	-	-	K-2
0010	332+77	STH 42	-	-	-	-	-	-	-	-	-	-	-	56	-	-	-	-	-	L-1
0010	340+87	STH 42	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	DRIVEWAY CULVERT
0010	341+04	STH 42	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	DRIVEWAY CULVERT
0010	385+90	STH 42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	58	M-1
0010	393+15	STH 42	-	58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N-1
0010	414+94	STH 42	-	56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O-1
0010	433+58	STH 42	-	-	-	-	-	62	-	-	-	-	-	-	-	-	-	-	-	P-1
0010	433+62	STH 42	-	-	-	-	-	62	-	-	-	-	-	-	-	-	-	-	-	P-2
0010	442+90	STH 42	-	-	-	-	56	-	-	-	-	-	-	-	-	-	-	-	-	Q-1
0010	451+31	STH 42	-	-	-	-	-	-	-	-	-	-	86	-	-	-	-	-	-	R-1
0010	472+28	STH 42	-	-	-	-	-	-	-	-	-	66	-	-	-	-	-	-	-	S-1
0010	491+31	STH 42	-	-	-	-	-	-	-	-	68	-	-	-	-	-	-	-	-	T-1
0010	491+38	STH 42	-	-	-	-	-	-	-	-	68	-	-	-	-	-	-	-	-	T-2
0010	496+38	STH 42	-	-	66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U-1
0010	496+45	STH 42	-	-	66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	U-2
0010	503+42	STH 42	-	62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	V-1
0010	504+42	STH 42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	64	-	-	W-1
0010	504+48	STH 42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	64	-	-	W-2
0010	507+79	STH 42	-	-	-	-	-	-	60	-	-	-	-	-	-	-	-	-	-	X-1
0010	512+57	STH 42	-	-	-	-	-	-	-	66	-	-	-	-	-	-	-	-	-	Y-1
0010	512+63	STH 42	-	-	-	-	-	-	-	66	-	-	-	-	-	-	-	-	-	Y-2
0010	524+63	STH 42	-	-	74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Z-1
0010	524+69	STH 42	-	-	74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Z-2
0010	530+06	STH 42	-	-	-	-	-	-	46	-	-	-	-	-	-	-	-	-	-	AA-1
0010	530+27	STH 42	-	-	88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	BB-1
0010	530+33	STH 42	-	-	88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	BB-2
0010	538+09	STH 42	-	-	-	-	-	60	-	-	-	-	-	-	-	-	-	-	-	CC-1
0010	543+22	STH 42	-	-	-	-	-	-	-	-	-	-	114	-	-	-	-	-	-	DD-1
0010	560+82	STH 42	-	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EE-1
0010	566+30	STH 42	-	-	-	-	-	-	62	-	-	-	-	-	-	-	-	-	-	FF-1
0010	567+69	STH 42	20	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	DRIVEWAY CULVERT
0010	607+26	STH 42	-	-	-	-	-	-	-	64	-	-	-	-	-	-	-	-	-	HH-1
0010	607+32	STH 42	-	-	-	-	-	-	-	64	-	-	-	-	-	-	-	-	-	HH-2
		TOTAL 0010	156	246	538	1	56	308	238	468	284	66	200	120	240	500	176	58		

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EROSION CONTROL

CATEGORY	STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.7015 INLET PROTECTION TYPE C EACH	628.7555 CULVERT PIPE CHECKS EACH
0010	26+21	STH 42	141	282	-	5
0010	52+85	STH 42	177	354	-	12
0010	66+00	STH 42	163	326	2	10
0010	78+75	STH 42	165	330	-	16
0010	98+35	STH 42	187	374	-	12
0010	111+37	STH 42	210	420	-	18
0010	131+68	STH 42	-	-	1	-
0010	179+00	STH 42	863	1726	-	3
0010	185+35	STH 42	-	-	-	-
0010	221+01	STH 42	174	348	-	6
0010	236+65	STH 42	202	404	-	4
0010	252+95	STH 42	207	414	-	18
0010	290+38	STH 42	172	344	-	4
0010	313+92	STH 42	184	368	-	12
0010	332+77	STH 42	154	308	-	4
0010	342+00	STH 42	468	936	-	6
0010	385+90	STH 42	203	406	-	8
0010	393+15	STH 42	82	164	-	3
0010	397+19	STH 42	-	-	-	-
0010	414+94	STH 42	179	358	-	3
0010	433+60	STH 42	170	340	-	6
0010	442+90	STH 42	78	156	-	6
0010	451+31	STH 42	210	420	-	16
0010	472+28	STH 42	180	360	-	14
0010	491+34	STH 42	200	400	-	12
0010	496+41	STH 42	105	210	-	10
0010	503+42	STH 42	85	170	-	3
0010	504+45	STH 42	202	404	-	12
0010	507+79	STH 42	192	384	-	4
0010	512+60	STH 42	198	396	-	10
0010	517+00	STH 42	-	-	-	-
0010	524+65	STH 42	108	216	-	10
0010	530+06	STH 42	76	152	-	4
0010	530+30	STH 42	169	338	-	10
0010	538+09	STH 42	178	356	-	3
0010	543+22	STH 42	627	1254	-	18
0010	560+82	STH 42	113	226	-	3
0010	566+30	STH 42	305	610	-	4
0010	568+50	STH 42	975	1950	-	-
0010	576+80	STH 42	240	480	-	4
0010	607+29	STH 42	245	490	-	10
0010		UNDISTRIBUTED	2147	4294	-	76
		TOTAL 0010	10,734	21,468	3	379

RESTORATION

CATEGORY	STATION	LOCATION	625.0500 SALVAGED TOPSOIL SY	628.2004 EROSION MAT CLASS I TYPE B SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB	630.0500 SEED WATER MGAL
0010	26+21	STH 42	91	91	0.1	3	3
0010	52+85	STH 42	92	92	0.1	3	3
0010	66+00	STH 42	166	166	0.1	5	4
0010	78+75	STH 42	144	144	0.1	4	4
0010	98+35	STH 42	128	128	0.1	4	3
0010	111+37	STH 42	167	167	0.1	5	4
0010	131+68	STH 42	7	7	0.1	1	1
0010	179+00	STH 42	2863	2863	1.7	78	65
0010	185+35	STH 42	9	9	0.1	1	1
0010	221+01	STH 42	119	119	0.1	4	3
0010	236+65	STH 42	173	173	0.1	5	4
0010	252+95	STH 42	149	149	0.1	5	4
0010	290+38	STH 42	156	156	0.1	5	4
0010	313+92	STH 42	130	130	0.1	4	3
0010	332+77	STH 42	117	117	0.1	4	3
0010	342+00	STH 42	1275	1275	0.8	35	29
0010	385+90	STH 42	175	175	0.1	5	4
0010	393+15	STH 42	38	38	0.1	2	1
0010	397+19	STH 42	6	6	0.1	1	1
0010	414+94	STH 42	136	136	0.1	4	4
0010	433+60	STH 42	125	125	0.1	4	3
0010	442+90	STH 42	41	41	0.1	2	1
0010	451+31	STH 42	1731	1731	1.0	47	39
0010	472+28	STH 42	115	115	0.1	4	3
0010	491+34	STH 42	183	183	0.2	5	5
0010	496+41	STH 42	51	51	0.1	2	2
0010	503+42	STH 42	40	40	0.1	2	1
0010	504+45	STH 42	151	151	0.1	5	4
0010	507+79	STH 42	158	158	0.1	5	4
0010	512+60	STH 42	160	160	0.1	5	4
0010	517+00	STH 42	9	9	0.1	1	1
0010	524+65	STH 42	79	79	0.1	3	2
0010	530+06	STH 42	64	64	0.1	2	2
0010	530+30	STH 42	165	165	0.1	5	4
0010	538+09	STH 42	156	156	0.1	5	4
0010	543+22	STH 42	1843	1843	1.1	50	42
0010	560+82	STH 42	80	80	0.1	3	2
0010	566+30	STH 42	341	341	0.2	10	8
0010	568+50	STH 42	572	572	0.4	16	13
0010	576+80	STH 42	202	202	0.2	6	5
0010	607+29	STH 42	179	179	0.2	5	5
0010		UNDISTRIBUTED	3147	3147	2.3	92	76
		TOTAL 0010	15,733	15,733	11.3	457	378

RIPRAP AND GEOTEXTILE

CATEGORY	STATION	LOCATION	606.0200 RIPRAP MEDIUM CY	606.0300 RIPRAP HEAVY CY	645.0120 GEOTEXTILE TYPE HR SY
0010	26+21	STH 42	5	-	16
0010	52+89	STH 42	10	-	29
0010	66+03	STH 42	9	-	25
0010	78+75	STH 42	10	-	30
0010	98+36	STH 42	9	-	26
0010	111+37	STH 42	13	-	37
0010	131+68	STH 42	2	-	9
0010	179+00	STH 42	40	-	129
0010	185+32	STH 42	2	-	9
0010	221+01	STH 42	7	-	22
0010	236+65	STH 42	4	-	12
0010	252+95	STH 42	13	-	37
0010	290+38	STH 42	5	-	15
0010	313+92	STH 42	8	-	23
0010	385+90	STH 42	5	-	17
0010	397+21	STH 42	2	-	9
0010	433+60	STH 42	5	-	15
0010	442+90	STH 42	3	-	10
0010	450+25	STH 42	2	-	9
0010	450+65	STH 42	2	-	9
0010	451+14	STH 42	-	31	102
0010	451+31	STH 42	-	7	22
0010	472+28	STH 42	5	-	16
0010	491+34	STH 42	4	-	12
0010	496+41	STH 42	4	-	14
0010	503+42	STH 42	4	-	13
0010	504+45	STH 42	10	-	28
0010	512+60	STH 42	6	-	18
0010	524+66	STH 42	8	-	24
0010	530+06	STH 42	5	-	17
0010	530+30	STH 42	10	-	28
0010	543+22	STH 42	-	7	22
0010	576+80	STH 42	5	-	16
0010	607+29	STH 42	9	-	25
		TOTAL 0010	226	45	845

PERMANENT SIGN ITEMS

CATEGORY	STATION	OFFSET	LOCATION	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	638.2102 MOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
0010	78+64	35' RT	STH 42	1	1	1	COUNTY VV / RIGHT ARROW
0010	566+27	29' LT	STH 42	1	1	1	ROAD CURVES LEFT ARROW
			TOTAL 0010	2	2	2	

TEMPORARY MARKING LINE

CATEGORY	STATION	TO	STATION	LOCATION	643.3105 TEMPORARY MARKING LINE PAINT 4-INCH 4' SKIPS YELLOW LF	643.3120 TEMPORARY MARKING LINE EPOXY 4-INCH 4' SKIPS YELLOW LF	REMARKS
0010	21+07	-	612+63	STH 42 C/L	4,733	-	AFTER MILLING
0010	21+07	-	612+63	STH 42 C/L	4,733	-	AFTER CIR
0010	21+07	-	612+63	STH 42 C/L	-	4,733	AFTER SURFACE PRIOR TO RUMBLE INSTALL
				TOTAL 0010	9,466	4,733	

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TRAFFIC CONTROL DETOUR SIGN SUMMARY (NCL TO V)

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 90 DAYS	643.0900 SIGNS DAYS	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A DAYS	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	NO OF CYCLES	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
1	STH 42, S. OF CTH V, PLACE 1000' S. OF CTH V INTERSECTION	W 20-2A	48"X48"	1	90	90						
2		MO 4-8	24"X12"	1	90	90						
	"	M 3-1	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
	"	MO 5-1L	21"X21"	1	90	90						
3	STH 42, S. OF CTH V, COVER EXISTING D2-3 AS SHOWN									1	1	COVER "AHEAD KEWAUNEE"
4	STH 42, AT CTH V, PLACE RIGHT OF EXISTING J13-1 SIGN AT CTH V INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-1	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
	"	MO 6-1	21"X21"	1	90	90						LEFT
4A	CTH V, E. OF STH 42, MODIFY EXISTING J13-2 SIGN AS SHOWN	MO 6-1	21"X21"	1	90	90						LEFT
5	STH 42, AT CTH V, PLACE ON RIGHT SHOULDER IN NE QUADRANT AT CTH V INTERSECTION	R 11-3B	60"X30"	1	90	90	90	180				2 MILES AHEAD
	"	MO 4-9L	30"X24"	1	90	90						
6	STH 42, N. OF CTH V, COVER EXISTING J4-1 SIGN AS SHOWN									1	1	COVER ENTIRE SIGN
7	STH 42, N. OF CTH V, PLACE ON RIGHT SHOULDER, FIELD DETERMINE LOCATION	PCMS		1					7			PLACE IN ADVANCE OF CLOSURE
8	STH 42, N. OF CTH V, COVER EXISTING D1-2 SIGN AS SHOWN									1	1	COVER ENTIRE SIGN
9	CTH V, W. OF STH 42, MODIFY EXISTING J13-2 SIGN AS SHOWN	MO 6-1	21"X21"	1	90	90						RIGHT
10	CTH V, W. OF STH 42, PLACE 250' W. OF STH 42 INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-1	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
11	CTH V, W. OF STH 42, MODIFY EXISTING J1-1 SIGN AS SHOWN	M 4-8A	24"X18"	1	90	90						
12	CTH V, E. OF DIVISION DR, PLACE 150' E. OF DIVISION DR INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-1	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
	"	MO 6-1	21"X21"	1	90	90						AHEAD
13	CTH V, W. OF DIVISION DR, PLACE 150' W. OF DIVISION DR INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-3	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
	"	MO 6-1	21"X21"	1	90	90						AHEAD
14	CTH V, E. OF STH 147, PLACE 500' E. OF STH 147 INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-1	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
	"	MO 5-1R	21"X21"	1	90	90						
15	CTH V, E. OF STH 147, PLACE 250' E. OF STH 147 INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-3	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
16	CTH V, AT STH 147, PLACE RIGHT OF EXISTING J13-2 SIGN AT STH 147 INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-1	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
	"	MO 6-1	21"X21"	1	90	90						RIGHT
17	STH 147, AT CTH V, PLACE RIGHT OF EXISTING J13-1 SIGN AT CTH V INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-3	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
	"	MO 6-1	21"X21"	1	90	90						LEFT
18	STH 147, N. OF CTH V, PLACE 500' N. OF CTH V INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-3	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
	"	MO 5-1L	21"X21"	1	90	90						
	PAGE SUBTOTALS			45		3,960	90	180	7		3	

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TRAFFIC CONTROL DETOUR SIGN SUMMARY (NCL TO V)

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 90 DAYS	643.0900 SIGNS DAYS	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A DAYS	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	NO OF CYCLES	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
19	STH 147, S. OF CTH B, PLACE 500' S. OF CTH B INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-1	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
	"	MO 5-1R	21"X21"	1	90	90						
20	STH 147, AT CTH B, PLACE RIGHT OF EXISTING J13-1 SIGN AT CTH B INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-1	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
	"	MO 5-1R	21"X21"	1	90	90						
21	CTH B, AT STH 147, PLACE RIGHT OF EXISTING J13-1 SIGN AT STH 147 INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-3	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
	"	MO 6-1	21"X21"	1	90	90						LEFT
22	CTH B, N. OF STH 147, PLACE 250' N. OF STH 147 INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-1	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
23	CTH B, N. OF STH 147, PLACE 500' N. OF STH 147 INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-3	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
	"	MO 5-1L	21"X21"	1	90	90						
24	CTH B, S. OF CTH BB, PLACE 500' S. OF CTH BB INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-1	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
	"	MO 5-1R	21"X21"	1	90	90						
25	CTH B, S. OF CTH BB, PLACE 250' S. OF CTH BB INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-3	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
26	CTH B, AT CTH BB, PLACE RIGHT OF EXISTING J13-1 SIGN AT CTH BB INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-1	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
	"	MO 6-1	21"X21"	1	90	90						RIGHT
27	CTH B/BB, AT CTH B, PLACE RIGHT OF EXISTING J13-3 SIGN AT CTH B INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-3	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
	"	MO 6-1	21"X21"	1	90	90						LEFT
28	CTH B/BB, E. OF CTH B, PLACE 250' E. OF CTH B INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-1	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
29	CTH B/BB, E. OF CTH B, PLACE 500' E. OF CTH B INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-3	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
	"	MO 5-1L	21"X21"	1	90	90						
	PAGE SUBTOTALS			41		3,690	0	0	0		0	

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TRAFFIC CONTROL DETOUR SIGN SUMMARY (NCL TO V)

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 90 DAYS	643.0900 SIGNS DAYS	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A DAYS	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	NO OF CYCLES	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
30	CTH BB, W. OF CTH B, PLACE 150' W. OF CTH B INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-1	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
	"	MO 6-1	21"X21"	1	90	90						AHEAD
31	CTH BB, E. OF CTH B, PLACE 150' E. OF CTH B INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-3	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
	"	MO 6-1	21"X21"	1	90	90						AHEAD
32	CTH BB, W. OF CTH B, PLACE 150' W. OF TOWNHALL RD INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-1	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
	"	MO 6-1	21"X21"	1	90	90						AHEAD
33	CTH BB, E. OF CTH B, PLACE 150' E. OF TOWNHALL RD INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-3	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
	"	MO 6-1	21"X21"	1	90	90						AHEAD
34	CTH BB, W. OF STH 42, MODIFY EXISTING J4-2 SIGN AS SHOWN	M 4-8A	24"X18"	1	90	90						
35	CTH BB, W. OF STH 42, COVER EXISTING D1-2 SIGN AS SHOWN									1	1	COVER "TWO RIVERS RIGHT"
36	CTH BB, W. OF STH 42, PLACE 250' W. OF STH 42 INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-3	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
37	CTH BB, AT STH 42, PLACE RIGHT OF EXISTING R1-1 SIGN AT STH 42 INTERSECTION	M 3-1	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
	"	MO 6-1	21"X21"	1	90	90						LEFT
38	STH 42, S. OF CTH BB, COVER EXISTING J4-1 SIGN AS SHOWN									1	1	COVER ENTIRE SIGN
39	STH 42, S. OF CTH BB, PLACE ON RIGHT SHOULDER, FIELD DETERMINE LOCATION	PCMS		1					7			PLACE IN ADVANCE OF CLOSURE
40	STH 42, AT CTH BB, PLACE ON RIGHT SHOULDER IN SW QUADRANT OF INTERSECTION	R 11-3B	60"X30"	1	90	90	90	180				1/2 MILE AHEAD
	"	M 4-9R	30"X24"	1	90	90						
41	STH 42, AT CTH BB, PLACE RIGHT OF EXISTING J13-1 SIGN AT CTH BB INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-3	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
	"	MO 6-1	21"X21"	1	90	90						AHEAD
42	STH 42, N. OF CTH BB, PLACE 500' N. OF CTH BB INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-3	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
	"	MO 5-1R	21"X21"	1	90	90						
43	STH 42, N. OF CTH BB, PLACE 1000' N. OF CTH BB INTERSECTION	W 20-2A	48"X48"	1	90	90						
	PAGE SUBTOTALS			35		3,060	90	180	7		2	
	NCL TO V DETOUR TOTALS			**121**		**10,710**	**180**	**360**	**14**		**5**	

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TRAFFIC CONTROL DETOUR SIGN SUMMARY (V TO TWO RIVERS)

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 90 DAYS	643.0900 SIGNS DAYS	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A DAYS	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	NO OF CYCLES	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
1	STH 42, S. OF STH 147, PLACE 1000' S. OF STH 147 INTERSECTION	W 20-2A	48"X48"	1	90	90						
2	STH 42, S. OF STH 147, PLACE 500' S. OF STH 147 INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-1	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
	"	MO 5-1L	21"X21"	1	90	90						
3	STH 42, AT STH 147, MODIFY EXISTING J13-1 SIGN AS SHOWN	MO 4-8	24"X12"	1	90	90						
	"	MO 6-1	21"X21"	1	90	90						LEFT
4	STH 42, AT STH 147, PLACE ON RIGHT SHOULDER IN SE QUANDRANT ON INTERSECTION	R 11-3	60"X30"	1	90	90	90	180				1 1/4 MILES AHEAD
5	STH 42, E. OF STH 147, COVER EXISTING J4-1 SIGN AS SHOWN									1	1	COVER ENTIRE SIGN
6	CTH O, AT STH 42, MODIFY EXISTING J13-1 SIGN AS SHOWN	MO 4-8	24"X12"	1	90	90						
	"	MO 6-1	21"X21"	1	90	90						AHEAD
7	CTH O, E. OF STH 42, PLACE 500' W. OF STH 42 INTERSECTION	M 3-1	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
	"	W 20-2A	48"X48"	1	90	90						
8	STH 42, N. OF CTH O, COVER EXISTING J4-1 SIGN AS SHOWN									1	1	COVER ENTIRE SIGN
9	STH 147, AT STH 42, MODIFY EXISTING J13-1 SIGN AS SHOWN	MO 6-1	21"X21"	1	90	90						RIGHT
10	STH 147, W. OF STH 42, PLACE 250' W. OF STH 42 INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-1	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
11	STH 147, W. OF STH 42, MODIFY EXISTING J1-1 SIGN AS SHOWN	M 4-8A	24"X18"	1	90	90						
12	STH 147, E. OF 22ND ST, PLACE 500' W. OF 22ND ST INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-1	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
	"	MO 5-1R	21"X21"	1	90	90						
13	STH 147, AT 22ND ST, PLACE IN FRONT OF LIGHT POLE AT 22ND ST INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-1	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
	"	MO 6-1	21"X21"	1	90	90						RIGHT
14	STH 147, W. OF 22ND ST, PLACE IN FRONT OF LIGHT POLE W. OF 22ND ST INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-3	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
	"	MO 6-1	21"X21"	1	90	90						LEFT
15	STH 147, W. OF 22ND ST, PLACE 500' W. OF 22ND ST INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-3	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
	"	MO 5-1L	21"X21"	1	90	90						
16	STH 147, S. OF TANNERY RD, PLACE 150' S. OF TANNERY RD INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-1	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
	"	MO 6-1	21"X21"	1	90	90						AHEAD
17	STH 147, N. OF TANNERY RD, PLACE 150' N. OF TANNERY RD INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-3	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
	"	MO 6-1	21"X21"	1	90	90						AHEAD
	PAGE SUBTOTALS			42		3,780	90	180	0		2	

3

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TRAFFIC CONTROL DETOUR SIGN SUMMARY (V TO TWO RIVERS)

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 90 DAYS	643.0900 SIGNS DAYS	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A DAYS	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	NO OF CYCLES	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
18	STH 147, S. OF CTH VV, PLACE 150' S. OF CTH VV INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-1	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
	"	MO 6-1	21"X21"	1	90	90						AHEAD
19	STH 147, N. OF CTH VV, PLACE 150' N. OF CTH VV INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-3	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
	"	MO 6-1	21"X21"	1	90	90						AHEAD
20	STH 42, S. OF CTH VV, PLACE ON RIGHT SHOULDER, FIELD DETERMINE LOCATION	PCMS		1					7			PLACE IN ADVANCE OF CLOSURE
21	STH 147, S. OF CTH V, PLACE 500' S. OF CTH V INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-1	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
	"	MO 5-1R	21"X21"	1	90	90						
22	STH 147, S. OF CTH V, PLACE RIGHT OF EXISTING J4-1 SIGN S. OF CTH V INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-3	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
23	STH 147, AT CTH V, PLACE RIGHT OF EXISTING J13-1 SIGN AT CTH V INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-1	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
	"	MO 6-1	21"X21"	1	90	90						RIGHT
24	CTH V, E. OF STH 147, PLACE 100' E. OF STH 147 INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-3	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
	"	MO 6-1	21"X21"	1	90	90						LEFT
25	CTH V, E. OF STH 147, PLACE 250' E. OF STH 147 INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-1	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
26	CTH V, E. OF STH 147, PLACE 600' E. OF STH 147 INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-3	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
	"	MO 5-1L	21"X21"	1	90	90						
27	CTH V, W. OF DIVISION DR, PLACE 150' W. OF DIVISION DR INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-1	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
	"	MO 6-1	21"X21"	1	90	90						AHEAD
28	CTH V, E. OF DIVISION DR, PLACE 150' E. OF DIVISION DR INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-3	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						
	"	MO 6-1	21"X21"	1	90	90						
29	CTH V, W. OF STH 42, MODIFY EXISTING J1-1 SIGN AS SHOWN	M 4-8A	24"X18"	1	90	90						
	PAGE SUBTOTALS			40		3,510	0	0	7		0	

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TRAFFIC CONTROL DETOUR SIGN SUMMARY (V TO TWO RIVERS)

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 90 DAYS	643.0900 SIGNS DAYS	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A DAYS	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	NO OF CYCLES	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
30	CTH V, W. OF STH 42, PLACE 250' W. OF STH 42 INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-3	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
31	CTH V, AT STH 42, MODIFY EXISTING J13-2 SIGN AS SHOWN	MO 6-1	21"X21"	1	90	90						LEFT
32	STH 42, AT CTH V, PLACE ON RIGHT SHOULDER IN SW QUADRANT OF INTERSECTION	R 11-3B	60"X30"	1	90	90						2 MILES AHEAD
	"	M 4-9R	30"X24"	1	90	90						
33	STH 42, S. OF CTH V, COVER EXISTING D1-2 SIGN AS SHOWN									1	1	COVER ENTIRE SIGN
34	STH 42, S. OF CTH V, PLACE ON RIGHT SHOULDER, FIELD DETERMINE LOCATION	PCMS		1					7			PLACE IN ADVANCE OF CLOSURE
35	STH 42, S. OF CTH V, COVER EXISTING J4-1 SIGN AS SHOWN									1	1	COVER ENTIRE SIGN
36	CTH V, E. OF STH 42, MODIFY EXISTING J13-2 SIGN AS SHOWN	MO 6-6	21"X21"	1	90	90						AHEAD-RIGHT
37	STH 42, AT CTH V, PLACE RIGHT OF EXISTING J13-1 SIGN AT CTH V INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-3	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
	"	MO 6-1	21"X21"	1	90	90						RIGHT
38	STH 42, N. OF CTH V, COVER EXISTING D2-3 SIGN AS SHOWN									1	1	COVER "AHEAD TWO RIVERS"
39	STH 42, N. OF CTH V, PLACE 750' N. OF CTH V INTERSECTION	MO 4-8	24"X12"	1	90	90						
	"	M 3-3	24"X12"	1	90	90						
	"	M 1-6	24"X24"	1	90	90						42
	"	MO 5-1R	21"X21"	1	90	90						
40	STH 42, N. OF CTH V, PLACE 1/4 MILE N. OF CTH V INTERSECTION	W 20-2A	48"X48"	1	90	90						
	PAGE SUBTOTALS			17		1,440	0	0	7		3	
	V TO TWO RIVERS DETOUR TOTALS			**99**		**8,730**	**90**	**180**	**14**		**5**	

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TRAFFIC CONTROL

CATEGORY	LOCATION/STAGE	DAYS	643.0300 TRAFFIC CONTROL DRUMS EACH	643.0300 TRAFFIC CONTROL DRUMS DAYS	643.0420 TRAFFIC CONTROL BARRICADES TYPE III EACH	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAYS	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A EACH	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAYS	643.0900 TRAFFIC CONTROL SIGNS EACH	643.0900 TRAFFIC CONTROL SIGNS DAYS	643.1050 TRAFFIC CONTROL SIGNS PCMS EACH	643.1050 TRAFFIC CONTROL SIGNS PCMS DAYS
	SOUTH DETOUR											
0010	START OF PROJECT	90	-	-	2	180	4	360	1	90	-	-
0010	44TH STREET	90	-	-	2	180	4	360	3	270	-	-
0010	EGGERS RD	90	-	-	2	180	4	360	3	270	-	-
0010	HIGH SCHOOL ENTRANCE	90	-	-	2	180	4	360	3	270	-	-
0010	CTH VV	90	-	-	2	180	4	360	3	270	-	-
0010	VICEROY RD	90	-	-	2	180	4	360	3	270	-	-
0010	PLEASANT VIEW LN	90	-	-	2	180	4	360	3	270	-	-
0010	E HILLCREST RD - LT	90	-	-	2	180	4	360	3	270	-	-
0010	E HILLCREST RD - RT	90	-	-	2	180	4	360	3	270	-	-
0010	RAWLEY RD	90	-	-	2	180	4	360	3	270	-	-
0010	GREENFIELD LN	90	-	-	2	180	4	360	3	270	-	-
0010	ELMWOOD RD - LT	90	-	-	2	180	4	360	3	270	-	-
0010	ELMWOOD RD - RT	90	-	-	2	180	4	360	3	270	-	-
0010	GRASS LN - LT	90	-	-	2	180	4	360	3	270	-	-
0010	GRASS LN - RT	90	-	-	2	180	4	360	3	270	-	-
0010	LILAC DR	90	-	-	2	180	4	360	3	270	-	-
0010	CTH V - LT	90	-	-	2	180	4	360	3	270	-	-
0010	CTH V - RT	90	-	-	2	180	4	360	3	270	-	-
	NORTH DETOUR											
0010	CTH V - LT	110	-	-	2	220	4	440	3	330	-	-
0010	CTH V - RT	110	-	-	2	220	4	440	3	330	-	-
0010	IRISH RD - LT	110	-	-	2	220	4	440	3	330	-	-
0010	IRISH RD - RT	110	-	-	2	220	4	440	3	330	-	-
0010	NUCLEAR RD - LT	110	-	-	2	220	4	440	3	330	-	-
0010	NUCLEAR RD - RT	110	-	-	2	220	4	440	3	330	-	-
0010	E TAPAWINGO RD - LT	110	-	-	2	220	4	440	3	330	-	-
0010	E TAPAWINGO RD - RT	110	-	-	2	220	4	440	3	330	-	-
0010	JOHANKE RD	110	-	-	2	220	4	440	3	330	-	-
0010	TWO CREEKS RD - LT	110	-	-	2	220	4	440	3	330	-	-
0010	TWO CREEKS RD - RT	110	-	-	2	220	4	440	3	330	-	-
0010	LEHRMAN RD	110	-	-	2	220	4	440	3	330	-	-
0010	NERO RD	110	-	-	2	220	4	440	3	330	-	-
0010	ZANDER RD - LT	110	-	-	2	220	4	440	3	330	-	-
0010	ZANDER RD - RT	110	-	-	2	220	4	440	3	330	-	-
0010	LAKESHORE RD	110	-	-	2	220	4	440	3	330	-	-
0010	END OF PROJECT	110	-	-	2	220	4	440	1	110	-	-
	FLAGGING											
0010	START OF PROJECT	7	5	35	-	-	-	-	-	-	1	7
0010	END OF PROJECT	7	5	35	-	-	-	-	-	-	1	7
0010	UNDISTRIBUTED	-	-	140		1,396		2,792		2,014	-	-
	TOTAL 0010			210		8376		16752		12084		14

MARKING LINE EPOXY 4-INCH

CATEGORY	STATION	TO	STATION	LOCATION	646.1020 MARKING LINE EPOXY 4-INCH YELLOW LF	646.1040 MARKING LINE GROOVED WET REF EPOXY 4-INCH WHITE LF
0010	20+52	-	53+70	STH 42	830	-
0010	53+70	-	59+98	STH 42	1257	-
0010	59+98	-	64+83	STH 42	1944	-
0010	65+90	-	74+45	STH 42	3422	-
0010	74+45	-	79+37	STH 42	615	-
0010	79+37	-	228+66	STH 42	3733	-
0010	228+66	-	234+00	STH 42	669	-
0010	234+00	-	240+44	STH 42	161	-
0010	240+44	-	245+96	STH 42	691	-
0010	245+96	-	254+21	STH 42	207	-
0010	254+21	-	264+61	STH 42	1300	-
0010	264+61	-	266+35	STH 42	348	-
0010	266+35	-	278+78	STH 42	1554	-
0010	278+78	-	280+15	STH 42	35	-
0010	280+15	-	290+52	STH 42	1297	-
0010	290+52	-	293+48	STH 42	593	-
0010	293+48	-	303+46	STH 42	1248	-
0010	303+46	-	534+59	STH 42	5779	-
0010	534+59	-	544+73	STH 42	1268	-
0010	544+73	-	553+80	STH 42	1815	-
0010	553+80	-	563+35	STH 42	1195	-
0010	563+35	-	574+72	STH 42	285	-
0010	574+72	-	586+29	STH 42	1447	-
0010	586+29	-	588+44	STH 42	430	-
0010	588+44	-	599+08	STH 42	1330	-
0010	599+08	-	612+63	STH 42	339	-
0010	20+53	-	64+70	STH 42	-	8737
0010	65+94	-	78+93	STH 42	-	2566
0010	80+01	-	131+74	STH 42	-	10232
0010	132+74	-	237+34	STH 42	-	20655
0010	238+34	-	290+68	STH 42	-	10297
0010	291+95	-	343+76	STH 42	-	10362
0010	344+81	-	396+84	STH 42	-	10373
0010	397+91	-	449+86	STH 42	-	10341
0010	450+98	-	516+24	STH 42	-	12916
0010	517+36	-	558+52	STH 42	-	7922
0010	558+88	-	612+63	STH 42	-	10539
0010				LAKESHORE RD	87	44
0010				ZANDER RD	118	-
0010				NERO RD	38	-
0010				NUCLEAR RD	164	-
0010				CTH V	254	230
0010				ELMWOOD RD	52	-
0010				E HILLCREST RD	38	-
0010				CTH VV	208	87
0010				VICEROY RD	110	166
0010				EGGERS DR	45	-
				TOTAL 0010	34906	115467

MARKING STOP LINE EPOXY 18-INCH

CATEGORY	LOCATION	646.6120 MARKING STOP LINE EPOXY 18-INCH WHITE LF
0010	44TH STREET - RT	24
0010	CTH VV	12
0010	CTH VV - RT TURN LANE	16
	TOTAL 0010	52

MARKING DIAGONAL EPOXY

CATEGORY	STA	-	STA	LOCATION	646.7020 MARKING DIAGONAL EPOXY 6-INCH WHITE LF
0010	60+00	-	64+83	STH 42	90
0010	65+89	-	74+45	STH 42	250
				TOTAL 0010	340

SALVAGE AND INSTALL RIP RAP

CATEGORY	STATION	LOCATION	SPV.0035.02 SALVAGE AND INSTALL RIP RAP CY
0010	543+32	STH 42 - RT	17
		TOTAL	17

CULVERT REPLACEMENT ITEMS

CATEGORY	STATION	LOCATION	204.0100 REMOVING CONCRETE PAVEMENT SY	* 205.0100 EXCAVATION COMMON CY	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	* 455.0605 TACK COAT GAL	465.0105 ASPHALTIC SURFACE TON	624.0100 WATER MGAL	690.0150 SAWING ASPHALT LF	SPV.0035.01 SPECIAL (01. FOUNDATION BACKFILL) CY	REMARKS
0010	26+21	STH 42	20	-	20	21	10	1	-	-	A-1
0010	52+85	STH 42	90	499	376	426	176	4	106	295	B-1 & B-2
0010	66+00	STH 42	90	623	476	576	237	5	163	369	C-1 & C-2
0010	78+75	STH 42	90	540	438	525	217	5	143	320	D-1 & D-2
0010	98+35	STH 42	90	311	255	238	98	3	60	180	E-1 & E-2
0010	111+37	STH 42	90	333	289	270	112	3	60	197	F-1, F-2, & F-3
0010	221+01	STH 42	90	313	242	227	94	3	60	182	G-1 & G-2
0010	236+65	STH 42	90	320	284	305	127	3	71	183	H-1
0010	252+95	STH 42	90	333	289	270	112	3	60	197	I-1, I-2, & I-3
0010	290+38	STH 42	90	424	292	339	140	3	94	251	J-1
0010	313+92	STH 42	90	302	249	232	96	3	60	173	K-1 & K-2
0010	332+77	STH 42	90	252	200	187	78	2	60	136	L-1
0010	385+90	STH 42	90	333	257	240	100	3	60	197	M-1
0010	393+15	STH 42	20	-	169	14	7	2	-	-	N-1
0010	414+94	STH 42	90	333	235	220	91	3	60	197	O-1
0010	433+60	STH 42	90	308	237	221	92	3	60	178	P-1 & P-2
0010	442+90	STH 42	20	-	26	28	12	1	-	-	Q-1
0010	451+31	STH 42	90	383	349	406	168	4	95	227	R-1
0010	472+28	STH 42	90	-	660	56	24	7	-	-	S-1
0010	491+34	STH 42	90	333	272	260	108	3	60	197	T-1 & T-2
0010	496+41	STH 42	20	-	69	21	10	1	-	-	U-1 & U-2
0010	503+42	STH 42	20	-	228	14	7	3	-	-	V-1
0010	504+45	STH 42	90	333	270	256	106	3	60	197	W-1 & W-2
0010	507+79	STH 42	90	333	239	225	93	3	60	197	X-1
0010	512+60	STH 42	90	333	260	245	101	3	60	197	Y-1 & Y-2
0010	524+65	STH 42	20	-	273	21	10	3	-	-	Z-1 & Z-2
0010	530+06	STH 42	90	254	200	225	93	2	89	150	AA-1
0010	530+30	STH 42	20	-	381	31	14	4	-	-	BB-1 & BB-2
0010	538+09	STH 42	90	333	235	220	91	3	60	197	CC-1
0010	543+22	STH 42	20	-	714	61	26	8	-	-	DD-1
0010	560+82	STH 42	20	-	26	14	7	1	-	-	EE-1
0010	566+30	STH 42	90	344	273	258	107	3	60	204	FF-1
0010	576+80	STH 42	90	333	239	223	93	3	60	197	GG-1
0010	607+29	STH 42	90	333	260	243	101	3	60	197	HH-1 & HH-2
		TOTAL 0010	2430	8536	9282	7118	2958	107	1781	5015	

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

MARKING LINE EPOXY 8-INCH

CATEGORY	STATION	TO	STATION	LOCATION	646.3040 MARKING LINE GROOVED WET REF EPOXY 8-INCH WHITE LF
0010	49+14	-	53+17	STH 42	410
0010	61+26	-	64+72	STH 42	350
0010	62+78	-	64+84	STH 42	210
0010	65+90	-	67+95	STH 42	210
0010	65+90	-	67+92	STH 42	210
0010	77+17	-	79+02	STH 42	190
0010	79+97	-	81+68	STH 42	180
0010	132+82	-	134+03	STH 42	130
0010	287+55	-	290+66	STH 42	320
0010	291+91	-	294+18	STH 42	230
0010	395+18	-	396+73	STH 42	160
0010	397+98	-	399+01	STH 42	110
0010	448+24	-	449+87	STH 42	170
0010	450+95	-	452+16	STH 42	130
0010	515+09	-	516+20	STH 42	120
0010	517+17	-	518+67	STH 42	160
0010				EGGERS DR	50
0010				CTH VV	110
				TOTAL 0010	3450

MARKING WORD EPOXY

CATEGORY	STA	OFFSET	LOCATION	646.5120 MARKING WORD EPOXY WHITE EACH
0010	64+23	6' LT	STH 42 / EGGERS DR	1
0010	66+53	8' LT	STH 42 / EGGERS DR	1
0010	66+53	35' LT	STH 42 / EGGERS DR	1
			TOTAL 0010	3

BIRD DETERRENT SYSTEM

CATEGORY	STATION	LOCATION	999.2000.S.01 INSTALLING AND MAINTAINING BIRD DETERRENT SYSTEM (STATION) (01. 179+30) EACH	999.2000.S.02 INSTALLING AND MAINTAINING BIRD DETERRENT SYSTEM (STATION) (02. 451+26) EACH	999.2000.S.03 INSTALLING AND MAINTAINING BIRD DETERRENT SYSTEM (STATION) (03.472+23) EACH	999.2000.S.04 INSTALLING AND MAINTAINING BIRD DETERRENT SYSTEM (STATION) (04. 543+17) EACH
0010	179+30	STH 42	1	-	-	-
0010	451+26	STH 42	-	1	-	-
0010	472+23	STH 42	-	-	1	
0010	543+17	STH 42	-	-	-	1
		TOTAL 0010	1	1	1	1

3

ASPHALTIC SHOULDER RUMBLE STRIPS

CATEGORY	STATION	TO	STATION	OFFSET	LOCATION	465.0425 ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL LF
0010	81+16	-	87+20	RT	STH 42	604
0010	87+84	-	104+22	RT	STH 42	1638
0010	106+72	-	119+01	RT	STH 42	1229
0010	119+69	-	122+49	RT	STH 42	280
0010	124+35	-	129+20	RT	STH 42	485
0010	134+02	-	135+56	RT	STH 42	154
0010	136+23	-	153+92	RT	STH 42	1769
0010	154+57	-	169+31	RT	STH 42	1474
0010	169+95	-	174+71	RT	STH 42	476
0010	175+33	-	183+47	RT	STH 42	814
0010	186+84	-	194+26	RT	STH 42	742
0010	194+94	-	209+69	RT	STH 42	1475
0010	212+58	-	228+43	RT	STH 42	1585
0010	229+06	-	236+04	RT	STH 42	698
0010	239+54	-	262+50	RT	STH 42	2296
0010	264+97	-	267+15	RT	STH 42	218
0010	270+50	-	285+95	RT	STH 42	1545
0010	293+44	-	295+97	RT	STH 42	253
0010	296+65	-	311+95	RT	STH 42	1530
0010	313+52	-	339+28	RT	STH 42	2576
0010	345+50	-	347+20	RT	STH 42	170
0010	347+82	-	393+95	RT	STH 42	4613
0010	399+28	-	404+01	RT	STH 42	473
0010	405+39	-	407+28	RT	STH 42	189
0010	407+91	-	410+46	RT	STH 42	255
0010	411+10	-	423+82	RT	STH 42	1272
0010	424+46	-	426+74	RT	STH 42	228
0010	427+36	-	446+97	RT	STH 42	1961
0010	451+50	-	478+88	RT	STH 42	2738
0010	480+61	-	514+00	RT	STH 42	3339
0010	518+51	-	531+86	RT	STH 42	1335
0010	533+18	-	536+12	RT	STH 42	294
0010	536+91	-	541+39	RT	STH 42	448
0010	542+04	-	557+30	RT	STH 42	1526
0010	560+41	-	580+21	RT	STH 42	1980
0010	580+94	-	583+38	RT	STH 42	244
0010	584+12	-	604+36	RT	STH 42	2024
0010	607+28	-	612+62	RT	STH 42	534

CONTIUNES ON NEXT TABLE

CATEGORY	STATION	TO	STATION	OFFSET	LOCATION	465.0425 ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL LF
0010	81+00	-	118+80	LT	STH 42	3780
0010	119+46	-	130+56	LT	STH 42	1110
0010	135+28	-	151+88	LT	STH 42	1660
0010	152+52	-	164+75	LT	STH 42	1223
0010	165+43	-	177+64	LT	STH 42	1221
0010	178+29	-	183+88	LT	STH 42	559
0010	184+58	-	185+38	LT	STH 42	80
0010	186+01	-	203+49	LT	STH 42	1748
0010	204+12	-	236+33	LT	STH 42	3221
0010	239+04	-	254+25	LT	STH 42	1521
0010	254+93	-	263+00	LT	STH 42	807
0010	265+58	-	289+42	LT	STH 42	2384
0010	295+11	-	298+66	LT	STH 42	355
0010	299+47	-	306+94	LT	STH 42	747
0010	309+28	-	340+44	LT	STH 42	3116
0010	345+86	-	350+61	LT	STH 42	475
0010	351+33	-	365+53	LT	STH 42	1420
0010	366+16	-	394+86	LT	STH 42	2870
0010	399+49	-	402+99	LT	STH 42	350
0010	403+61	-	431+85	LT	STH 42	2824
0010	432+53	-	444+25	LT	STH 42	1172
0010	444+94	-	448+73	LT	STH 42	379
0010	452+94	-	472+24	LT	STH 42	1930
0010	473+08	-	477+66	LT	STH 42	458
0010	479+33	-	481+42	LT	STH 42	209
0010	482+74	-	489+22	LT	STH 42	648
0010	491+65	-	496+92	LT	STH 42	527
0010	498+80	-	503+43	LT	STH 42	463
0010	504+05	-	514+98	LT	STH 42	1093
0010	519+99	-	529+03	LT	STH 42	904
0010	531+68	-	544+96	LT	STH 42	1328
0010	546+51	-	548+18	LT	STH 42	167
0010	550+91	-	557+21	LT	STH 42	630
0010	560+05	-	582+83	LT	STH 42	2278
0010	582+46	-	612+62	LT	STH 42	3016
					TOTAL 0010	92137

MARKING ARROW EPOXY

CATEGORY	STA	OFFSET	LOCATION	646.5020 MARKING ARROW EPOXY WHITE EACH
0010	63+00	6' LT	STH 42 / EGGERS DR	1
0010	64+62	6' LT	STH 42 / EGGERS DR	1
0010	65+16	88' LT	STH 42 / EGGERS DR	1
0010	65+26	88' LT	STH 42 / EGGERS DR	1
0010	66+12	8' LT	STH 42 / EGGERS DR	1
0010	66+12	35' LT	STH 42 / EGGERS DR	1
0010	67+70	8' LT	STH 42 / EGGERS DR	1
0010	67+70	35' LT	STH 42 / EGGERS DR	1
0010	79+14	82' LT	STH 42 / CTH VV	1
0011	79+27	82' LT	STH 42 / CTH VV	1
			TOTAL 0010	10

CONSTRUCTION STAKING

CATEGORY	STATION	TO	STATION	LOCATION	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH	650.6501.01 CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) (01. C-36-102) EACH	650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE LF	650.9911.01 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) (01. 1470-30-71) EACH	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF
0010	21+07	-	612+63	STH 42	53	1	59,156	1	2,091
				TOTAL 0010	53	1	59,156	1	2,091

1243911
DOC: 1243911

TRANSPORTATION PROJECT PLAT NO: 1470-30-21 - 4.01

A PART OF THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER , SECTION 13, T20N, R24E, AND ALSO PART OF THE FRACTIONAL NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF, SECTION 18, T20N, R25E, ALL IN THE TOWN OF TWO RIVERS, MANITOWOC COUNTY, WISCONSIN.

RELOCATION ORDER STH 42 TWO RIVERS - KEWUANEE 34TH STREET - NCL MANITOWOC COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER 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 NAMED 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 SUBSECTION 84.09 (1) OR (2). WISCONSIN STATUTES.

GN

SCALE, FEET
0 40 80

REGISTERS OFFICE }
MANITOWOC COUNTY, WI }
RECEIVED FOR RECORD
November 10, 2021 @ 3:00 PM
Plat Cabinet D / JKT 91
KRISTI TUESBURG, REGISTER

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER: 1470-30-21-4.01
AMENDMENT NO:

SCHEDULE OF LANDS AND INTERESTS REQUIRED

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

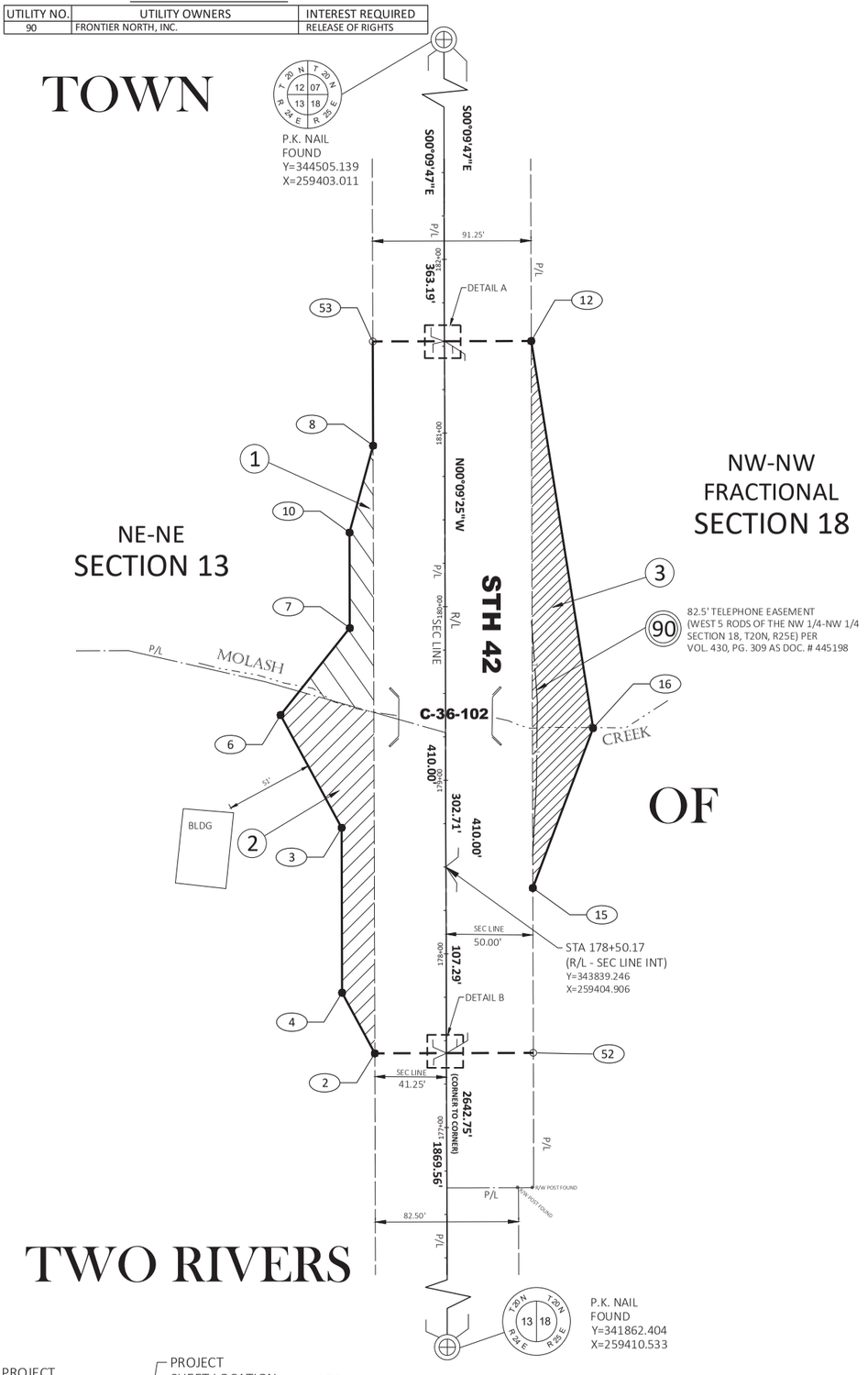
PARCEL NO.	OWNER(S)	INTEREST(S) REQUIRED	NEW R/W	EXIST R/W	TOTAL R/W
1	PETER J. PATEK	FEE	0.05 AC	0.21 AC	0.26 AC
2	THOMAS W. SCHULTZ & KAREN A. SCHULTZ	FEE	0.11 AC	0.18 AC	0.29 AC
3	JANICE DUCAT	FEE	0.13 AC	---	0.13 AC

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN IS BASED UPON THE FOLLOWING POINTS OF REFERENCE:

EXISTING RIGHT-OF-WAY OF STH 42 ESTABLISHED FROM PREVIOUS PROJECTS:
WISDOT PROJECT 0T01-4 (22) TWO RIVERS - NO. CO. LINE AND TWO RIVERS - NO. CO. LINE ROAD
STATE AID PROJECT 3196.

UTILITY INTERESTS REQUIRED

UTILITY NO.	UTILITY OWNERS	INTEREST REQUIRED
90	FRONTIER NORTH, INC.	RELEASE OF RIGHTS



CONVENTIONAL SYMBOLS

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

SECTION CORNER SYMBOL
SECTION CORNER MONUMENT
R/W MONUMENT (TO BE SET)
NON-MONUMENTED R/W POINT
FOUND IRON PIN (1-INCH UNLESS NOTED)
GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
SIGN
OFF-PREMISE SIGN
COMPENSABLE NON-COMPENSABLE
ELECTRIC POLE
TELEPHONE POLE
PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)
ACCESS RESTRICTED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)
PARCEL NUMBER 25 UTILITY NUMBER 40
PARALLEL OFFSETS
25 R/W POINT NUMBER 30 TLE POINT NUMBER

CONVENTIONAL ABBREVIATIONS

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

CURVE DATA

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

CONVENTIONAL UTILITY SYMBOLS

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

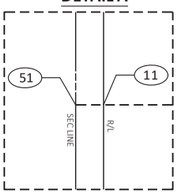
LINE TABLE

LINE	BEARING	DISTANCE
51-11	N89°50'35"E	0.03'
11-12	N89°50'35"E	49.97'
12-16	S09°05'06"E	225.74'
16-15	S20°40'15"W	98.43'
15-52	S00°09'47"E	95.00'
52-13	S89°50'35"W	50.00'
13-1	S89°50'35"W	0.01'
1-2	S89°50'35"W	41.24'
2-4	N28°21'01"W	39.71'
4-3	N00°09'25"W	95.00'
3-6	N28°27'28"W	73.82'
6-7	N38°30'10"E	64.03'
7-10	N00°09'25"W	55.00'
10-8	N15°11'32"E	51.85'
8-53	N00°09'47"W	60.00'
53-51	N89°50'35"E	41.25'

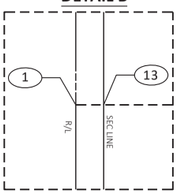
RIGHT OF WAY TABLE

PT#	Y	X	STA	OFFSET
1	343731.957	259405.200	177+42.88	0.00'
2	343731.844	259363.962	177+42.88	41.24'
3	343861.792	259344.844	178+72.88	60.00'
4	343766.793	259345.105	177+77.88	60.00'
6	343926.696	259309.666	179+37.88	95.00'
7	343976.806	259349.529	179+87.88	55.00'
8	344081.841	259362.966	180+92.88	41.28'
10	344031.805	259349.379	180+42.88	55.00'
11	344141.956	259404.077	181+52.88	0.00'
12	344142.093	259454.045	181+52.88	49.97'
13	343731.957	259405.212	177+42.88	0.01'
15	343827.094	259454.941	178+37.88	50.00'
16	343919.189	259489.688	179+29.88	85.00'
51	344141.956	259404.045	181+52.88	0.03'
52	343732.094	259455.213	177+42.88	50.01'
53	344141.843	259362.795	181+52.88	41.28'

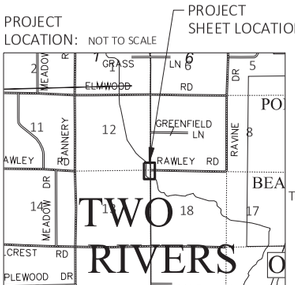
DETAIL A



DETAIL B



PROJECT LOCATION: NOT TO SCALE



NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), MANITOWOC COUNTY, NAD 83 (2011) 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 1-INCH BY 24-INCH IRON PIPE) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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

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 BOUNDARIES, 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.

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

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

FOR THE CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN GREEN BAY.

PARCEL IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE SCHEDULE OF LANDS AND REQUIRED.

Westwood
Phone (920) 735-6900
Fax (920) 830-6100
Toll Free (800) 571-6677
Westwood Professional Services
One Systems Drive
Appleton, WI 54914-1654
westwoodps.com

I, PAUL D. NORDWIG PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT. I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT 1470-30-21-4.01 AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN PAUL D. NORDWIG 2784 WRIGHTSTOWN WI LAND SURVEYOR

SIGNATURE: Paul D. Nordwig DATE: 11-5-2021
PRINT NAME: PAUL D. NORDWIG
REGISTRATION NUMBER: S-2784

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE DEPARTMENT

SIGNATURE: Curt Van Erem DATE: 11-5-2021
PRINT NAME: CURT VAN EREM

PLOT SCALE : 1 IN:40 FT
PLOT NAME : Terry Van Hout
PLOT BY : 11/5/2021 1:36 PM
PLOT DATE :
PLOT DATE :
FILE NAME : N:\300122.00\ASSIGN D, 1470-30-00 STH 42, MANITOWOC COUNTY\CIVIL 3D\RW\TPP.DWG
APPRAISAL PLAT DATE : 11-5-2021

1243694
DOC# 1243694

TRANSPORTATION PROJECT PLAT NO: 1470-30-21 - 4.02

A PART OF THE SOUTHEAST QUARTER OF THE SOUTHEAST QUARTER, SECTION 15, AND ALSO A PART OF THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER, SECTION 14, ALL IN T21N, R24E, TOWN OF TWO CREEKS, MANITOWOC COUNTY, WISCONSIN.

RELOCATION ORDER STH 42 TWO RIVERS-KEWAUNEE 34TH STREET-NCL MANITOWOC COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER 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 NAMED 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 SUBSECTION 84.09 (1) OR (2). WISCONSIN STATUTES.

GN

SCALE, FEET
0 20 40

REGISTERS OFFICE
MANITOWOC COUNTY, WI
RECEIVED FOR RECORD
Nov 3 2021 @ 10:45AM
PLAT CABINET D PAGE 90
RUBY TUCHOLSKI, REGISTER

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER: 1470-30-21-4.02
AMENDMENT NO:

SCHEDULE OF LANDS AND INTERESTS REQUIRED

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

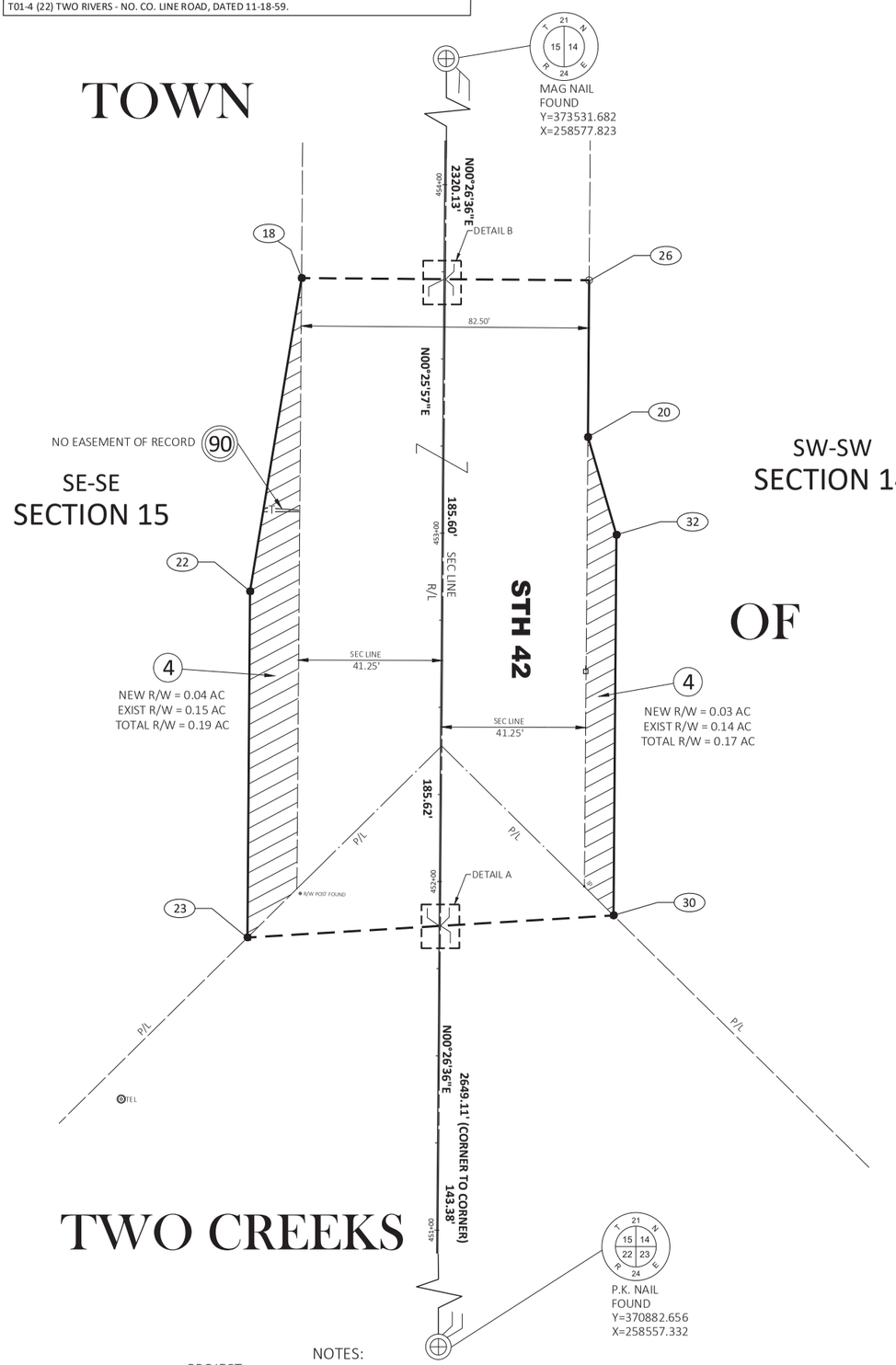
PARCEL NO.	OWNER(S)	INTEREST(S) REQUIRED	NEW R/W	EXIST R/W	TOTAL R/W
4	WISCONSIN ELECTRIC POWER COMPANY	FEE	0.07 AC	0.29 AC	0.36 AC

UTILITY INTERESTS REQUIRED

UTILITY NO.	UTILITY OWNERS	INTEREST REQUIRED
90	FRONTIER NORTH INC.	RELEASE OF RIGHTS

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN IS BASED UPON THE FOLLOWING POINTS OF REFERENCE:

EXISTING RIGHT-OF-WAY OF STH 42 ESTABLISHED FROM PREVIOUS PROJECT:
WISDOT PROJECT FEDERAL AID PROJECT NO. 367-C TWO RIVERS-NO. CO. LINE ROAD; R/W PROJECT NO. T01-4 (22) TWO RIVERS - NO. CO. LINE ROAD, DATED 11-18-59.



CONVENTIONAL SYMBOLS

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

SECTION CORNER SYMBOL
SECTION CORNER MONUMENT
R/W MONUMENT (TO BE SET)
NON-MONUMENTED R/W POINT
FOUND IRON PIN (1-INCH UNLESS NOTED)
GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
SIGN
OFF-PREMISE SIGN
COMPENSABLE NON-COMPENSABLE
ELECTRIC POLE
TELEPHONE POLE
PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)
ACCESS RESTRICTED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)
PARCEL NUMBER 25 UTILITY NUMBER 40
PARALLEL OFFSETS
25 R/W POINT NUMBER 30 TLE POINT NUMBER

CONVENTIONAL ABBREVIATIONS

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

CURVE DATA

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

CONVENTIONAL UTILITY SYMBOLS

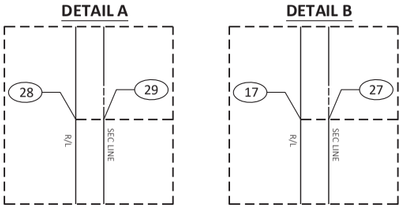
WATER W
GAS G
TELEPHONE T
OVERHEAD TRANSMISSION LINES OH
ELECTRIC E
CABLE TELEVISION TV
FIBER OPTIC FO
SANITARY SEWER SAN
STORM SEWER ST
ELECTRIC TOWER

LINE TABLE

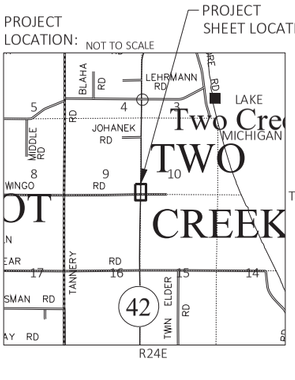
LINE	BEARING	DISTANCE
29-28	S86°32'27"W	0.33'
28-23	S86°32'27"W	55.13'
23-22	N00°25'57"E	99.36'
22-18	N09°20'53"E	91.10'
18-17	S89°34'03"E	40.89'
17-27	S89°34'03"E	0.36'
27-26	S89°34'03"E	41.25'
26-20	S00°26'35"W	45.00'
20-32	S16°14'51"E	29.23'
32-30	S00°25'57"W	109.22'
30-29	S86°32'27"W	49.79'

RIGHT OF WAY TABLE

PT#	Y	X	STA	OFFSET
17	371211.623	258559.517	453+72.88	0.00'
18	371211.932	258518.636	453+72.88	40.88'
20	371166.310	258600.786	453+27.88	41.62'
22	371122.041	258503.839	452+82.88	55.00'
23	371022.684	258503.089	451+83.52	55.00'
26	371211.309	258601.134	453+72.88	41.62'
27	371211.620	258559.877	453+72.88	0.36'
28	371026.011	258558.116	451+87.26	0.00'
29	371026.030	258558.441	451+87.28	0.33'
30	371029.035	258608.140	451+90.66	50.00'
32	371138.248	258608.964	452+99.88	50.00'



PROJECT LOCATION: NOT TO SCALE



NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), MANITOWOC COUNTY, NAD 83 (2011) 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 1-INCH BY 24-INCH IRON PIPE) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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

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 BOUNDARIES, 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.

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

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

FOR THE CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN GREEN BAY.

PARCEL IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE SCHEDULE OF LANDS AND INTEREST.

Westwood
Phone (920) 735-6900
Fax (920) 830-6100
Toll Free (800) 571-6677
Westwood Professional Services
One Systems Drive
Appleton, WI 54914-1654
westwoodps.com

I, PAUL D. NORDWIG PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT. I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT 1470-30-21-4.02 AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN PAUL D. NORDWIG 2784 WRIGHTSTOWN WI LAND SURVEYOR

SIGNATURE: Paul D Nordwig DATE: 11-1-2021
PRINT NAME: PAUL D. NORDWIG
REGISTRATION NUMBER: S-2784

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE DEPARTMENT
SIGNATURE: Curt Van Erem DATE: 11-1-2021
PRINT NAME: CURT VAN EREM

FILE NAME : N:\3001122.00\ASSIGN D. 1470-30-00 STH 42, MANITOWOC COUNTY\CIVIL 3D\RW\TPP.DWG
APPRAISAL PLAT DATE : 11-1-2021
PLOT DATE : 11/1/2021 12:52 PM
PLOT BY : Andy Westbrook
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
Page 81

DOC# 1243910

TRANSPORTATION PROJECT PLAT NO: 1470-30-21 - 4.03

PART OF TRACT 2 OF VOL. 28, CERTIFIED SURVEY MAP, PG 55 DOCUMENT 1056119, BEING LOCATED IN AND PART OF THE SOUTHWEST QUARTER OF THE NORTHWEST QUARTER, PART OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER, SECTION 11, AND ALSO PART OF THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER AND THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER, SECTION 10, ALL IN T21N, R24E, TOWN OF TWO CREEKS, MANITOWOC COUNTY, WISCONSIN.

RELOCATION ORDER STH 42 TWO RIVERS-KEWUANEE 34TH STREET-NCL MANITOWOC COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER 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 NAMED 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 SUBSECTION 84.09 (1) OR (2). WISCONSIN STATUTES.

GN

SCALE, FEET
0 20 40

REGISTERS OFFICE)
MANITOWOC COUNTY, WI)
RECEIVED FOR RECORD
November 10, 2021 @ 3:00 PM
Plat Cabinet D / JKT 9D
KRISTI TUESBURG, REGISTER

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER: 1470-30-21- 4.03
AMENDMENT NO:__

SCHEDULE OF LANDS AND INTERESTS REQUIRED

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

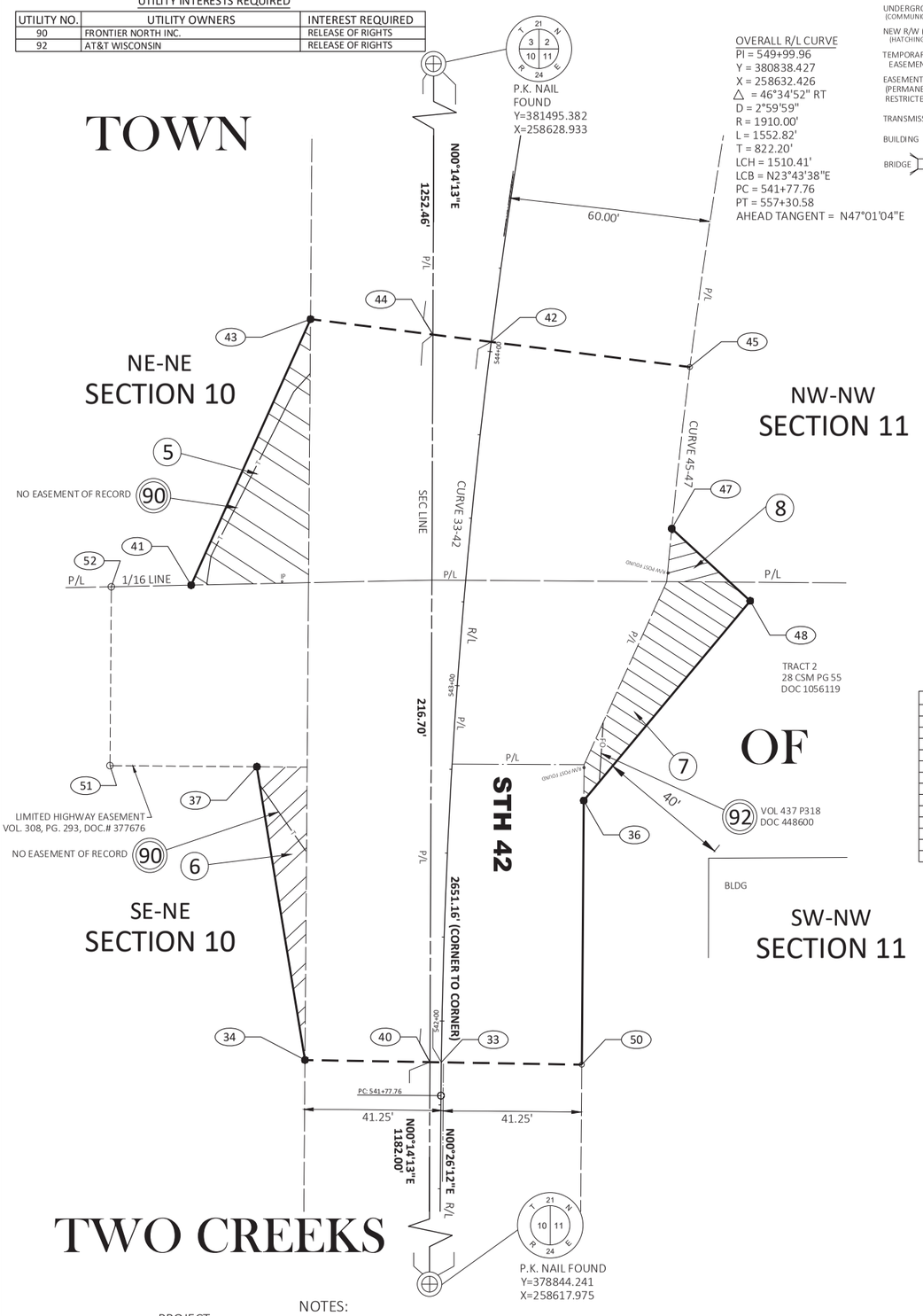
PARCEL NO.	OWNER(S)	INTEREST(S) REQUIRED	NEW R/W	EXIST R/W	TOTAL R/W
5	TRUST AGREEMENT OF MARK AND CRISTINE TULACHKA	FEE	1373 SQ FT	2776 SQ FT	4149 SQ FT
6	DONALD H. WOJTA	FEE	624 SQ FT	5286 SQ FT	5910 SQ FT
7	GARY D. MAIGATTER & BERNADINE M. MAIGATTER	FEE	1063 SQ FT	4485 SQ FT	5548 SQ FT
8	NAOMI LONG	FEE	149 SQ FT	----	149 SQ FT

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN IS BASED UPON THE FOLLOWING POINTS OF REFERENCE:

EXISTING RIGHT-OF-WAY OF STH 42 ESTABLISHED FROM PREVIOUS PROJECT:
WISDOT PROJECT FEDERAL AID PROJECT NO. 367-C TWO RIVERS-NO. CO. LINE ROAD; R/W PROJECT NO. T01-4 (22) TWO RIVERS - NO. CO. LINE ROAD, DATED 11-18-59.

UTILITY INTERESTS REQUIRED

UTILITY NO.	UTILITY OWNERS	INTEREST REQUIRED
90	FRONTIER NORTH INC.	RELEASE OF RIGHTS
92	AT&T WISCONSIN	RELEASE OF RIGHTS



CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W OR HE LINE
PROPERTY LINE
LOT, TIE & OTHER MINOR LINES
SLOPE INTERCEPT
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC)
NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)
TEMPORARY LIMITED EASEMENT AREA
EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING TO BE REMOVED
BRIDGE
SECTION CORNER SYMBOL
SECTION CORNER MONUMENT
R/W MONUMENT (TO BE SET)
NON-MONUMENTED R/W POINT
FOUND IRON PIN (1-INCH UNLESS NOTED)
GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
SIGN
OFF-PREMISE SIGN
COMPENSABLE NON-COMPENSABLE
ELECTRIC POLE
TELEPHONE POLE
PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)
ACCESS RESTRICTED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)
PARCEL NUMBER 25 UTILITY NUMBER 40
PARALLEL OFFSETS
25 R/W POINT NUMBER 30 TLE POINT NUMBER

CONVENTIONAL ABBREVIATIONS

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

CURVE DATA

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

CONVENTIONAL UTILITY SYMBOLS

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

LINE TABLE

LINE	BEARING	DISTANCE
40-34	N89°01'55"W	37.24'
34-37	N09°19'30"W	88.52'
37-51	N89°34'07"W	43.75'
51-52	N00°25'53"E	53.28'
52-41	N88°48'18"E	23.77'
41-43	N24°11'19"E	86.84'
43-44	S82°48'36"E	36.76'
44-42	S82°48'36"E	17.50'
42-45	S82°48'36"E	59.68'
47-48	S47°20'50"E	31.78'
48-36	S39°49'24"W	77.43'
36-50	S00°25'53"W	78.68'
50-33	N89°01'55"W	41.86'
33-40	N89°01'55"W	3.40'

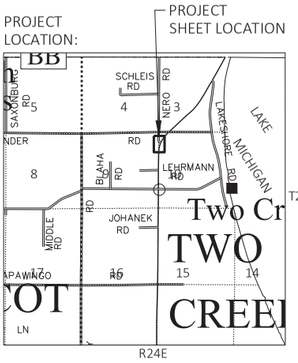
RIGHT OF WAY TABLE

PT#	Y	X	STA	OFFSET
33	380026.172	258626.263	541+87.68	0.00'
34	380026.858	258585.628	541+87.84	40.64'
36	380104.138	258668.712	542+67.88	39.80'
37	380114.206	258571.285	542+76.46	58.04'
40	380026.229	258622.861	541+87.70	3.40'
41	380168.315	258551.706	543+23.20	81.38'
42	380240.742	258641.122	544+02.88	0.00'
43	380247.534	258587.289	544+02.88	54.26'
44	380242.933	258623.756	544+02.88	17.50'
45	380233.273	258700.329	544+02.88	59.68'
47	380185.140	258694.926	543+52.88	59.71'
48	380163.607	258718.300	543+32.88	85.00'
50	380025.464	258668.120	541+87.51	41.87'
51	380114.536	258527.536	542+70.39	-101.73'
52	380167.819	258527.937	543+20.85	-105.03'

CURVE TABLE

CURVE	R	L	LCH	LCB	TANGENT BEARING
45-47	1849.86'	48.44'	48.44'	S06°24'17"W	S05°39'16"W, N07°09'17"E
33-42	1910.00'	215.20'	215.09'	N03°57'41"E	S00°44'02"W, N07°11'21"E
PC-33	1910.00'	9.92'	9.92'	N00°35'08"E	N00°26'12"E, N00°44'04"E
42-PT	1910.00'	1327.70'	1301.13'	N27°06'14"E	N07°11'24"E, N47°01'04"E

PROJECT LOCATION:



NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), MANITOWOC COUNTY, NAD 83 (2011) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

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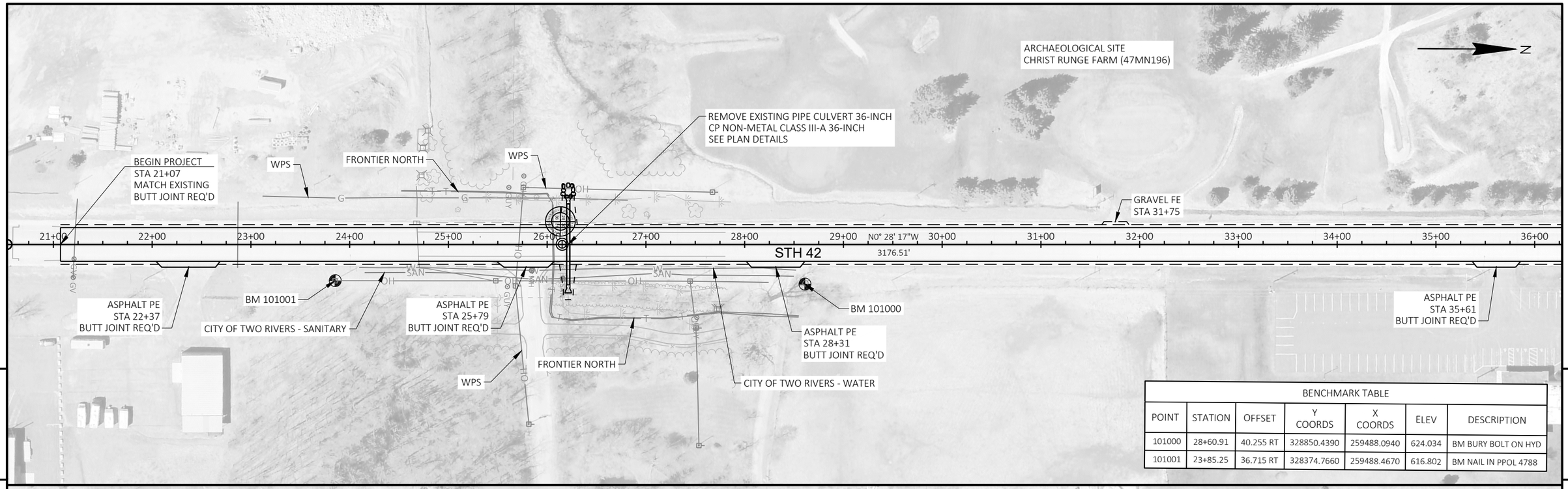
I, PAUL D. NORDWIG PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT. I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT 1470-30-21-4.03 AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN PAUL D. NORDWIG 2784 WRIGHTSTOWN WI LAND SURVEYOR

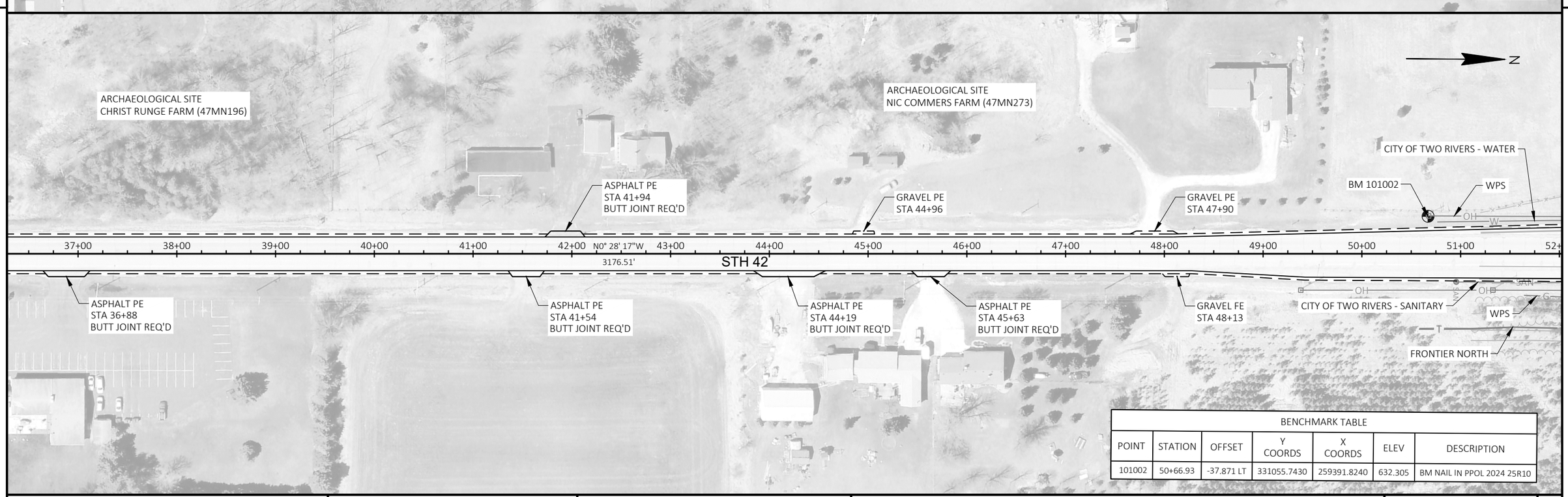
SIGNATURE: Paul D Nordwig DATE: 11-5-2021
PRINT NAME: PAUL D. NORDWIG
REGISTRATION NUMBER: S-2784

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE DEPARTMENT
SIGNATURE: Curt Van Erem DATE: 11-5-2021
PRINT NAME: CURT VAN EREM

Page 82
1 IN:20 FT
PLOT SCALE :
PLOT NAME :
PLOT BY : Terry Van Hout
PLOT DATE : 11/5/2021 1:43 PM
PLOT DATE : 84
PLOT DATE :
FILE NAME : N:\3001122.00\ASSIGN D. 1470-30-00 STH 42, MANITOWOC COUNTY\CIVIL 3D\RW\TPP.DWG
APPRAISAL PLAT DATE : 11-5-2021

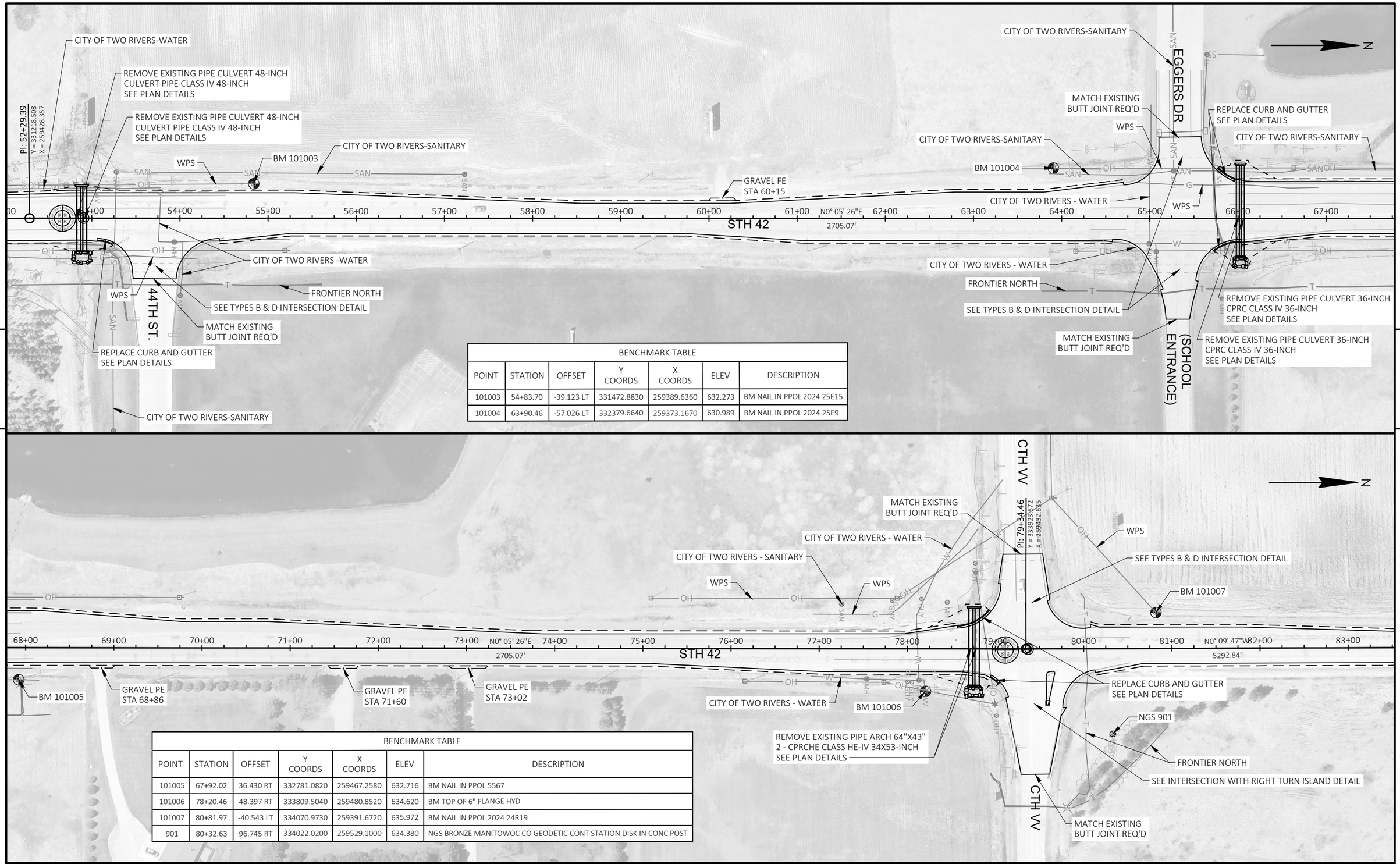


BENCHMARK TABLE						
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEV	DESCRIPTION
101000	28+60.91	40.255 RT	328850.4390	259488.0940	624.034	BM BURY BOLT ON HYD
101001	23+85.25	36.715 RT	328374.7660	259488.4670	616.802	BM NAIL IN PPOL 4788



BENCHMARK TABLE						
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEV	DESCRIPTION
101002	50+66.93	-37.871 LT	331055.7430	259391.8240	632.305	BM NAIL IN PPOL 2024 25R10

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN SHEETS	SHEET 85	E



BENCHMARK TABLE						
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEV	DESCRIPTION
101003	54+83.70	-39.123 LT	331472.8830	259389.6360	632.273	BM NAIL IN PPOL 2024 25E15
101004	63+90.46	-57.026 LT	332379.6640	259373.1670	630.989	BM NAIL IN PPOL 2024 25E9

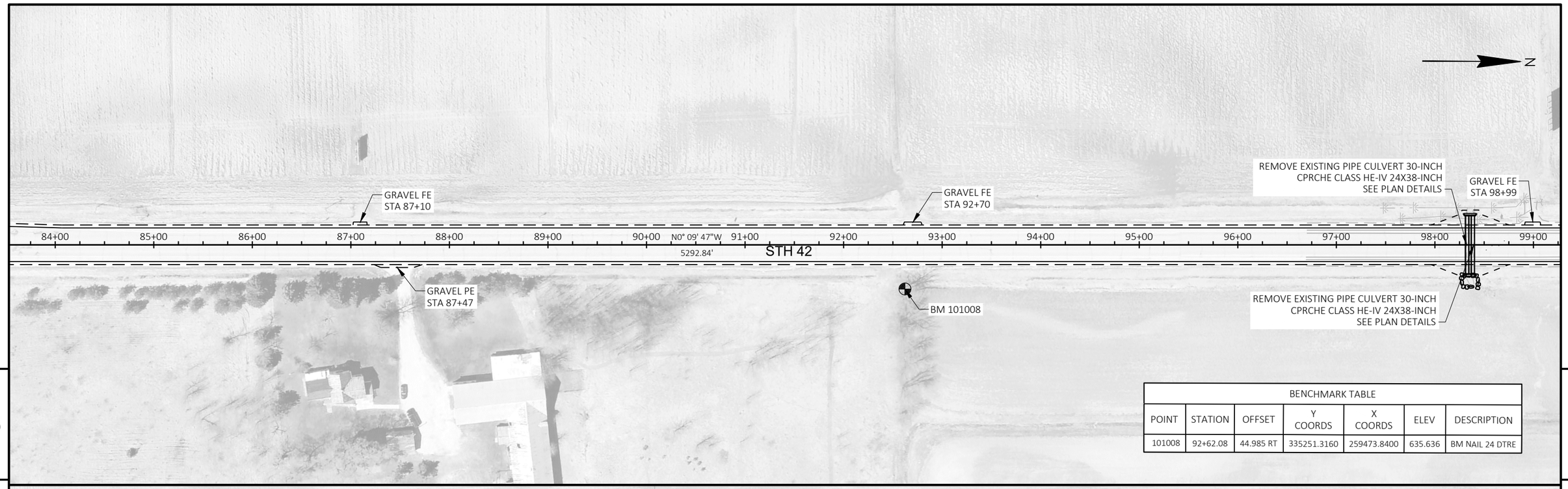
BENCHMARK TABLE						
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEV	DESCRIPTION
101005	67+92.02	36.430 RT	332781.0820	259467.2580	632.716	BM NAIL IN PPOL 5567
101006	78+20.46	48.397 RT	333809.5040	259480.8520	634.620	BM TOP OF 6" FLANGE HYD
101007	80+81.97	-40.543 LT	334070.9730	259391.6720	635.972	BM NAIL IN PPOL 2024 24R19
901	80+32.63	96.745 RT	334022.0200	259529.1000	634.380	NGS BRONZE MANITOWOC CO GEODETIC CONT STATION DISK IN CONC POST

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN SHEETS	SHEET 86	E

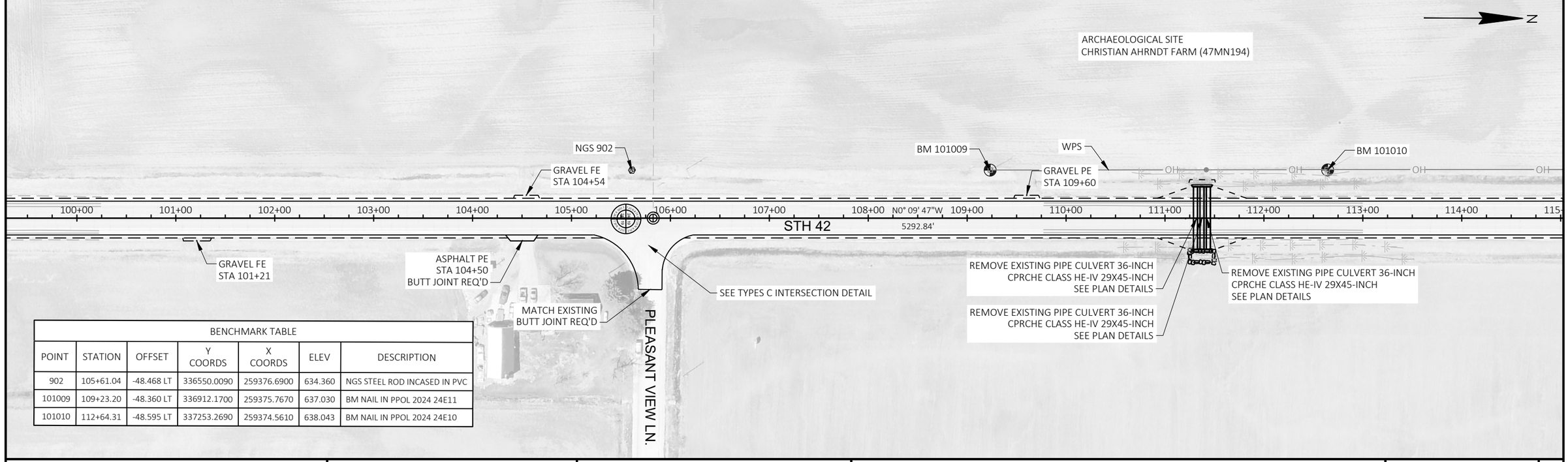
FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050202-pn

PLOT DATE : 7/8/2022 7:51 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



BENCHMARK TABLE						
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEV	DESCRIPTION
101008	92+62.08	44.985 RT	335251.3160	259473.8400	635.636	BM NAIL 24 DTRE



BENCHMARK TABLE						
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEV	DESCRIPTION
902	105+61.04	-48.468 LT	336550.0090	259376.6900	634.360	NGS STEEL ROD INCASED IN PVC
101009	109+23.20	-48.360 LT	336912.1700	259375.7670	637.030	BM NAIL IN PPOL 2024 24E11
101010	112+64.31	-48.595 LT	337253.2690	259374.5610	638.043	BM NAIL IN PPOL 2024 24E10

N

ARCHAEOLOGICAL SITE
CHRISTIAN AHRNDT FARM (47MN194)

GRAVEL PE
STA 119+16

00 116+00 117+00 118+00 119+00 120+00 121+00 122+00 123+00 124+00 N0° 09' 47"W 125+00 126+00 127+00 128+00 129+00 130+00

STH 42

5292.84'

GRAVEL PE
STA 119+31

ASPHALT PE
STA 123+67
BUTT JOINT REQ'D

ARCHAEOLOGICAL SITE
J. WILSMANN FARM (47MN278)

5

5

ARCHAEOLOGICAL SITE
CHRISTIAN AHRNDT
FARM (47MN194)

E HILLCREST RD.

PI: 132+27.30
Y = 339216.389
X = 259417.567

MATCH EXISTING
BUTT JOINT REQ'D

SEE TYPES B & D INTERSECTION DETAIL

N

131+00 N0° 09' 47"W 132+00 133+00 134+00 135+00 136+00 137+00 138+00 139+00 140+00 N0° 09' 25"W 141+00 142+00 143+00 144+00 145+00 146+00

5292.84'

STH 42

5289.00'

GRAVEL PE
STA 135+89

MATCH EXISTING
BUTT JOINT REQ'D

E HILLCREST RD.

ARCHAEOLOGICAL SITE
J. WILSMANN FARM
(47MN278)

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN SHEETS	SHEET 88	E



BENCHMARK TABLE						
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEV	DESCRIPTION
1004	176+62.44	37.204 RT	343651.6210	259442.6240	648.320	BM RR SPIKE IN WEST SIDE OF PPOL

5

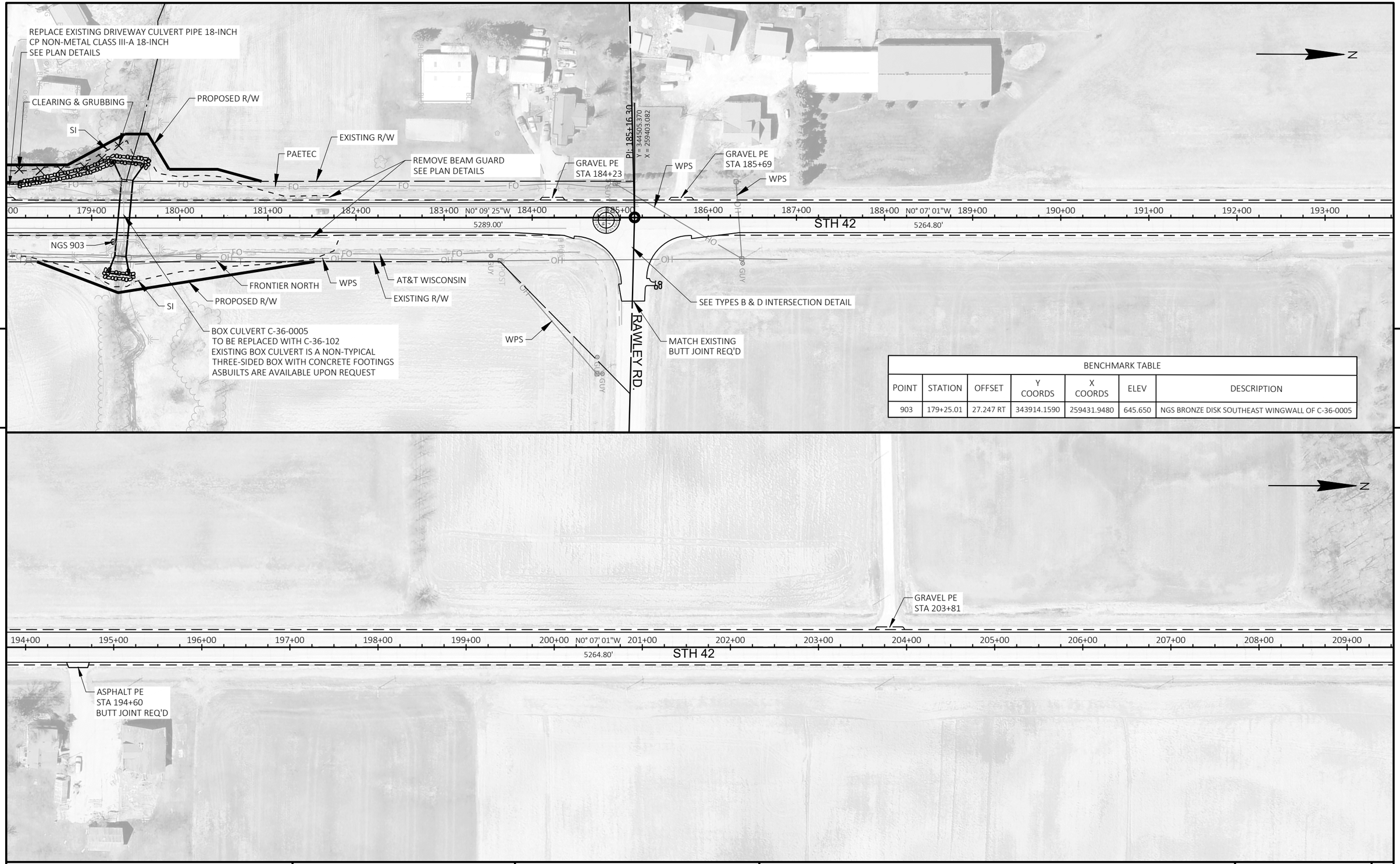
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PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN SHEETS	SHEET 89	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050205-pn

PLOT DATE : 7/8/2022 7:52 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



5

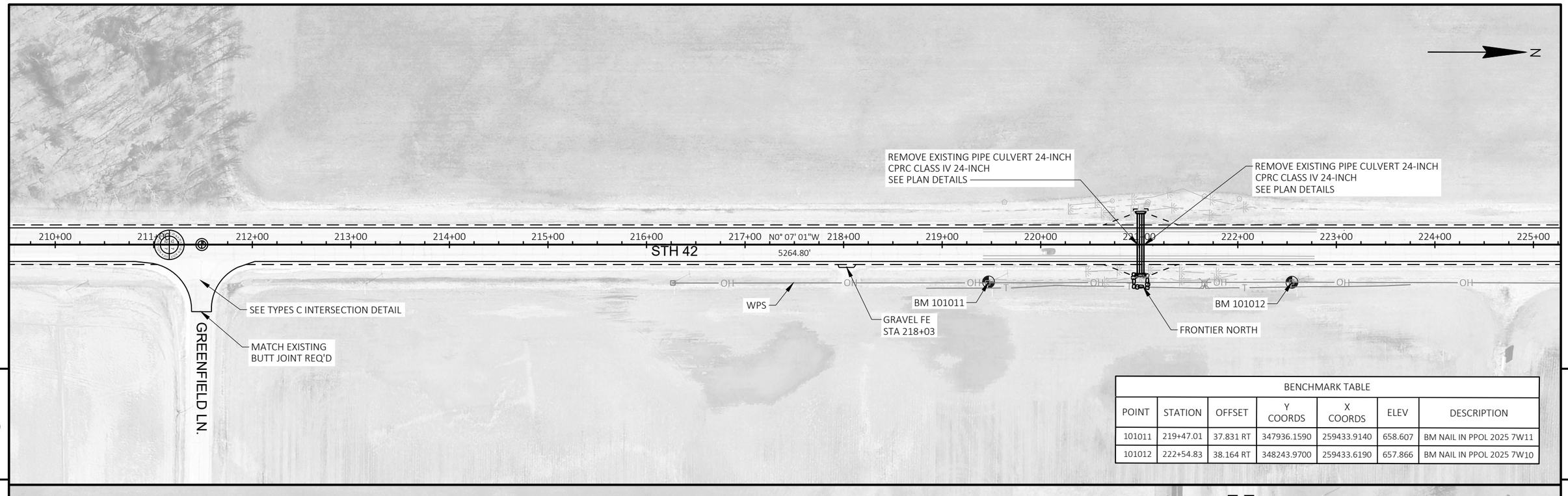
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BENCHMARK TABLE						
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEV	DESCRIPTION
903	179+25.01	27.247 RT	343914.1590	259431.9480	645.650	NGS BRONZE DISK SOUTHEAST WINGWALL OF C-36-0005

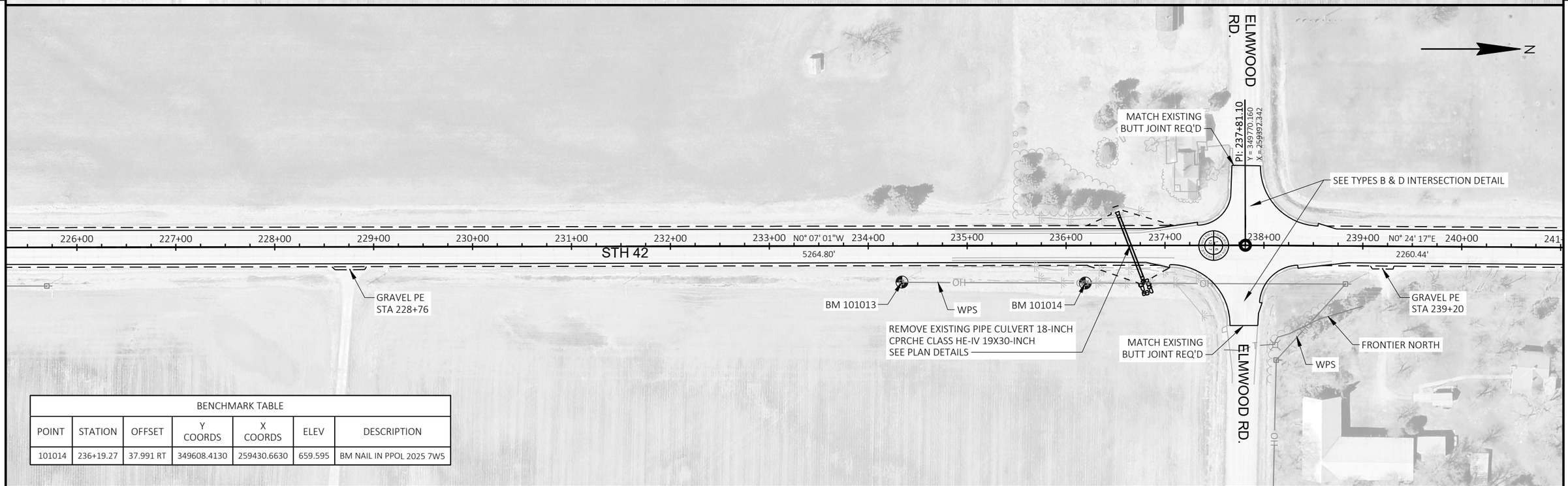
PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN SHEETS	SHEET 90	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050206-pn

PLOT DATE : 7/8/2022 7:52 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : PLOT SCALE : 1 IN:100 FT



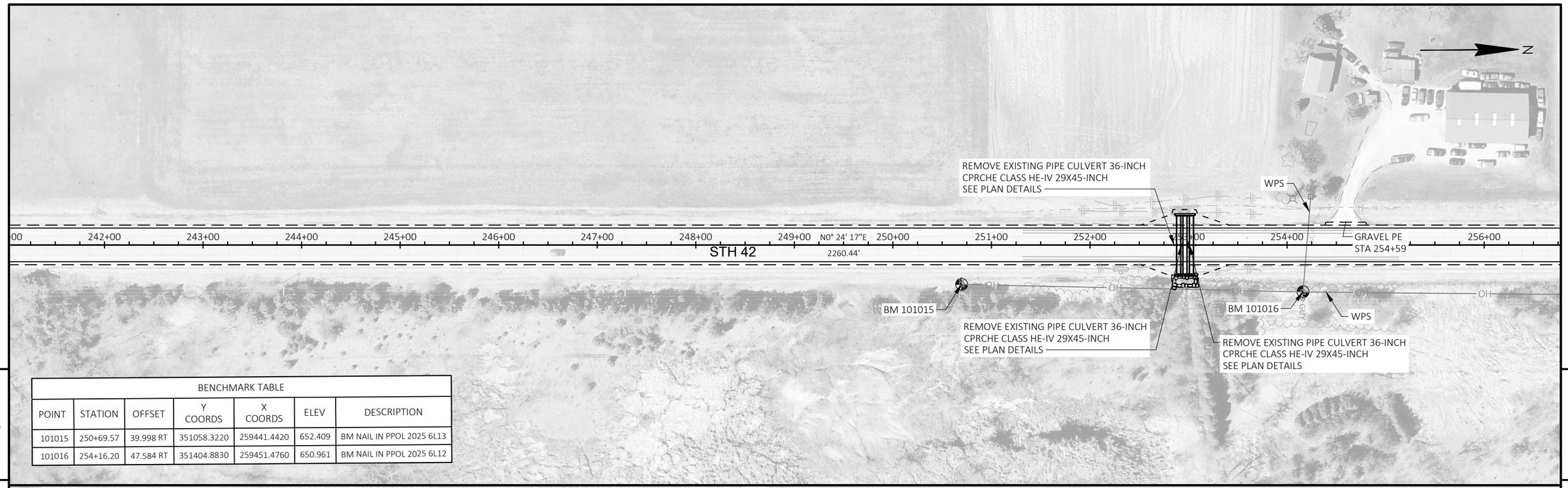
BENCHMARK TABLE						
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEV	DESCRIPTION
101011	219+47.01	37.831 RT	347936.1590	259433.9140	658.607	BM NAIL IN PPOL 2025 7W11
101012	222+54.83	38.164 RT	348243.9700	259433.6190	657.866	BM NAIL IN PPOL 2025 7W10



BENCHMARK TABLE						
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEV	DESCRIPTION
101014	236+19.27	37.991 RT	349608.4130	259430.6630	659.595	BM NAIL IN PPOL 2025 7W5

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN SHEETS	SHEET 91	E

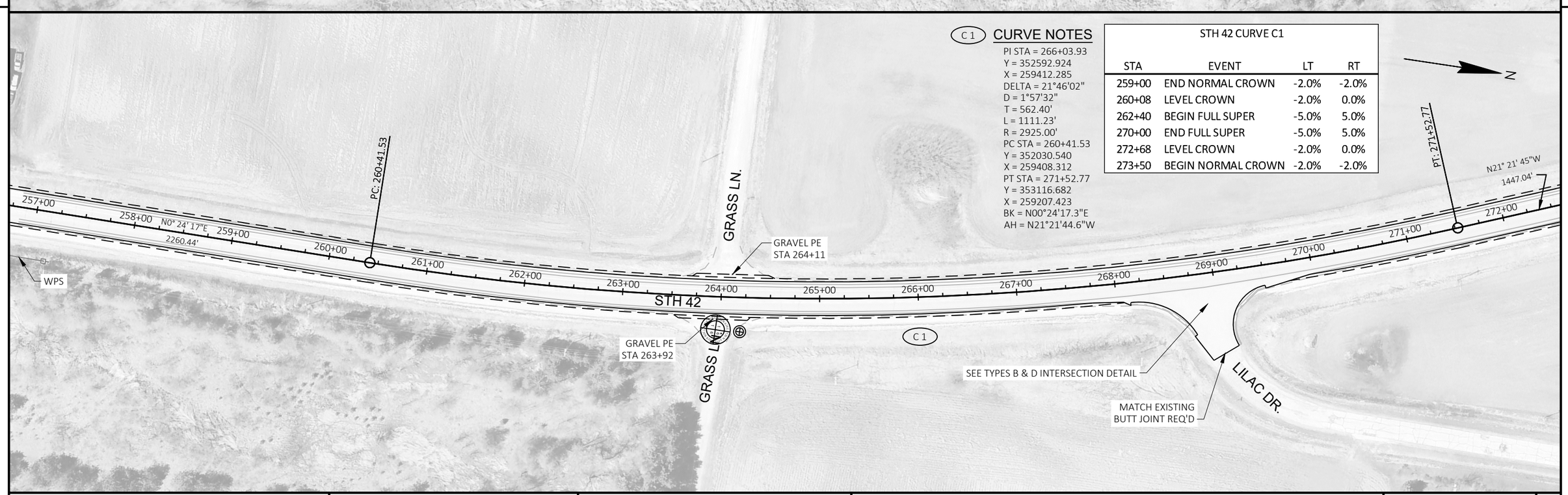
BENCHMARK TABLE						
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEV	DESCRIPTION
101015	250+69.57	39.998 RT	351058.3220	259441.4420	652.409	BM NAIL IN PPOL 2025 6L13
101016	254+16.20	47.584 RT	351404.8830	259451.4760	650.961	BM NAIL IN PPOL 2025 6L12



C 1 **CURVE NOTES**

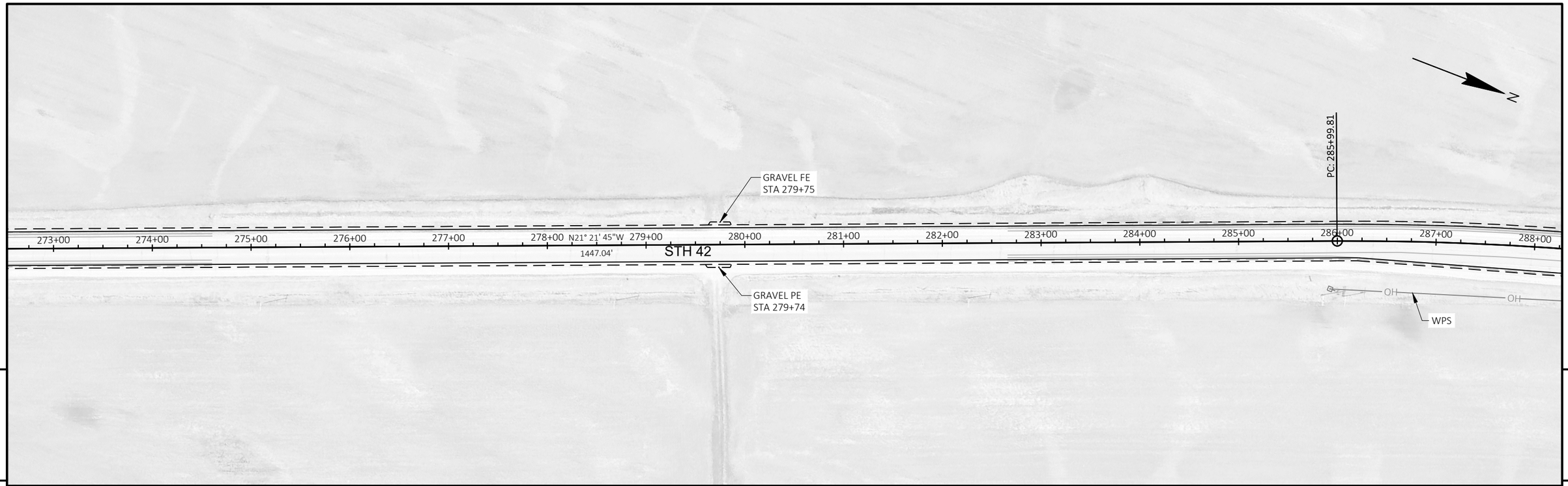
PI STA = 266+03.93
Y = 352592.924
X = 259412.285
DELTA = 21°46'02"
D = 1°57'32"
T = 562.40'
L = 1111.23'
R = 2925.00'
PC STA = 260+41.53
Y = 352030.540
X = 259408.312
PT STA = 271+52.77
Y = 353116.682
X = 259207.423
BK = N00°24'17.3"E
AH = N21°21'44.6"W

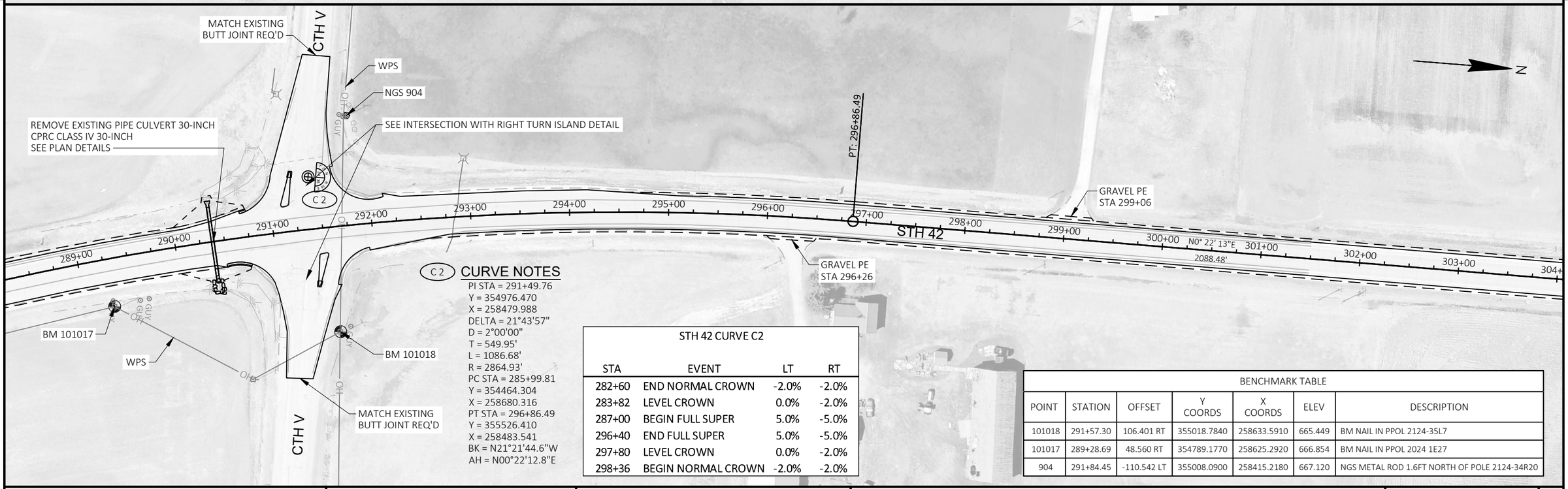
STH 42 CURVE C1			
STA	EVENT	LT	RT
259+00	END NORMAL CROWN	-2.0%	-2.0%
260+08	LEVEL CROWN	-2.0%	0.0%
262+40	BEGIN FULL SUPER	-5.0%	5.0%
270+00	END FULL SUPER	-5.0%	5.0%
272+68	LEVEL CROWN	-2.0%	0.0%
273+50	BEGIN NORMAL CROWN	-2.0%	-2.0%



PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN SHEETS	SHEET 92	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050208-pn
PLOT DATE : 7/8/2022 7:52 AM
PLOT BY : SCHERER, MEGAN S
PLOT NAME :
PLOT SCALE : 1 IN:100 FT





C 2 **CURVE NOTES**

PI STA = 291+49.76
Y = 354976.470
X = 258479.988
DELTA = 21°43'57"
D = 2°00'00"
T = 549.95'
L = 1086.68'
R = 2864.93'
PC STA = 285+99.81
Y = 354464.304
X = 258680.316
PT STA = 296+86.49
Y = 355526.410
X = 258483.541
BK = N21°21'44.6"W
AH = N00°22'12.8"E

STH 42 CURVE C2

STA	EVENT	LT	RT
282+60	END NORMAL CROWN	-2.0%	-2.0%
283+82	LEVEL CROWN	0.0%	-2.0%
287+00	BEGIN FULL SUPER	5.0%	-5.0%
296+40	END FULL SUPER	5.0%	-5.0%
297+80	LEVEL CROWN	0.0%	-2.0%
298+36	BEGIN NORMAL CROWN	-2.0%	-2.0%

BENCHMARK TABLE

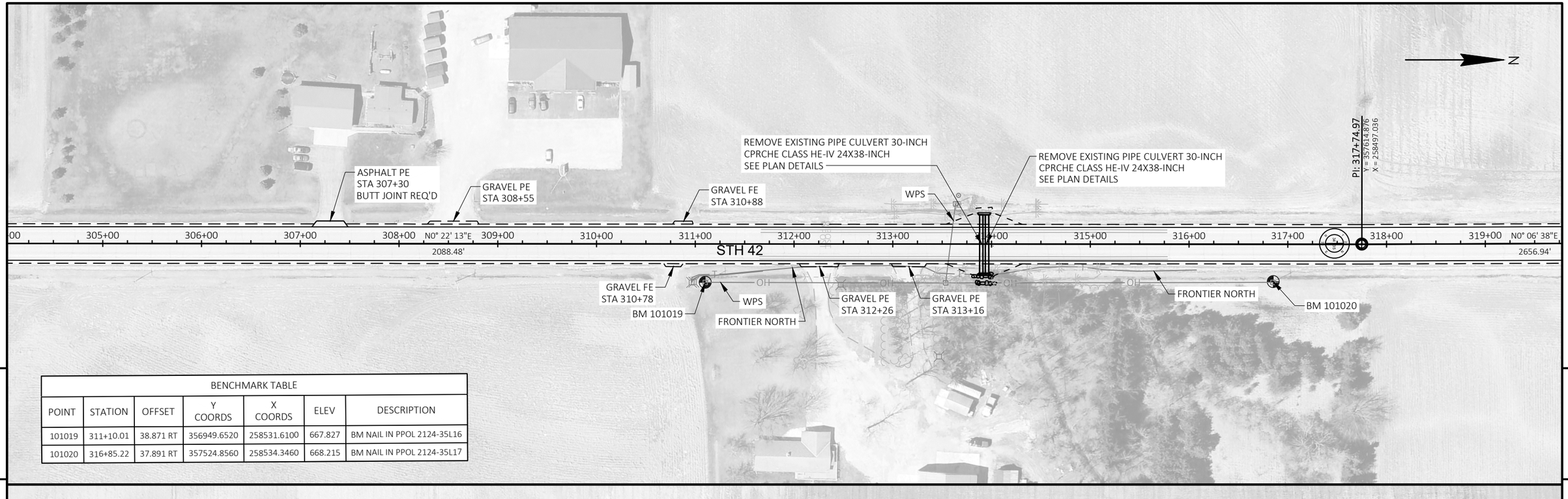
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEV	DESCRIPTION
101018	291+57.30	106.401 RT	355018.7840	258633.5910	665.449	BM NAIL IN PPOL 2124-35L7
101017	289+28.69	48.560 RT	354789.1770	258625.2920	666.854	BM NAIL IN PPOL 2024 1E27
904	291+84.45	-110.542 LT	355008.0900	258415.2180	667.120	NGS METAL ROD 1.6FT NORTH OF POLE 2124-34R20

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN SHEETS	SHEET 93	E

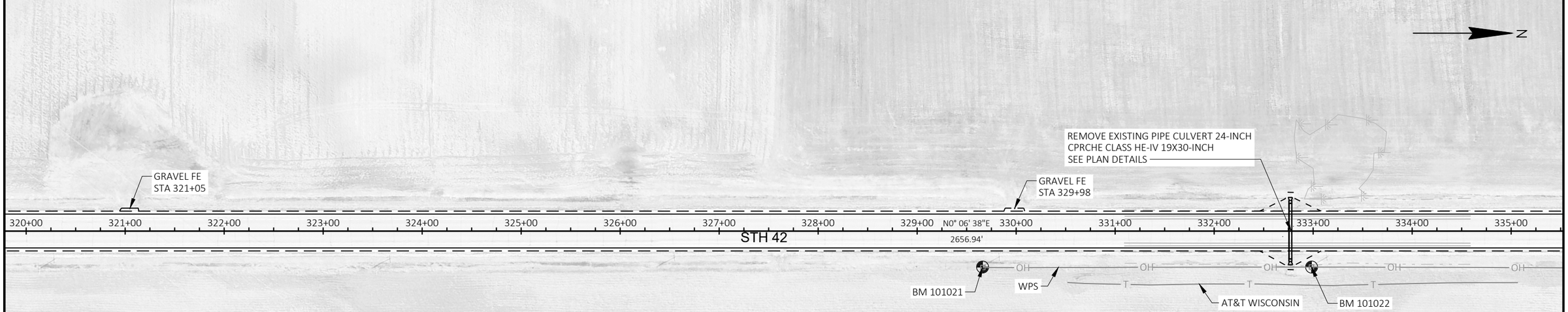
FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050209-pn

PLOT DATE : 7/8/2022 7:53 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

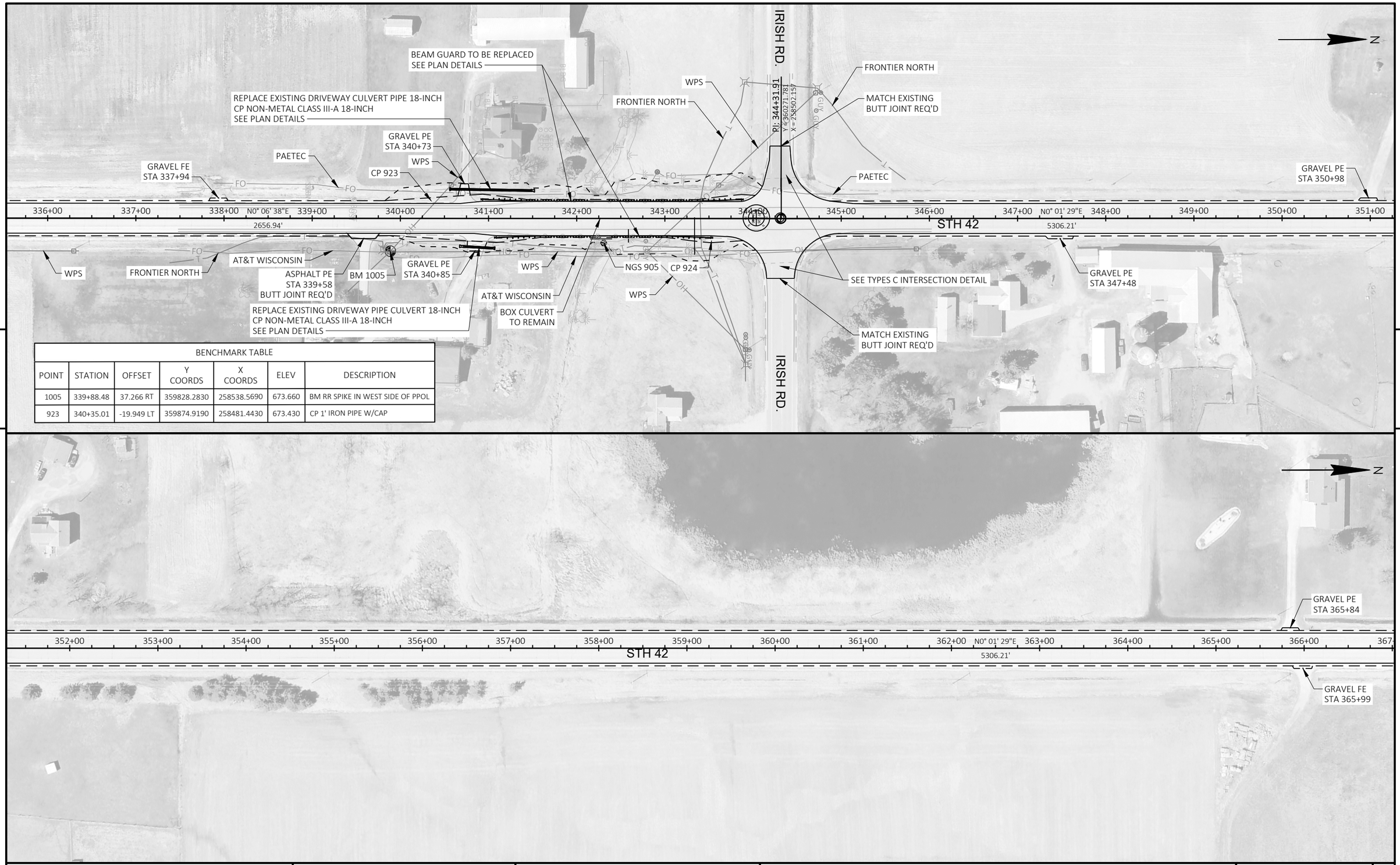


BENCHMARK TABLE						
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEV	DESCRIPTION
101019	311+10.01	38.871 RT	356949.6520	258531.6100	667.827	BM NAIL IN PPOL 2124-35L16
101020	316+85.22	37.891 RT	357524.8560	258534.3460	668.215	BM NAIL IN PPOL 2124-35L17



BENCHMARK TABLE						
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEV	DESCRIPTION
101021	329+65.98	36.391 RT	358805.7820	258535.7230	671.687	BM NAIL IN PPOL 2124-35W15
101022	332+98.22	36.328 RT	359138.0230	258536.3000	671.023	BM NAIL IN PPOL 2124-35W16

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN SHEETS	SHEET 94	E



5

5

BENCHMARK TABLE						
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEV	DESCRIPTION
1005	339+88.48	37.266 RT	359828.2830	258538.5690	673.660	BM RR SPIKE IN WEST SIDE OF PPOL
923	340+35.01	-19.949 LT	359874.9190	258481.4430	673.430	CP 1" IRON PIPE W/CAP

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN SHEETS	SHEET 95	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050211-pn

PLOT DATE : 7/8/2022 7:53 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : PLOT SCALE : 1 IN:100 FT



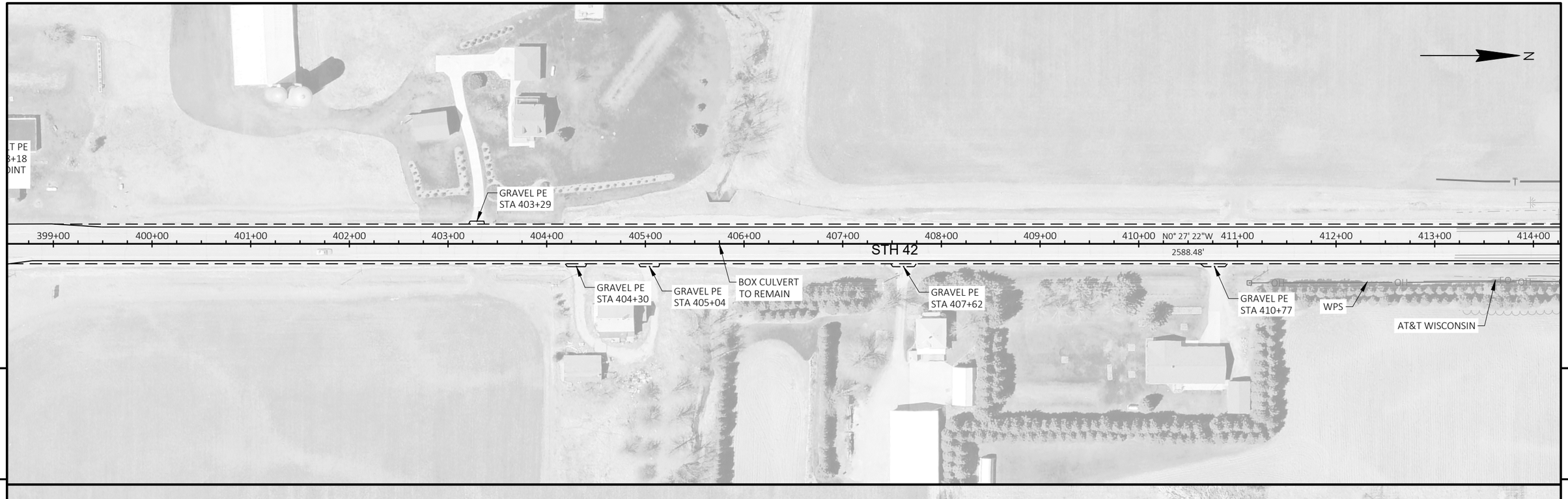
BENCHMARK TABLE						
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEV	DESCRIPTION
101023	383+02.59	40.101 RT	364142.4430	258543.9280	680.148	BM NAIL IN PPOL 2124 26W18
101024	386+47.95	40.395 RT	364487.8000	258544.3710	679.111	BM NAIL IN PPOL 2124 26W19
101025	393+31.65	39.860 RT	365171.5020	258544.1310	676.474	BM NAIL IN PPOL 2124 26W21
101026	396+31.64	39.693 RT	365471.4960	258544.0930	676.660	BM NAIL IN PPOL 2124 26W22

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN SHEETS	SHEET 96	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050212-pn

PLOT DATE : 7/8/2022 7:53 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : PLOT SCALE : 1 IN:100 FT

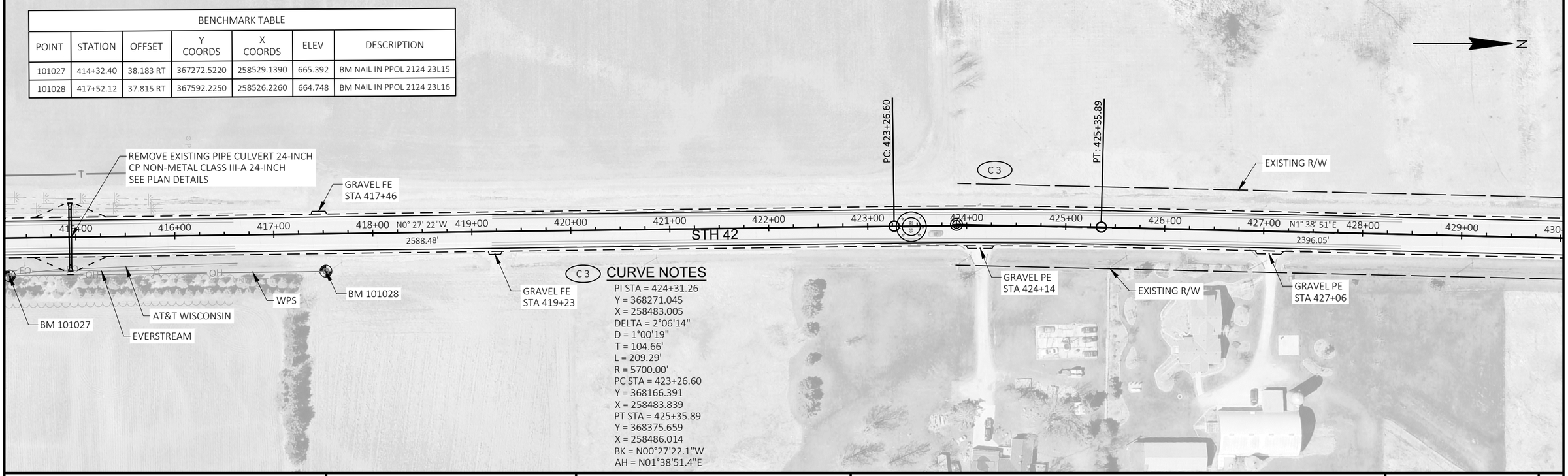
WISDOT/CADDS SHEET 44



5

5

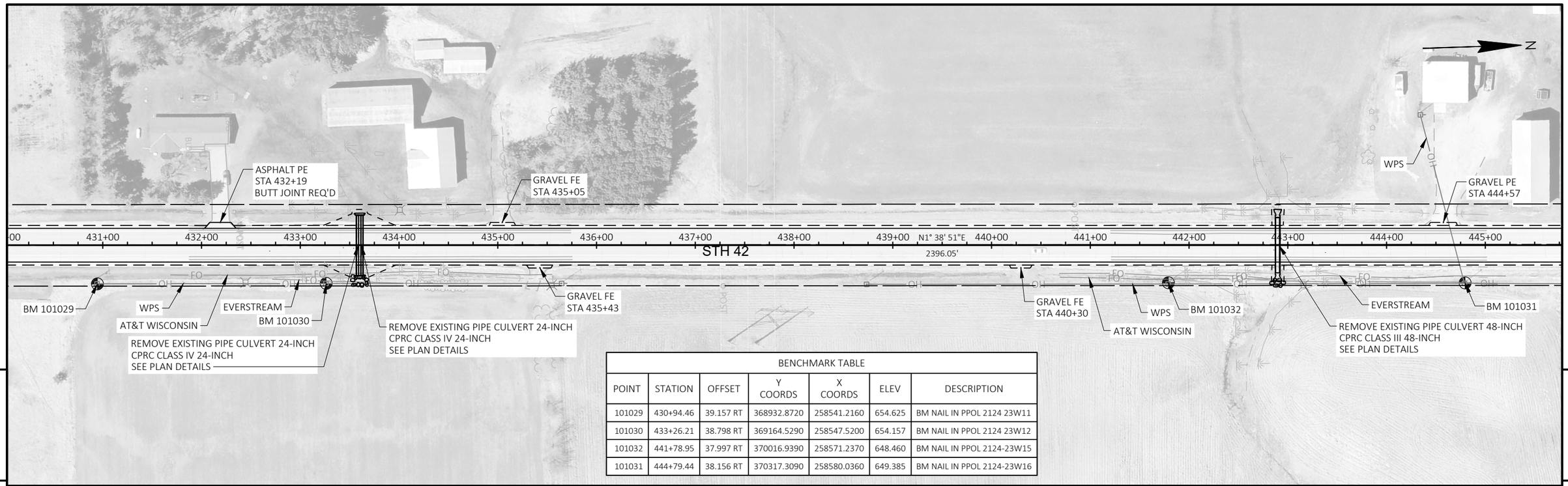
BENCHMARK TABLE						
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEV	DESCRIPTION
101027	414+32.40	38.183 RT	367272.5220	258529.1390	665.392	BM NAIL IN PPOL 2124 23L15
101028	417+52.12	37.815 RT	367592.2250	258526.2260	664.748	BM NAIL IN PPOL 2124 23L16



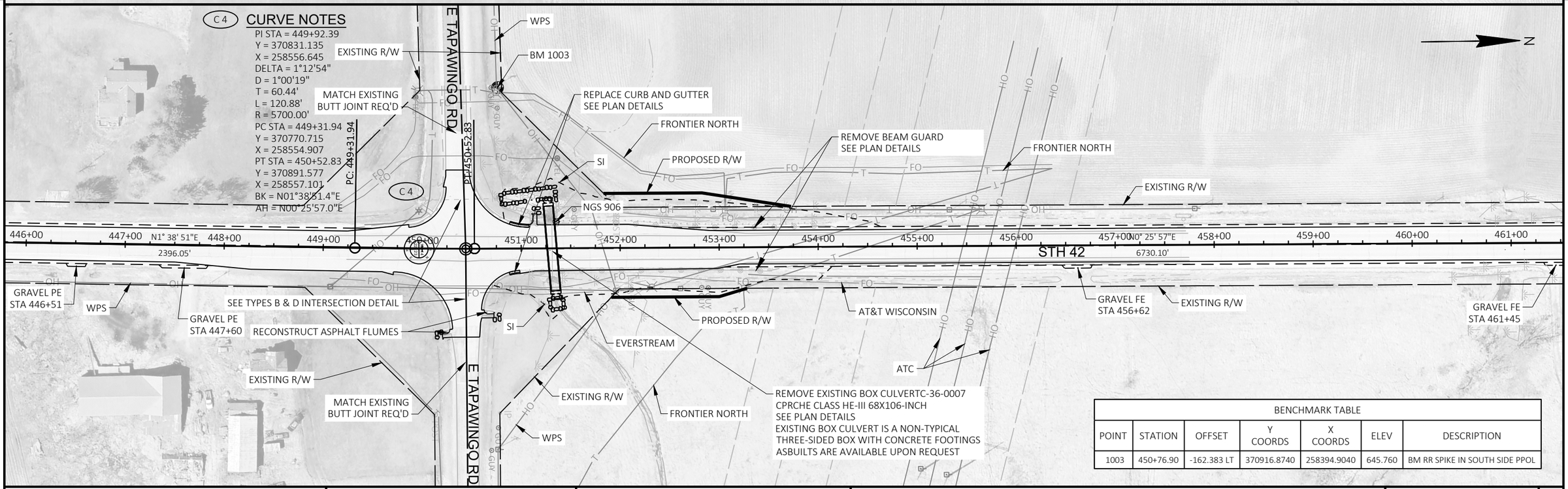
C 3 **CURVE NOTES**

PI STA = 424+31.26
Y = 368271.045
X = 258483.005
DELTA = 2°06'14"
D = 1°00'19"
T = 104.66'
L = 209.29'
R = 5700.00'
PC STA = 423+26.60
Y = 368166.391
X = 258483.839
PT STA = 425+35.89
Y = 368375.659
X = 258486.014
BK = N00°27'22.1"W
AH = N01°38'51.4"E

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN SHEETS	SHEET 97	E

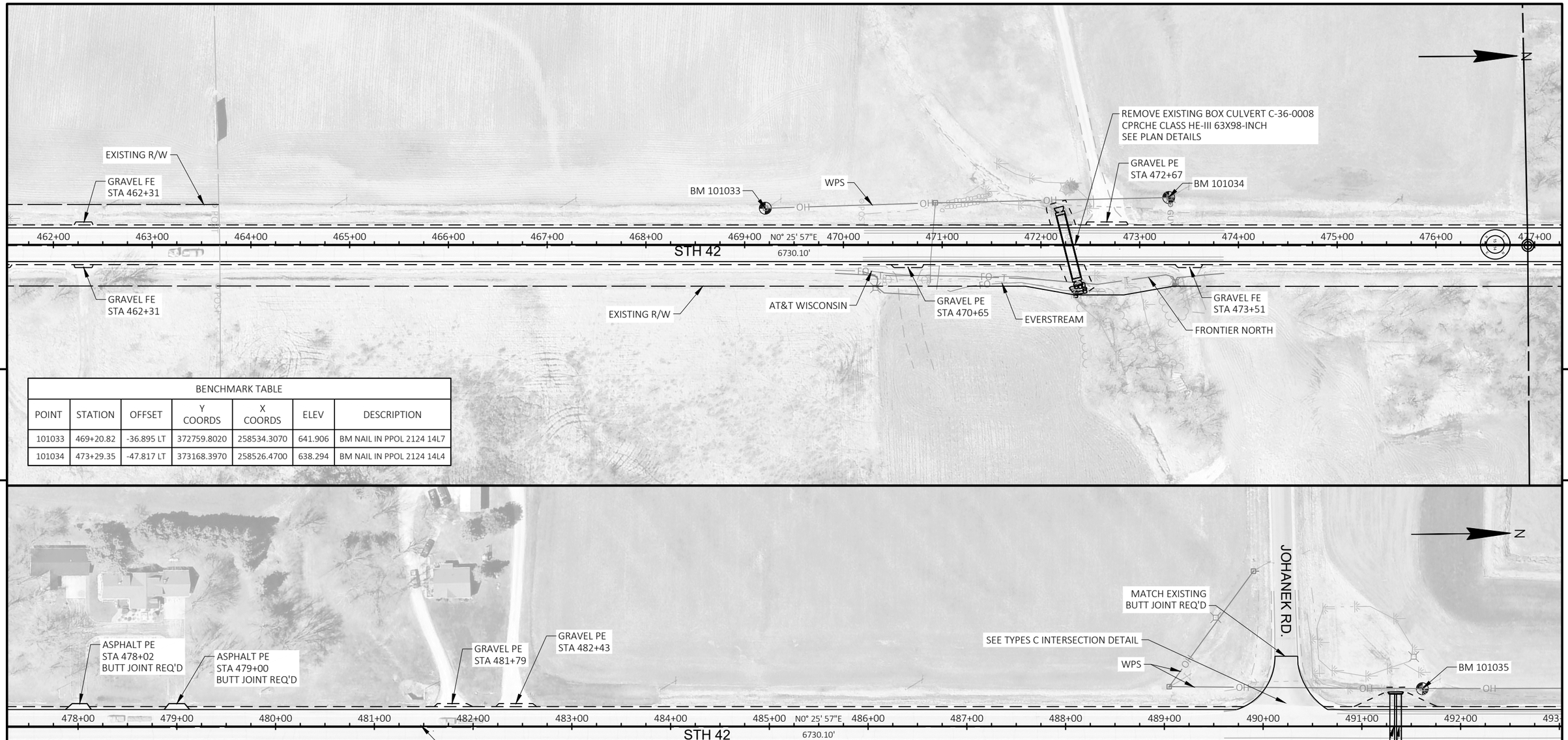


BENCHMARK TABLE						
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEV	DESCRIPTION
101029	430+94.46	39.157 RT	368932.8720	258541.2160	654.625	BM NAIL IN PPOL 2124 23W11
101030	433+26.21	38.798 RT	369164.5290	258547.5200	654.157	BM NAIL IN PPOL 2124 23W12
101032	441+78.95	37.997 RT	370016.9390	258571.2370	648.460	BM NAIL IN PPOL 2124-23W15
101031	444+79.44	38.156 RT	370317.3090	258580.0360	649.385	BM NAIL IN PPOL 2124-23W16



BENCHMARK TABLE						
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEV	DESCRIPTION
1003	450+76.90	-162.383 LT	370916.8740	258394.9040	645.760	BM RR SPIKE IN SOUTH SIDE PPOL

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN SHEETS	SHEET 98	E



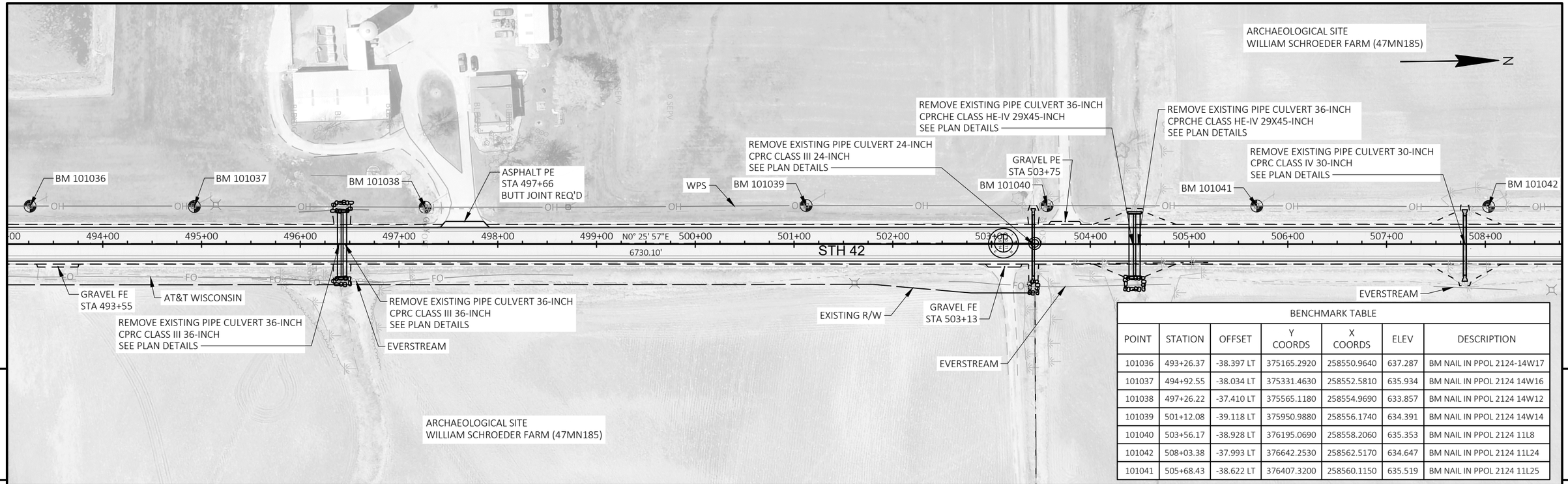
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BENCHMARK TABLE						
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEV	DESCRIPTION
101033	469+20.82	-36.895 LT	372759.8020	258534.3070	641.906	BM NAIL IN PPOL 2124 14L7
101034	473+29.35	-47.817 LT	373168.3970	258526.4700	638.294	BM NAIL IN PPOL 2124 14L4

5

BENCHMARK TABLE						
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEV	DESCRIPTION
907	485+59.71	43.580 RT	374398.0320	258627.1510	640.100	NGS BRONZE DISK SOUTHWEST OF SMALL WOODEN STRUCTURE
101035	491+61.16	-38.104 LT	375000.0850	258550.0100	633.684	BM NAIL IN PPOL 2124-14W11

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN SHEETS	SHEET 99	E



BENCHMARK TABLE						
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEV	DESCRIPTION
101036	493+26.37	-38.397 LT	375165.2920	258550.9640	637.287	BM NAIL IN PPOL 2124-14W17
101037	494+92.55	-38.034 LT	375331.4630	258552.5810	635.934	BM NAIL IN PPOL 2124 14W16
101038	497+26.22	-37.410 LT	375565.1180	258554.9690	633.857	BM NAIL IN PPOL 2124 14W12
101039	501+12.08	-39.118 LT	375950.9880	258556.1740	634.391	BM NAIL IN PPOL 2124 14W14
101040	503+56.17	-38.928 LT	376195.0690	258558.2060	635.353	BM NAIL IN PPOL 2124 11L8
101042	508+03.38	-37.993 LT	376642.2530	258562.5170	634.647	BM NAIL IN PPOL 2124 11L24
101041	505+68.43	-38.622 LT	376407.3200	258560.1150	635.519	BM NAIL IN PPOL 2124 11L25

BENCHMARK TABLE						
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEV	DESCRIPTION
101043	510+44.75	-37.696 LT	376883.6200	258564.6360	636.224	BM NAIL IN PPOL 2124 11L23
101044	512+19.98	-37.588 LT	377058.8440	258566.0670	636.526	BM NAIL IN PPOL 2124 11L35
101045	512+24.60	32.118 RT	377062.9350	258635.8060	635.386	BM NAIL IN PPOL 2124 11L36
101046	522+86.21	-36.837 LT	378125.0370	258574.9040	644.289	BM NAIL IN PPOL 2124 11L4

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN SHEETS	SHEET 100	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050216-pn

PLOT DATE : 10/20/2022 10:04 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

REMOVE EXISTING PIPE CULVERT 36-INCH
CPRC CLASS III 36-INCH
SEE PLAN DETAILS

REMOVE EXISTING PIPE CULVERT 18-INCH
CPRC CLASS IV 30-INCH
SEE PLAN DETAILS

SEE TYPES C INTERSECTION DETAIL

LEHRMAN RD.

REMOVE EXISTING PIPE CULVERT 36-INCH
CPRC CLASS III 36-INCH
SEE PLAN DETAILS

REMOVE EXISTING PIPE CULVERT 30-INCH
CPRC CLASS IV 24-INCH
SEE PLAN DETAILS

BM 101047 | WPS | BM 101048 | BM 101049 | BM 1002

GRAVEL FE STA 533+07

EXISTING R/W

525+00 526+00 527+00 528+00 529+00 530+00 531+00 532+00 533+00 534+00 535+00 536+00 537+00 538+00 539+00 540+00

N0° 26' 12"E 2394.83'

STH 42

AT&T WISCONSIN | EVERSTREAM | FRONTIER NORTH

REMOVE EXISTING PIPE CULVERT 36-INCH
CPRC CLASS III 36-INCH
SEE PLAN DETAILS

REMOVE EXISTING PIPE CULVERT 36-INCH
CPRC CLASS III 36-INCH
SEE PLAN DETAILS

GRAVEL PE STA 532+22 | GRAVEL PE STA 532+84 | EXISTING R/W | GRAVEL PE STA 536+53

AT&T WISCONSIN

BENCHMARK TABLE						
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEV	DESCRIPTION
101047	525+34.03	-36.044 LT	378372.8480	258577.5860	645.188	BM NAIL IN PPOL 2124 11L3
101048	529+36.71	-39.522 LT	378775.5420	258577.1770	645.221	BM NAIL IN PPOL 2124 11L1
101049	531+50.10	-35.848 LT	378988.8940	258582.4780	644.298	BM NAIL IN PPOL 2124 11L11
1002	539+17.07	-34.674 LT	379755.8350	258589.4980	646.760	BM RR SPIKE IN EAST SIDE OF PPOL

EXISTING R/W | WPS | SI | PROPOSED R/W | GRAVEL PE STA 545+28 | GRAVEL PE STA 546+17 | BOX CULVERT TO REMAIN

MATCH EXISTING BUTT JOINT REQ'D

NERO RD.

SEE TYPES C INTERSECTION DETAIL

C 5

EXISTING HIGHWAY EASEMENT

PROPOSED R/W

PC 541+77.76

544+00 545+00 546+00 547+00 548+00 549+00 550+00 551+00 552+00 553+00 554+00 555+00 556+00

STH 42

GRAVEL FE STA 541+60

N0° 26' 12"E 2394.83'

541+00 542+00 547+00

NGS 908

GRAVEL FE STA 545+53

GRAVEL FE STA 550+37

FRONTIER NORTH

EXISTING R/W

SI | AT&T WISCONSIN

REMOVE BOX CULVERT C-36-0010
CPRCHE CLASS HE-III 68X106-INCH
SEE PLAN DETAILS
EXISTING BOX CULVERT IS A NON-TYPICAL
THREE-SIDED BOX WITH CONCRETE FOOTINGS
ASBUILTS ARE AVAILABLE UPON REQUEST

GRAVEL PE STA 541+73

WPS | PROPOSED R/W | FRONTIER NORTH

C 5 **CURVE NOTES**

PI STA = 549+99.96
Y = 380838.427
X = 258632.426
DELTA = 46°34'52"
D = 2°59'59"
T = 822.20'
L = 1552.82'
R = 1910.00'
PC STA = 541+77.76
Y = 380016.248
X = 258626.159
PT STA = 557+30.58
Y = 381398.981
X = 259233.923
BK = N00°26'12.3"E
AH = N47°01'04.4"E

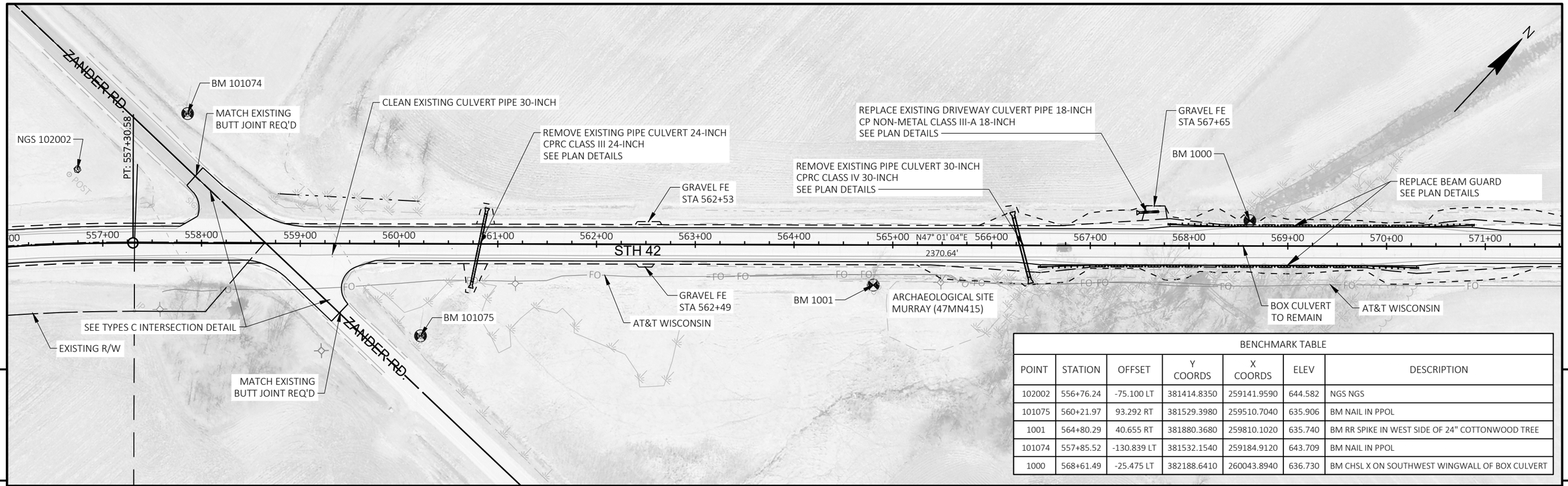
STH 42 CURVE C5			
STA	EVENT	LT	RT
538+63	END NORMAL CROWN	-2.0%	-2.0%
540+15	LEVEL CROWN	0.0%	-2.0%
542+75	BEGIN FULL SUPER	6.0%	-6.0%
556+35	END FULL SUPER	6.0%	-6.0%
558+95	LEVEL CROWN	0.0%	-2.0%
560+60	BEGIN NORMAL CROWN	-2.0%	-2.0%

BENCHMARK TABLE						
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEV	DESCRIPTION
908	547+50.05	31.699 RT	380569.7680	258745.7680	644.400	NGS BRONZE DISK SOUTHEAST WINGWALL OF C-36-0011

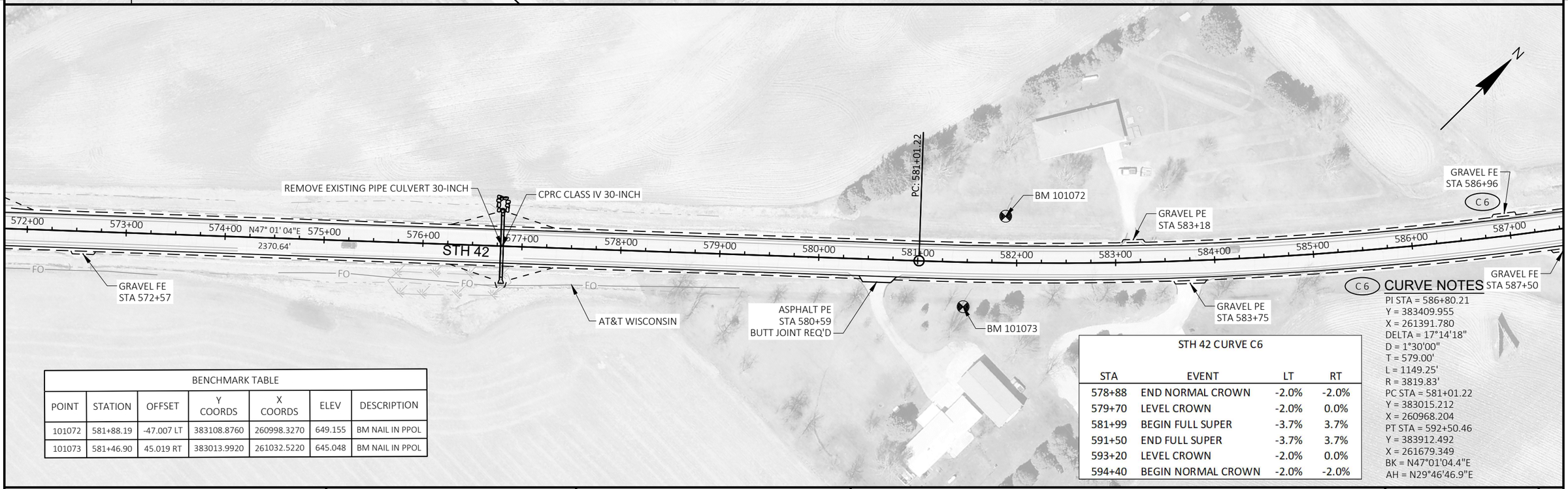
PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN SHEETS	SHEET 101	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050217-pn

PLOT DATE : 7/8/2022 7:55 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : PLOT SCALE : 1 IN:100 FT



BENCHMARK TABLE						
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEV	DESCRIPTION
102002	556+76.24	-75.100 LT	381414.8350	259141.9590	644.582	NGS NGS
101075	560+21.97	93.292 RT	381529.3980	259510.7040	635.906	BM NAIL IN PPOL
1001	564+80.29	40.655 RT	381880.3680	259810.1020	635.740	BM RR SPIKE IN WEST SIDE OF 24" COTTONWOOD TREE
101074	557+85.52	-130.839 LT	381532.1540	259184.9120	643.709	BM NAIL IN PPOL
1000	568+61.49	-25.475 LT	382188.6410	260043.8940	636.730	BM CHSL X ON SOUTHWEST WINGWALL OF BOX CULVERT



BENCHMARK TABLE						
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEV	DESCRIPTION
101072	581+88.19	-47.007 LT	383108.8760	260998.3270	649.155	BM NAIL IN PPOL
101073	581+46.90	45.019 RT	383013.9920	261032.5220	645.048	BM NAIL IN PPOL

STH 42 CURVE C6

STA	EVENT	LT	RT
578+88	END NORMAL CROWN	-2.0%	-2.0%
579+70	LEVEL CROWN	-2.0%	0.0%
581+99	BEGIN FULL SUPER	-3.7%	3.7%
591+50	END FULL SUPER	-3.7%	3.7%
593+20	LEVEL CROWN	-2.0%	0.0%
594+40	BEGIN NORMAL CROWN	-2.0%	-2.0%

C 6 **CURVE NOTES**

PI STA = 586+80.21
Y = 383409.955
X = 261391.780
DELTA = 17°14'18"
D = 1°30'00"
T = 579.00'
L = 1149.25'
R = 3819.83'
PC STA = 581+01.22
Y = 383015.212
X = 260968.204
PT STA = 592+50.46
Y = 383912.492
X = 261679.349
BK = N47°01'04.4"E
AH = N29°46'46.9"E

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN SHEETS	SHEET 102	E

5

5

PT: 592+50.46

GRAVEL FE
STA 594+68

GRAVEL FE
STA 595+10

588+00 589+00 590+00 591+00 592+00 593+00 594+00 595+00 596+00 597+00 598+00 599+00 600+00 601+00 602+00 603+00

STH 42

N

REMOVE EXISTING PIPE CULVERT 36-INCH
CPRC CLASS IV 36-INCH
SEE PLAN DETAILS

REMOVE EXISTING PIPE CULVERT 36-INCH
CPRC CLASS IV 36-INCH
SEE PLAN DETAILS

GRAVEL FE
STA 609+61

END PROJECT
STA 612+63
MATCH EXISTING
BUTT JOINT REQ'D

604+00 605+00 606+00 607+00 608+00 609+00 610+00 611+00 612+00 613+00 614+00 615+00 616+00 617+00 618+00 619

N29° 46' 47"E
2800.18'

STH 42

FO

FO

FO

BM 101071

AT&T WISCONSIN

NGS 102001

MATCH EXISTING
BUTT JOINT REQ'D

SEE TYPES C INTERSECTION DETAIL

LAKESHORE RD.

BM

N

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN SHEETS	SHEET 103	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050219-pn

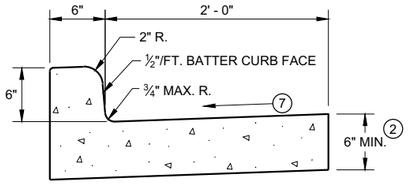
PLOT DATE : 7/8/2022 7:55 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

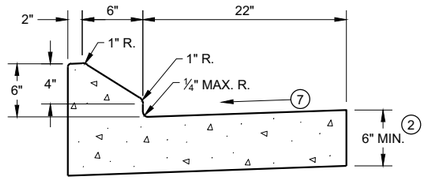
Standard Detail Drawing List

08D01-22A	CONCRETE CURB & GUTTER
08D01-22B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D04-06	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D22-01	DRIVEWAYS WITHOUT CURB & GUTTER RESURFACING PROJECTS RURAL
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F03-03	DETAILS FOR PIPE CATTLE PASS, CONCRETE ENDWALLS AND STEPS
08F04-08	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F10-01	CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH
08F10-02	CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH
11B02-02	CONCRETE MEDIAN NOSE
12A03-10	NAME PLATE (STRUCTURES)
13A10-02A	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02B	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02C	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02D	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A11-03A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-03B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13C19-03	HMA LONGITUDINAL JOINTS
14B42-07A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-08C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C07-15B	PAVEMENT MARKING WORDS
15C07-15C	PAVEMENT MARKING ARROWS
15C08-21A	LONGITUDINAL MARKING (MAINLINE)
15C08-21B	TEMPORARY LONGITUDINAL PAVEMENT MARKING
15C08-21C	PAVEMENT MARKING (TURN LANES)
15C08-21D	PAVEMENT MARKING (TURN LANES)
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-08	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C12-09A	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C35-05A	PAVEMENT MARKING (INTERSECTIONS)
15D51-01	TRAFFIC CONTROL, MOBILE OPERATIONS ON AN UNDIVIDED ROADWAY

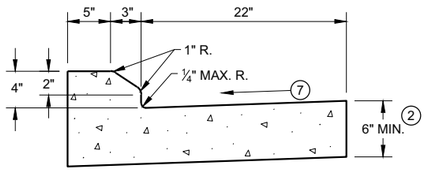
6



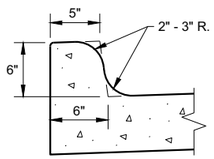
TYPES A (1) & D



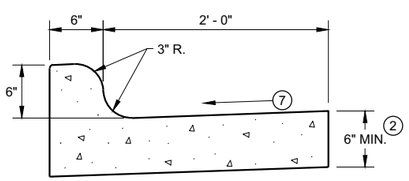
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

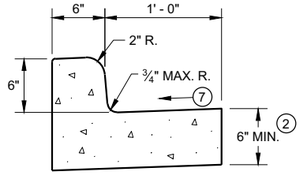


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



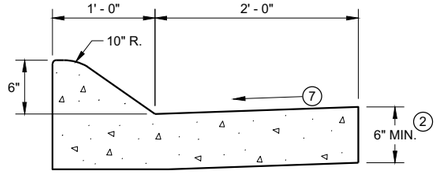
TYPES K (1) & L

CONCRETE CURB AND GUTTER 30"



TYPES A (1) & D

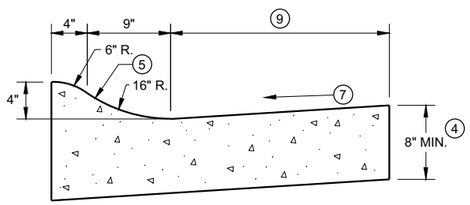
CONCRETE CURB AND GUTTER 18"



6" SLOPED CURB TYPES A (1) & D

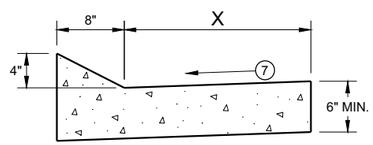
4" SLOPED CURB TYPES A (1) & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R (1) & T

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

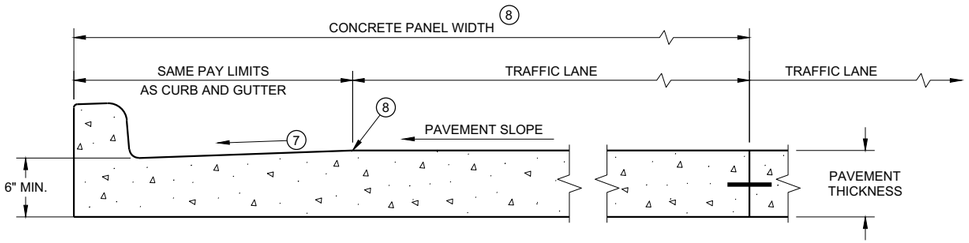


TYPES TBT & TBTT (1)

CONCRETE CURB AND GUTTER

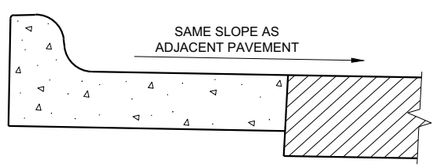
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT *
WITH INTEGRAL CURB AND GUTTER

* BIKE LANE IS NOT SHOWN



REVERSE SLOPE GUTTER (6)
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

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

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

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

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

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

(3) USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

(4) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

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

(6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

(7) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.

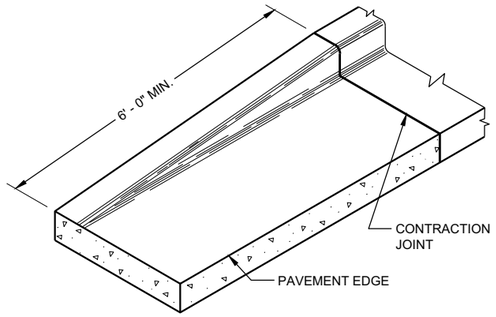
(8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

(9) CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE "R" AND "T" = 17 INCHES
CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE "R" AND "T" = 23 INCHES

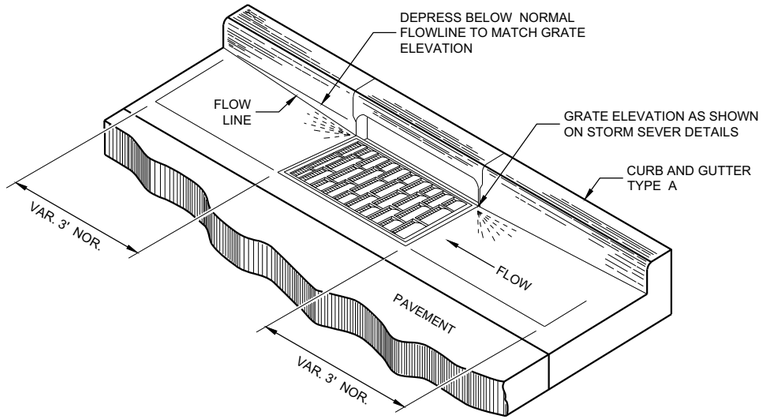
CONCRETE CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
SDD 08D01 - 22a



END SECTIONCURB AND GUTTER



DETAIL OF CURB AND GUTTER AT INLETS

(TYPICAL H INLET COVER SHOWN)

GENERAL NOTES

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

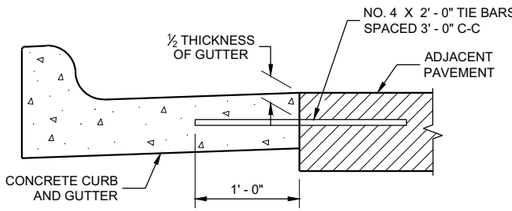
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

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

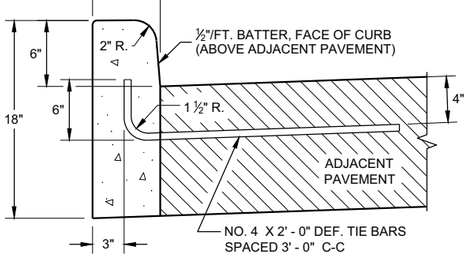
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

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

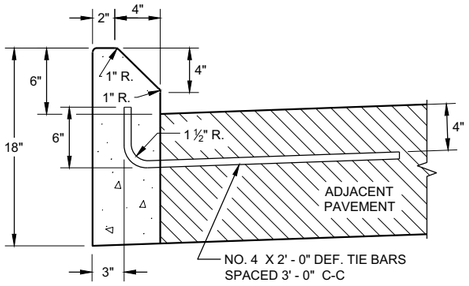
(9) REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.



TYPICAL TIE BAR LOCATION (1)

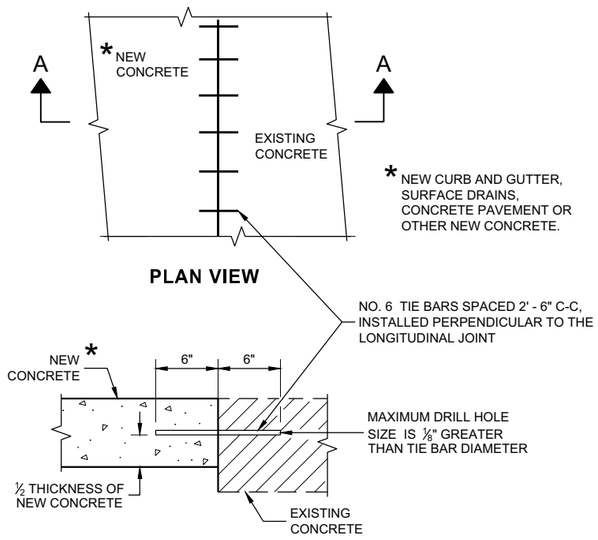


TYPES A (1) & D

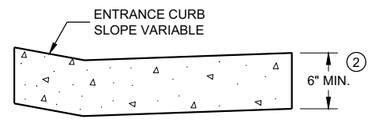


TYPES G (1) & J

CONCRETE CURB



TIE BARS DRILLED INTO EXISTING PAVEMENT



DRIVEWAY ENTRANCE CURB (9)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

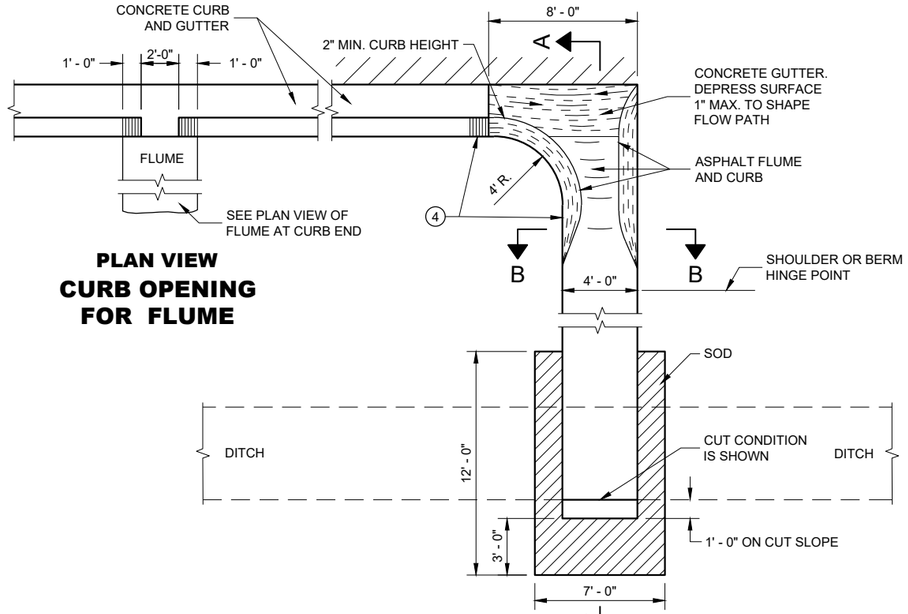
APPROVED
February 2021 — DATE
/S/ Rodnery Taylor — ROADWAY STANDARDS DEVE ENGINEER
FHWA

6

SDD 08D01 - 22b

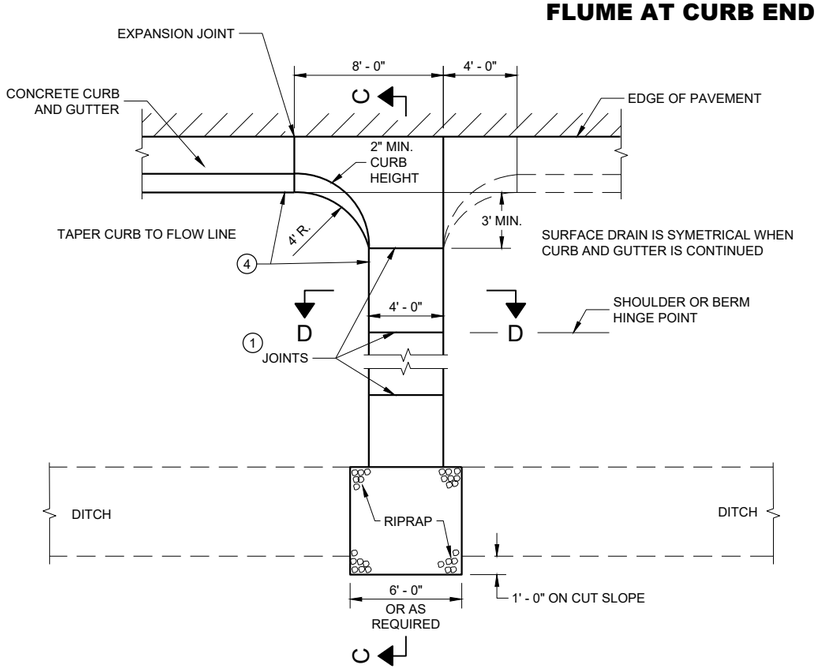
NOTE: TAPER CURB ENDS TO GUTTER IN 1' - 0"

ASPHALTIC FLUME



PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



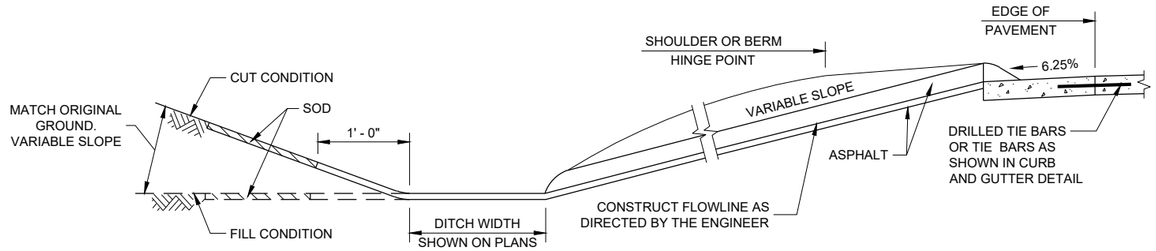
PLAN VIEW
CONCRETE SURFACE DRAIN

GENERAL NOTES

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

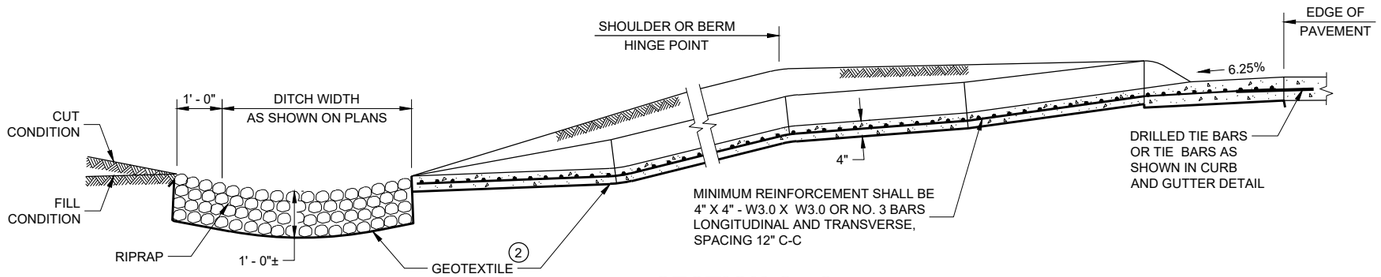
4" X 4" - W3.0 X W3.0 CONCRETE REINFORCEMENT SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

1. JOINTS SHALL BE ⅛" TO ¼" WIDE BY 1½" DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.
2. GEOTEXTILE TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.
3. CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED.
4. ANGLE OF FLUME IN RELATION TO BACK OF CURB TO BE CONSTRUCTED PER THE PLAN DETAILS OR AS DIRECTED BY THE ENGINEER. ANGLE OF FLUME MAY BE OTHER THAN 90 DEGREES AS SHOWN.

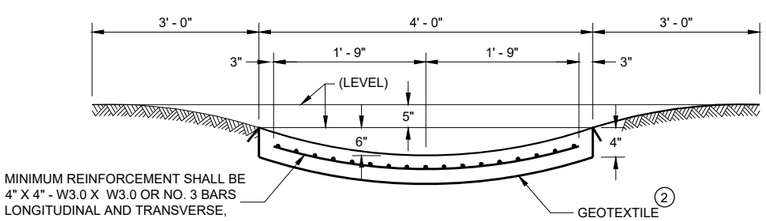


SECTION A - A

SECTION B - B



SECTION C - C



SECTION D - D

CONCRETE SURFACE DRAINS AND ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2021
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA

6

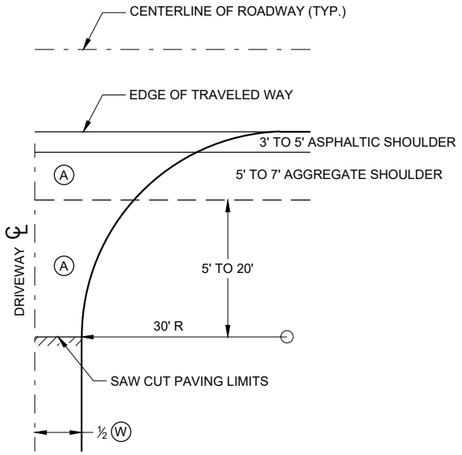
SDD 08D04 - 06

6

SDD 08D04 - 06

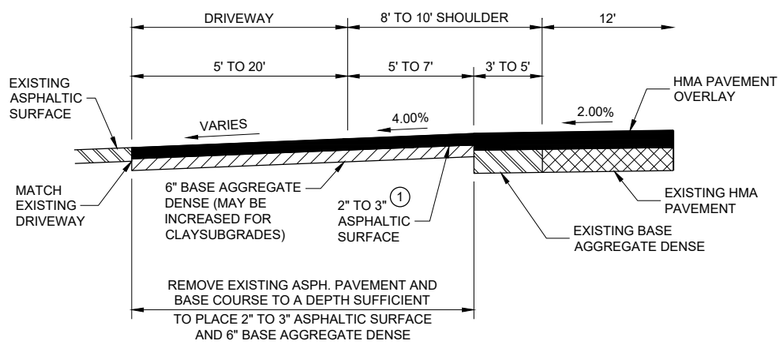
GENERAL NOTES

(1) DESIGN WILL DETERMINE FINAL DRIVEWAY ASPHALTIC THICKNESS BASED ON TYPE OF USAGE AND LOADINGS.



PLAN VIEW

HALF SECTION



PROFILE VIEW

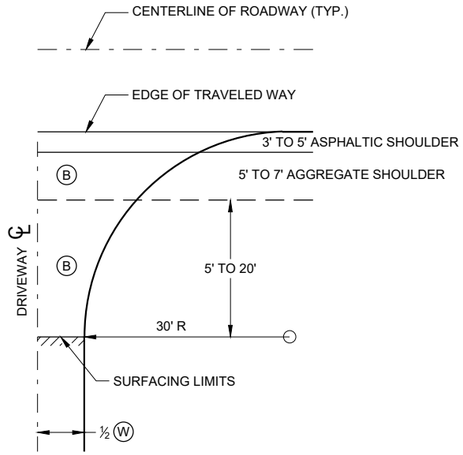
RURAL ENTRANCE WITH ASPHALTIC SURFACE

RESURFACING PROJECTS

(A) : PAID FOR AS ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES. (TON)

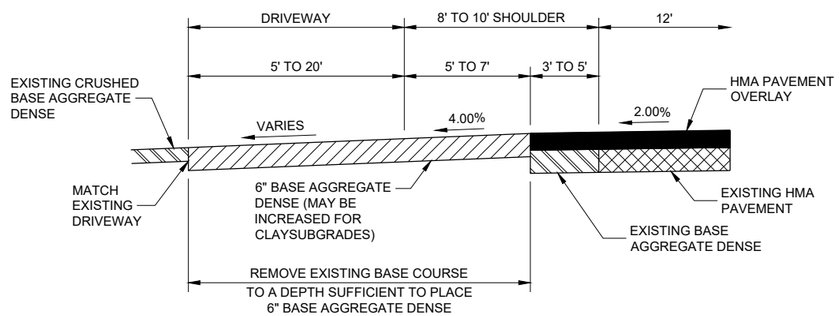
(B) : PAID FOR AS BASE AGGREGATE DENSE 1 ¼" (TON)

(W) : DRIVEWAY WIDTH 16' MIN. - 24' MAX.



PLAN VIEW

HALF SECTION



PROFILE VIEW

RURAL ENTRANCE WITH AGGREGATE SURFACE

6" BASE AGGREGATE DENSE

RESURFACING PROJECTS

DRIVEWAYS WITHOUT CURB AND GUTTER RESURFACING PROJECTS RURAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

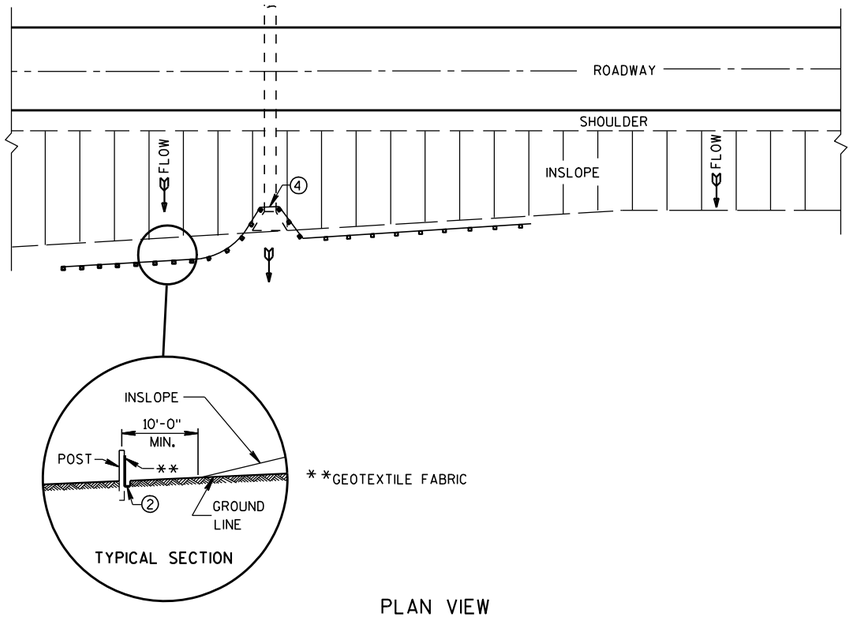
APPROVED
December 2016
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA

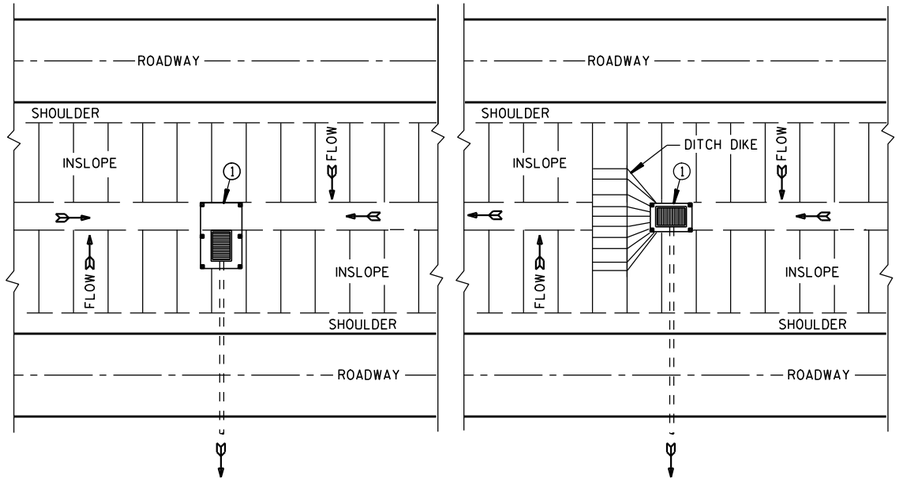
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SDD 08D22 - 01



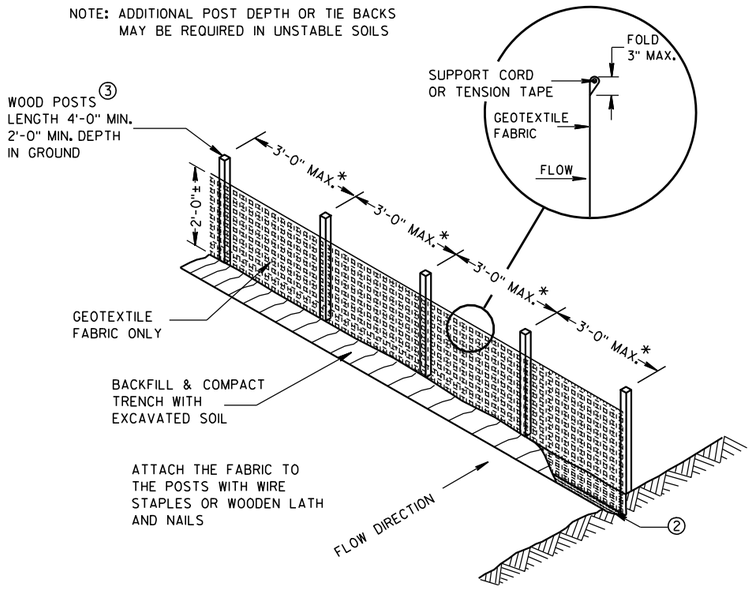
PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



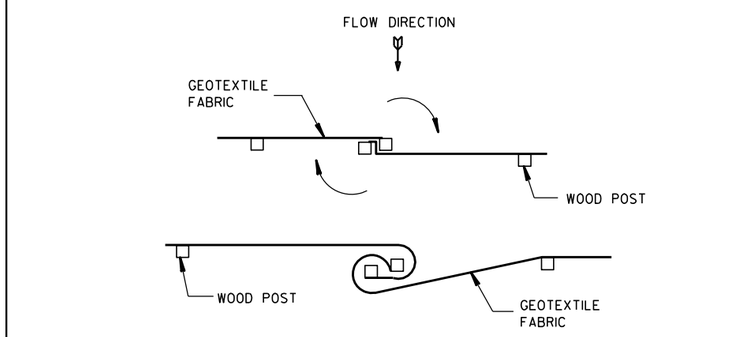
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

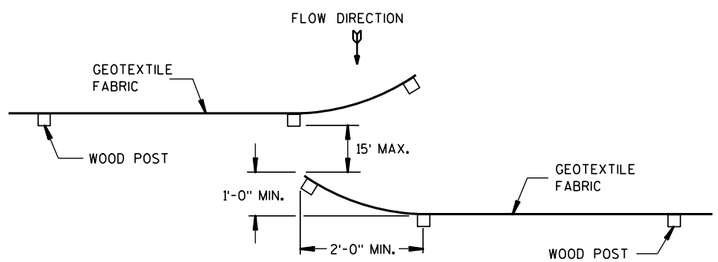


*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE



TWIST METHOD



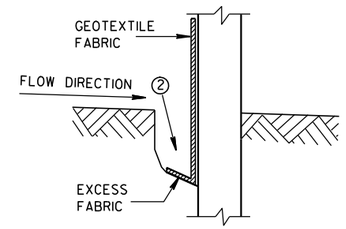
HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5

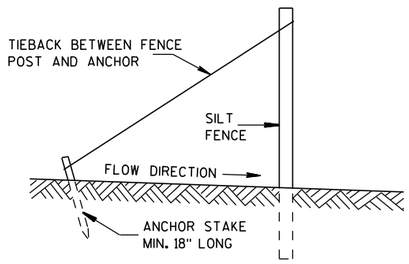
GENERAL NOTES

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 TIE BACK

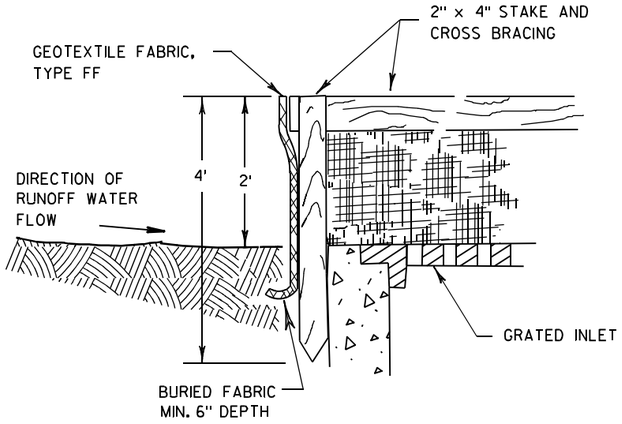
(WHEN REQUIRED BY THE ENGINEER)

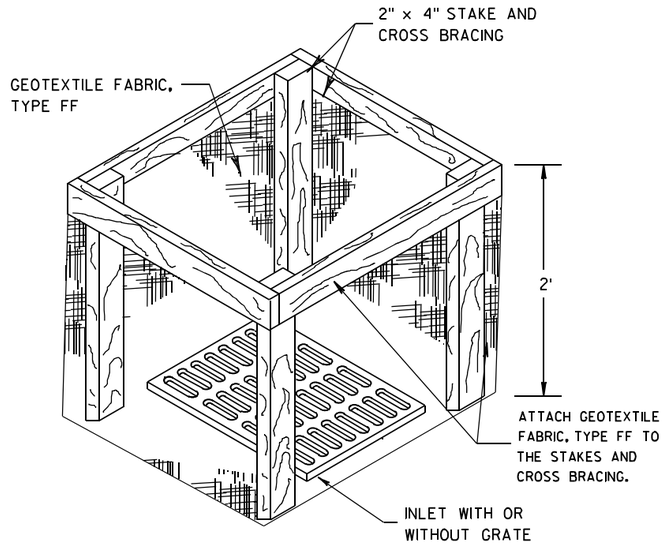
SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

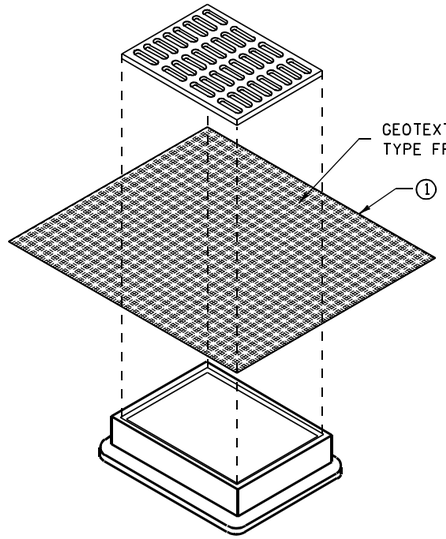
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 E 9-6



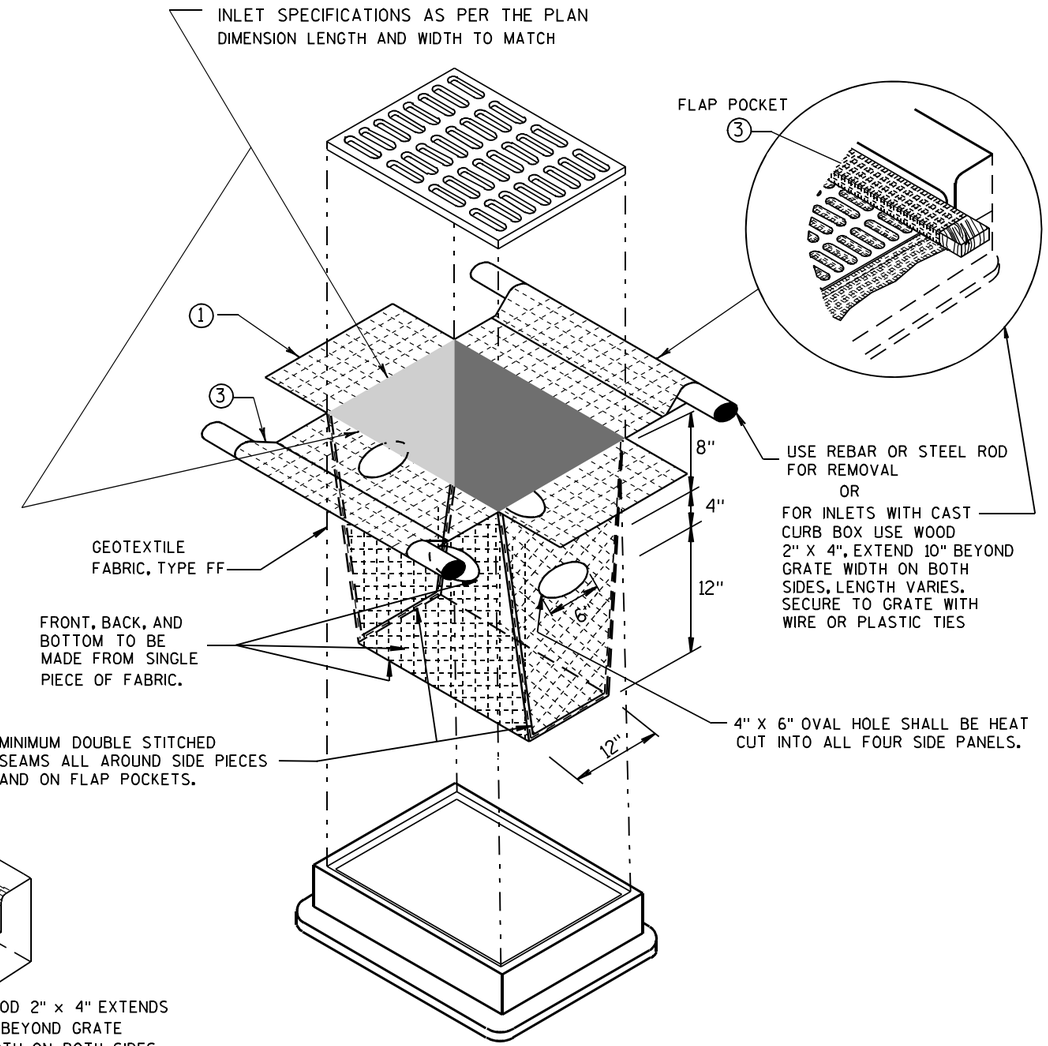


INLET PROTECTION, TYPE A



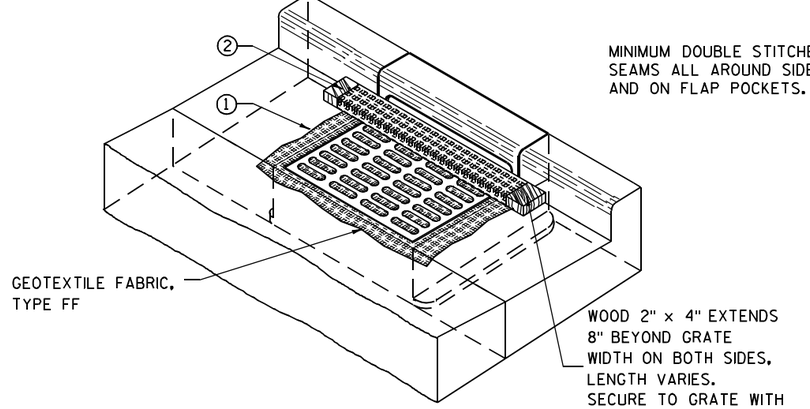
INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(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

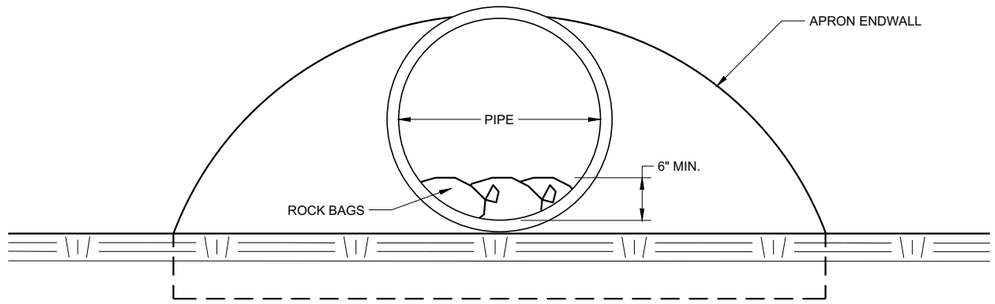
APPROVED

10/16/02
DATE

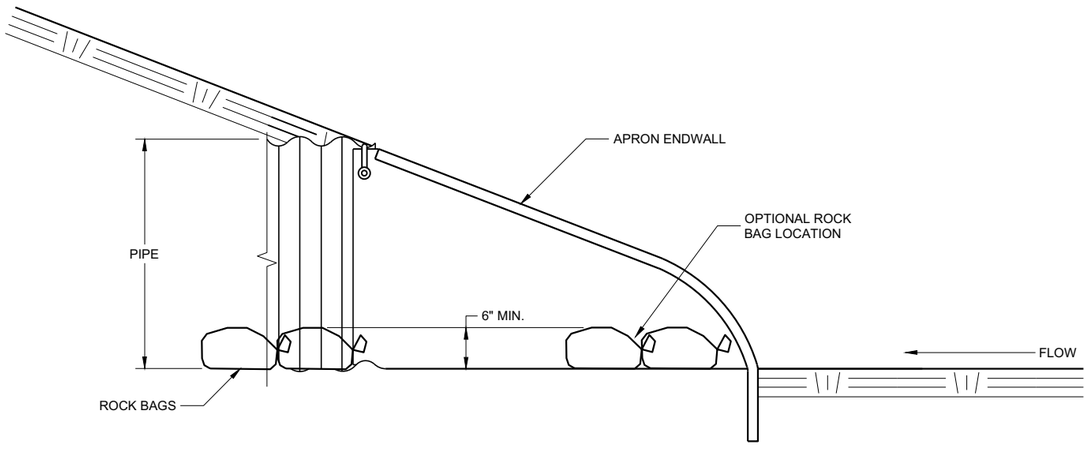
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

6
S.D.D. 8 E 10-2



END VIEW



SIDE VIEW

CULVERT PIPE CHECK

(INSTALL ON INLET END ONLY)

CULVERT PIPE CHECK	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2019 DATE	/S/ Daniel Schave EROSION CONTROL ENGI
FHWA	

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SDD 08E15 - 01

6

SDD 08E15 - 01

METAL APRON ENDWALLS

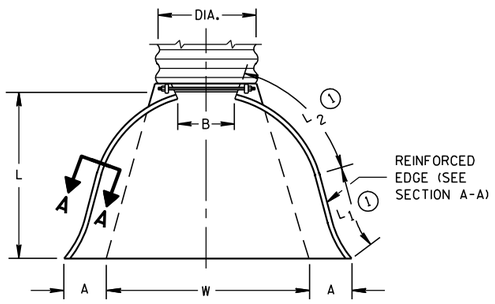
PIPE DIA. (IN.)	MIN. THICK. (Inches)		DIMENSIONS (Inches)							APPROX. SLOPE	BODY
	STEEL	ALUM.	A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")		
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 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

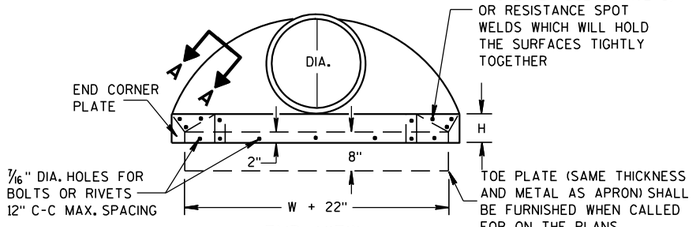
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches)							APPROX. SLOPE
	T	A	B	C	D	E	G	
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

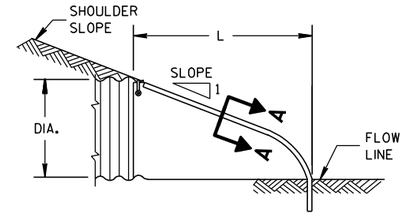
* MINIMUM
** MAXIMUM



PLAN VIEW

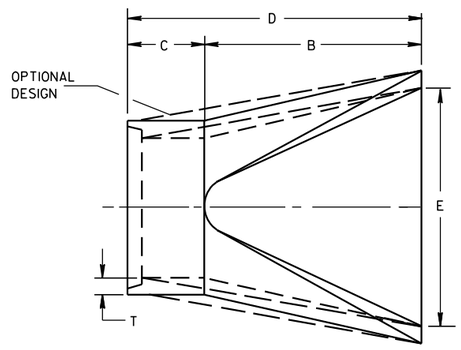


END VIEW

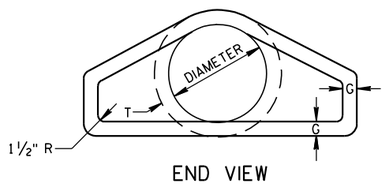


SIDE ELEVATION

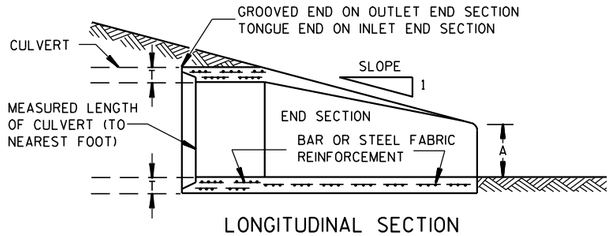
METAL ENDWALLS



PLAN

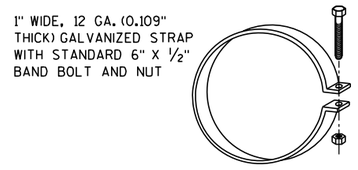


END VIEW



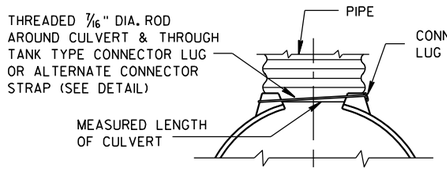
LONGITUDINAL SECTION

CONCRETE ENDWALLS

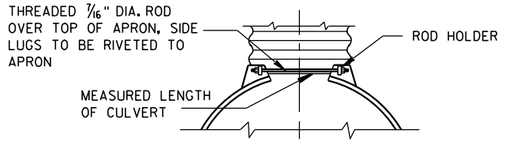


ALTERNATE FOR TYPE 1 CONNECTION

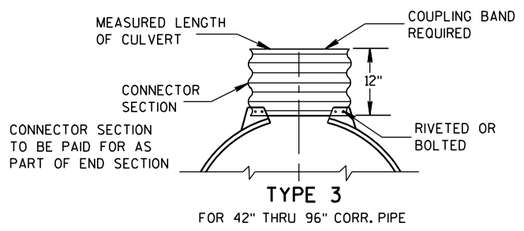
END SECTION CONNECTOR STRAP



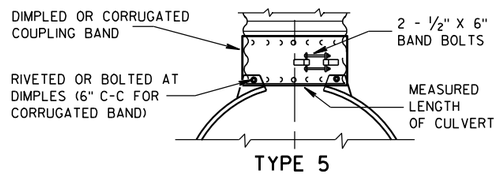
TYPE 1
FOR 12" THRU 24" CORR. PIPE



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

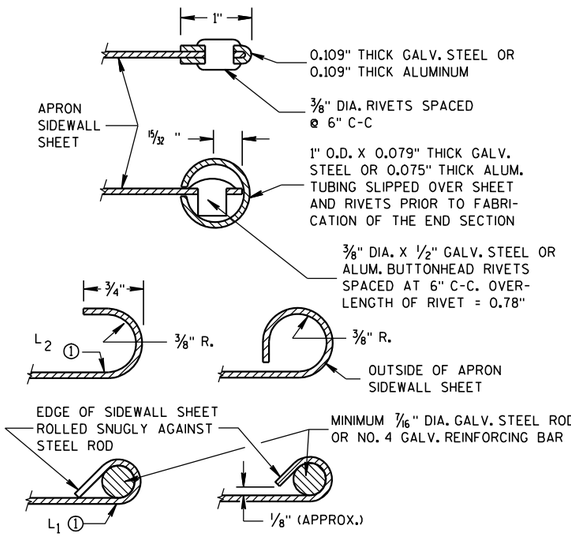
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

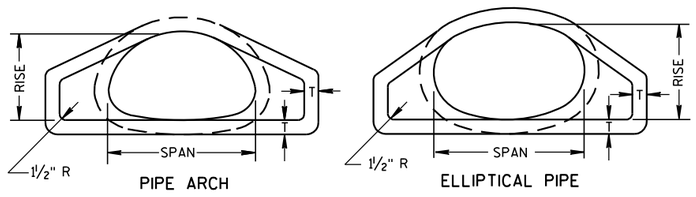
APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

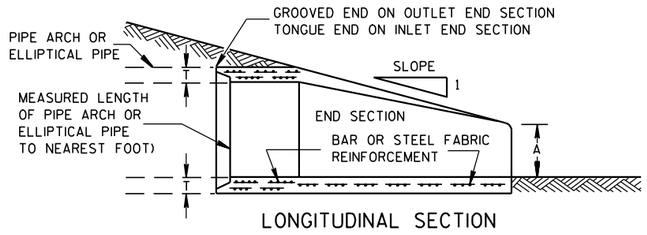
APPROVED
11/30/94 — DATE
/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

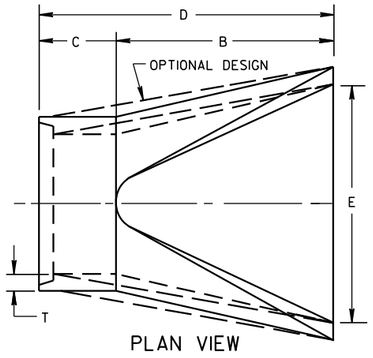
S.D.D. 8 F 1-11



END VIEW

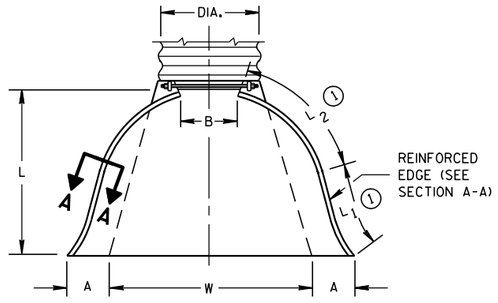


LONGITUDINAL SECTION

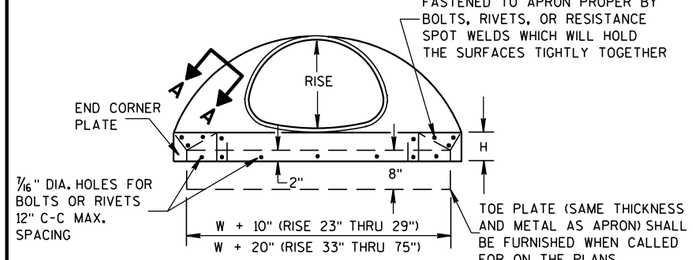


PLAN VIEW

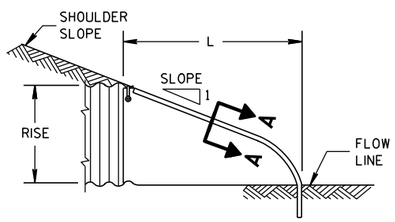
CONCRETE ENDWALLS



PLAN VIEW

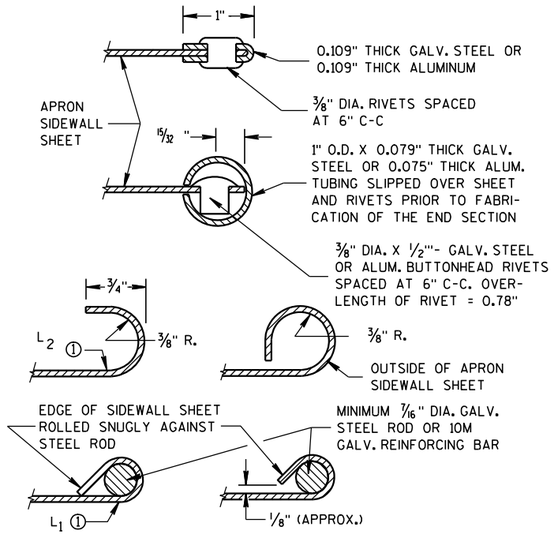


END VIEW



SIDE ELEVATION

METAL ENDWALLS



SECTION A-A

2- 2/3" X 1/2" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	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
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19 3/8	36	2½ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21¾	42	2½ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27½	48	2½ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37 5/8	60	2½ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45 3/8	75	2½ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	2½ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2½ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72¾	102	2¼ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82¼	114	2¼ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	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
48	53	41	.109	.105	18	26	12	63	24	72¾	90	2½ to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82¼	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1½ to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1½ to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1½ to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1½ to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1½ to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1½ to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL SEE GENERAL NOTES

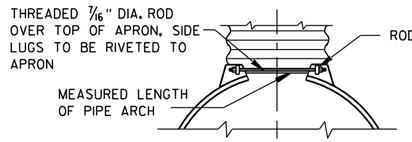
REINFORCED CONCRETE PIPE ARCH

EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	29	18	3	8½	39	33	72	48	3 to 1
30	36	22	3½	9½	50	46	96	60	3 to 1
36	44	27	4	11⅛	60	36	96	72	3 to 1
42	51	31	4½	15 13/16	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5½	25½	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	28½	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE

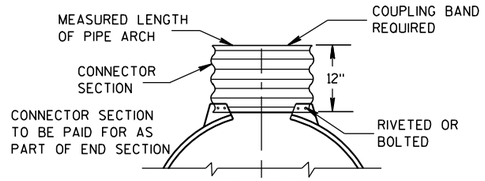
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

**NOMINAL SIZE



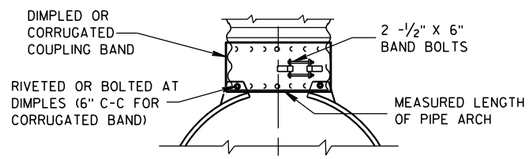
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR:

ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

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 APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH 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 ARCH 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 77" X 52" THROUGH 112" X 75" 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 ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/94 — DATE

/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER

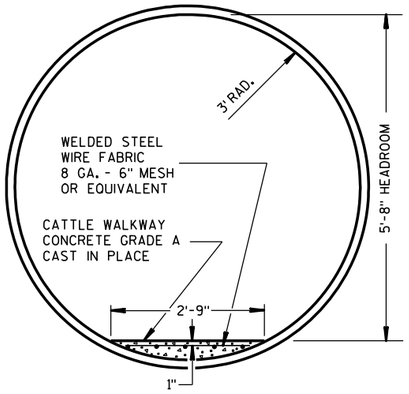
FHWA

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S.D.D. 8 F 2-1

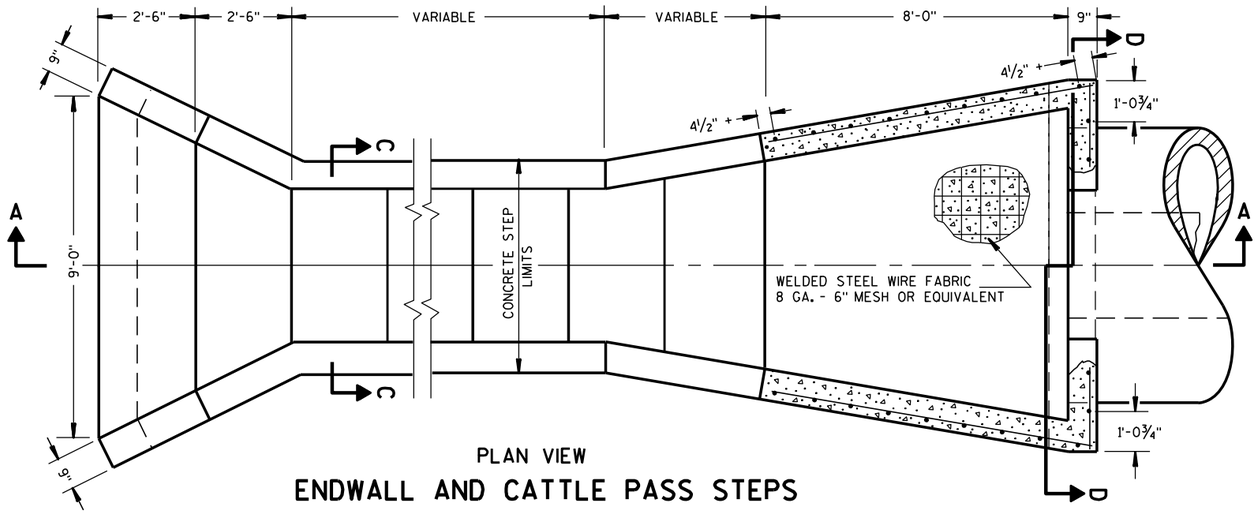
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S.D.D. 8 F 2-1



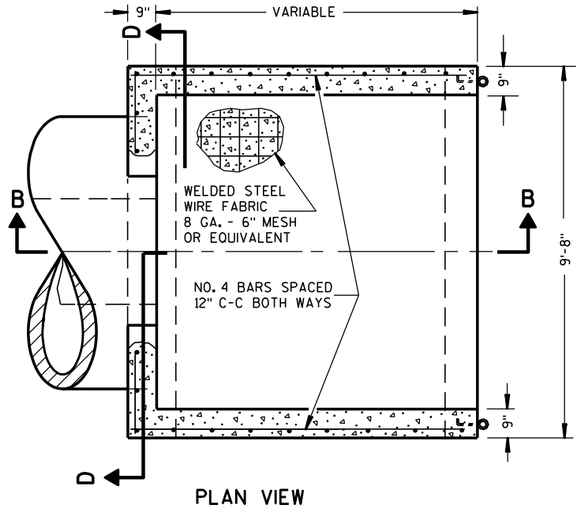
CROSS SECTION

CORRUGATED METAL PIPE CATTLE PASS



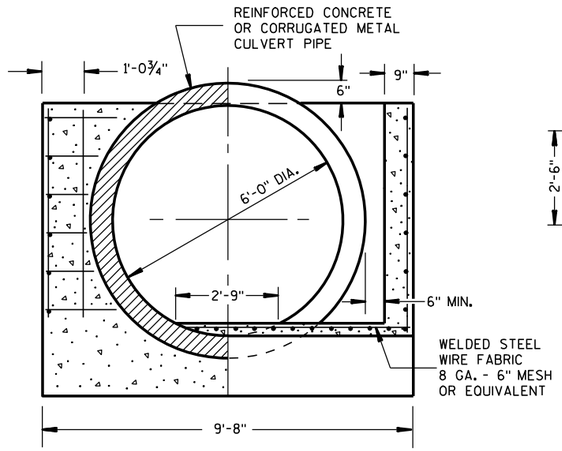
PLAN VIEW

ENDWALL AND CATTLE PASS STEPS

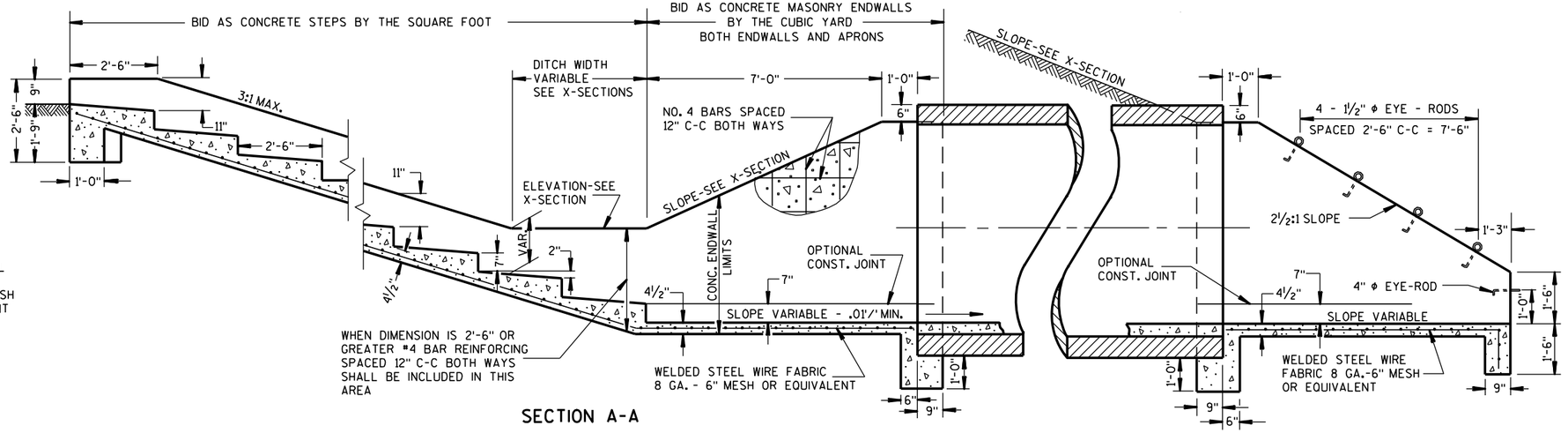


PLAN VIEW

ENDWALL FOR CATTLE PASS

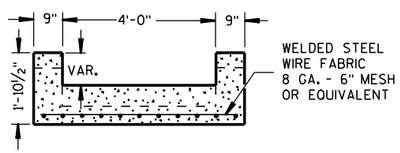


SECTION D-D

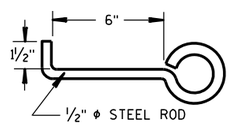


SECTION A-A

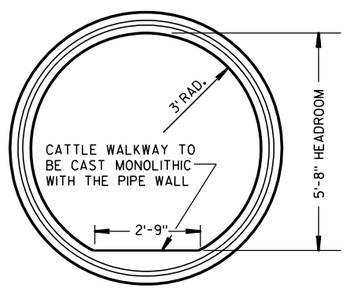
SECTION B-B



SECTION C-C



EYE-ROD ANCHOR



END VIEW

REINFORCED CONCRETE PIPE CATTLE PASS

GENERAL NOTES

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

ALL STEEL REINFORCEMENT IN ENDWALLS AND CATTLE PASS STEPS SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE NOTED.

ALL STEEL REINFORCEMENT OR FABRIC USED AS SHOWN ABOVE SHALL BE INCIDENTAL TO THE BID ITEM OF WHICH IT IS AN INTEGRAL PART.

EYE-RODS FOR FENCE CONNECTIONS SHALL BE PROVIDED BY THE CONTRACTOR AS AN INCIDENTAL TO THE BID ITEM OF CONCRETE MASONRY, ENDWALLS AND SHALL BE GALVANIZED.

CONCRETE USED FOR THE CATTLE WALKWAY WITHIN THE PIPE SHALL BE INCIDENTAL TO THE BID ITEM OF PIPE CATTLE PASS.

DETAILS FOR PIPE CATTLE PASS, CONCRETE ENDWALL AND STEPS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/6/75
DATE

/S/ Harold Fiedler
STATE DESIGN ENGINE 114

HWYS

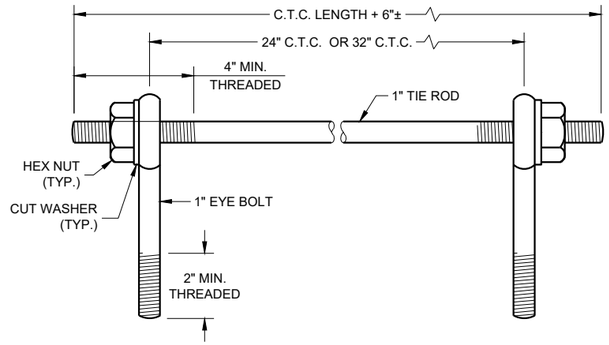
FHWA

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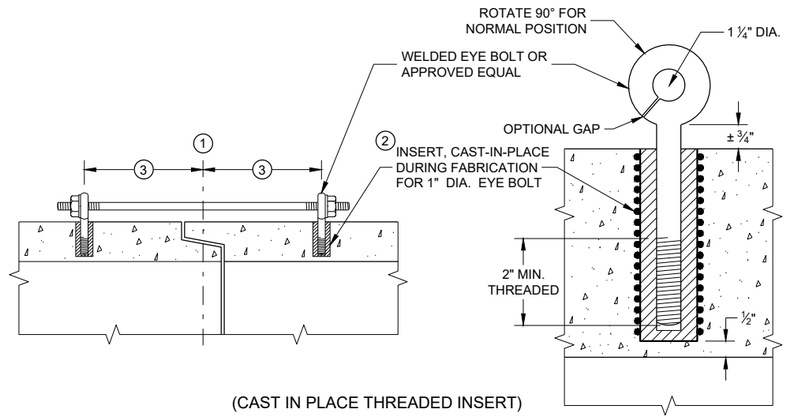
S.D.D. 8 F 3-3

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S.D.D. 8 F 3-3



EYE BOLTS AND TIE ROD



(CAST IN PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

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

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

(1) CENTER LINE OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

(2) THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

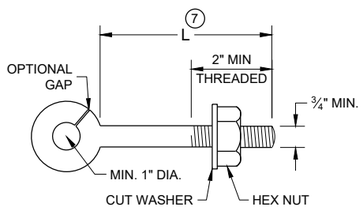
(3) HOLES SHALL BE CAST-IN-PLACE OR DRILLED PER THE APPLICABLE DETAIL, AND EQUAL DISTANCE FROM THE CENTERLINE OF THE JOINT.

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

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

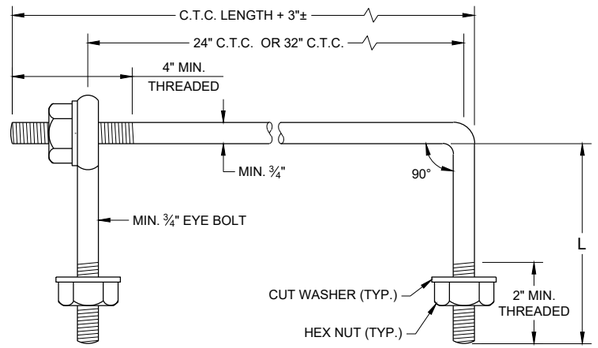
(6) LENGTH ADEQUATE TO EXTEND TO WITHIN ½ INCH OF THE INNER SURFACE OF THE PIPE.

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

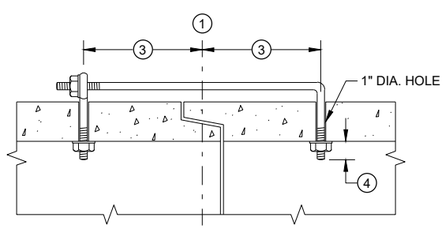


EYE BOLT (7)

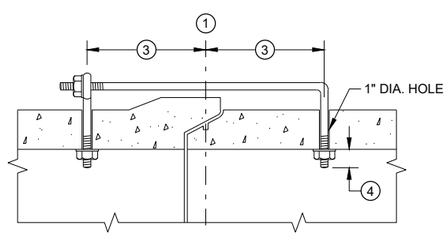
NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" OR 38" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD



(TONGUE AND GROOVE PIPE)



(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

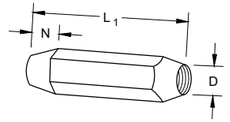
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

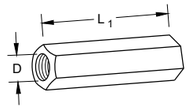
ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12 - 60	⅝	⅝	5	½
66 - 84	¾	¾	5	½
90 - 144	1	1	7	1 7/16

DIMENSIONS SHOWN ARE IN INCHES



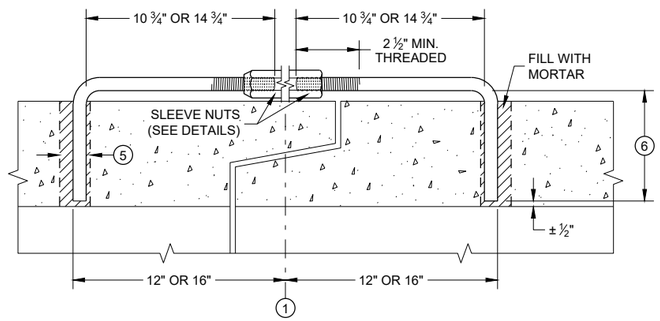
TAPERED



PLAIN

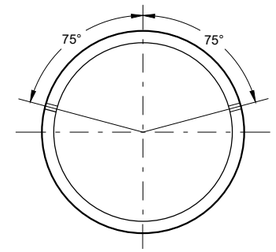
RIGHT AND LEFT THREADS

SLEEVE NUTS



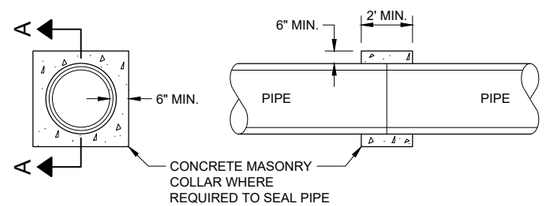
LONGITUDINAL SECTION

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A - A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

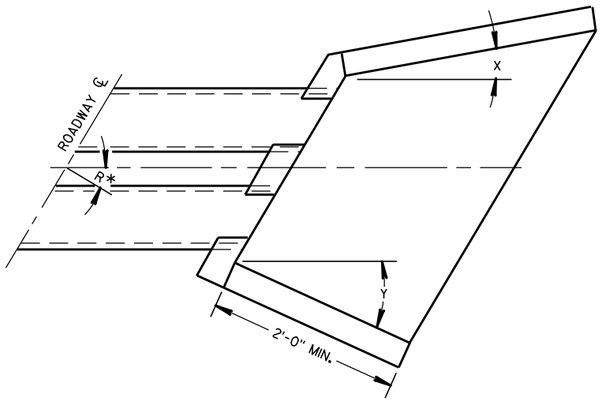
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

FHWA

SDD 08F04 - 08

SDD 08F04 - 08



WINGWALL ANGLE DETAILS

INLET			OUTLET		
R*	X	Y	R*	X	Y
0 - 7°	30°	30°	0 - 15°	15°	15°
8 - 22°	25°	"	16 - 45°	10°	"
23 - 37°	20°	"	46 - 75°	5°	"
38 - 52°	15°	"	OVER 75°	0°	"
53 - 67°	10°	"			
68 - 82°	5°	"			
OVER 82°	0°	"			

*R = NUMBER OF DEGREES RIGHT OR LEFT HAND FORWARD

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.

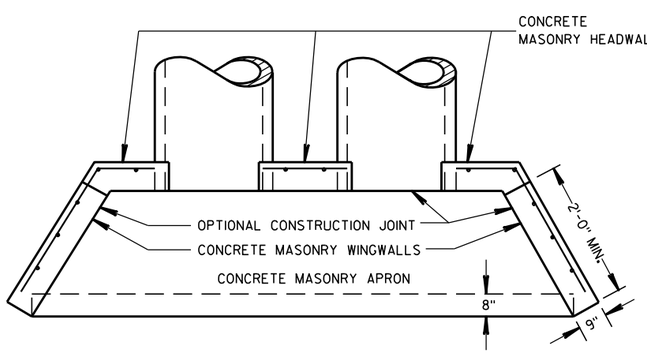
FILL SLOPES FLATTER THAN 2 ½:1 SHALL BE WARPED TO MEET THE TOP OF THE WINGWALLS.

ALL STEEL REINFORCEMENT AND WELDED STEEL WIRE FABRIC SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE NOTED.

(1) MINIMUM REINFORCEMENT SHALL BE 6" X 6" - W4.0 X W4.0 OR NO. 3 BARS SPACED 12" C-C IN BOTH DIRECTIONS.

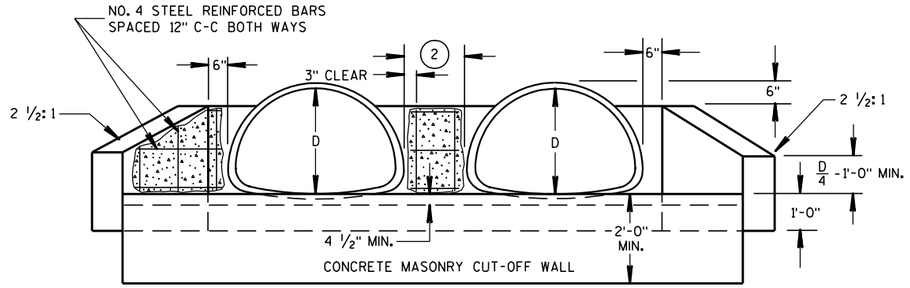
(2) THE SPACE BETWEEN PIPES SHALL BE AS FOLLOWS:

DIAMETER OR SPAN	SPACE
UP TO AND INCLUDING 48"	2'-0"
OVER 48" TO 72"	½ DIA. OR SPAN
OVER 72"	3'-0"



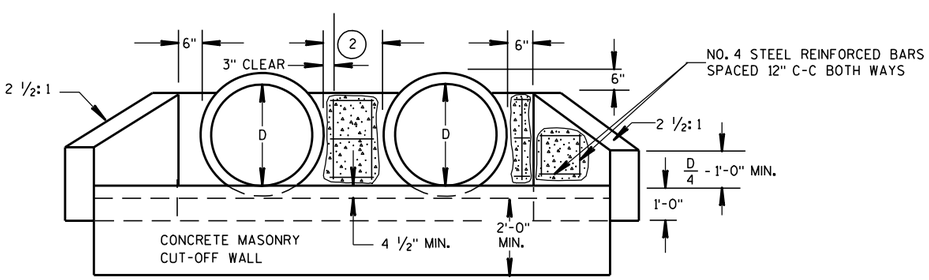
PLAN VIEW

CULVERT PIPE AND PIPE ARCH



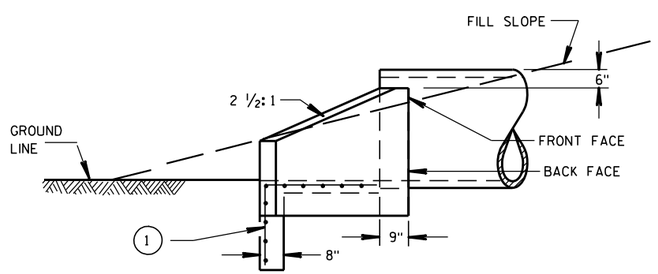
END ELEVATION

PIPE ARCH



END ELEVATION

CULVERT PIPE



SIDE ELEVATION

CULVERT PIPE AND PIPE ARCH

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

9/14/98 — DATE

/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

6

S.D.D. 8 F 10-1

6

S.D.D. 8 F 10-1

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.

FILL SLOPES FLATTER THAN 2 ½:1 SHALL BE WARPED TO MEET THE TOP OF THE WINGWALLS.

ALL STEEL REINFORCEMENT AND WELDED STEEL WIRE FABRIC SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE NOTED.

(1) MINIMUM REINFORCEMENT SHALL BE 6" X 6" - W4.0 X W4.0 OR NO. 3 BARS SPACED 12" C-C IN BOTH DIRECTIONS.

(2) THE SPACE BETWEEN PIPES SHALL BE AS FOLLOWS:

DIAMETER OR SPAN	SPACE
UP TO AND INCLUDING 48"	2' - 0"
OVER 48" TO 72"	½ DIA. OR SPAN
OVER 72"	3' - 0"

(3) LIMITS OF TRENCH BACKFILL

(4) LIMITS OF FOUNDATION BACKFILL

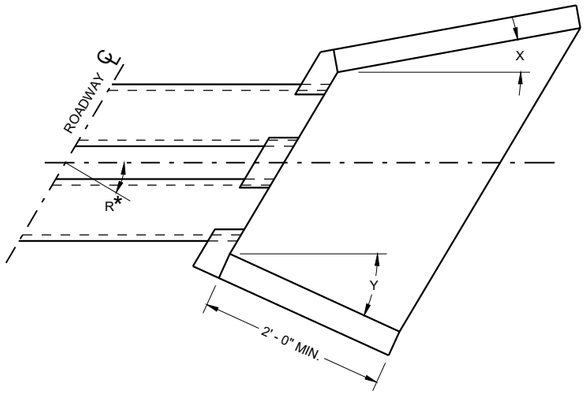
(5) FOUNDATION AND TRENCH BACKFILL ARE MATERIALS INCLUDED IN PAYMENT FOR CULVERT PIPE, PIPE ARCH, CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPSE OR CONCRETE MASONRY ENDWALLS.

(6) DO NOT PLACE FOUNDATION BACK FILL OR ANY OTHER GRANULAR BACKFILL AROUND OR BELOW CUT OFF WALL. POUR CUT OFF WALL AGAINST NATIVE SOIL

(7) MINIMUM HEIGHT SHALL BE THE GREATER OF 1'- 0" OR ¼ HEIGHT OF CULVERT PIPE.

TRENCH BACKFILL

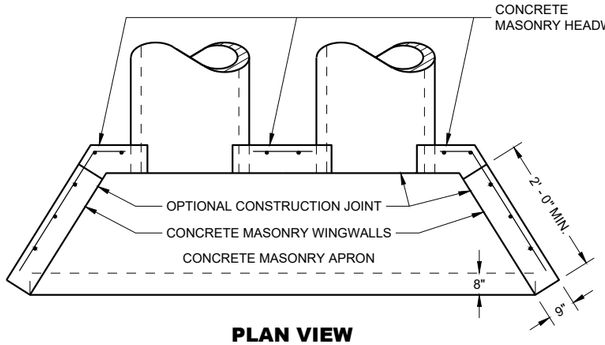
FOUNDATION BACKFILL



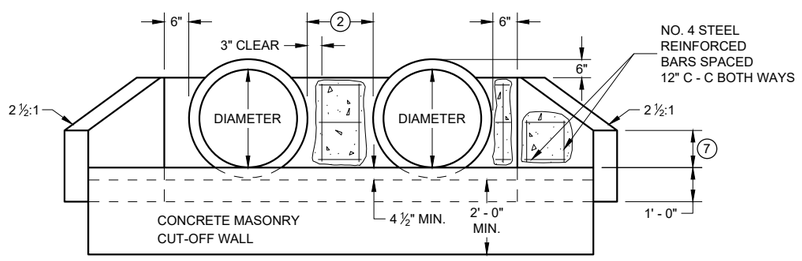
WINGWALL ANGLE DETAILS

INLET			OUTLET		
R*	X	Y	R*	X	Y
0 - 7°	30°	30°	0 - 15°	15°	15°
8 - 22°	25°	30°	16 - 45°	10°	15°
23 - 37°	20°	30°	46 - 75°	5°	15°
38 - 52°	15°	30°	OVER 75°	0°	15°
53 - 67°	10°	30°			
68 - 82°	5°	30°			
OVER 82°	0°	30°			

R* = NUMBER OF DEGREES RIGHT OR LEFT HAND FORWARD

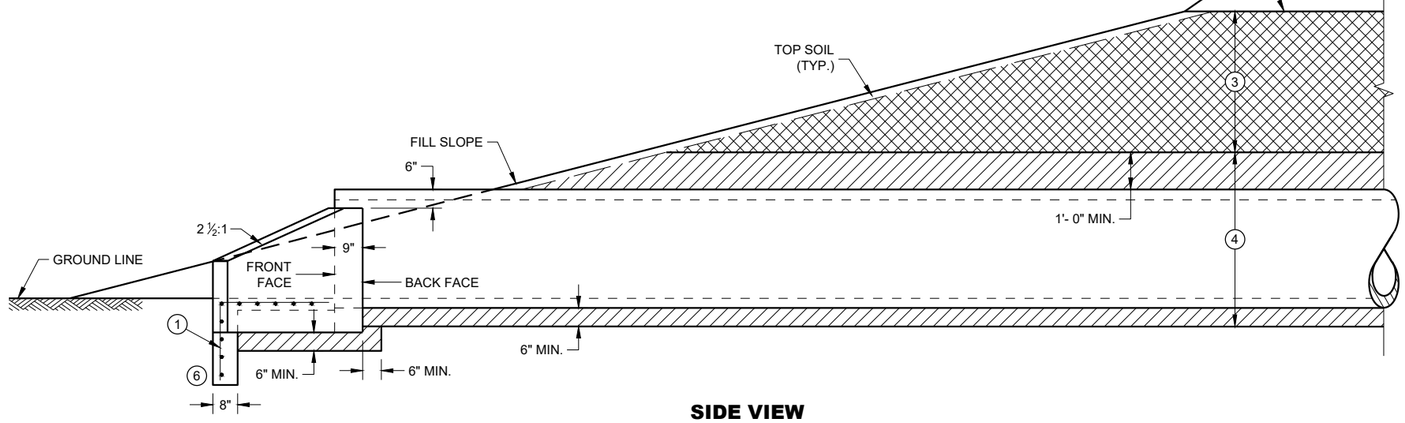


PLAN VIEW



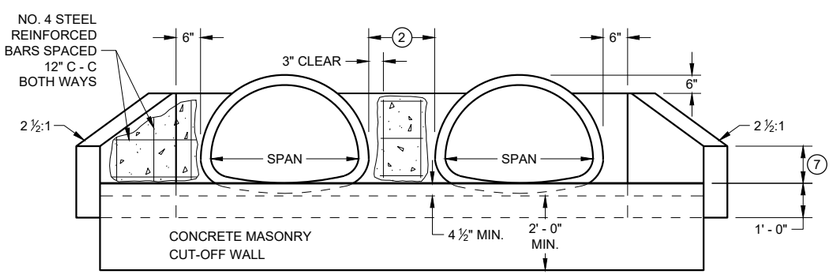
END VIEW

CIRCULAR PIPE



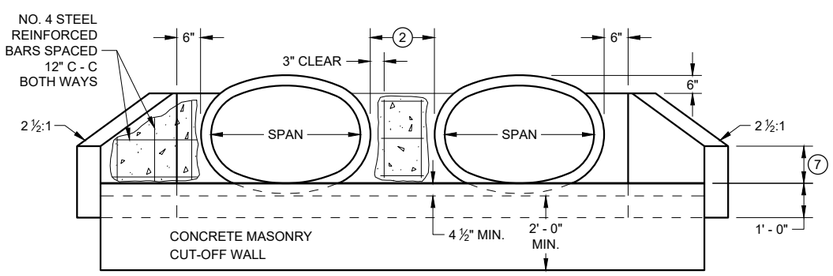
SIDE VIEW

CIRCULAR PIPE, PIPE ARCH OR HORIZONTAL ELLIPSE



END VIEW

PIPE ARCH



END VIEW

HORIZONTAL ELLIPSE

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

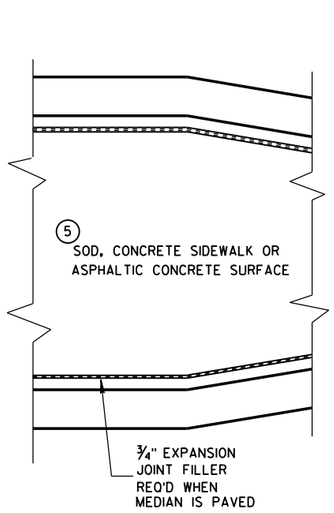
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

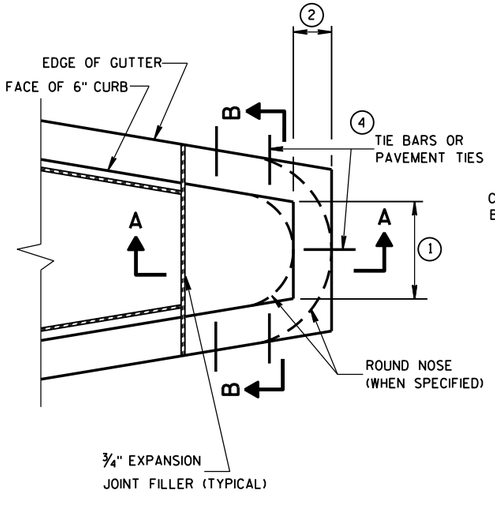
APPROVED
May 2022 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER

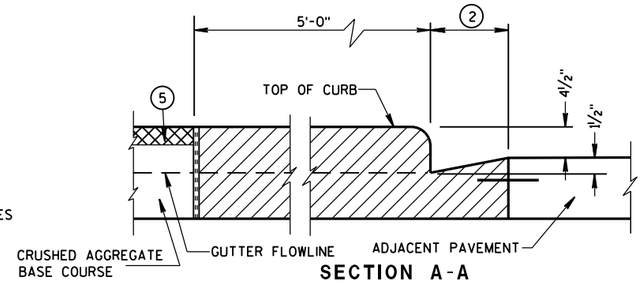
FHWA

6

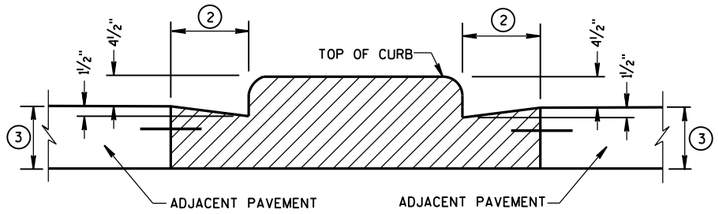
SDD 08F10 - 02







SECTION A-A



SECTION B-B

CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

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

(1) SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).

(2) WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.

(3) DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

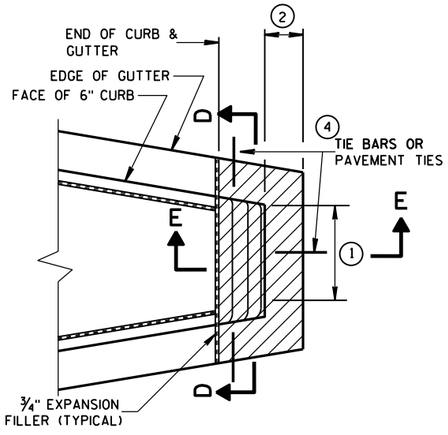
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

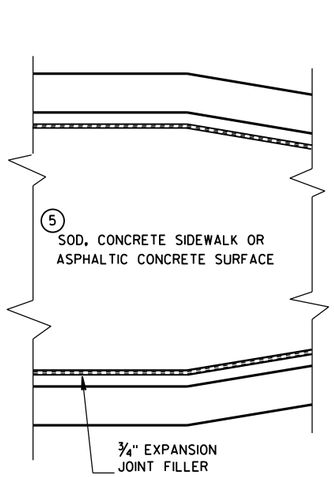
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

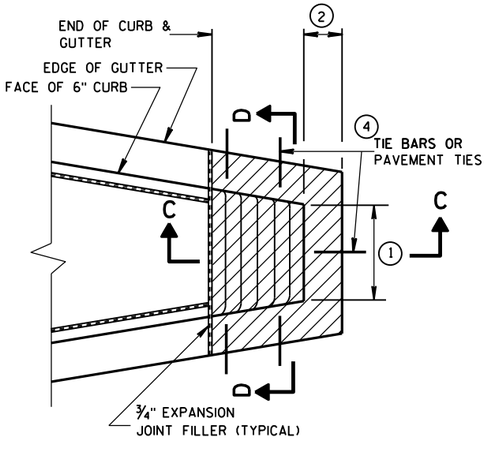
(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

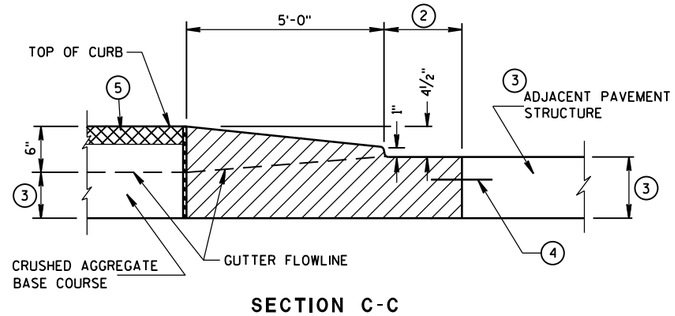
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.



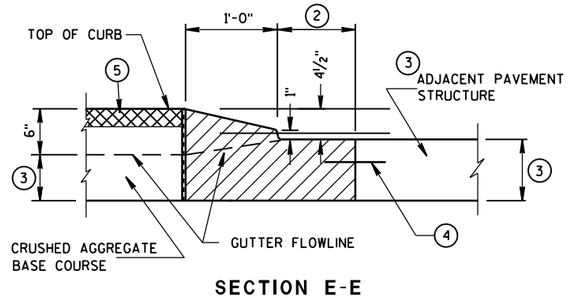




CONCRETE MEDIAN SLOPED NOSE TYPE 1

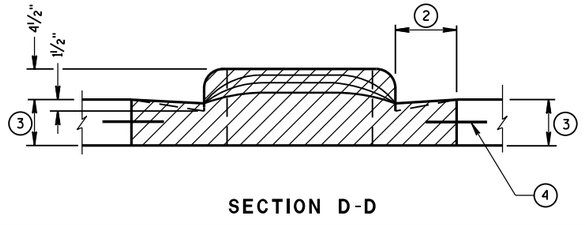


SECTION C-C



SECTION E-E

CONCRETE MEDIAN SLOPED NOSE TYPE 2



SECTION D-D

CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

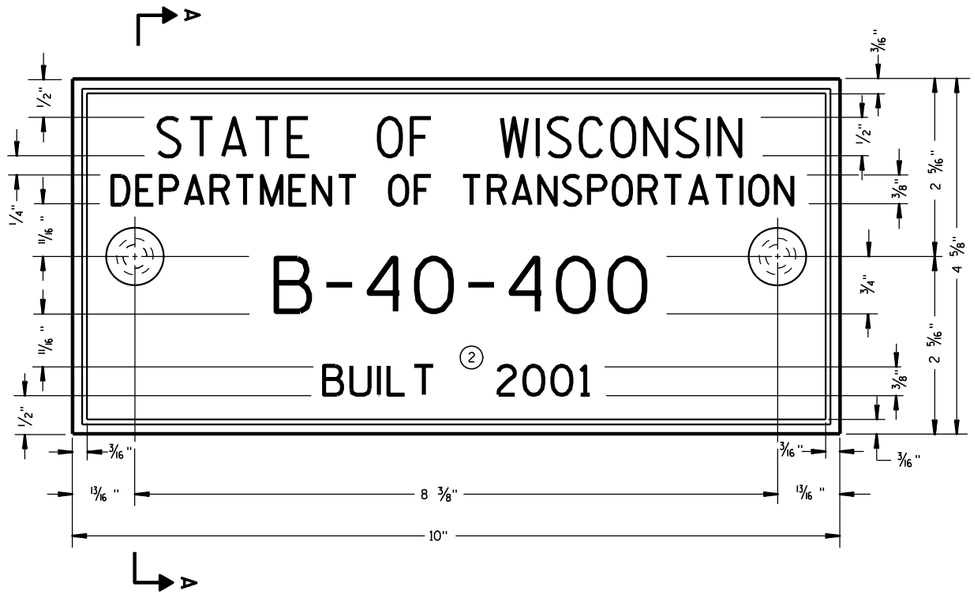
APPROVED
6/8/2006
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS D ENGINEER
FHWA

6

S.D.D. 11 B 2-2

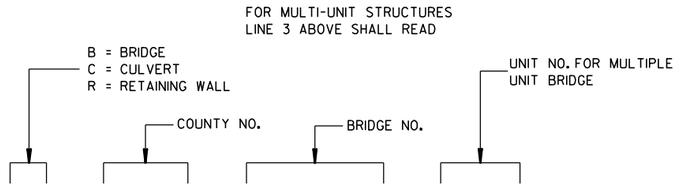
6

S.D.D. 11 B 2-2



TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



NUMBERING DESIGNATION
MULTI-UNIT STRUCTURES

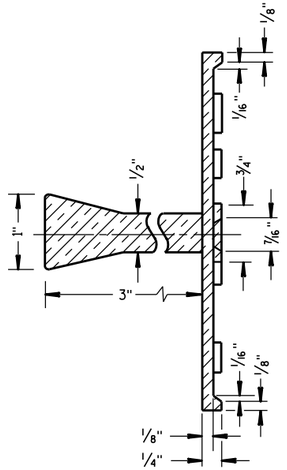
GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

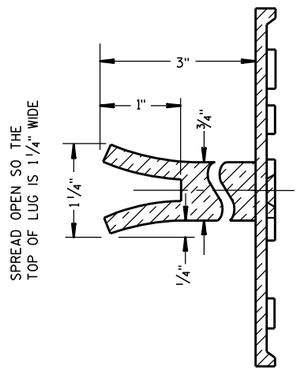
THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

(1) EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

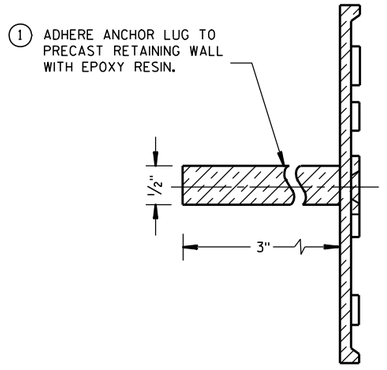
(2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SECTION A-A



ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

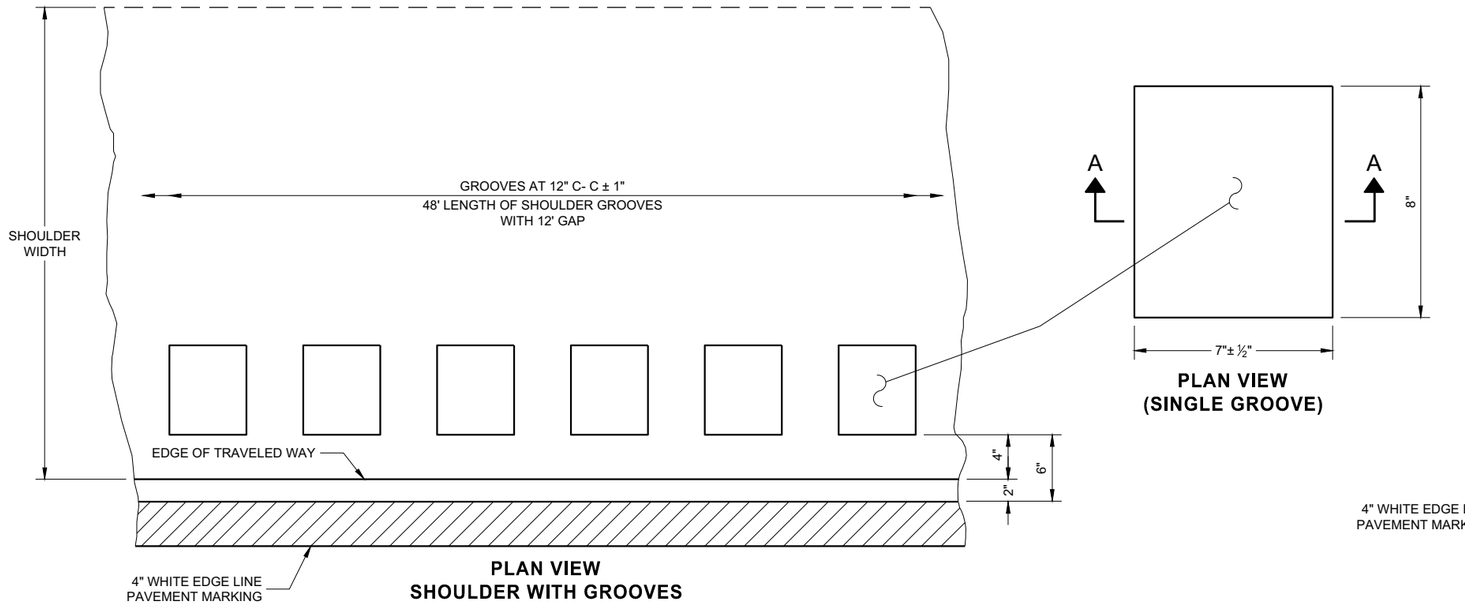
3/26/10 DATE

/S/ Scot Beck CHIEF STRUCTURAL DEVELOPMENT ENGINEER

FHWA

6

S.D.D. 12 A 3-10



PLAN VIEW
SHOULDER WITH GROOVES

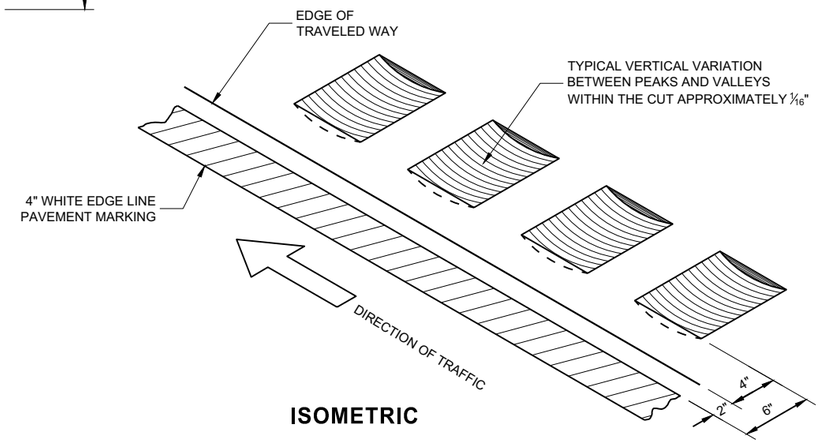
PLAN VIEW
(SINGLE GROOVE)

GENERAL NOTES

DETAILS OF CONSTRUCTION NO SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

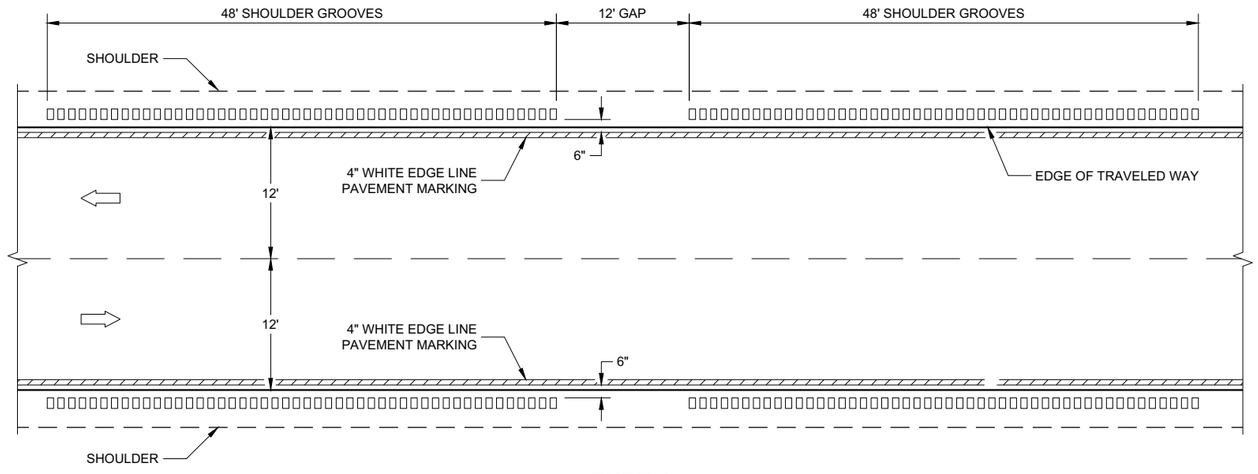
DO NOT MILL SHOULDER GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

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

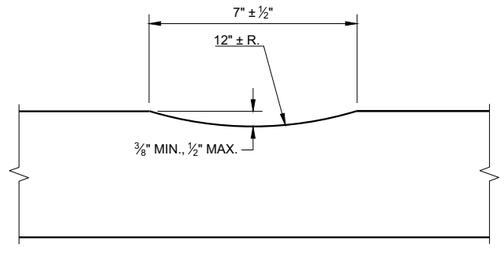


ISOMETRIC

PLACEMENT DETAIL FOR TYPE 1 MILLED RUMBLE STRIP



TYPE 1
2 - LANE SHOULDER RUMBLE STRIP



SECTION A - A

2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING

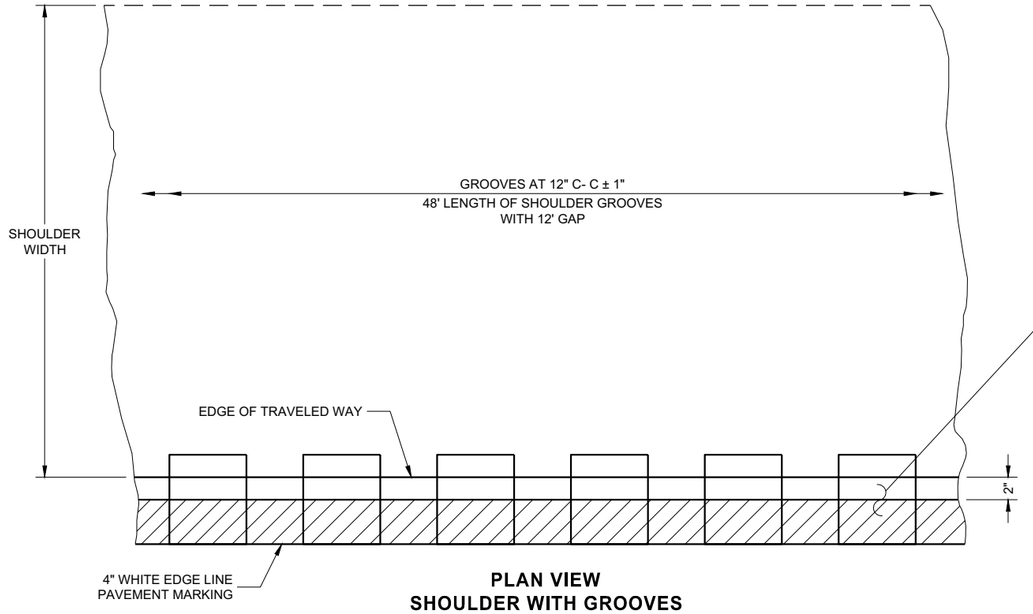
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

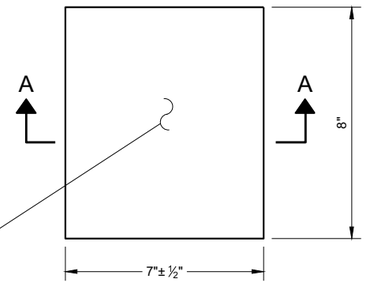
SDD 13A10 - 02a

6

SDD 13A10 - 02a



PLAN VIEW
SHOULDER WITH GROOVES



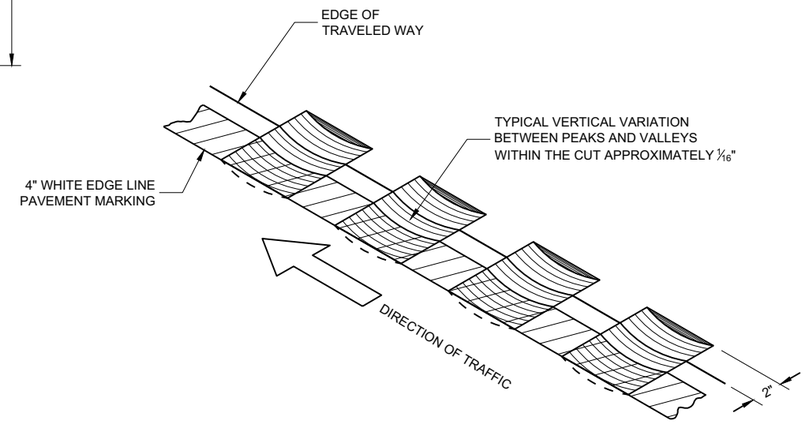
PLAN VIEW
(SINGLE GROOVE)

GENERAL NOTES

DETAILS OF CONSTRUCTION NO SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

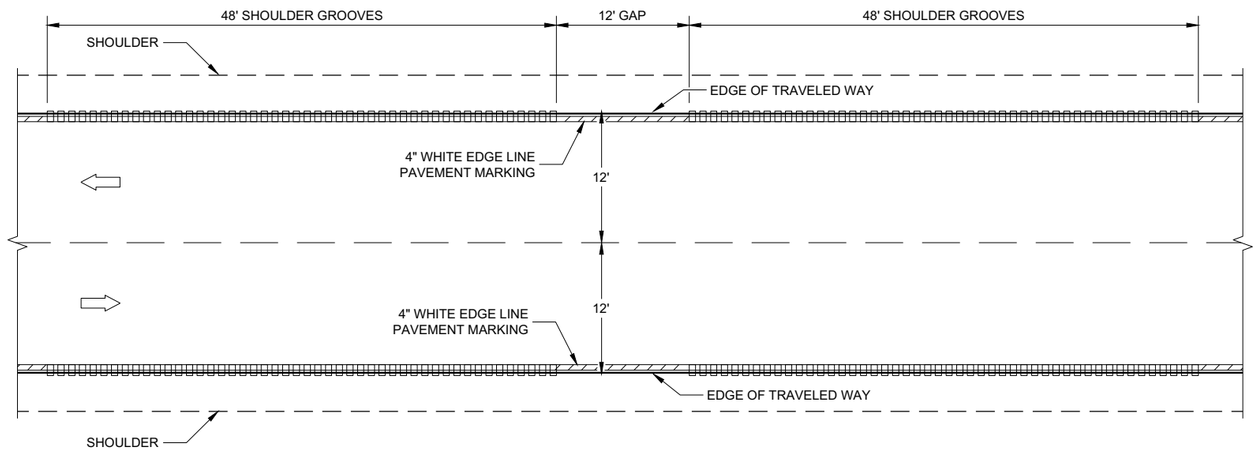
DO NOT MILL SHOULDER GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

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

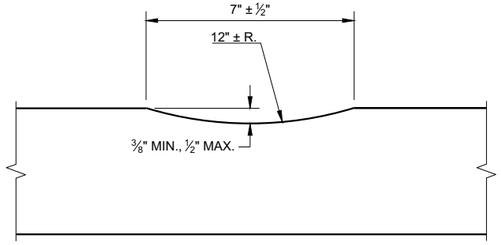


ISOMETRIC

PLACEMENT DETAIL FOR TYPE 2 MILLED RUMBLE STRIP



TYPE 2
2 - LANE SHOULDER RUMBLE STRIP



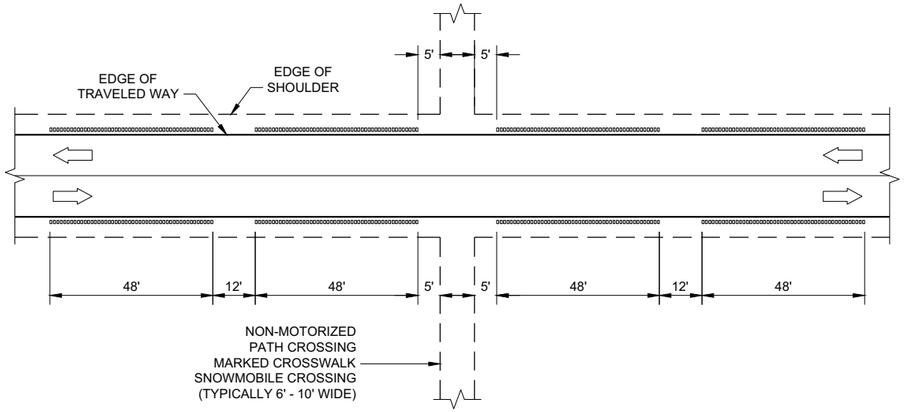
SECTION A - A

2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING

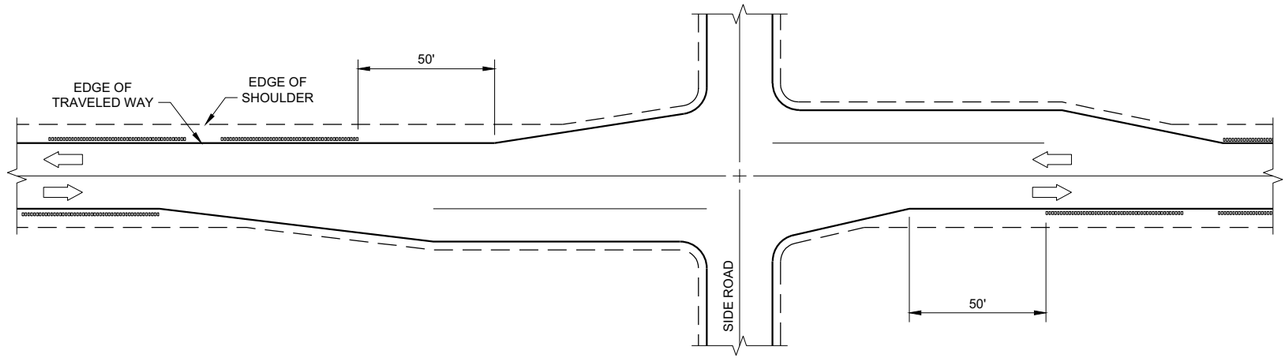
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 13A10 - 02b

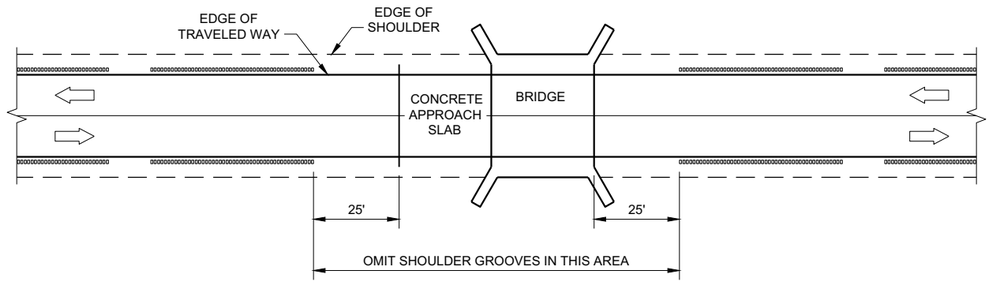
SDD 13A10 - 02b



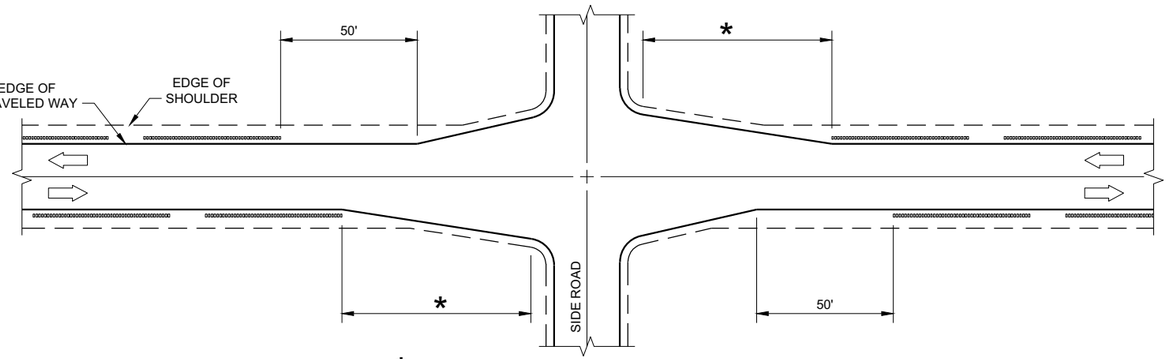
SHOULDER GROOVES AT MISCELLANEOUS CROSSINGS



SHOULDER GROOVES AT RIGHT TURN LANE

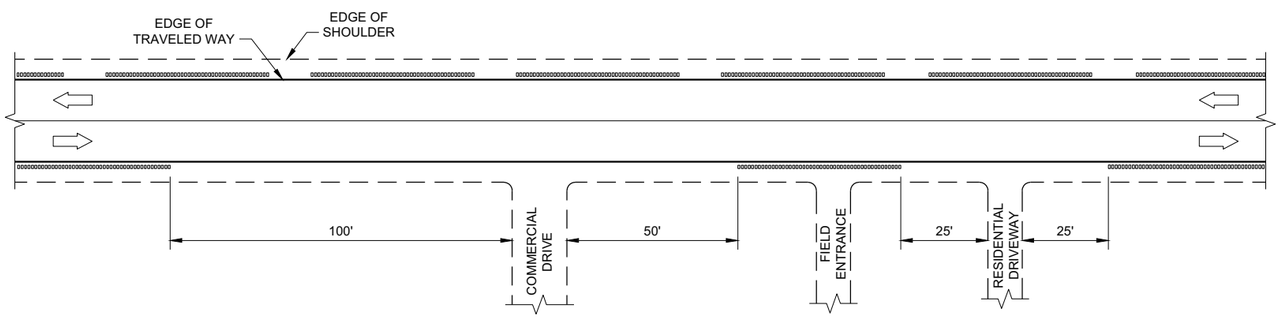


SHOULDER GROOVES AT BRIDGES



* GREATER OF 100' OR APPROACH TAPER LENGTH

SHOULDER GROOVES AT INTERSECTIONS WITH APPROACH TAPER



SHOULDER GROOVES AT DRIVEWAYS (1)

GENERAL NOTES

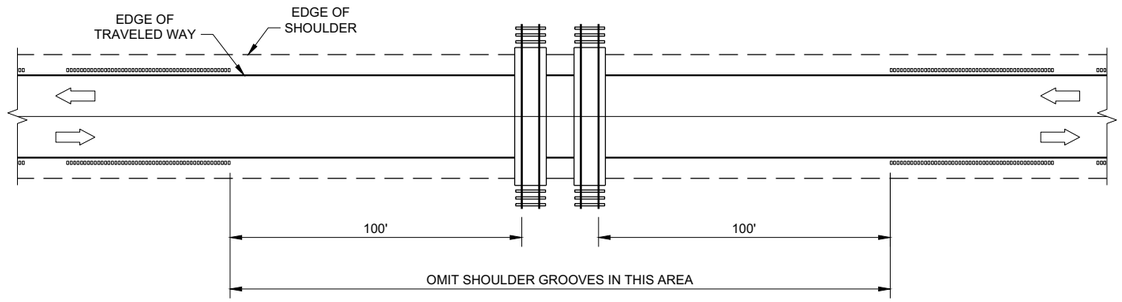
(1) SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS. WHEN DIRECTED BY THE ENGINEER.

2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING

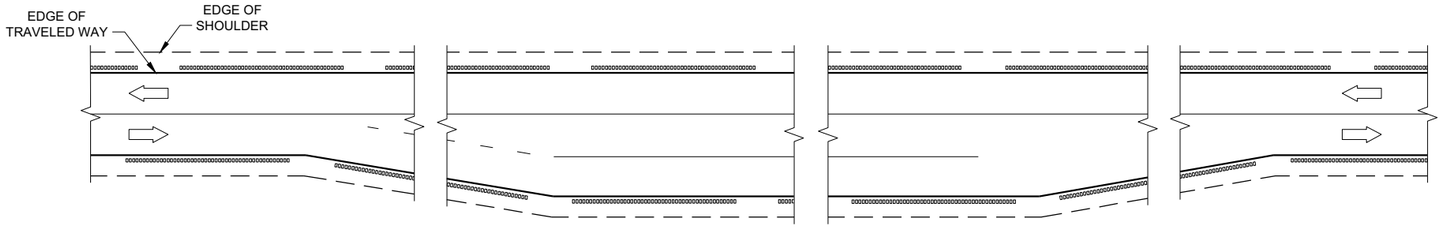
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

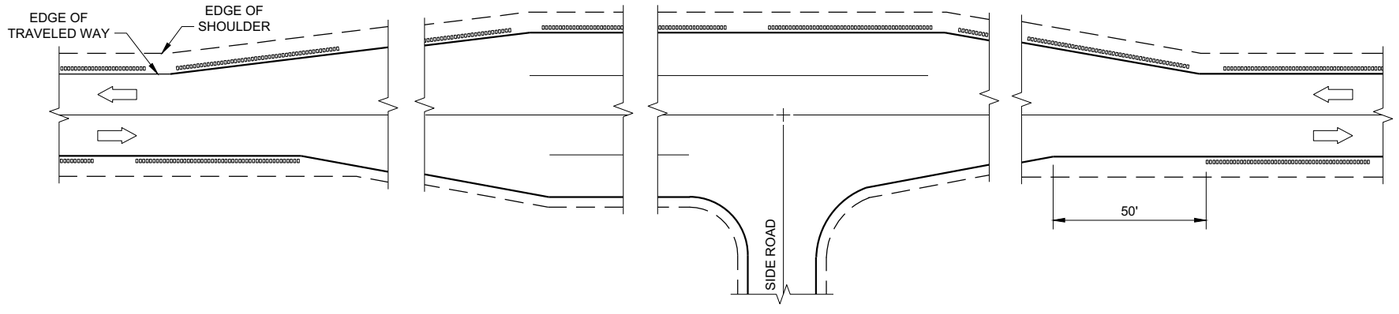
SDD 13A10 - 02c



SHOULDER GROOVES AT RAILROADS



SHOULDER GROOVES AT PASSING AND CLIMBING LANES



SHOULDER GROOVES AT BYPASS LANES

6

6

SDD 13A10 - 02d

SDD13A10 - 02d

2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING

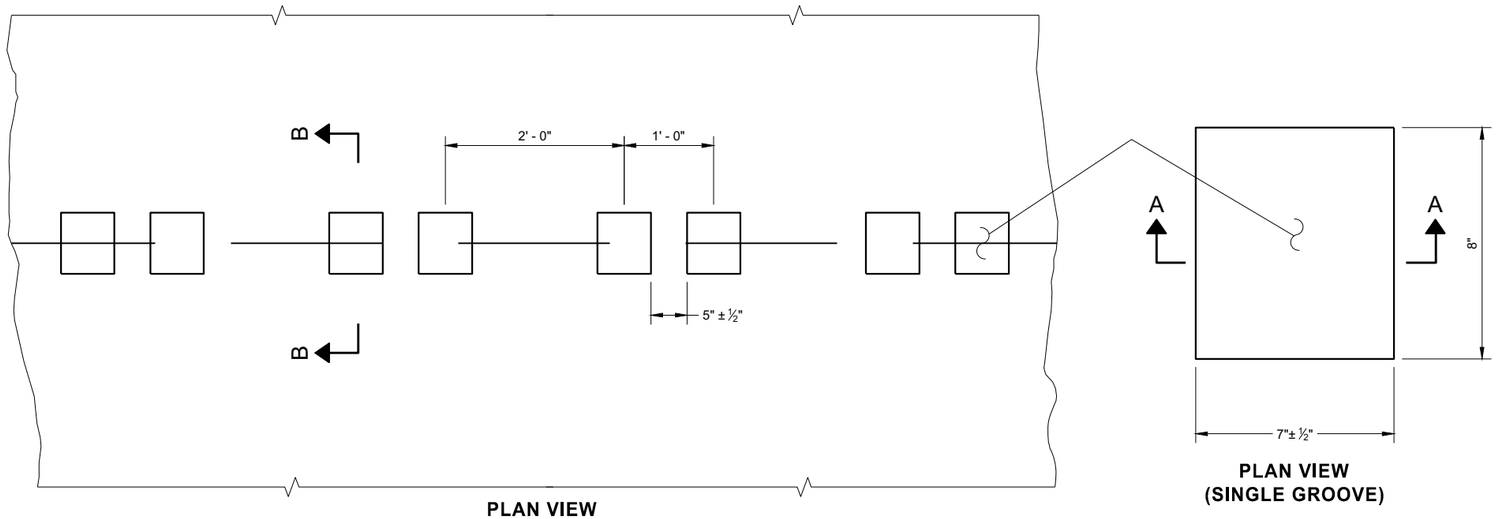
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA



PLAN VIEW
SHOULDER WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR TYPE 1 MILLED RUMBLE STRIP

GENERAL NOTES

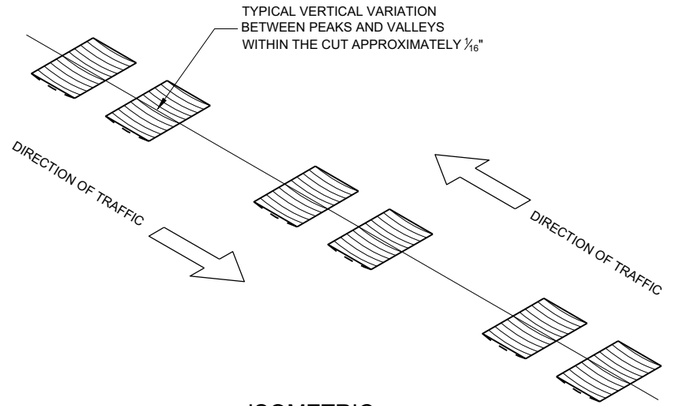
DETAILS OF CONSTRUCTION NO SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

DO NOT MILL CENTERLINE GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

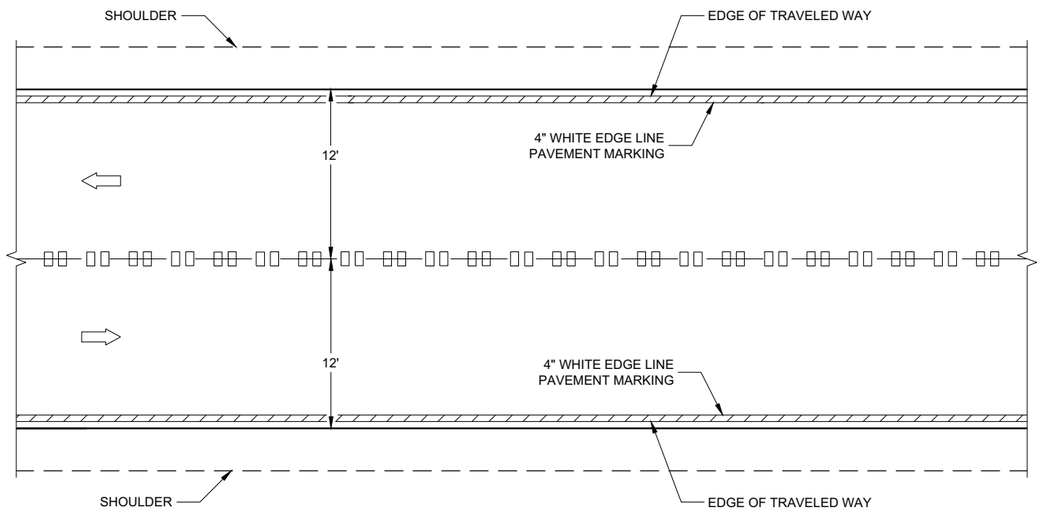
INSTALL PAVEMENT MARKING AFTER THE GROOVES ARE INSTALLED.

SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

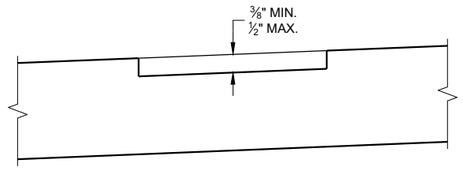
(1) CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS. WHEN DIRECTED BY THE ENGINEER.



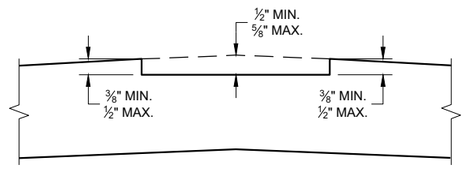
ISOMETRIC



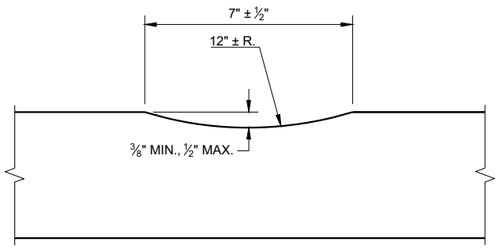
CENTERLINE GROOVES ON TWO-WAY ROADWAYS



SECTION B - B
SUPERELEVATED ROADWAY



SECTION B - B
CROWNED ROADWAY



SECTION A - A

6

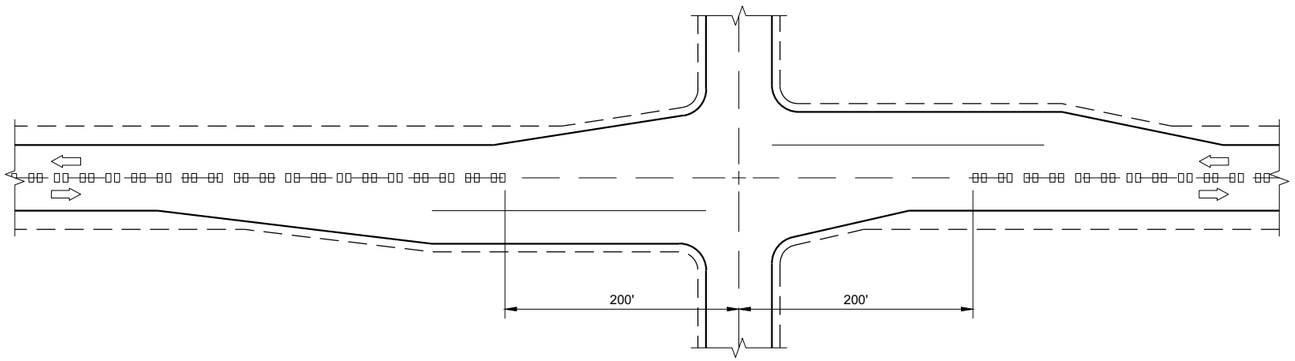
SDD 13A11 - 03a

6

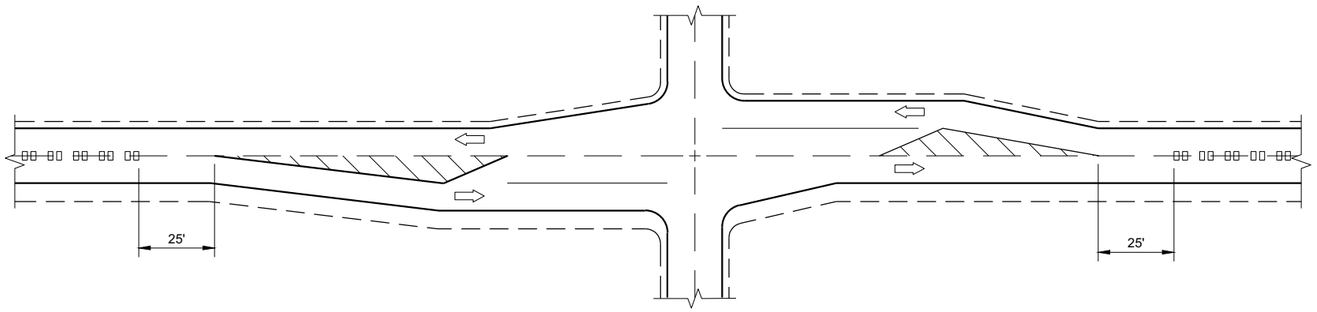
SDD 13A11 - 03a

2-LANE RURAL
CENTER LINE RUMBLE STRIP, MILLING

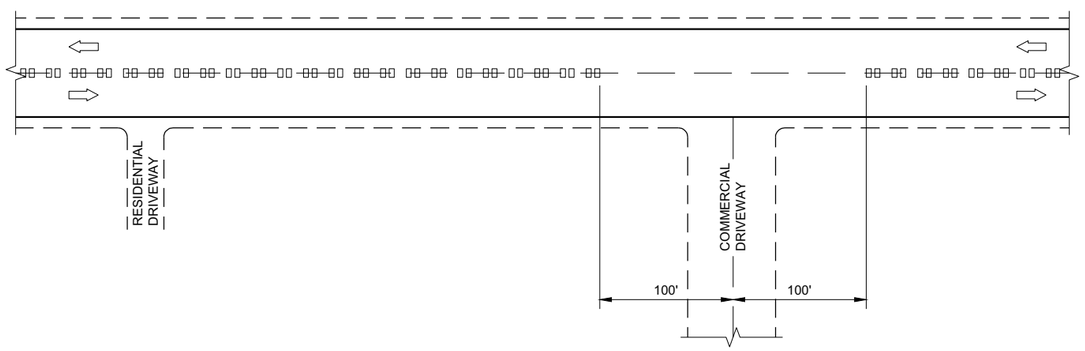
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



CENTERLINE GROOVES AT INTERSECTIONS



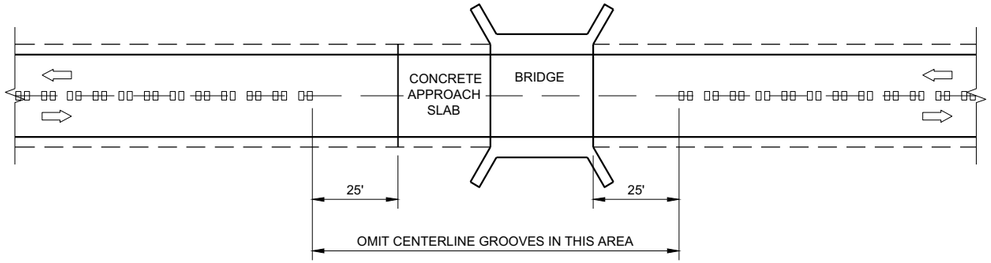
CENTERLINE GROOVES AT INTERSECTIONS (WITH LEFT TURN LANES)



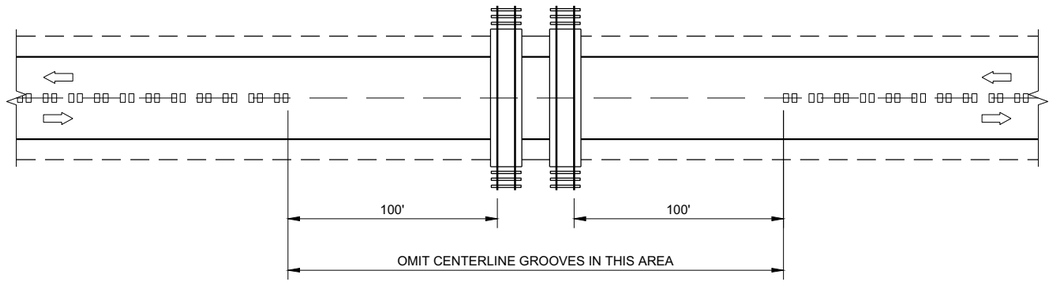
CENTERLINE GROOVES AT DRIVEWAYS (1)

GENERAL NOTES

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



CENTERLINE GROOVES AT BRIDGES



CENTERLINE GROOVES AT RAILROADS

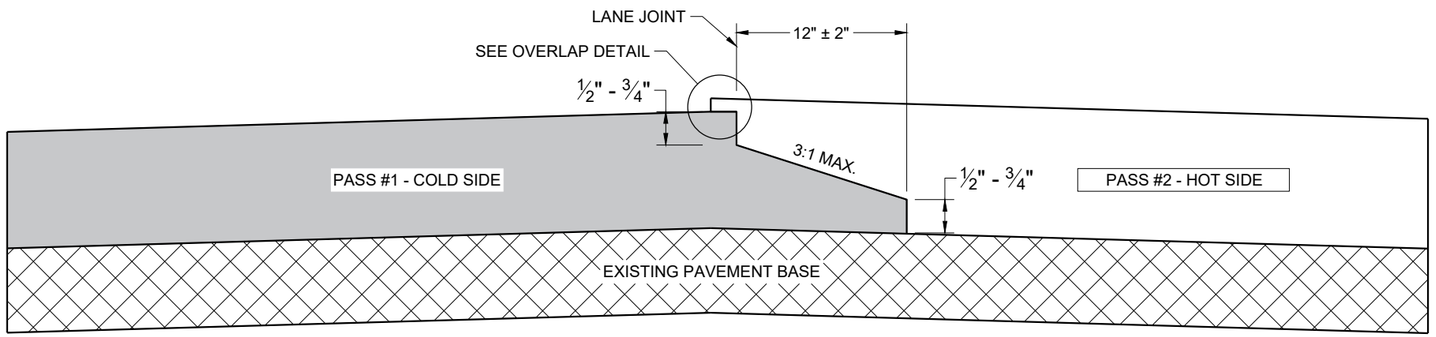
2-LANE RURAL CENTERLINE RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

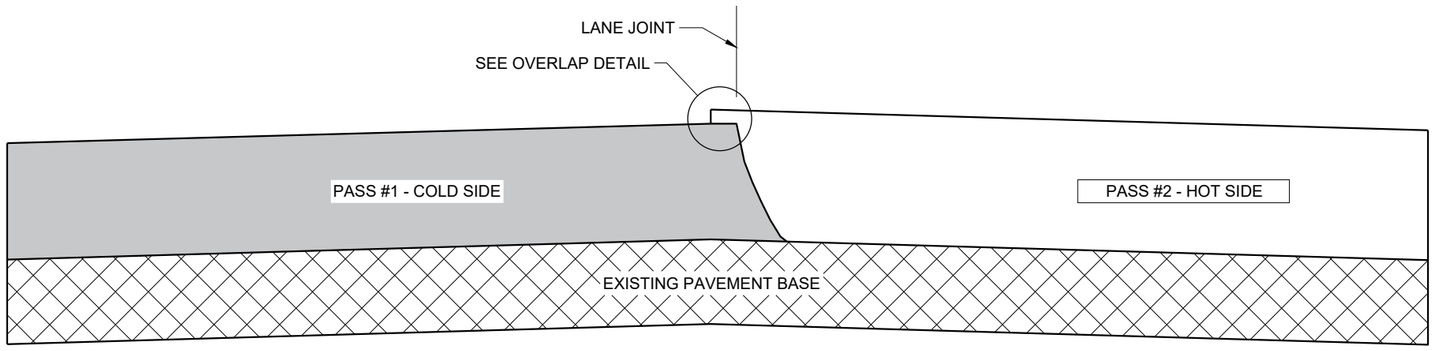
APPROVED
7/2018
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA

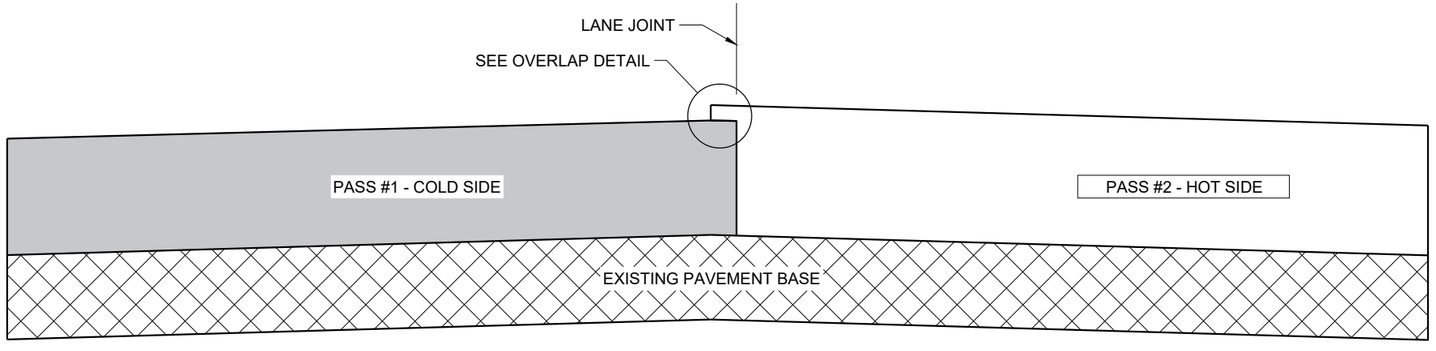
6
SDD13A11 - 03b



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

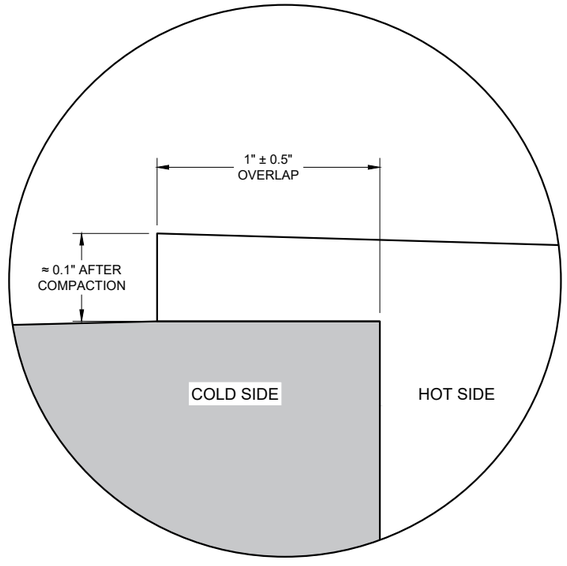
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

FOR ALL LONGITUDINAL JOINTS, ENSURE THE PAVER SCREED OVERLAPS THE PREVIOUSLY PLACED PAVEMENT BY 1" ± 0.5" AND THE HOT SIDE OF THE JOINT REMAINS HIGHER THAN THE COLD SIDE BY APPROXIMATELY 0.1" AFTER FINAL COMPACTION. (IT WILL BE FLUSH WHEN PAVING IN ECHELON.)

ONLY REMOVE THE LONGITUDINAL NOTCHED WEDGE JOINT FOR SMA PAVEMENT OR AS DIRECTED BY THE ENGINEER TO ADDRESS SPECIFIC LENGTHS OF JOINT DAMAGED BY TRAFFIC.

WHEN MILLING BACK OR REMOVING ANY LONGITUDINAL JOINT, LIMIT THE MATERIAL REMOVED TO 2" FROM THE TOP NOTCH OR FROM THE VERTICAL JOINT EDGE ON THE COLD SIDE OF THE JOINT.

USE LONGITUDINAL MILLED JOINT AS PLANS SHOW OR THE AS THE ENGINEER DIRECTS.



OVERLAP DETAIL (TYPICAL)

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

FHWA

SDD 13C19 - 03

SDD 13C19 - 03

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

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

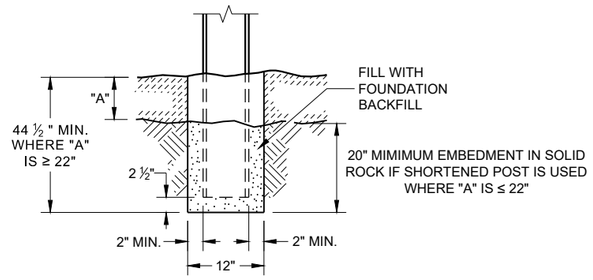
(3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL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

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

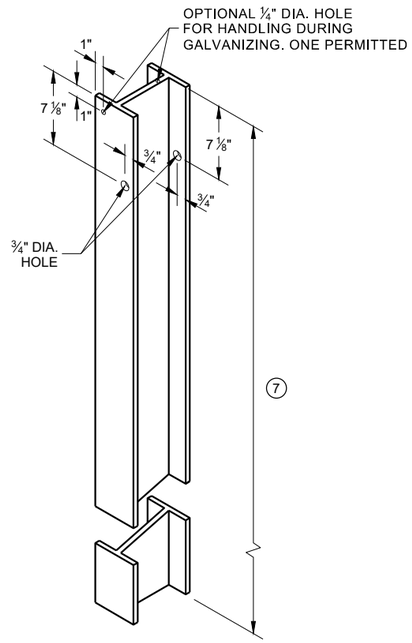
(5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ±1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 ¾" TO 32".

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

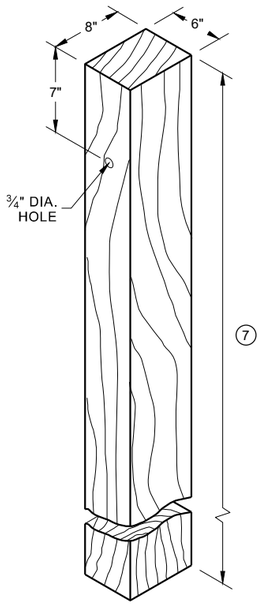
(7) TOTAL POST LENGTH FOR TYPE K IS 7' - 0".
TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' - 0".



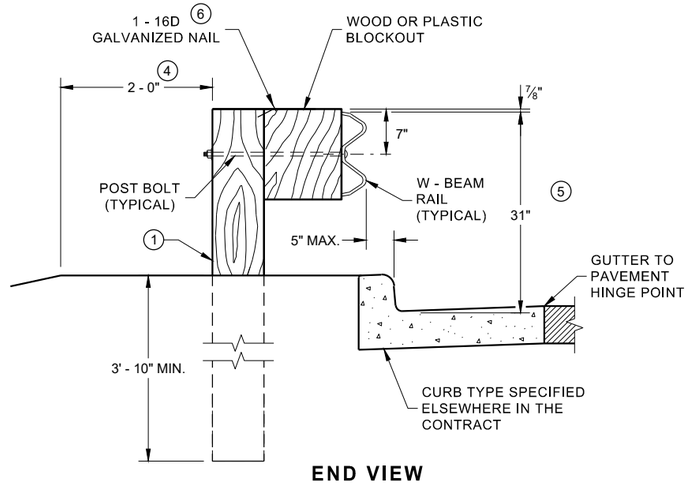
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (3)



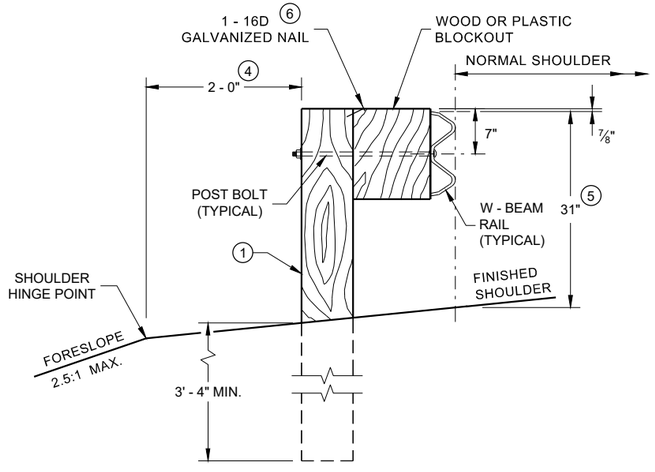
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



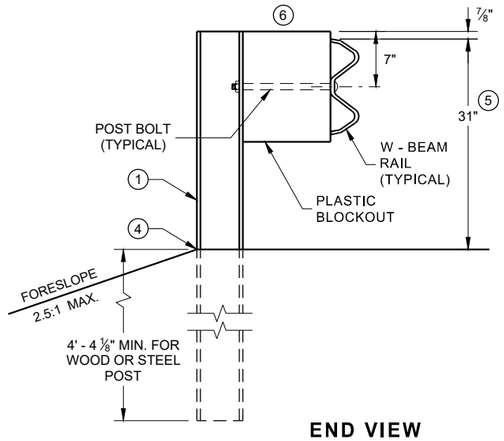
WOOD POST (6" X 8") NOMINAL (1)



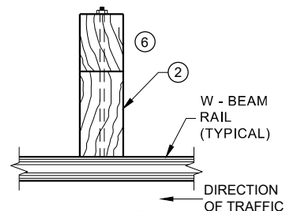
END VIEW
LOCATED ALONG A CURBED ROADWAY



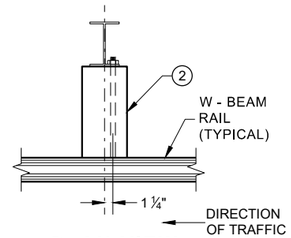
END VIEW
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



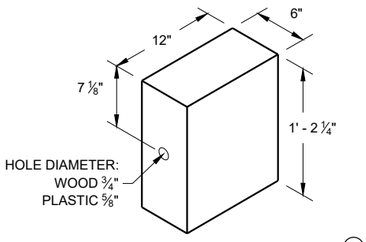
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



PLAN VIEW
STEEL POST, PLASTIC BLOCKOUT & BEAM



WOOD OR PLASTIC BLOCKOUT (2)

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

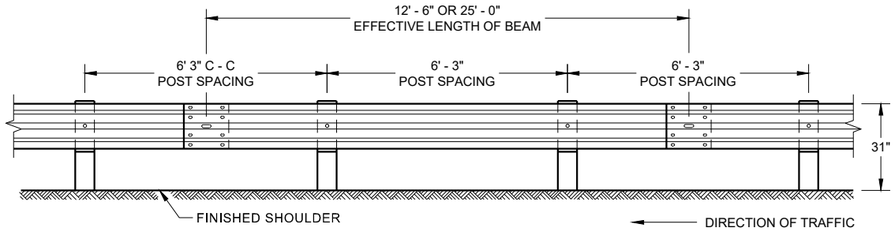
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

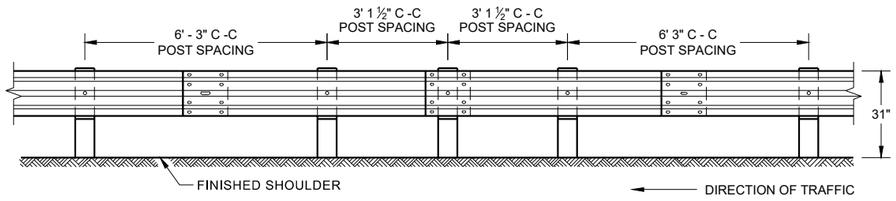
SDD 14B42 - 07a

6

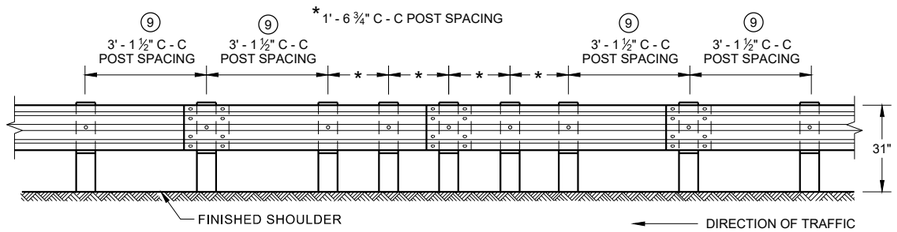
SDD 14B42 - 07a



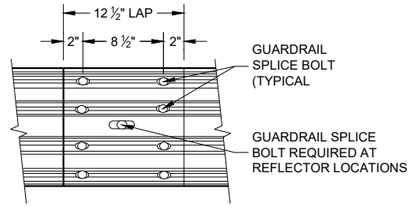
FRONT VIEW
POST SPACING STANDARD INSTALLATION



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



FRONT VIEW
QUARTER POST SPACING (QS)



FRONT VIEW
MID-SPAN BEAM SPLICE

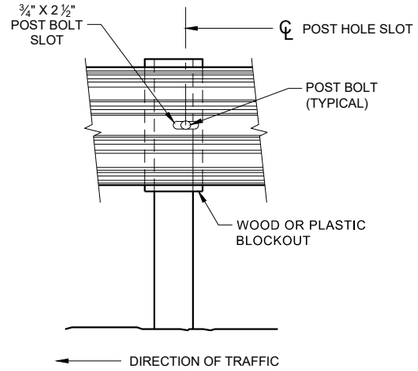
GENERAL NOTES

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

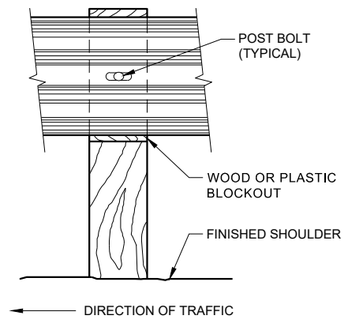
⑨ 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

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

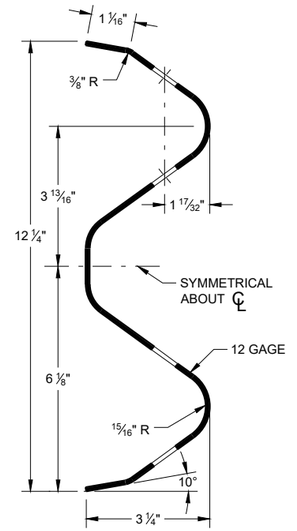
GUARD RAIL SPLICE BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



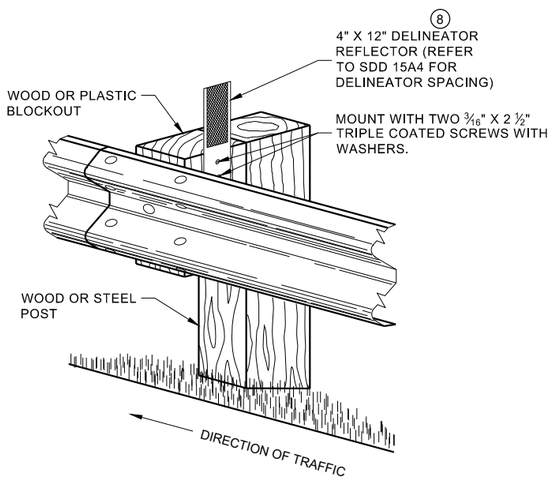
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



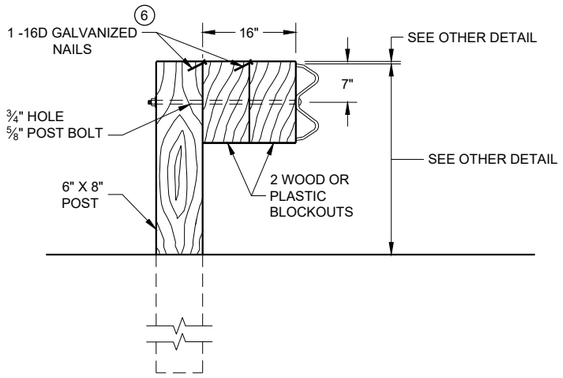
ONE SIDED REFLECTOR DETAIL
AND TYPICAL INSTALLATION

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 14B42 - 07b

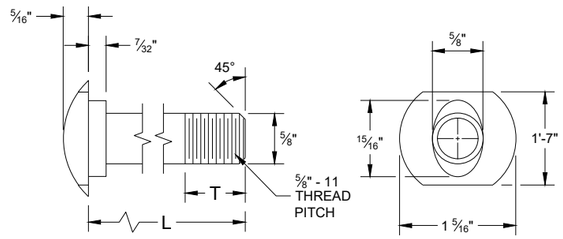


DETAIL FOR 16" BLOCKOUT DEPTH

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

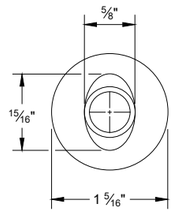
NOTE:

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

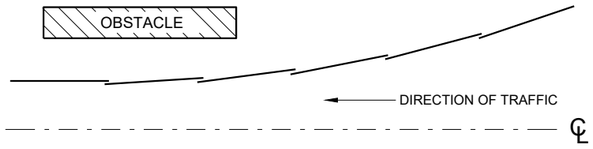


POST BOLT TABLE

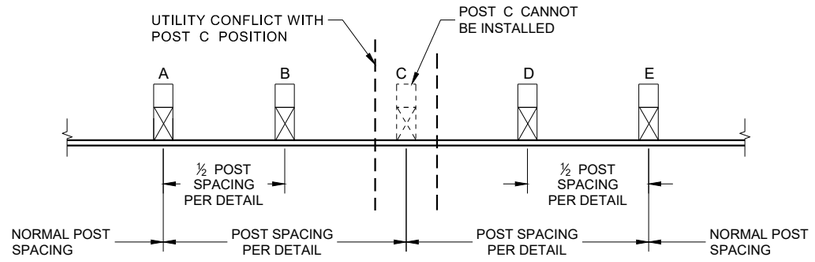
L	T (MIN.)
1 ¼"	1 ⅛"
2"	1 ¾"
10"	4"
14"	4 1⁄16"
18"	4"
21"	4 1⁄16"
25"	4"



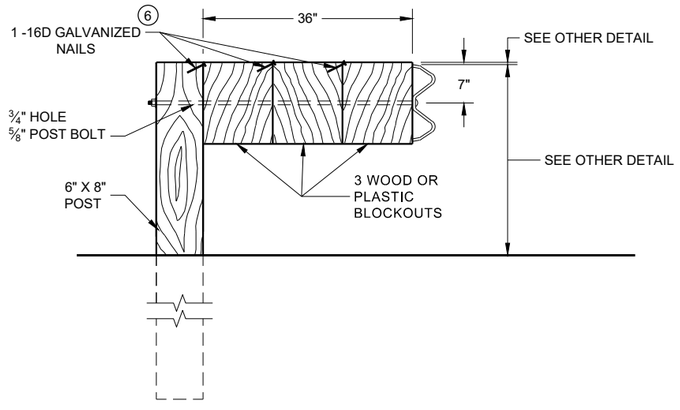
ALTERNATE BOLT HEAD



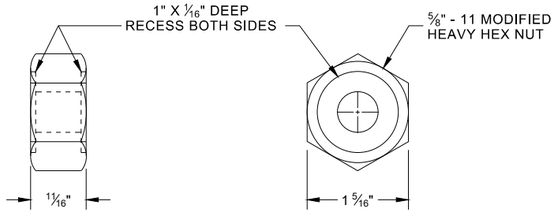
PLAN VIEW
BEAM LAPPING DETAIL



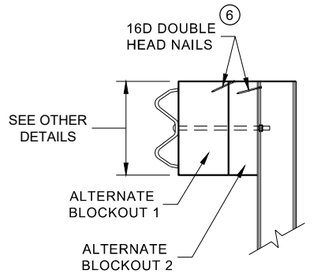
POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



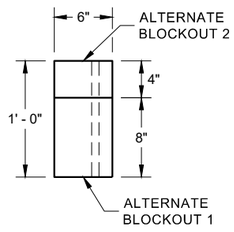
DETAIL FOR 36" BLOCKOUT DEPTH



POST BOLT, SPLICE BOLT AND RECESS NUT



SIDE VIEW



PLAN VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

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

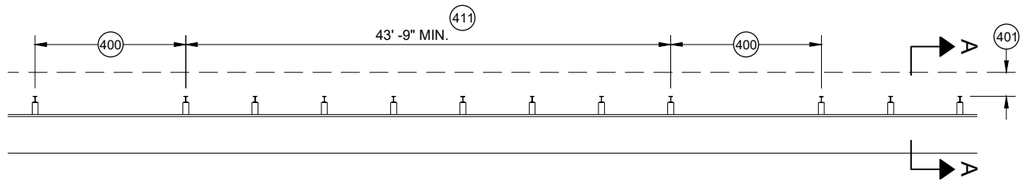
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

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

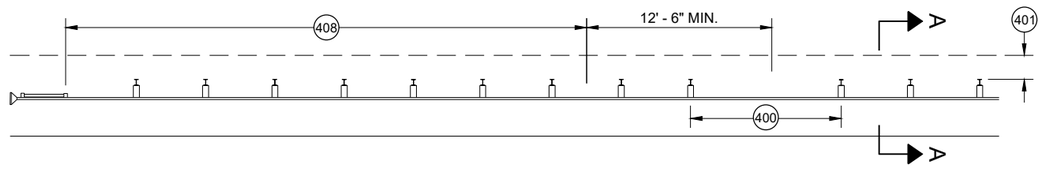
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

6

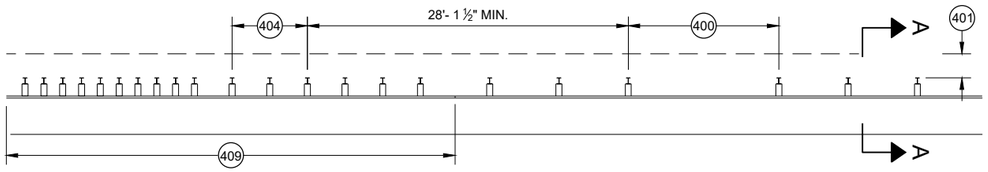
SDD 14B42 - 07c



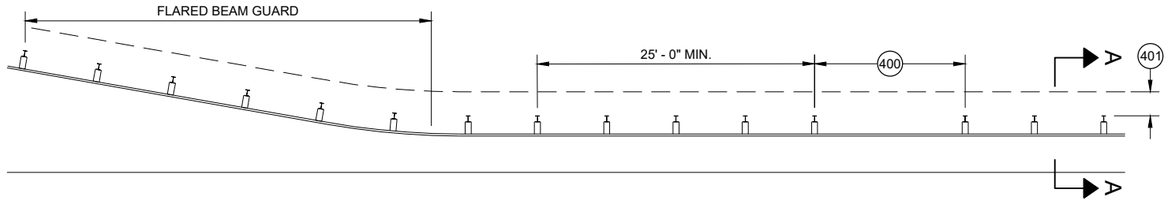
MISSING POST IN MGS GUARDRAIL



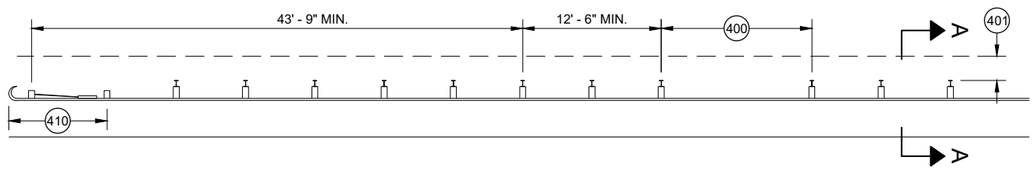
MISSING POST IN MGS GUARDRAIL NEAR EAT



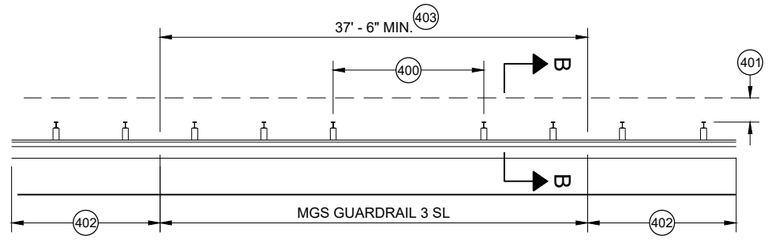
MISSING POST IN MGS GUARDRAIL NEAR AN APPROACH TRANSITION



MISSING POST IN MGS GUARDRAIL NEAR FLARED BEAM GUARD

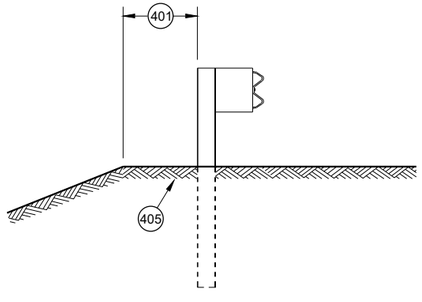


MISSING POST IN MGS GUARDRAIL NEAR A TYPE 2 END TERMINAL

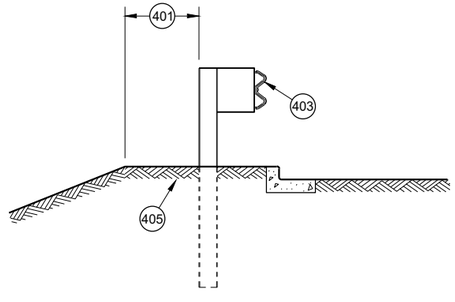


MISSING POST IN SHORT SPAN MGS GUARDRAIL NEAR CURB (SL) 407

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



SECTION A - A 406



SECTION B - B 406

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

6

SDD 14B42 - 07d

GENERAL NOTES

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

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

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

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

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

DIMENSIONS MAY VARY, MANUFACTURER'S INFORMATION.

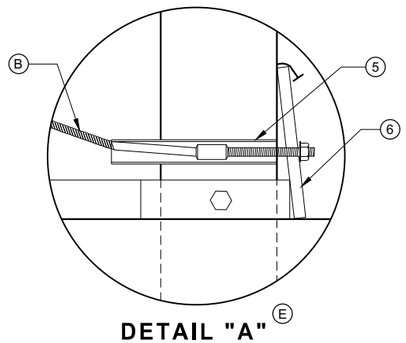
SEE SDD 14B42 FOR MORE INFORMATION.

* DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

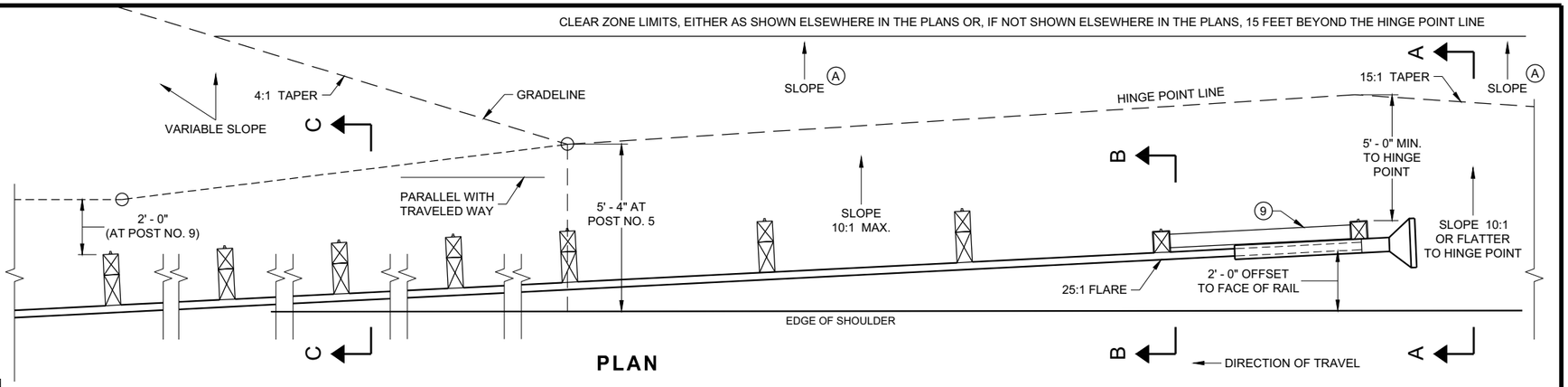
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

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

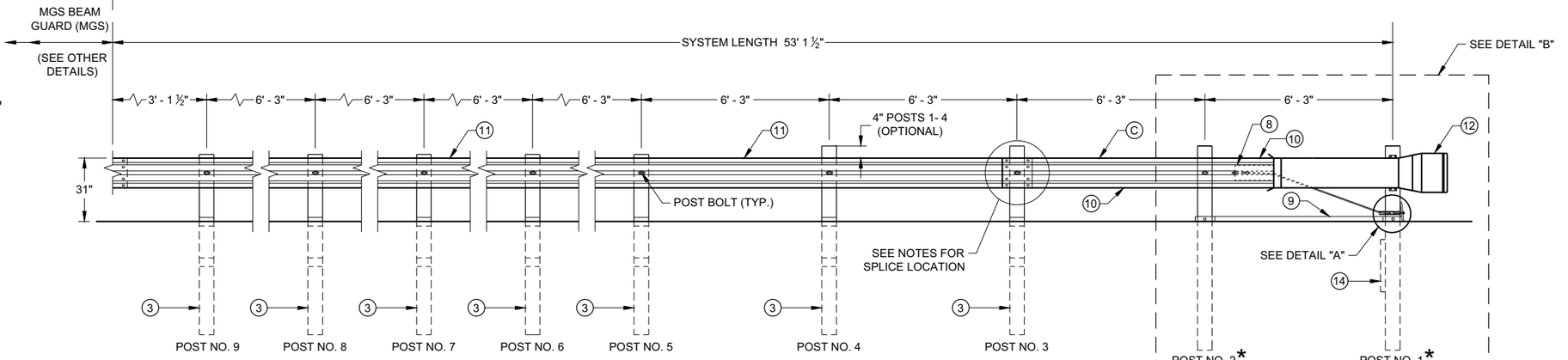
THE CENTER OF THE UPPER 3 ½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE. WOOD BLOCKS ON POSTS NUMBERED 3 THROUGH 9 MAY BE ADJUSTED UP TO 3" ABOVE THE TOP OF POST.



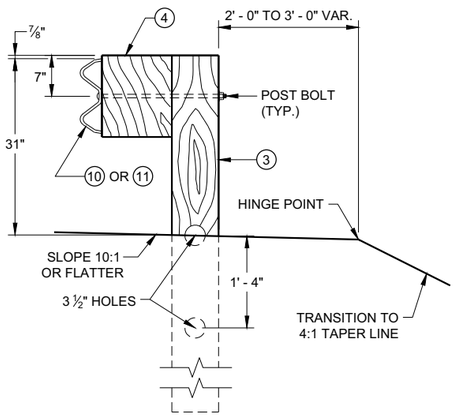
DETAIL "A" (E)



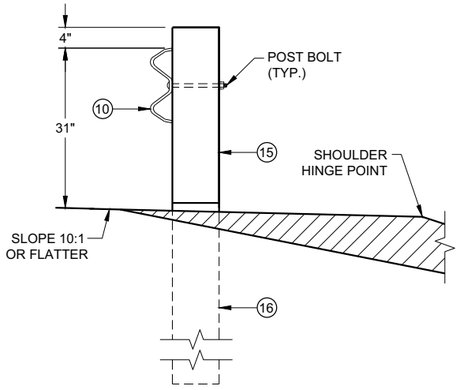
PLAN



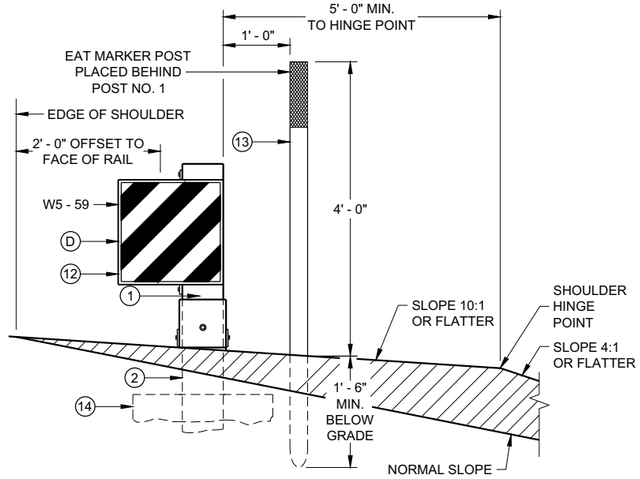
ELEVATION



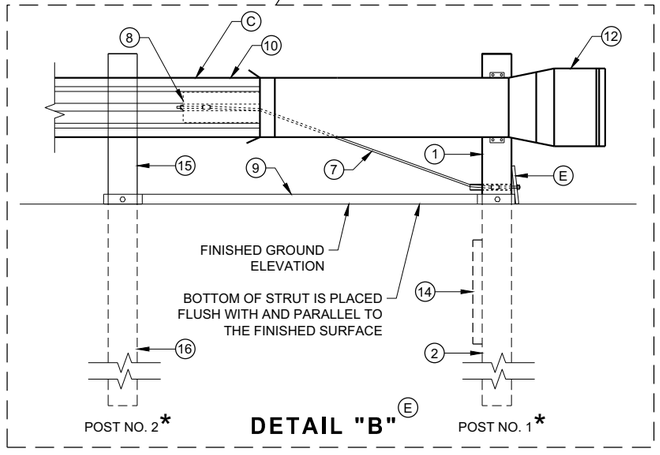
SECTION C - C
TYPICAL AT POST NOS. 3 - 9



SECTION B - B
TYPICAL AT POST NO. 2*



SECTION A - A
TYPICAL AT POST NO. 1*



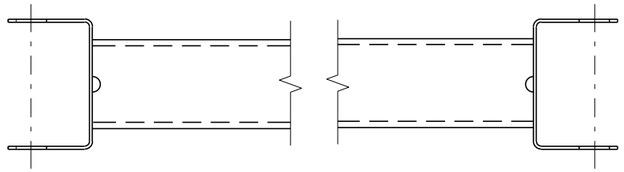
DETAIL "B" (E)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B44 - 04a

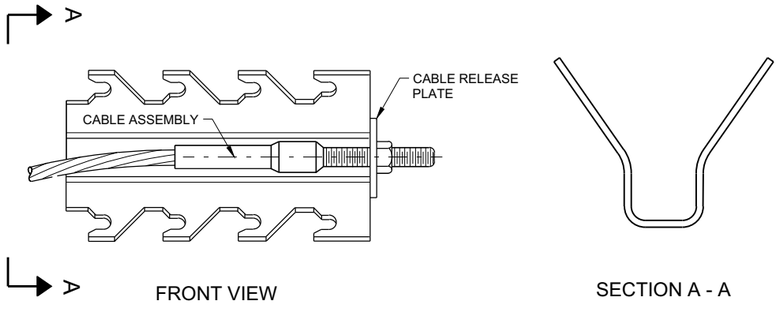
SDD 14B44 - 04a



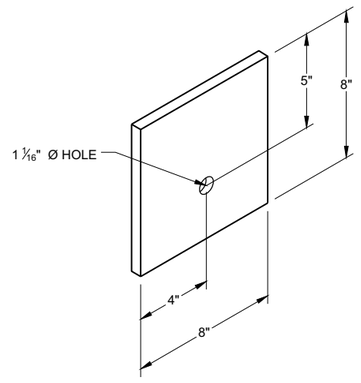
GENERIC GROUND STRUT ⑨ Ⓔ

BILL OF MATERIALS

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



GENERIC ANCHOR CABLE BOX ⑧ Ⓔ



BEARING PLATE ⑥ Ⓔ

6

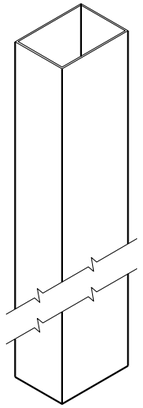
6

SDD 14B44 - 04b

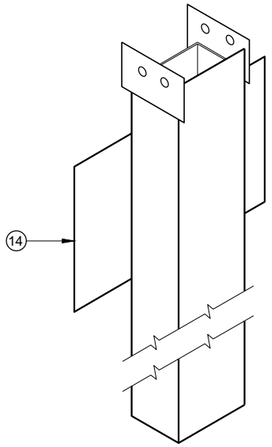
SDD 14B44 - 04b

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

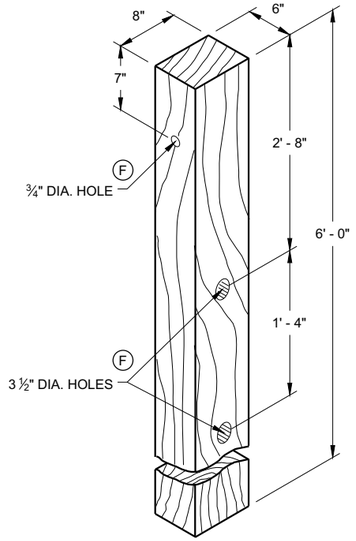
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



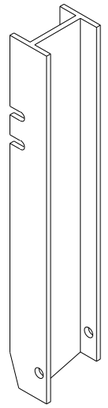
UPPER POST NO. 1 (1) (E)



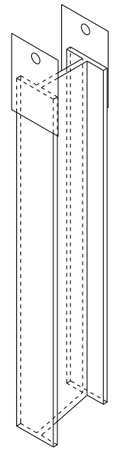
LOWER POST NO. 1 (2) (E)



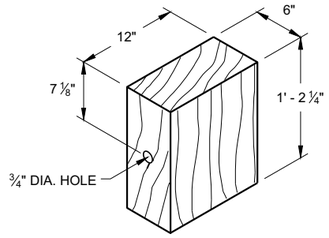
WOOD CRT POST (3) (E)
POSTS NUMBER 3-9



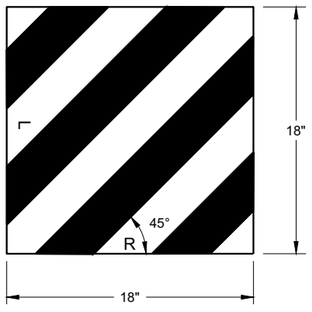
UPPER POST NO. 2 (15) (E)



LOWER POST NO. 2 (16) (E)

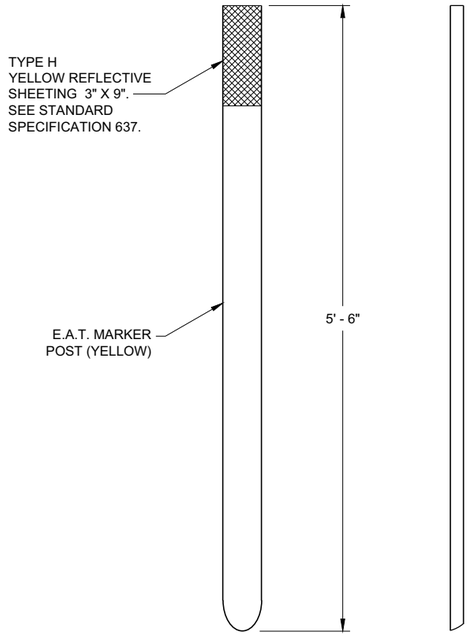


WOOD BLOCKOUT (4)
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



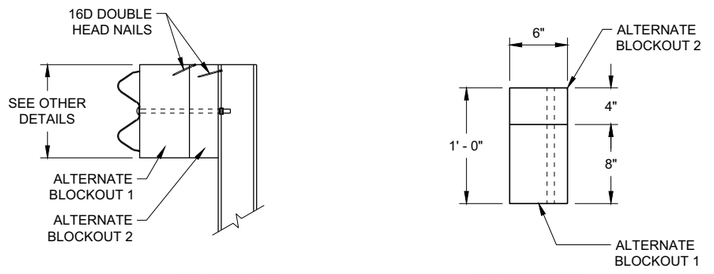
W5 - 59

REFLECTIVE SHEETING DETAIL (E)



FRONT VIEW SIDE VIEW

E.A.T. MARKER POST (13)



SIDE VIEW TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

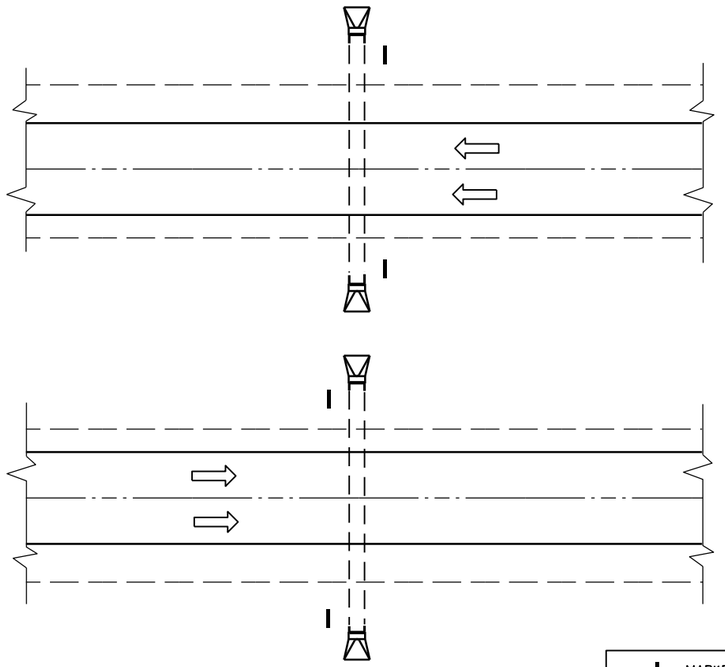
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

FHWA

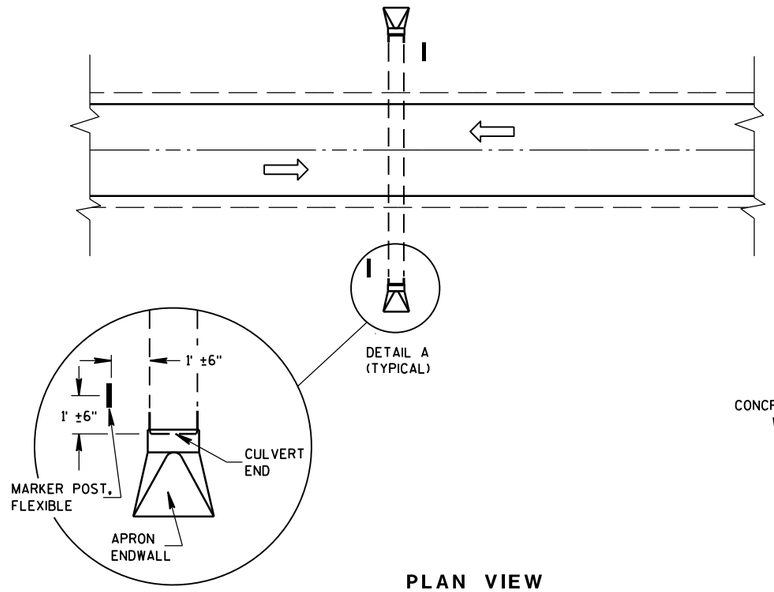
6

SDD 14B44 - 04c



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

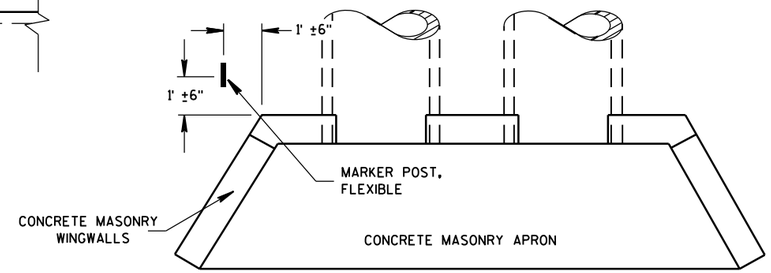
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

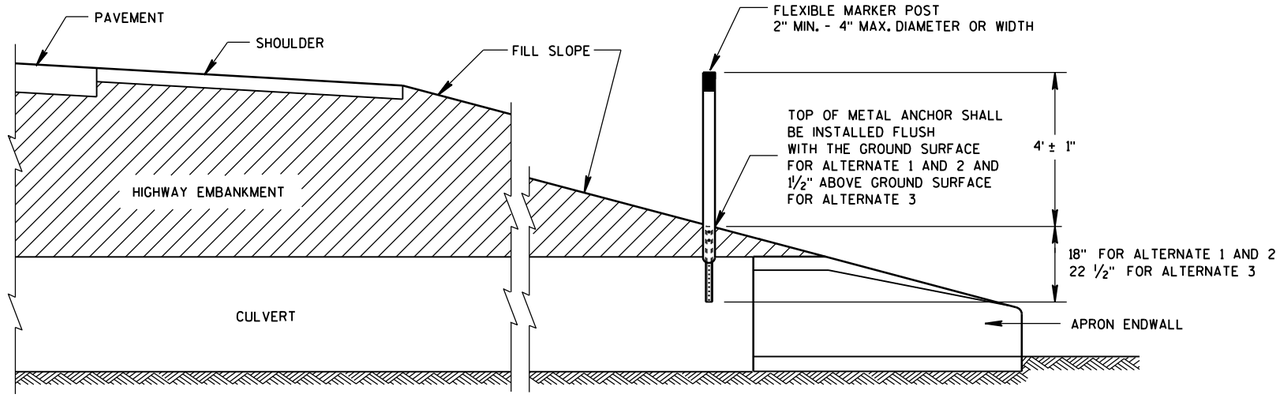
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

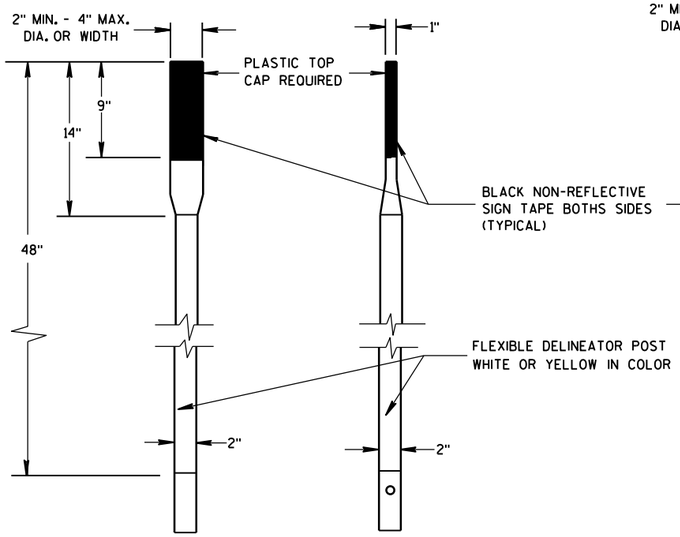
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

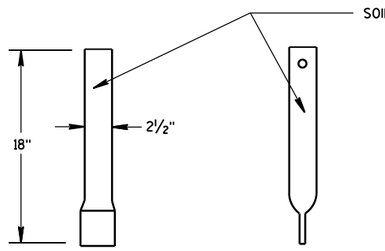
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S.D.D. 15 A 3-2a

6

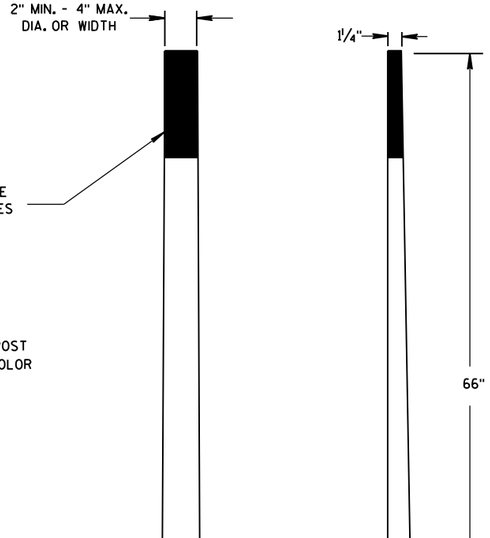
S.D.D. 15 A 3-2a





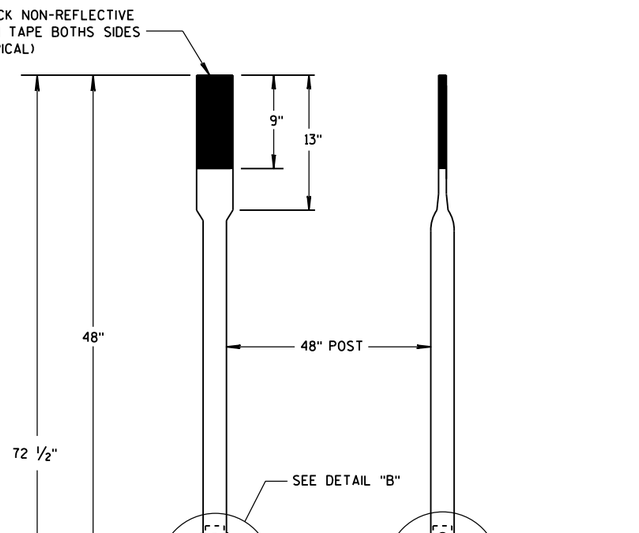
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

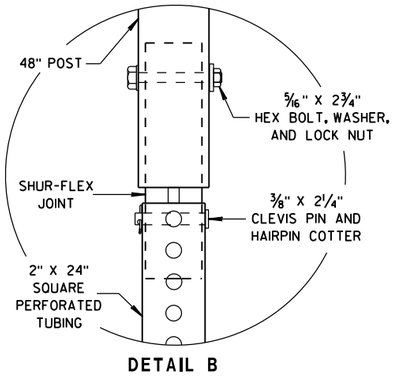
ALTERNATE 2



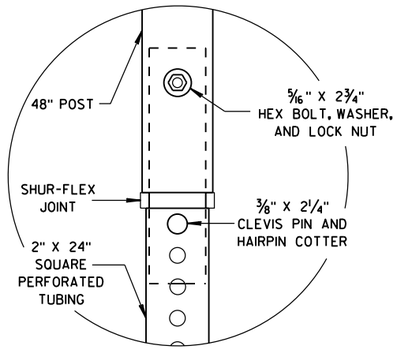
FRONT VIEW SIDE VIEW

ALTERNATE 3

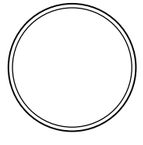
FLEXIBLE MARKER POSTS



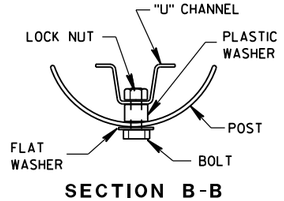
DETAIL B



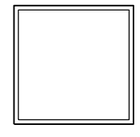
DETAIL C



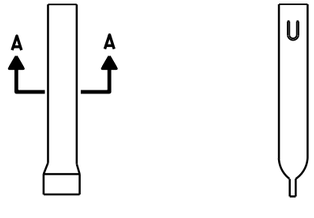
SECTION A-A



SECTION B-B

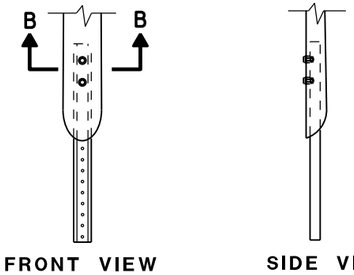


SECTION C-C



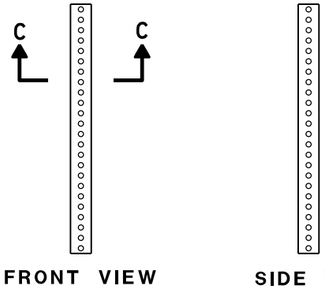
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

ALTERNATE 2



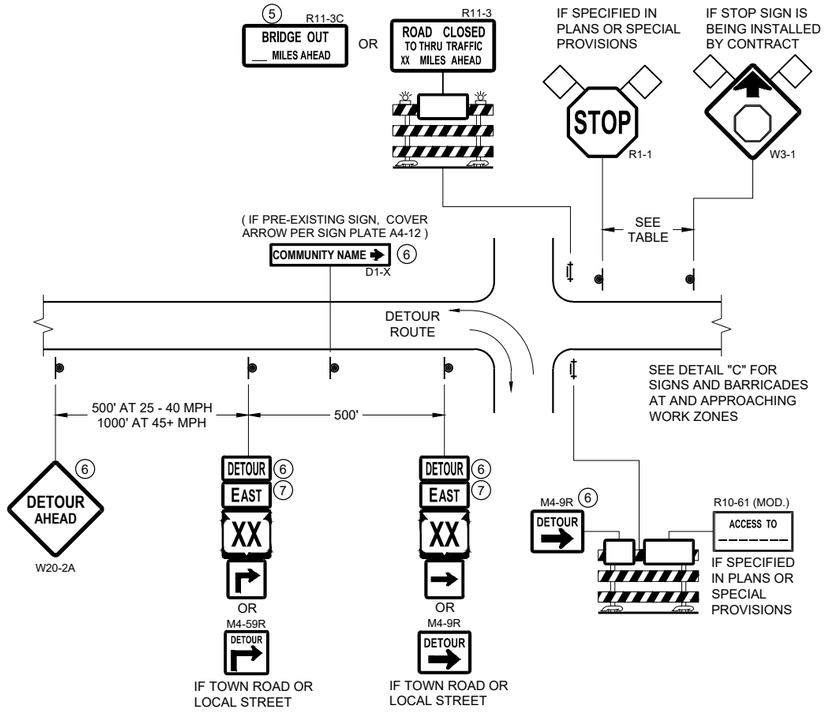
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS

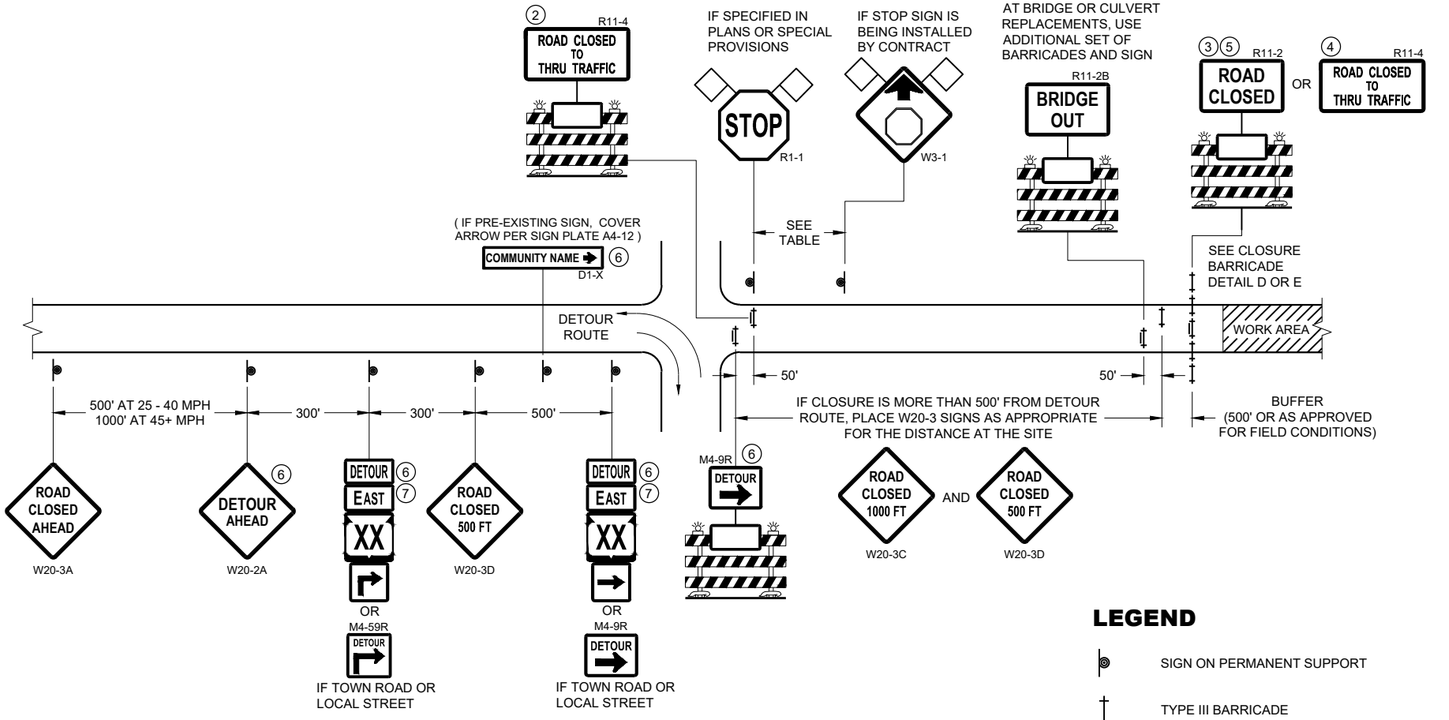
FLEXIBLE MARKER POST FOR CULVERT END	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
10/1/2012 DATE	/S/ Travis Feltes STATE TRAFFIC ENGINEER
FHWA	

6
S.D.D. 15 A 3-2b



DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN OR EQUAL TO ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



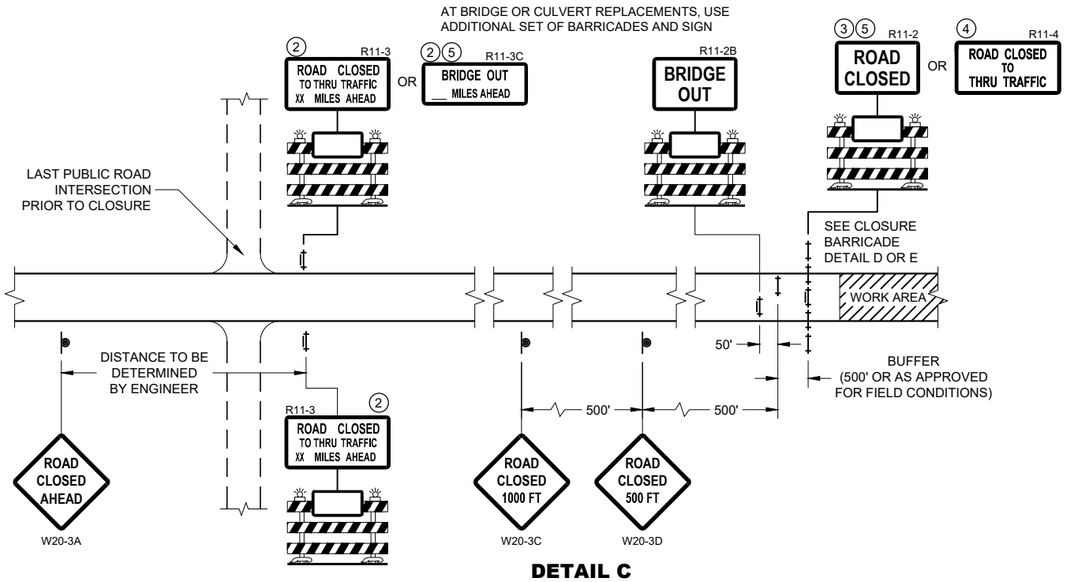
DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)

DETOUR M4 - 8
EAST M3 - X
XX M1 - 4 OR XX M1 - 6 OR COUNTY X M1 - 5A
M05 - 1 OR M06 - 1



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

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

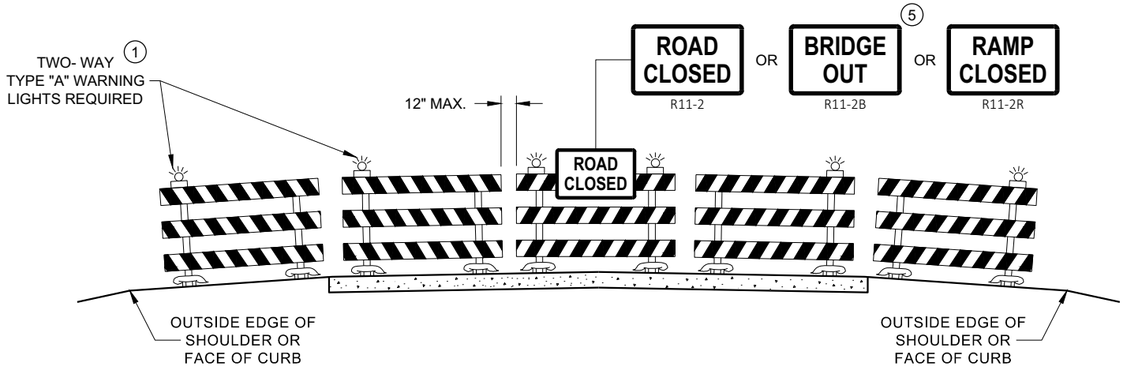
APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

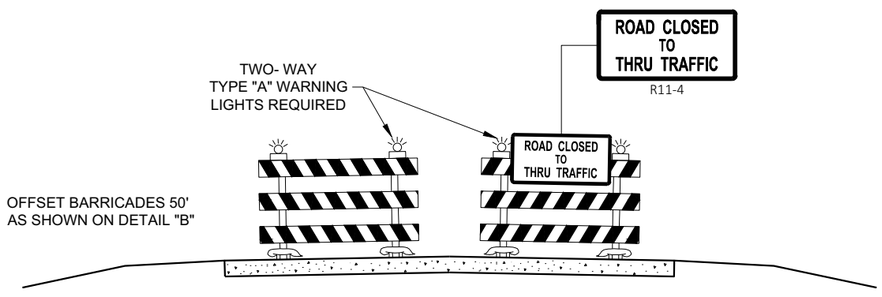
6

SDD 15C02 - 08a

SDD 15C02 - 08a



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA

6

SDD 15C02 - 08b

6

SDD 15C02 - 08b

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DETOUR — M4 - 8
- EAST — M3 - X
- XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A
- M05 - 1 OR M06 - 1 OR M06 - 1

GENERAL NOTES

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

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

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

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

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

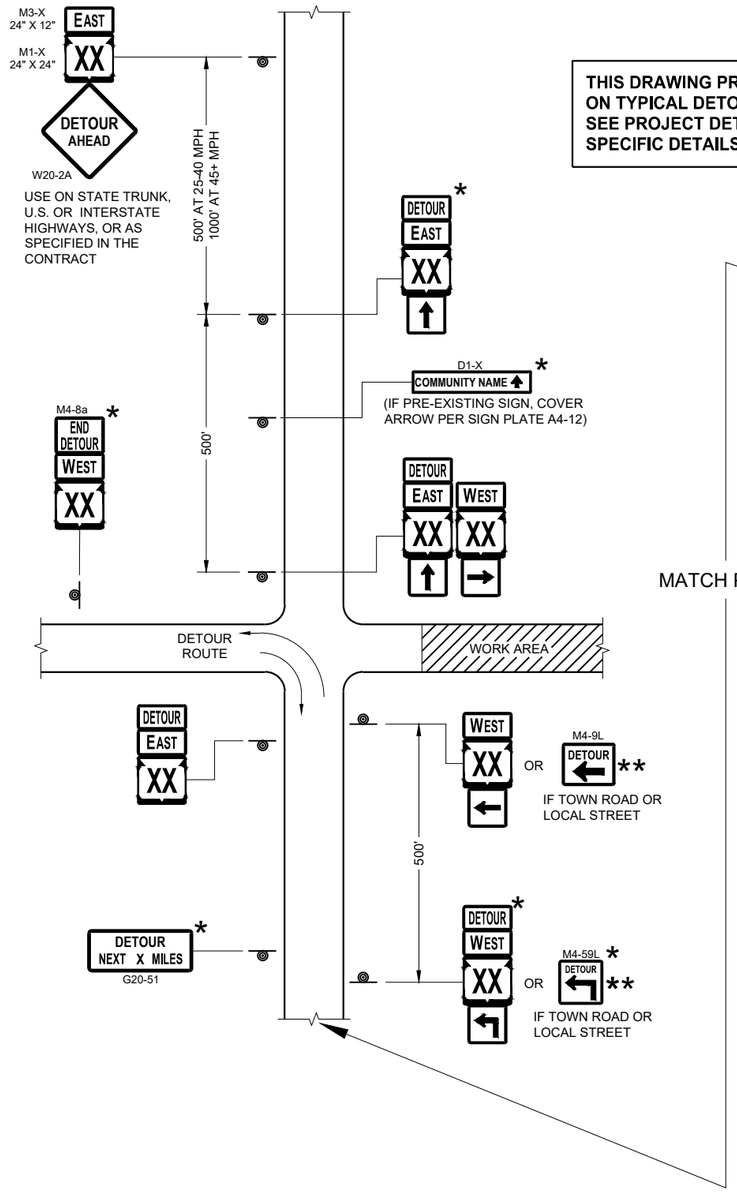
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

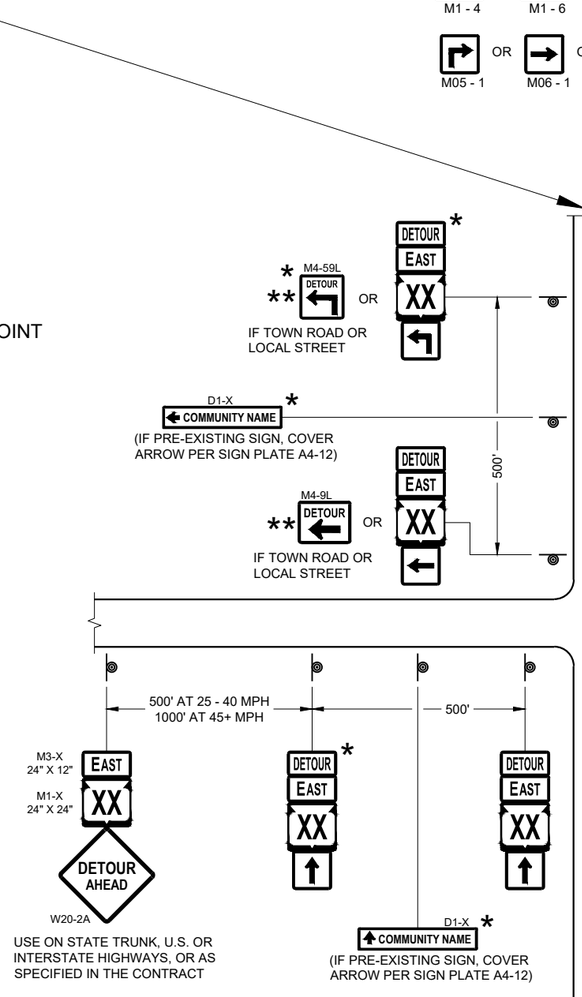
- M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-9 AND M4-59 SHALL BE 30" X 24"
- M4-8a SHALL BE 24" X 18"
- G20-51 SHALL BE 60" X 24"
- W20-2A SHALL BE 48" X 48"
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

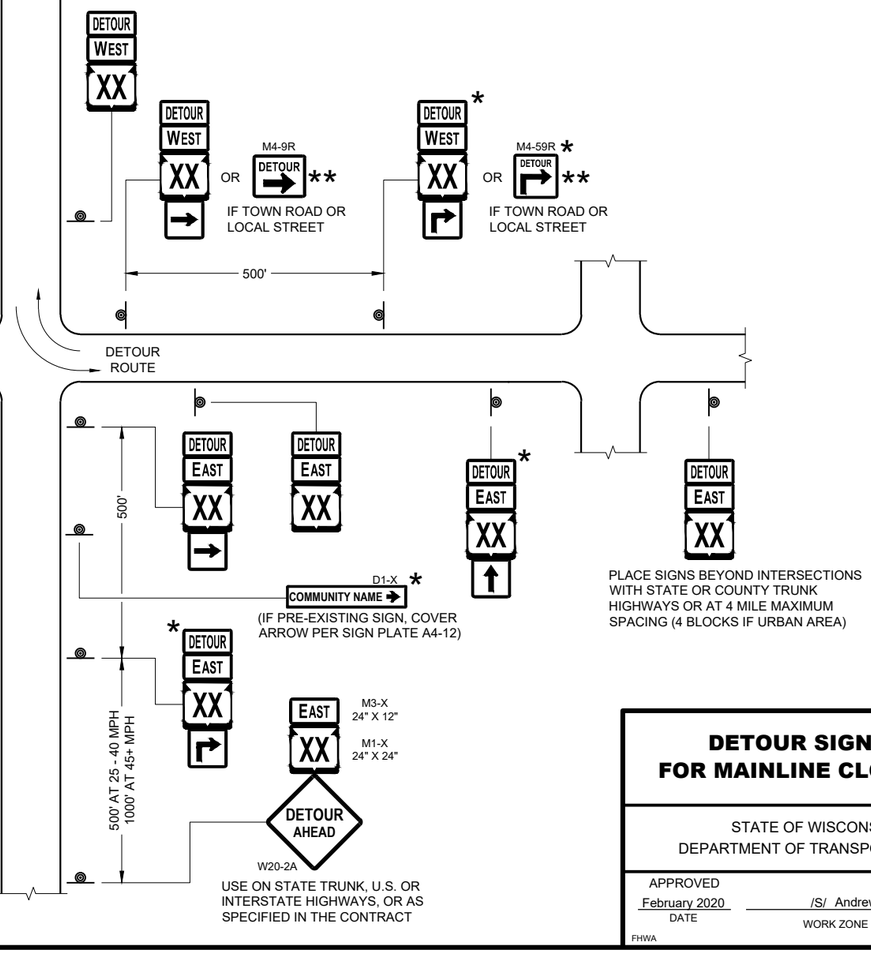
* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.



MATCH POINT





SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD SHEET 15C02 - SHEET "a"

DETAIL F
DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

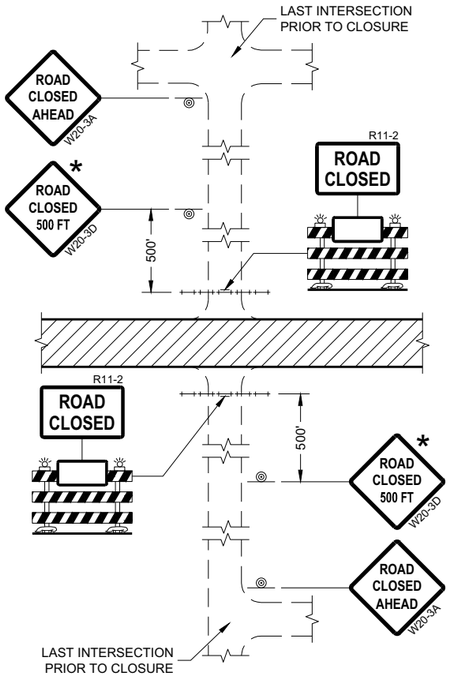
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

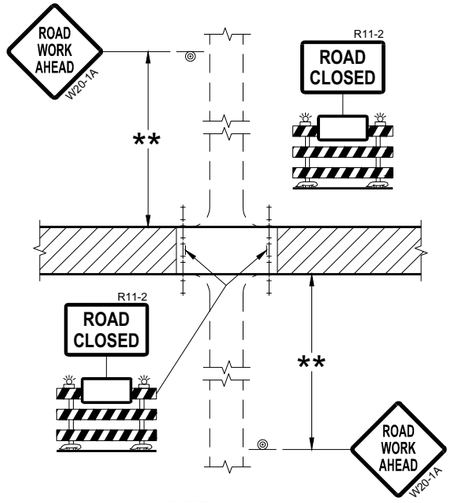
SDD 15C02 - 08c

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SDD 15C02 - 08c



DETAIL 1
(NO ACCESS TO PROJECT)



DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT)

GENERAL NOTES

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

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

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

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

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

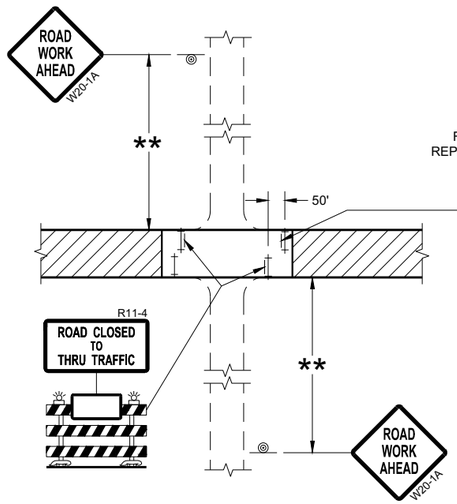
TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

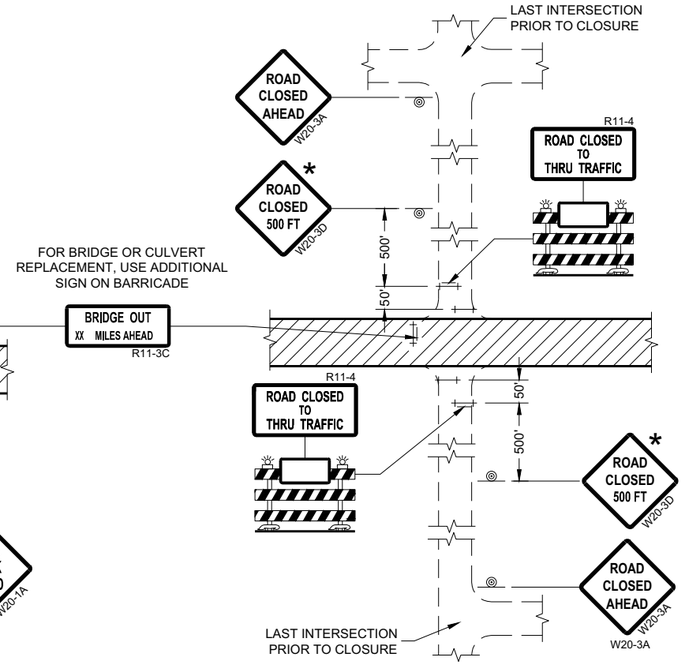
ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

* OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FEET OR LESS FROM THE WORK ZONE.

** 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.



DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED.
CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)



DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

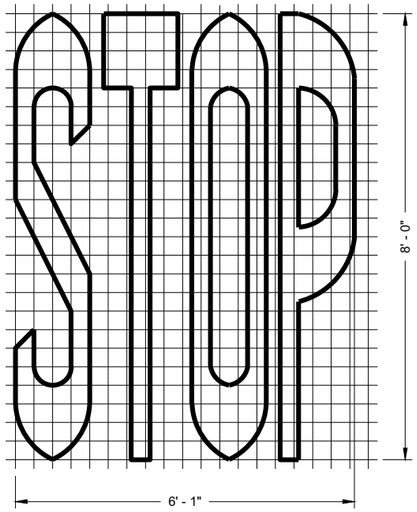
/S/ Andrew Heidtke
WORK ZONE ENGINEER

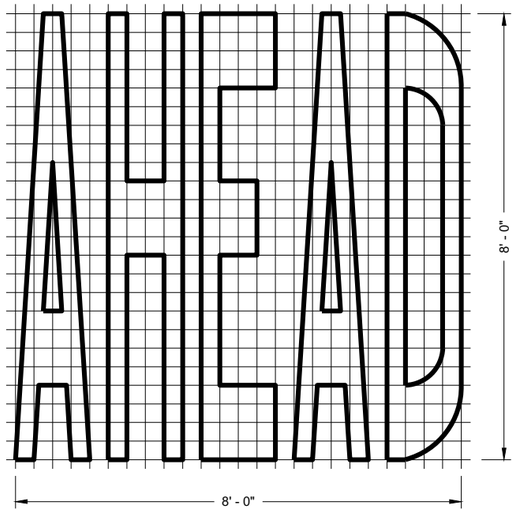
FHWA

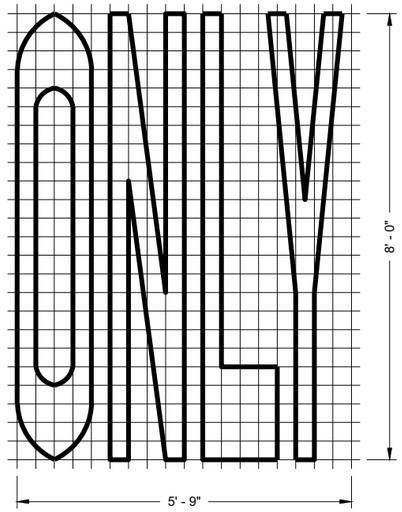
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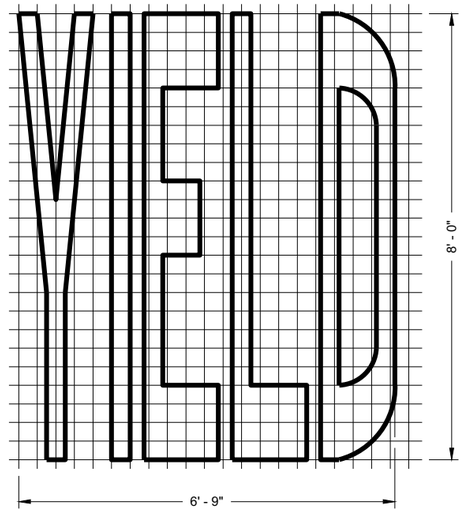
SDD 15C03 - 05

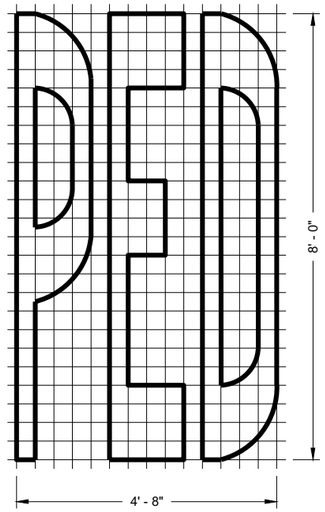
SDD 15C03 - 05

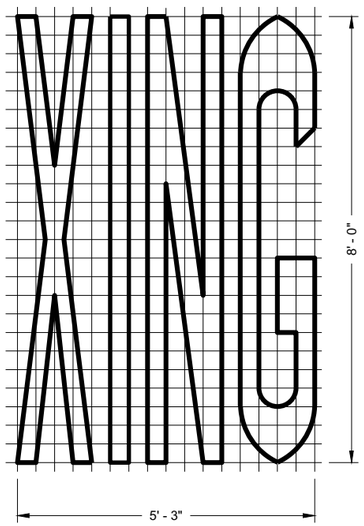


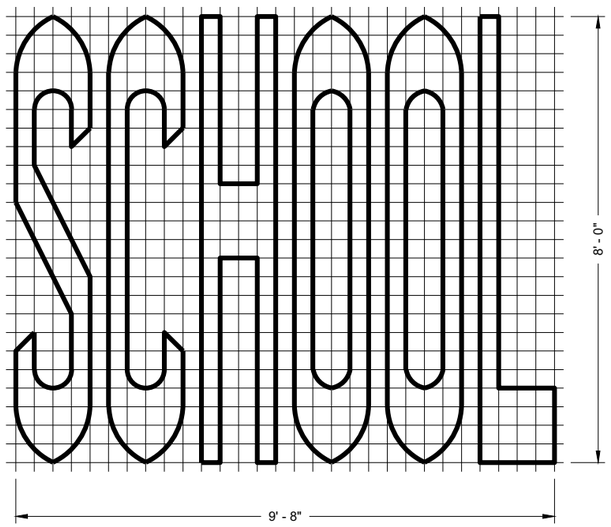




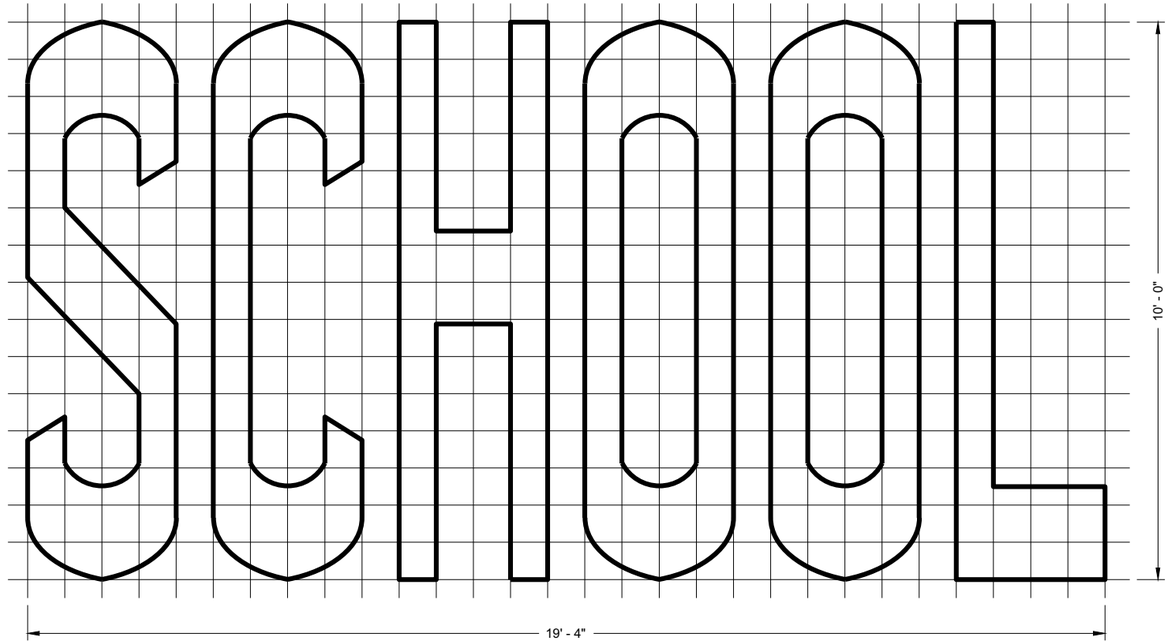








SINGLE LANE



TWO - LANE

GENERAL NOTES

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

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

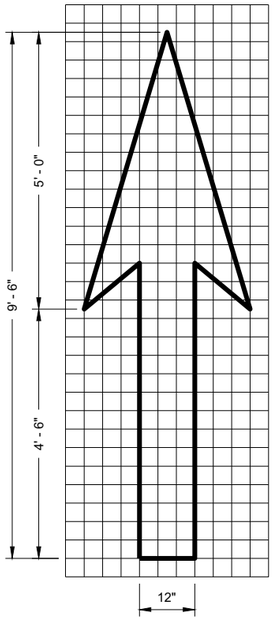
FHWA

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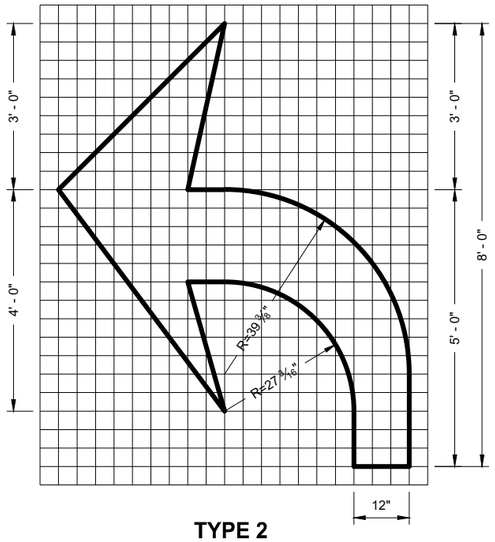
SDD 15C07 - 15b

GENERAL NOTES

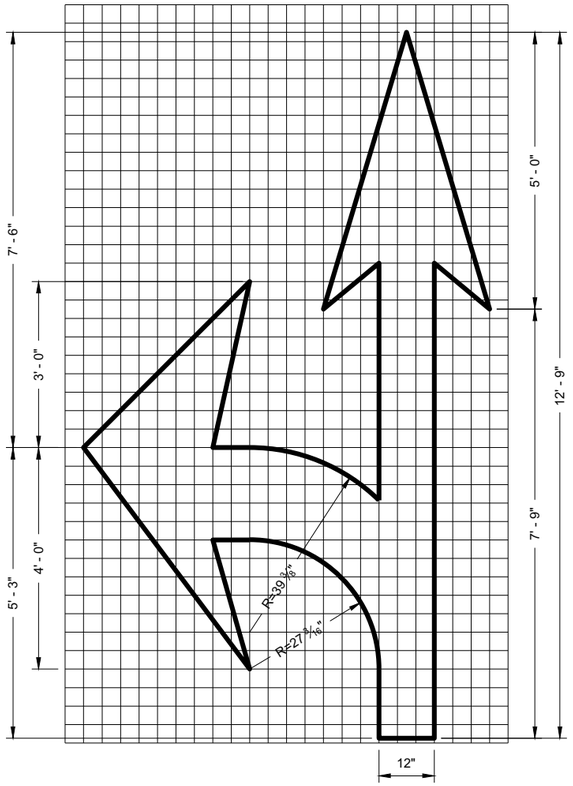
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



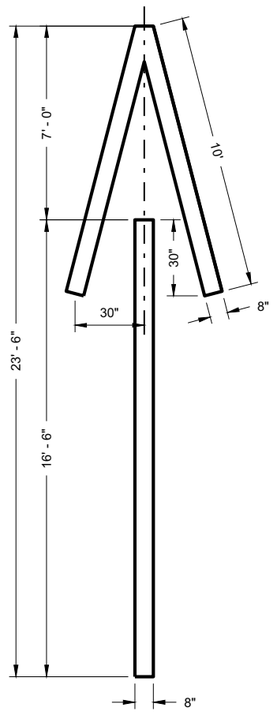
TYPE 1



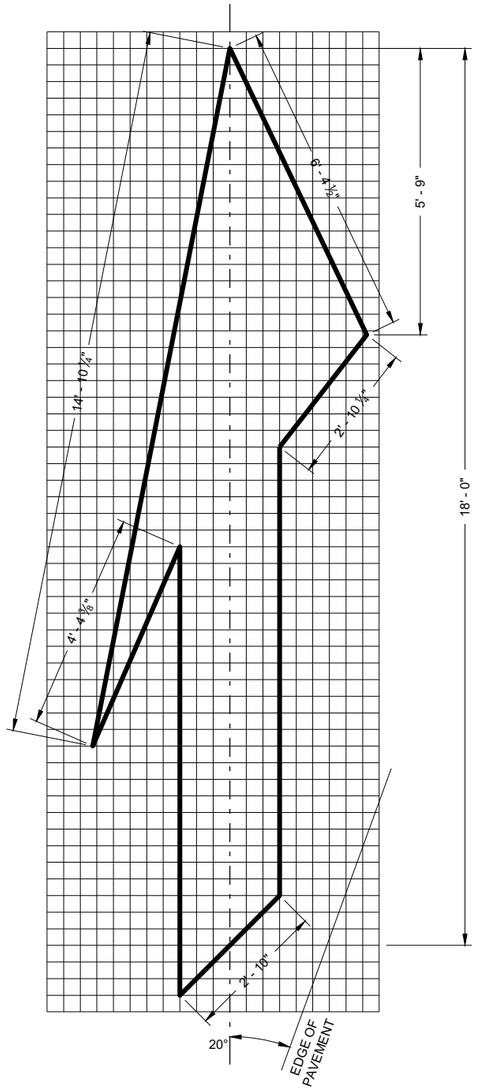
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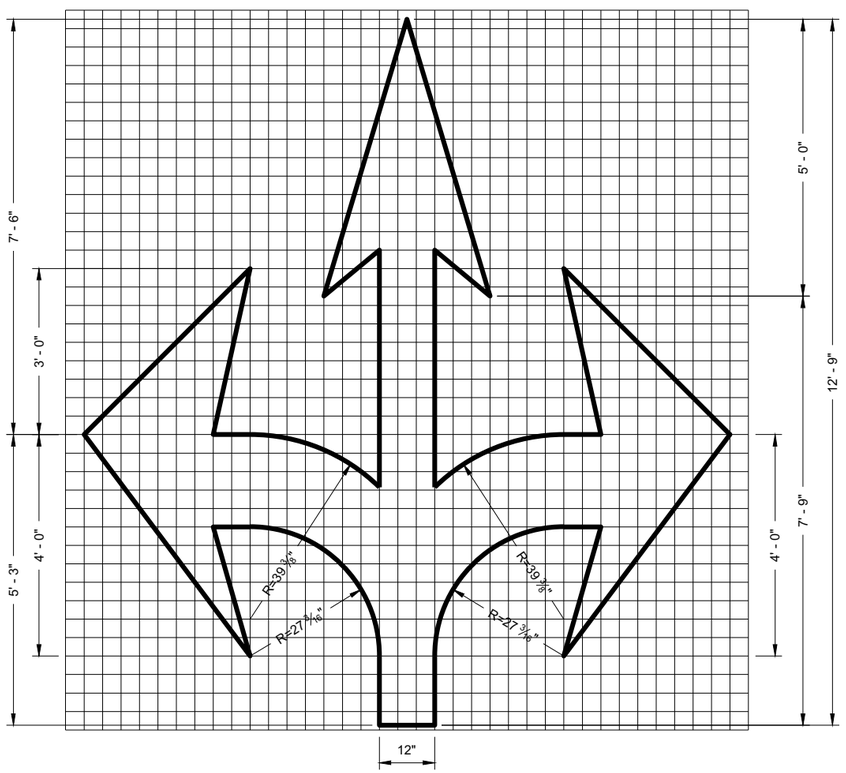
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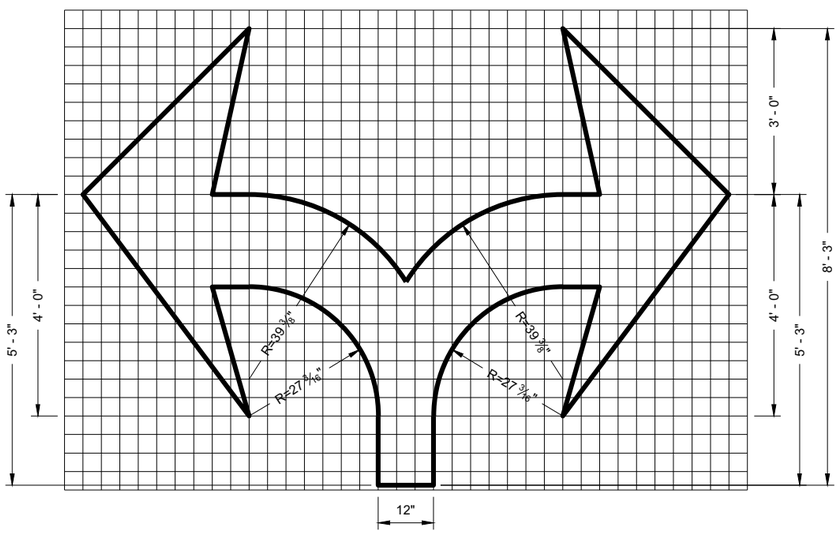
TYPE 4



TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

FHWA

6

SDD 15C07 - 15c

6

SDD 15C07 - 15c

GENERAL NOTES

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

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

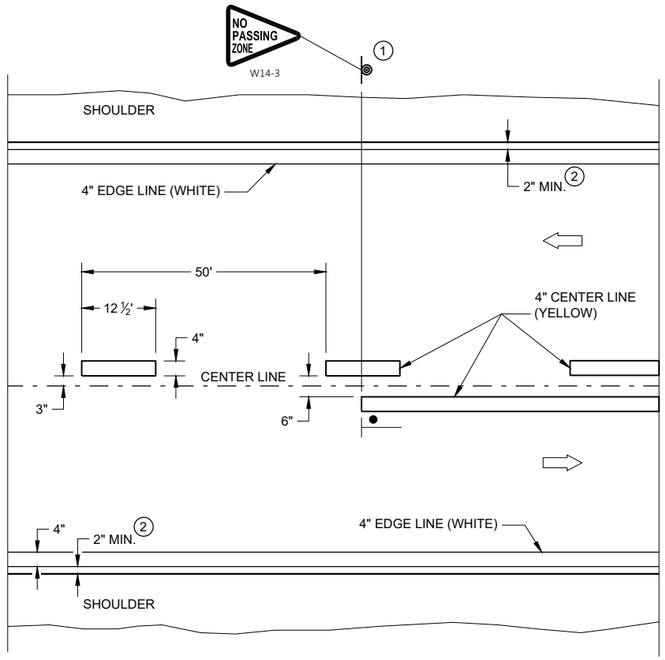
(2) MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

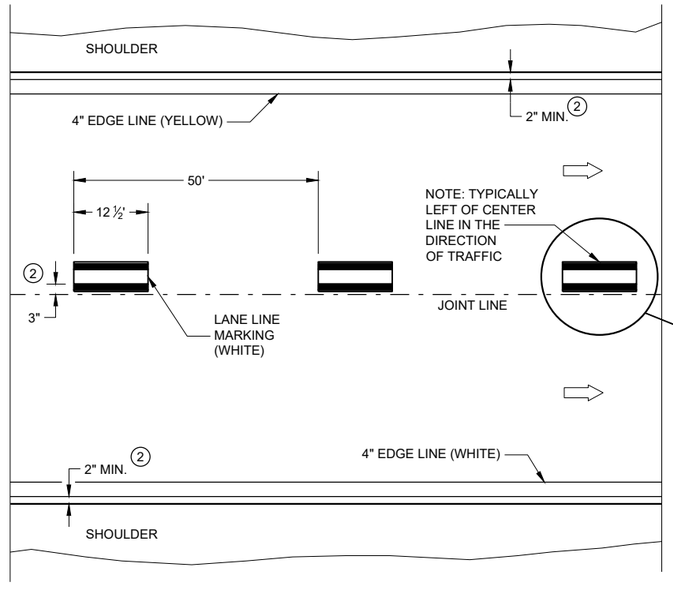
"T" MARKING

SIGN ON PERMANENT SUPPORT

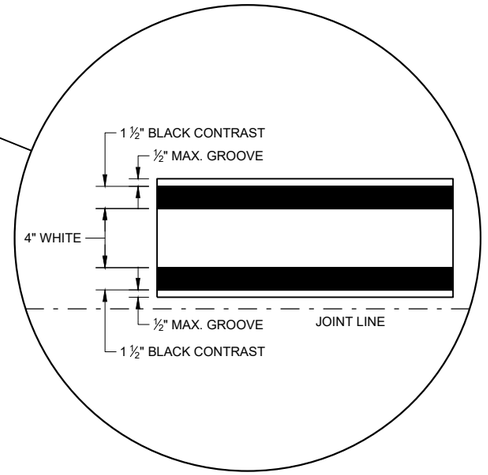
DIRECTION OF TRAFFIC



TWO WAY TRAFFIC



ONE WAY TRAFFIC



PERMANENT PAVEMENT MARKING

PERMANENT LONGITUDINAL PAVEMENT MARKINGS

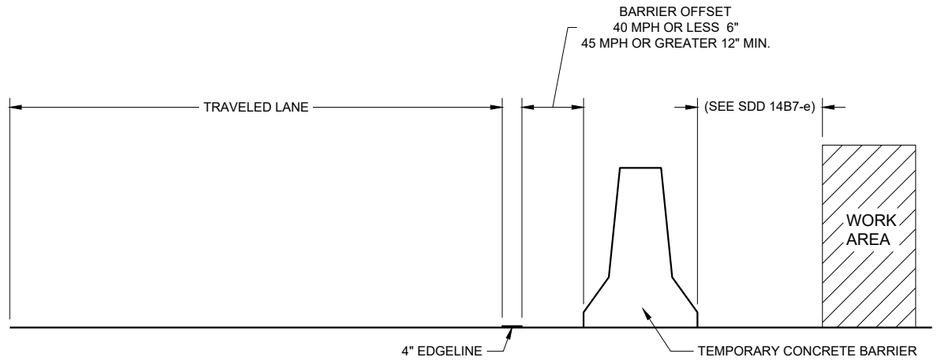
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022 — DATE
/S/ Jeannie Silver — STATEWIDE SIGNING AND M ENGINEER

FHWA

SDD15C08 - 21a

SDD15C08 - 21a



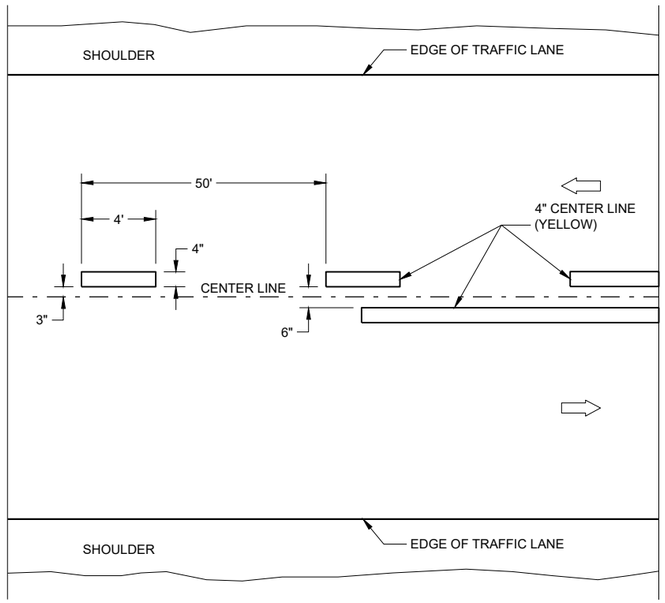
TEMPORARY BARRIER OFFSET FROM EDGELINE

GENERAL NOTES

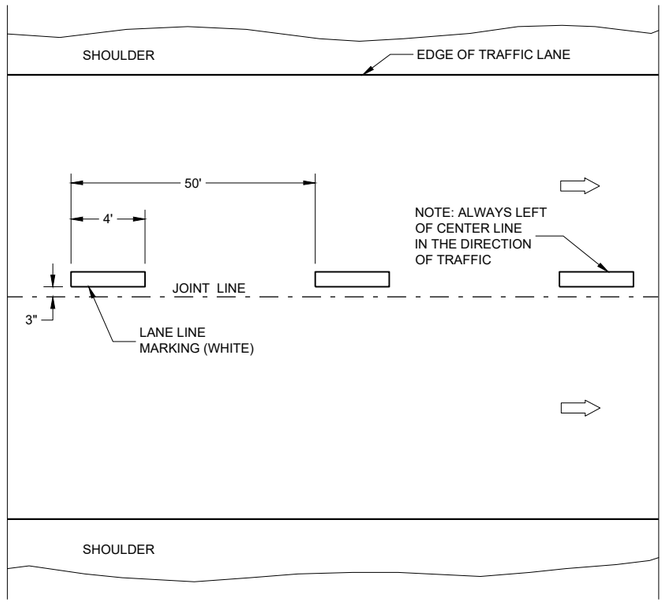
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

LEGEND

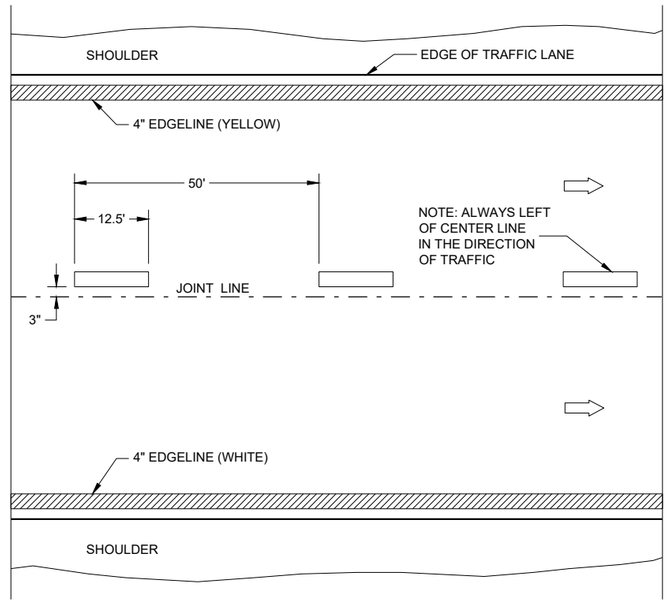
DIRECTION OF TRAFFIC



TWO WAY TRAFFIC



ONE WAY TRAFFIC



FREEWAYS AND EXPRESSWAYS

TEMPORARY PAVEMENT MARKING

6

SDD 15C08 - 21b

TEMPORARY LONGITUDINAL PAVEMENT MARKING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2022 DATE	/S/ Jeannie Silver STATEWIDE SIGNING AND M ENGINEER

FHWA

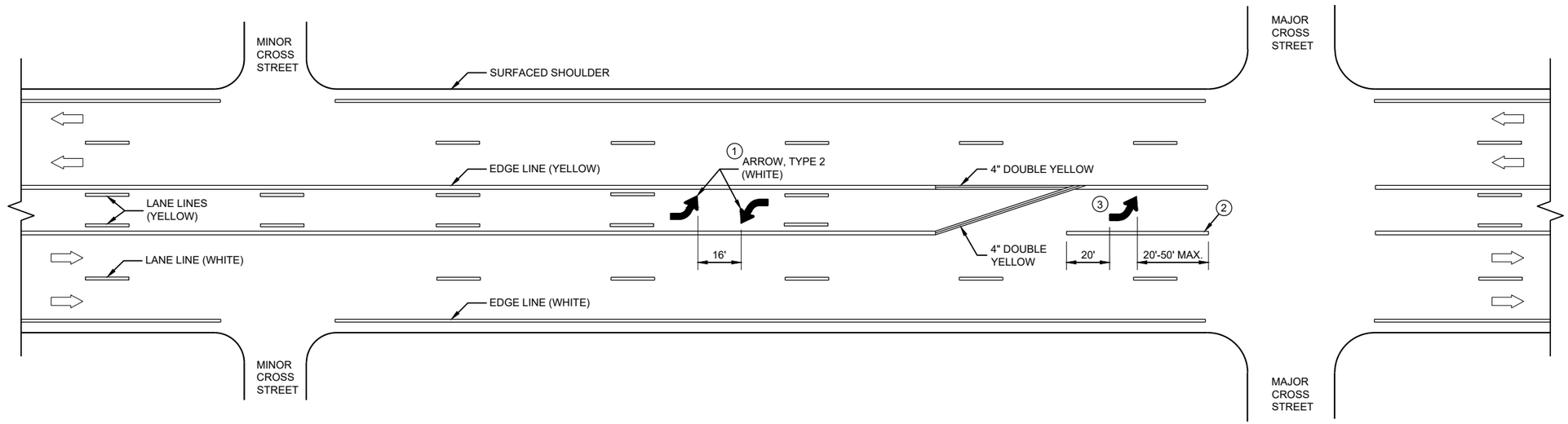
6

SDD 15C08 - 21b

GENERAL NOTES

1. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
2. 8" WHITE
3. TURN BAY LENGTH OF LESS THAN 48' DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT.

DIRECTION OF TRAFFIC



TWO WAY LEFT TURN LANE

6

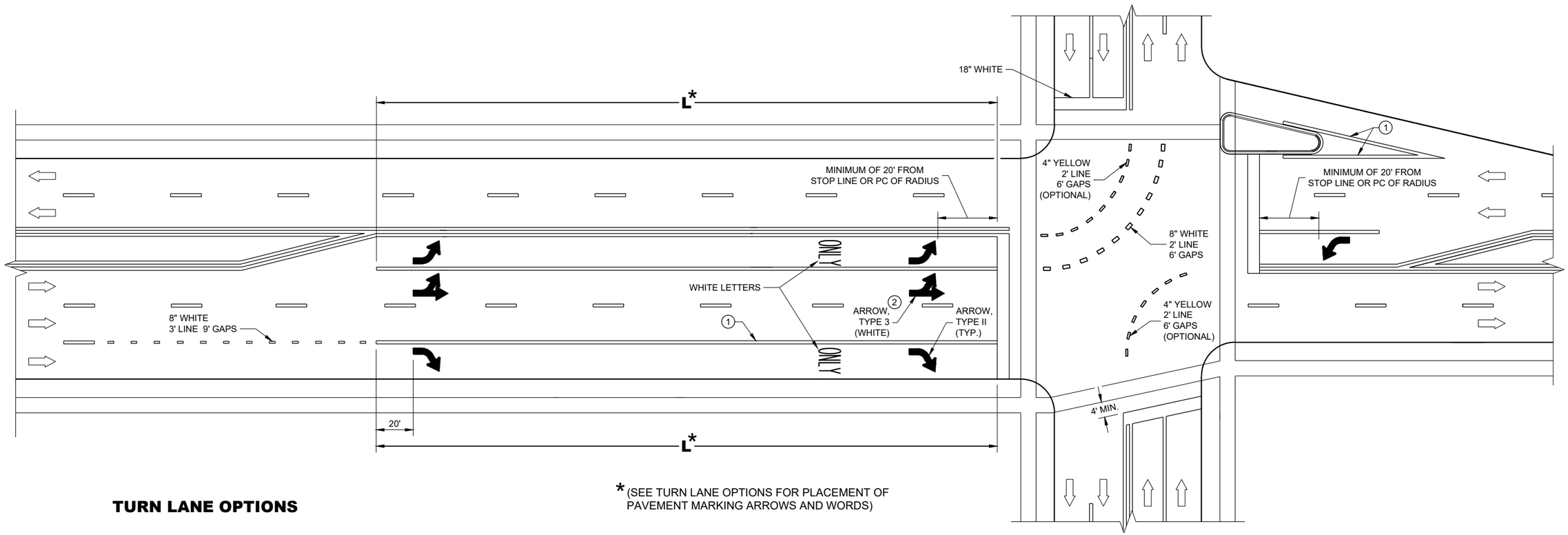
SDD 15C08 - 21c

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

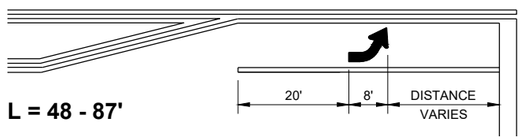
SDD 15C08 - 21c



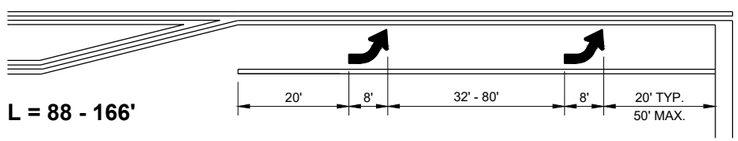
* (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

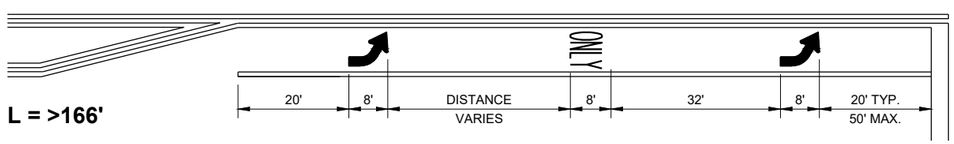
LENGTH OF TURN BAY (**L**) OF 0 - 47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48 - 87'



L = 88 - 166'



L = >166'

GENERAL NOTES

1. 8" WHITE
2. QUANTITY AND LOCATION OF TYPE 3 ARROWS ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION IN THE SAME DIRECTION OF TRAVEL, THE ARROWS AND "ONLY" MARKING MAY BE ELIMINATED.

DIRECTION OF TRAFFIC

L = LENGTH OF TURN BAY

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

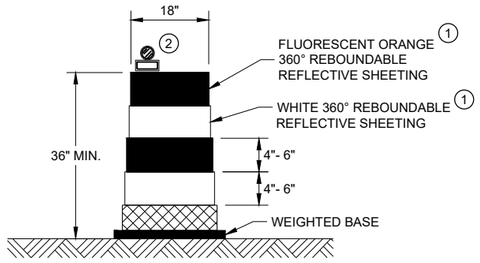
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SDD 15C08 - 21d

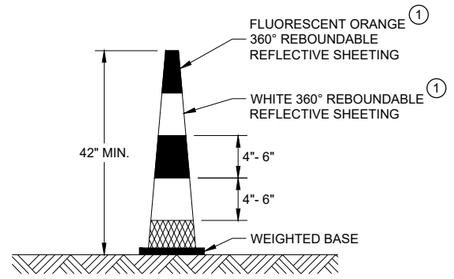
GENERAL NOTES

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

(2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.

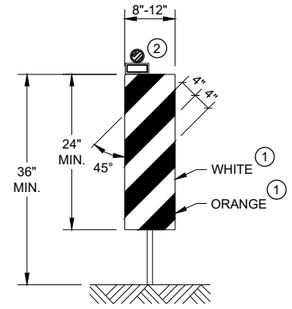


DRUM



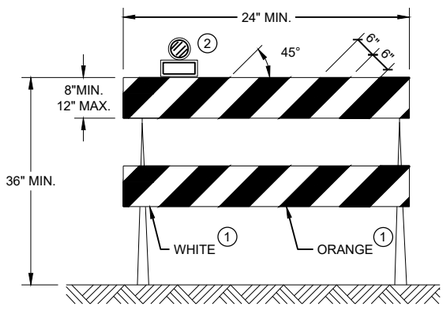
42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS



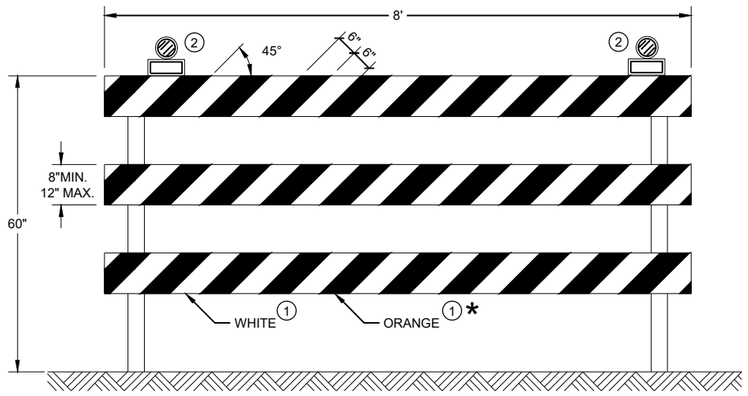
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO
THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP
TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2021
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15C11 - 09b

6

SDD 15C11 - 09b

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

TEMPORARY PORTABLE RUMBLE STRIP ARRAY

DIRECTION OF TRAFFIC

WORK AREA

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

GENERAL NOTES

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

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

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

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

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

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

FLAGGING

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

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

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

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

TEMPORARY PORTABLE RUMBLE STRIPS

UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

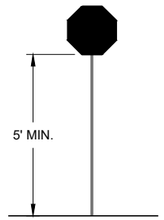
(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

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

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

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



STOP/SLOW PADDLE ON SUPPORT STAFF

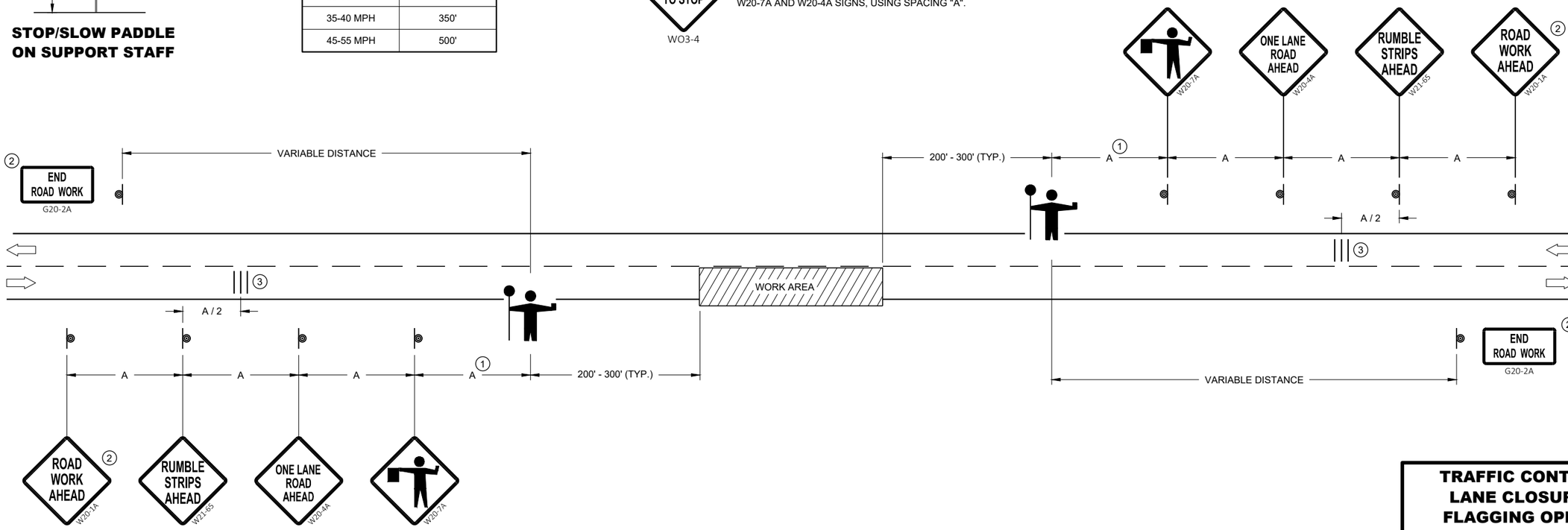
SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

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



WO3-4

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



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2021 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

FHWA

SDD 15C12 - 08

SDD 15C12 - 08

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

TEMPORARY PORTABLE RUMBLE STRIP ARRAY

DIRECTION OF TRAFFIC

WORK AREA

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

GENERAL NOTES

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

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

FLAGGING

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

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

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

TEMPORARY PORTABLE RUMBLE STRIPS

UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

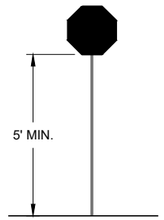
(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

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

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

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



STOP/SLOW PADDLE ON SUPPORT STAFF

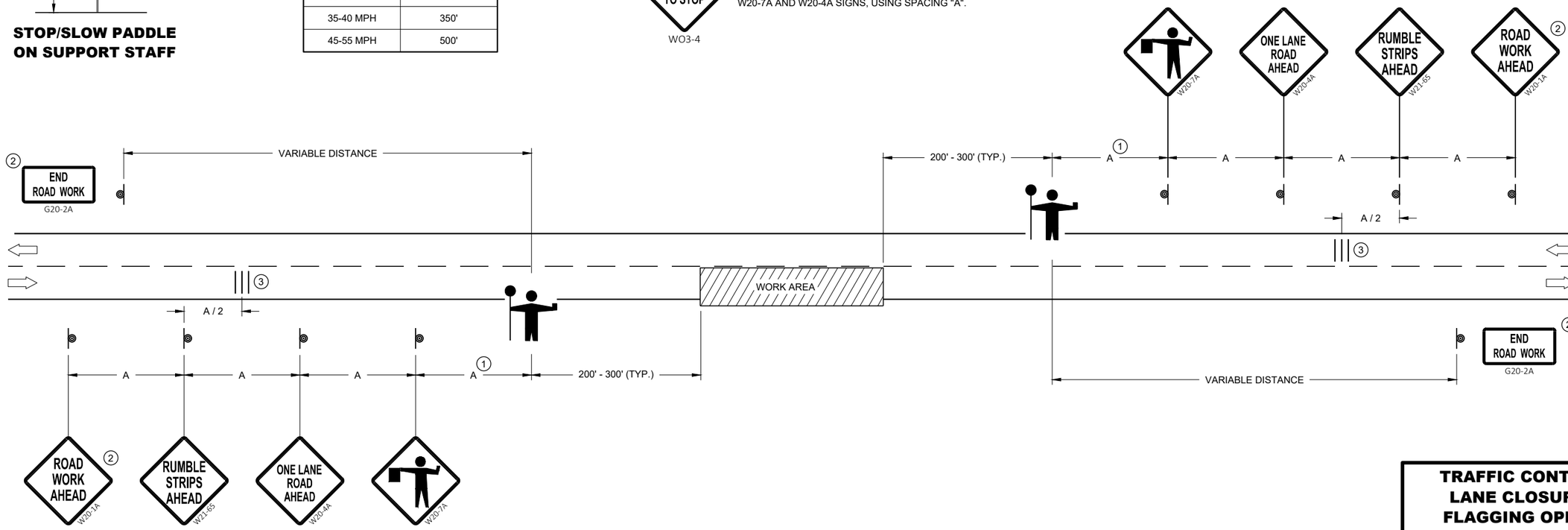
SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

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



WO3-4

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



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

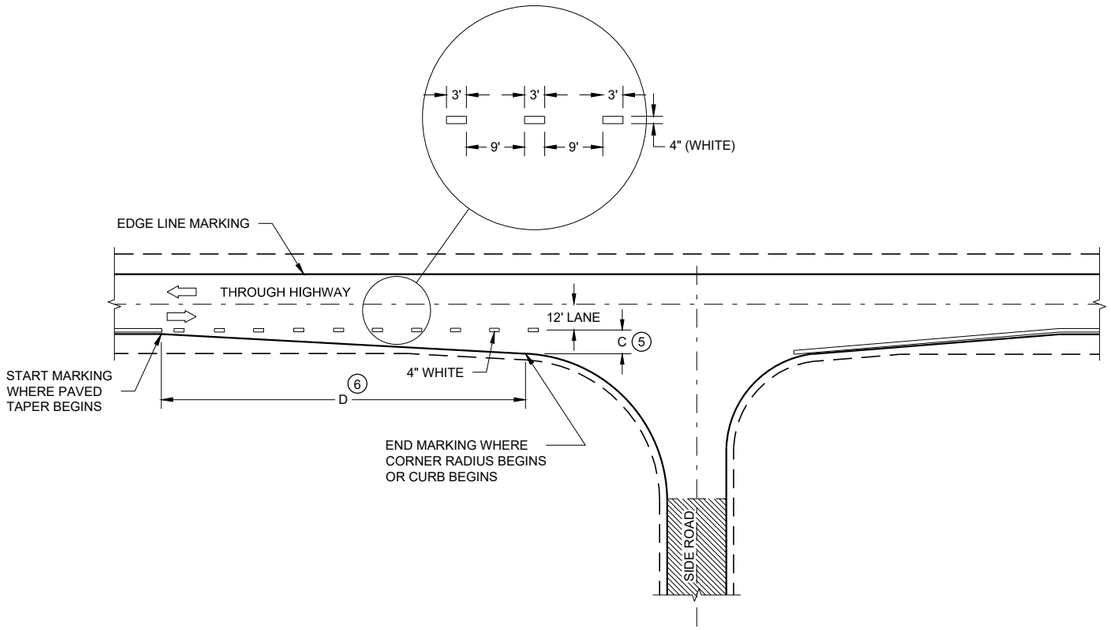
FHWA

6

SDD 15C12 - 09a

6

SDD 15C12 - 09a



MINOR INTERSECTION

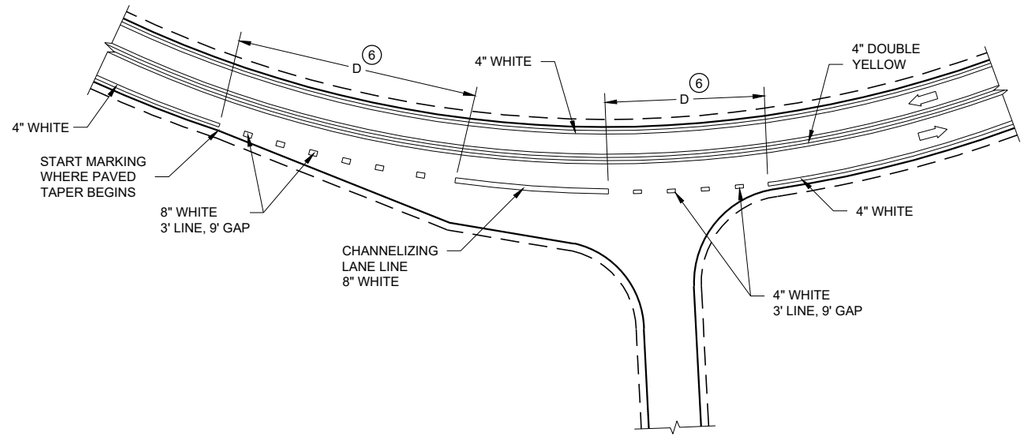
GENERAL NOTES

OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES THROUGH DRIVEWAYS.

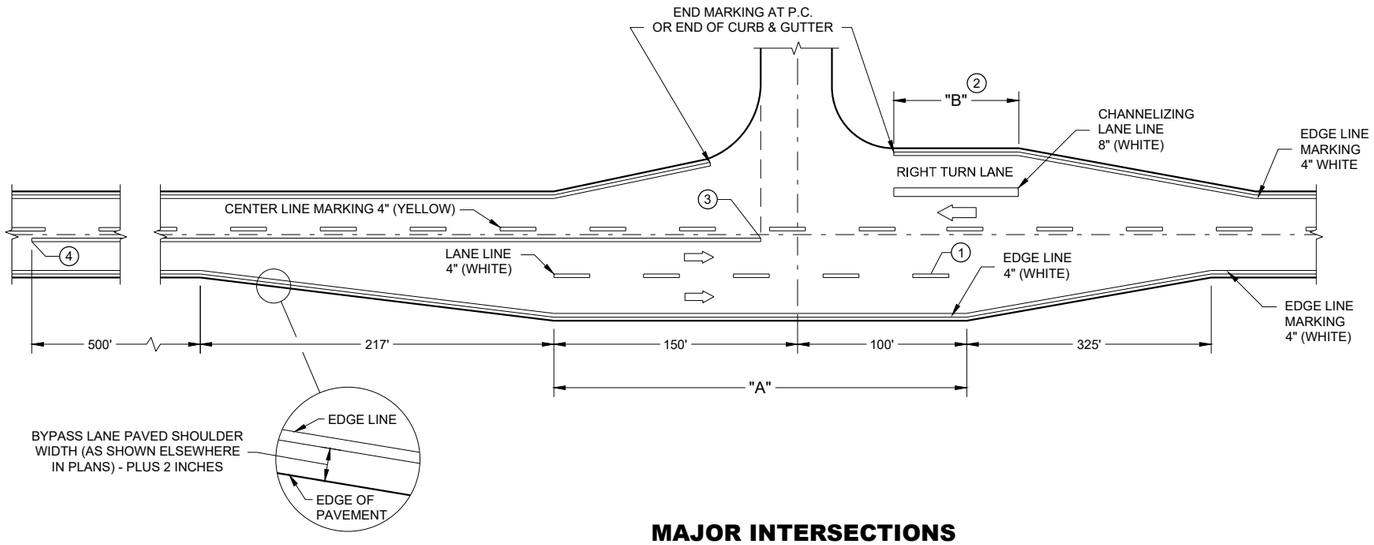
1. WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
2. WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
3. BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
4. BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.
5. WHEN DISTANCE "C" IS LESS THAN 4 FEET, OMIT DOTTED EXTENSION.
6. WHEN DISTANCE "D" IS LESS THAN 50 FEET, OMIT DOTTED EXTENSION.

LEGEND

DIRECTION OF TRAVEL



INTERSECTION ON OUTSIDE OF CURVE



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

PAVEMENT MARKING (INTERSECTIONS)

LEGEND

V1 WORK VEHICLE

V2 SHADOW VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

FLASHING ARROW PANEL (CAUTION)

WORK AREA

DIRECTION OF TRAFFIC

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

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

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

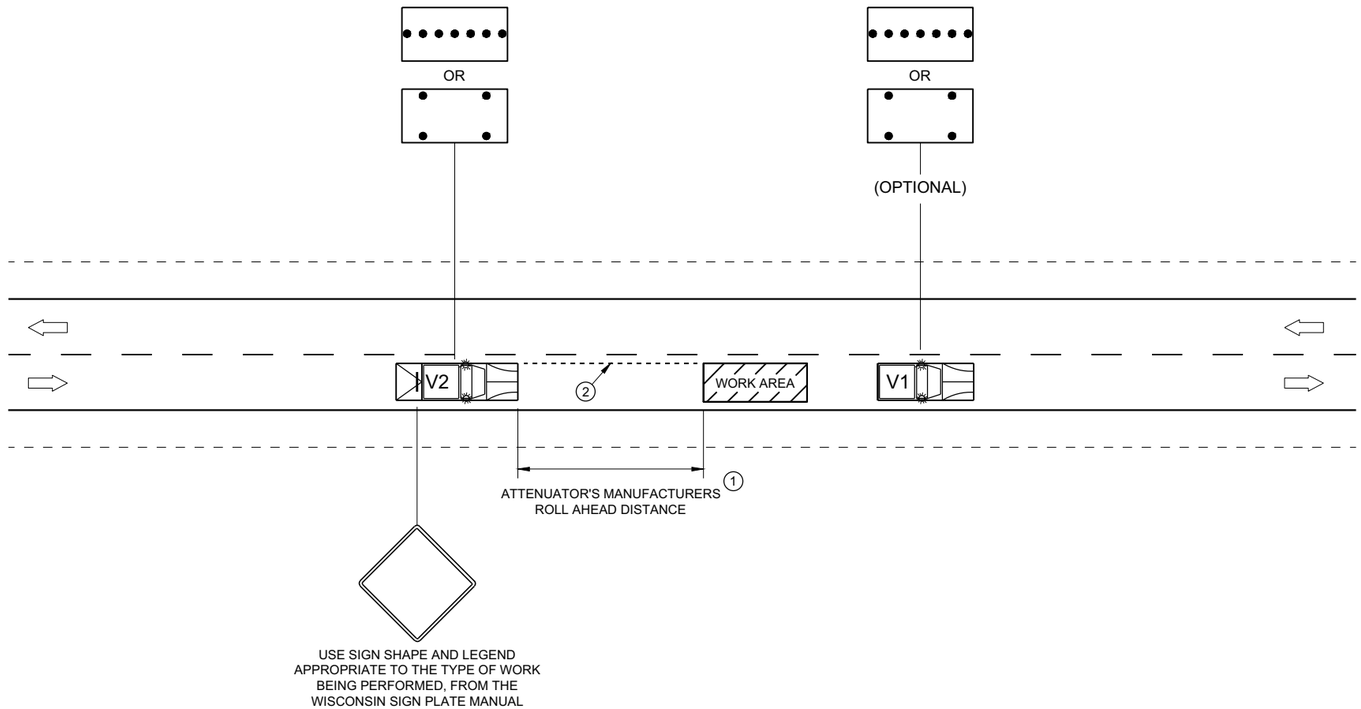
ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

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

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

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

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

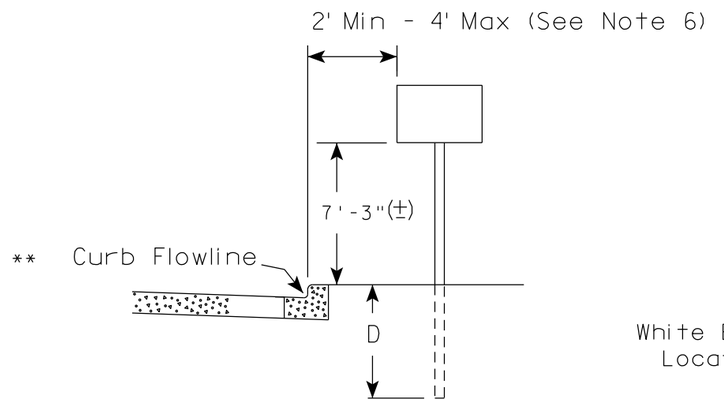


TRAFFIC CONTROL, MOBILE OPERATIONS ON AN UNDIVIDED ROADWAY

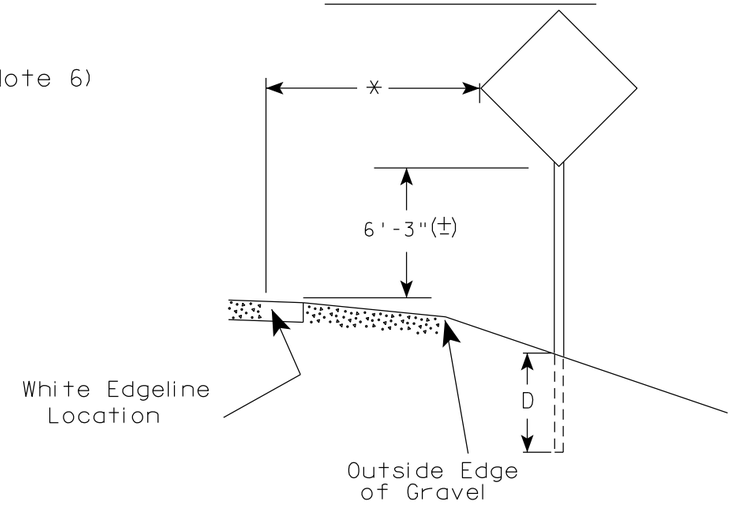
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

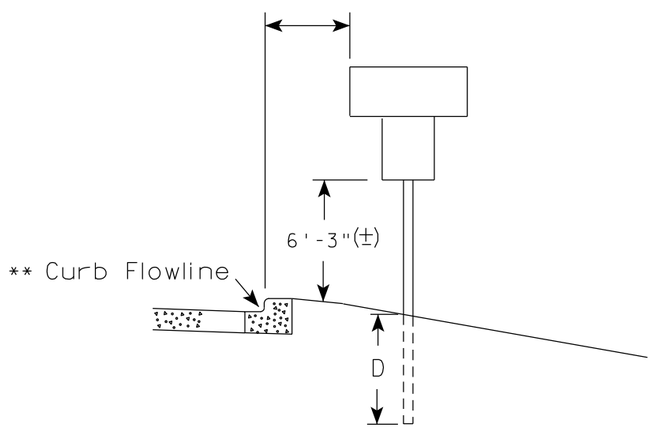
APPROVED
February 2021 — DATE
/S/ Andrew Heidtke — STATEWIDE WORK ZONE T SAFETY ENGINEER
FHWA

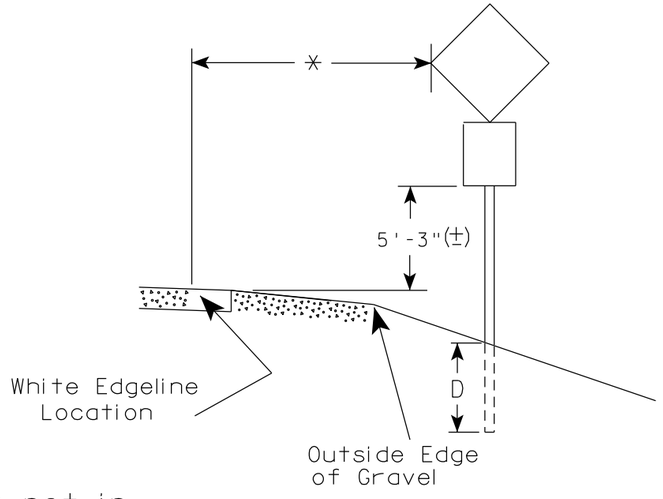
URBAN AREA



RURAL AREA (See Note 2)







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

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

POST EMBEDMENT DEPTH

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

GENERAL NOTES

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

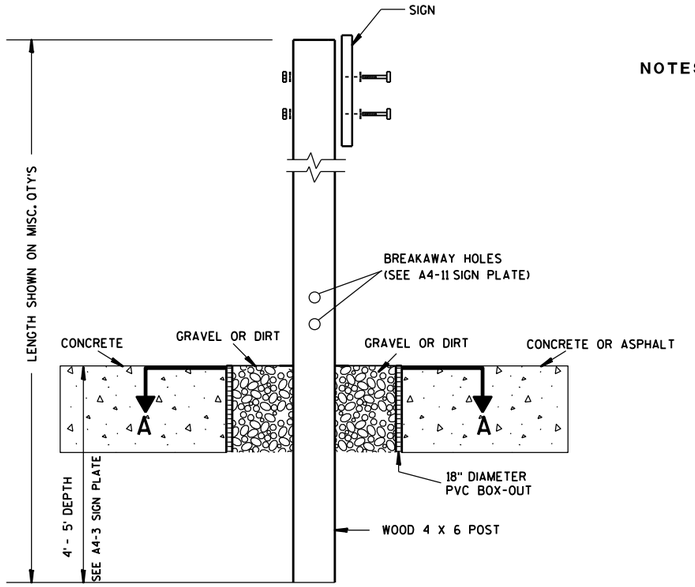
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

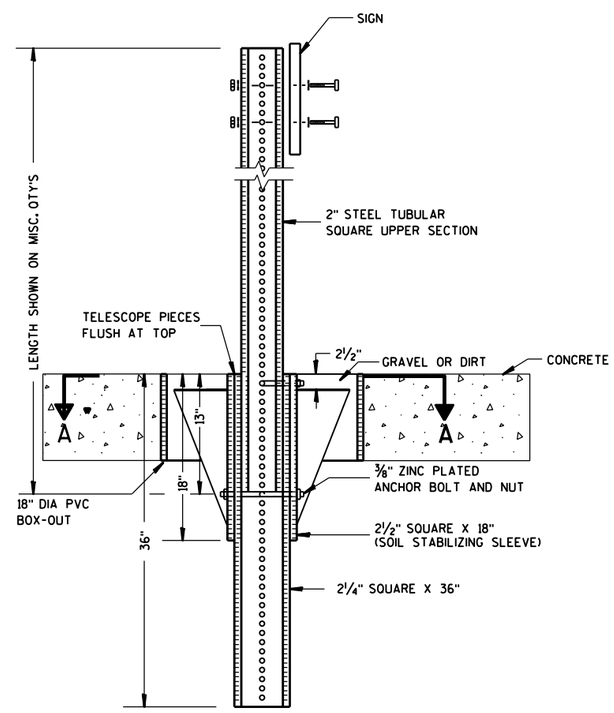
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 151	E



ELEVATION VIEW

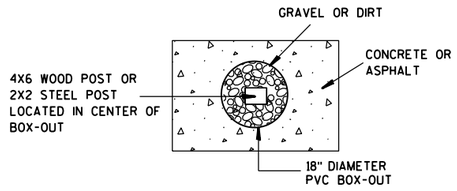
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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



ELEVATION VIEW

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



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

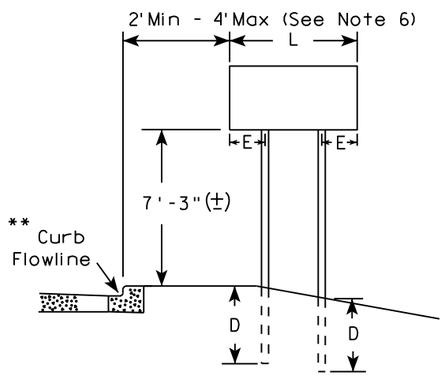
APPROVED Matthew R Rauch
for State Traffic Engineer

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

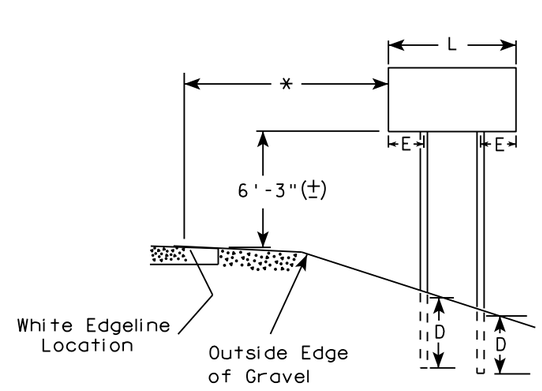
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

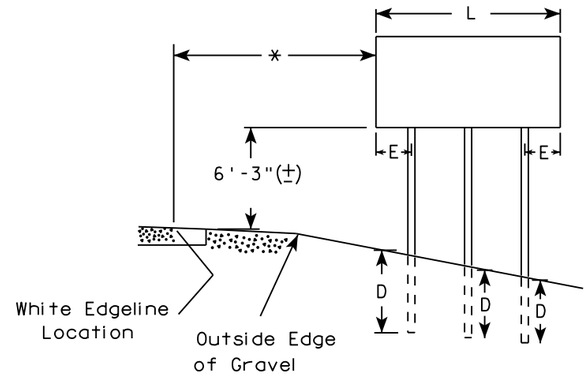
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

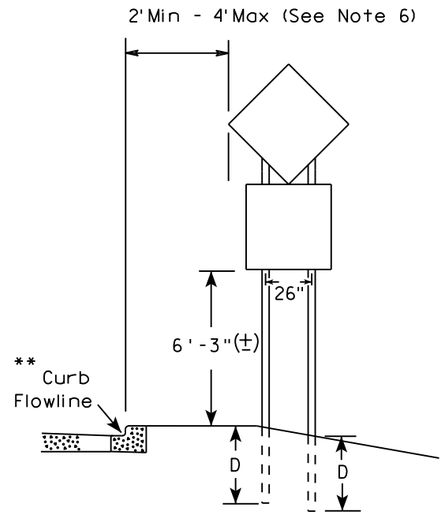
URBAN AREA



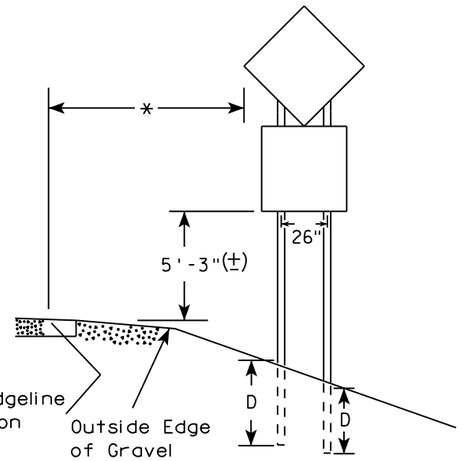
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

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

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

GENERAL NOTES

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

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

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

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

POST EMBEDMENT DEPTH

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

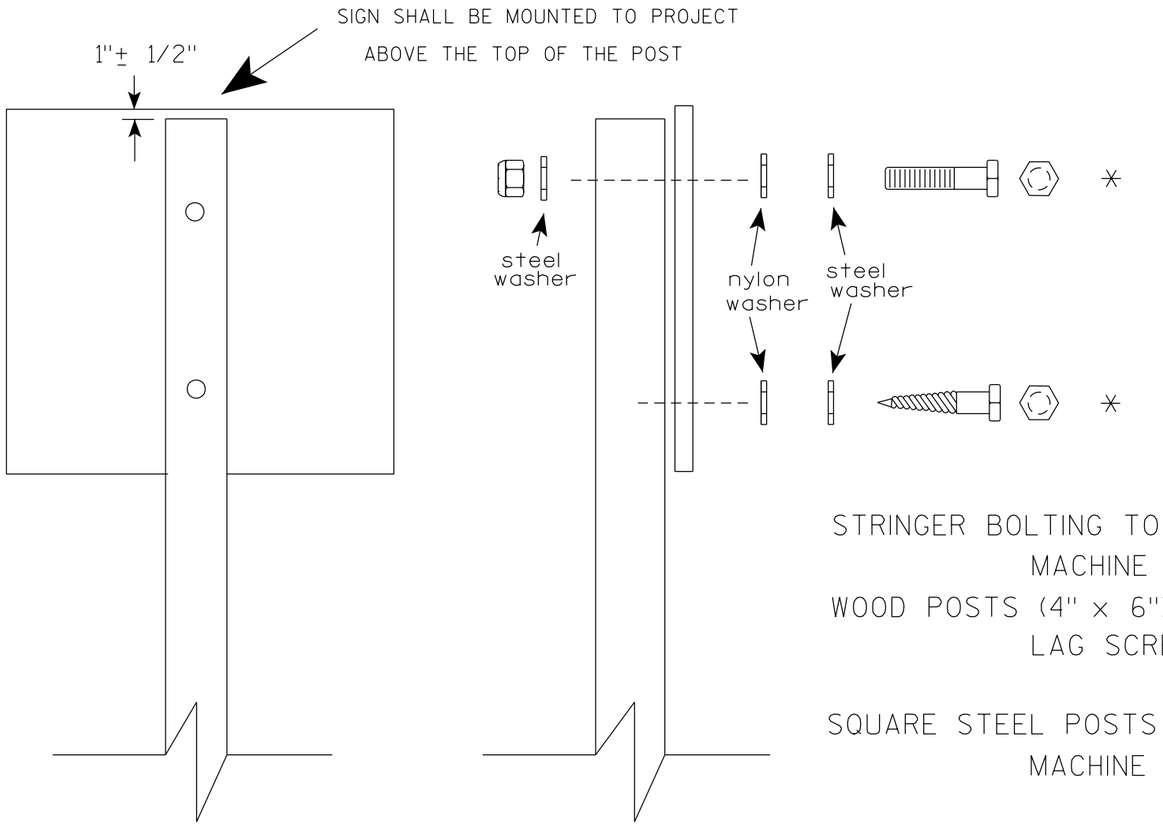
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

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

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



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

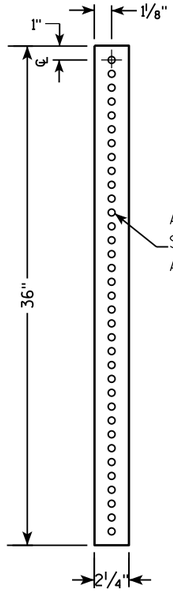
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

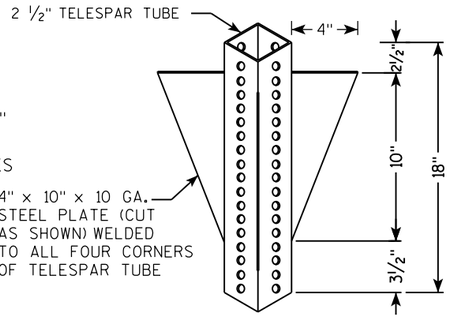
DATE 4/1/2020 PLATE NO. A4-8.9

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

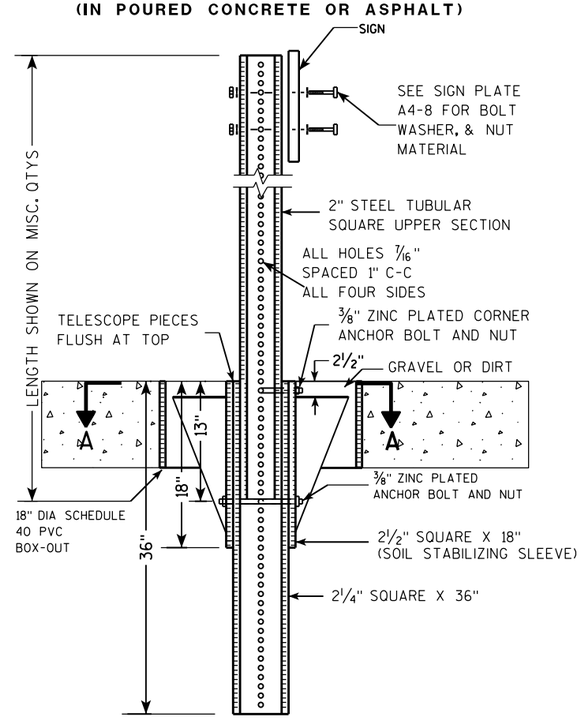
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



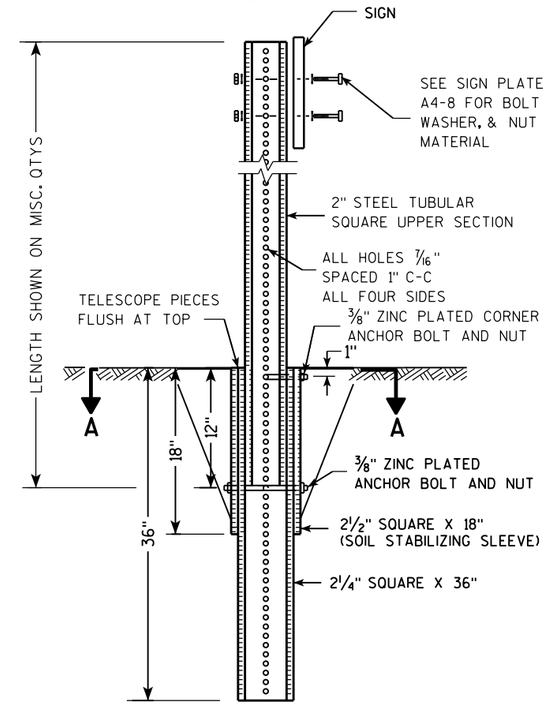
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

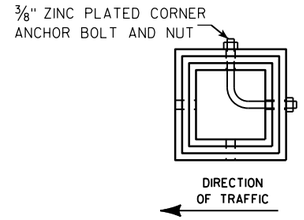


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

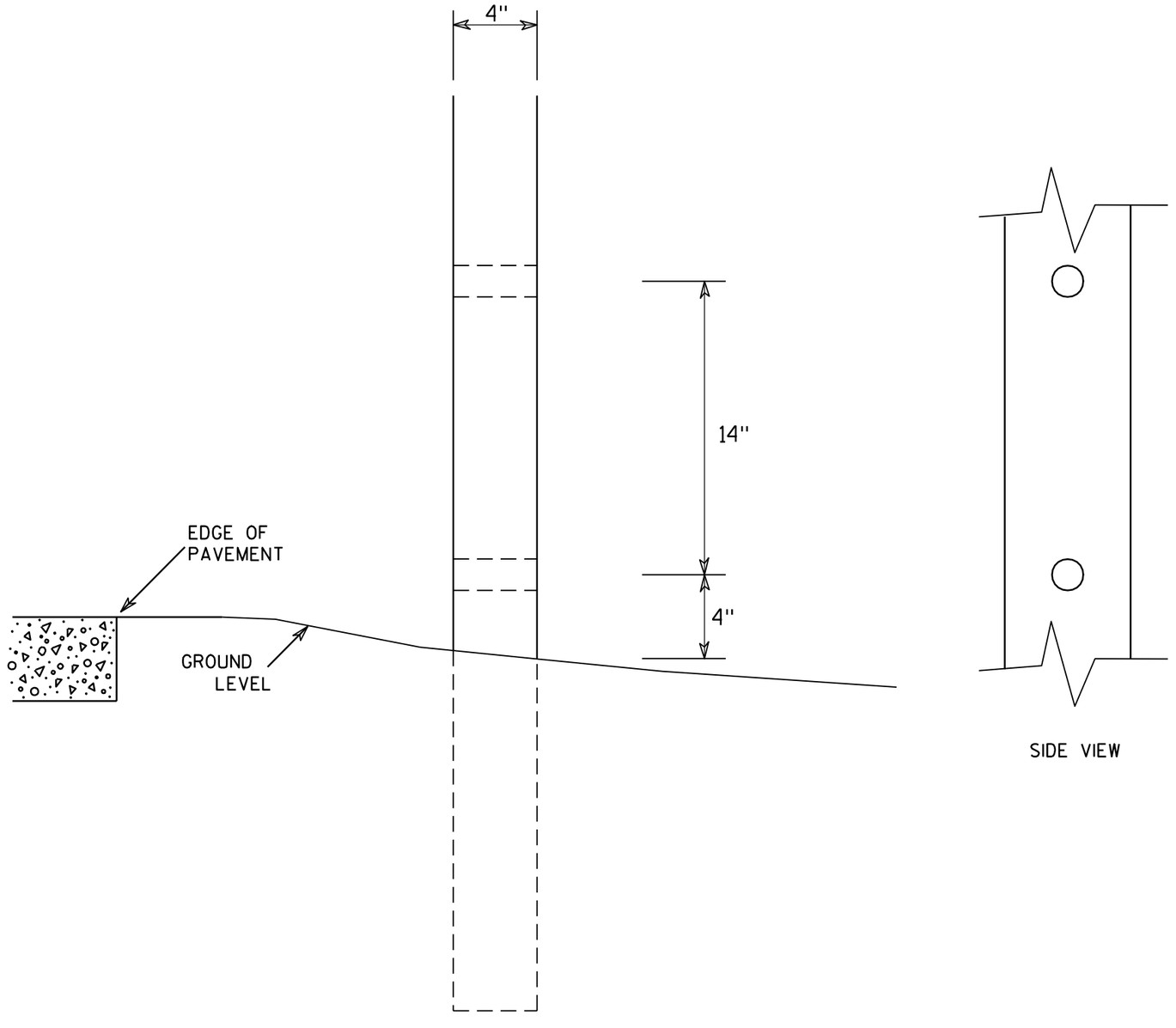
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 155 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.

7

7

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

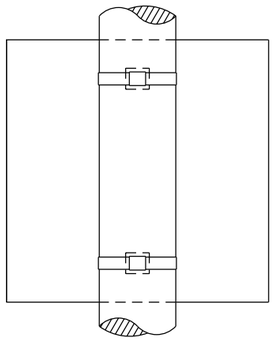
APPROVED Chester J Spang
for State Traffic Engineer

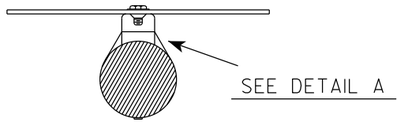
DATE 3/27/97 PLATE NO. A4-11.2

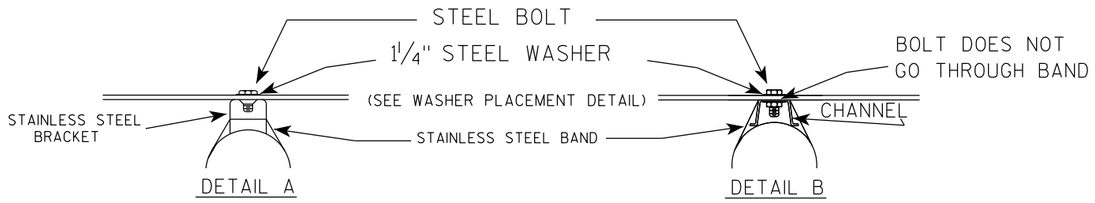
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 156	E

BANDING

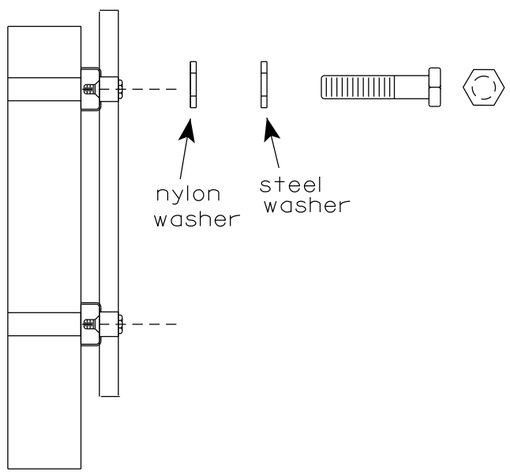
SINGLE SIGN







WASHER PLACEMENT

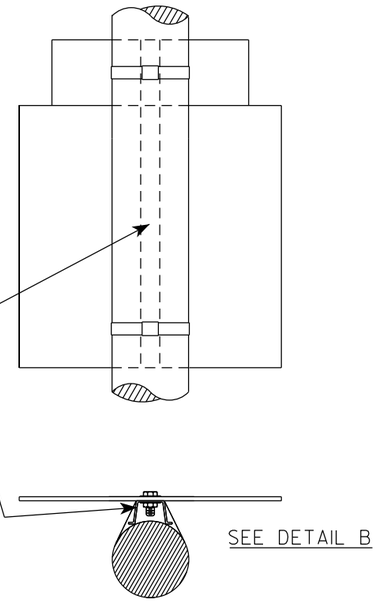


WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

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

"J" ASSEMBLY



STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

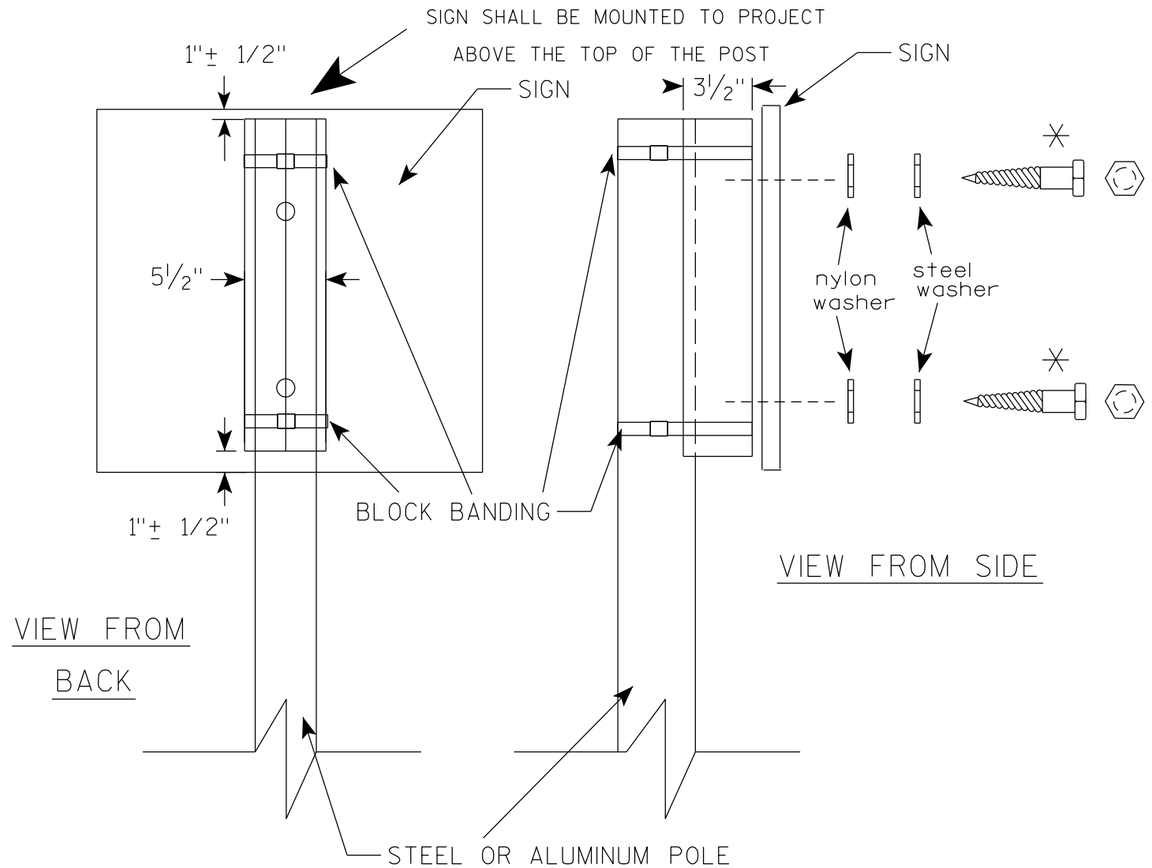
DATE 6/10/19 PLATE NO. A5-9.4

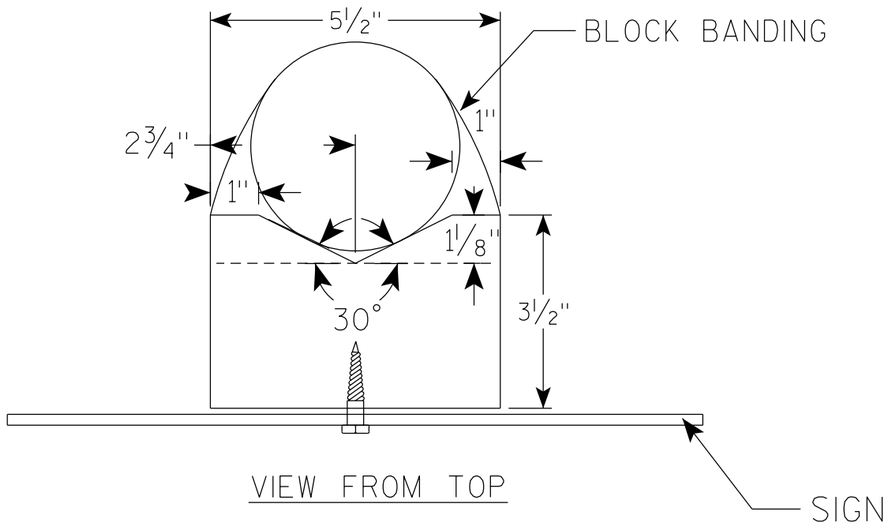
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 157	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7

7





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

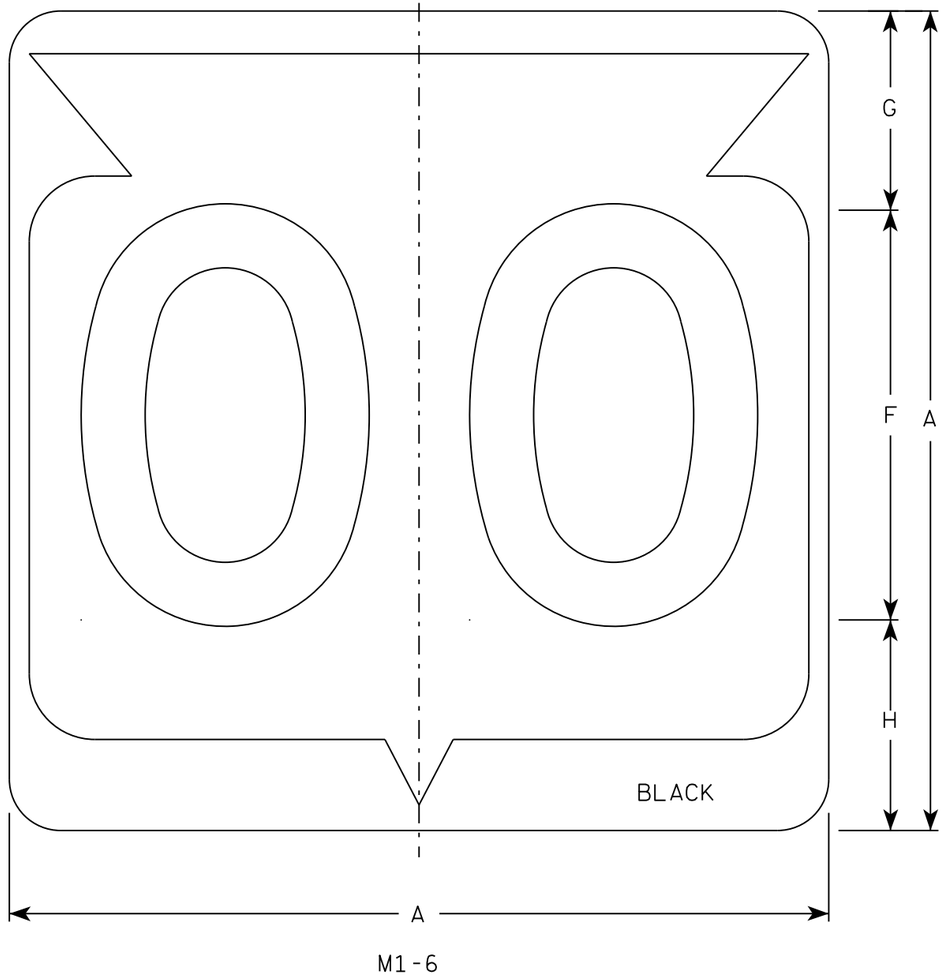
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:

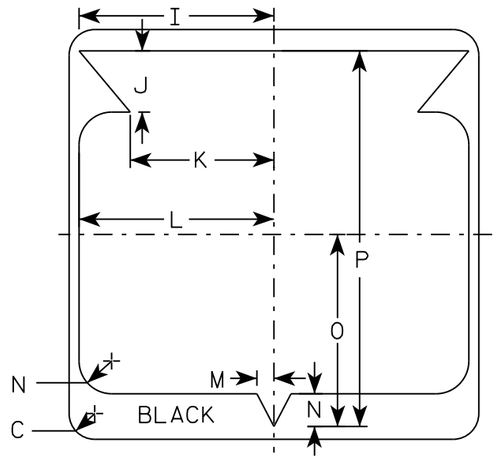
SHEET NO: 158 E



M1-6

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D except 3 number signs Series C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0

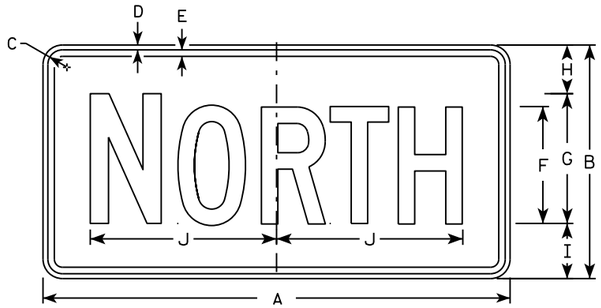
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

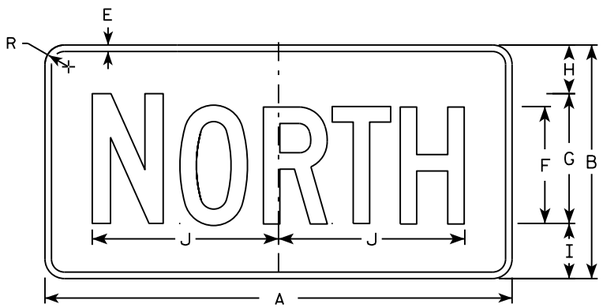
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/16/18 PLATE NO. M1-6.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 159 | E



M3-1
MM3-1
MP3-1



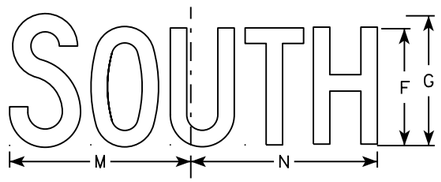
MB3-1
MK3-1
MN3-1



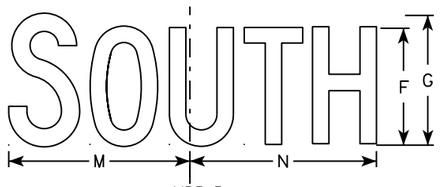
M3-2
MM3-2
MP3-2



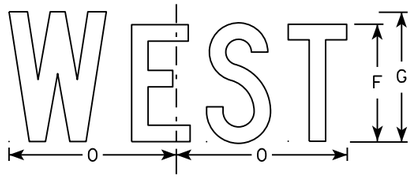
MB3-2
MK3-2
MN3-2



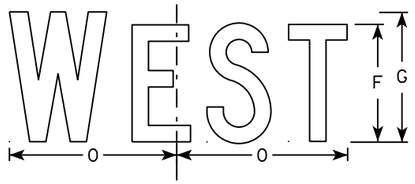
M3-3
MM3-3
MP3-3



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

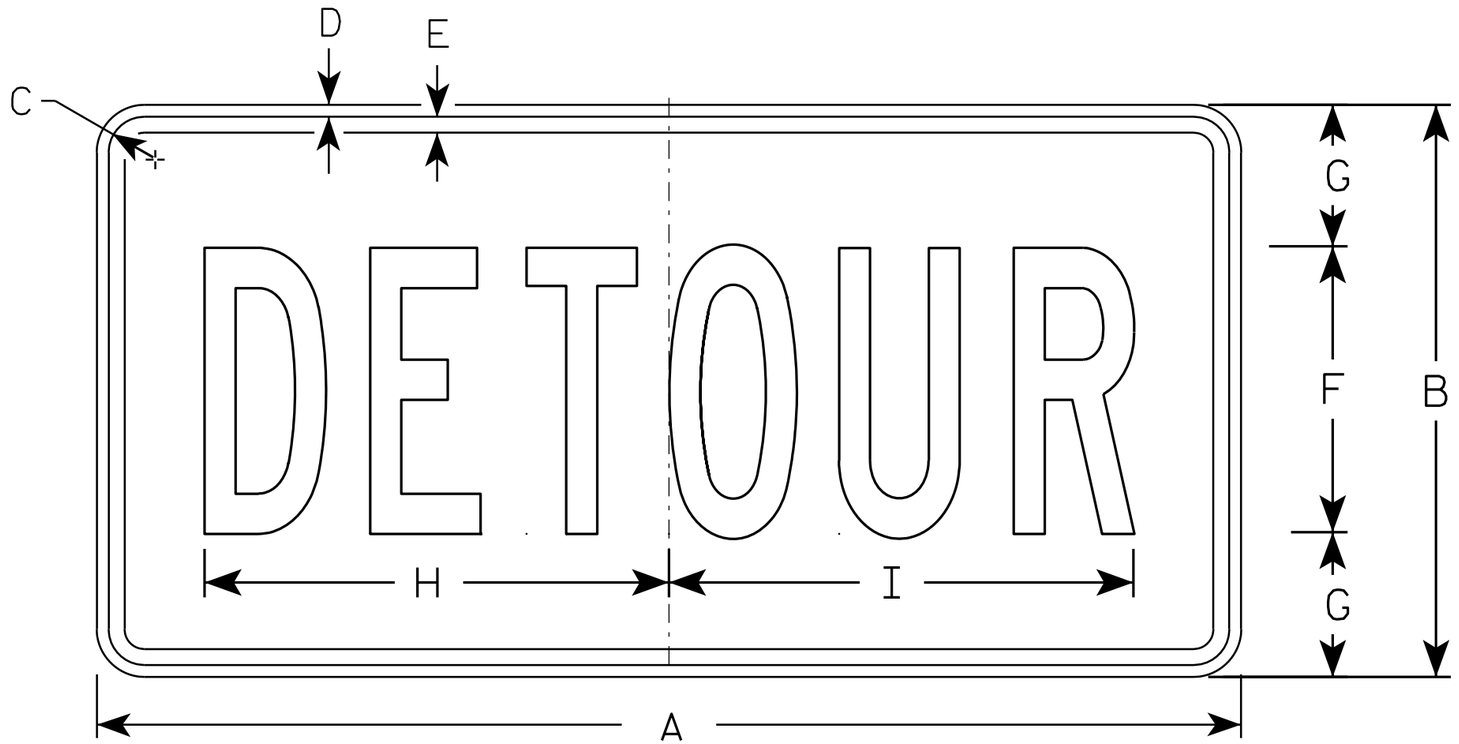
APPROVED Matthew P Rauch for State Traffic Engineer

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

7



M4-8

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/8	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4																											
5																											

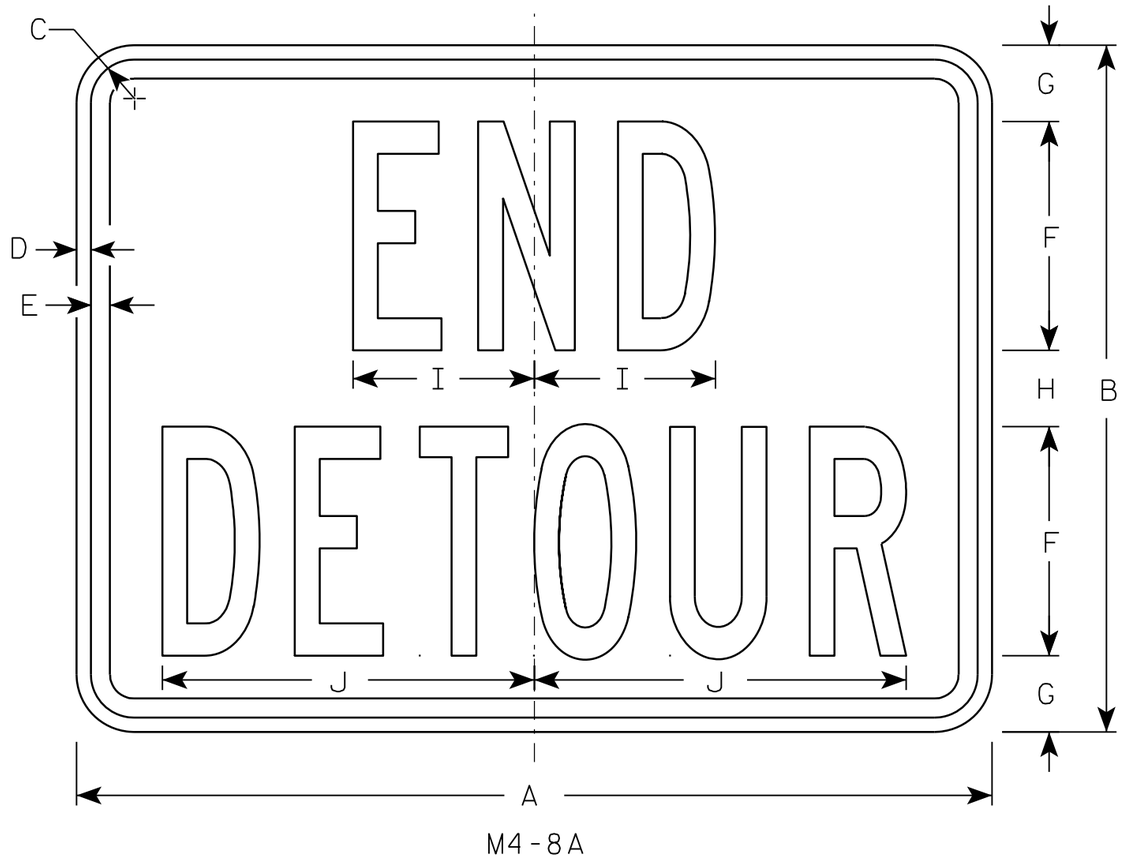
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-8.2

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



M4-8A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	18	1 1/8	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4																											
5																											

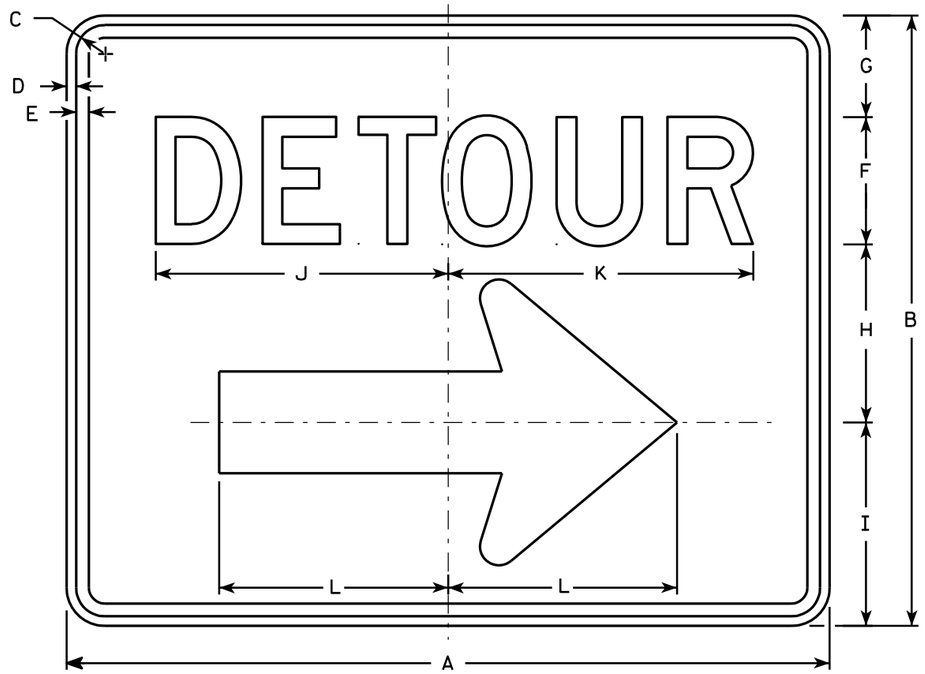
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-8A.2

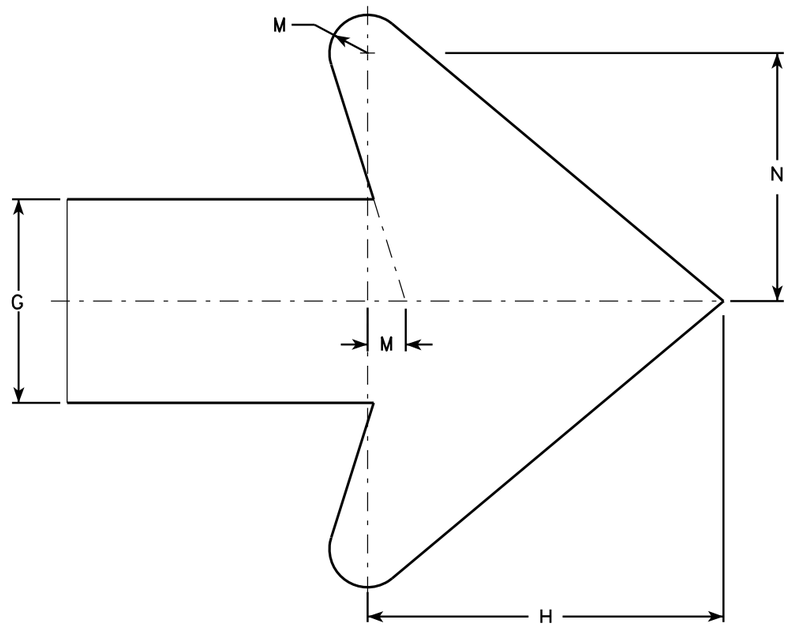
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 162	E



M4-9R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-9L is the same as M4-9R except the arrow is reversed.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	24	1 1/8	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
3	30	24	1 1/8	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
4	48	36	1 3/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0
5	48	36	1 3/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0

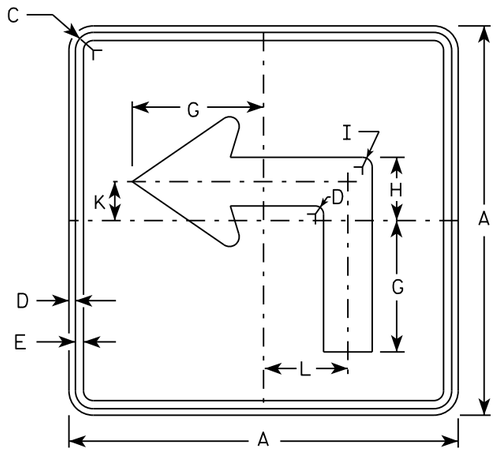
STANDARD SIGN
M4-9 R & L

WISCONSIN DEPT OF TRANSPORTATION

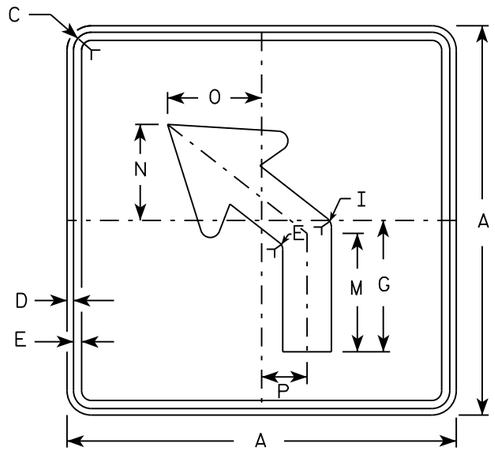
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-9R.4

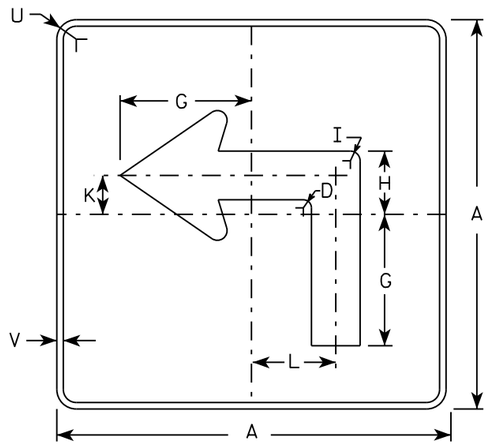
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 163	E



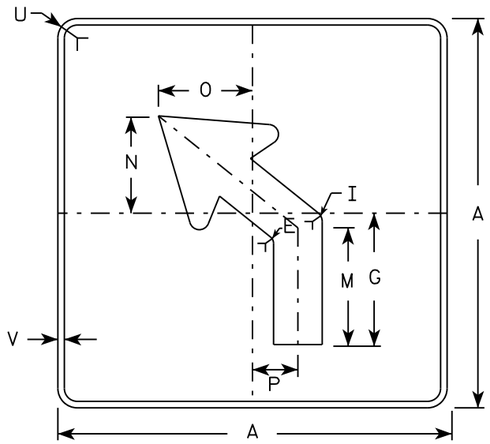
M5-1L
MM5-1L
MO5-1L
MP5-1L



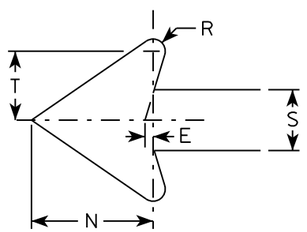
M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L



MB5-2L
MK5-2L
MN5-2L
MR5-2L



NOTES

1. Signs are Type II - Type H reflective except as shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White - Type H Reflective
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

STANDARD SIGN
M5-1 & M5-2

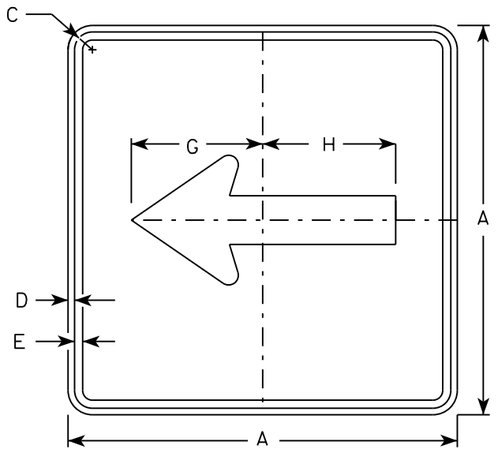
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

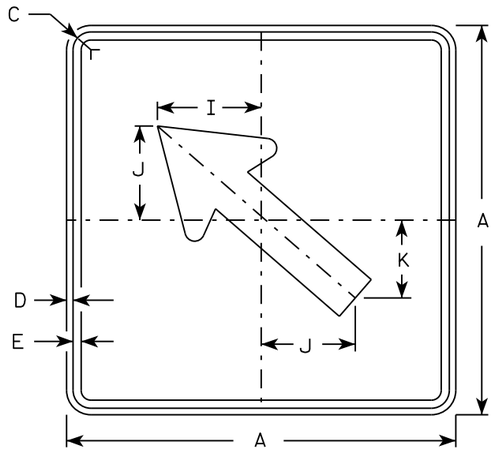
DATE 10/15/15 PLATE NO. M5-1.13

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M51.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



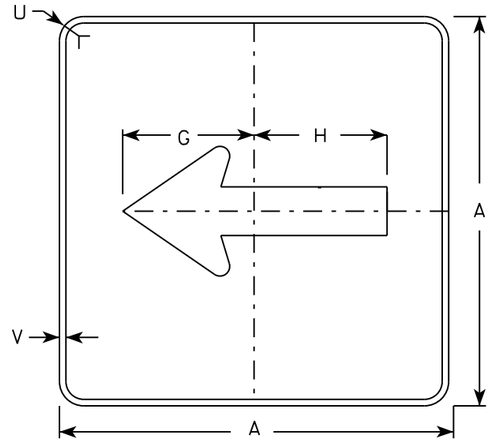
M6-1
MM6-1
MO6-1
MP6-1



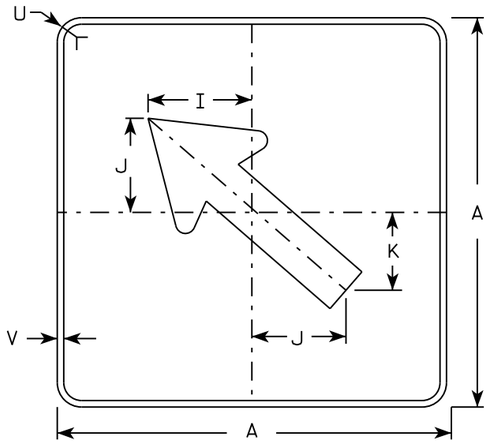
M6-2
MM6-2
MO6-2
MP6-2

NOTES

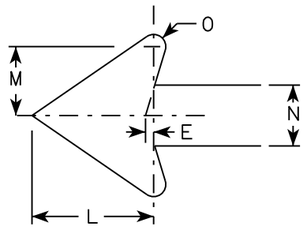
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



MB6-1
MK6-1
MN6-1
MR6-1



MB6-2
MK6-2
MN6-2
MR6-2



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2						3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25

STANDARD SIGN M6-1 & M6-2 SERIES

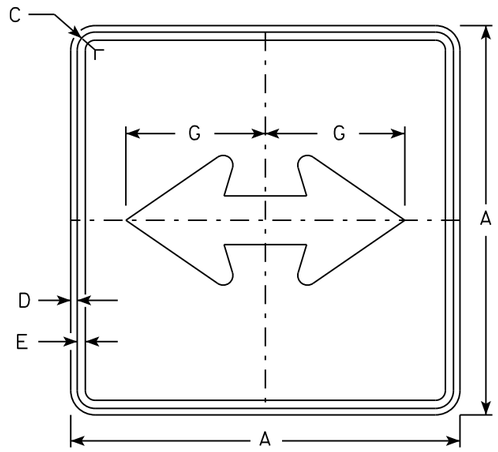
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

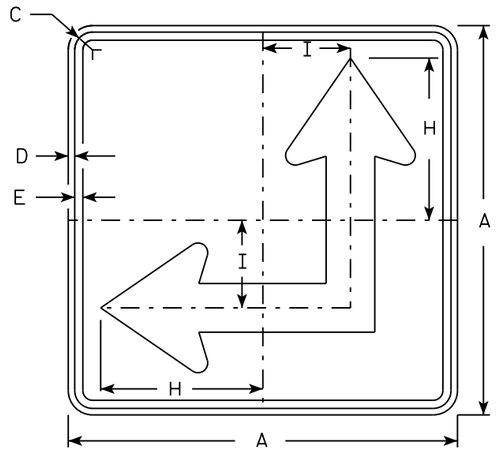
DATE 10/15/15 PLATE 165 M6-1.15

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



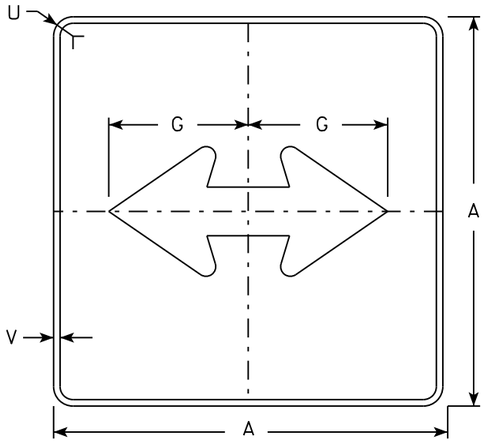
M6-4
MM6-4
MO6-4
MP6-4



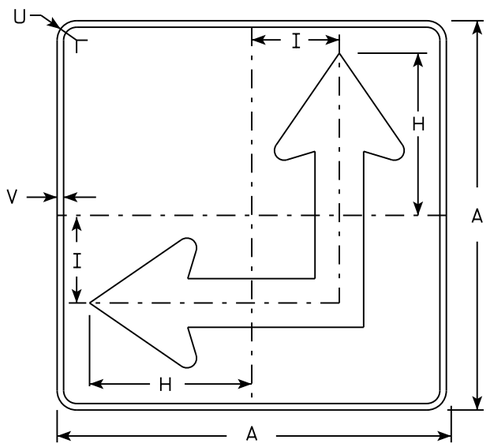
M6-6
MM6-6
MO6-6
MP6-6

NOTES

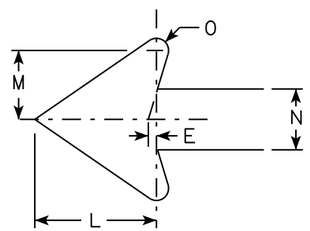
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See Note 4
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-4 and M6-6 Background - White
   Message - Black
   MB6-4 and MB6-6 Background - Blue
   Message - White
   MK6-4 and MK6-6 Background - Green
   Message - White
   MM6-4 and MM6-6 Background - White
   Message - Green
   MN6-4 and MN6-6 Background - Brown
   Message - White
   MO6-4 and MO6-6 Background - Orange - Type F Reflective
   Message - Black
   MP6-4 and MP6-6 Background - White
   Message - Blue
   MR6-4 and MR6-6 Background - Brown
   Message - Yellow
5. M6-6R same as M6-6L except arrow points ahead and right.



MB6-4
MK6-4
MN6-4
MR6-4



MB6-6
MK6-6
MN6-6
MR6-6



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	8 3/4	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	12 1/2	6 3/4			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	12 1/2	6 3/4			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	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25

STANDARD SIGN
M6-4 & M6-6
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

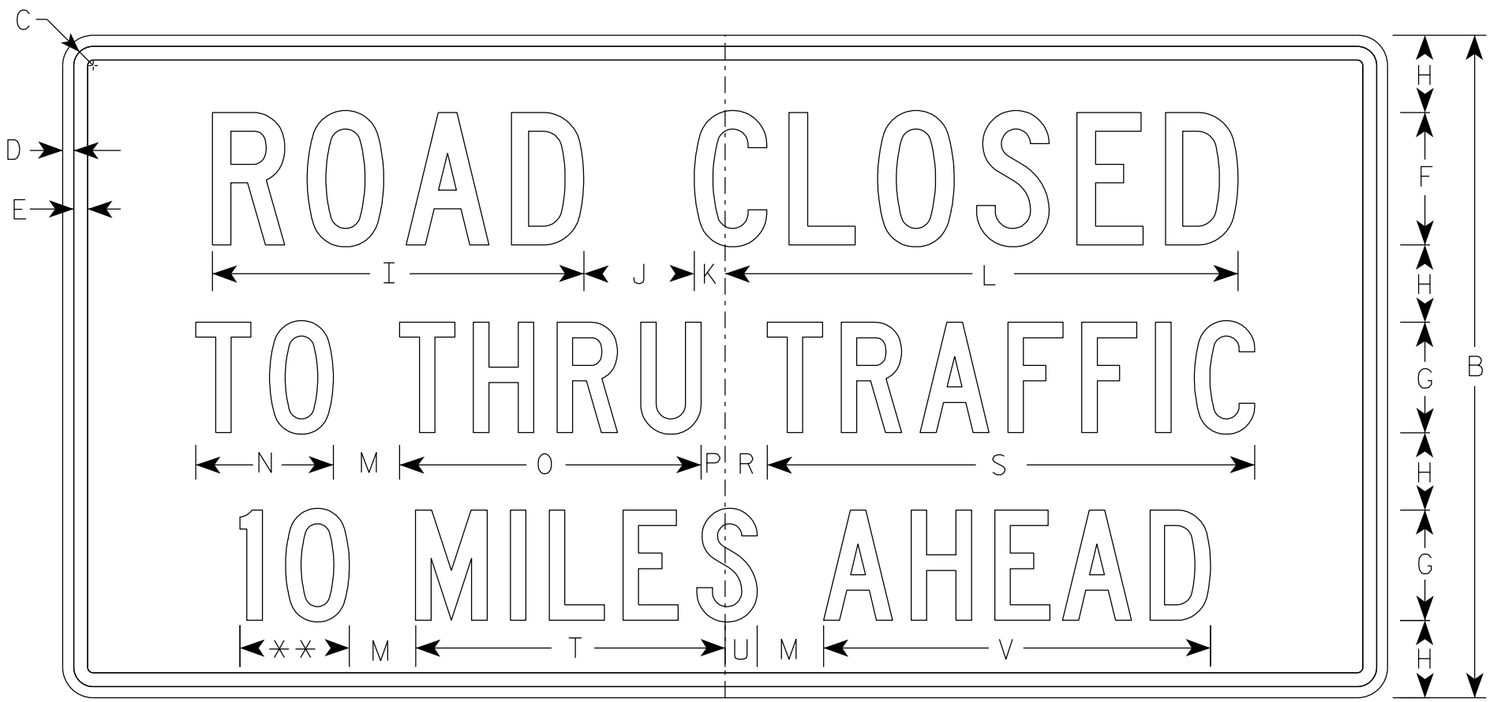
DATE 10/15/15 PLATE 166 M6-4.10

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M64.DGN PLOT DATE : 01-DEC-2015 17:58 PLOT BY : $$ platuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000

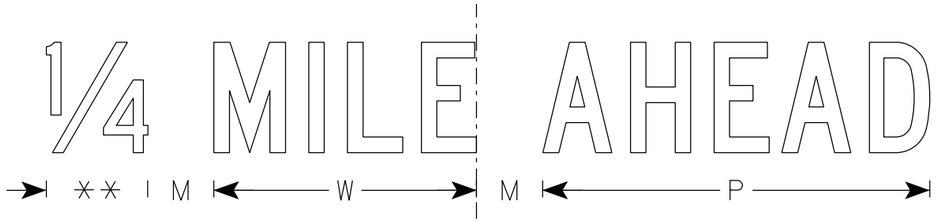
NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.



R11-3

** See Note 5



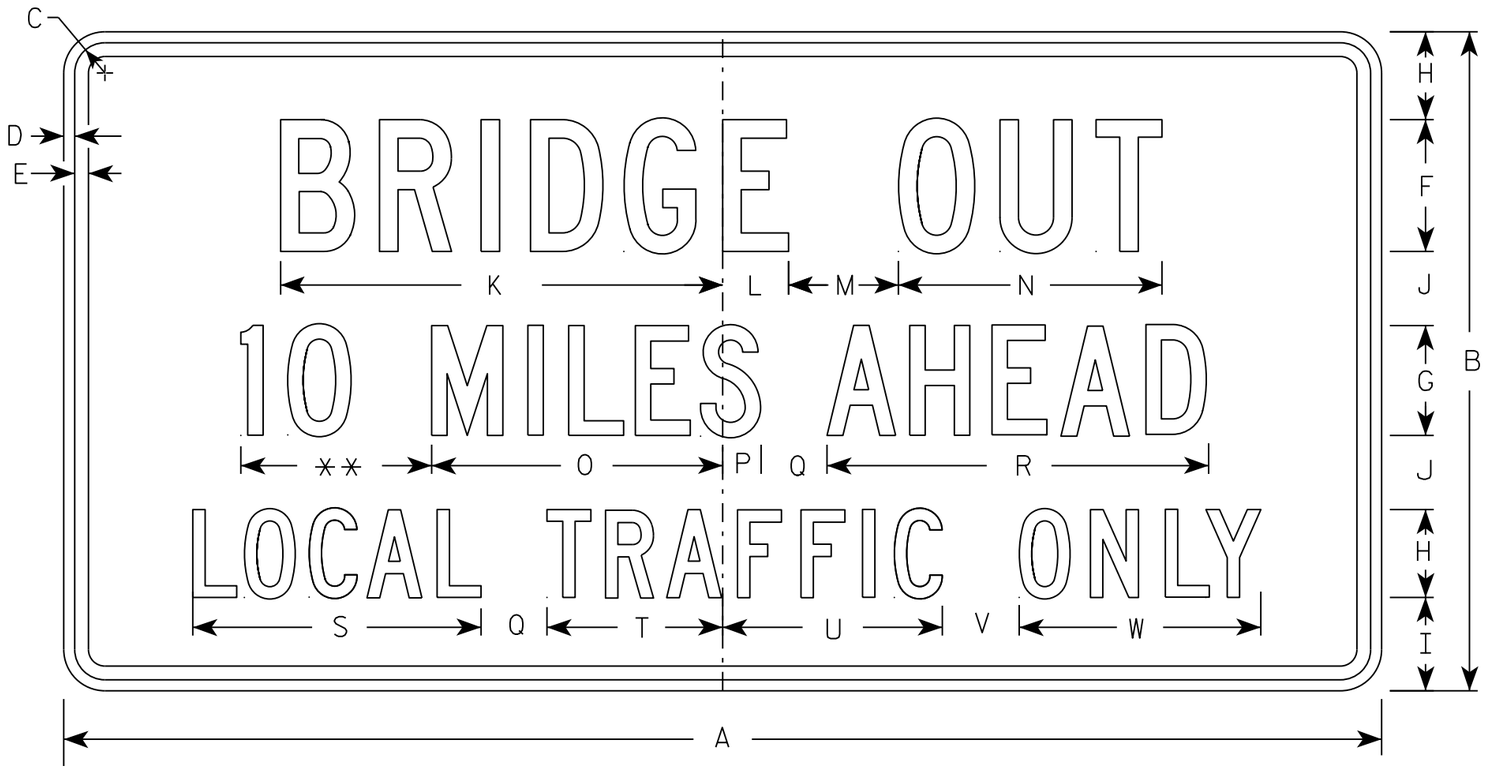
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/4	3/8	3/8	4	3	2	11 1/4	3	1 1/8	15 3/8	2	3 3/4	8 1/4	5/8		1 3/8	13 1/4	8 3/8	7/8	10 1/2	7 1/8				4.5
2S	60	30	1 3/8	1/2	5/8	6	5	3 1/2	16 7/8	5	1 3/8	23 1/4	3	6 1/4	13 5/8	1 1/8		1 7/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5
2M	60	30	1 3/8	1/2	5/8	6	5	3 1/2	16 7/8	5	1 3/8	23 1/4	3	6 1/4	13 5/8	1 1/8		1 7/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5
3																											
4																											
5																											

STANDARD SIGN
R11-3

WISCONSIN DEPT OF TRANSPORTATION

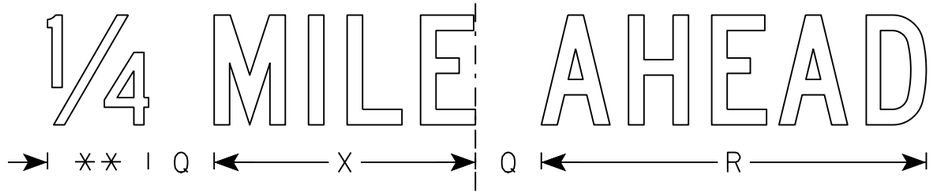
APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 6/14/2021 PLATE NO. R11-3.9

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



R11-3B

** See Note 5



NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 3/8	1/2	5/8	4	3	2 1/2	2	2	13 1/4	2 1/4	3	8	8	1 1/2	2	10 3/4	8 3/8	4 3/4	6 1/2	2	6 3/4	7 1/8			4.5
2S	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11	11 7/8			12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11	11 7/8			12.5
3																											
4																											
5																											

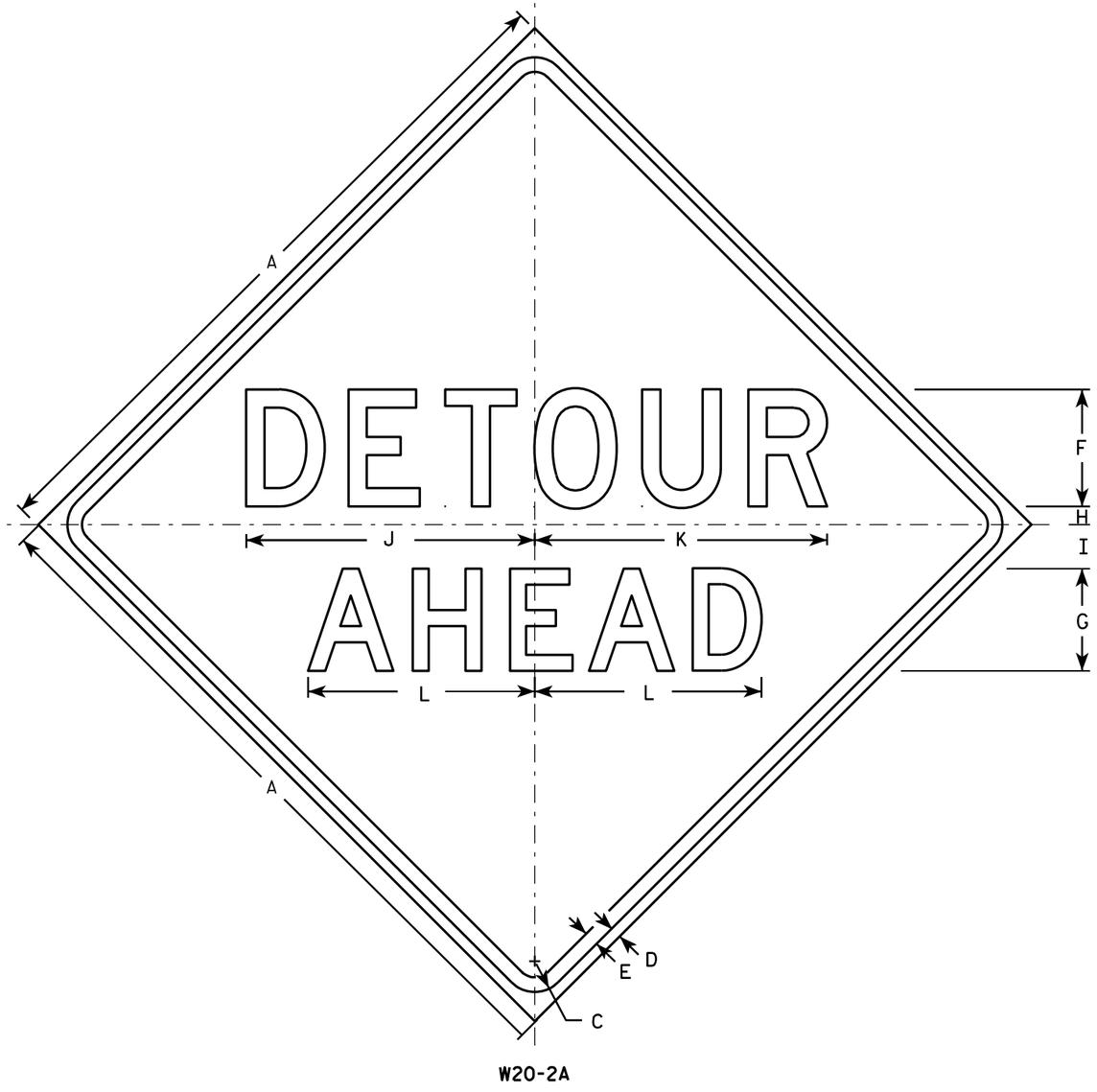
STANDARD SIGN
R11-3B

WISCONSIN DEPT OF TRANSPORTATION

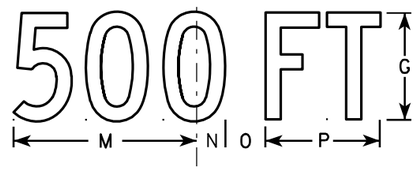
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/17 PLATE NO. R11-3B.3

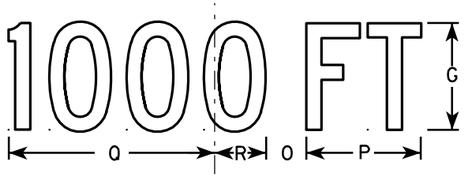
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 168 | E



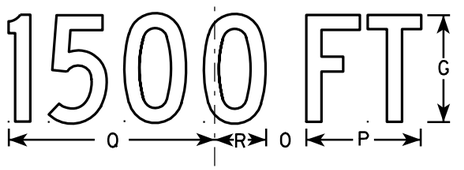
W20-2A



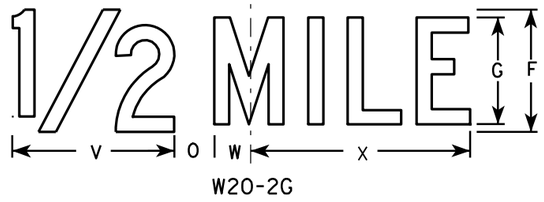
W20-2D



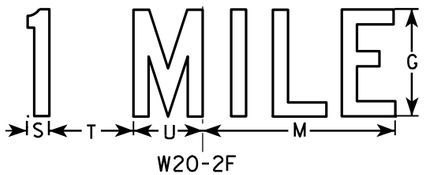
W20-2C



W20-2B



W20-2G



W20-2F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series D.
   Line 2 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

STANDARD SIGN
W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

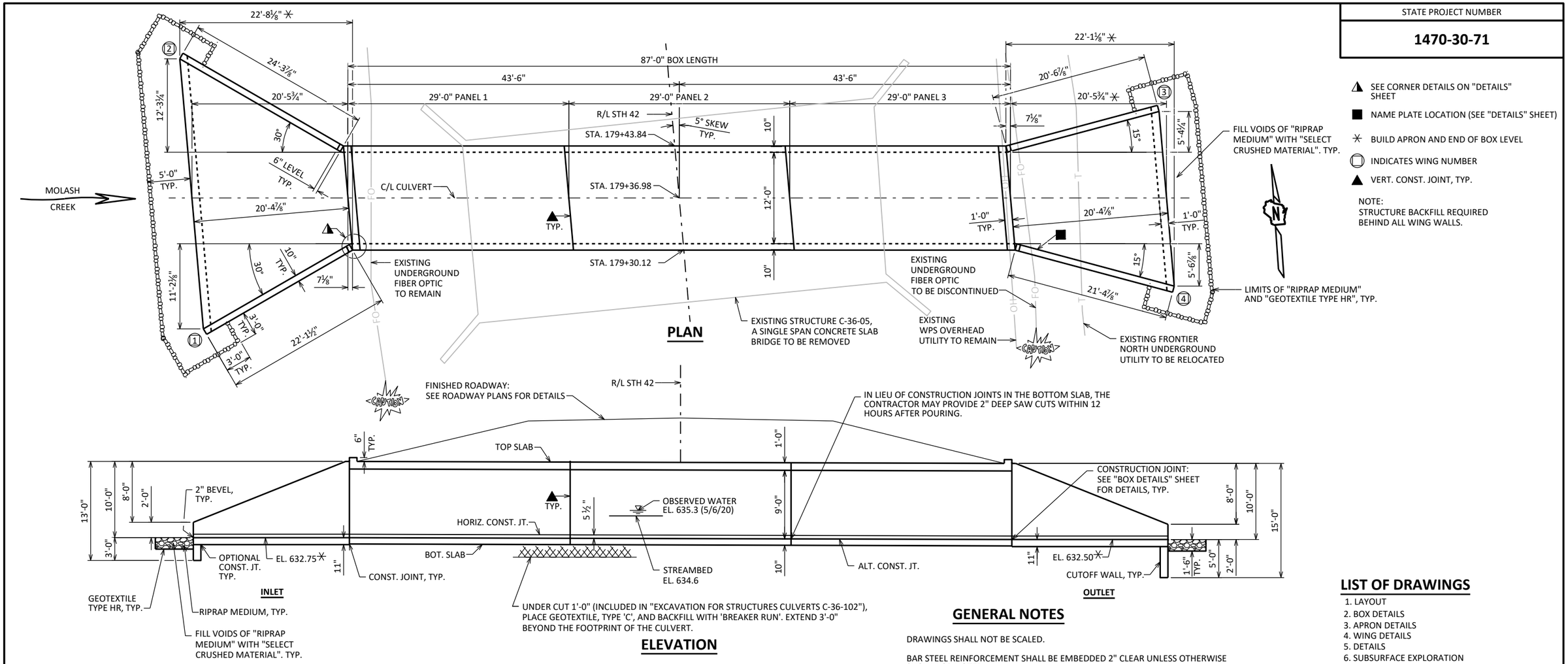
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-2.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 169 | E

STATE PROJECT NUMBER

1470-30-71



PLAN

ELEVATION

LIST OF DRAWINGS

1. LAYOUT
2. BOX DETAILS
3. APRON DETAILS
4. WING DETAILS
5. DETAILS
6. SUBSURFACE EXPLORATION

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: RF = 1.05
OPERATING RATING FACTOR: RF = 1.35
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 255 (KIPS)

EARTHLOAD:

DESIGNED FOR 5.0 TO 6.0 FT. OF FILL.

MATERIAL PROPERTIES:

CONCRETE MASONRY:——————————f'c = 3,500 P.S.I.
BAR STEEL REINFORCEMENT:——————————fy = 60,000 P.S.I.

HYDRAULIC DATA

100 YEAR FREQUENCY

Q_{100} = 455 C.F.S.
$VEL._{100}$ = 5.74 F.P.S.
$HW._{100}$ = EL. 641.36
WATERWAY AREA = 79 SQ. FT.
DRAINAGE AREA = 3.1 SQ. MI.
ROADWAY OVERTOPPING = N/A
SCOUR CRITICAL CODE = 8

2 YEAR FREQUENCY

Q_2 = 120 C.F.S.
$VEL._2$ = 2.21 F.P.S.
$HW._2$ = EL. 638.69

TRAFFIC VOLUME

STH 42

ADT = 2,110 (2024)
R.D.S. = 60 M.P.H.

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
203.0250	REMOVING STRUCTURE OVER WATERWAY REMOVE DEBRIS C-36-05	EACH	1
206.2001	EXCAVATION FOR STRUCTURES CULVERTS C-36-102	EACH	1
210.2500	BACKFILL STRUCTURE TYPE B	TON	2,070
311.0115	BREAKER RUN	CY	105
312.0115	SELECT CRUSHED MATERIAL	CY	12
504.0100	CONCRETE MASONRY CULVERTS	CY	185
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	20,570
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	4,590
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	35
606.0200	RIPRAP MEDIUM	CY	25
645.0105	GEOTEXTILE TYPE C	SY	350
645.0120	GEOTEXTILE TYPE HR	SY	70
	NON-BID ITEMS		
	FILLER	SIZE	¾"

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS C-36-102" SHALL BE THE EXISTING GROUNDLINE.

ALL VOLUME WHICH CANNOT BE PLACED BEFORE CULVERT CONSTRUCTION AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL WITHIN THE LENGTH OF THE CULVERT INCLUDING THE APRON WING WALLS.

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS.

THE CONCRETE IN THE CUTOFF WALLS MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

PLACE 18" (MIN.) WIDE SHEET OF "RUBBERIZED MEMBRANE WATERPROOFING" ON TOP SLAB OVER ALL CONSTRUCTION JOINTS AND EXTEND DOWN TO BOTTOM OF OUTSIDE WALLS.

THE CONTRACTOR MAY FURNISH A PRECAST CONCRETE BOX CULVERT IN LIEU OF THE CAST-IN-PLACE BOX CULVERT WITH THE ACCEPTANCE OF THE SHOP DRAWINGS BY THE STRUCTURES DESIGN SECTION. THE PRECAST CONCRETE BOX CULVERT SHALL CONFORM TO PRECAST DETAILS ON CHAPTER 36 STANDARDS OF THE CURRENT WISC. DOT BRIDGE MANUAL. PAYMENT FOR THE PRECAST CULVERT SHALL BE BASED ON THE QUANTITIES AND PRICES BID FOR THE ITEMS LISTED IN THE "TOTAL ESTIMATED QUANTITIES".

THE CONTRACTOR MAY ELECT TO SUBSTITUTE #1 OR #2 CONCRETE COARSE AGGREGATE, SELECT CRUSHED MATERIAL OR OTHER GRANULAR MATERIAL AS APPROVED BY THE FIELD ENGINEER, IN LIEU OF THE BREAKER RUN, TO BE UTILIZED AS A CONSTRUCTION PLATFORM FOR THE BOX. THE CONTRACTOR IS RESPONSIBLE FOR BASE STABILITY WITH ANY SUBSTITUTED MATERIAL.

STRUCTURE DESIGN CONTACTS:

STACIE WEIS (608) 261-6109
DOMINIQUE BECHLE (608) 261-8205

NO.	DATE	REVISION	BY

WISCONSIN DEPARTMENT OF TRANSPORTATION
BUREAU OF STRUCTURES

ACCEPTED DMB 08/18/22
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE C-36-102

STH 42 OVER MOLASH CREEK

COUNTY	TOWN
MANITOWOC	TWO RIVERS

DESIGN SPEC.
AASHTO LRFD BRIDGE DESIGN SPECIFICATION

DESIGNED BY	DESIGNED CK'D	DRAWN BY	PLANS CK'D
SEW	MJK	JPH	SEW

LAYOUT

SHEET 1 OF 6
170

SCALE = 13

I.D. 1470-30-00A DATE: JULY 2022

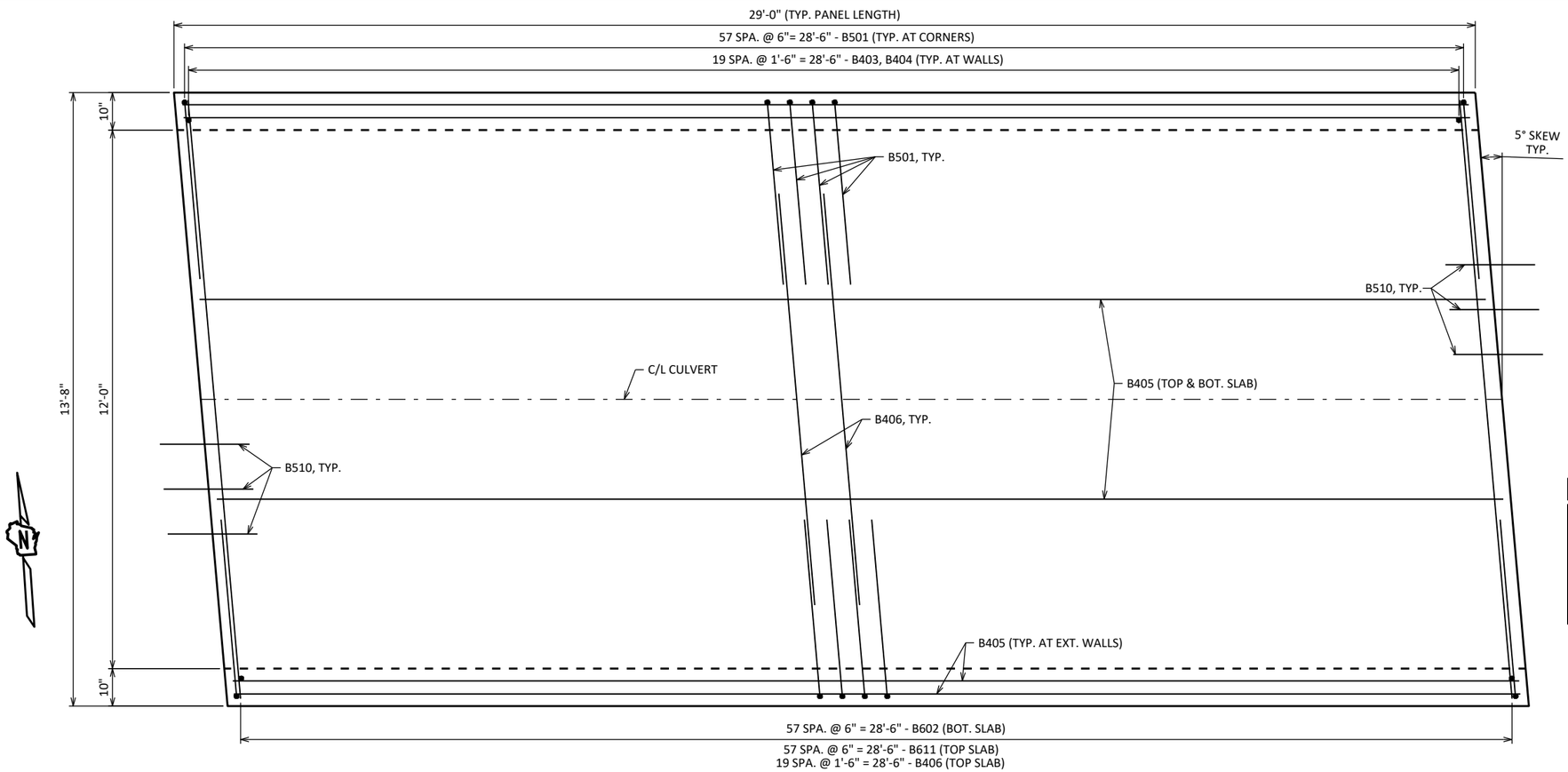
STATE PROJECT NUMBER

1470-30-71

BILL OF BARS

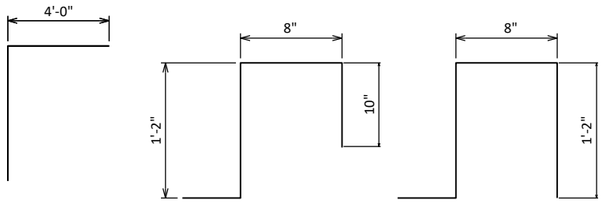
NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
B501		696	10'-0"	X		CORNERS - VERTICAL
B602		174	13'-0"			BOTTOM SLAB - TRANSVERSE - HORIZONTAL
B403		120	2'-4"			WALLS - DOWELS - VERTICAL
B404		120	9'-2"			WALLS - VERTICAL
B405		153	28'-8"			TOP & BOTTOM SLAB & WALLS - LONGITUDINAL
B406		60	9'-4"			TOP SLAB - TRANSVERSE - HORIZ.
B307		19	3'-0"	X		HEADER - VERTICAL - INLET
B308		19	3'-4"	X		HEADER - VERTICAL - OUTLET
B409		4	13'-4"			HEADERS - TRANSVERSE - HORIZONTAL
B510		120	4'-0"			VERT. CONST. JOINT & APRON CONNECTION
B611		174	13'-0"			TOP SLAB - TRANSVERSE - HORIZ.

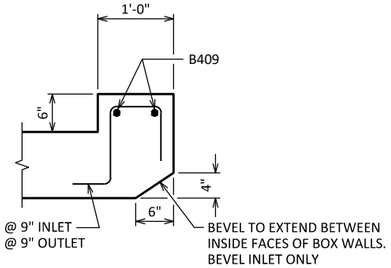


PLAN

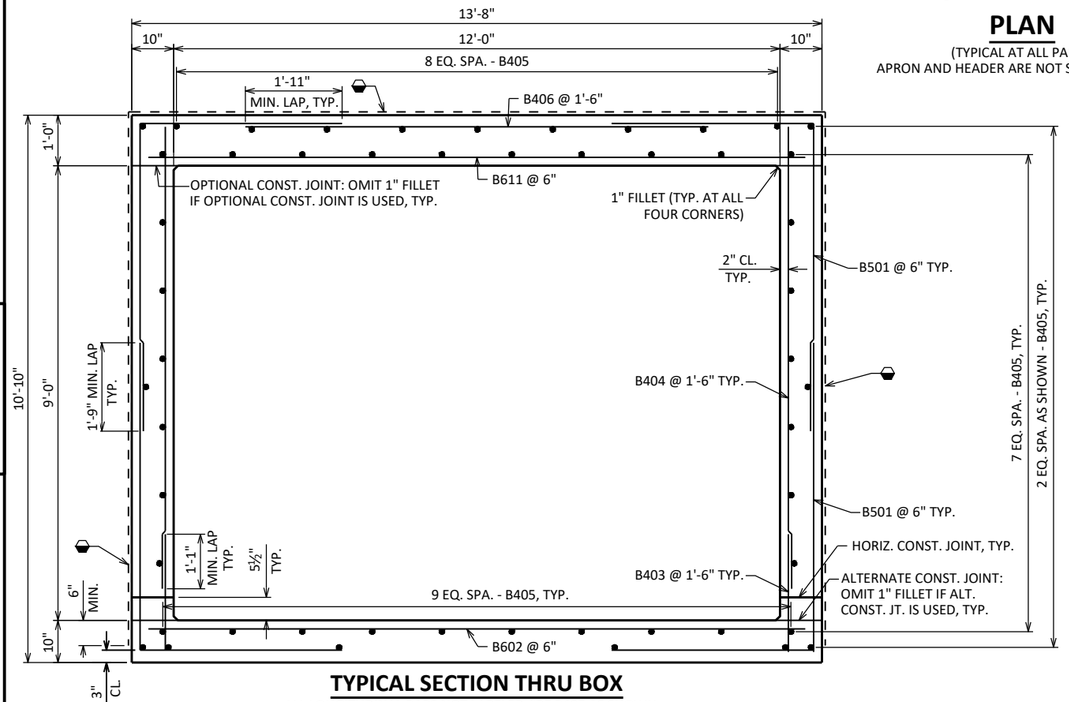
(TYPICAL AT ALL PANELS)
APRON AND HEADER ARE NOT SHOWN FOR CLARITY



B501 **B307** **B308**

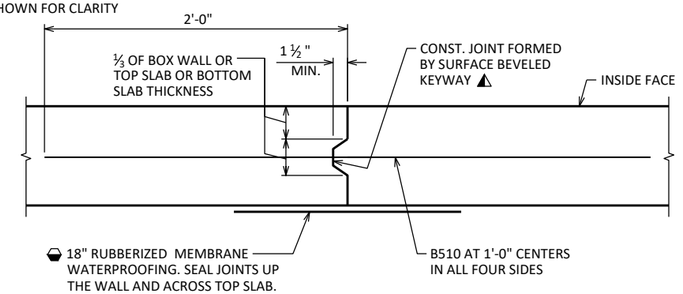


SECTION THRU HEADER

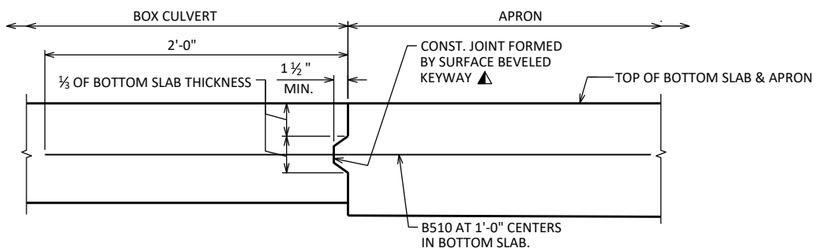


TYPICAL SECTION THRU BOX

ALL LONGITUDINAL BARS NOT LABELED ARE B405 AS SHOWN



VERTICAL CONSTRUCTION JOINT



APRON CONNECTION DETAIL

⚠ IN LIEU OF CONSTRUCTION JOINTS IN BOTTOM SLAB, THE CONTRACTOR MAY USE 2" DEEP SAW CUTS WITHIN 12 HOURS AFTER POURING.

⬙ 18" MIN. WIDTH RUBBERIZED MEMBRANE WATERPROOFING UP WALLS & ACROSS TOP SLAB AT VERTICAL CONST. JOINTS. EXTEND 6" MIN. BELOW TOP OF BOTTOM SLAB.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-36-102

DRAWN BY JPH | PLANS CK'D SEW

BOX DETAILS

SHEET 2
171

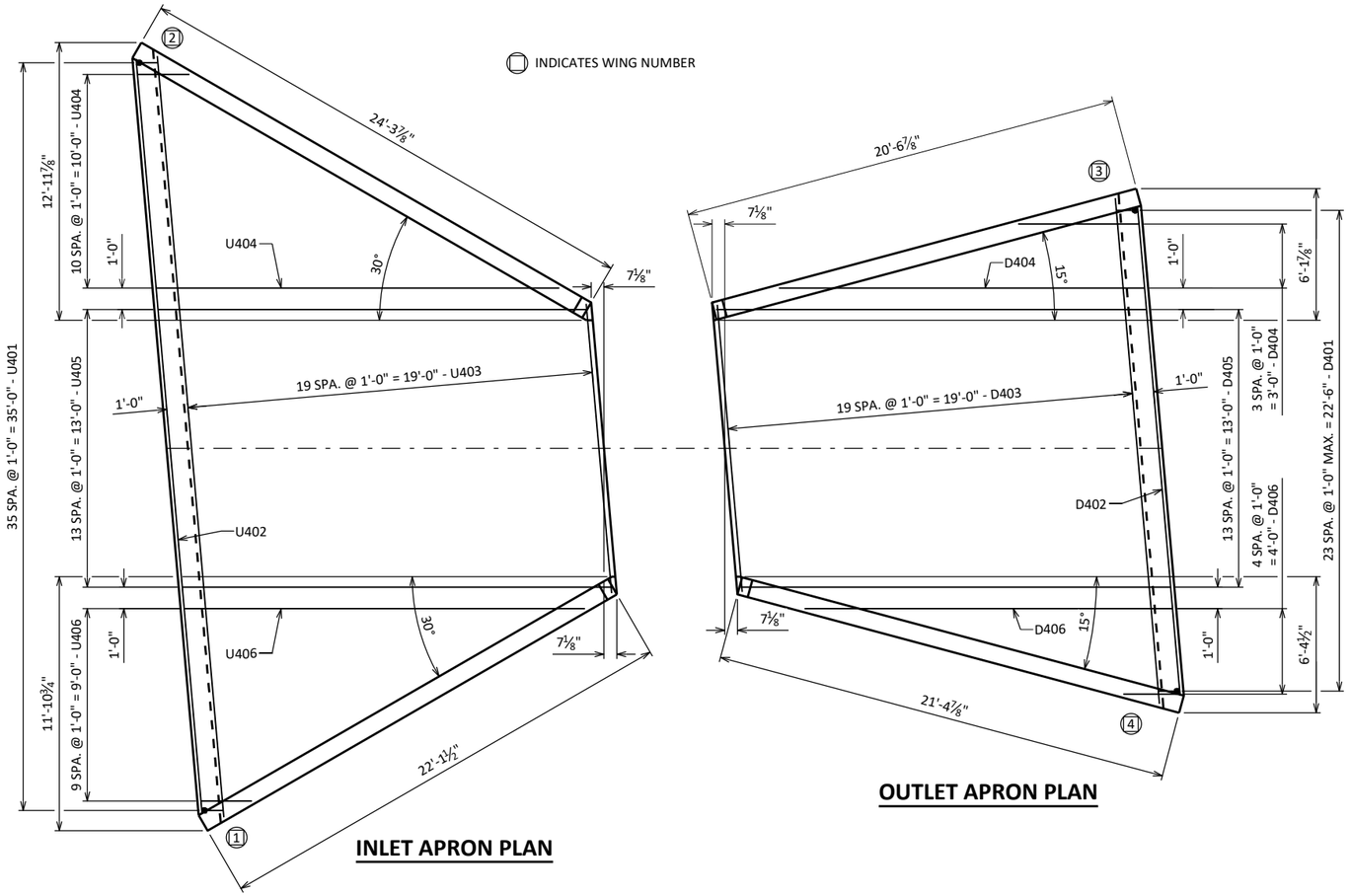
SCALE = 3

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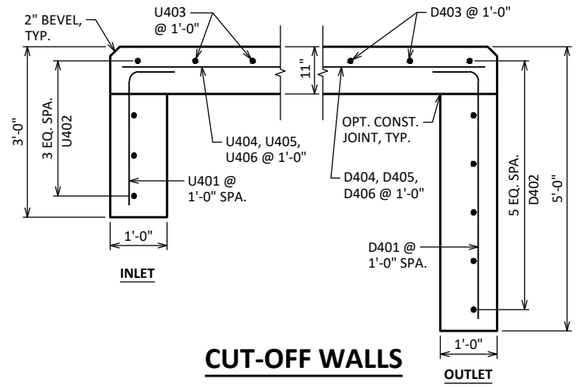
STATE PROJECT NUMBER

1470-30-71

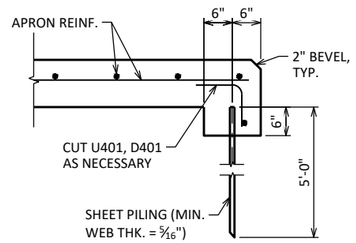


INLET APRON PLAN

OUTLET APRON PLAN

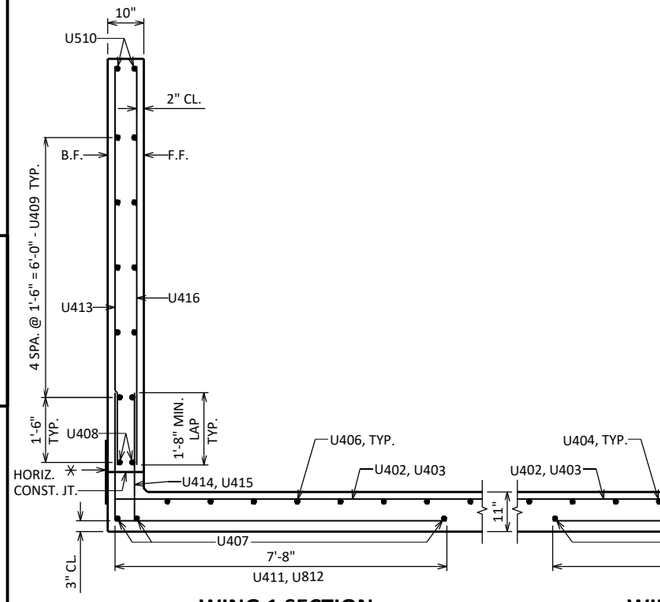


CUT-OFF WALLS

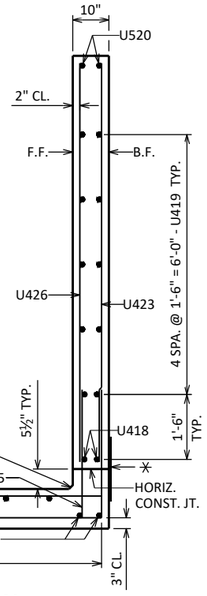


ALTERNATE CUT-OFF WALLS

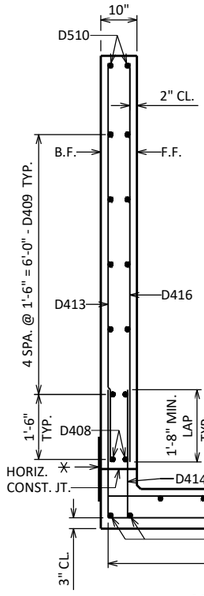
THE ABOVE ALTERNATIVE MAY BE USED IN LIEU OF CAST-IN-PLACE CONCRETE CUT-OFF WALLS. PAYMENT WILL BE BASED ON THE CONCRETE CUT-OFF WALLS.



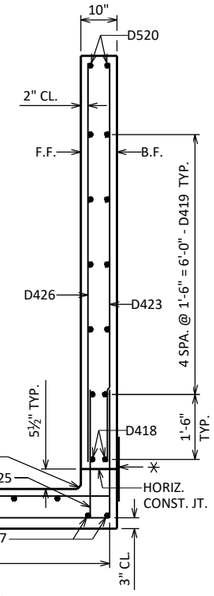
WING 1 SECTION
AT RIGHT ANGLE TO WING WALL



WING 2 SECTION
AT RIGHT ANGLE TO WING WALL



WING 3 SECTION
AT RIGHT ANGLE TO WING WALL



WING 4 SECTION
AT RIGHT ANGLE TO WING WALL

✳ 18" RUBBERIZED MEMBRANE WATERPROOFING, PLACE ALONG HORIZ. CONST. JT. FOR ENTIRE LENGTH OF WING, TYP.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-36-102

DRAWN BY JPH | PLANS CK'D SEW

APRON DETAILS

SHEET 3
172

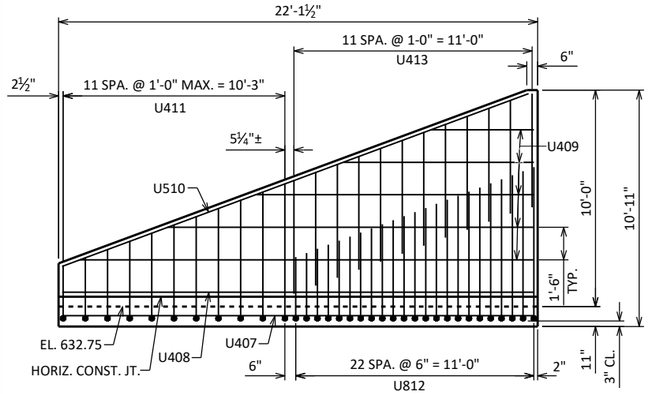
SCALE = 7

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8

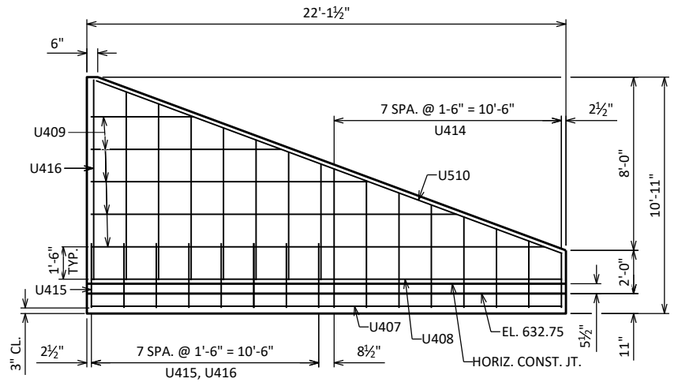
STATE PROJECT NUMBER

1470-30-71



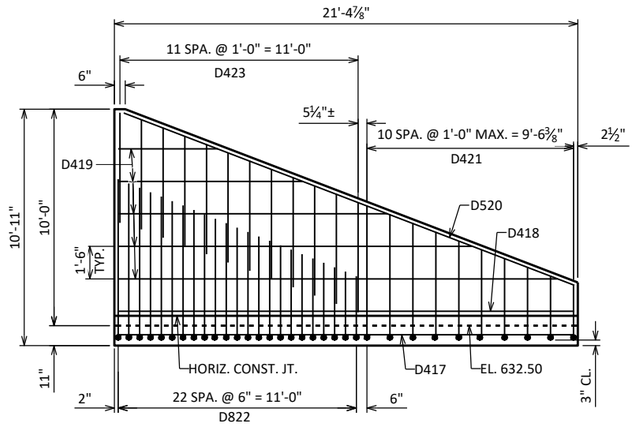
ELEVATION OF WING 1

SHOWING B.F. REINFORCEMENT



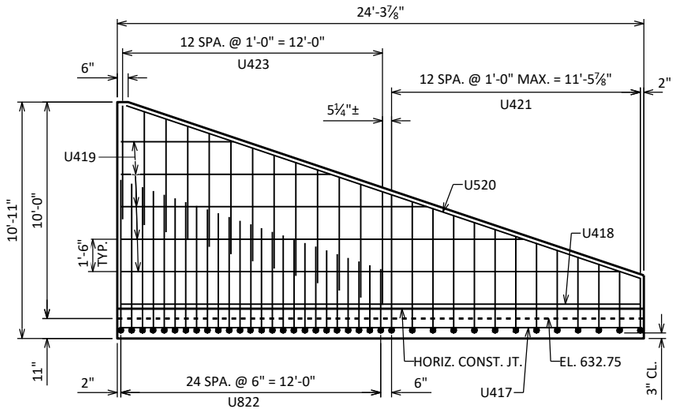
ELEVATION OF WING 1

SHOWING F.F. REINFORCEMENT



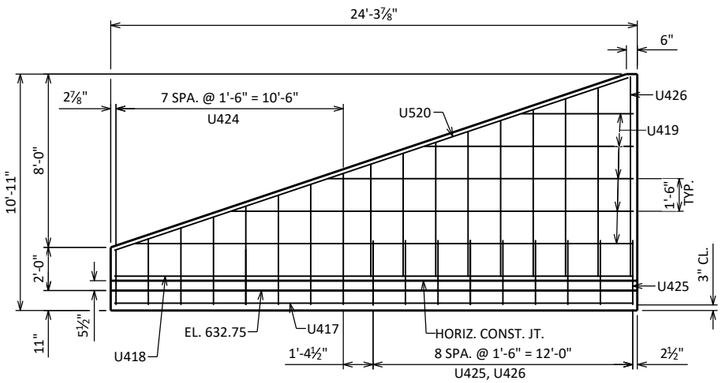
ELEVATION OF WING 4

SHOWING B.F. REINFORCEMENT



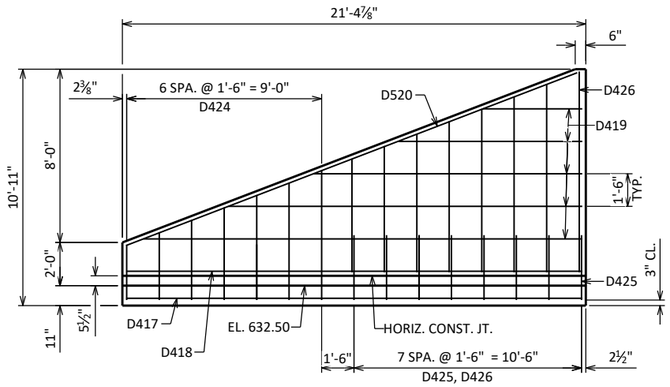
ELEVATION OF WING 2

SHOWING B.F. REINFORCEMENT



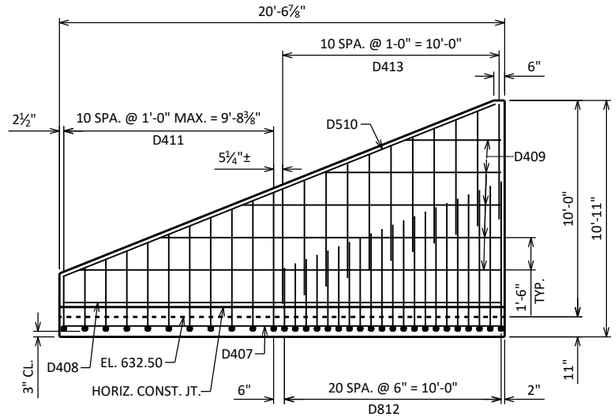
ELEVATION OF WING 2

SHOWING F.F. REINFORCEMENT



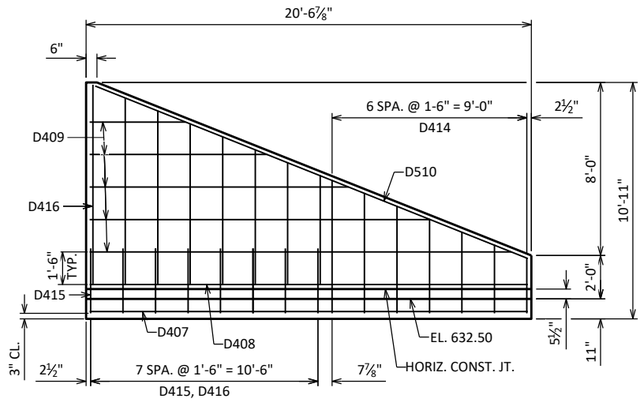
ELEVATION OF WING 4

SHOWING F.F. REINFORCEMENT



ELEVATION OF WING 3

SHOWING B.F. REINFORCEMENT



ELEVATION OF WING 3

SHOWING F.F. REINFORCEMENT

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-36-102

DRAWN BY JPH | PLANS CK'D SEW

WING DETAILS

SHEET 4
173

SCALE = 7

STATE PROJECT NUMBER

1470-30-71

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

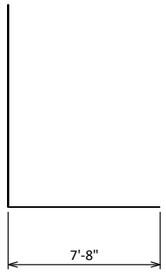
BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
U401		36	3'-6"	X		INLET APRON CUTOFF - VERT.
U402		4	35'-7"			INLET APRON CUTOFF - HORIZ.
U403		20	24'-7"		⚠	INLET APRON - HORIZ.
U404		11	10'-8"		⚠	INLET APRON - LONGIT.
U405		14	20'-2"			INLET APRON - LONGIT.
U406		10	10'-7"		⚠	INLET APRON - LONGIT.
U407		3	21'-9"			WING 1 - HORIZ. - BOT.
U408	X	2	21'-9"			WING 1 - HORIZ.
U409	X	10	12'-9"		⚠	WING 1 - HORIZ.
U510	X	2	23'-0"			WING 1 - HORIZ. - TOP
U411	X	12	12'-0"	X	⚠	WING 1 - VERT. - B.F.
U812	X	23	12'-6"	X	⚠	WING 1 - VERT. - B.F.
U413	X	12	5'-3"			WING 1 - VERT. - B.F.
U414	X	8	4'-6"		⚠	WING 1 - VERT. - F.F.
U415	X	8	3'-0"			WING 1 - VERT. - DOWELS - F.F.
U416	X	8	7'-4"		⚠	WING 1 - VERT. - F.F.
U417		3	24'-0"			WING 2 - HORIZ. - BOT.
U418	X	2	24'-0"			WING 2 - HORIZ.
U419	X	10	14'-0"		⚠	WING 2 - HORIZ.
U520	X	2	25'-1"			WING 2 - HORIZ. - TOP
U421	X	13	12'-1"	X	⚠	WING 2 - VERT. - B.F.
U822	X	25	12'-6"	X	⚠	WING 2 - VERT. - B.F.
U423	X	13	5'-3"			WING 2 - VERT. - B.F.
U424	X	8	4'-4"		⚠	WING 2 - VERT. - F.F.
U425	X	9	3'-0"			WING 2 - VERT. - DOWELS - F.F.
U426	X	9	7'-3"		⚠	WING 2 - VERT. - F.F.
D401		24	5'-6"	X		OUTLET APRON CUTOFF - VERT.
D402		6	23'-3"			OUTLET APRON CUTOFF - HORIZ.
D403		20	18'-7"		⚠	OUTLET APRON - HORIZ.
D404		4	11'-5"		⚠	OUTLET APRON - LONGIT.
D405		14	20'-2"			OUTLET APRON - LONGIT.
D406		5	10'-0"		⚠	OUTLET APRON - LONGIT.
D407		3	20'-3"			WING 3 - HORIZ. - BOT.
D408	X	2	20'-3"			WING 3 - HORIZ.
D409	X	10	11'-10"		⚠	WING 3 - HORIZ.
D510	X	2	21'-8"			WING 3 - HORIZ. - TOP
D411	X	11	12'-1"	X	⚠	WING 3 - VERT. - B.F.
D812	X	21	12'-6"	X	⚠	WING 3 - VERT. - B.F.
D413	X	11	5'-4"			WING 3 - VERT. - B.F.
D414	X	7	4'-5"		⚠	WING 3 - VERT. - F.F.
D415	X	8	3'-0"			WING 3 - VERT. - DOWELS - F.F.
D416	X	8	7'-2"		⚠	WING 3 - VERT. - F.F.
D417		3	21'-1"			WING 4 - HORIZ. - BOT.
D418	X	2	21'-1"			WING 4 - HORIZ.
D419	X	10	12'-4"		⚠	WING 4 - HORIZ.
D520	X	2	22'-4"			WING 4 - HORIZ. - TOP
D421	X	11	12'-0"	X	⚠	WING 4 - VERT. - B.F.
D822	X	23	12'-7"	X	⚠	WING 4 - VERT. - B.F.
D423	X	12	5'-1"			WING 4 - VERT. - B.F.
D424	X	7	4'-4"		⚠	WING 4 - VERT. - F.F.
D425	X	8	3'-0"			WING 4 - VERT. - DOWELS - F.F.
D426	X	8	7'-3"		⚠	WING 4 - VERT. - F.F.

⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

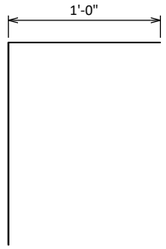
BAR SERIES TABLE

BUNDLE AND TAG EACH SERIES SEPARATELY.

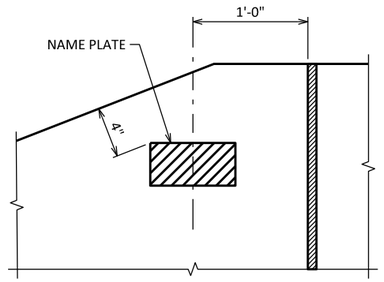
BAR MARK	NO. REQ'D	LENGTH
U403	1 SERIES OF 20	13'-6" TO 35'-8"
U404	1 SERIES OF 11	2'-5" TO 18'-11"
U406	1 SERIES OF 10	2'-5" TO 18'-9"
U409	2 SERIES OF 5	4'-8" TO 20'-10"
U411	1 SERIES OF 12	10'-1" TO 13'-11"
U812	1 SERIES OF 23	10'-6" TO 14'-6"
U414	1 SERIES OF 8	2'-6" TO 6'-6"
U416	1 SERIES OF 8	5'-5" TO 9'-3"
U419	2 SERIES OF 5	5'-1" TO 22'-11"
U421	1 SERIES OF 13	10'-2" TO 14'-0"
U822	1 SERIES OF 25	10'-6" TO 14'-6"
U424	1 SERIES OF 8	2'-7" TO 6'-1"
U426	1 SERIES OF 9	5'-3" TO 9'-3"
D403	1 SERIES OF 20	13'-5" TO 23'-9"
D404	1 SERIES OF 4	5'-8" TO 17'-2"
D406	1 SERIES OF 5	2'-8" TO 17'-3"
D409	2 SERIES OF 5	4'-4" TO 19'-4"
D411	1 SERIES OF 11	10'-2" TO 14'-0"
D812	1 SERIES OF 21	10'-6" TO 14'-6"
D414	1 SERIES OF 7	2'-7" TO 6'-2"
D416	1 SERIES OF 8	5'-1" TO 9'-3"
D419	2 SERIES OF 5	4'-6" TO 20'-2"
D421	1 SERIES OF 11	10'-2" TO 13'-10"
D822	1 SERIES OF 23	10'-6" TO 14'-8"
D424	1 SERIES OF 7	2'-7" TO 6'-0"
D426	1 SERIES OF 8	5'-3" TO 9'-3"



U411, U812, U421, U822
D411, D812, D421, D822

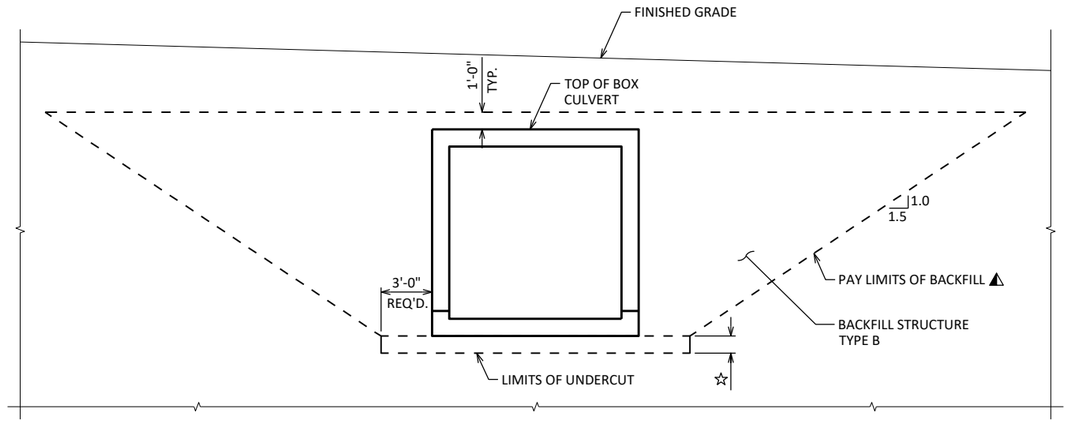


U401, D401



NAME PLATE DETAIL

WING 4

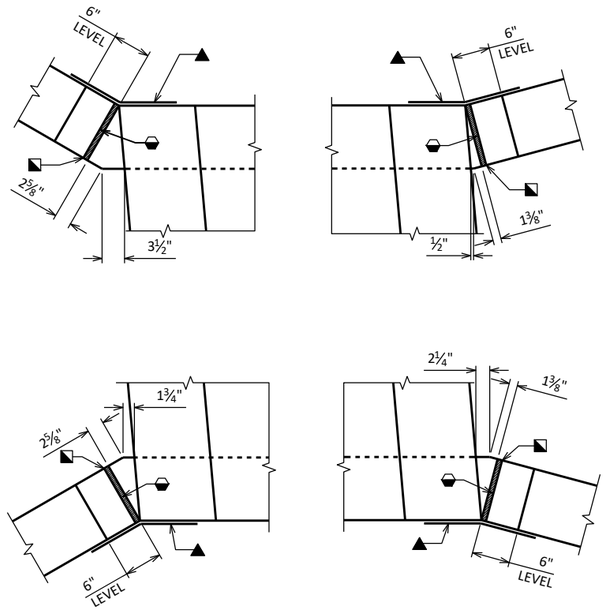


TYPICAL SECTION THRU BOX CULVERT

⚠ BACKFILL PAY LIMITS. BACKFILL BEYOND PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

☆ UNDERCUT 1'-0". EXCAVATION FOR UNDER CUT IS TO BE INCLUDED IN EXCAVATION FOR STRUCTURES. PLACE "GEOTEXTILE FABRIC TYPE C" AND BACKFILL WITH "BREAKER RUN".

IN LIEU OF USING BREAKER RUN FOR THE BOX CONSTRUCTION PLATFORM, THE CONTRACTOR MAY ELECT TO SUBSTITUTE #1 OR #2 CONCRETE COARSE AGGREGATE, SELECT CRUSHED MATERIAL OR OTHER GRANULAR MATERIAL AS APPROVED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR THE BASE STABILITY WITH ANY SUBSTITUTED MATERIAL. THE REGION GEOTECHNICAL ENGINEER MAY BE CONTACTED TO DETERMINE IF "OTHER GRANULAR MATERIAL" IS ACCEPTABLE.



CORNER DETAILS

◒ ¾" FILLER TO EXTEND FROM HORIZ. CONST. JOINT TO TOP OF WING.

◹ 1" BEVEL, TYP.

▲ 18" WIDE RUBBERIZED MEMBRANE WATERPROOFING, EXTEND FROM HORIZ. CONST. JOINT TO TOP OF WING.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-36-102

DRAWN BY JPH | PLANS CK'D SEW

DETAILS

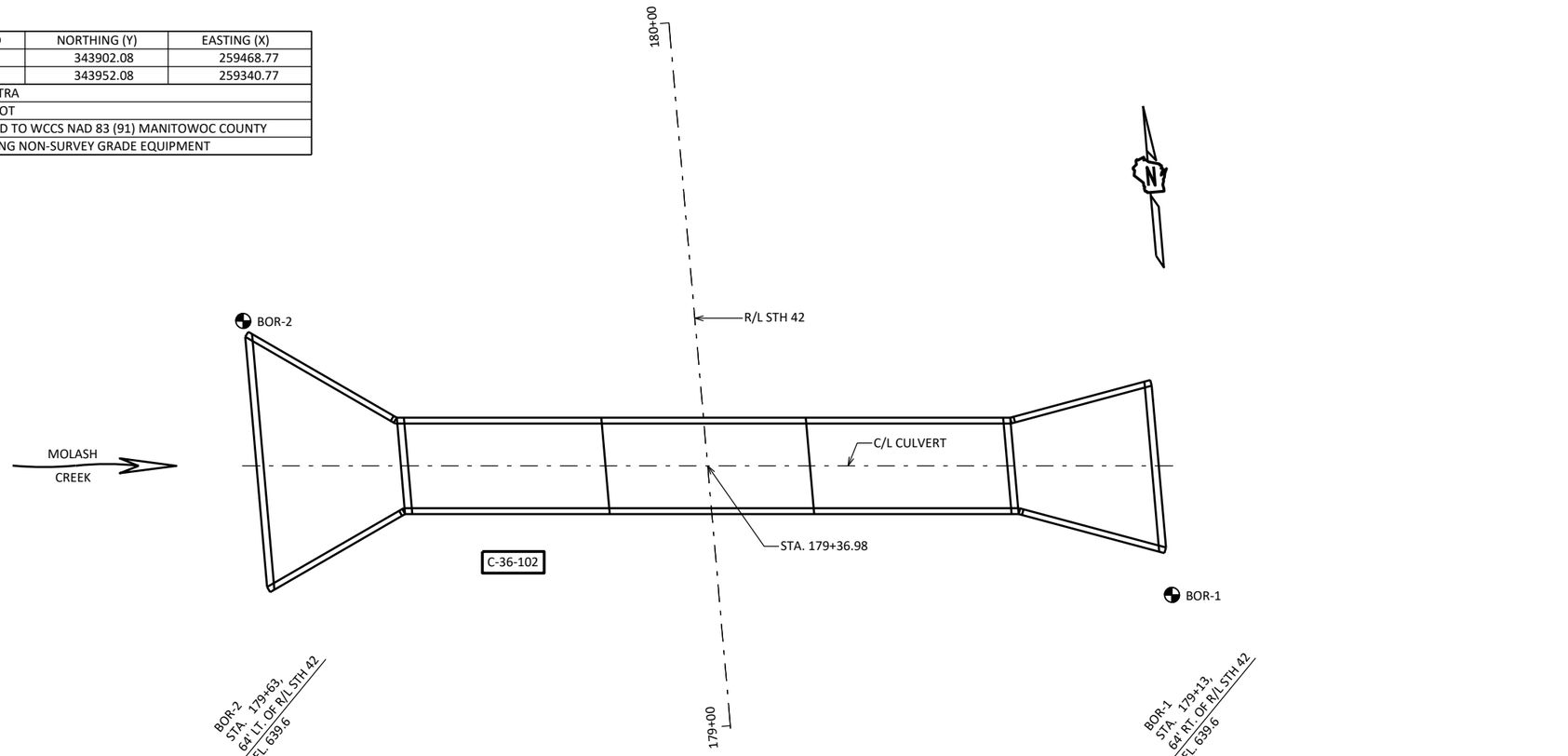
SHEET 5
174

SCALE = 2

8

8

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
1	11/17/2021	343902.08	259468.77
2	11/16/2021	343952.08	259340.77
BORINGS COMPLETED BY: GESTRA			
REPORT COMPLETED BY: WISDOT			
ALL COORDINATES REFERENCED TO WCCS NAD 83 (91) MANITOWOC COUNTY			
COORDINATES COLLECTED USING NON-SURVEY GRADE EQUIPMENT			



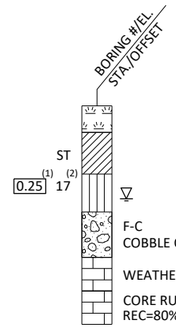
STATE PROJECT NUMBER

1470-30-71

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- AT TIME OF DRILLING
- END OF DRILLING
- AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-36-102

DRAWN BY JPH | PLANS CK'D SEW

SUBSURFACE EXPLORATION

SHEET 6
175

SCALE = 20

8

8

STH 42 LT - 177+50 TO 180+75

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	1.00 NOTE 1	1.33	NOTE 8
177+50	17750.00	0.00	0.00	0.00	14.53	0	0	0	0	0	0
177+75	17775.00	25.00	0.32	0.00	11.94	0	0	12	0	16	-16
178+00	17800.00	25.00	6.64	0.00	0.35	3	0	6	3	24	-21
178+25	17825.00	25.00	39.12	0.00	10.64	21	0	5	24	31	-7
178+50	17850.00	25.00	47.84	0.00	20.78	40	0	15	64	51	13
178+75	17875.00	25.00	13.26	0.00	44.15	28	0	30	92	90	2
179+00	17900.00	25.00	30.05	0.00	66.91	20	0	51	112	158	-46
179+25	17925.00	25.00	27.96	0.00	135.75	27	0	94	139	283	-144
179+30	17930.00	5.00	36.98	0.00	164.71	6	0	28	145	321	-176
179+40	17940.00	10.00	67.30	0.00	247.06	19	0	76	164	422	-258
179+50	17950.00	10.00	0.00	0.00	130.21	12	0	70	176	515	-339
179+75	17975.00	25.00	0.00	0.00	46.90	0	0	82	176	624	-448
180+00	18000.00	25.00	0.00	0.00	27.87	0	0	35	176	670	-494
180+25	18025.00	25.00	4.97	0.00	13.22	2	0	19	178	696	-518
180+50	18050.00	25.00	10.47	0.00	6.81	7	0	9	185	708	-523
180+75	18075.00	25.00	3.89	0.00	1.45	7	0	4	192	713	-521

STH 42 RT - 177+50 TO 180+75

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	1.00 NOTE 1	1.33	NOTE 8
177+25	17725.00	0.00	0.93	0.00	1.77	0	0	0	0	0	0
177+50	17750.00	25.00	1.84	0.00	1.47	1	0	1	1	1	0
177+75	17775.00	25.00	2.50	0.00	3.25	2	0	2	3	4	-1
178+00	17800.00	25.00	2.94	0.00	5.40	3	0	4	6	9	-3
178+25	17825.00	25.00	1.54	0.00	8.78	2	0	7	8	19	-11
178+50	17850.00	25.00	1.54	0.00	14.16	1	0	11	9	33	-24
178+75	17875.00	25.00	2.70	0.00	30.14	2	0	21	11	61	-50
179+00	17900.00	25.00	11.90	0.00	32.31	7	0	29	18	100	-82
179+25	17925.00	25.00	23.72	0.00	153.89	16	0	86	34	214	-180
179+30	17930.00	5.00	8.28	0.00	254.33	3	0	38	37	265	-228
179+40	17940.00	10.00	30.97	0.00	199.71	7	0	84	44	376	-332
179+50	17950.00	10.00	27.06	0.00	120.40	11	0	59	55	455	-400
179+75	17975.00	25.00	24.77	0.00	67.85	24	0	87	79	571	-492
180+00	18000.00	25.00	19.02	0.00	48.03	20	0	54	99	642	-543
180+25	18025.00	25.00	24.52	0.00	35.27	20	0	39	119	694	-575
180+50	18050.00	25.00	19.50	0.00	21.66	20	0	26	139	729	-590
180+75	18075.00	25.00	17.57	0.00	10.61	17	0	15	156	749	-593
181+00	18100.00	25.00	14.15	0.00	6.41	15	0	8	171	759	-588
181+25	18125.00	25.00	9.25	0.00	5.41	11	0	5	182	766	-584
181+50	18150.00	25.00	6.62	0.00	3.49	7	0	4	189	771	-582
181+75	18175.00	25.00	0.03	0.00	5.14	3	0	4	192	777	-585

Notes:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]

STH 42 LT - 340+00 TO 344+00

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	1.00 NOTE 1	1.33	NOTE 8
340+00	34000.00	0.00	1.42	0.00	7.64	0	0	0	0	0	0
340+25	34025.00	25.00	2.46	0.00	10.37	2	0	8	2	11	-9
340+50	34050.00	25.00	2.12	0.00	11.53	2	0	10	4	24	-20
340+68.38	34068.38	18.38	2.70	0.00	1.00	2	0	4	6	29	-23
340+75	34075.00	6.62	3.54	0.00	1.13	1	0	0	7	29	-22
340+83.67	34083.67	8.67	1.67	0.00	1.38	1	0	0	8	29	-21
340+93.23	34093.23	9.56	1.26	0.00	37.89	1	0	7	9	39	-30
341+00	34100.00	6.77	1.26	0.00	36.46	0	0	9	9	51	-42
341+08.67	34108.67	8.67	1.22	0.00	35.07	0	0	11	9	65	-56
341+18.23	34118.23	9.56	1.25	0.00	33.39	0	0	12	9	81	-72
341+25	34125.00	6.77	1.26	0.00	32.21	0	0	8	9	92	-83
341+33.65	34133.65	8.65	1.29	0.00	31.40	0	0	10	9	105	-96
341+43.2	34143.20	9.55	1.28	0.00	31.12	0	0	11	9	120	-111
341+50	34150.00	6.80	1.27	0.00	3.43	0	0	4	9	125	-116
341+58.63	34158.63	8.63	1.45	0.00	3.87	0	0	1	9	126	-117
341+75	34175.00	16.37	1.72	0.00	6.27	1	0	3	10	130	-120
342+00	34200.00	25.00	1.59	0.00	9.20	2	0	7	12	140	-128
342+25	34225.00	25.00	1.42	0.00	2.14	1	0	5	13	146	-133
342+50	34250.00	25.00	1.69	0.00	10.36	1	0	6	14	154	-140
342+75	34275.00	25.00	2.84	0.00	19.35	2	0	14	16	173	-157
343+00	34300.00	25.00	1.53	0.00	9.05	2	0	13	18	190	-172
343+02.38	34302.38	2.38	1.50	0.00	9.20	0	0	1	18	192	-174
343+25	34325.00	22.62	2.02	0.00	10.82	1	0	8	19	202	-183
343+27.36	34327.36	2.36	2.22	0.00	10.78	0	0	1	19	203	-184
343+36.94	34336.94	9.58	3.04	0.00	10.15	1	0	4	20	209	-189
343+50	34350.00	13.06	8.90	0.00	33.23	3	0	10	23	222	-199
343+52.35	34352.35	2.35	8.82	0.00	34.36	1	0	3	24	226	-202
343+61.92	34361.92	9.57	10.74	0.00	38.16	3	0	13	27	243	-216
343+86.91	34386.91	24.99	4.92	0.00	26.14	7	0	30	34	283	-249
344+00	34400.00	13.09	11.13	0.00	3.70	4	0	7	38	293	-255

Notes:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]

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STH 42 RT - 340+00 TO 344+00

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	1.00 NOTE 1	1.33	NOTE 8
340+00	34000.00	0.00	1.23	0.00	1.09	0	0	0	0	0	0
340+25	34025.00	25.00	1.58	0.00	3.28	1	0	2	1	3	-2
340+50	34050.00	25.00	1.38	0.00	5.54	1	0	4	2	8	-6
340+68.38	34068.38	18.38	1.69	0.00	3.56	1	0	3	3	12	-9
340+75	34075.00	6.62	1.37	0.00	0.68	0	0	1	3	13	-10
340+83.67	34083.67	8.67	1.76	0.00	0.44	1	0	0	4	13	-9
340+93.23	34093.23	9.56	2.06	0.00	0.67	1	0	0	5	13	-8
341+00	34100.00	6.77	1.95	0.00	0.87	1	0	0	6	13	-7
341+08.67	34108.67	8.67	2.02	0.00	9.14	1	0	2	7	16	-9
341+18.23	34118.23	9.56	2.16	0.00	11.51	1	0	4	8	21	-13
341+25	34125.00	6.77	2.10	0.00	12.88	1	0	3	9	25	-16
341+33.65	34133.65	8.65	1.66	0.00	13.38	1	0	4	10	31	-21
341+43.2	34143.20	9.55	1.48	0.00	13.11	1	0	5	11	37	-26
341+50	34150.00	6.80	1.31	0.00	12.71	0	0	3	11	41	-30
341+58.63	34158.63	8.63	1.46	0.00	2.34	0	0	2	11	44	-33
341+75	34175.00	16.37	1.71	0.00	2.75	1	0	2	12	47	-35
342+00	34200.00	25.00	1.61	0.00	2.55	2	0	2	14	49	-35
342+25	34225.00	25.00	1.41	0.00	1.36	1	0	2	15	52	-37
342+50	34250.00	25.00	1.59	0.00	0.37	1	0	1	16	53	-37
342+75	34275.00	25.00	1.66	0.00	0.15	2	0	0	18	53	-35
343+00	34300.00	25.00	1.56	0.00	0.31	1	0	0	19	53	-34
343+02.38	34302.38	2.38	1.53	0.00	0.29	0	0	0	19	53	-34
343+25	34325.00	22.62	2.59	0.00	9.60	2	0	4	21	59	-38
343+27.36	34327.36	2.36	1.71	0.00	4.00	0	0	1	21	60	-39
343+36.94	34336.94	9.58	3.22	0.00	12.49	1	0	3	22	64	-42
343+50	34350.00	13.06	2.58	0.00	14.49	1	0	7	23	73	-50
343+52.35	34352.35	2.35	2.27	0.00	14.74	0	0	1	23	74	-51
343+61.92	34361.92	9.57	1.46	0.00	10.41	1	0	4	24	80	-56
343+86.91	34386.91	24.99	11.24	0.00	2.76	6	0	6	30	88	-58
344+00	34400.00	13.09	1.43	0.00	7.50	3	0	2	33	90	-57

Notes:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]

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PROJECT NO: 1470-30-71 | HWY: STH 42 | COUNTY: MANITOWOC | EARTHWORK DATA | SHEET 178 | E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\090101-EW.DWG
LAYOUT NAME - 03

PLOT DATE : 10/3/2022 12:47 PM PLOT BY : SCHERER, MEGAN S PLOT NAME : PLOT SCALE : 1" = 1'

WISDOT/CADDS SHEET 49

STH 42 LT - 451+00 TO 454+00

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
									1.00	1.33	
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
451+09	45109.00	0.00	4.23	0.00	46.30	0	0	0	0	0	0
451+25	45125.00	16.00	25.64	0.00	98.58	9	0	43	9	57	-48
451+30	45130.00	5.00	37.66	0.00	132.87	6	0	21	15	85	-70
451+50	45150.00	20.00	10.62	0.00	35.47	18	0	62	33	168	-135
451+75	45175.00	25.00	2.39	0.00	15.87	6	0	24	39	200	-161
452+00	45200.00	25.00	2.89	0.00	17.73	2	0	16	41	221	-180
452+25	45225.00	25.00	12.63	0.00	14.97	7	0	15	48	241	-193
452+50	45250.00	25.00	16.74	0.00	12.86	14	0	13	62	258	-196
452+75	45275.00	25.00	18.05	0.00	8.53	16	0	10	78	271	-193
453+00	45300.00	25.00	13.15	0.00	6.18	14	0	7	92	281	-189
453+50	45350.00	50.00	1.92	0.00	8.69	14	0	14	106	299	-193
454+00	45400.00	50.00	1.46	0.00	2.59	3	0	10	109	313	-204

STH 42 RT - 451+00 TO 454+00

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
									1.00	1.33	
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
451+00	45100.00	0.00	0.00	0.00	18.82	0	0	0	0	0	0
451+09	45109.00	9.00	0.00	0.00	21.47	0	0	7	0	9	-9
451+25	45125.00	16.00	3.27	0.00	62.20	1	0	25	1	43	-42
451+30	45130.00	5.00	23.95	0.00	96.70	3	0	15	4	63	-59
451+50	45150.00	20.00	0.00	0.00	30.08	9	0	47	13	125	-112
451+75	45175.00	25.00	1.33	0.00	15.86	1	0	21	14	153	-139
452+00	45200.00	25.00	1.06	0.00	12.01	1	0	13	15	170	-155
452+25	45225.00	25.00	0.55	0.00	5.48	1	0	8	16	181	-165
452+50	45250.00	25.00	2.59	0.00	2.49	1	0	4	17	186	-169
452+75	45275.00	25.00	9.09	0.00	1.57	5	0	2	22	189	-167
453+00	45300.00	25.00	13.93	0.00	0.97	11	0	1	33	190	-157
453+50	45350.00	50.00	3.14	0.00	1.08	16	0	2	49	193	-144
454+00	45400.00	50.00	0.22	0.00	2.14	3	0	3	52	197	-145

Notes:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]

STH 42 LT - 541+75 TO 544+75

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	1.00 NOTE 1	1.33	NOTE 8
541+75	54175.00	0.00	0.00	0.00	8.93	0	0	0	0	0	0
542+00	54200.00	25.00	0.00	0.00	18.06	0	0	12	0	16	-16
542+25	54225.00	25.00	0.00	0.00	32.76	0	0	24	0	48	-48
542+50	54250.00	25.00	0.00	0.00	41.88	0	0	35	0	94	-94
542+75	54275.00	25.00	0.00	0.00	64.81	0	0	49	0	160	-160
543+00	54300.00	25.00	29.13	0.00	101.22	13	0	77	13	262	-249
543+10	54310.00	10.00	67.57	0.00	135.79	18	0	44	31	321	-290
543+25	54325.00	15.00	25.68	0.00	124.19	26	0	72	57	416	-359
543+32	54332.00	7.00	19.04	0.00	106.00	6	0	30	63	456	-393
543+50	54350.00	18.00	9.50	0.00	52.31	10	0	53	73	527	-454
543+75	54375.00	25.00	3.57	0.00	25.64	6	0	36	79	575	-496
544+00	54400.00	25.00	3.86	0.00	16.29	3	0	19	82	600	-518
544+25	54425.00	25.00	2.15	0.00	8.62	3	0	12	85	616	-531
544+50	54450.00	25.00	0.00	0.00	5.72	1	0	7	86	625	-539
544+75	54475.00	25.00	0.00	0.00	1.89	0	0	4	86	630	-544

STH 42 RT - 541+75 TO 544+75

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	1.00 NOTE 1	1.33	NOTE 8
542+25	54225.00	0.00	5.52	0.00	0.37	0	0	0	0	0	0
542+50	54250.00	25.00	1.64	0.00	0.95	3	0	1	3	1	2
542+75	54275.00	25.00	0.00	0.00	6.48	1	0	3	4	5	-1
543+00	54300.00	25.00	0.00	0.00	18.17	0	0	11	4	20	-16
543+10	54310.00	10.00	0.00	0.00	37.81	0	0	10	4	33	-29
543+25	54325.00	15.00	0.05	0.00	172.62	0	0	58	4	110	-106
543+32	54332.00	7.00	0.87	0.00	203.94	0	0	49	4	176	-172
543+50	54350.00	18.00	0.03	0.00	53.58	0	0	86	4	290	-286
543+75	54375.00	25.00	1.97	0.00	19.19	1	0	34	5	335	-330
544+00	54400.00	25.00	4.87	0.00	8.45	3	0	13	8	352	-344
544+25	54425.00	25.00	0.72	0.00	9.92	3	0	9	11	364	-353
544+50	54450.00	25.00	0.23	0.00	1.33	0	0	5	11	371	-360
544+75	54475.00	25.00	0.04	0.00	0.91	0	0	1	11	372	-361

Notes:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]

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STH 42 LT - 565+50 TO 571+75

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	1.00 NOTE 1	1.33	NOTE 8
565+50	56550.00	0.00	0.59	0.00	0.25	0	0	0	0	0	0
565+75	56575.00	25.00	0.55	0.00	0.26	1	0	0	1	0	1
566+00	56600.00	25.00	0.46	0.00	0.33	0	0	0	1	0	1
566+25	56625.00	25.00	0.81	0.00	0.45	1	0	0	2	0	2
566+49.361	56649.36	24.36	0.63	0.00	0.62	1	0	0	3	0	3
566+50.25	56650.25	0.89	0.61	0.00	0.63	0	0	0	3	0	3
566+74.379	56674.38	24.13	0.60	0.00	1.27	1	0	1	4	1	3
566+75	56675.00	0.62	0.61	0.00	1.28	0	0	0	4	1	3
566+99.356	56699.36	24.36	0.00	0.00	4.27	0	0	3	4	5	-1
567+00.134	56700.13	0.78	0.00	0.00	4.32	0	0	0	4	5	-1
567+25	56725.00	24.87	0.00	0.00	7.06	0	0	5	4	12	-8
567+50	56750.00	25.00	0.00	0.00	12.31	0	0	9	4	24	-20
567+75	56775.00	25.00	10.33	0.00	2.52	5	0	7	9	33	-24
567+80.598	56780.60	5.60	11.96	0.00	1.77	2	0	0	11	33	-22
568+05.602	56805.60	25.00	6.54	0.00	3.44	9	0	2	20	36	-16
568+25	56825.00	19.40	0.00	0.00	13.85	2	0	6	22	44	-22
568+30.602	56830.60	5.60	0.00	0.00	15.51	0	0	3	22	48	-26
568+50	56850.00	19.40	0.73	0.00	3.40	0	0	7	22	57	-35
568+55.602	56855.60	5.60	1.58	0.00	3.24	0	0	1	22	59	-37
568+75	56875.00	19.40	0.00	0.00	32.24	1	0	13	23	76	-53
569+00	56900.00	25.00	1.34	0.00	2.66	1	0	16	24	97	-73
569+25	56925.00	25.00	0.82	0.00	2.59	1	0	2	25	100	-75
569+50	56950.00	25.00	0.00	0.00	2.05	0	0	2	25	102	-77
569+75	56975.00	25.00	0.00	0.00	1.89	0	0	2	25	105	-80
569+80.609	56980.61	5.61	0.01	0.00	1.70	0	0	0	25	105	-80
570+00	57000.00	19.39	0.02	0.00	1.73	0	0	1	25	106	-81
570+05.575	57005.58	5.58	0.00	0.00	2.01	0	0	0	25	106	-81
570+25	57025.00	19.42	0.00	0.00	3.23	0	0	2	25	109	-84
570+30.573	57030.57	5.57	0.00	0.00	3.17	0	0	1	25	110	-85
570+36.822	57036.82	6.25	0.01	0.00	3.02	0	0	1	25	112	-87
570+50	57050.00	13.18	0.00	0.00	5.78	0	0	2	25	114	-89
570+55.623	57055.62	5.62	0.00	0.00	9.26	0	0	2	25	117	-92
570+61.744	57061.74	6.12	0.00	0.00	12.95	0	0	3	25	121	-96
570+75	57075.00	13.26	0.05	0.00	13.21	0	0	6	25	129	-104
570+86.822	57086.82	11.82	0.10	0.00	13.98	0	0	6	25	137	-112
571+00	57100.00	13.18	0.25	0.00	15.33	0	0	7	25	146	-121
571+11.822	57111.82	11.82	0.16	0.00	11.42	0	0	6	25	154	-129
571+25	57125.00	13.18	0.01	0.00	9.55	0	0	5	25	161	-136
571+50	57150.00	25.00	0.00	0.00	6.42	0	0	7	25	170	-145
571+75	57175.00	25.00	0.02	0.00	2.41	0	0	4	25	176	-151

Notes:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]

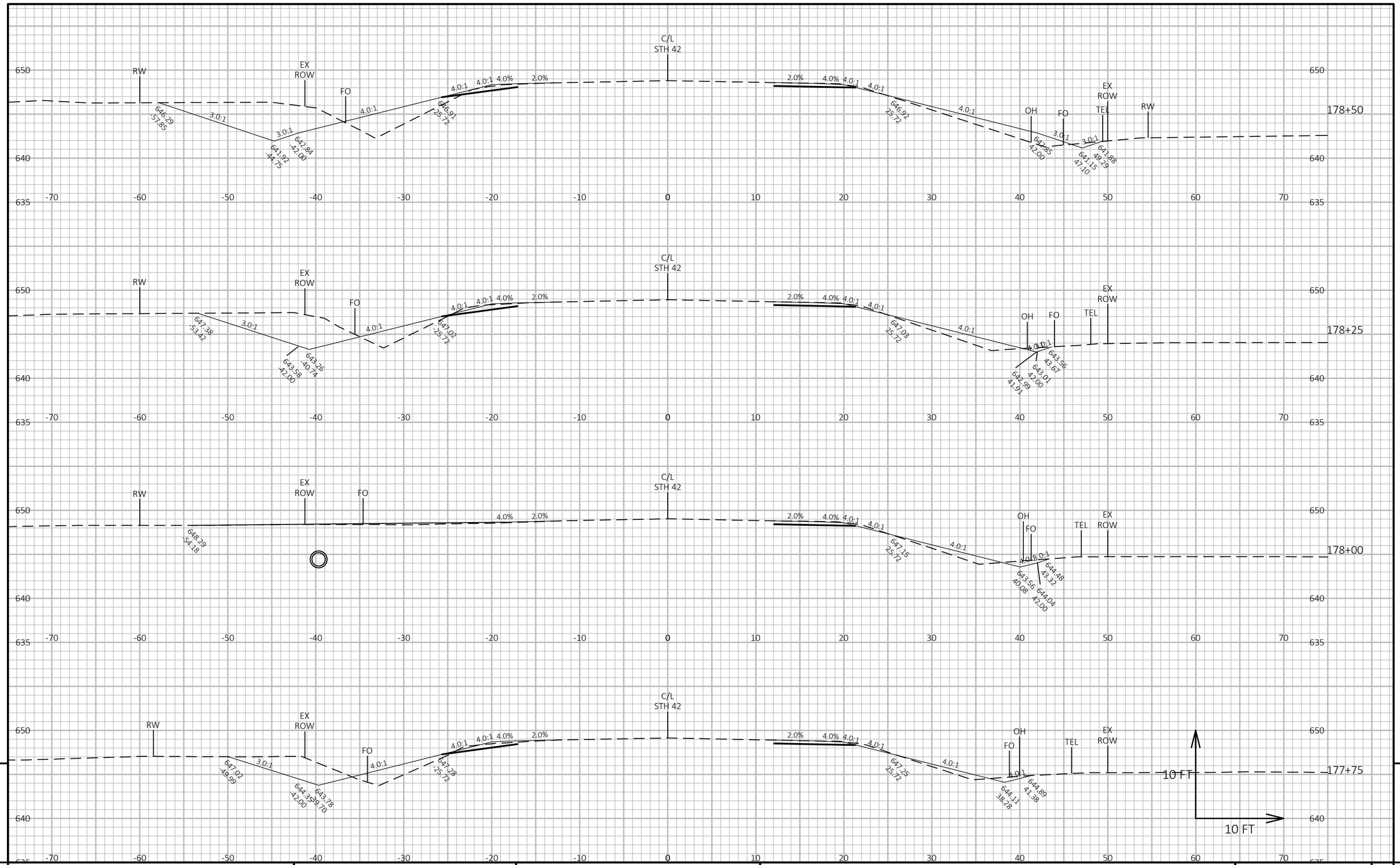
STH 42 RT - 565+50 TO 571+75

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.33	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
565+50	56550.00	0.00	0.00	0.00	7.05	0	0	0	0	0	0
565+75	56575.00	25.00	0.00	0.00	11.24	0	0	8	0	11	-11
566+00	56600.00	25.00	0.00	0.00	15.43	0	0	12	0	27	-27
566+25	56625.00	25.00	0.00	0.00	16.23	0	0	15	0	47	-47
566+49.361	56649.36	24.36	0.76	0.00	11.07	0	0	12	0	63	-63
566+50	56650.00	0.64	0.52	0.00	10.96	0	0	0	0	63	-63
566+74.379	56674.38	24.38	0.03	0.00	11.73	0	0	10	0	76	-76
566+75	56675.00	0.62	0.03	0.00	11.69	0	0	0	0	76	-76
566+99.356	56699.36	24.36	0.01	0.00	1.35	0	0	6	0	84	-84
567+00	56700.00	0.64	0.02	0.00	1.30	0	0	0	0	84	-84
567+25	56725.00	25.00	0.01	0.00	1.24	0	0	1	0	85	-85
567+50	56750.00	25.00	1.60	0.00	1.46	1	0	1	1	86	-85
567+75	56775.00	25.00	0.00	0.00	5.28	1	0	3	2	90	-88
567+80.598	56780.60	5.60	0.00	0.00	7.07	0	0	1	2	92	-90
568+05.602	56805.60	25.00	0.04	0.00	22.04	0	0	13	2	109	-107
568+25	56825.00	19.40	0.08	0.00	3.97	0	0	9	2	121	-119
568+30.602	56830.60	5.60	1.71	0.00	2.53	0	0	1	2	122	-120
568+50	56850.00	19.40	1.42	0.00	2.39	1	0	2	3	125	-122
568+55.602	56855.60	5.60	1.30	0.00	2.12	0	0	0	3	125	-122
568+75	56875.00	19.40	0.17	0.00	2.36	1	0	2	4	128	-124
569+00	56900.00	25.00	0.07	0.00	1.83	0	0	2	4	130	-126
569+25	56925.00	25.00	0.00	0.00	1.56	0	0	2	4	133	-129
569+50	56950.00	25.00	0.00	0.00	3.23	0	0	2	4	136	-132
569+75	56975.00	25.00	0.00	0.00	5.25	0	0	4	4	141	-137
569+80.609	56980.61	5.61	0.00	0.00	6.11	0	0	1	4	142	-138
570+00	57000.00	19.39	0.00	0.00	14.33	0	0	7	4	152	-148
570+05.575	57005.58	5.58	0.00	0.00	16.57	0	0	3	4	156	-152
570+25	57025.00	19.42	0.00	0.00	17.71	0	0	12	4	172	-168
570+30.573	57030.57	5.57	0.00	0.00	17.54	0	0	4	4	177	-173
570+36.822	57036.82	6.25	0.01	0.00	17.56	0	0	4	4	182	-178
570+50	57050.00	13.18	0.00	0.00	15.54	0	0	8	4	193	-189
570+55.623	57055.62	5.62	0.00	0.00	13.97	0	0	3	4	197	-193
570+61.744	57061.74	6.12	0.00	0.00	14.10	0	0	3	4	201	-197
570+75	57075.00	13.26	0.00	0.00	12.80	0	0	7	4	210	-206
570+86.822	57086.82	11.82	0.00	0.00	9.74	0	0	5	4	217	-213
571+00	57100.00	13.18	0.00	0.00	7.01	0	0	4	4	222	-218
571+11.822	57111.82	11.82	0.01	0.00	4.89	0	0	3	4	226	-222
571+25	57125.00	13.18	0.00	0.00	2.87	0	0	2	4	229	-225
571+50	57150.00	25.00	0.50	0.00	1.40	0	0	2	4	231	-227
571+75	57175.00	25.00	0.51	0.00	0.45	0	0	1	4	233	-229

Notes:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]

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PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: CROSS SECTIONS	SHEET 183	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 01

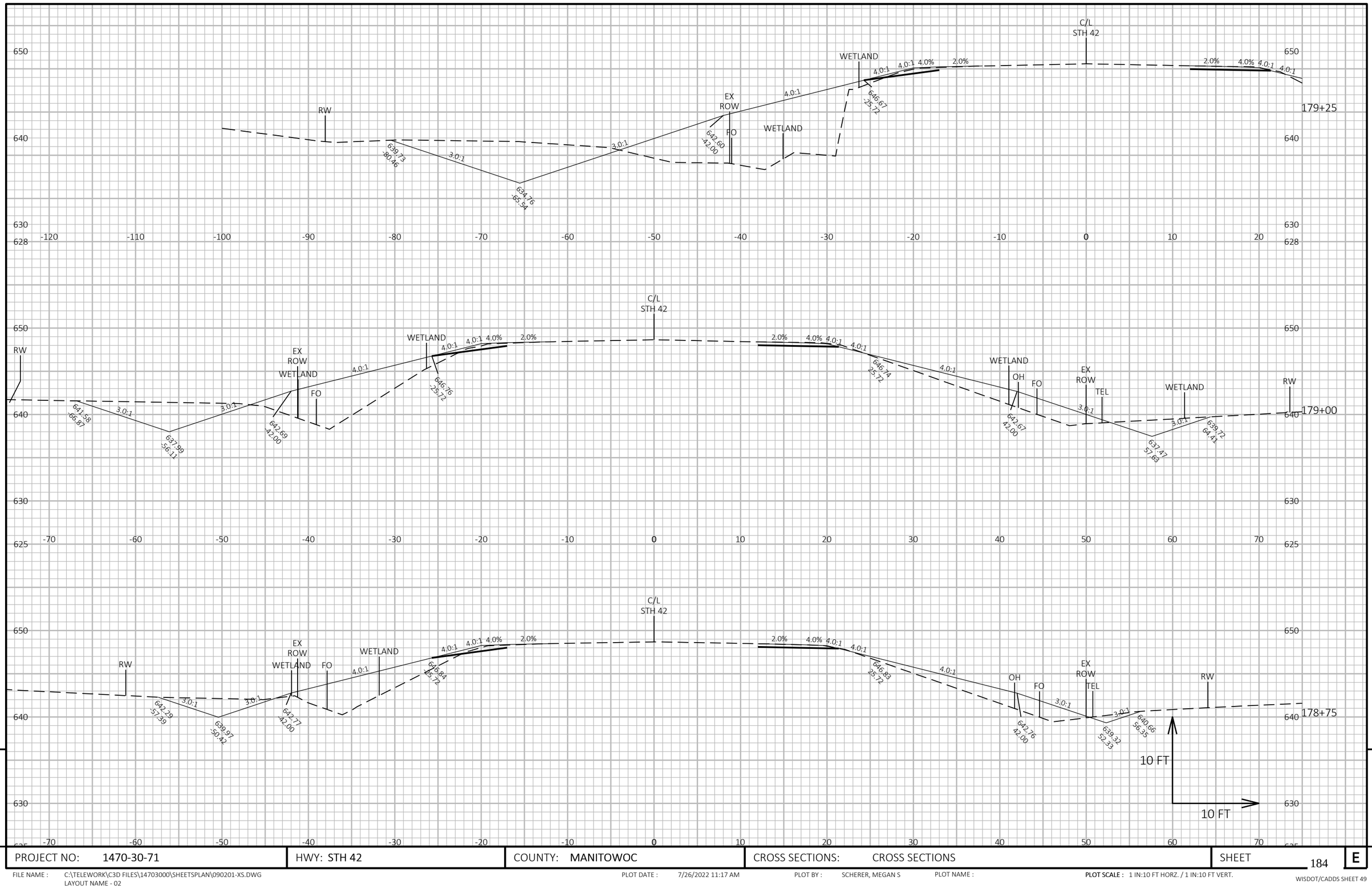
PLOT DATE : 7/26/2022 11:17 AM

PLOT BY : SCHERER, MEGAN S

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

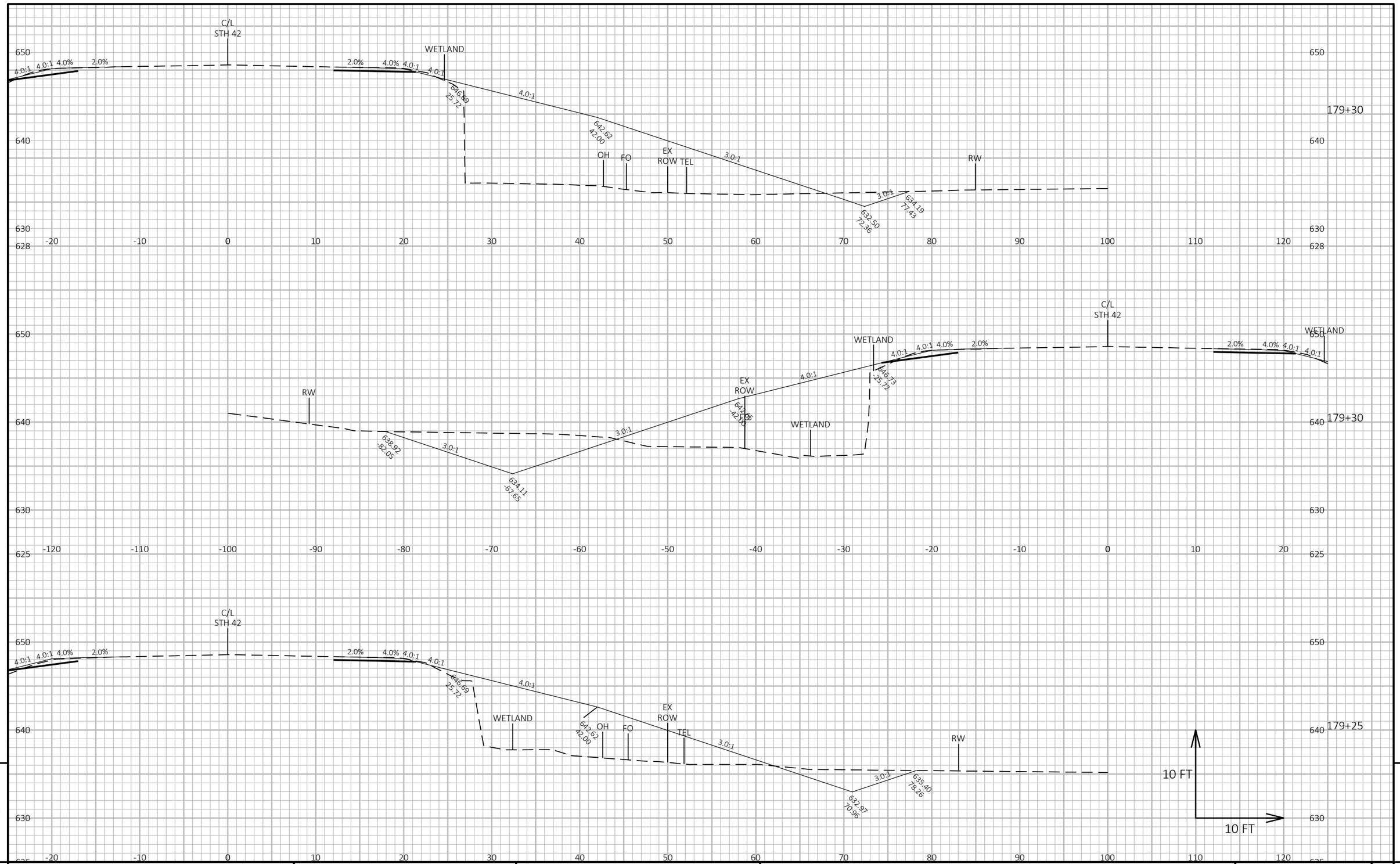


PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: CROSS SECTIONS	SHEET 184	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 02

PLOT DATE : 7/26/2022 11:17 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: CROSS SECTIONS	SHEET 185	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 03

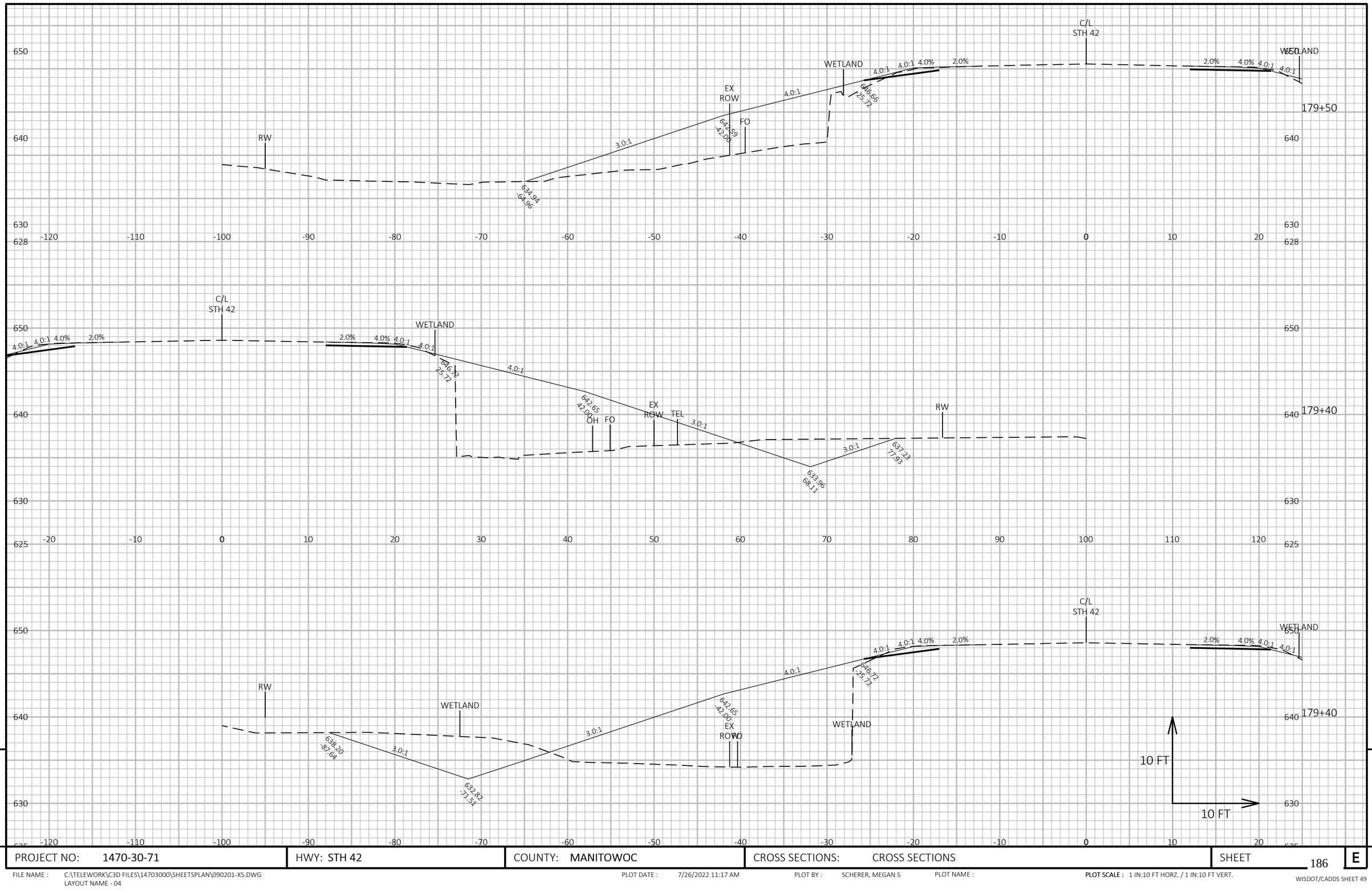
PLOT DATE : 7/26/2022 11:17 AM

PLOT BY : SCHERER, MEGAN S

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

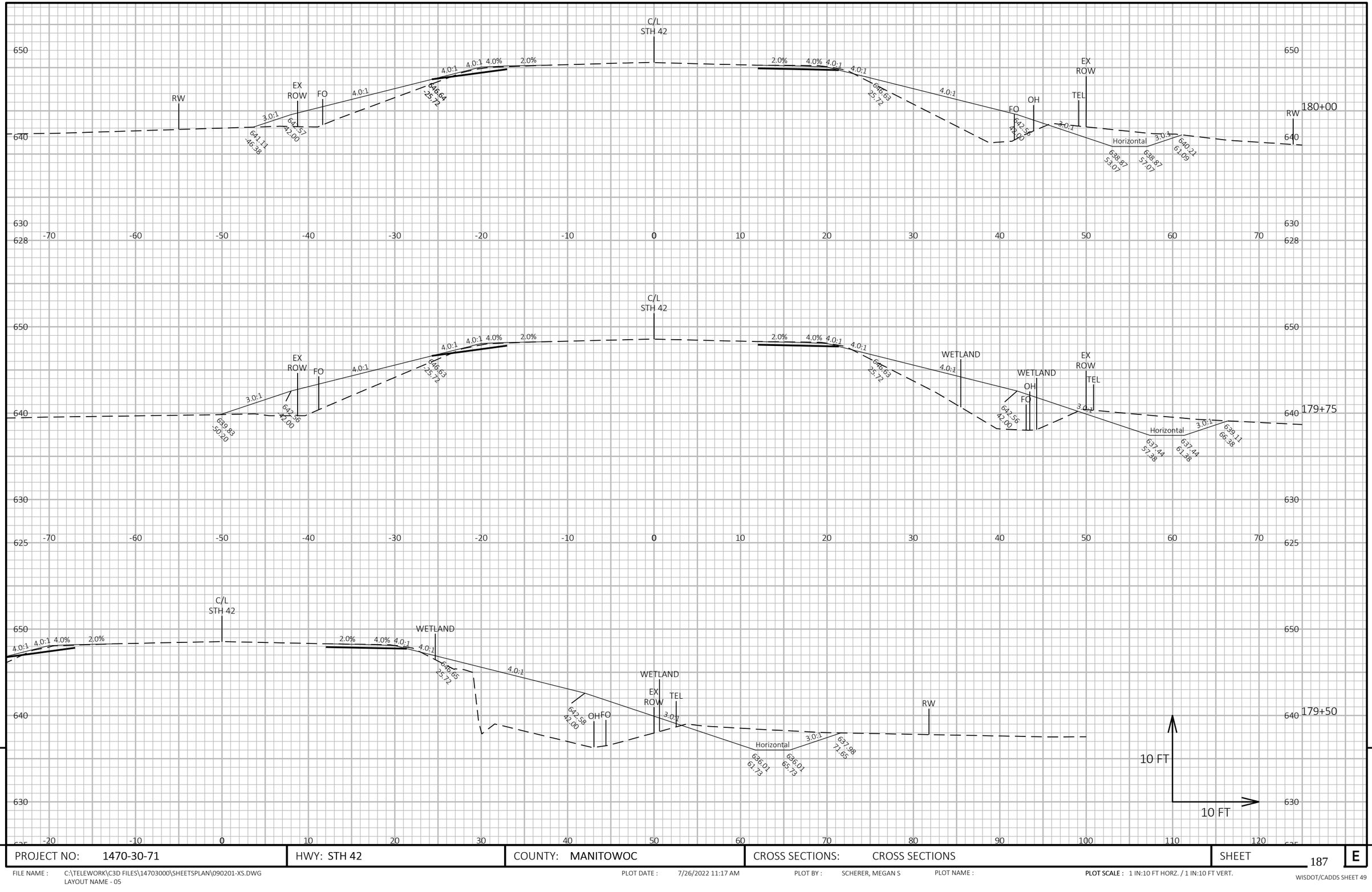
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PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: CROSS SECTIONS	SHEET 186	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 04

PLOT DATE : 7/26/2022 11:17 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

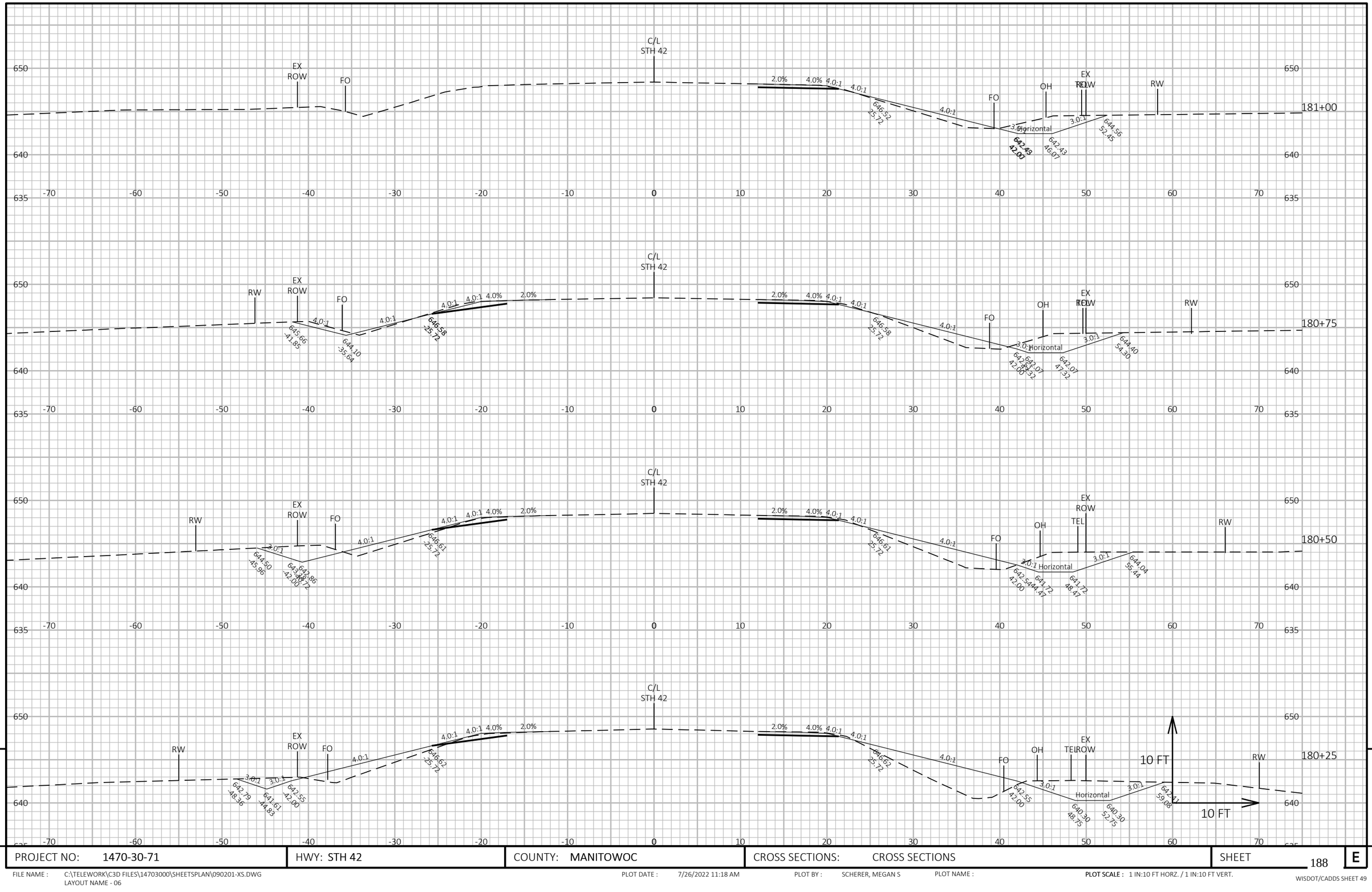


PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: CROSS SECTIONS	SHEET 187 E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 05

PLOT DATE : 7/26/2022 11:17 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

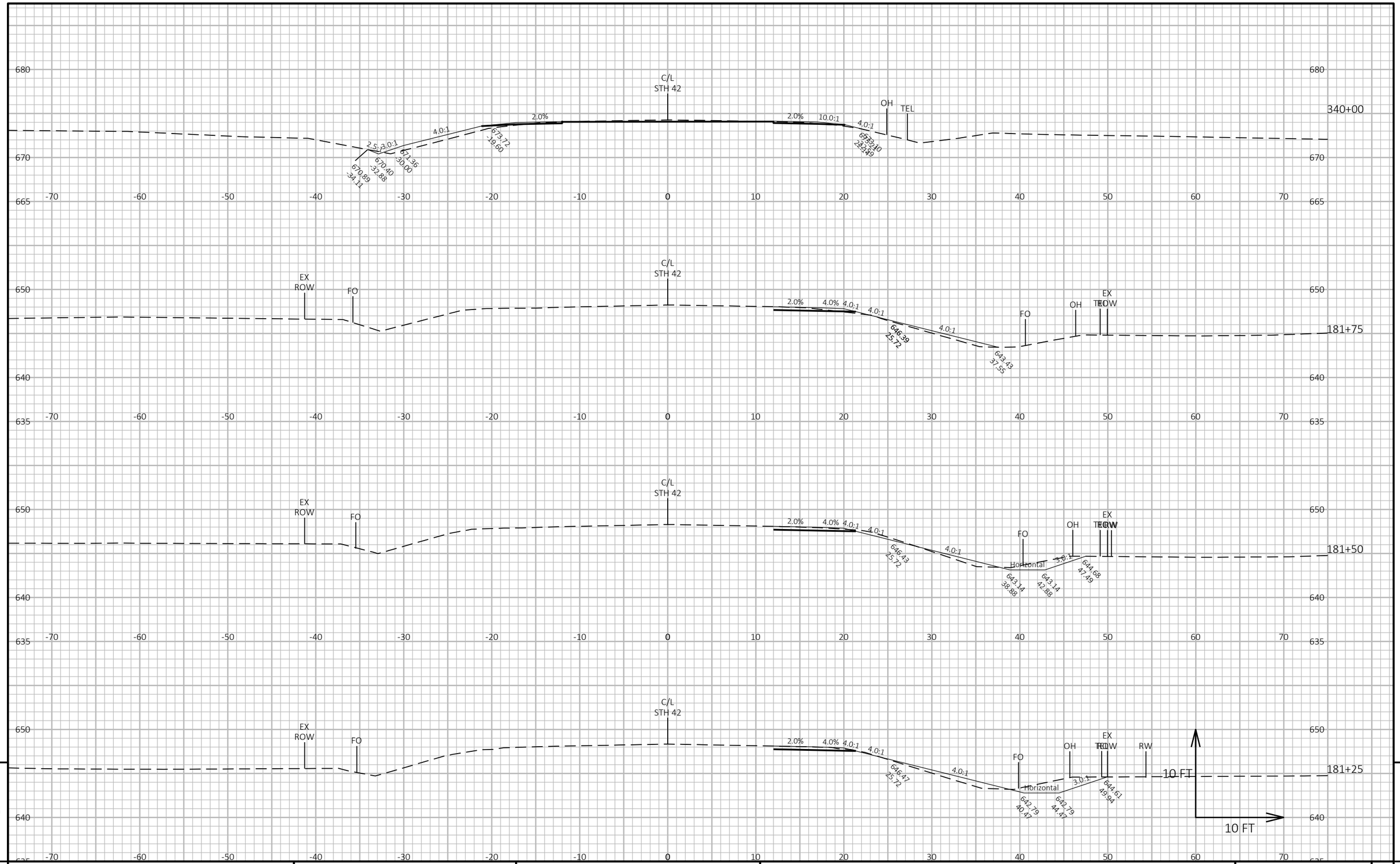
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PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: CROSS SECTIONS	SHEET 188	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 06

PLOT DATE : 7/26/2022 11:18 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

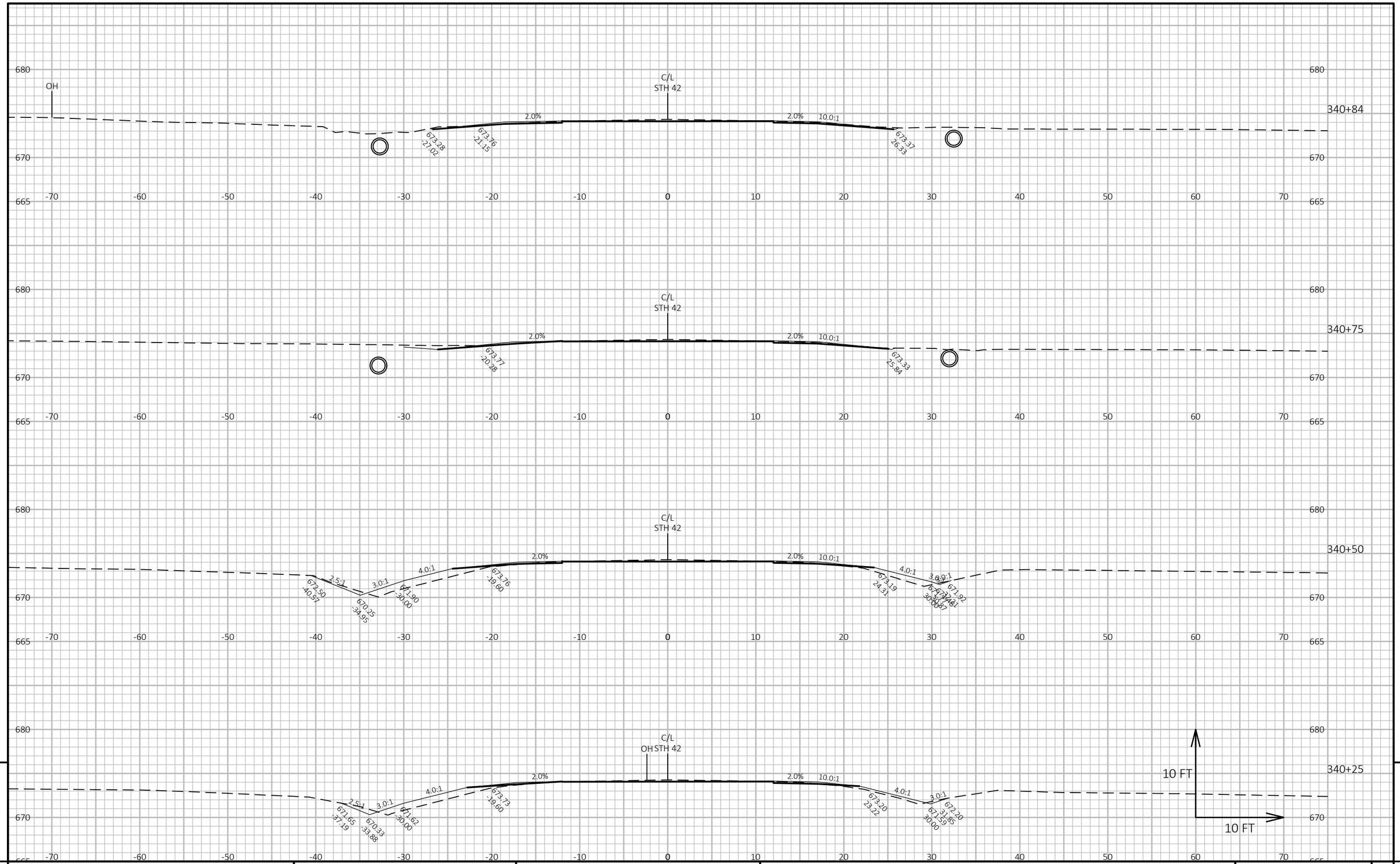


PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: CROSS SECTIONS	SHEET 189 E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 07

PLOT DATE : 7/26/2022 11:18 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

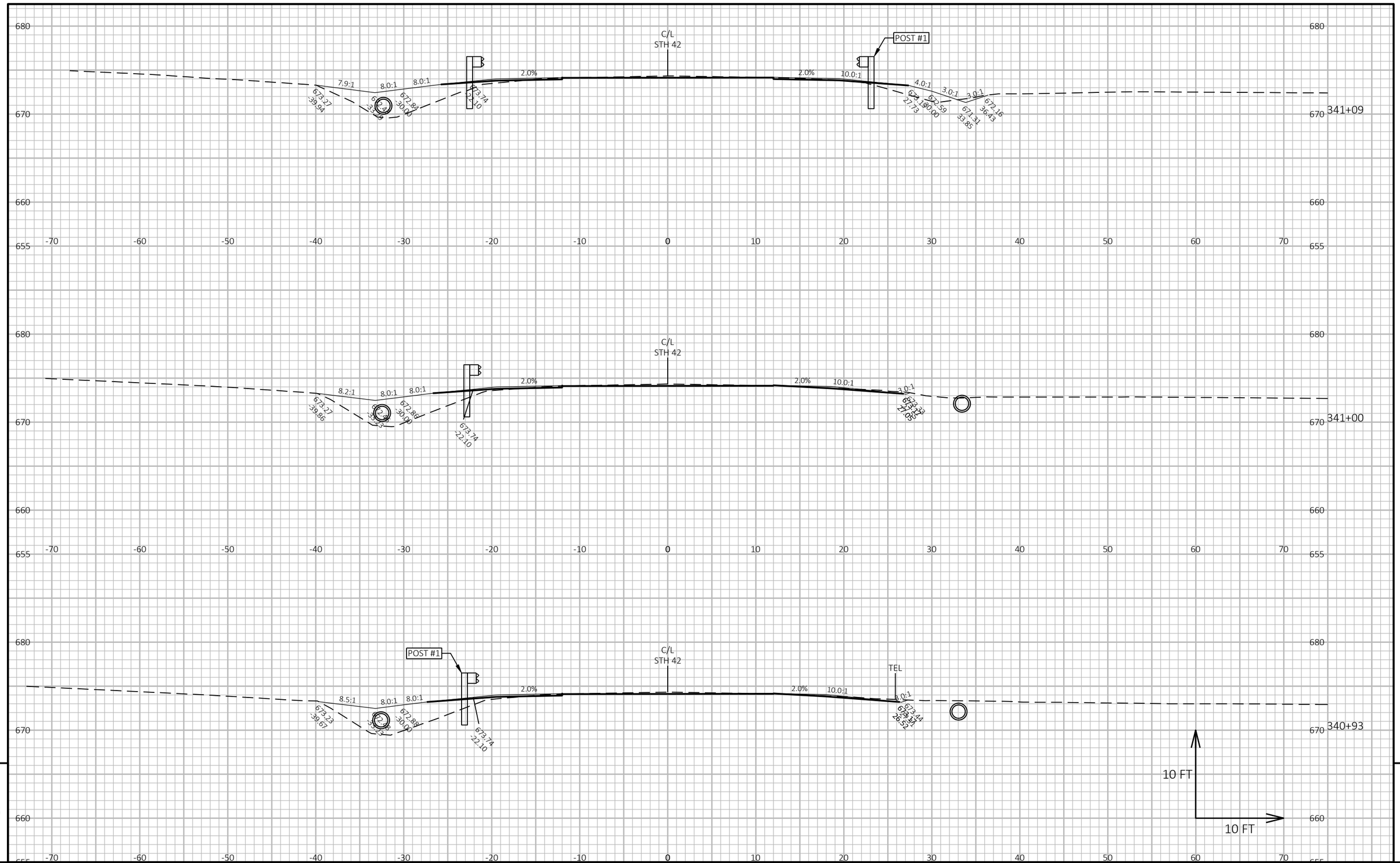
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PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: CROSS SECTIONS	SHEET 190	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 08

PLOT DATE : 7/26/2022 11:18 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



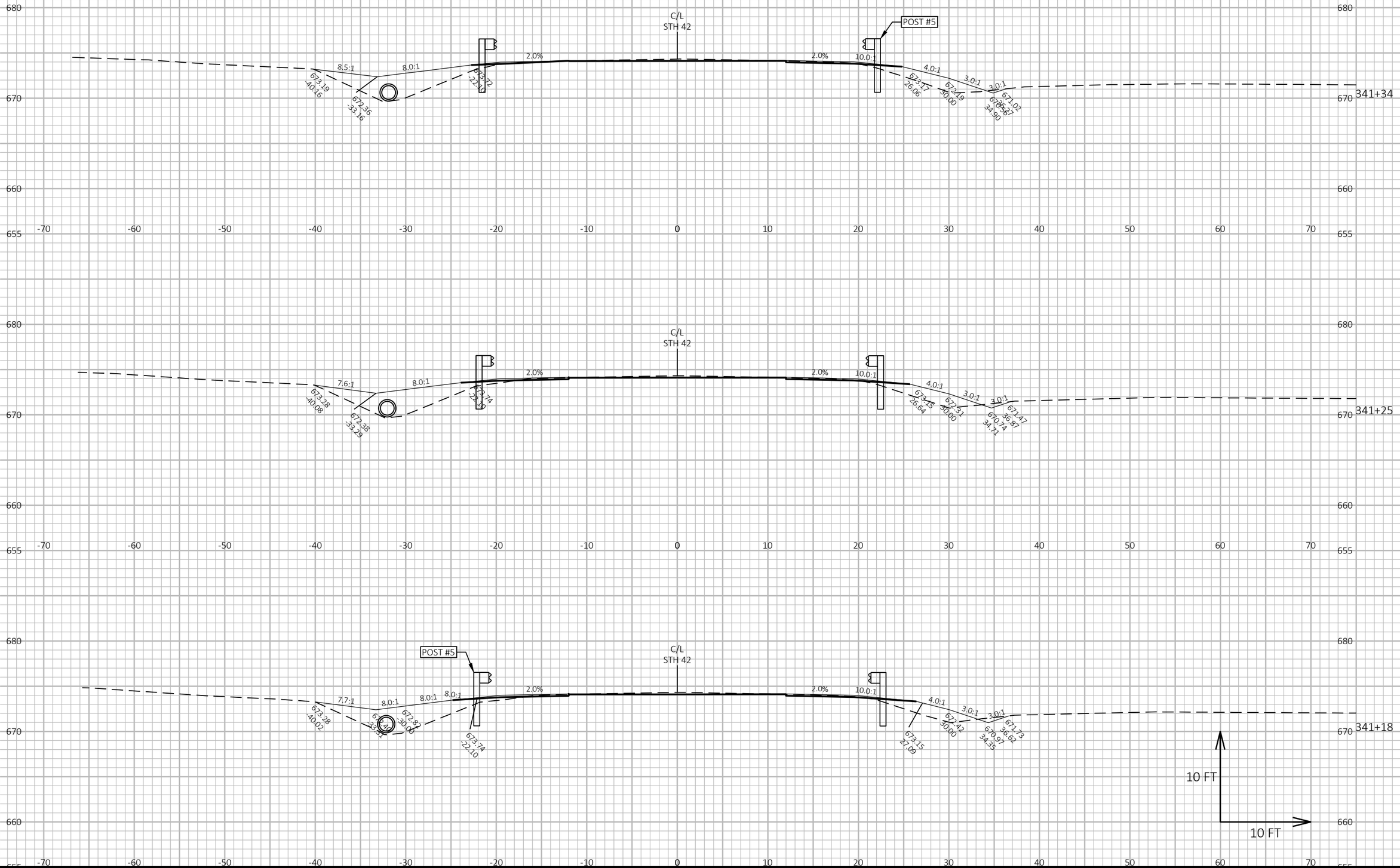
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PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: CROSS SECTIONS	SHEET 191	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 09

PLOT DATE : 7/26/2022 11:18 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



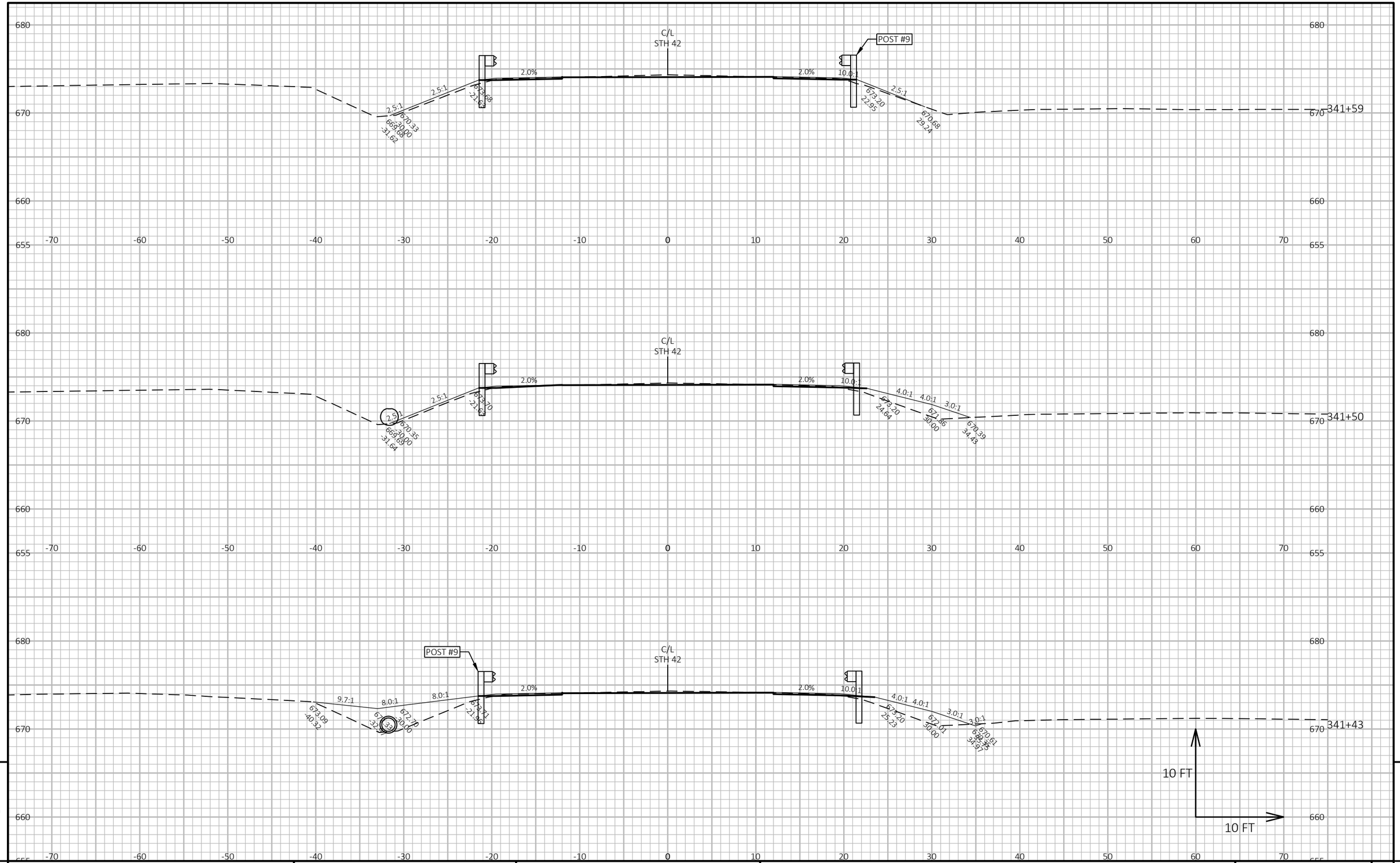
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9

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: CROSS SECTIONS	SHEET 192	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 10

PLOT DATE : 7/26/2022 11:18 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

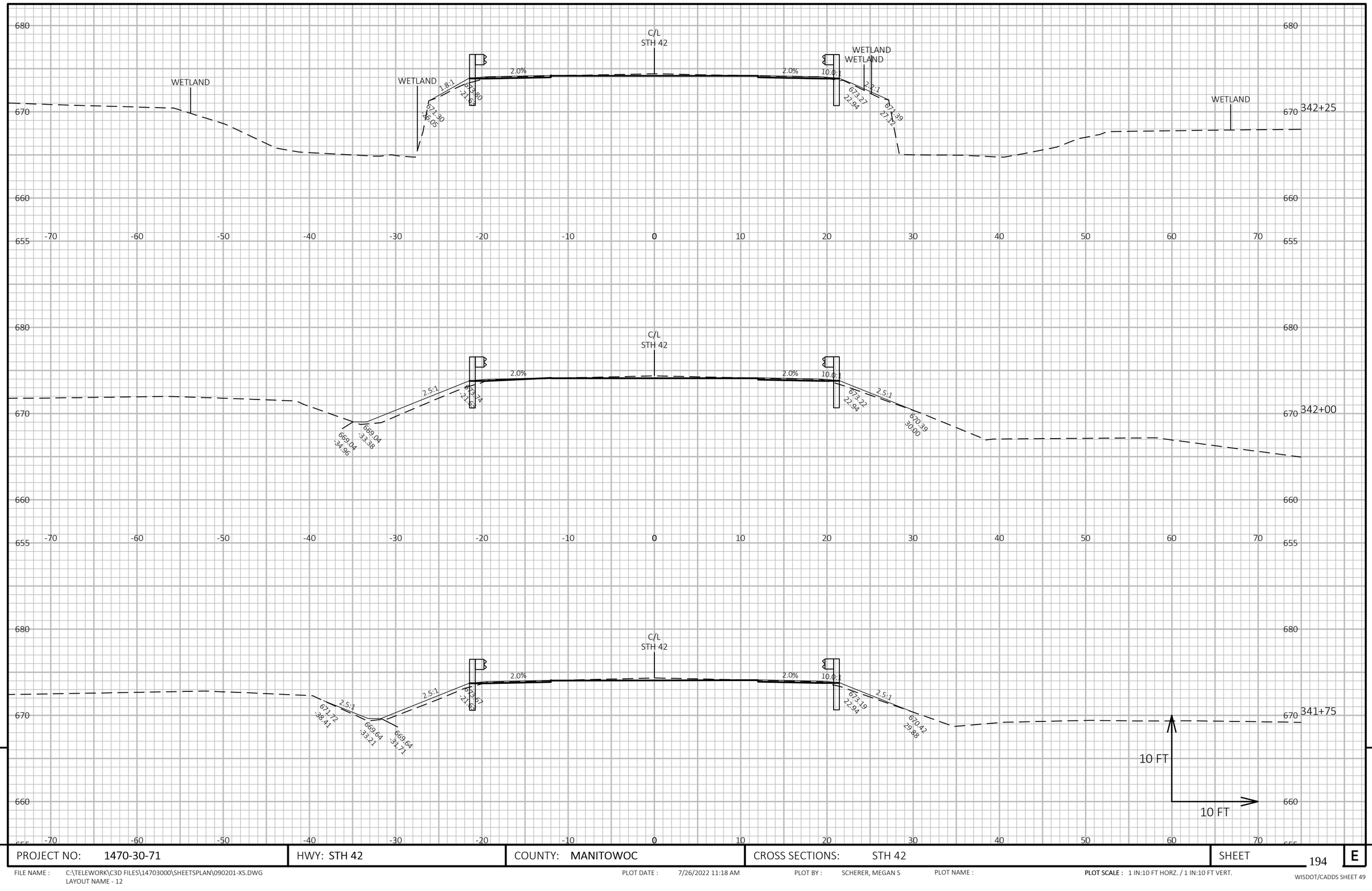
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PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: CROSS SECTIONS	SHEET 193	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 11

PLOT DATE : 7/26/2022 11:18 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

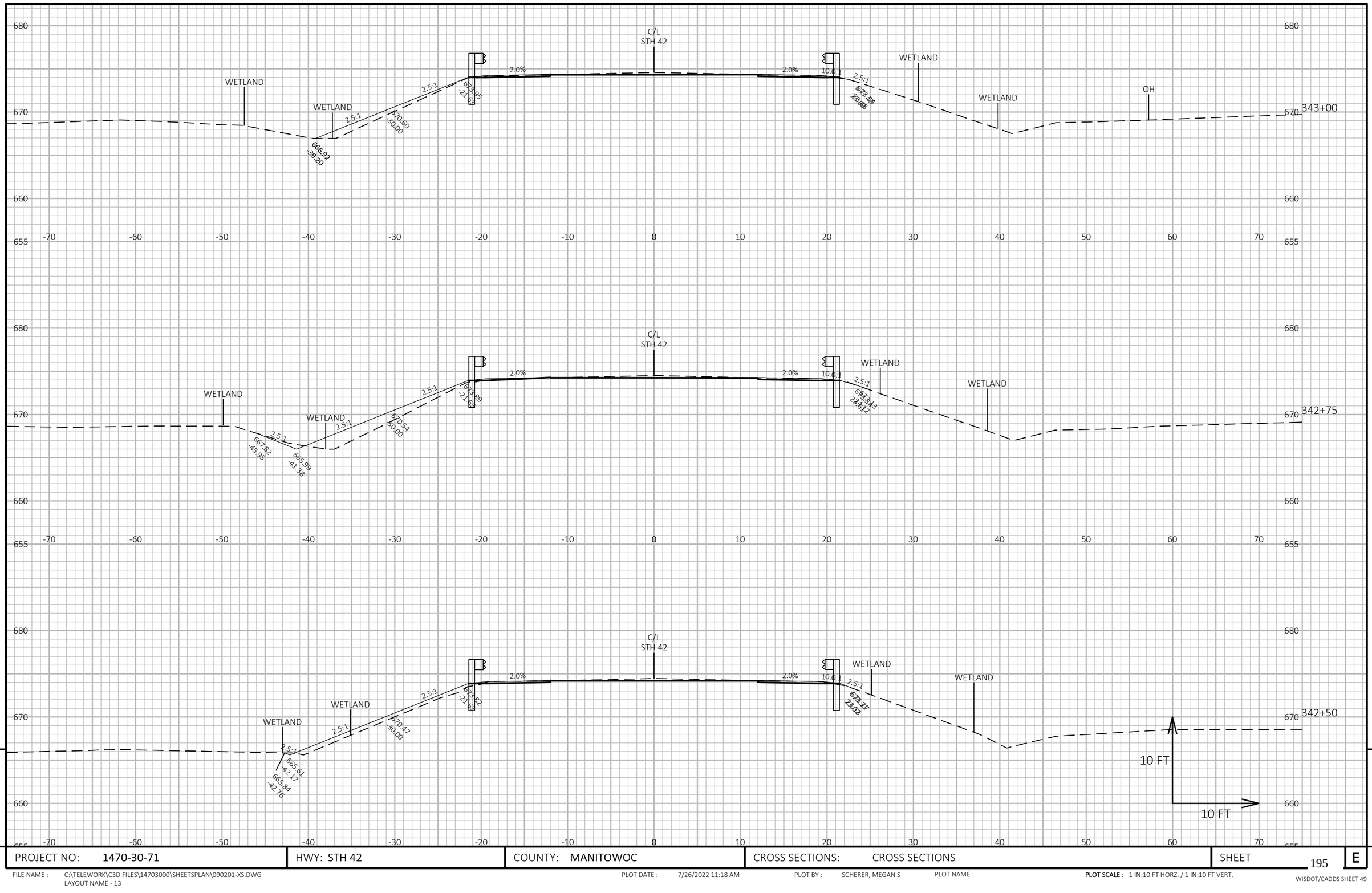
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PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET 194	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 12

PLOT DATE : 7/26/2022 11:18 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

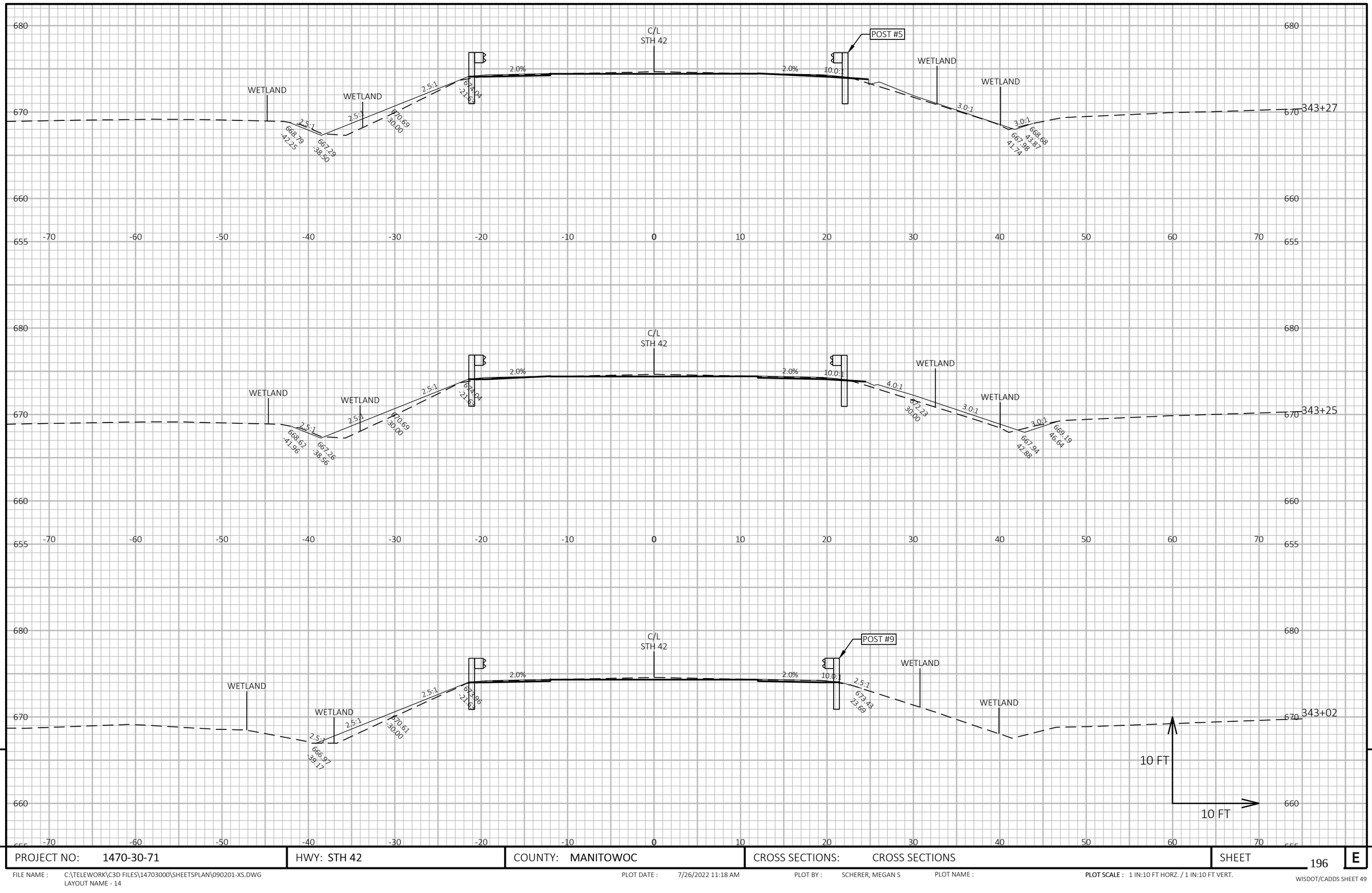
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PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: CROSS SECTIONS	SHEET 195	E

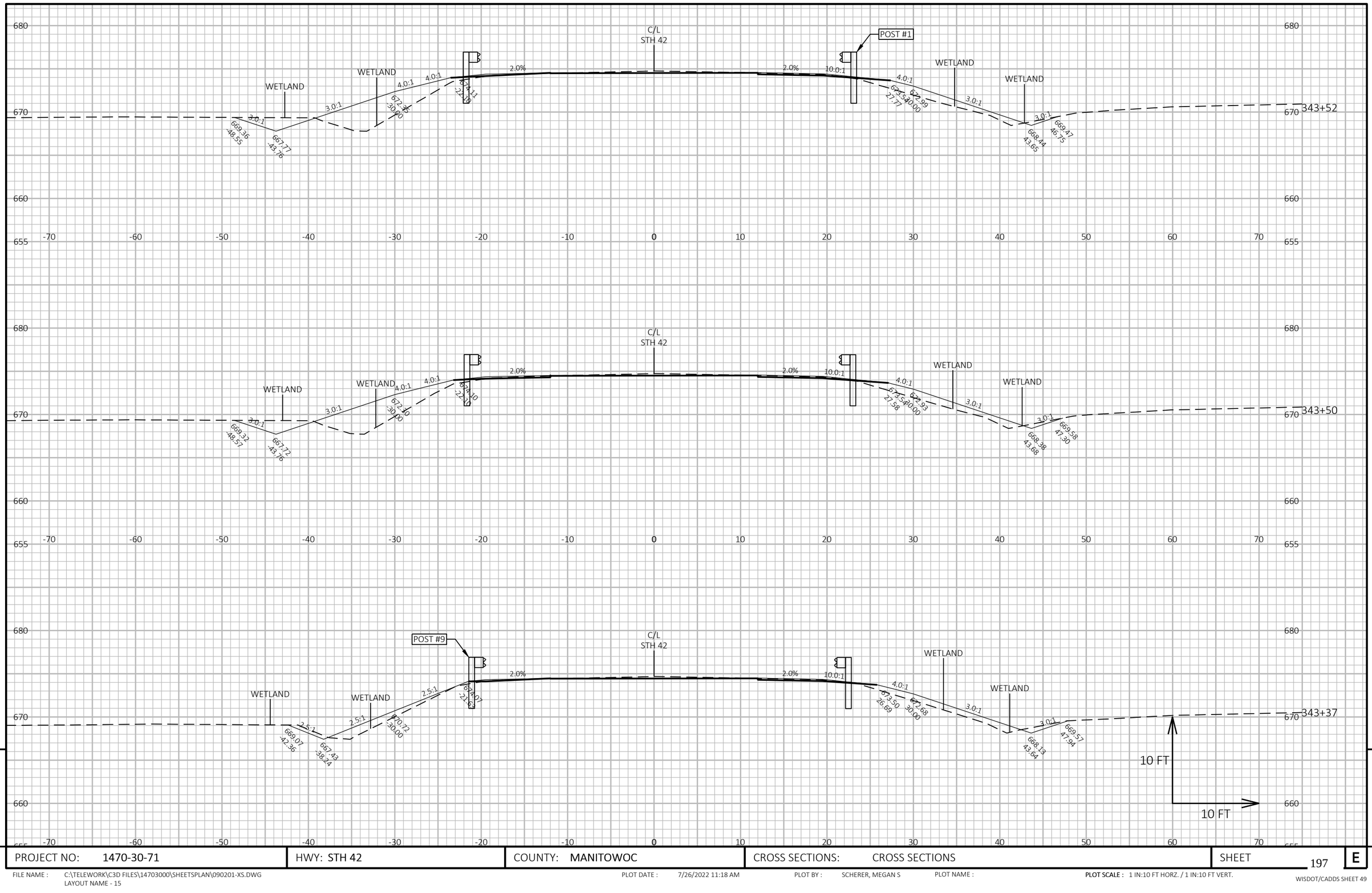
FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 13

PLOT DATE : 7/26/2022 11:18 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: CROSS SECTIONS	SHEET 196	E



9

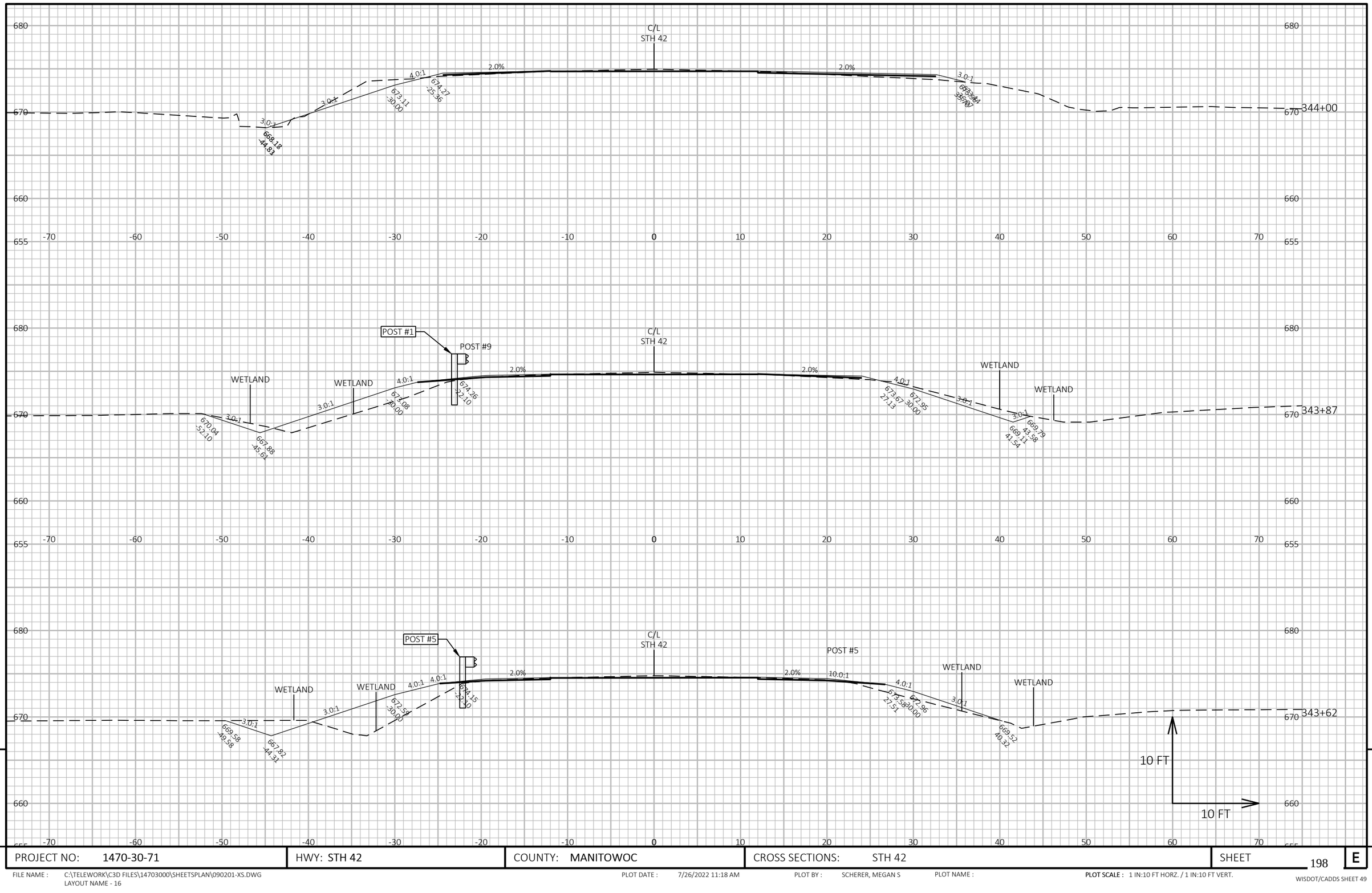
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PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: CROSS SECTIONS	SHEET 197	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 15

PLOT DATE : 7/26/2022 11:18 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

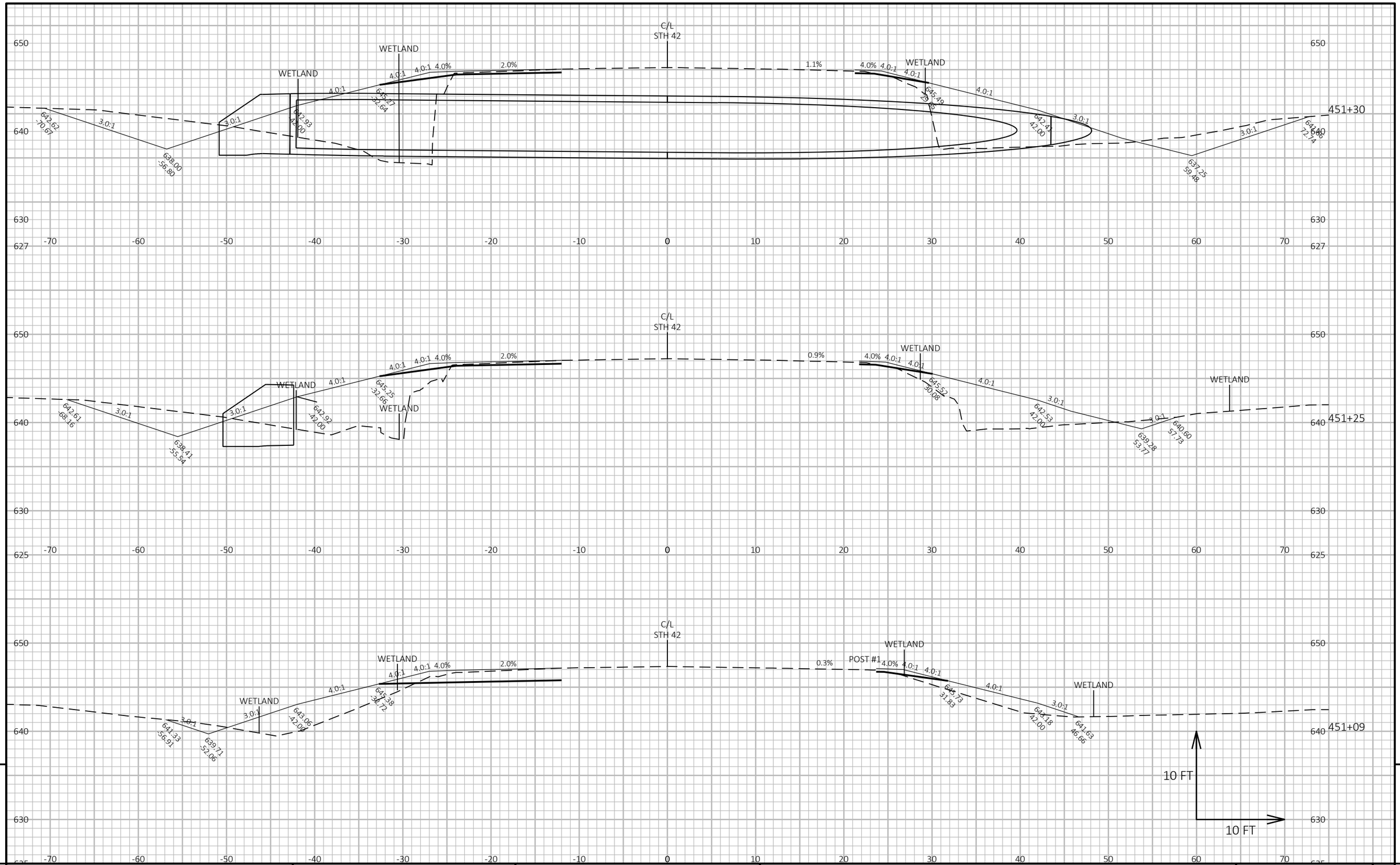
9

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET 198	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 16

PLOT DATE : 7/26/2022 11:18 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



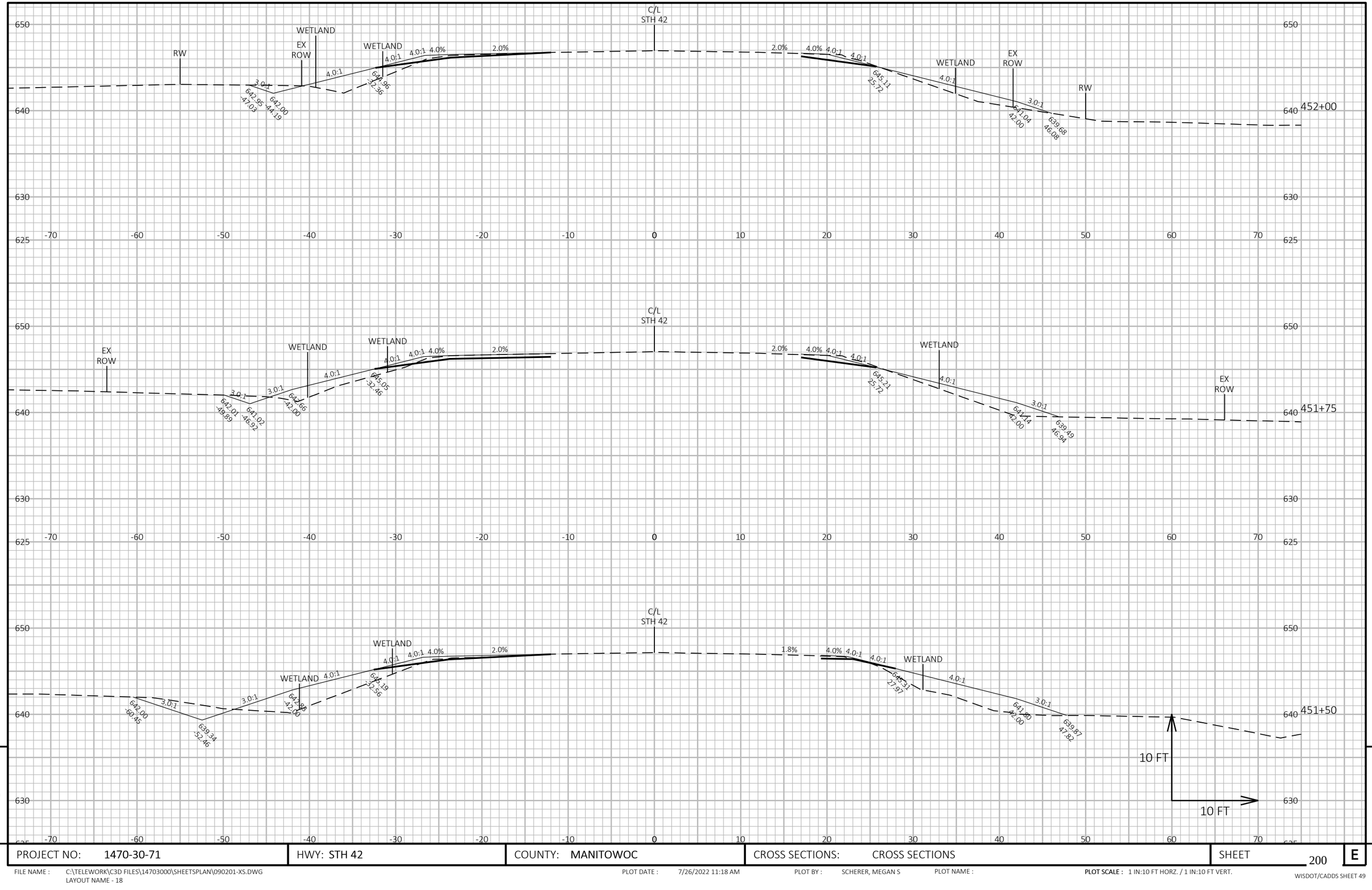
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9

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET 199	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 17

PLOT DATE : 7/26/2022 11:18 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

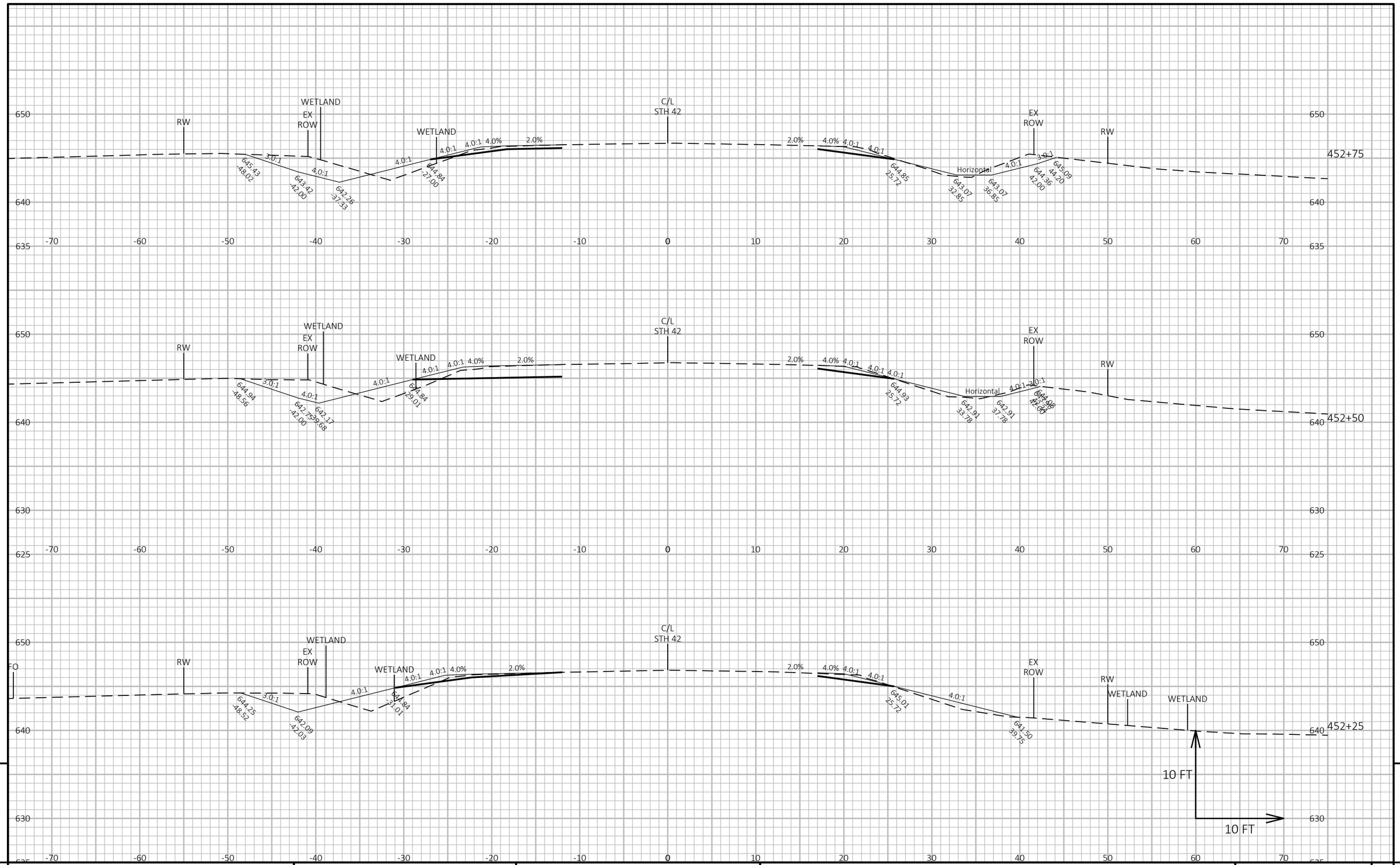
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PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: CROSS SECTIONS	SHEET 200	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 18

PLOT DATE : 7/26/2022 11:18 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

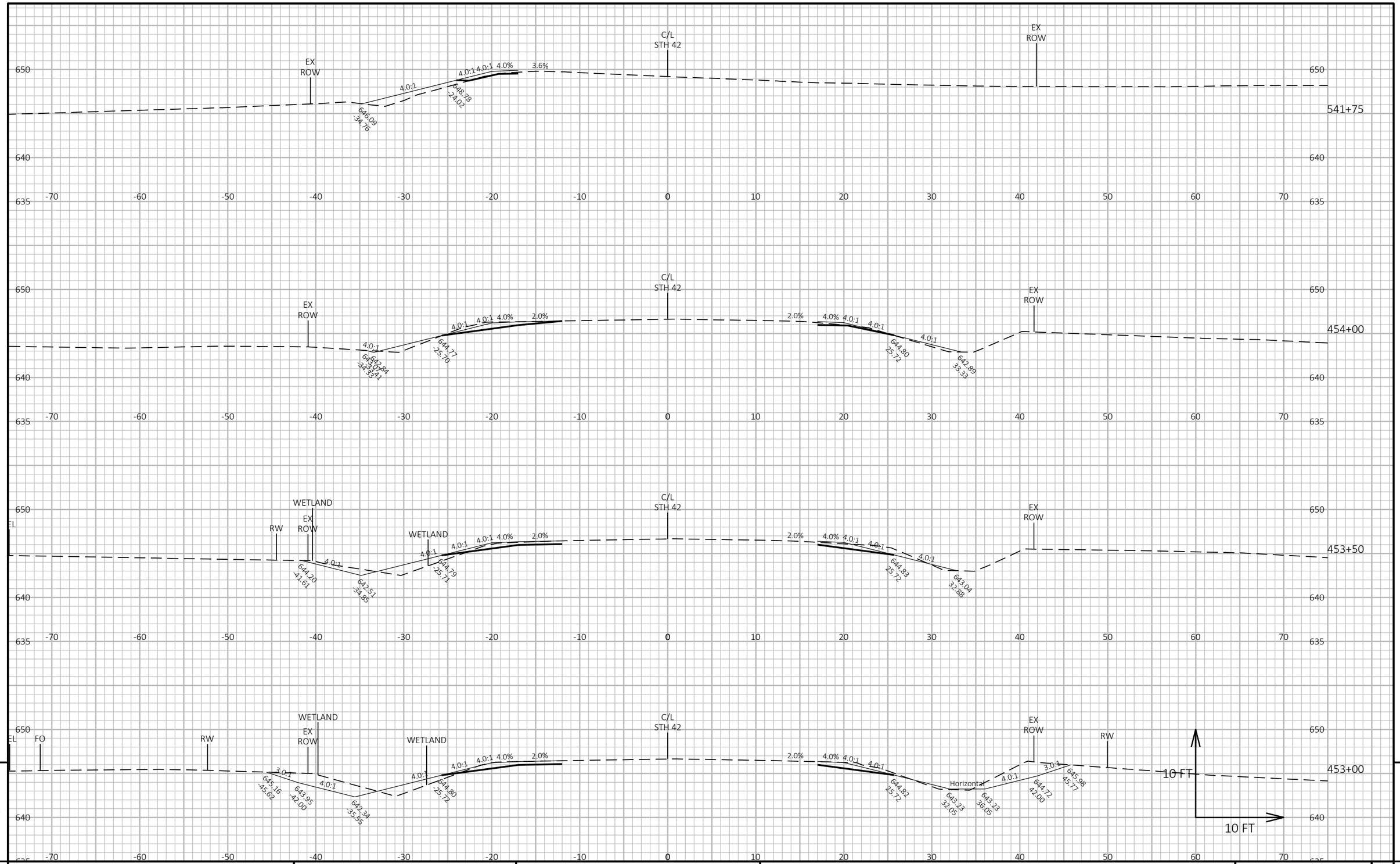
PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: CROSS SECTIONS	SHEET 201	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 19

PLOT DATE : 7/26/2022 11:18 AM PLOT BY : SCHERER, MEGAN S PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

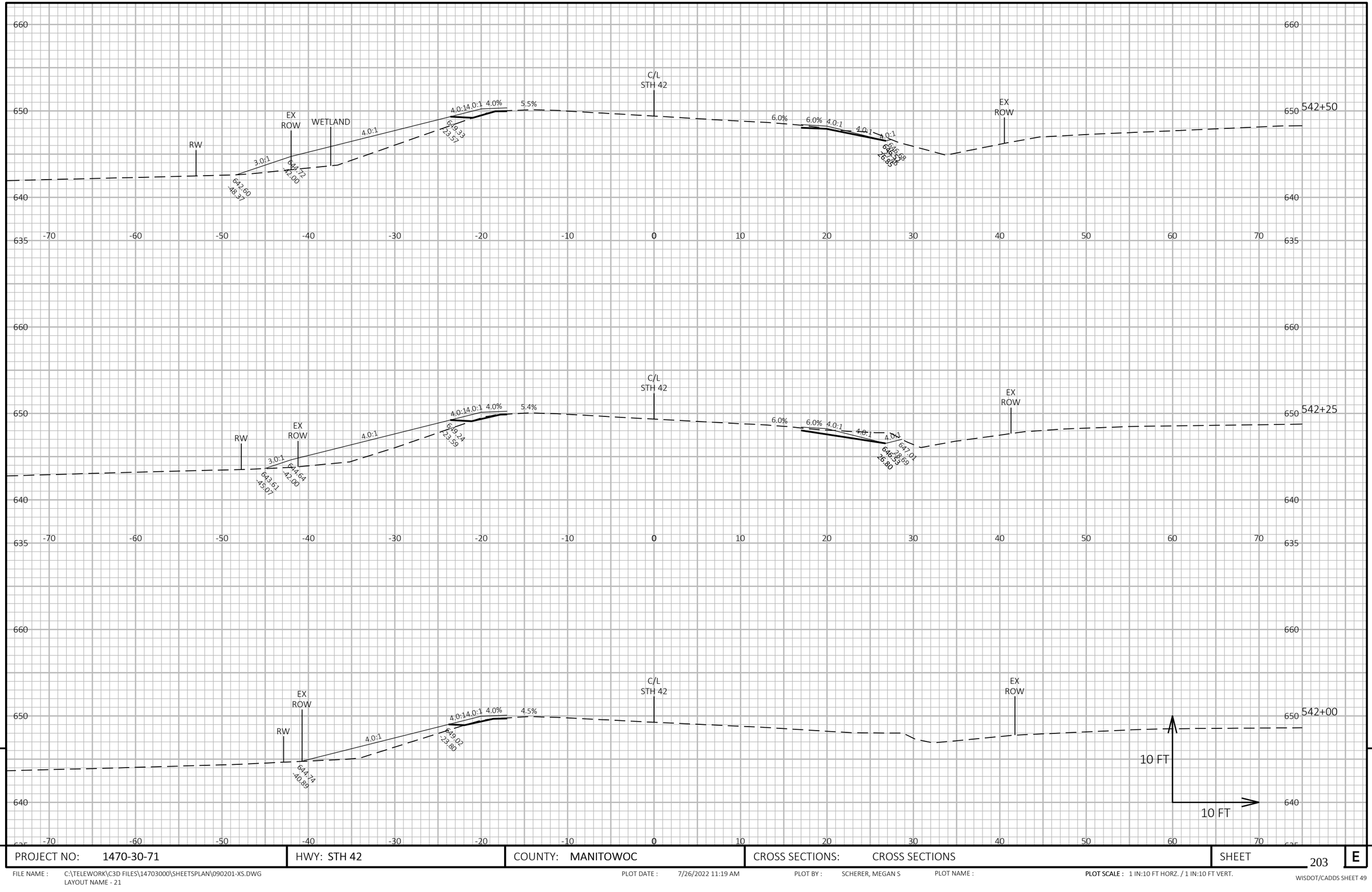
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PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: CROSS SECTIONS	SHEET 202	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 20

PLOT DATE : 7/26/2022 11:18 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

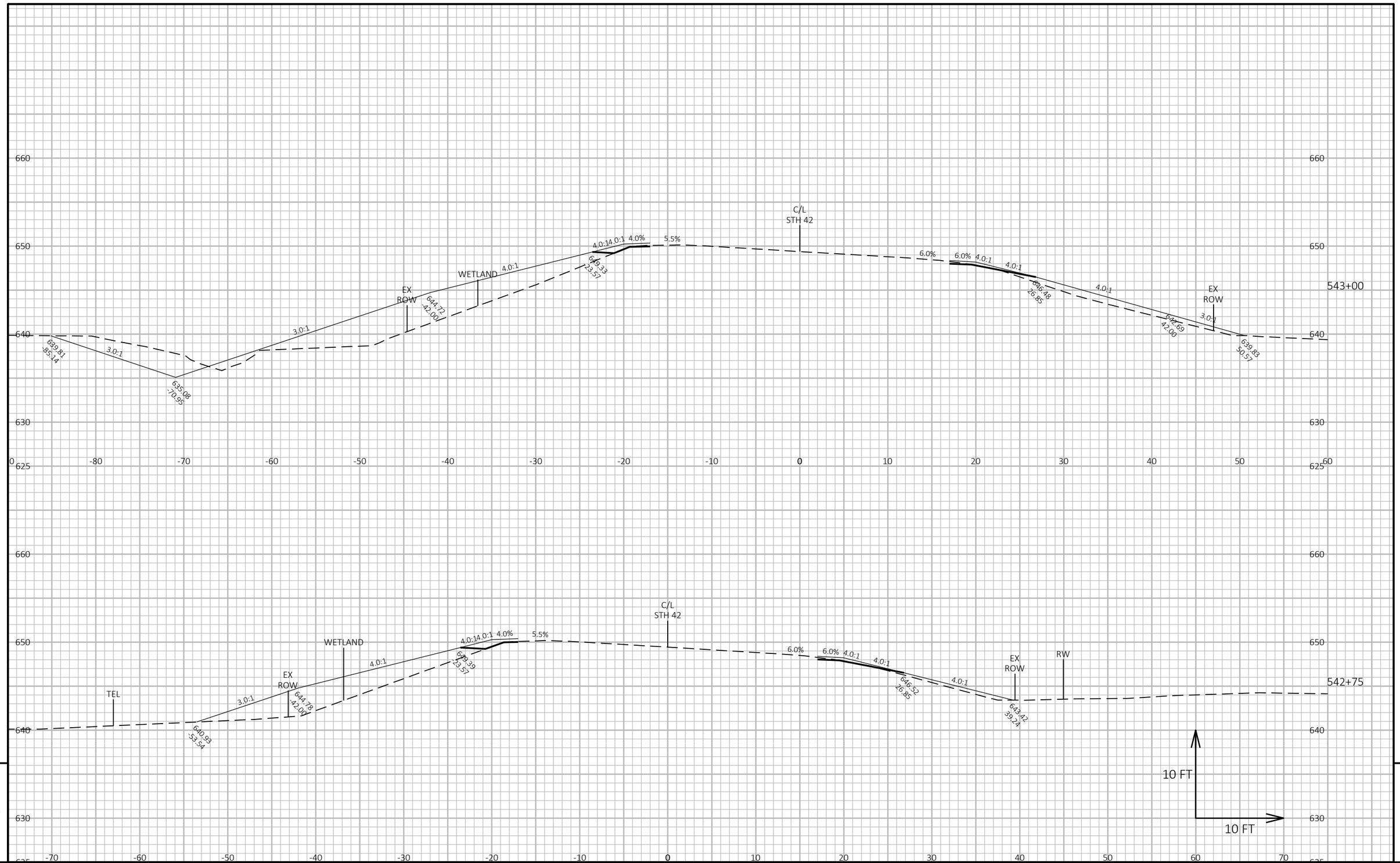
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PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: CROSS SECTIONS	SHEET 203	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 21

PLOT DATE : 7/26/2022 11:19 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

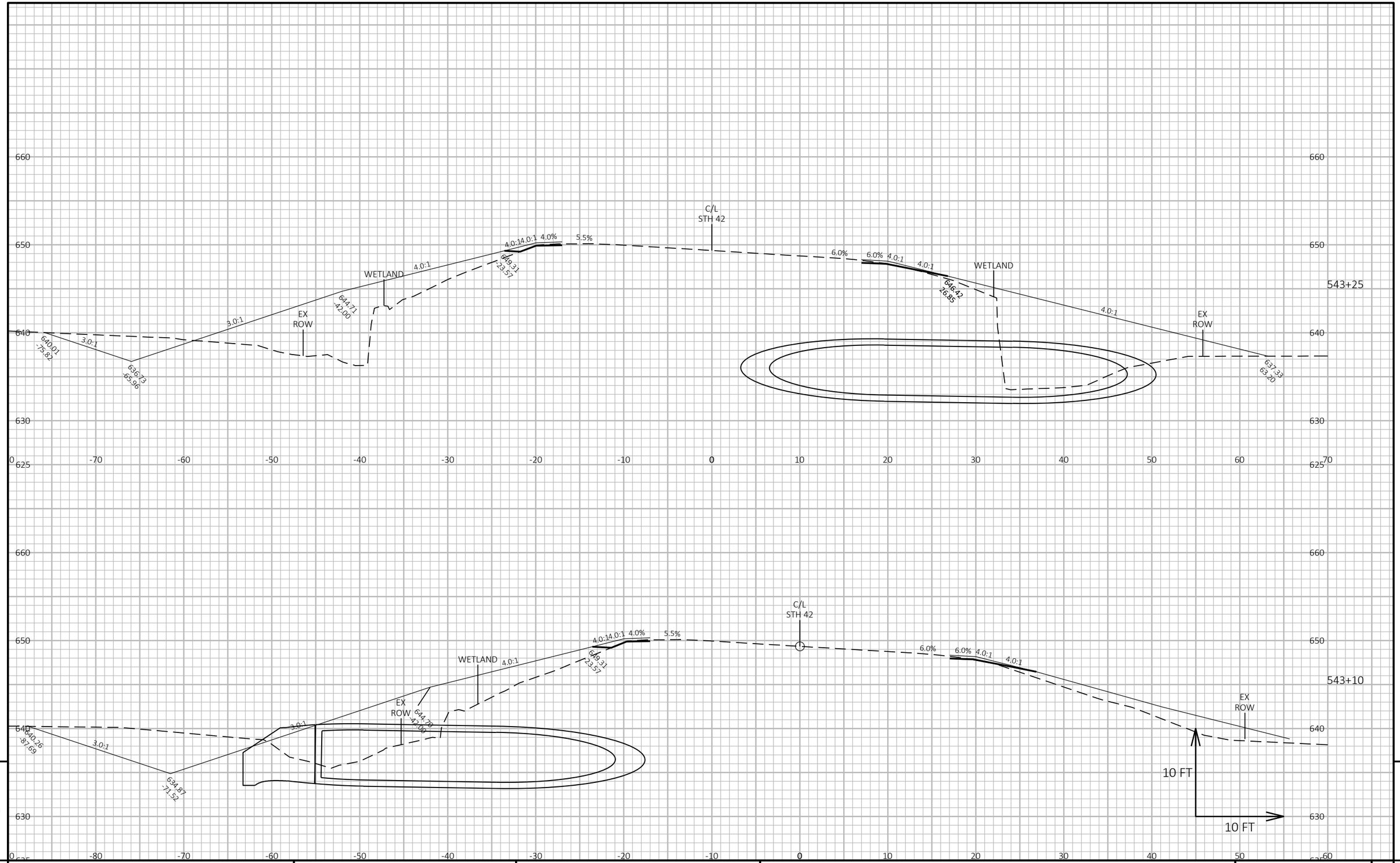
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PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: CROSS SECTIONS	SHEET 204	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 22

PLOT DATE : 7/26/2022 11:19 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

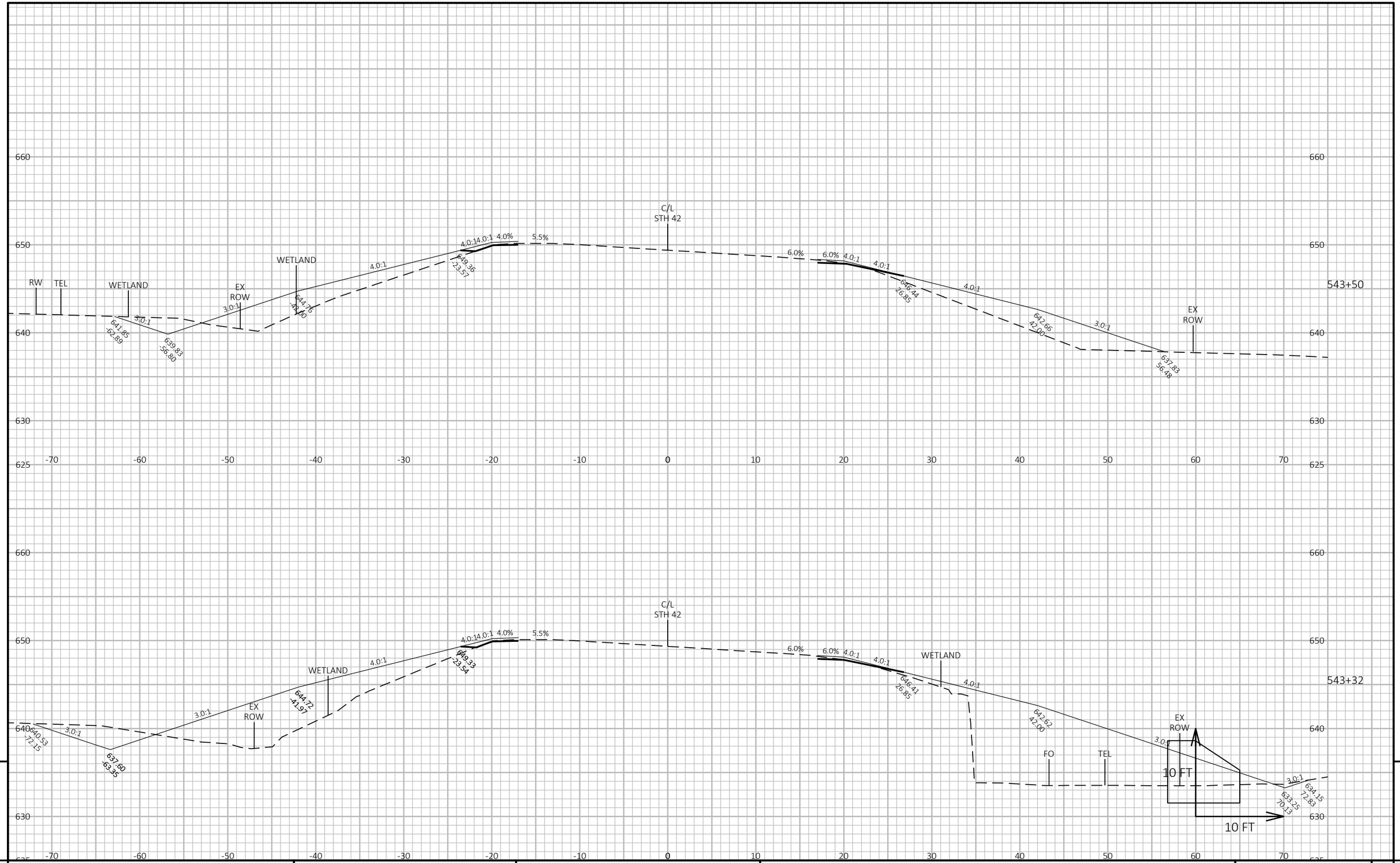
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PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: CROSS SECTIONS	SHEET 205	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 23

PLOT DATE : 7/26/2022 11:19 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

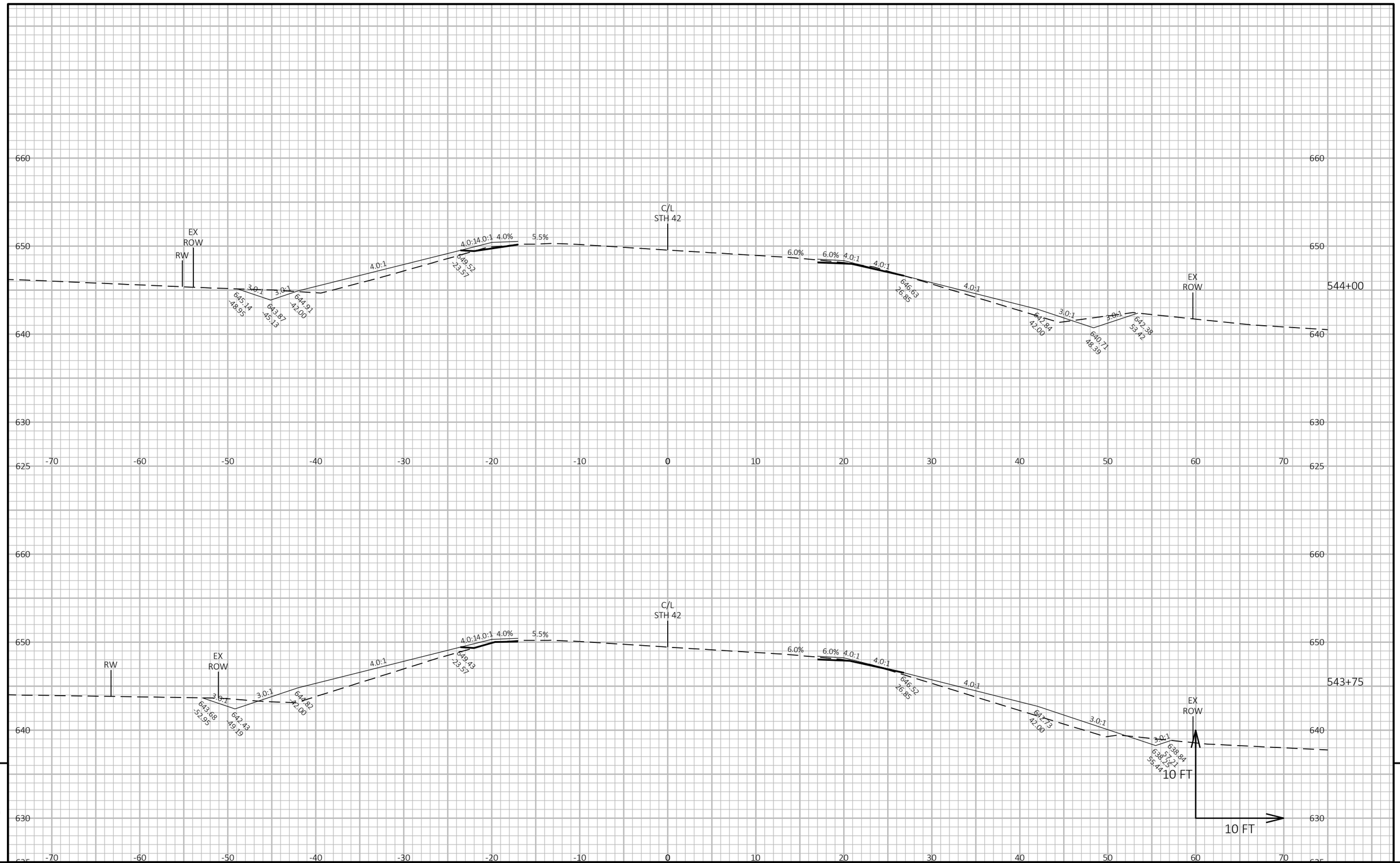
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PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: CROSS SECTIONS	SHEET 206	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 24

PLOT DATE : 7/26/2022 11:19 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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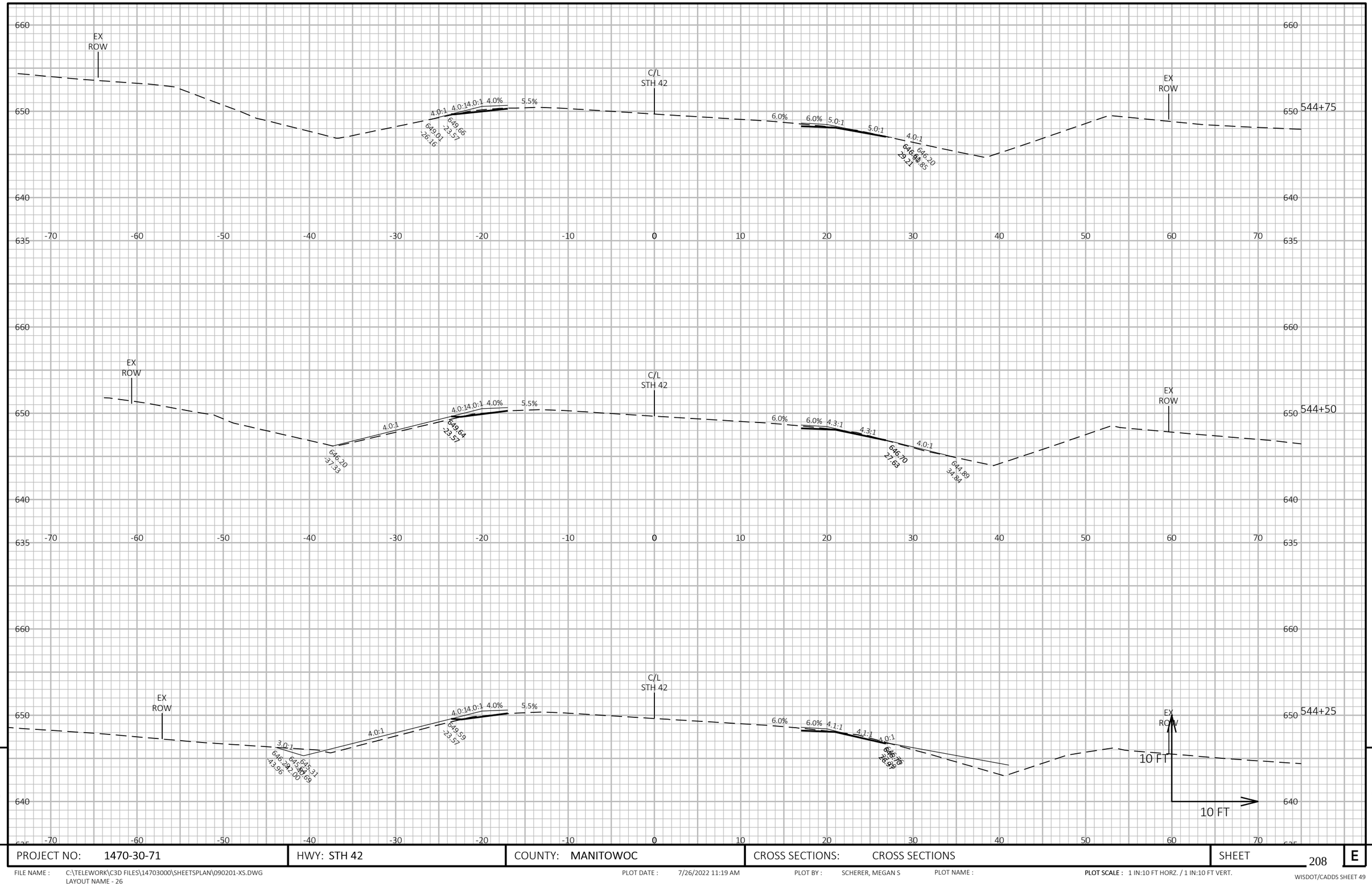
PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET 207	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 25

PLOT DATE : 7/26/2022 11:19 AM PLOT BY : SCHERER, MEGAN S PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

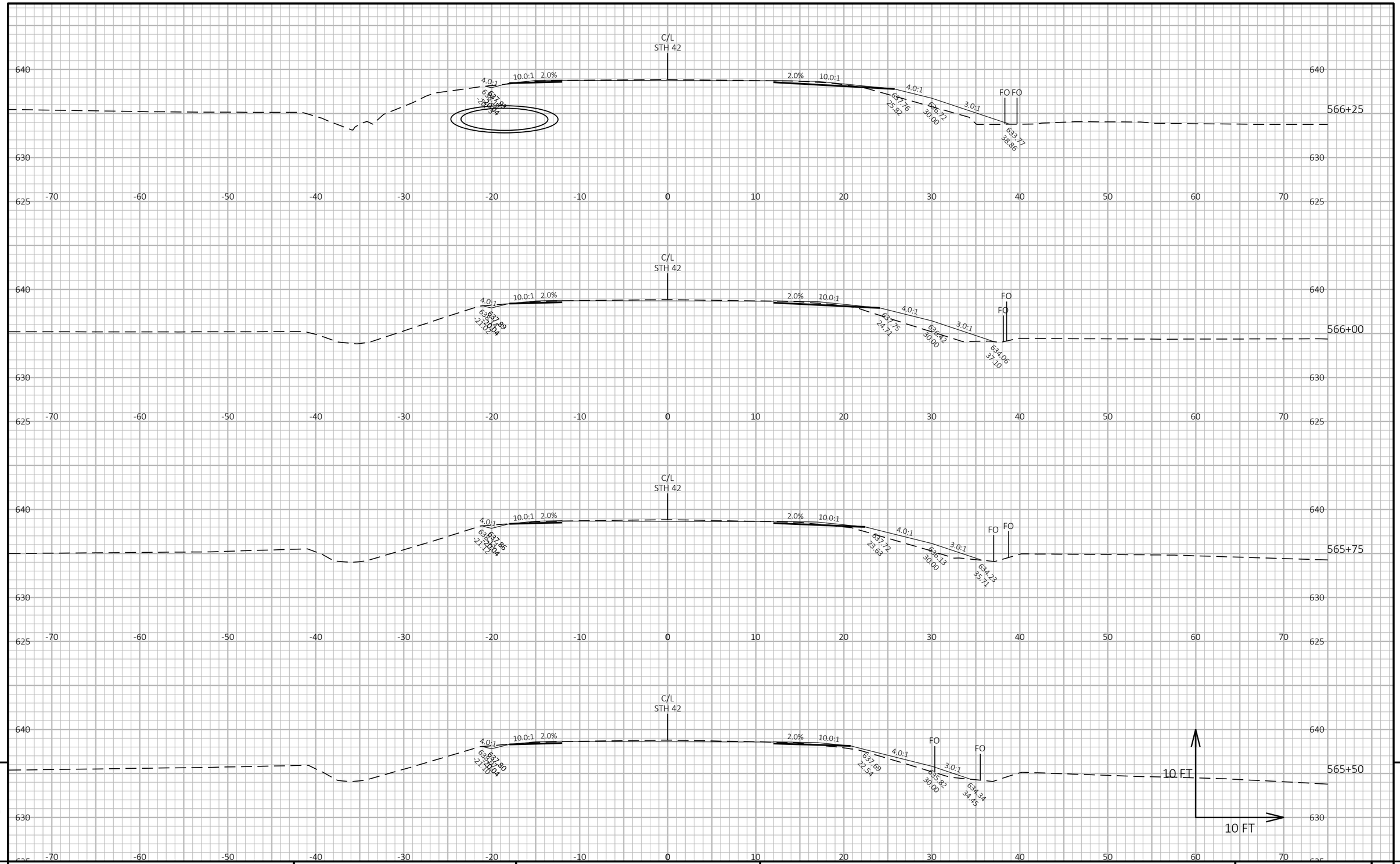
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PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: CROSS SECTIONS	SHEET 208	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 26

PLOT DATE : 7/26/2022 11:19 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

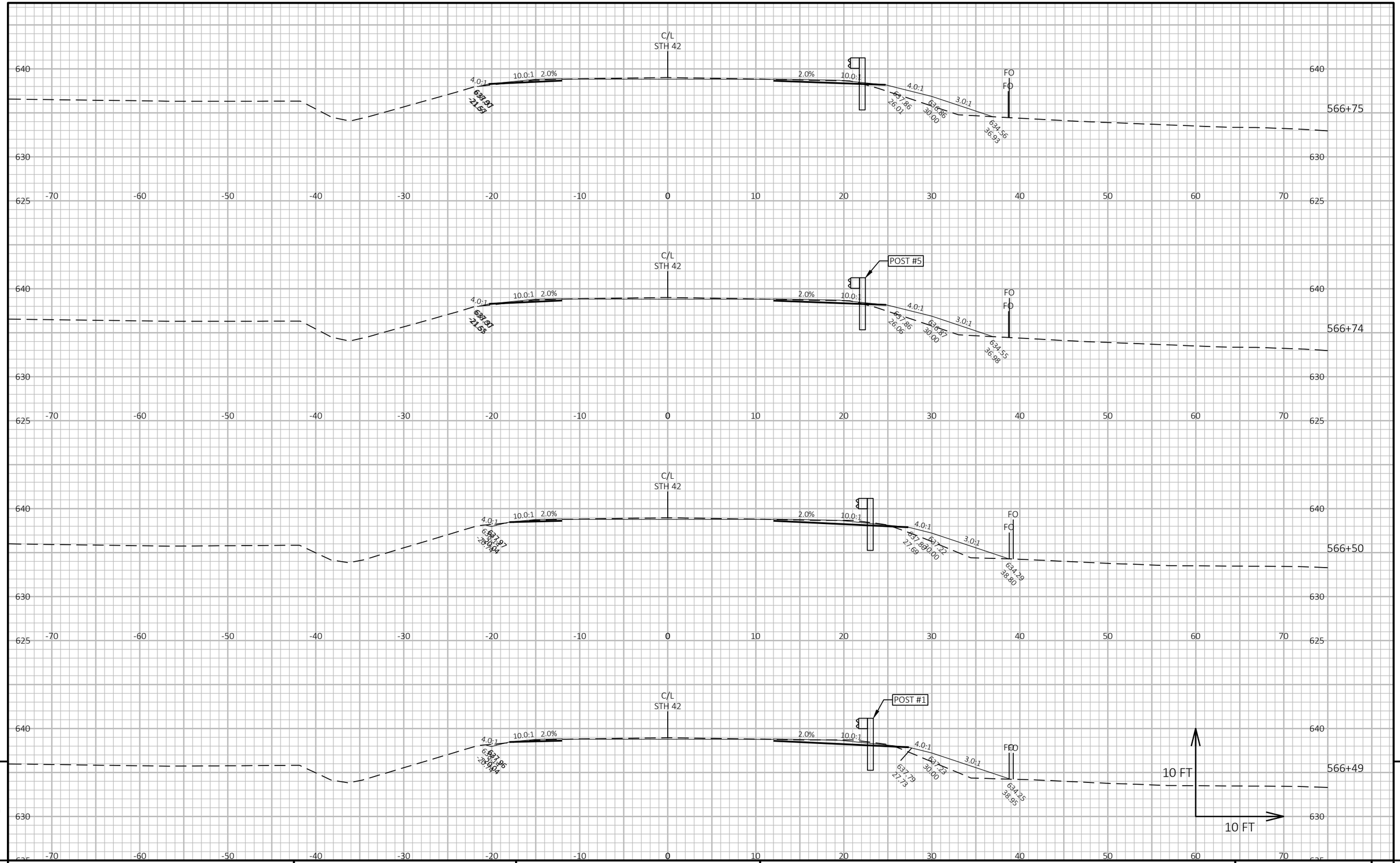
PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: CROSS SECTIONS	SHEET 209	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 27

PLOT DATE : 7/26/2022 11:19 AM PLOT BY : SCHERER, MEGAN S PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

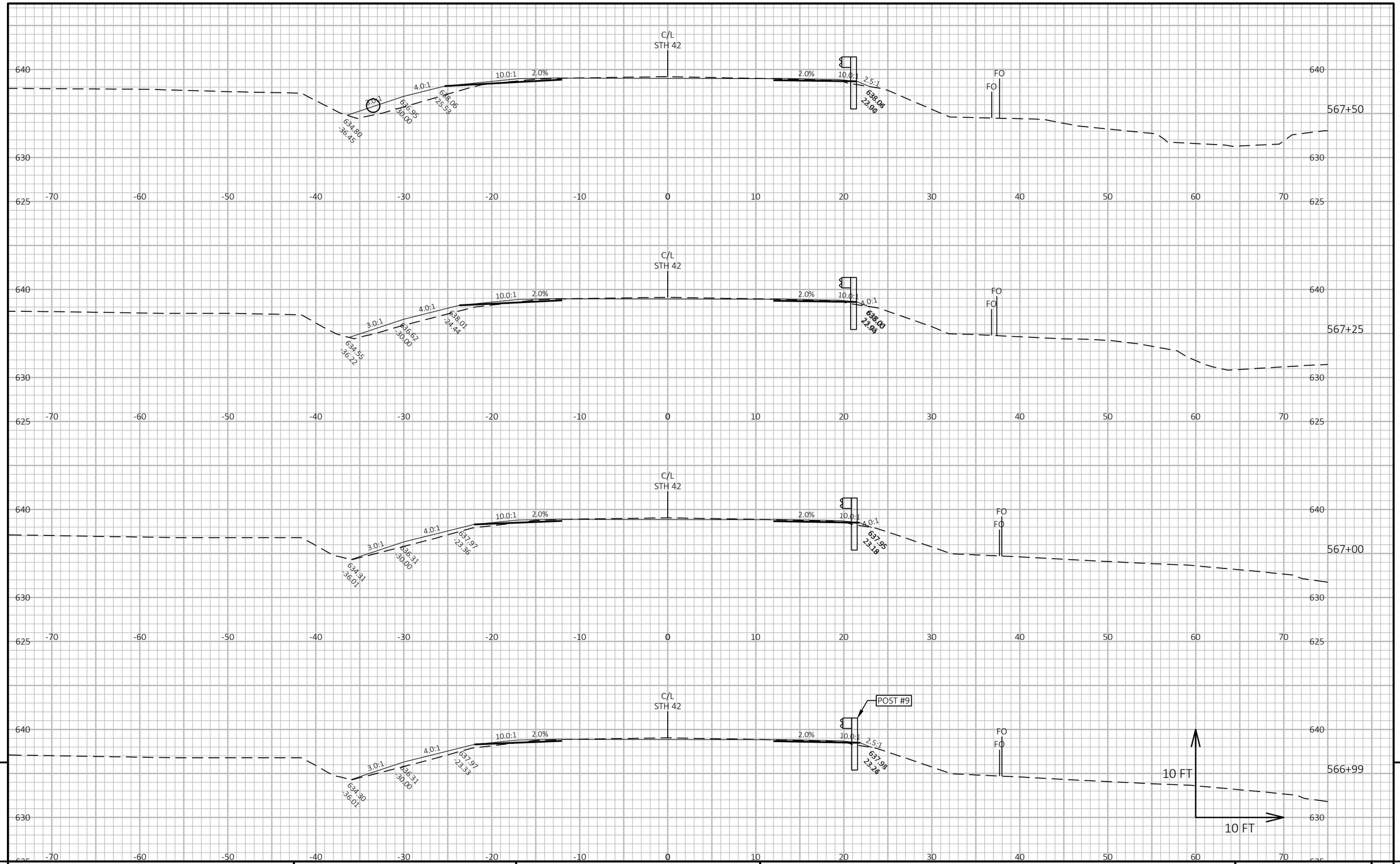


PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: CROSS SECTIONS	SHEET 210 E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 28

PLOT DATE : 7/26/2022 11:19 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

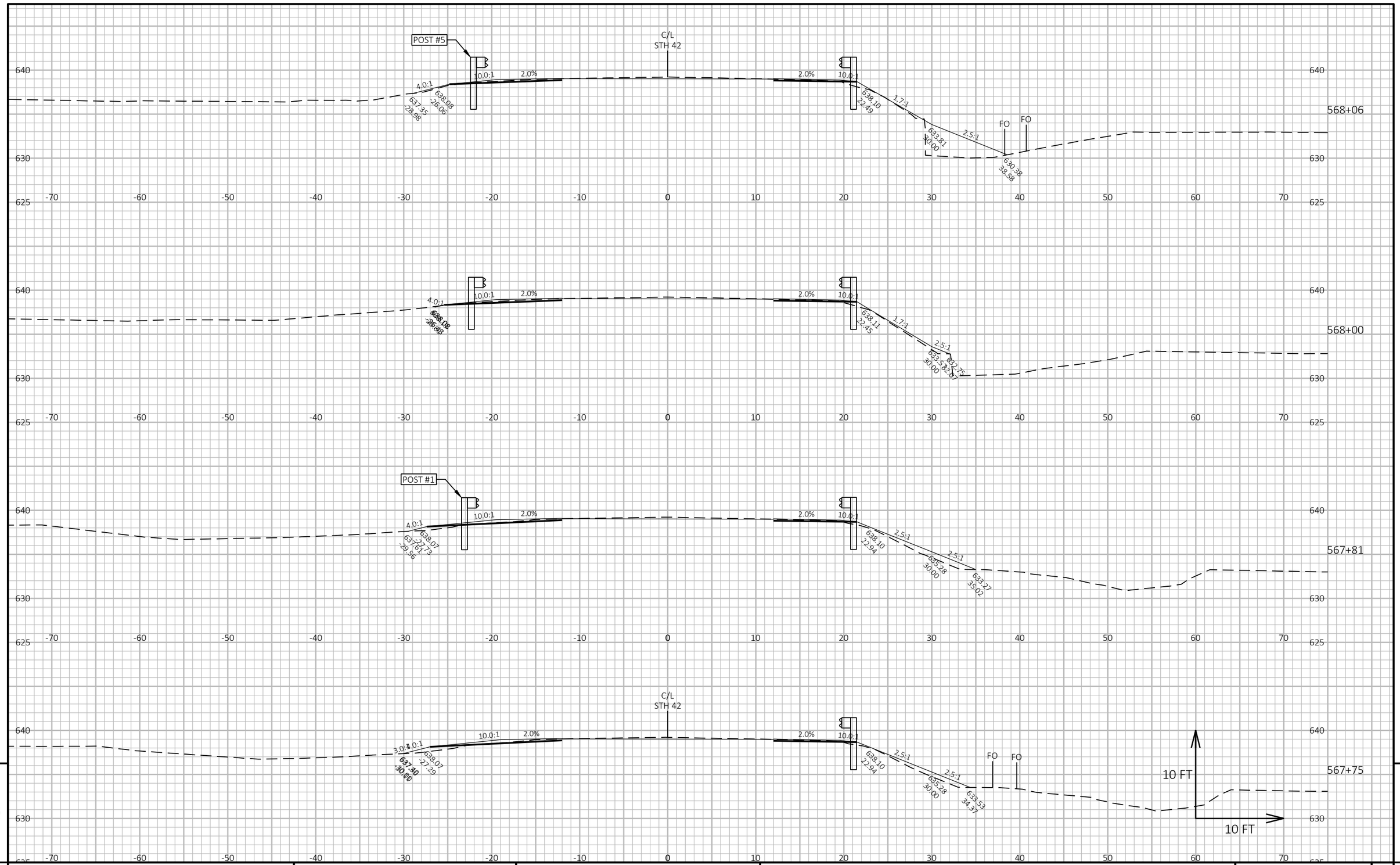
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PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: CROSS SECTIONS	SHEET 211	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 29

PLOT DATE : 7/26/2022 11:19 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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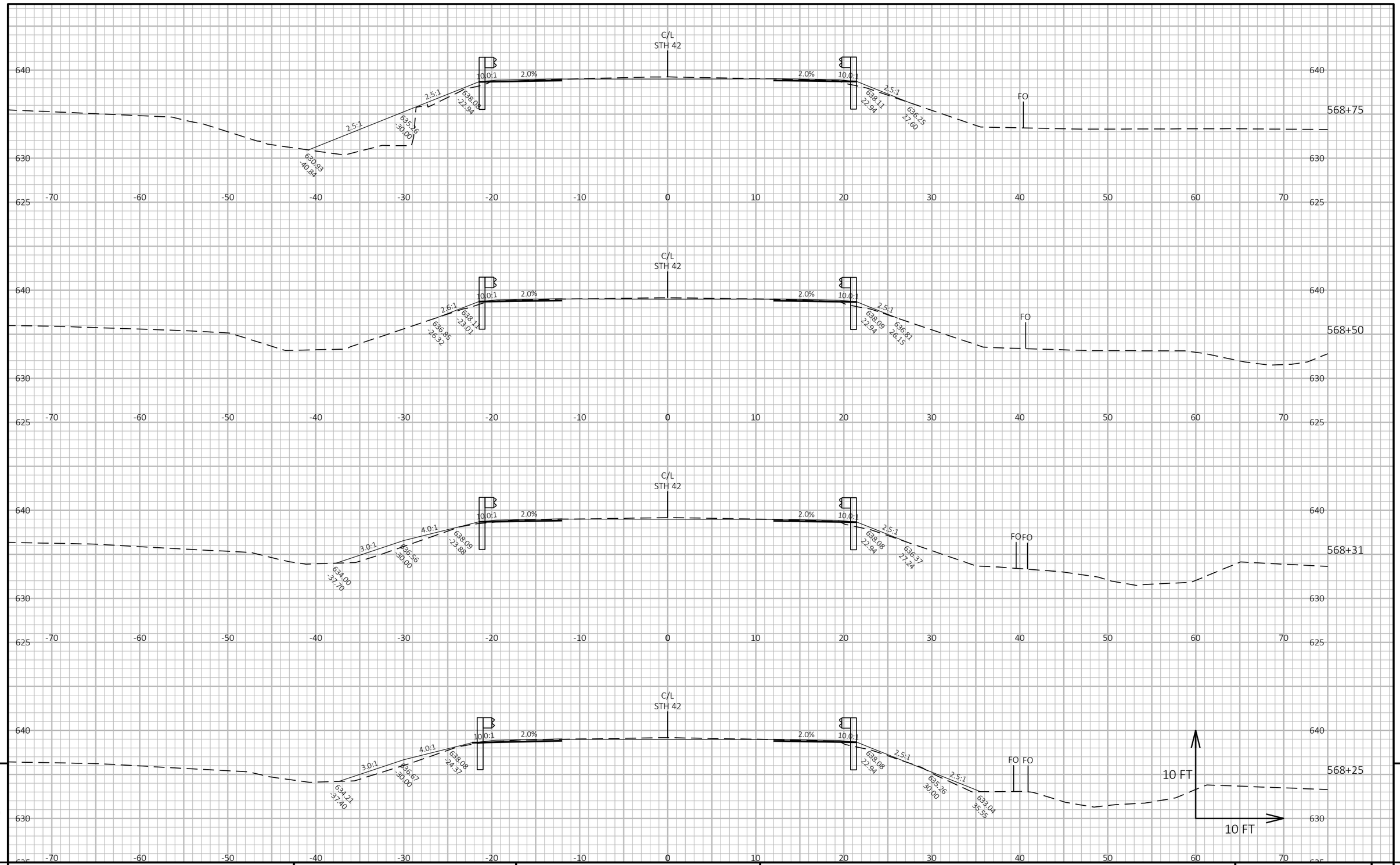
PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: CROSS SECTIONS	SHEET 212	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 30

PLOT DATE : 7/26/2022 11:19 AM PLOT BY : SCHERER, MEGAN S PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

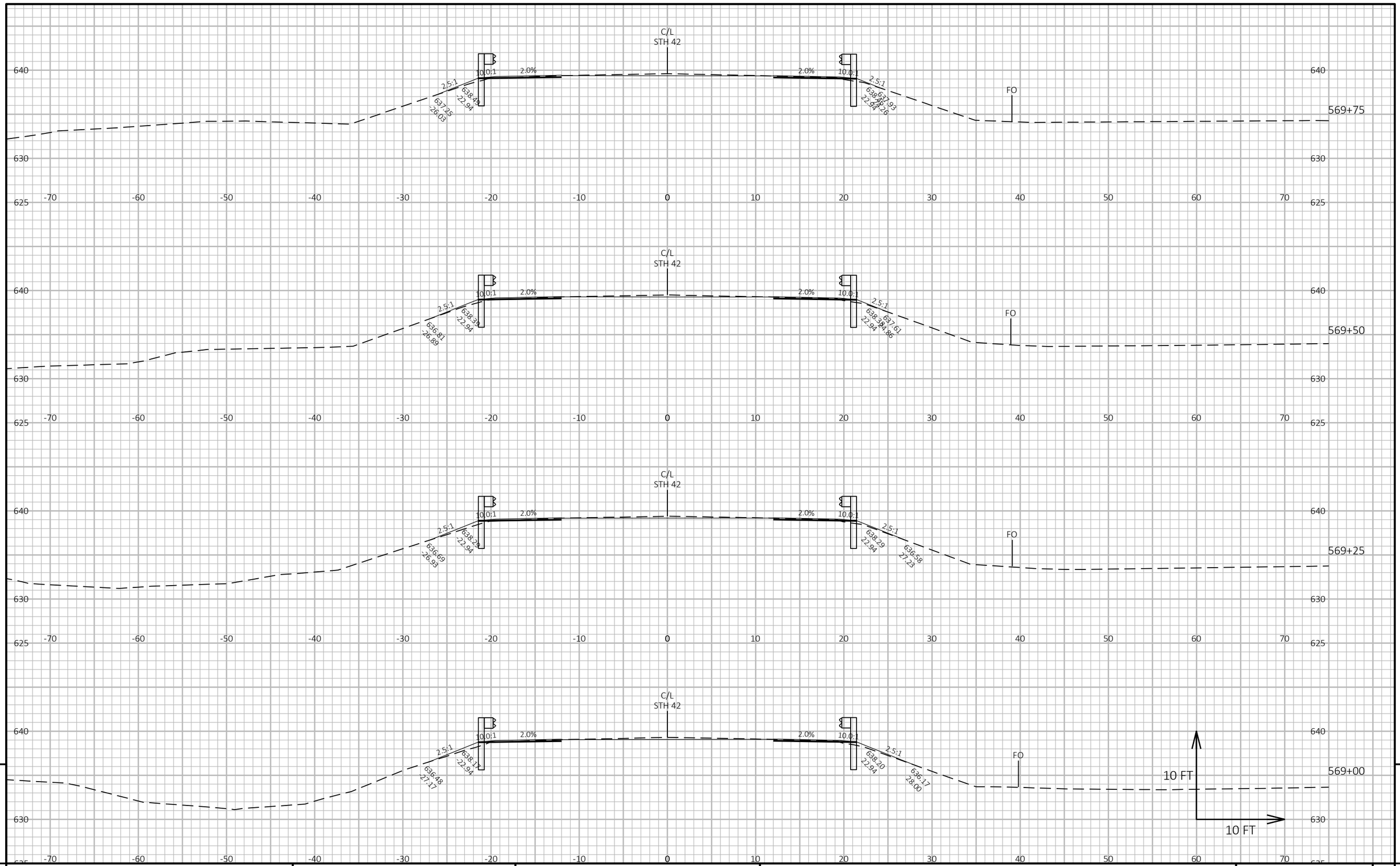
PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: CROSS SECTIONS	SHEET 213	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 31

PLOT DATE : 7/26/2022 11:19 AM PLOT BY : SCHERER, MEGAN S PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

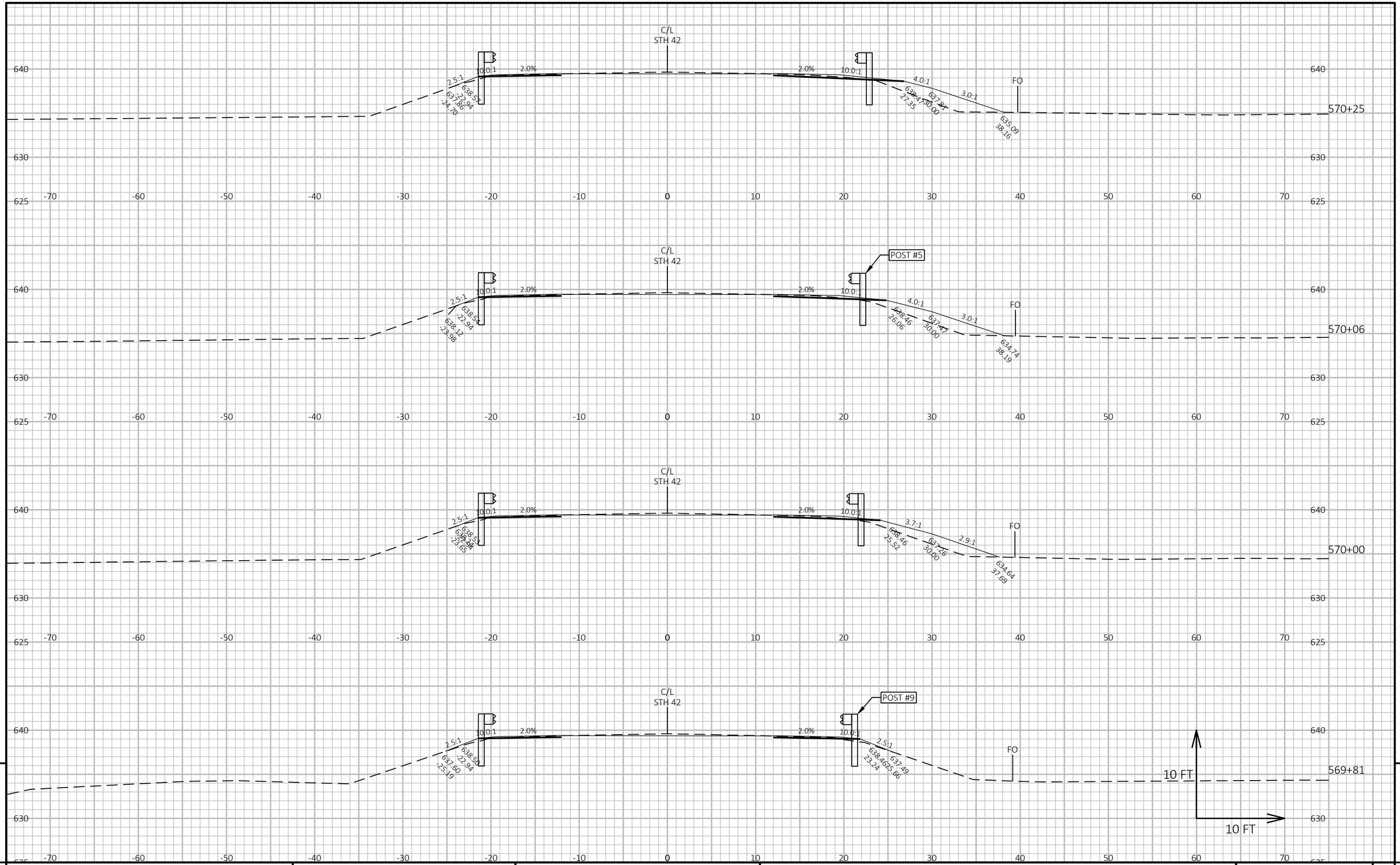
PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: CROSS SECTIONS	SHEET 214	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 32

PLOT DATE : 7/26/2022 11:19 AM PLOT BY : SCHERER, MEGAN S PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

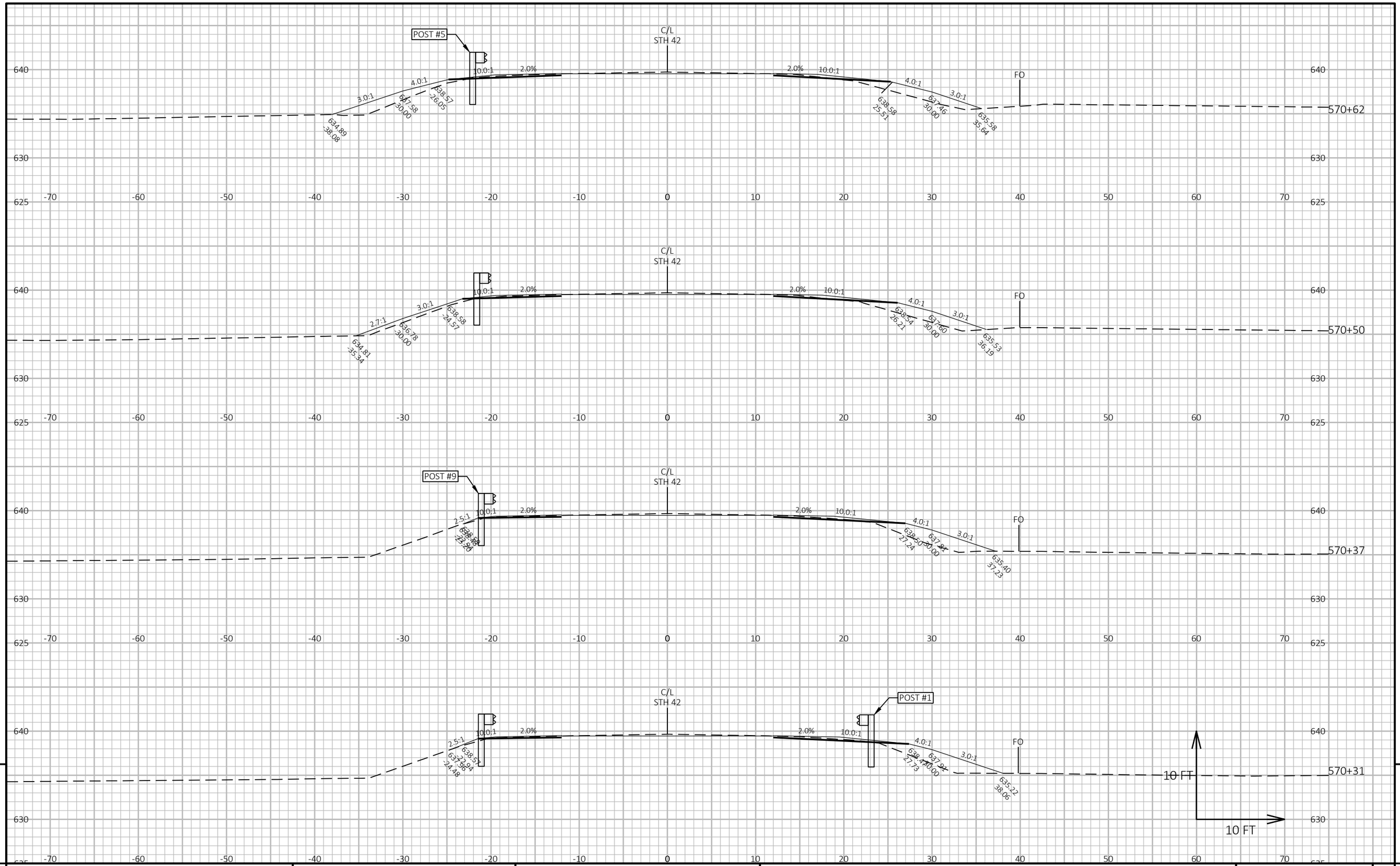
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PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: CROSS SECTIONS	SHEET 215	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 33

PLOT DATE : 7/26/2022 11:19 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

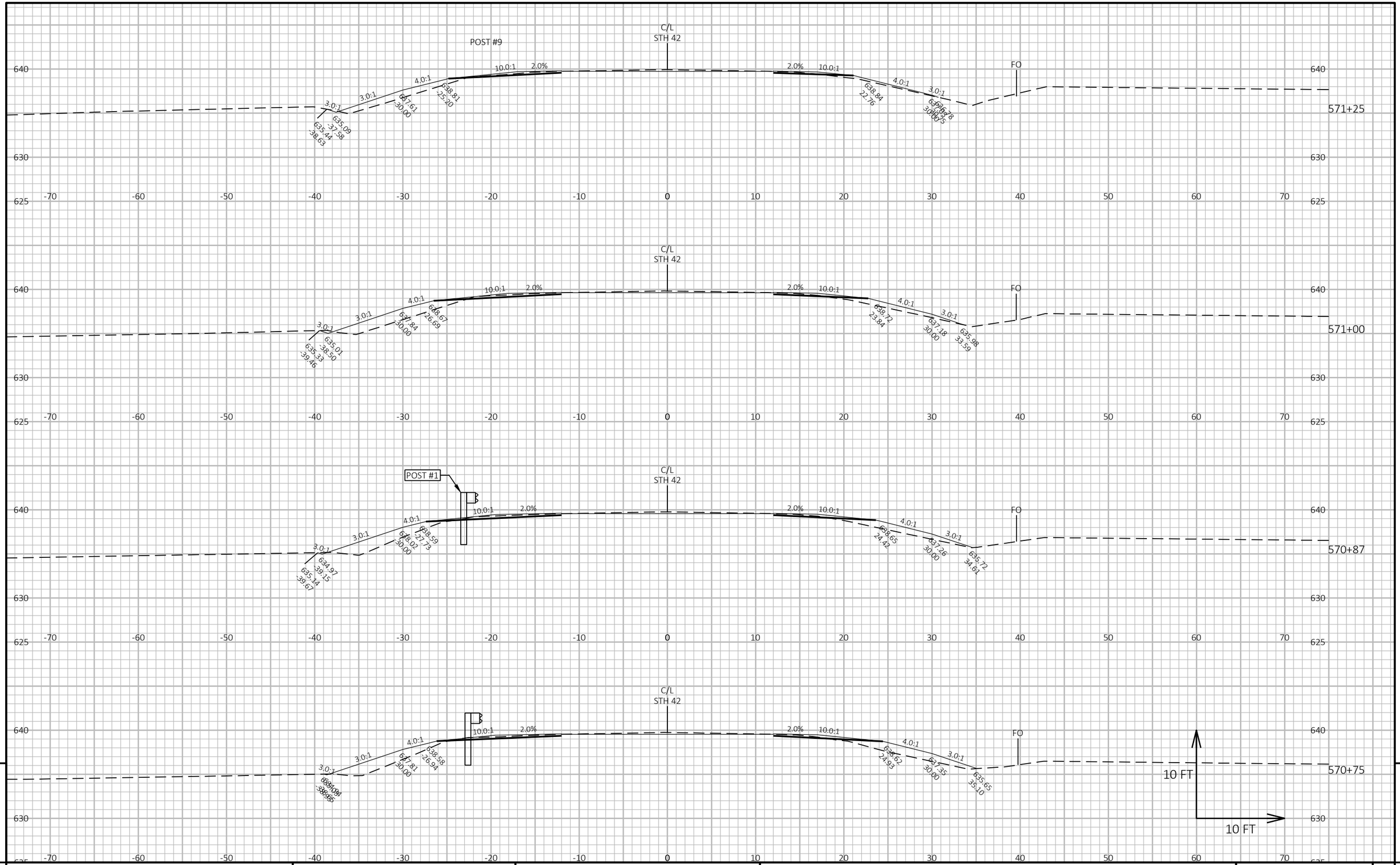
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PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: CROSS SECTIONS	SHEET 216	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 34

PLOT DATE : 7/26/2022 11:19 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

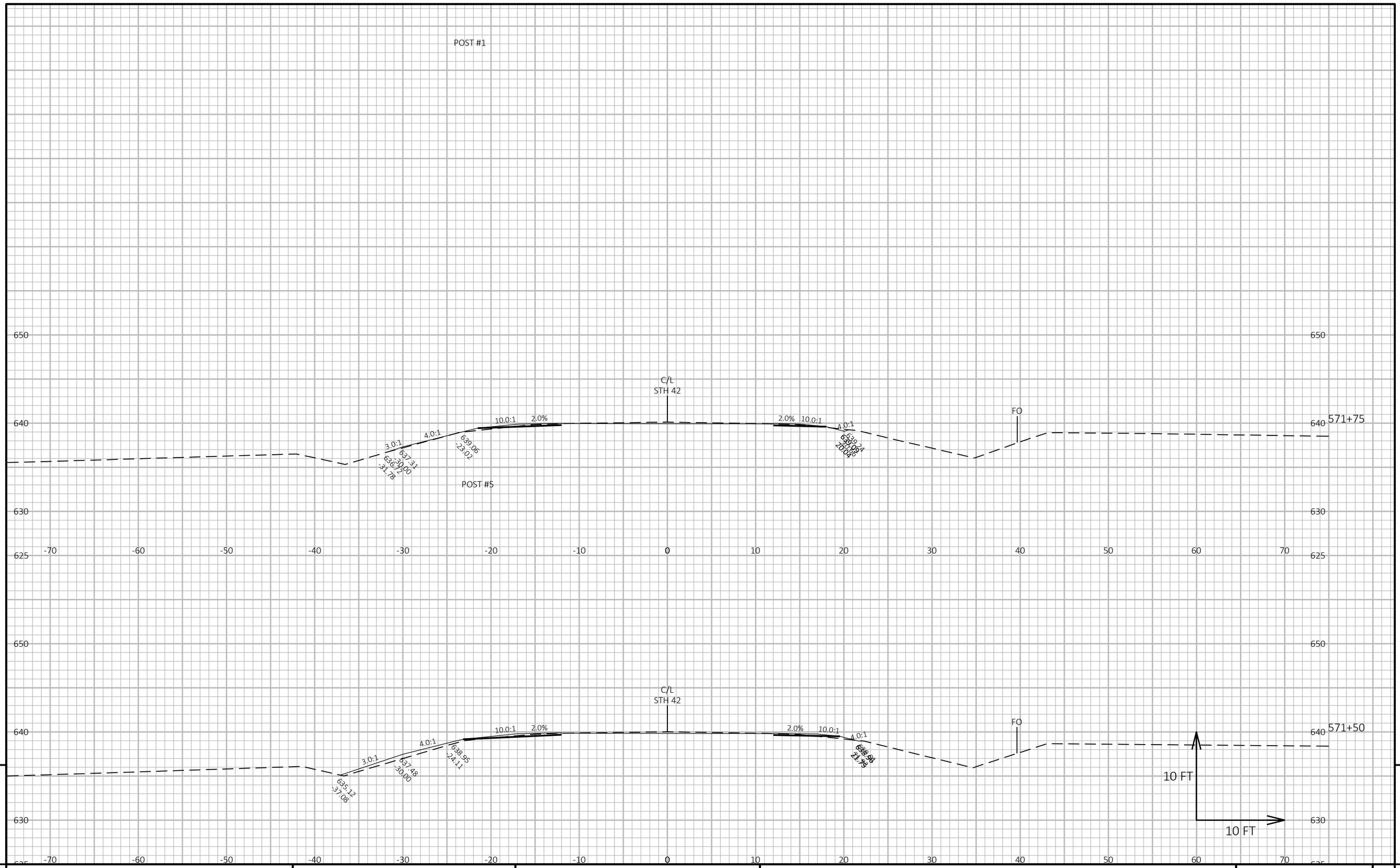


PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: CROSS SECTIONS	SHEET 217 E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 35

PLOT DATE : 7/26/2022 11:20 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

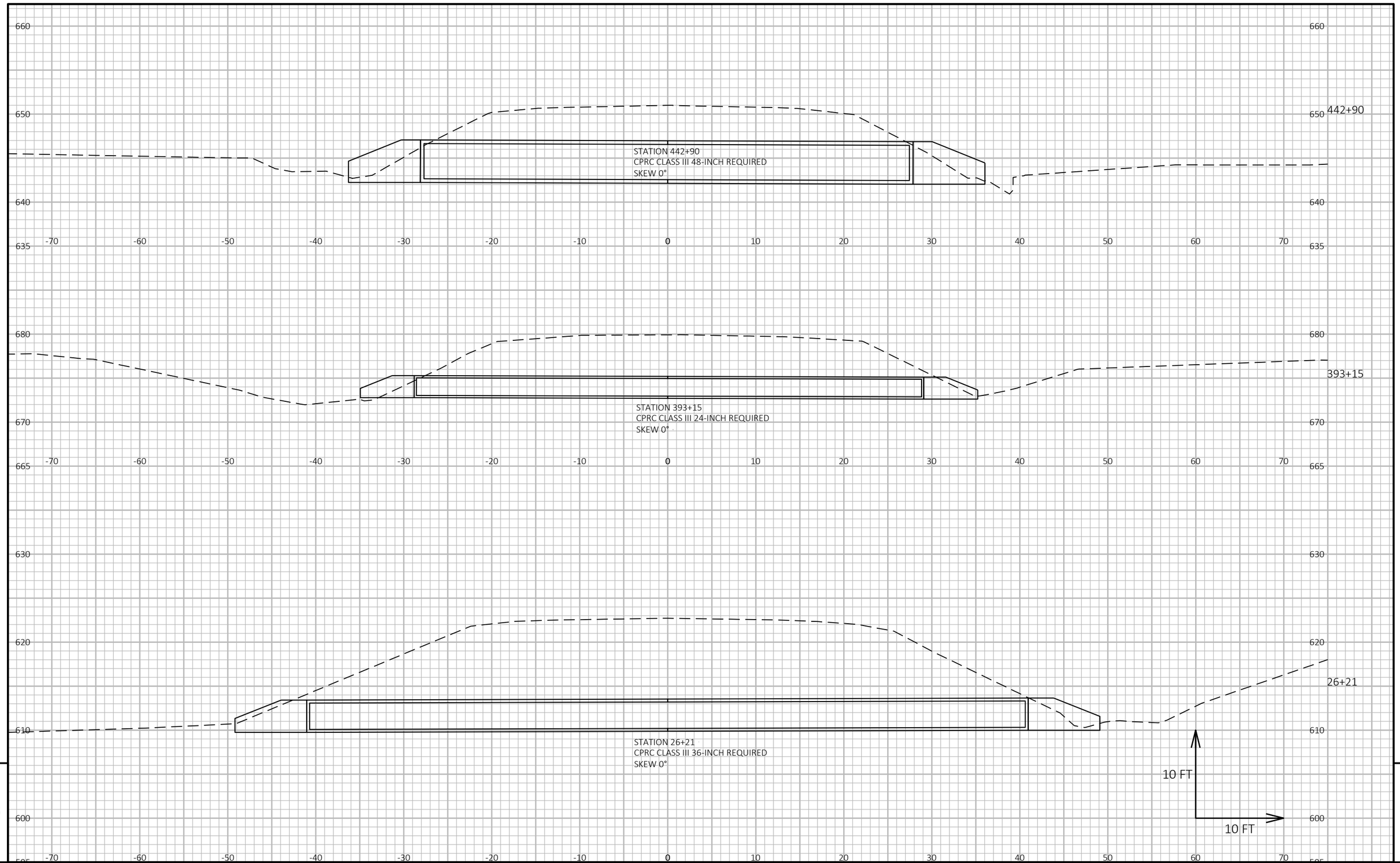
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PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: CROSS SECTIONS	SHEET 218	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 36

PLOT DATE : 7/26/2022 11:20 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

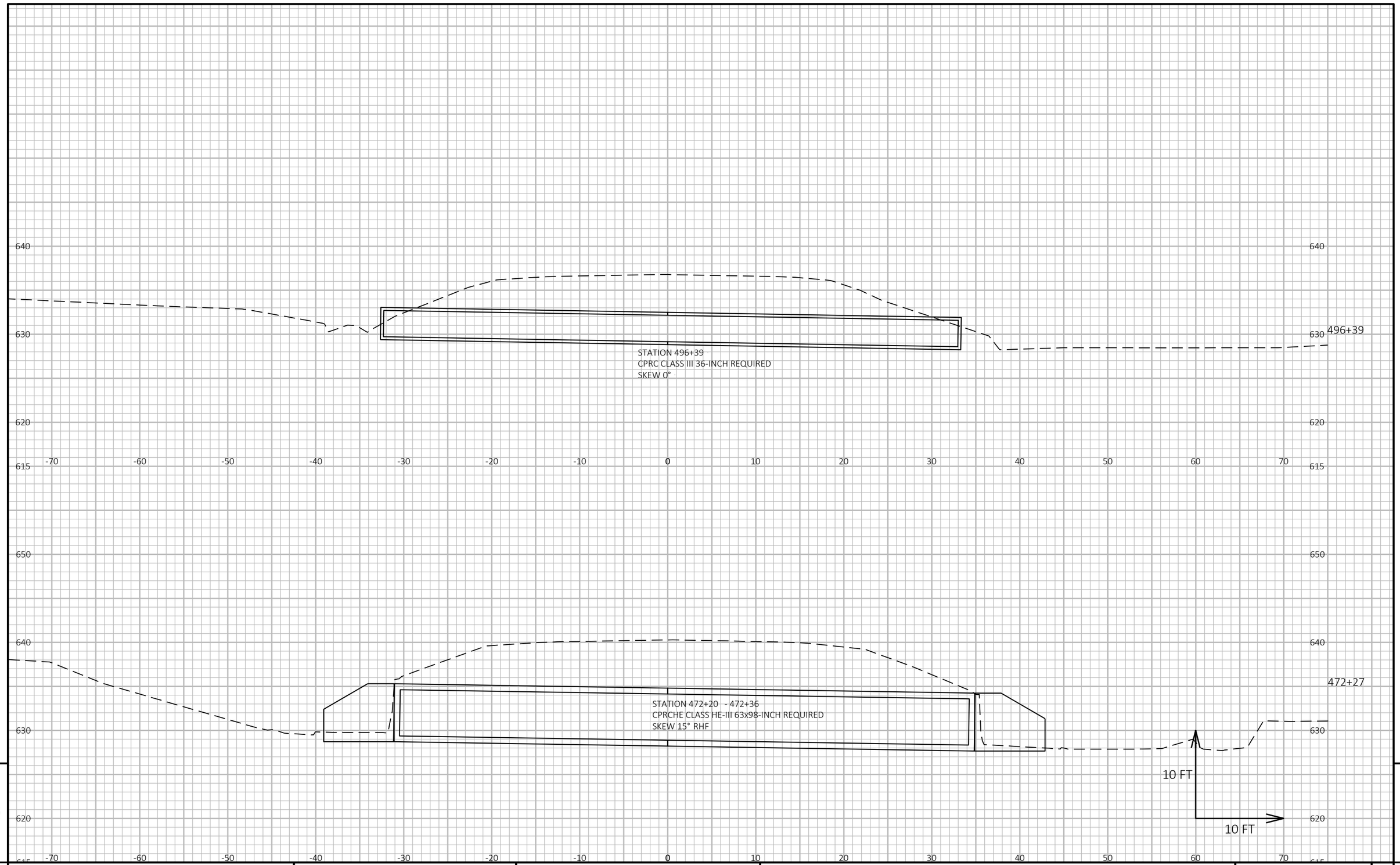
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PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: CROSS SECTIONS CULVERTS	SHEET 219	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\090201-XS-PIPE.DWG
LAYOUT NAME - 01

PLOT DATE : 6/8/2022 6:31 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

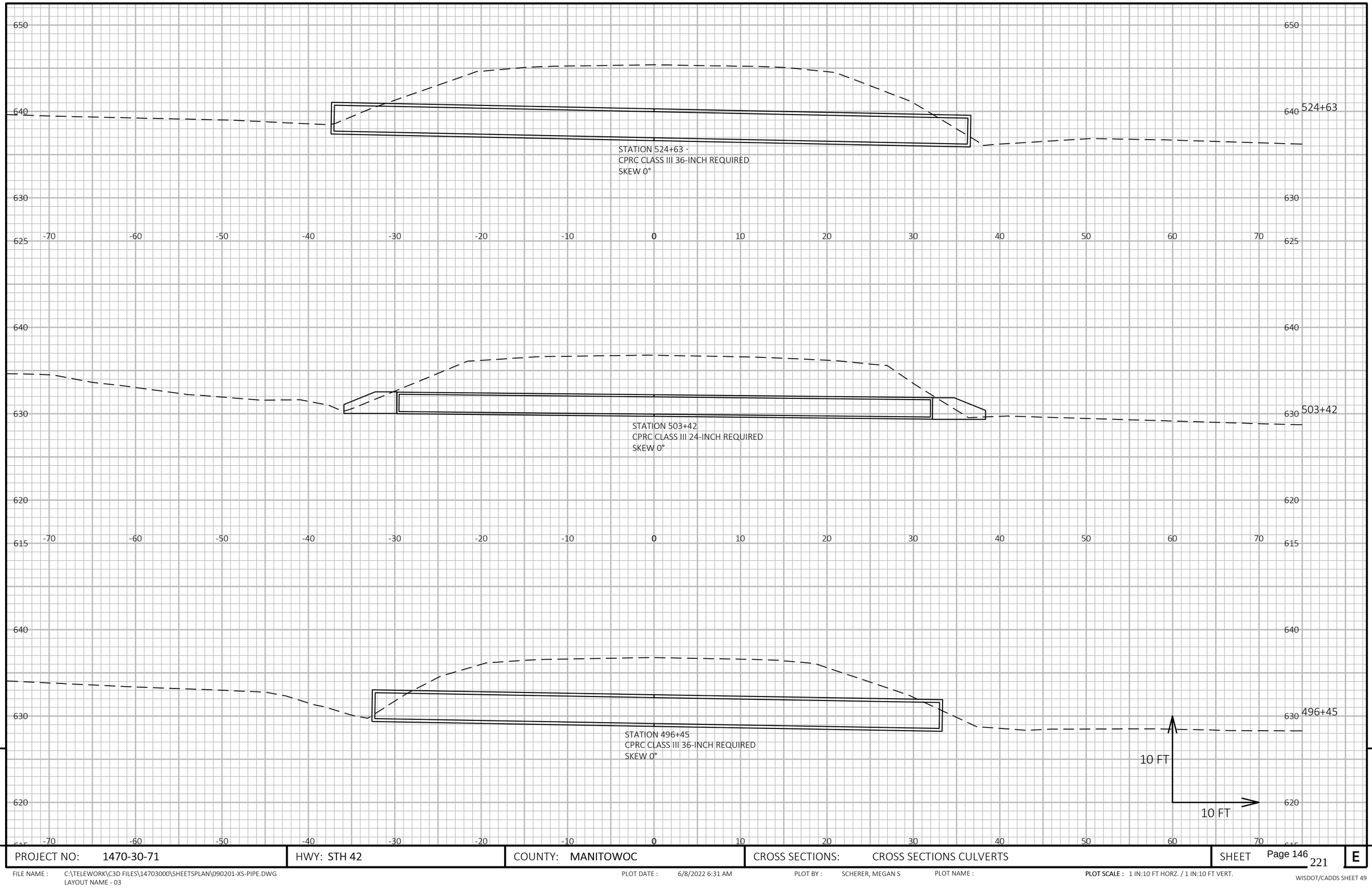
PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: CROSS SECTIONS CULVERTS	SHEET 220	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\090201-XS-PIPE.DWG
LAYOUT NAME - 02

PLOT DATE : 6/8/2022 6:31 AM PLOT BY : SCHERER, MEGAN S PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

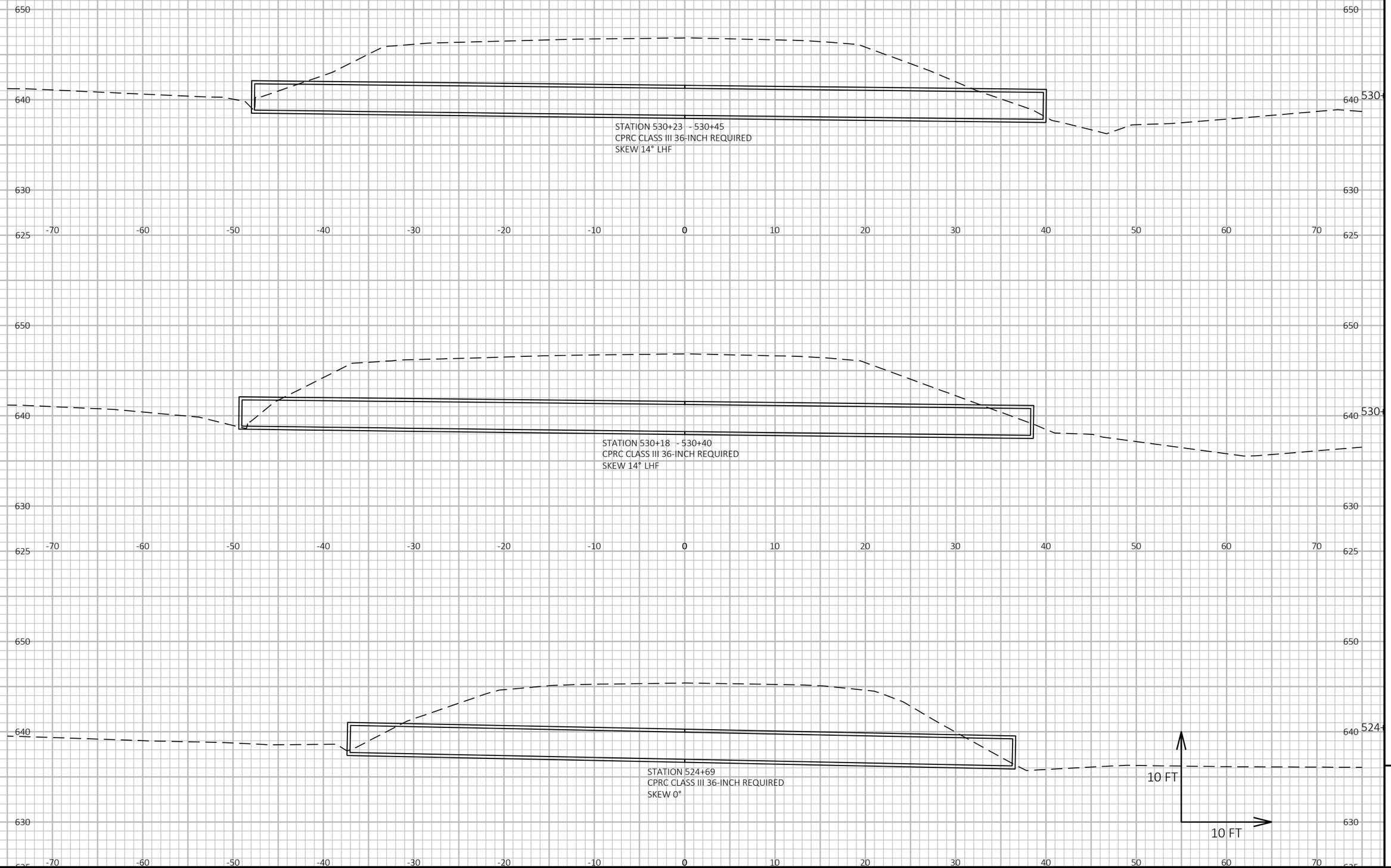
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PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: CROSS SECTIONS CULVERTS	SHEET Page 146 221	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\090201-XS-PIPE.DWG
LAYOUT NAME - 03

PLOT DATE : 6/8/2022 6:31 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

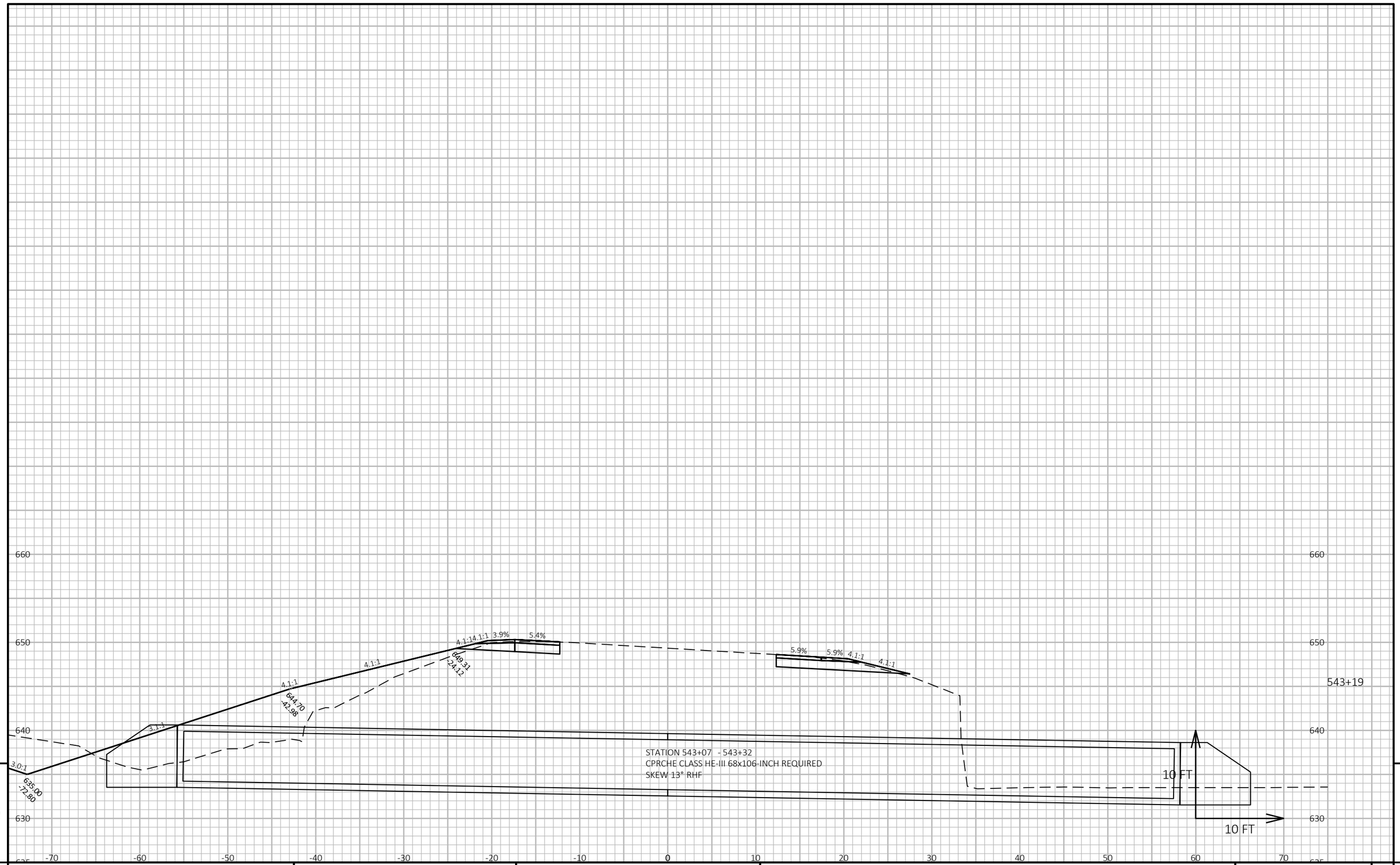
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PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: CROSS SECTIONS CULVERTS	SHEET Page 147 222	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\090201-XS-PIPE.DWG
LAYOUT NAME - 04

PLOT DATE : 6/8/2022 6:31 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9 9

PROJECT NO: 1470-30-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: CROSS SECTIONS CULVERTS	SHEET 223	E

FILE NAME : C:\TELEWORK\C3D FILES\14703000\SHEETSPLAN\090201-XS-PIPE.DWG
LAYOUT NAME - 05

PLOT DATE : 6/8/2022 6:31 AM PLOT BY : SCHERER, MEGAN S PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

Wisconsin Department of Transportation

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