wis FEB 13, 2024

PROJECT ID: 6996-04-72

COUNTY: WAUPACA COUNTY

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 = 246



30

N

DESIGN DESIGNATION

A.A.D.T.	(2024)	=	3800
A.A.D.T.	(2044)	=	4020
D.H.V.		=	-
D.D.		=	-
T.		=	7.6%
DESIGN SPEED		=	30 MPH
ESALS		=	680,000

CONVENTIONAL SYMBOLS

PLAN		PROFILE	
CORPORATE LIMITS		GRADE LINE	
PROPERTY LINE		ORIGINAL GROUND	
LOT LINE		MARSH OR ROCK PROFILE (To be noted as such)	ROCK
LIMITED HIGHWAY EASEMENT		SPECIAL DITCH	LABEL
EXISTING RIGHT OF WAY		GRADE ELEVATION	95.36
PROPOSED OR NEW R/W LINE		CULVERT (Profile View)	
SLOPE INTERCEPT		UTILITIES	
REFERENCE LINE	300'EB	ELECTRIC	E
EXISTING CULVERT		FIBER OPTIC	FO
PROPOSED CULVERT (Box or Pipe)		GAS	G
COMBUSTIBLE FLUIDS	CAUTION	SANITARY SEWER	SAN
		STORM SEWER	SS
MARSH AREA		TELEPHONE	T
		WATER	W
		UTILITY PEDESTAL	
WOODED OR SHRUB AREA		POWER POLE	
		TELEPHONE POLE	

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

C. NEW LONDON, N. WATER STREET

SHAWANO ST TO PEARL ST

CTH D

WAUPACA COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
6996-04-72	WISC 2024255	1

STATE PROJECT NUMBER
6996-04-72



TOTAL NET LENGTH OF CENTERLINE = 0.3 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), WAUPACA COUNTY, NAD83 (1991), 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 (2007). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

ACCEPTED FOR
CITY OF NEW LONDON
10/30/2023 DATE
SIGNATURE
Director of Public Works
TITLE OF OFFICIAL

ORIGINAL PLANS PREPARED BY
McMAHON
ENGINEERS ARCHITECTS

WISCONSIN
JOSHUA G FREWERD
E-43652
APPLETON
WI
PROFESSIONAL ENGINEER

10/25/2023 DATE
SIGNATURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	McMAHON
Designer	McMAHON
Project Manager	JASON SCHAEFFER
Regional Examiner	NC REGION
Regional Supervisor	DAN ERVA

APPROVED FOR THE DEPARTMENT
DATE: 10/30/2023 (Signature)

E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\TITLE SHEET\WATER STREET TITLE.DWG PLOT DATE : 10/25/2023 11:13 AM PLOT BY : JOSH FREWERD PLOT NAME :

GENERAL NOTES:

BEARINGS AND COORDINATES SHOWN ON THIS PLAN ARE REFERENCED TO THE WAUPACA COUNTY COORDINATE SYSTEM. DISTANCES SHOWN ARE GROUND DISTANCES.

ELEVATIONS ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 WITH 2007 ADJUSTMENT (NAVD88(07)).

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY FACILITIES AS SHOWN ON THE PLAN ARE APPROXIMATE AND ARE BASED ON UTILITY LOCATES OBTAINED FROM THE UTILITIES WHEN THE SURVEY DATA WAS COLLECTED PRIOR TO THE FINAL DESIGN OF THE PROJECT. IT IS ANTICIPATED THAT UTILITY FACILITIES WILL BE RELOCATED AS PART OF THIS PROJECT AS DESCRIBED IN THE SPECIAL PROVISIONS. ALL PROPOSED RELOCATED UTILITIES ARE NOT SHOWN ON THE PLAN SHEETS. THERE MAY BE OTHER UTILITY FACILITIES WITHIN THE PROJECT LIMITS THAT ARE NOT SHOWN ON THE PLAN SHEETS.

THE EXACT LOCATION OF ALL EROSION CONTROL ITEMS IS APPROXIMATE AND MAY BE ADJUSTED BY THE ENGINEER IN THE FIELD.

THE EXACT LIMITS OF CONCRETE, ASPHALT, OR GRAVEL SURFACES REMOVAL AND REPLACEMENT ARE APPROXIMATE AND SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

EXCAVATION BELOW SUBGRADE (EBS) AREAS ARE CALLED OUT AS UNDISTRIBUTED ON THE PLAN QUANTITIES FOR COMMON EXCAVATION. THESE AREAS ARE TO BE BACKFILLED WITH BREAKER RUN. EXACT LOCATIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

PRIOR TO ORDERING DRAINAGE PIPES AND STRUCTURES, THE CONTRACTOR SHALL VERIFY RELATED DRAINAGE INFORMATION IN THE PLAN WITH THE ENGINEER.

PIPE ELEVATIONS AS SHOWN ON THE PLANS MAY BE ADJUSTED BY THE ENGINEER TO FIT FIELD CONDITIONS.

THE REMOVAL OF ASPHALTIC DRIVEWAYS WILL BE PAID FOR AS COMMON EXCAVATION.

REMOVAL OF ANY REINFORCEMENT AND MESH FOUND IN THE EXISTING CONCRETE SHALL BE CONSIDERED INCIDENTAL TO THE ITEM OF REMOVING PAVEMENT.

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

UTILITIES:

AT&T
KYLE WEBER
221 W WASHINGTON ST.
APPLETON, WI 54911
920-221-5969
kw715w@ATT.COM

CITY OF NEW LONDON - WASTEWATER
BEN GREUEL
1010 W WOLF RIVER AVE
NEW LONDON, WI 54961
920-982-8511
BGREUEL@NEWLONDONWI.ORG

NEW LONDON UTILITIES - WATER
MIKE PINCH
400 E NORTH WATER ST
NEW LONDON, WI 54961
920-982-8516
MPINCH@NLUWI.ORG

NEW LONDON UTILITIES - ELECTRIC
MIKE FREDERICK
400 E NORTH WATER ST
NEW LONDON, WI 54961
920-359-0784
MFREDERICK@NLUWI.ORG

SPECTRUM
BILL PARMENTER
853 McINTOSH ST.
WAUSAU, WI 54403
608-301-6189
BILL.PARMENTER@CHARTER.COM

WE ENERGIES - GAS
EDDIE HEDLUND
800 INDUSTRIAL PARK DR
IRON MOUNTAIN, MI 49801
920-380-3240
EDDIE.HEDLUND@WE-ENERGIES.COM

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

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

TOTAL PROJECT AREA = 3.89 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 3.86 ACRES

ORDER OF SECTION 2 SHEETS:

PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
PAVING DETAILS
EROSION CONTROL
STORM SEWER
SIGNING
STREET LIGHTING
TRAFFIC SIGNALS
PAVEMENT MARKING
TRAFFIC CONTROL
HORIZONTAL ALIGNMENT

DNR LIAISON:

DEPARTMENT OF NATURAL RESOURCES
CASEY JONES
625 E. CTY RD Y, SUITE 700
OSHKOSH, WI 54901
715-213-6571
CASEY.JONES@WISCONSIN.GOV

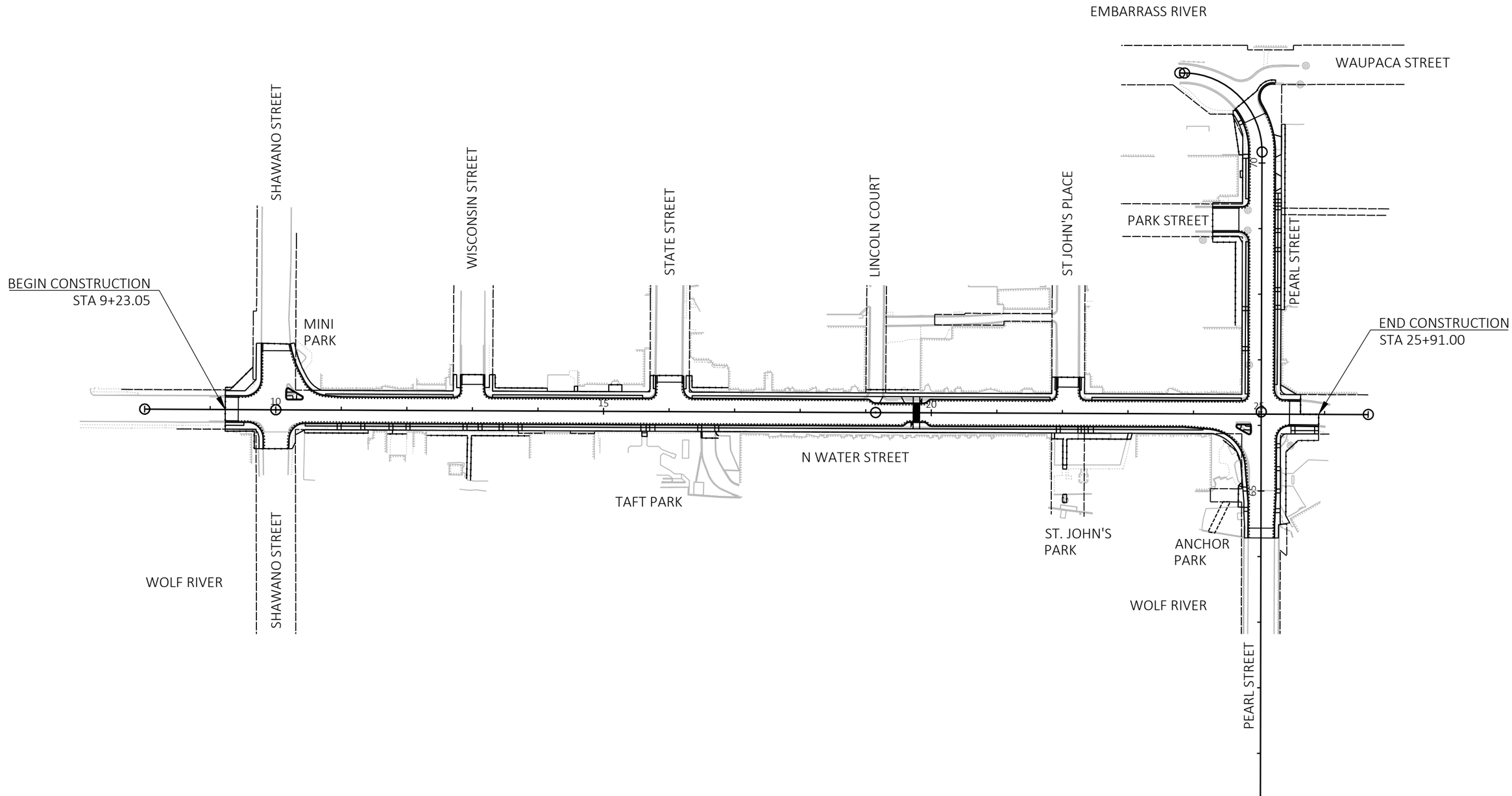
2

STANDARD ABBREVIATIONS AND SYMBOLS

ADJ.	ADJUST (MANHOLE COVER OR WATER VALVE BOX)
ASPH	ASPHALT
AVE.	AVENUE
⊕	BENCH MARK
B-B	BACK TO BACK OF CURB
B.A.D.	BASE AGGREGATE DENSE
B.O.C. or B/C	BACK OF CURB
℄ or CL	CENTERLINE
CONC	CONCRETE
C.M.P.	CORRUGATED METAL CULVERT PIPE
C.T.H.	COUNTY TRUNK HIGHWAY
CL.	CLASS
△	DELTA
D.	DEGREE OF CURVE
DW	DRIVEWAY
E.	EAST
EB	EASTBOUND
E-MAT	EROSION MAT
ELEV	ELEVATION
EOP	EDGE OF PAVEMENT
EOR	END OF RADIUS
EXIST.	EXISTING
FE	FIELD ENTRANCE
F-F	FACE TO FACE OF CURB
FL	FLOWLINE
GRAV	GRAVEL
GV	GAS VALVE
HDPE	HIGH DENSITY POLYETHYLENE CULVERT PIPE
HE	HIGHWAY EASEMENT
HMA	HMA
H.P.	HIGH POINT
HYD.	HYDRANT
L.	LENGTH OF CURVE
LP	LIGHT POLE
L.V.C.	LENGTH OF VERTICAL CURVE
L.S.	LANDSCAPING
LT.	LEFT
MH	MANHOLE
MAX	MAXIMUM
MIN	MINIMUM
NB	NORTH BOUND
NO.	NUMBER
NOR.	NORMAL
P.E.	PRIVATE ENTRANCE
P.G.L.	PROFILE GRADE LINE
P.I.	POINT OF INTERSECTION
PP	POWER POLE (OVERHEAD LINES)
P.T.	POINT OF TANGENCY
P.V.C.	POINT OF VERTICAL CURVATURE
P.V.I.	POINT OF VERTICAL INTERSECTION
P.V.T.	POINT OF VERTICAL TANGENCY
P/L	PROPERTY LINE
PVT.	PAVEMENT
PED.	PEDESTAL
R or RAD	RADIUS
R.C.P.	REINFORCED CONCRETE PIPE
RECON.	RECONSTRUCT
REQ'D	REQUIRED
R/L	REFERENCE LINE
REM.	REMOVE
R/W	RIGHT OF WAY
RD.	ROAD
RT.	RIGHT
S.	SOUTH
SAN	SANITARY SEWER
SB	SOUTH BOUND
S.D.D.	STANDARD DETAIL DRAWING
SI	SLOPE INTERCEPT
STA.	STATION
S.T.H.	STATE TRUNK HIGHWAY
STA.	STATION
SW	CONCRETE SIDEWALK
T.I.	TEMPORARY INTEREST
TLE	TEMPORARY LIMITED INTEREST
TYP.	TYPICAL
V.C.	VERTICAL CURVE
WB	WESTBOUND
W	WATERMAIN
WV	WATER VALVE/SHUTOFF
⊙	HYDRANT W/AUXILIARY VALVE
⊙—	LIGHT POLE

2

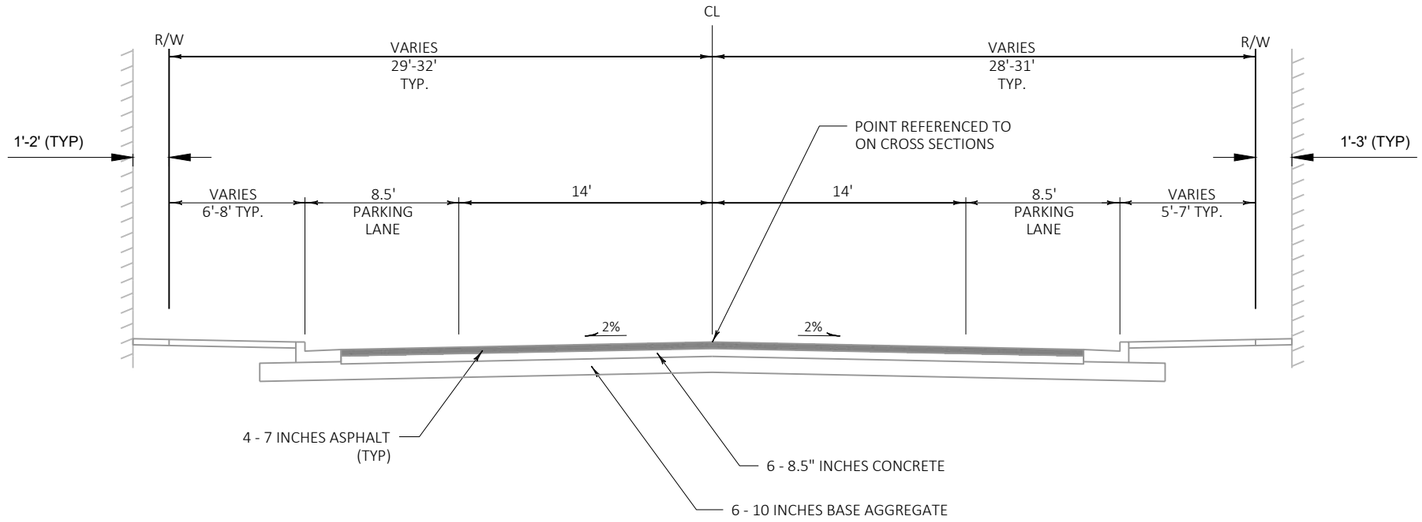
N



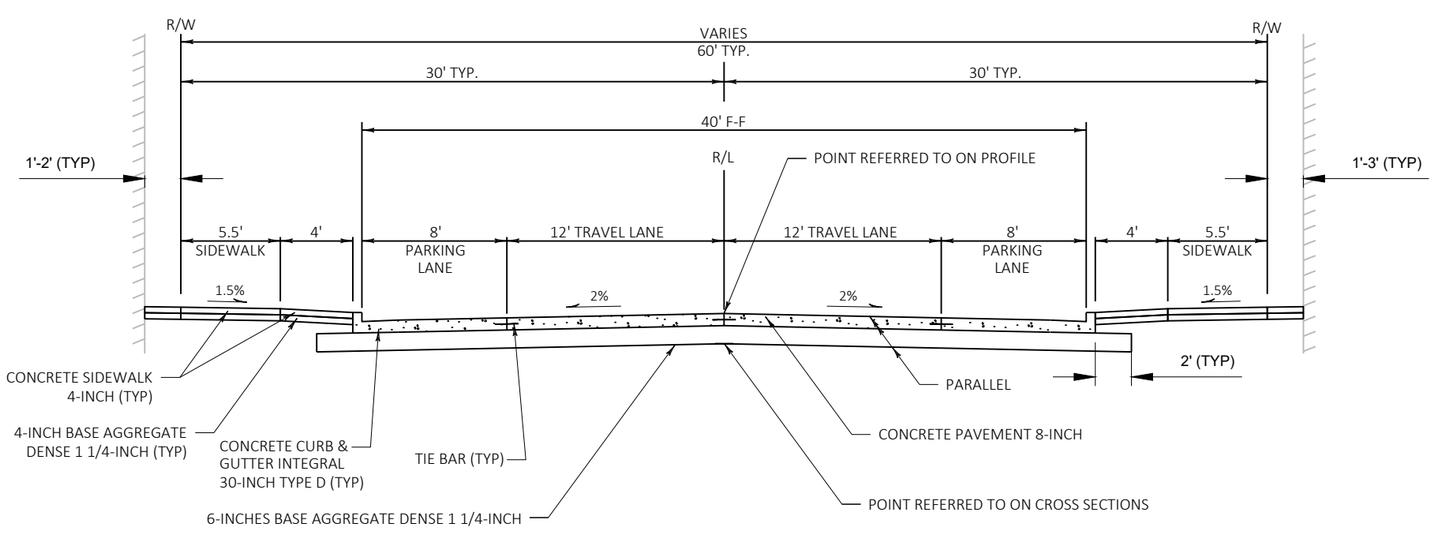
PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	PROJECT OVERVIEW	SHEET 4	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\02-DETAILS\NWATER-OVERVIEW.DWG
LAYOUT NAME - Plan 1 IN 150 FT
PLOT DATE : 10/27/2023 12:38 PM
PLOT BY : JOSH FREWERD
PLOT NAME :
PLOT SCALE : 1 IN:150 FT
WISDOT/CADDS SHEET 42

2

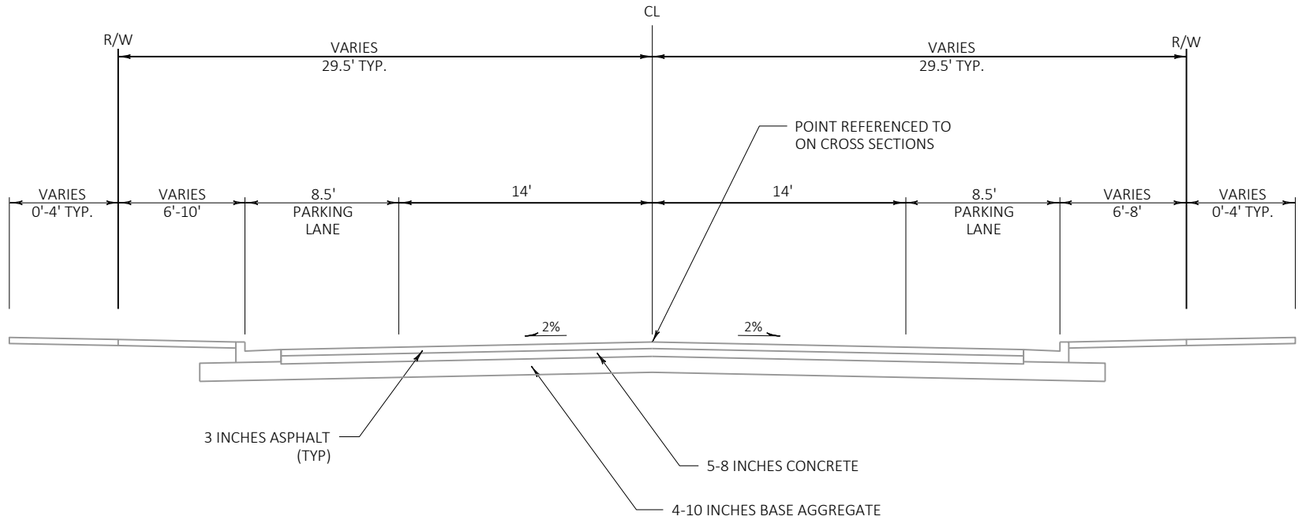


EXISTING TYPICAL SECTION
NORTH WATER STREET
STA 9+23.05 - 25+91.00

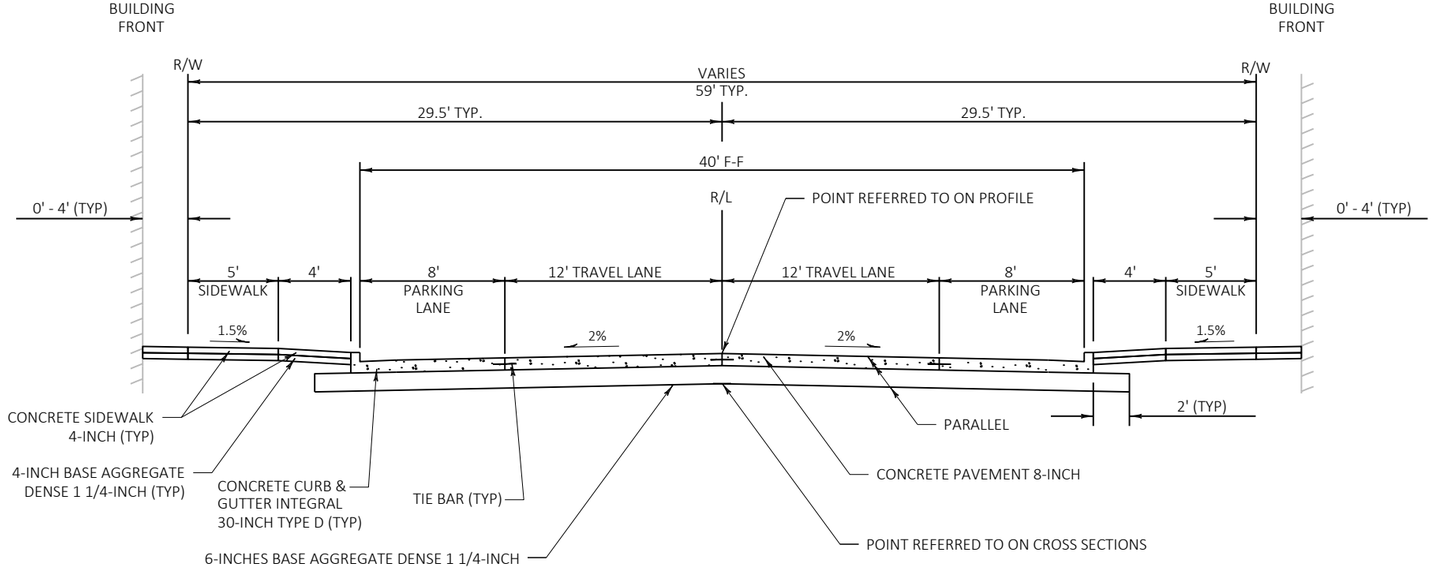


FINISHED TYPICAL SECTION
NORTH WATER STREET
STA 9+23.05 - 25+91.00

2

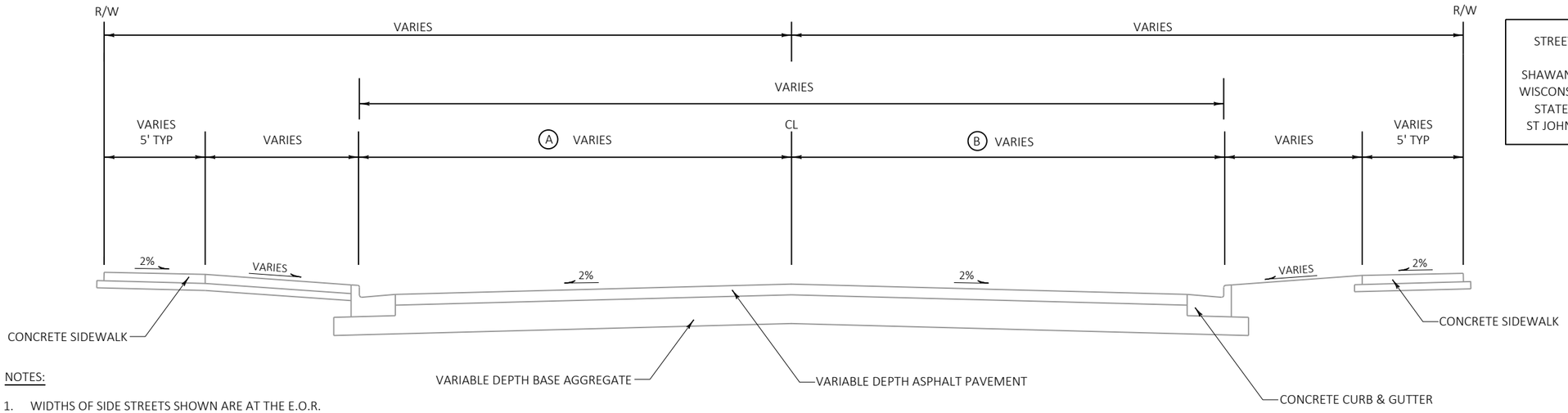


EXISTING TYPICAL SECTION
PEARL STREET
STA 64+28.45 - 71+00



FINISHED TYPICAL SECTION
PEARL STREET
STA 64+28.45 - 71+00

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	TYPICAL SECTIONS	SHEET 6	E

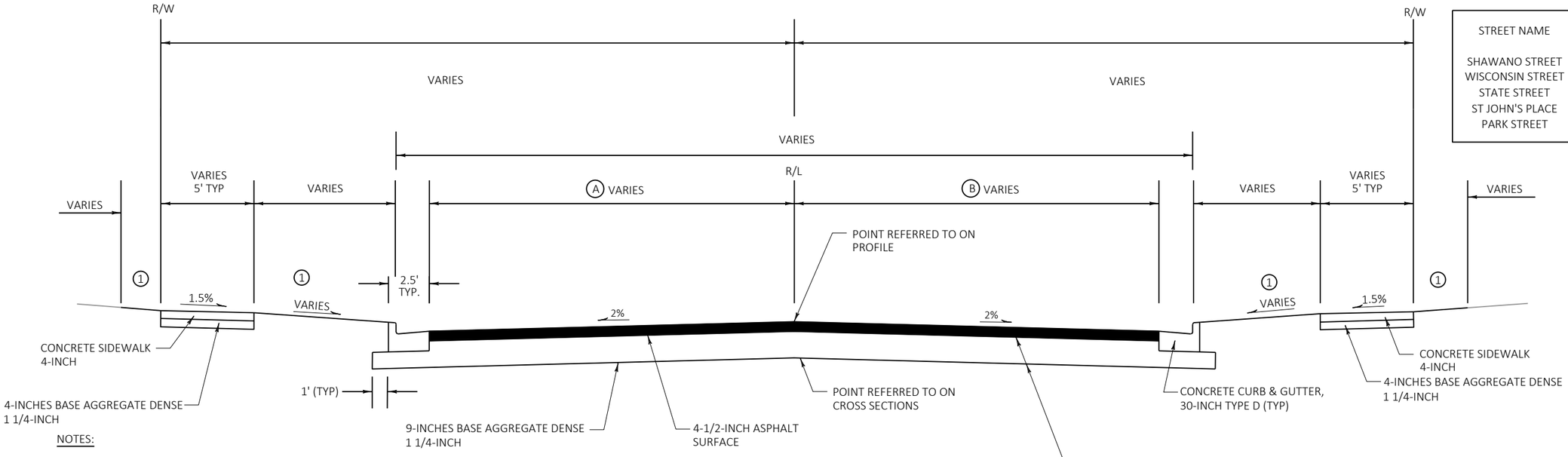


STREET NAME	A	B
SHAWANO STREET	19.2'-22.1'	20.1'-39.7'
WISCONSIN STREET	19.2'	17.0'
STATE STREET	22.1'	19.6'
ST JOHN'S PLACE	18.2'	16.8'

NOTES:

1. WIDTHS OF SIDE STREETS SHOWN ARE AT THE E.O.R.
2. (A) AND (B) = DISTANCE FROM C/L TO FACE OF CURB

EXISTING TYPICAL SECTION FOR SIDE STREETS
EXISTING ASPHALT PAVEMENT
(SEE TABLE FOR STREET NAMES)

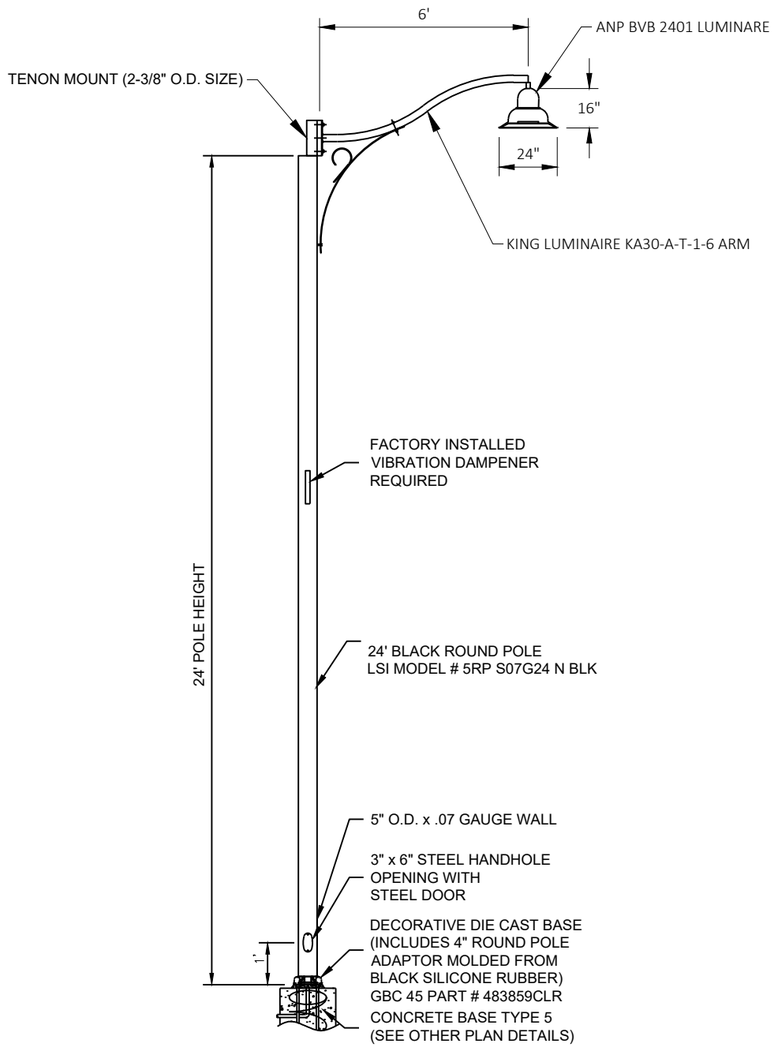


STREET NAME	A	B
SHAWANO STREET	20.1'	19.5'-21.9'
WISCONSIN STREET	16.8'	15.6'
STATE STREET	19.0'	19.0'
ST JOHN'S PLACE	15.5'	15.5'
PARK STREET	17.0'	17.0'

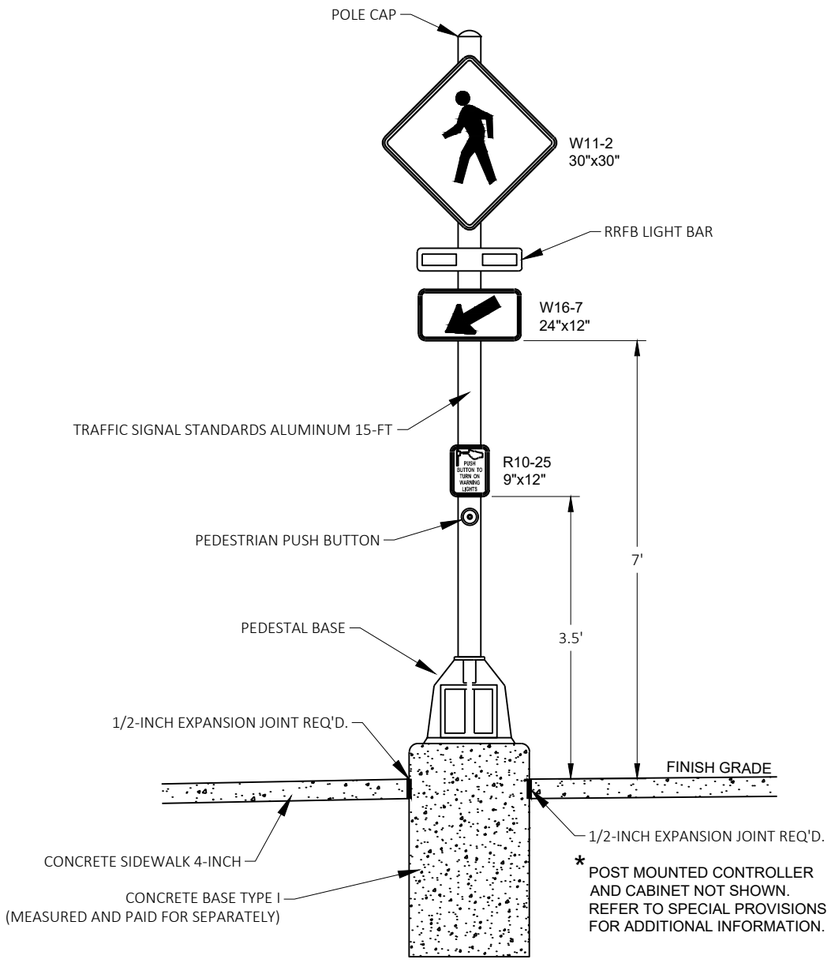
NOTES:

1. WIDTHS OF SIDE STREETS SHOWN ARE AT THE E.O.R.
2. (A) AND (B) = DISTANCE FROM C/L TO GUTTER FLANGE
3. (1) VARIES. TOPSOIL, SOD/ CONCRETE SIDEWALK OR 3" ASPHALT SURFACE. SEE CONSTRUCTION DETAILS

PROPOSED TYPICAL SECTION FOR SIDE STREETS
ASPHALT PAVEMENT
(SEE TABLE FOR STREET NAMES)
(SEE PAVING DETAILS FOR PAVING LIMITS)



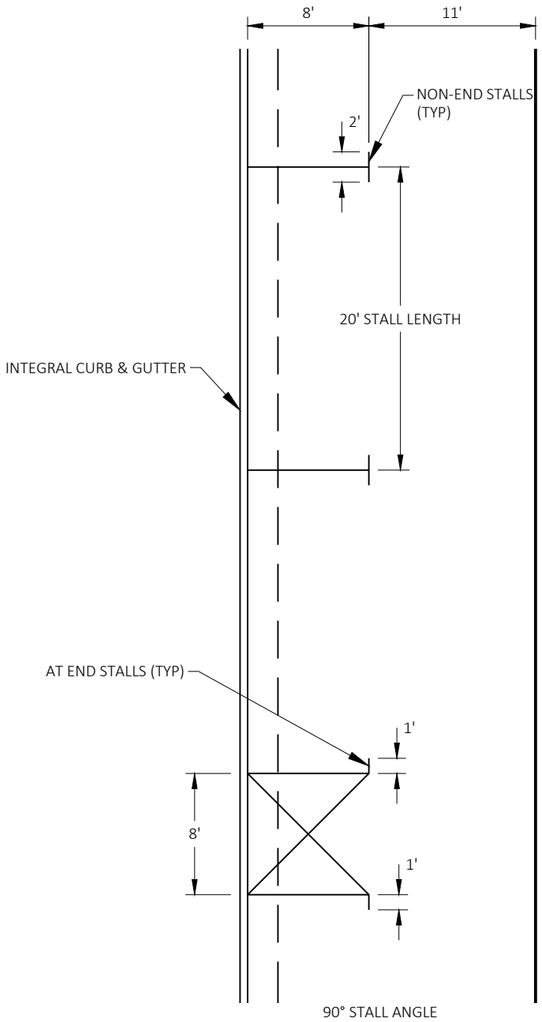
LIGHTING ASSEMBLY



120 VAC POWERED WARNING RRFB CROSSWALK SYSTEM

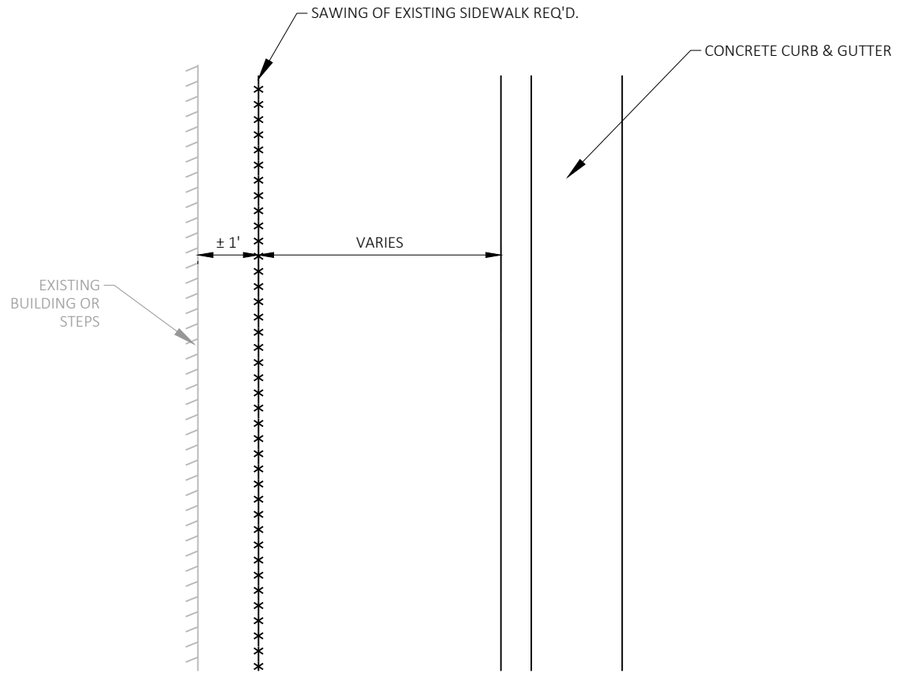
ASSEMBLY DETAIL

SCALE: NONE



PARALLEL PARKING DETAIL

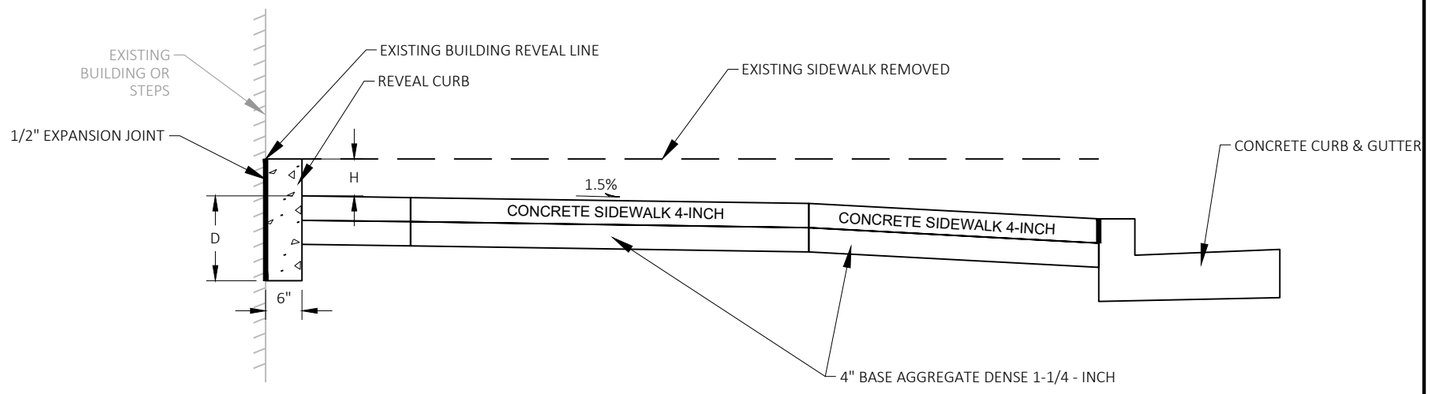
(SEE PLAN DETAILS FOR LOCATIONS)



NOTE: REMOVE SIDEWALK TO THE FACE OF BUILDING WITHOUT DAMAGING EXISTING BUILDING, USING METHODS APPROVED BY ENGINEER.

REMOVING EXISTING SIDEWALK ADJACENT TO BUILDING DETAIL

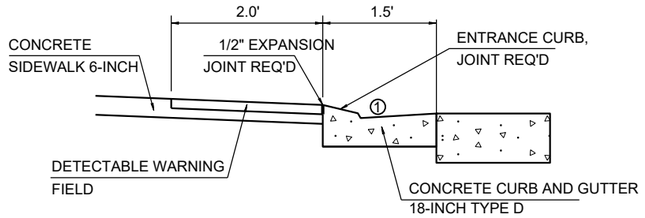
(AT BUILDING)



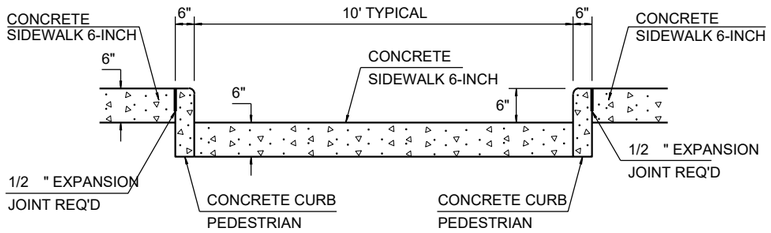
H = HEIGHT OF CURB, VARIES, 0-10"
D = DEPTH OF CURB BASE = 2 X H, 6" MIN

REVEAL CURB DETAIL

(SEE PLAN DETAILS FOR LOCATIONS)

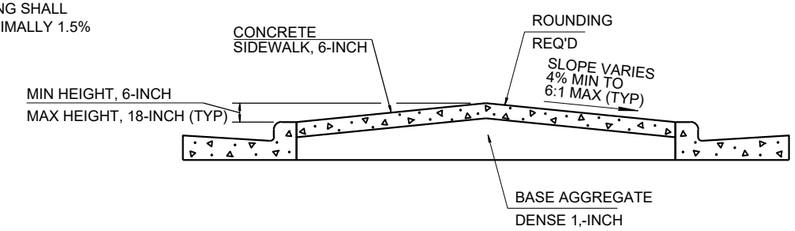


SECTION A-A

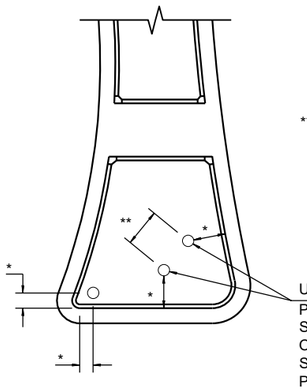


SECTION B-B

① NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH AREA ALLOWED SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5%



SECTION C-C



* DISTANCE TO BE LAID OUT IN THE FIELD BASED ON SIGN SIZE. TWO FOOT MINIMUM CLEARANCE BETWEEN THE EDGE OF SIGN AND THE FACE OF CURB.

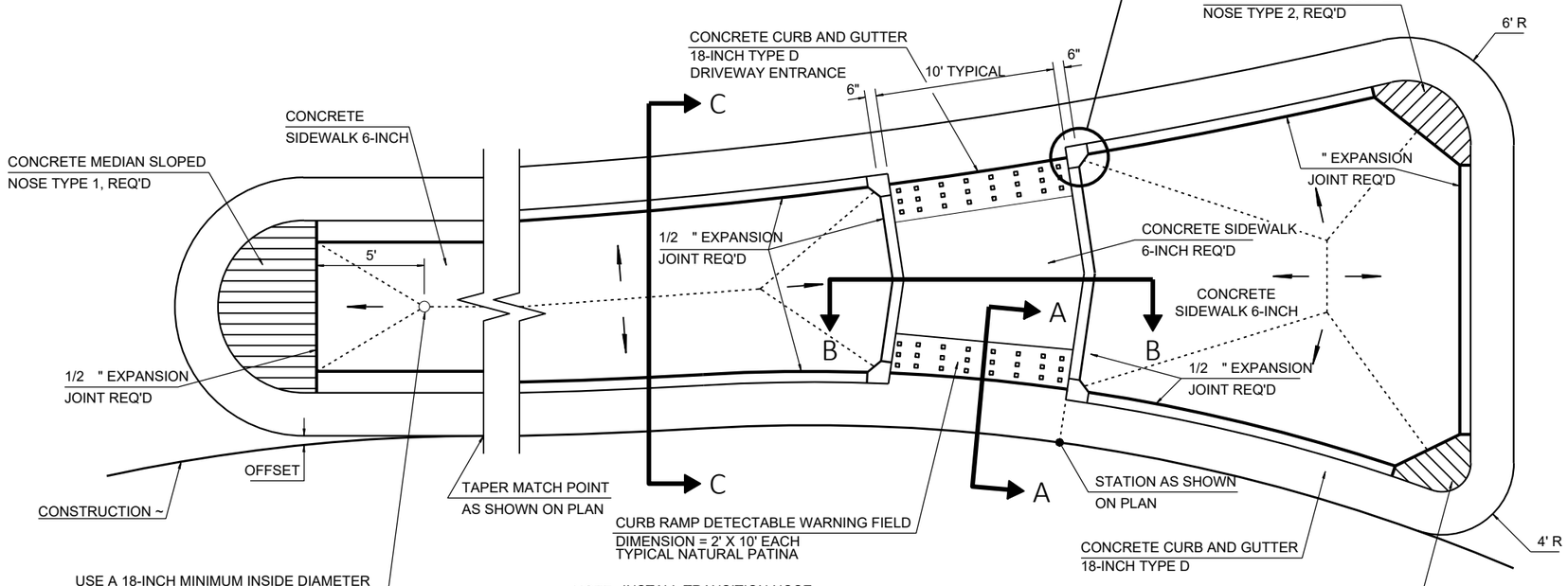
** SEE A4-4 SIGN PLATE FOR POST SPACING REQUIREMENTS.

SEE A4-3 SIGN PLATE FOR "TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POST"

SEE A4-3B SIGN PLATE "SIGN POST BOX-OUTS"

USE A 18-INCH MINIMUM INSIDE DIAMETER PVC PIPE BOX OUT IN CONCRETE FOR SIGN POST (TYP). THE NUMBER OF BOX OUTS REQUIRED VARIES BY WIDTH OF THE SIGN AND SHALL BE VERIFIED BEFORE PLACING THE CONCRETE IN THE ISLAND.

ISLAND SIGN LOCATION DETAIL (TYP)



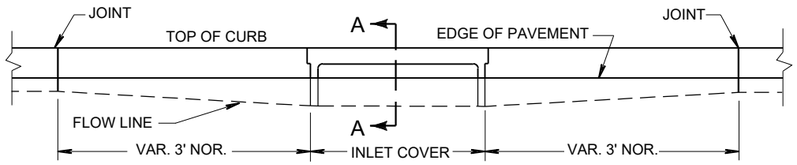
USE A 18-INCH MINIMUM INSIDE DIAMETER PVC PIPE BOX OUT IN CONCRETE FOR SIGN POST (TYP). THE NUMBER OF BOX OUTS REQUIRED VARIES BY WIDTH OF THE SIGN AND SHALL BE VERIFIED BEFORE PLACING THE CONCRETE IN THE ISLAND.

NOTE: INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.) DO NOT MARK TRANSITION NOSE.

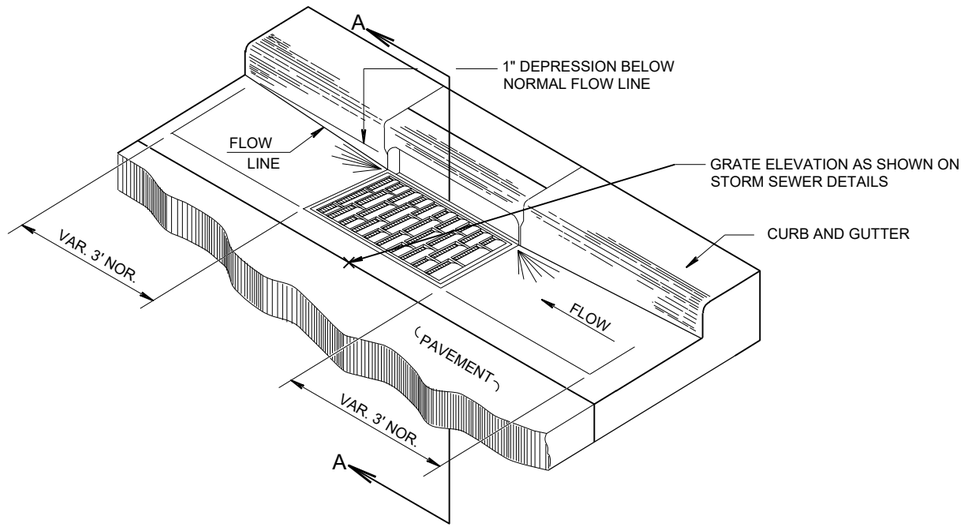
DRAINAGE BREAK POINT
DIRECTION OF DRAINAGE

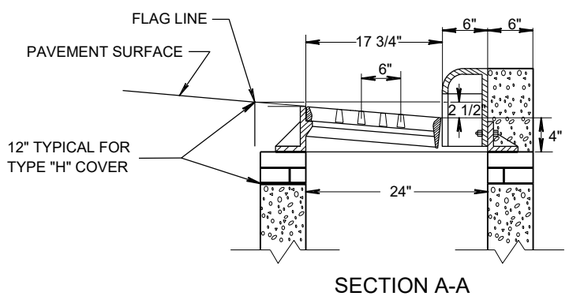
SPLITTER ISLAND DETAIL

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	CONSTRUCTION DETAILS	SHEET 10	E



ELEVATION

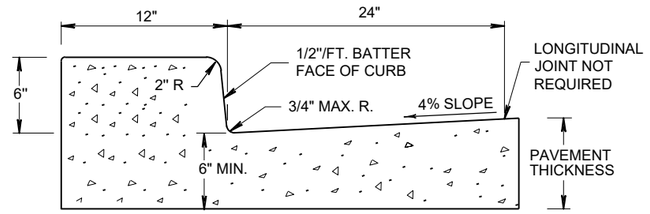




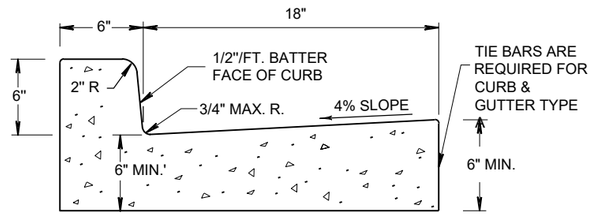
SECTION A-A

DETAIL OF CURB AND GUTTER AT INLETS

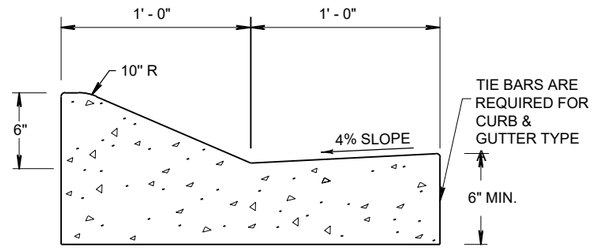
(TYPE 2x3-H INLET SHOWN IN 36-INCH CURB AND GUTTER)



CONCRETE CURB AND GUTTER, INTEGRAL 36-INCH TYPE D

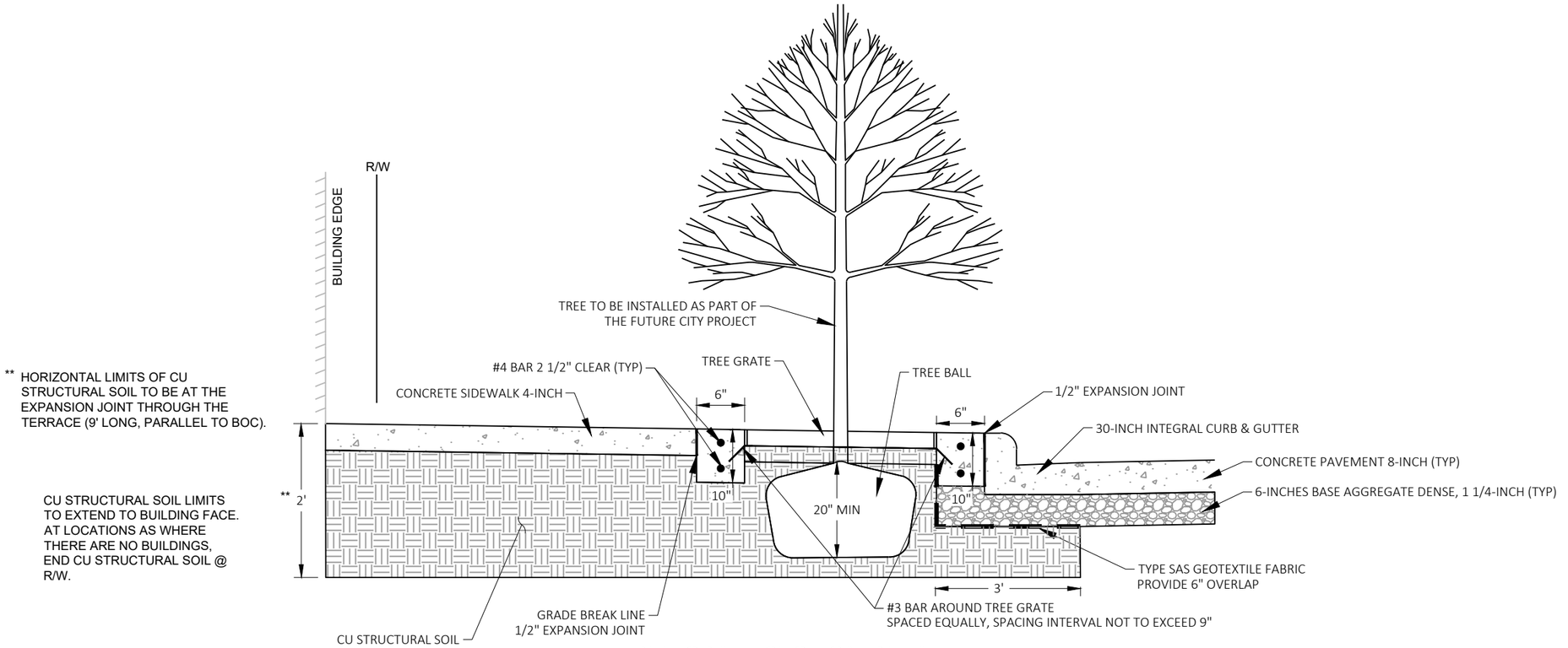


CONCRETE CURB & GUTTER, 24-INCH, TYPES A & D

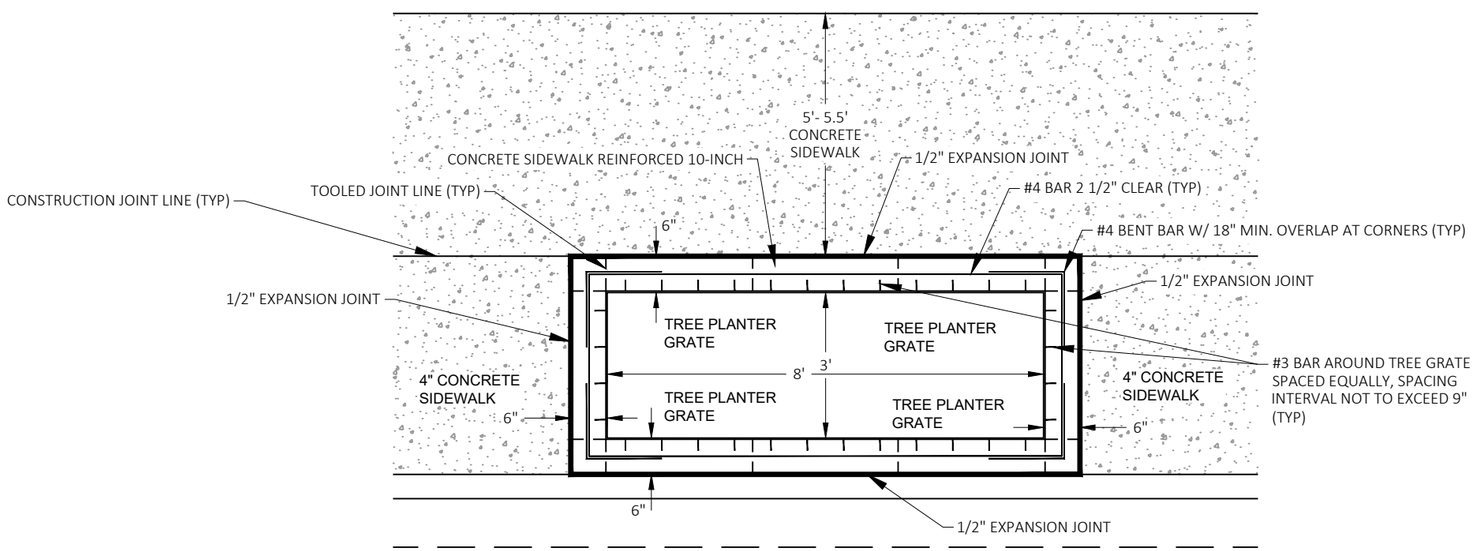


CONCRETE CURB & GUTTER, 24-INCH, 6" SLOPED

2



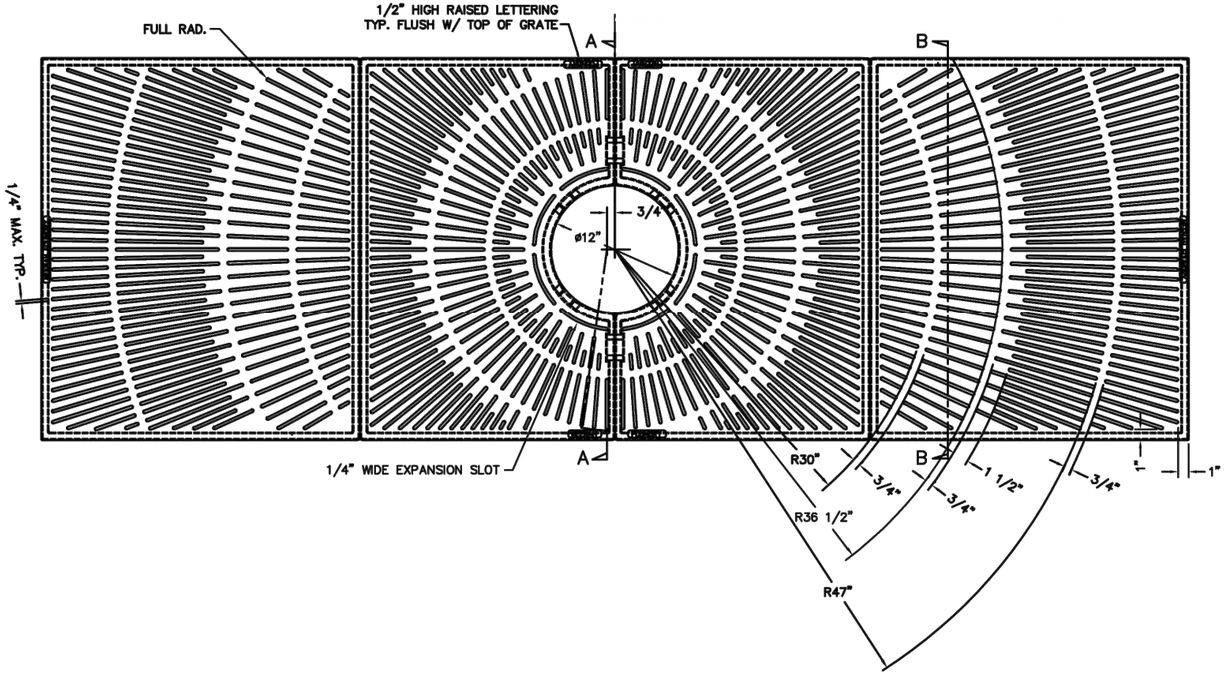
TREE GRATE SECTION DETAIL

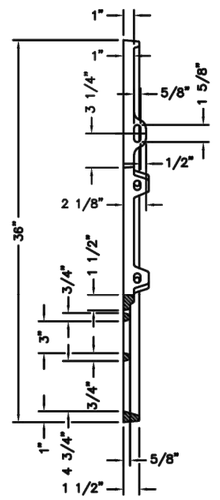


TREE PLANTER LAYOUT DETAIL

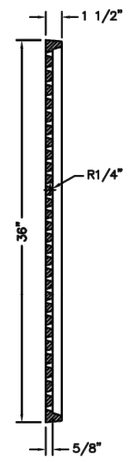
PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	CONSTRUCTION DETAILS	SHEET 12	E

2





SECTION A–A



SECTION B–B

THIS DETAIL IS FOR INFORMATIONAL PURPOSES ONLY. ACTUAL 3' x 8' TREE GRATE TO BE PROVIDED BY THE CITY OF NEW LONDON.

COMPONENT NO'S.: TREE GRATE (2) 8835–0001, EXT. GRATE (2) 8824–0001
MATERIAL: CAST GRAY IRON ASTM A–48, CLASS 35B
FINISH: NO PAINT, UNLESS SPECIFIED ON PURCHASE ORDER
WEIGHT: TREE GRATE 109 LBS./EA., EXT. GRATE 254 LBS./EA.

DR. E. NIVER	SCALE 1"=1'-0"	TITLE: R–8824 (36" X 96") TREE GRATE W/EXTENSION GRATES	
CH. RKB			
APP. SPT	NEENAH FOUNDRY	NF-8824 100	B
DATE 08–17–2017	NEENAH WISCONSIN 54956 PHONE 800–558–5075		
www.nfco.com	LINCOLN, NEBRASKA 68529 PHONE 800–234–7466		

CAD DWG. REF: 8824 100.DWG– 1

Shawano-NW					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
SH-50	9+79.95	45.75' LT	758.00	354578.50	625611.32
SH-51	9+74.26	29.21' LT	758.20	354561.99	625605.56
SH-52	9+67.05	22.76' LT	758.31	354555.57	625598.32
SH-53	9+61.56	20.19' LT	758.38	354553.03	625592.82
SH-54	9+52.96	18.78' LT	758.48	354551.66	625584.21
SH-55	9+52.96	21.28' LT	758.90	354554.16	625584.22
SH-56	9+60.76	22.56' LT	758.34	354555.40	625592.03
SH-57	9+65.75	24.89' LT	758.27	354557.71	625597.02
SH-58	9+72.32	30.79' LT	758.62	354563.58	625603.63
SH-59	9+63.65	39.47' LT	758.78	354572.30	625594.99
SH-60	9+60.43	36.25' LT	758.46	354569.10	625591.76
SH-61	9+56.30	32.12' LT	758.50	354564.98	625587.61
SH-62	9+52.96	28.78' LT	758.83	354561.66	625584.25
SH-63	9+47.96	28.78' LT	758.99	354561.68	625579.25

Shawano-ISLAND					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
SH-75	10+28.45	28.38' LT	758.59	354560.91	625659.75
SH-76	10+34.13	25.10' LT	758.66	354557.60	625665.42
SH-77	10+40.30	21.53' LT	758.74	354554.00	625671.57
SH-78	10+38.55	15.00' LT	758.84	354547.48	625669.79
SH-79	10+31.80	15.00' LT	758.81	354547.51	625663.04
SH-80	10+26.30	15.00' LT	758.79	354547.54	625657.54
SH-81	10+17.34	15.00' LT	758.76	354547.58	625648.57
SH-82	10+15.02	17.18' LT	758.68	354549.77	625646.27
SH-83	10+15.02	21.58' LT	758.60	354554.17	625646.29
SH-84	10+15.03	27.08' LT	758.50	354559.67	625646.32
SH-85	10+15.03	30.09' LT	758.44	354562.68	625646.34
SH-86	10+20.28	33.11' LT	758.40	354565.68	625651.61
SH-87	10+23.43	27.08' LT	758.63	354559.64	625654.72
SH-88	10+24.30	21.58' LT	758.71	354554.13	625655.57
SH-89	10+26.30	19.58' LT	758.75	354552.12	625657.56
SH-90	10+31.80	22.30' LT	758.70	354554.81	625663.07
SH-91	10+27.75	27.03' LT	758.59	354559.57	625659.05
SH-92	10+32.86	24.10' LT	758.66	354556.61	625664.14
SH-93	10+31.80	16.50' LT	758.81	354549.01	625663.04
SH-94	10+26.30	16.50' LT	758.79	354549.04	625657.54
SH-95	10+16.52	21.58' LT	758.60	354554.16	625647.79
SH-96	10+16.53	27.08' LT	758.50	354559.66	625647.82

LEGEND

- X — CURB RAMP TYPE
- XX-XX / XXX.XX — POINT NUMBER & ELEVATION
- SW4 — CONCRETE SIDEWALK 4-INCH
- SW6 — CONCRETE SIDEWALK 6-INCH
- — — — SLOPE INTERCEPT

N

NOTE:
FINAL LOCATIONS OF CURB RAMP OPENINGS TO BE VERIFIED BY THE FIELD ENGINEER PRIOR TO INSTALLATION.
ELEVATIONS ARE APPROXIMATE AND ARE TO BE CONFIRMED BY THE FIELD ENGINEER AS THEY MAY NEED TO BE ADJUSTED AFTER CURB AND GUTTER PLACEMENT.
SLOPES MUST BE LESS THAN THE MAXIMUM ALLOWED FOR ADA COMPLIANCE. SEE STANDARD DETAIL DRAWINGS SDD 8D5 FOR MORE INFORMATION.

Shawano-NE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
SH-100	10+75.71	20.02' LT	758.73	354552.33	625706.97
SH-101	10+54.71	27.66' LT	758.40	354560.07	625686.01
SH-102	10+47.00	34.75' LT	758.34	354567.19	625678.33
SH-103	10+43.64	39.32' LT	758.30	354571.78	625674.99
SH-104	10+39.40	47.17' LT	758.25	354579.65	625670.79
SH-105	10+41.62	48.31' LT	758.67	354580.78	625673.02
SH-106	10+45.66	40.81' LT	758.26	354573.25	625677.02
SH-107	10+48.91	36.37' LT	758.30	354568.80	625680.25
SH-108	10+56.07	29.77' LT	758.82	354562.17	625687.38
SH-109	10+59.90	35.13' LT	758.92	354567.50	625691.23
SH-110	10+54.20	40.25' LT	758.40	354572.65	625685.56
SH-111	10+50.74	44.53' LT	758.36	354576.95	625682.12
SH-112	10+46.96	51.06' LT	758.76	354583.50	625678.37

SHAWANO ST

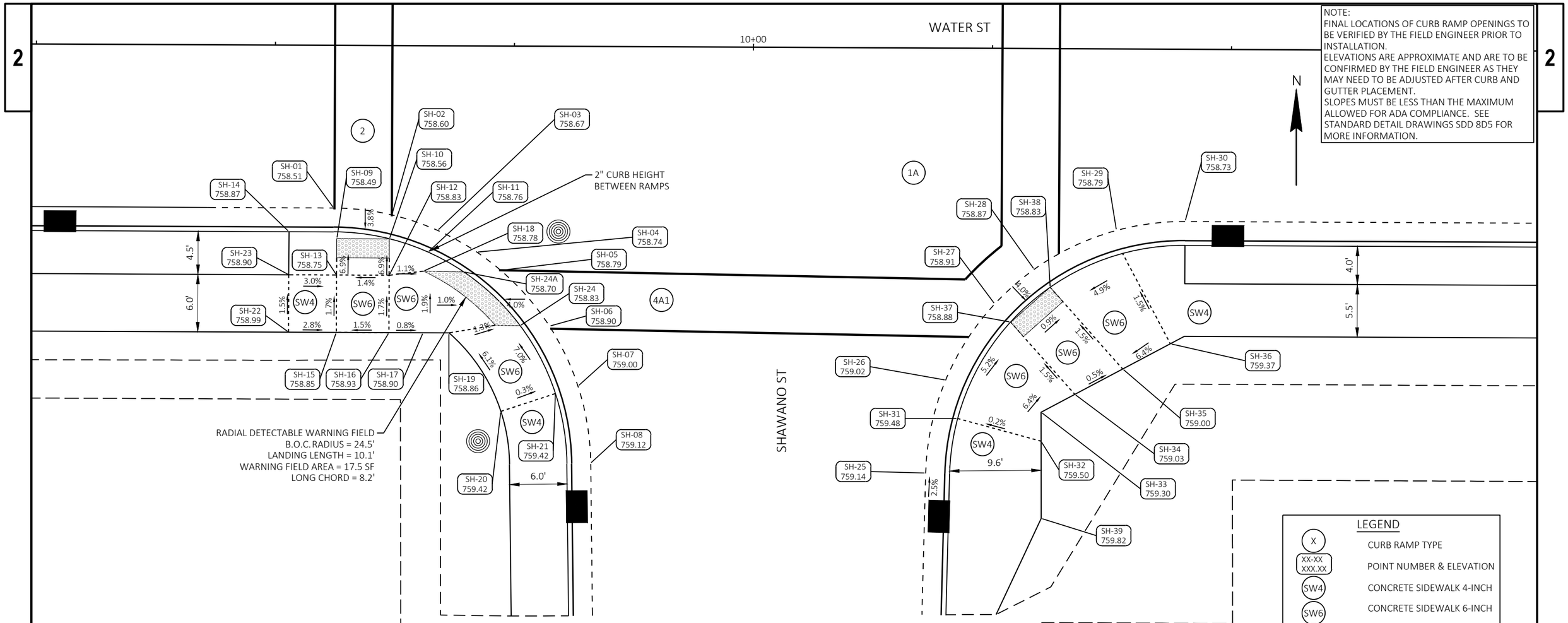
WATER ST

10+00

11+

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	CURB RAMPS	SHEET 14	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\02-CURB RAMPS\WATERST-CURBRAMPS.DWG
LAYOUT NAME - SHAWANO NORTH
PLOT DATE : 10/29/2023 6:11 PM PLOT BY : JOSH FREWERD PLOT NAME : PLOT SCALE : 1 IN:10 FT



LEGEND

- X — CURB RAMP TYPE
- XX-XX XXX.XX — POINT NUMBER & ELEVATION
- SW4 — CONCRETE SIDEWALK 4-INCH
- SW6 — CONCRETE SIDEWALK 6-INCH
- SLOPE INTERCEPT

ShawanoSW					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
SH-01	9+56.18	17.00' RT	758.51	354515.86	625587.27
SH-02	9+62.26	17.71' RT	758.60	354515.13	625593.34
SH-03	9+67.05	19.28' RT	758.67	354513.53	625598.13
SH-04	9+71.17	21.54' RT	758.74	354511.25	625602.24
SH-05	9+73.67	23.43' RT	758.79	354509.35	625604.73
SH-06	9+78.79	29.25' RT	758.90	354503.51	625609.83
SH-07	9+81.81	35.51' RT	759.00	354497.24	625612.82
SH-08	9+83.14	43.57' RT	759.12	354489.17	625614.11
SH-09	9+56.51	20.20' RT	758.49	354512.66	625587.58
SH-10	9+62.01	20.20' RT	758.56	354512.63	625593.08
SH-11	9+66.04	21.57' RT	758.76	354511.24	625597.11
SH-12	9+62.00	24.00' RT	758.83	354508.84	625593.07
SH-13	9+56.50	24.00' RT	758.75	354508.86	625587.57

ShawanoSW					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
SH-14	9+51.51	19.50' RT	758.87	354513.38	625582.59
SH-15	9+56.50	30.00' RT	758.85	354502.86	625587.54
SH-16	9+62.00	30.00' RT	758.93	354502.84	625593.04
SH-17	9+65.58	30.00' RT	758.90	354502.82	625596.61
SH-18	9+65.58	23.56' RT	758.78	354509.26	625596.64
SH-19	9+68.27	30.00' RT	758.86	354502.81	625599.31
SH-20	9+73.74	38.18' RT	759.42	354494.60	625604.74
SH-21	9+79.44	36.29' RT	759.42	354496.46	625610.44
SH-22	9+51.51	30.00' RT	758.99	354502.88	625582.54
SH-23	9+51.51	24.00' RT	758.90	354508.88	625582.57
SH-24	9+75.71	29.21' RT	758.83	354503.56	625606.75
SH-24A	9+69.78	23.62' RT	758.70	354509.18	625600.84

ShawanoSE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
SH-25	10+18.23	44.41' RT	759.14	354488.17	625649.18
SH-26	10+20.28	34.70' RT	759.02	354497.87	625651.28
SH-27	10+25.36	26.72' RT	758.91	354505.82	625656.39
SH-28	10+29.47	23.08' RT	758.87	354509.45	625660.53
SH-29	10+38.05	18.97' RT	758.79	354513.51	625669.13
SH-30	10+45.22	18.00' RT	758.73	354514.45	625676.30
SH-31	10+21.54	38.71' RT	759.48	354493.86	625652.52
SH-32	10+30.28	41.03' RT	759.50	354491.49	625661.25
SH-33	10+30.26	38.00' RT	759.30	354494.52	625661.24
SH-34	10+33.78	36.11' RT	759.03	354496.39	625664.77

ShawanoSE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
SH-35	10+38.77	33.44' RT	759.00	354499.04	625669.78
SH-36	10+43.75	30.78' RT	759.37	354501.68	625674.76
SH-37	10+27.03	28.59' RT	758.88	354503.94	625658.06
SH-38	10+31.15	24.95' RT	758.83	354507.57	625662.19
SH-39	10+30.33	49.11' RT	759.82	354483.41	625661.26

Wisconsin-NW					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
WI-01	12+72.06	18.00' LT	758.73	354549.36	625903.31
WI-02	12+76.23	18.75' LT	758.76	354550.09	625907.49
WI-03	12+82.72	24.48' LT	758.81	354555.79	625914.00
WI-04	12+84.06	30.00' LT	758.85	354561.30	625915.37
WI-05	12+84.03	35.36' LT	758.79	354566.67	625915.36
WI-06	12+81.53	35.35' LT	759.21	354566.66	625912.86
WI-07	12+81.56	30.00' LT	758.81	354561.32	625912.87
WI-08	12+79.81	24.50' LT	758.76	354555.82	625911.09
WI-09	12+75.36	21.09' LT	759.18	354552.44	625906.63
WI-10	12+75.76	24.50' LT	759.03	354555.84	625907.05
WI-11	12+75.76	30.00' LT	759.12	354561.34	625907.07
WI-12	12+70.76	30.00' LT	759.21	354561.37	625902.07
WI-13	12+70.76	24.50' LT	759.12	354555.87	625902.05
WI-14	12+65.76	24.50' LT	759.29	354555.89	625897.05
WI-15	12+65.76	30.00' LT	759.37	354561.39	625897.07
WI-16	12+70.77	35.00' LT	759.40	354566.37	625902.10
WI-17	12+75.77	35.00' LT	759.31	354566.34	625907.10
WI-18	12+79.81	30.00' LT	758.84	354561.32	625911.11

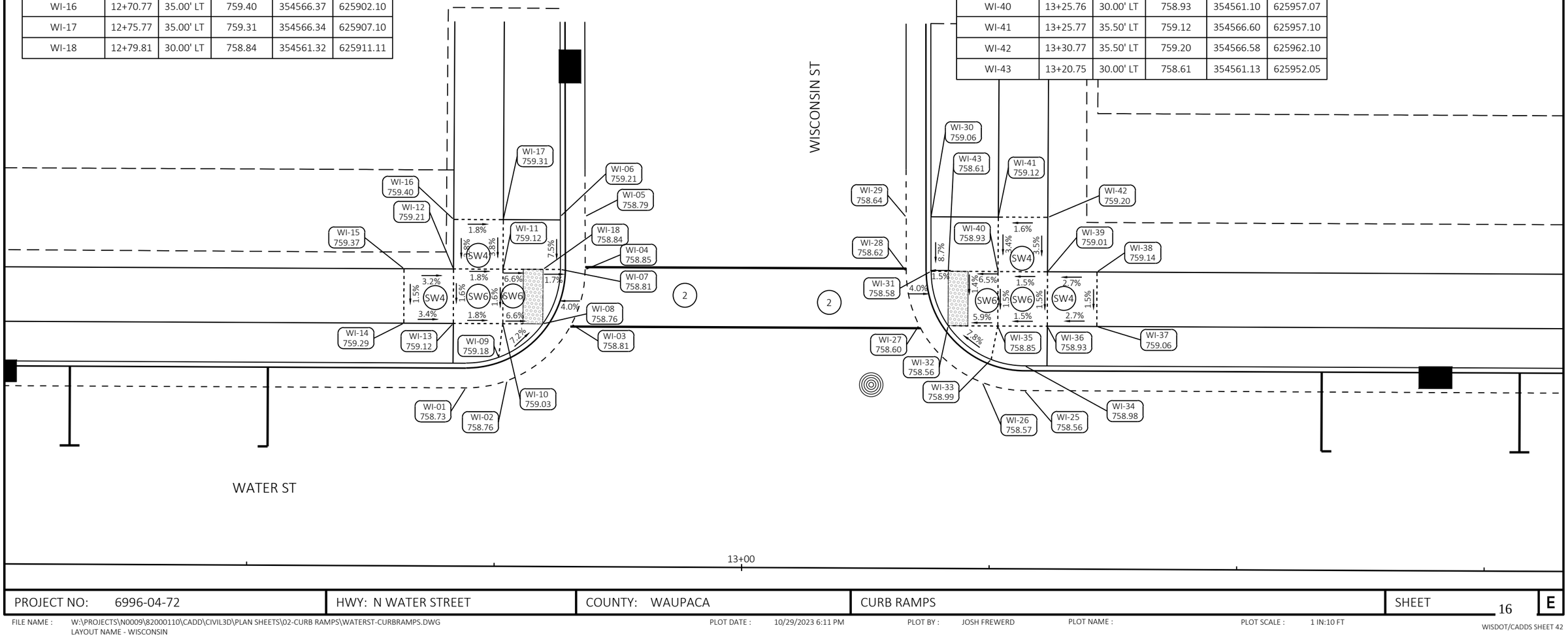
LEGEND

- X — CURB RAMP TYPE
- XX-XX / XXX.XX — POINT NUMBER & ELEVATION
- SW4 — CONCRETE SIDEWALK 4-INCH
- SW6 — CONCRETE SIDEWALK 6-INCH
- — — — SLOPE INTERCEPT

Wisconsin-NE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
WI-25	13+28.49	18.00' LT	758.56	354549.09	625959.74
WI-26	13+24.23	18.78' LT	758.57	354549.90	625955.48
WI-27	13+17.81	24.53' LT	758.60	354555.67	625949.09
WI-28	13+16.49	29.98' LT	758.62	354561.13	625947.80
WI-29	13+16.46	35.43' LT	758.64	354566.58	625947.80
WI-30	13+18.96	35.45' LT	759.06	354566.58	625950.30
WI-31	13+18.99	29.99' LT	758.58	354561.13	625950.30
WI-32	13+20.75	24.50' LT	758.56	354555.63	625952.03
WI-33	13+25.12	21.12' LT	758.99	354552.23	625956.38
WI-34	13+28.49	20.50' LT	758.98	354551.59	625959.75
WI-35	13+25.76	24.50' LT	758.85	354555.61	625957.04
WI-36	13+30.76	24.50' LT	758.93	354555.58	625962.04
WI-37	13+35.76	24.50' LT	759.06	354555.56	625967.04
WI-38	13+35.76	30.00' LT	759.14	354561.06	625967.07
WI-39	13+30.76	30.00' LT	759.01	354561.08	625962.07
WI-40	13+25.76	30.00' LT	758.93	354561.10	625957.07
WI-41	13+25.77	35.50' LT	759.12	354566.60	625957.10
WI-42	13+30.77	35.50' LT	759.20	354566.58	625962.10
WI-43	13+20.75	30.00' LT	758.61	354561.13	625952.05

NOTE:
FINAL LOCATIONS OF CURB RAMP OPENINGS TO BE VERIFIED BY THE FIELD ENGINEER PRIOR TO INSTALLATION.
ELEVATIONS ARE APPROXIMATE AND ARE TO BE CONFIRMED BY THE FIELD ENGINEER AS THEY MAY NEED TO BE ADJUSTED AFTER CURB AND GUTTER PLACEMENT.
SLOPES MUST BE LESS THAN THE MAXIMUM ALLOWED FOR ADA COMPLIANCE. SEE STANDARD DETAIL DRAWINGS SDD 8D5 FOR MORE INFORMATION.

N



PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	CURB RAMPS	SHEET 16	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\02-CURB RAMPS\WATERST-CURBRAMPS.DWG
LAYOUT NAME - WISCONSIN
PLOT DATE : 10/29/2023 6:11 PM PLOT BY : JOSH FREWERD PLOT NAME : PLOT SCALE : 1 IN:10 FT

State-NW					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
ST-01	15+59.76	18.00' LT	759.09	354547.98	626191.01
ST-02	15+65.26	18.00' LT	759.06	354547.96	626196.51
ST-03	15+70.76	18.04' LT	759.02	354547.97	626202.01
ST-04	15+75.82	19.64' LT	758.95	354549.55	626207.08
ST-05	15+80.43	24.50' LT	758.87	354554.38	626211.71
ST-06	15+81.76	30.00' LT	758.80	354559.88	626213.07
ST-07	15+79.27	35.00' LT	759.17	354564.89	626210.59
ST-08	15+79.26	30.00' LT	758.76	354559.89	626210.57
ST-09	15+77.51	24.50' LT	758.85	354554.40	626208.79
ST-10	15+74.56	21.80' LT	759.04	354551.71	626205.83
ST-11	15+70.76	20.55' LT	758.97	354550.48	626202.02
ST-12	15+65.26	20.55' LT	759.02	354550.51	626196.52
ST-13	15+59.76	20.50' LT	759.51	354550.48	626191.02
ST-14	15+65.26	24.50' LT	759.08	354554.46	626196.54
ST-15	15+70.76	24.50' LT	759.02	354554.43	626202.04
ST-16	15+75.51	24.50' LT	758.97	354554.41	626206.79
ST-17	15+75.51	30.00' LT	758.92	354559.91	626206.81
ST-18	15+65.26	30.00' LT	759.13	354559.96	626196.57
ST-19	15+54.76	24.50' LT	759.59	354554.51	626186.04
ST-20	15+54.76	30.00' LT	759.67	354560.01	626186.07
ST-21	15+70.77	35.00' LT	759.32	354564.93	626202.09
ST-22	15+75.77	35.00' LT	759.25	354564.90	626207.09

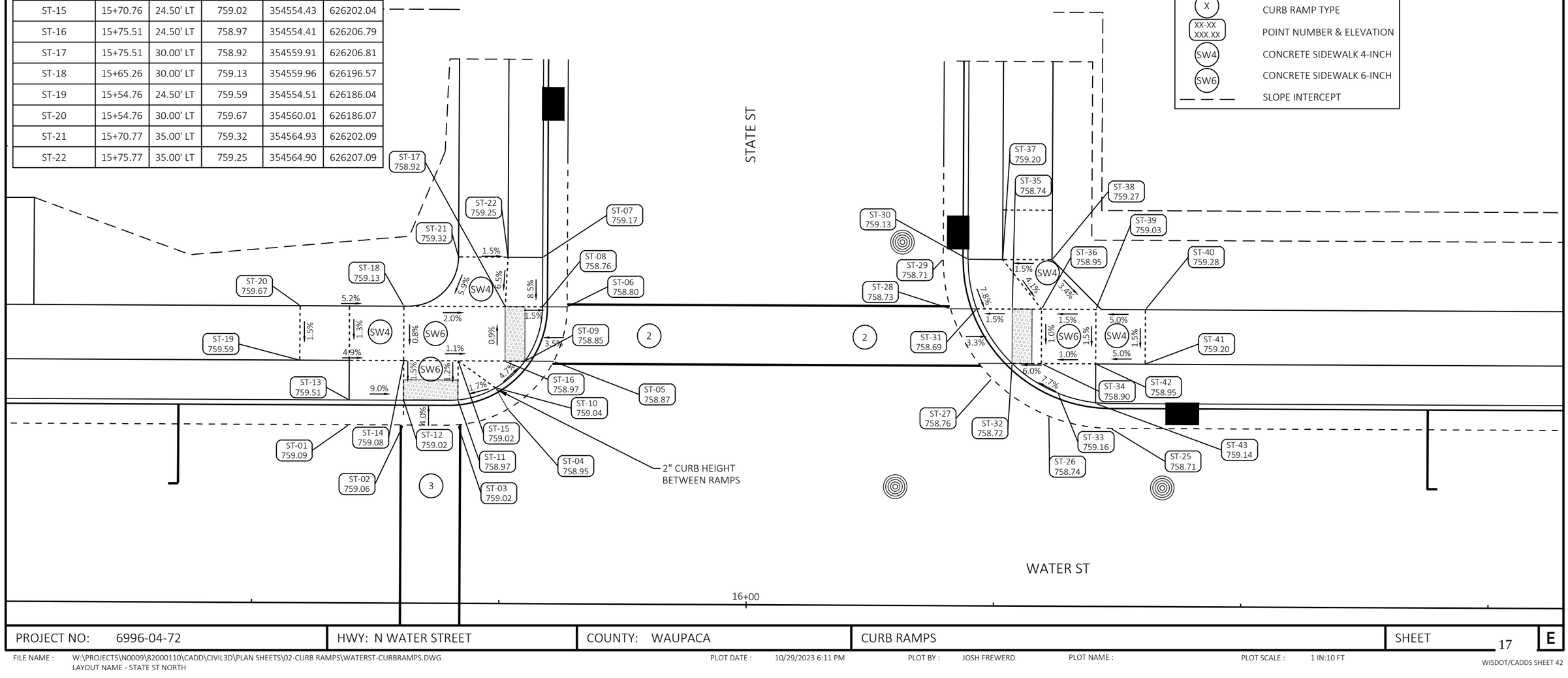
State-NE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
ST-25	16+36.77	18.00' LT	758.71	354547.61	626268.01
ST-26	16+30.52	19.19' LT	758.74	354548.84	626261.77
ST-27	16+24.74	22.98' LT	758.76	354552.65	626256.01
ST-28	16+20.52	30.00' LT	758.73	354559.69	626251.82
ST-29	16+19.77	35.01' LT	758.71	354564.70	626251.09
ST-30	16+22.27	35.00' LT	759.13	354564.69	626253.59
ST-31	16+23.16	30.00' LT	758.69	354559.68	626254.46
ST-32	16+26.77	24.50' LT	758.72	354554.16	626258.04
ST-33	16+31.43	21.52' LT	759.16	354551.16	626262.70
ST-34	16+29.73	24.50' LT	758.90	354554.15	626261.01

State-NE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
ST-35	16+26.77	30.00' LT	758.74	354559.66	626258.07
ST-36	16+29.73	30.00' LT	758.95	354559.65	626261.03
ST-37	16+25.77	35.00' LT	759.20	354564.67	626257.09
ST-38	16+30.77	35.00' LT	759.27	354564.64	626262.09
ST-39	16+35.23	30.00' LT	759.03	354559.62	626266.53
ST-40	16+40.23	30.00' LT	759.28	354559.60	626271.53
ST-41	16+40.23	24.50' LT	759.20	354554.10	626271.51
ST-42	16+35.23	24.50' LT	758.95	354554.12	626266.51
ST-43	16+35.23	20.50' LT	759.14	354550.12	626266.49

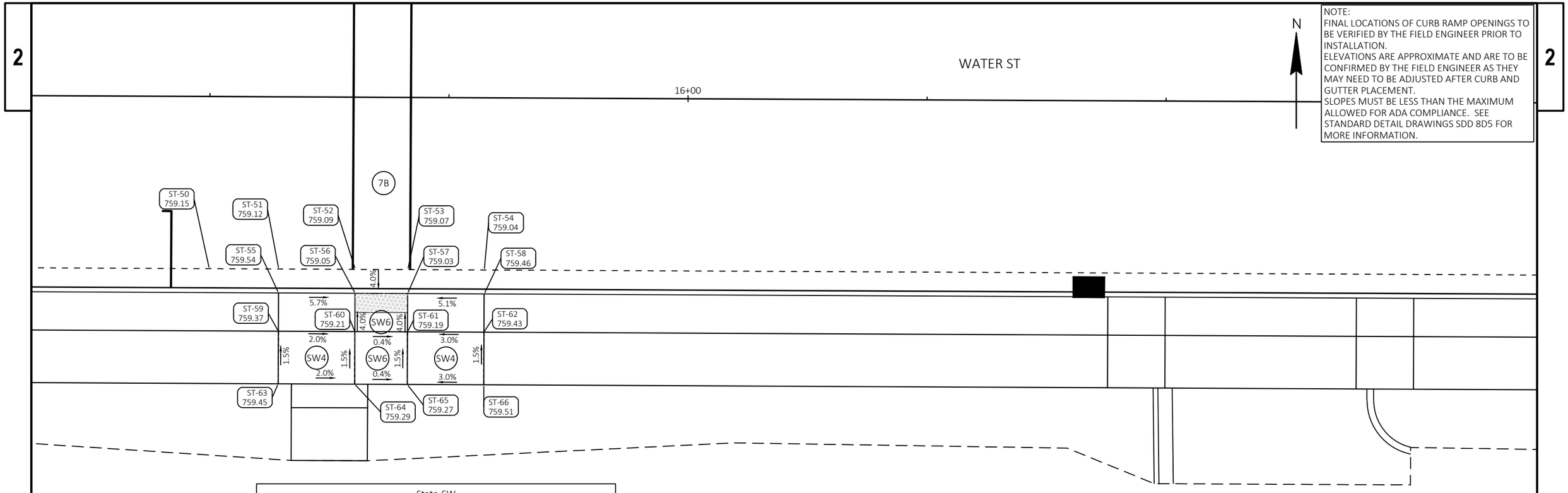
NOTE:
FINAL LOCATIONS OF CURB RAMP OPENINGS TO BE VERIFIED BY THE FIELD ENGINEER PRIOR TO INSTALLATION.
ELEVATIONS ARE APPROXIMATE AND ARE TO BE CONFIRMED BY THE FIELD ENGINEER AS THEY MAY NEED TO BE ADJUSTED AFTER CURB AND GUTTER PLACEMENT.
SLOPES MUST BE LESS THAN THE MAXIMUM ALLOWED FOR ADA COMPLIANCE. SEE STANDARD DETAIL DRAWINGS SDD 8D5 FOR MORE INFORMATION.

N

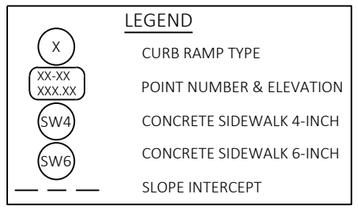
LEGEND
- X — CURB RAMP TYPE
- XX-XX / XXX.XX — POINT NUMBER & ELEVATION
- SW4 — CONCRETE SIDEWALK 4-INCH
- SW6 — CONCRETE SIDEWALK 6-INCH
- SLOPE INTERCEPT



PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	CURB RAMPS	SHEET 17	E



State-SW					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
ST-50	15+50.00	18.00' RT	759.15	354512.03	626181.07
ST-51	15+57.26	18.00' RT	759.12	354512.00	626188.34
ST-52	15+65.26	18.00' RT	759.09	354511.96	626196.34
ST-53	15+70.76	18.00' RT	759.07	354511.93	626201.84
ST-54	15+78.76	18.00' RT	759.04	354511.89	626209.84
ST-55	15+57.26	20.50' RT	759.54	354509.50	626188.33
ST-56	15+65.26	20.50' RT	759.05	354509.46	626196.33
ST-57	15+70.76	20.50' RT	759.03	354509.43	626201.83
ST-58	15+78.76	20.50' RT	759.46	354509.39	626209.83
ST-59	15+57.26	24.50' RT	759.37	354505.50	626188.31
ST-60	15+65.26	24.50' RT	759.21	354505.46	626196.31
ST-61	15+70.76	24.50' RT	759.19	354505.43	626201.81
ST-62	15+78.76	24.50' RT	759.43	354505.39	626209.81
ST-63	15+57.26	30.00' RT	759.45	354500.00	626188.28
ST-64	15+65.26	30.00' RT	759.29	354499.96	626196.28
ST-65	15+70.76	30.00' RT	759.27	354499.93	626201.78
ST-66	15+78.76	30.00' RT	759.51	354499.89	626209.78



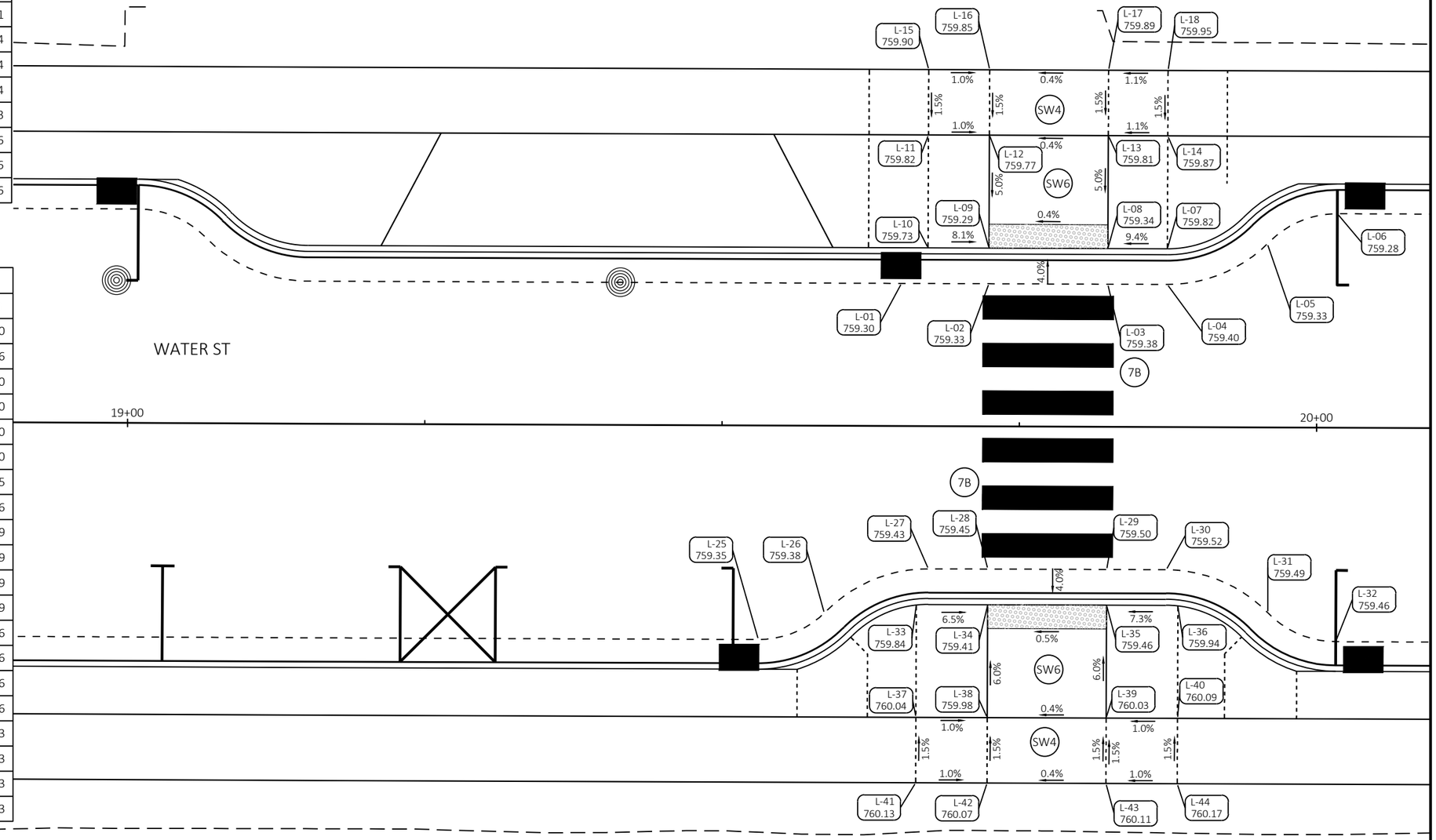
Lincoln-N					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
L-01	19+65.05	12.00' LT	759.30	354540.09	626596.25
L-02	19+72.39	12.00' LT	759.33	354540.06	626603.59
L-03	19+82.39	12.00' LT	759.38	354540.02	626613.59
L-04	19+87.40	12.00' LT	759.40	354540.01	626618.60
L-05	19+95.80	15.44' LT	759.33	354543.41	626627.02
L-06	20+01.68	18.00' LT	759.28	354545.95	626632.90
L-07	19+87.39	15.00' LT	759.82	354543.01	626618.61
L-08	19+82.39	15.00' LT	759.34	354543.02	626613.61
L-09	19+72.39	15.00' LT	759.29	354543.06	626603.61
L-10	19+67.26	15.00' LT	759.73	354543.08	626598.48
L-11	19+67.26	24.50' LT	759.82	354552.58	626598.51
L-12	19+72.39	24.50' LT	759.77	354552.56	626603.64
L-13	19+82.39	24.50' LT	759.81	354552.52	626613.64
L-14	19+87.39	24.50' LT	759.87	354552.51	626618.64
L-15	19+67.26	30.00' LT	759.90	354558.08	626598.53
L-16	19+72.39	30.00' LT	759.85	354558.06	626603.66
L-17	19+82.39	30.00' LT	759.89	354558.02	626613.66
L-18	19+87.39	30.00' LT	759.95	354558.01	626618.66

Lincoln-S					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
L-25	19+53.11	18.00' RT	759.35	354510.14	626584.20
L-26	19+58.66	15.76' RT	759.38	354512.36	626589.76
L-27	19+67.39	12.00' RT	759.43	354516.08	626598.50
L-28	19+72.39	12.00' RT	759.45	354516.06	626603.50
L-29	19+82.39	12.00' RT	759.50	354516.03	626613.50
L-30	19+87.39	12.00' RT	759.52	354516.01	626618.50
L-31	19+95.95	15.59' RT	759.49	354512.39	626627.05
L-32	20+01.68	18.00' RT	759.46	354509.95	626632.76
L-33	19+66.39	15.06' RT	759.84	354513.03	626597.49
L-34	19+72.39	15.00' RT	759.41	354513.06	626603.49
L-35	19+82.39	15.00' RT	759.46	354513.03	626613.49
L-36	19+88.39	15.06' RT	759.94	354512.95	626619.49
L-37	19+66.39	24.50' RT	760.04	354503.59	626597.46
L-38	19+72.39	24.50' RT	759.98	354503.56	626603.46
L-39	19+82.39	24.50' RT	760.03	354503.53	626613.46
L-40	19+88.39	24.50' RT	760.09	354503.50	626619.46
L-41	19+66.39	30.00' RT	760.13	354498.09	626597.43
L-42	19+72.39	30.00' RT	760.07	354498.06	626603.43
L-43	19+82.39	30.00' RT	760.11	354498.03	626613.43
L-44	19+88.39	30.00' RT	760.17	354498.00	626619.43

LEGEND

- X — CURB RAMP TYPE
- XX-XX / XXX.XX — POINT NUMBER & ELEVATION
- SW4 — CONCRETE SIDEWALK 4-INCH
- SW6 — CONCRETE SIDEWALK 6-INCH
- — — — SLOPE INTERCEPT

NOTE:
FINAL LOCATIONS OF CURB RAMP OPENINGS TO BE VERIFIED BY THE FIELD ENGINEER PRIOR TO INSTALLATION.
ELEVATIONS ARE APPROXIMATE AND ARE TO BE CONFIRMED BY THE FIELD ENGINEER AS THEY MAY NEED TO BE ADJUSTED AFTER CURB AND GUTTER PLACEMENT.
SLOPES MUST BE LESS THAN THE MAXIMUM ALLOWED FOR ADA COMPLIANCE. SEE STANDARD DETAIL DRAWINGS SDD 8D5 FOR MORE INFORMATION.



PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	CURB RAMPS	SHEET 19	E

2

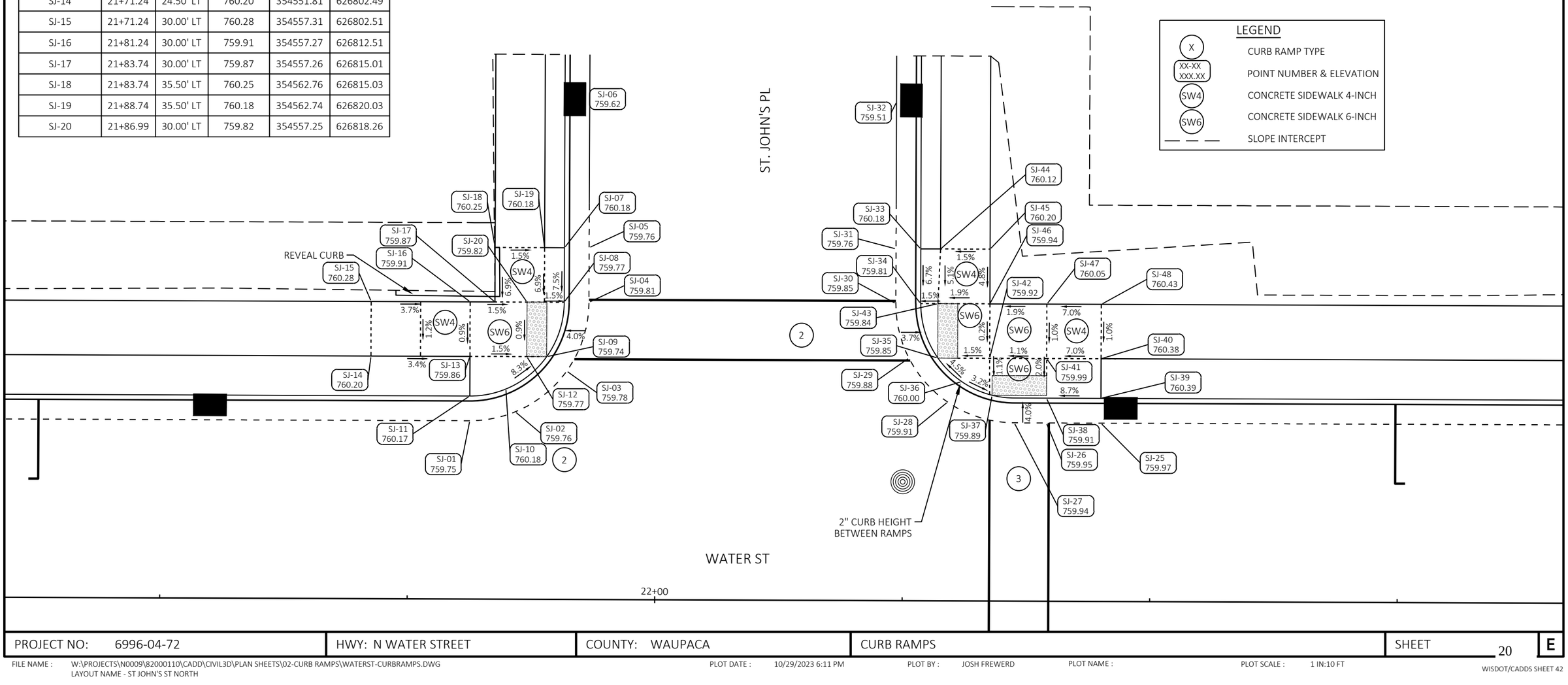
StJohns-NW					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
SJ-01	21+81.24	18.00' LT	759.75	354545.27	626812.47
SJ-02	21+85.85	18.92' LT	759.76	354546.17	626817.08
SJ-03	21+91.03	23.05' LT	759.78	354550.28	626822.27
SJ-04	21+93.24	30.00' LT	759.81	354557.22	626824.51
SJ-05	21+93.24	35.52' LT	759.76	354562.74	626824.53
SJ-06	21+93.24	50.52' LT	759.62	354577.74	626824.59
SJ-07	21+90.74	35.50' LT	760.18	354562.73	626822.03
SJ-08	21+90.74	30.01' LT	759.77	354557.24	626822.01
SJ-09	21+88.99	24.50' LT	759.74	354551.74	626820.24
SJ-10	21+84.89	21.23' LT	760.18	354548.48	626816.13
SJ-11	21+81.24	20.50' LT	760.17	354547.77	626812.48
SJ-12	21+86.99	24.50' LT	759.77	354551.75	626818.24
SJ-13	21+81.24	24.50' LT	759.86	354551.77	626812.49
SJ-14	21+71.24	24.50' LT	760.20	354551.81	626802.49
SJ-15	21+71.24	30.00' LT	760.28	354557.31	626802.51
SJ-16	21+81.24	30.00' LT	759.91	354557.27	626812.51
SJ-17	21+83.74	30.00' LT	759.87	354557.26	626815.01
SJ-18	21+83.74	35.50' LT	760.25	354562.76	626815.03
SJ-19	21+88.74	35.50' LT	760.18	354562.74	626820.03
SJ-20	21+86.99	30.00' LT	759.82	354557.25	626818.26

StJohns-NE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
SJ-25	22+45.00	18.00' LT	759.97	354545.03	626876.22
SJ-26	22+39.50	18.00' LT	759.95	354545.05	626870.72
SJ-27	22+36.24	18.00' LT	759.94	354545.06	626867.47
SJ-28	22+29.51	20.07' LT	759.91	354547.15	626860.74
SJ-29	22+25.58	24.50' LT	759.88	354551.60	626856.83
SJ-30	22+24.24	30.00' LT	759.85	354557.11	626855.51
SJ-31	22+24.24	35.50' LT	759.76	354562.61	626855.53
SJ-32	22+24.24	50.33' LT	759.51	354577.43	626855.59
SJ-33	22+26.74	35.50' LT	760.18	354562.60	626858.03
SJ-34	22+26.74	30.00' LT	759.81	354557.10	626858.01
SJ-35	22+28.50	24.50' LT	759.85	354551.59	626859.75
SJ-36	22+30.91	22.14' LT	760.00	354549.22	626862.15

StJohns-NE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
SJ-37	22+34.00	20.77' LT	759.89	354547.84	626865.23
SJ-38	22+39.50	20.50' LT	759.91	354547.55	626870.73
SJ-39	22+45.00	20.50' LT	760.39	354547.53	626876.23
SJ-40	22+45.00	24.50' LT	760.38	354551.53	626876.25
SJ-41	22+39.50	24.50' LT	759.99	354551.55	626870.75
SJ-42	22+33.74	24.50' LT	759.92	354551.57	626864.99
SJ-43	22+28.50	30.00' LT	759.84	354557.09	626859.77
SJ-44	22+28.74	35.52' LT	760.12	354562.61	626860.03
SJ-45	22+33.74	35.52' LT	760.20	354562.59	626865.03
SJ-46	22+33.74	30.00' LT	759.94	354557.07	626865.01
SJ-47	22+39.50	30.00' LT	760.05	354557.05	626870.77
SJ-48	22+45.00	30.00' LT	760.43	354557.03	626876.27

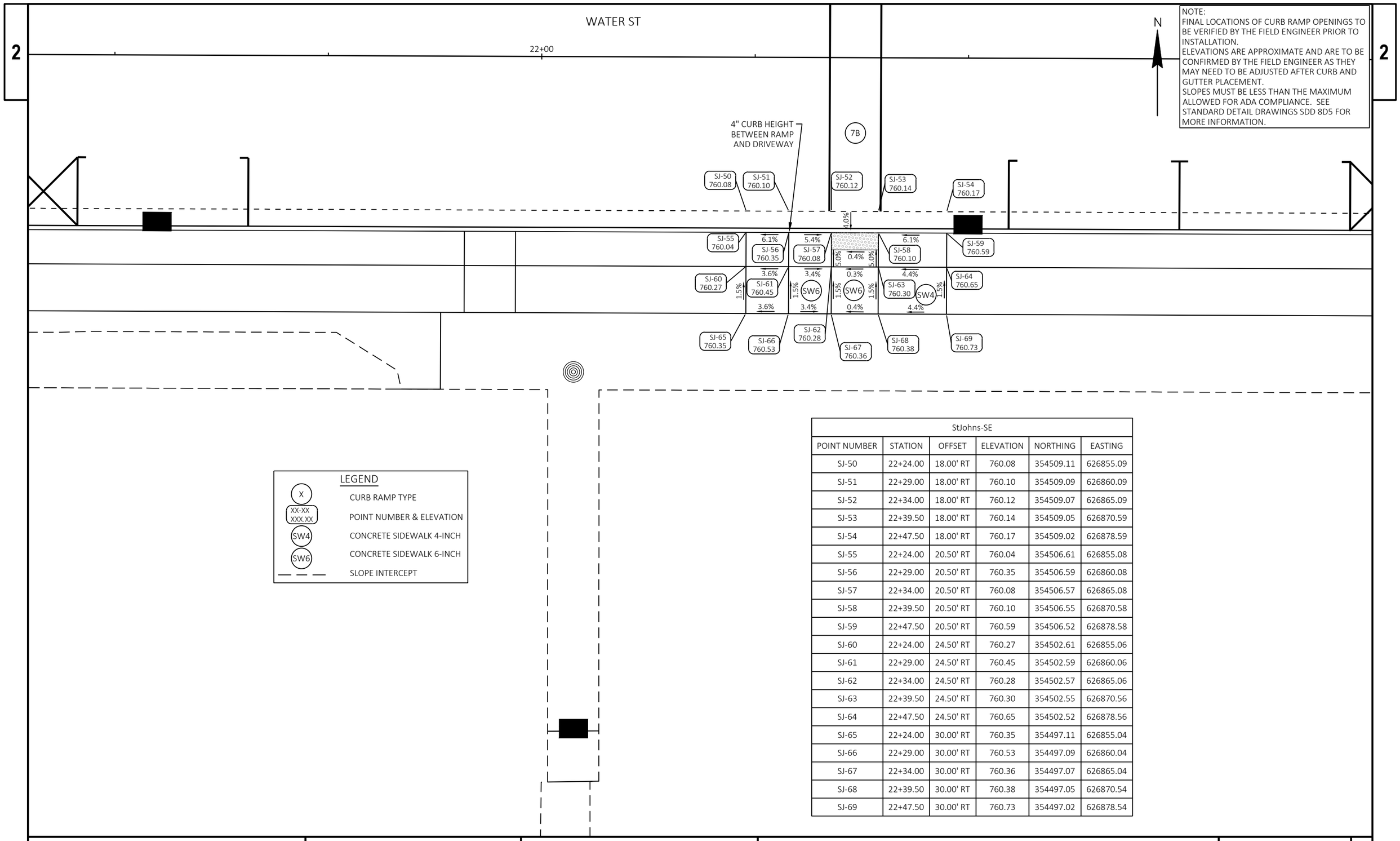
N

NOTE:
FINAL LOCATIONS OF CURB RAMP OPENINGS TO BE VERIFIED BY THE FIELD ENGINEER PRIOR TO INSTALLATION.
ELEVATIONS ARE APPROXIMATE AND ARE TO BE CONFIRMED BY THE FIELD ENGINEER AS THEY MAY NEED TO BE ADJUSTED AFTER CURB AND GUTTER PLACEMENT.
SLOPES MUST BE LESS THAN THE MAXIMUM ALLOWED FOR ADA COMPLIANCE. SEE STANDARD DETAIL DRAWINGS SDD 8D5 FOR MORE INFORMATION.



PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	CURB RAMPS	SHEET 20	E

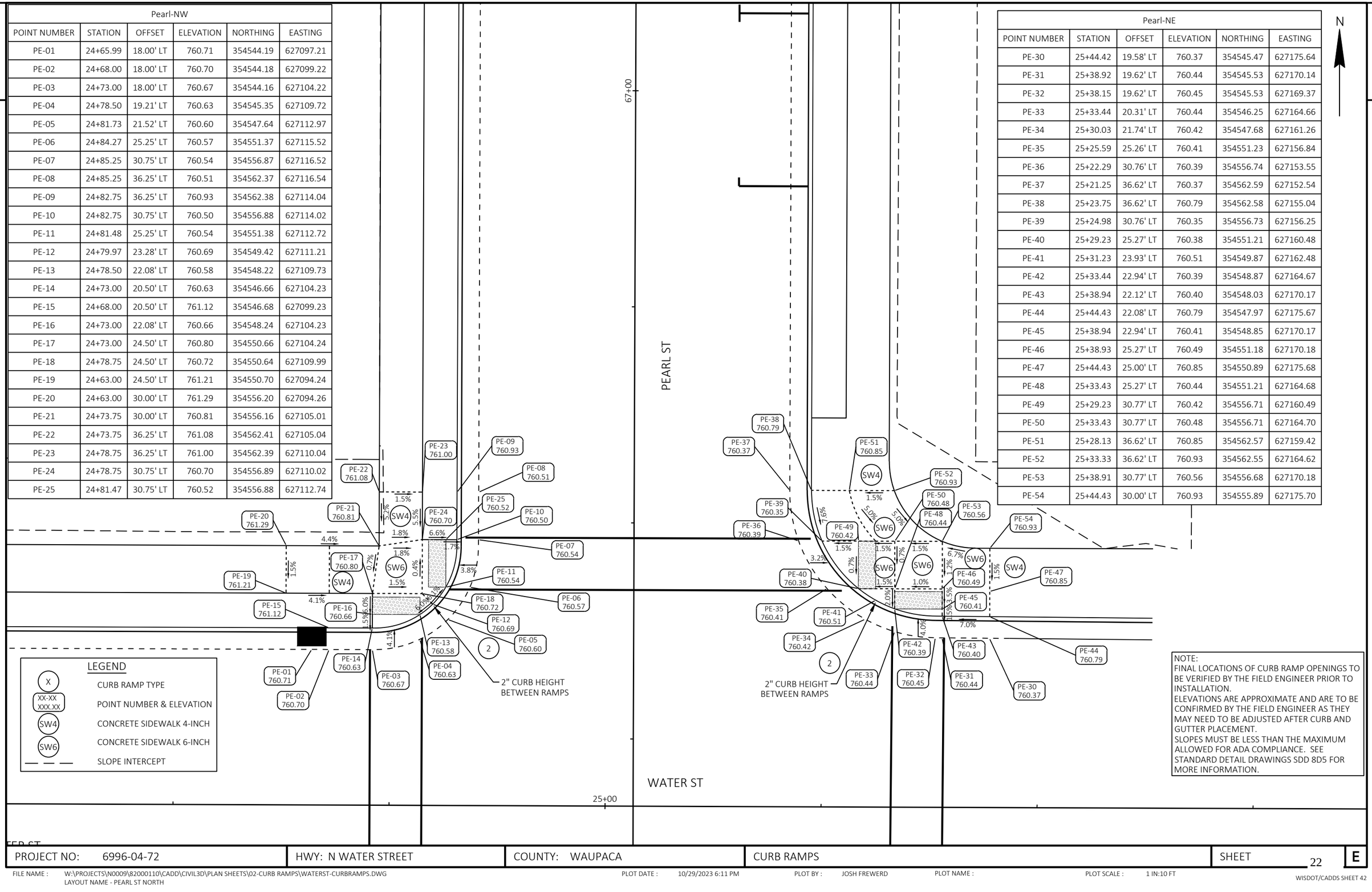
FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\02-CURB RAMPS\WATERST-CURBRAMPS.DWG
LAYOUT NAME - ST JOHN'S ST NORTH
PLOT DATE : 10/29/2023 6:11 PM PLOT BY : JOSH FREWERD PLOT NAME : PLOT SCALE : 1 IN:10 FT



StJohns-SE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
SJ-50	22+24.00	18.00' RT	760.08	354509.11	626855.09
SJ-51	22+29.00	18.00' RT	760.10	354509.09	626860.09
SJ-52	22+34.00	18.00' RT	760.12	354509.07	626865.09
SJ-53	22+39.50	18.00' RT	760.14	354509.05	626870.59
SJ-54	22+47.50	18.00' RT	760.17	354509.02	626878.59
SJ-55	22+24.00	20.50' RT	760.04	354506.61	626855.08
SJ-56	22+29.00	20.50' RT	760.35	354506.59	626860.08
SJ-57	22+34.00	20.50' RT	760.08	354506.57	626865.08
SJ-58	22+39.50	20.50' RT	760.10	354506.55	626870.58
SJ-59	22+47.50	20.50' RT	760.59	354506.52	626878.58
SJ-60	22+24.00	24.50' RT	760.27	354502.61	626855.06
SJ-61	22+29.00	24.50' RT	760.45	354502.59	626860.06
SJ-62	22+34.00	24.50' RT	760.28	354502.57	626865.06
SJ-63	22+39.50	24.50' RT	760.30	354502.55	626870.56
SJ-64	22+47.50	24.50' RT	760.65	354502.52	626878.56
SJ-65	22+24.00	30.00' RT	760.35	354497.11	626855.04
SJ-66	22+29.00	30.00' RT	760.53	354497.09	626860.04
SJ-67	22+34.00	30.00' RT	760.36	354497.07	626865.04
SJ-68	22+39.50	30.00' RT	760.38	354497.05	626870.54
SJ-69	22+47.50	30.00' RT	760.73	354497.02	626878.54

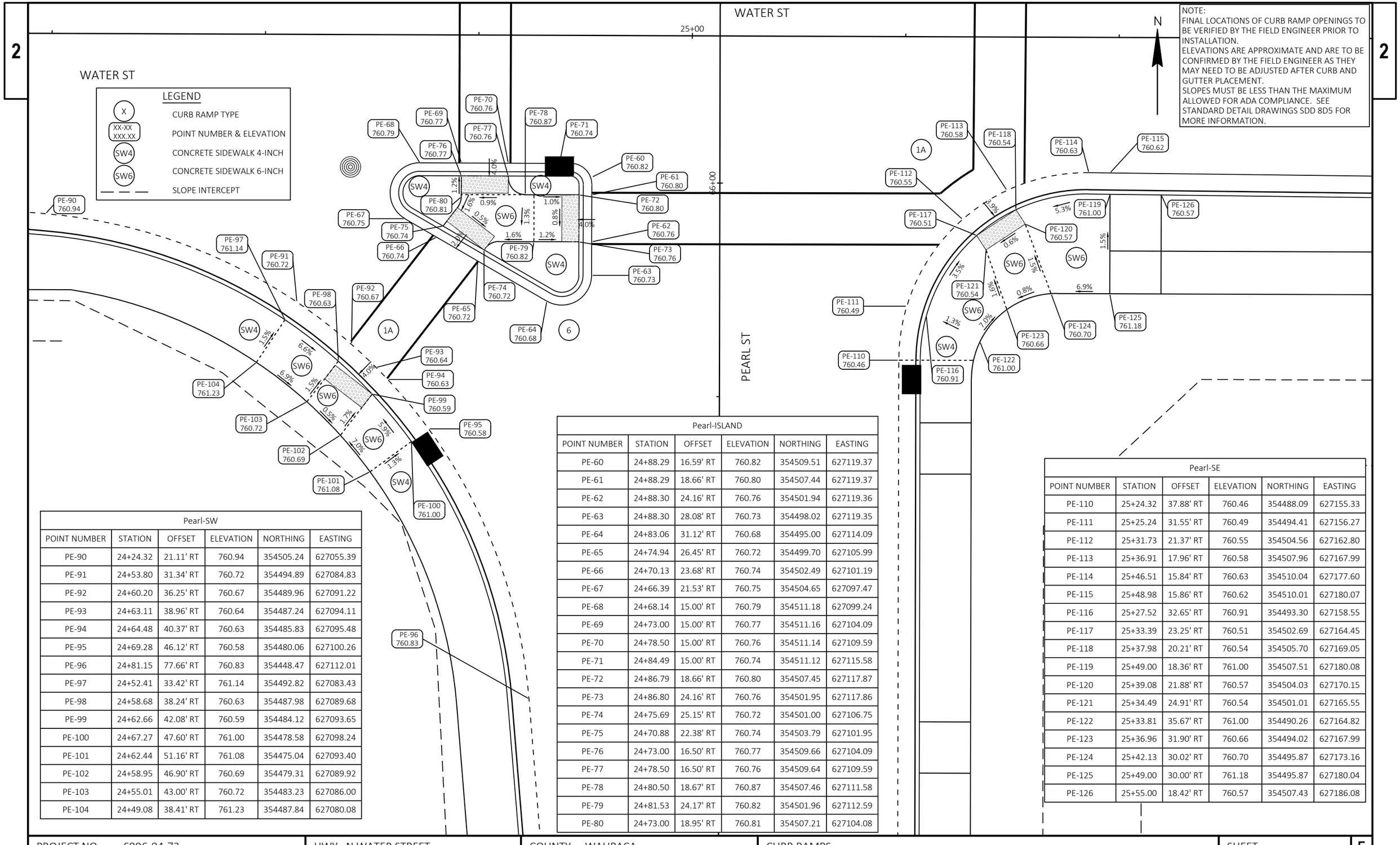
Pearl-NW					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
PE-01	24+65.99	18.00' LT	760.71	354544.19	627097.21
PE-02	24+68.00	18.00' LT	760.70	354544.18	627099.22
PE-03	24+73.00	18.00' LT	760.67	354544.16	627104.22
PE-04	24+78.50	19.21' LT	760.63	354545.35	627109.72
PE-05	24+81.73	21.52' LT	760.60	354547.64	627112.97
PE-06	24+84.27	25.25' LT	760.57	354551.37	627115.52
PE-07	24+85.25	30.75' LT	760.54	354556.87	627116.52
PE-08	24+85.25	36.25' LT	760.51	354562.37	627116.54
PE-09	24+82.75	36.25' LT	760.93	354562.38	627114.04
PE-10	24+82.75	30.75' LT	760.50	354556.88	627114.02
PE-11	24+81.48	25.25' LT	760.54	354551.38	627112.72
PE-12	24+79.97	23.28' LT	760.69	354549.42	627111.21
PE-13	24+78.50	22.08' LT	760.58	354548.22	627109.73
PE-14	24+73.00	20.50' LT	760.63	354546.66	627104.23
PE-15	24+68.00	20.50' LT	761.12	354546.68	627099.23
PE-16	24+73.00	22.08' LT	760.66	354548.24	627104.23
PE-17	24+73.00	24.50' LT	760.80	354550.66	627104.24
PE-18	24+78.75	24.50' LT	760.72	354550.64	627109.99
PE-19	24+63.00	24.50' LT	761.21	354550.70	627094.24
PE-20	24+63.00	30.00' LT	761.29	354556.20	627094.26
PE-21	24+73.75	30.00' LT	760.81	354556.16	627105.01
PE-22	24+73.75	36.25' LT	761.08	354562.41	627105.04
PE-23	24+78.75	36.25' LT	761.00	354562.39	627110.04
PE-24	24+78.75	30.75' LT	760.70	354556.89	627110.02
PE-25	24+81.47	30.75' LT	760.52	354556.88	627112.74

Pearl-NE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
PE-30	25+44.42	19.58' LT	760.37	354545.47	627175.64
PE-31	25+38.92	19.62' LT	760.44	354545.53	627170.14
PE-32	25+38.15	19.62' LT	760.45	354545.53	627169.37
PE-33	25+33.44	20.31' LT	760.44	354546.25	627164.66
PE-34	25+30.03	21.74' LT	760.42	354547.68	627161.26
PE-35	25+25.59	25.26' LT	760.41	354551.23	627156.84
PE-36	25+22.29	30.76' LT	760.39	354556.74	627153.55
PE-37	25+21.25	36.62' LT	760.37	354562.59	627152.54
PE-38	25+23.75	36.62' LT	760.79	354562.58	627155.04
PE-39	25+24.98	30.76' LT	760.35	354556.73	627156.25
PE-40	25+29.23	25.27' LT	760.38	354551.21	627160.48
PE-41	25+31.23	23.93' LT	760.51	354549.87	627162.48
PE-42	25+33.44	22.94' LT	760.39	354548.87	627164.67
PE-43	25+38.94	22.12' LT	760.40	354548.03	627170.17
PE-44	25+44.43	22.08' LT	760.79	354547.97	627175.67
PE-45	25+38.94	22.94' LT	760.41	354548.85	627170.17
PE-46	25+38.93	25.27' LT	760.49	354551.18	627170.18
PE-47	25+44.43	25.00' LT	760.85	354550.89	627175.68
PE-48	25+33.43	25.27' LT	760.44	354551.21	627164.68
PE-49	25+29.23	30.77' LT	760.42	354556.71	627160.49
PE-50	25+33.43	30.77' LT	760.48	354556.71	627164.70
PE-51	25+28.13	36.62' LT	760.85	354562.57	627159.42
PE-52	25+33.33	36.62' LT	760.93	354562.55	627164.62
PE-53	25+38.91	30.77' LT	760.56	354556.68	627170.18
PE-54	25+44.43	30.00' LT	760.93	354555.89	627175.70



PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	CURB RAMPS	SHEET 22	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\02-CURB RAMPS\WATERST-CURBRAMPS.DWG
LAYOUT NAME - PEARL ST NORTH
PLOT DATE : 10/29/2023 6:11 PM PLOT BY : JOSH FREWERD PLOT NAME : PLOT SCALE : 1 IN:10 FT



Pearl-SW

POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
PE-90	24+24.32	21.11' RT	760.94	354505.24	627055.39
PE-91	24+53.80	31.34' RT	760.72	354494.89	627084.83
PE-92	24+60.20	36.25' RT	760.67	354489.96	627091.22
PE-93	24+63.11	38.96' RT	760.64	354487.24	627094.11
PE-94	24+64.48	40.37' RT	760.63	354485.83	627095.48
PE-95	24+69.28	46.12' RT	760.58	354480.06	627100.26
PE-96	24+81.15	77.66' RT	760.83	354448.47	627112.01
PE-97	24+52.41	33.42' RT	761.14	354492.82	627083.43
PE-98	24+58.68	38.24' RT	760.63	354487.98	627089.68
PE-99	24+62.66	42.08' RT	760.59	354484.12	627093.65
PE-100	24+67.27	47.60' RT	761.00	354478.58	627098.24
PE-101	24+62.44	51.16' RT	761.08	354475.04	627093.40
PE-102	24+58.95	46.90' RT	760.69	354479.31	627089.92
PE-103	24+55.01	43.00' RT	760.72	354483.23	627086.00
PE-104	24+49.08	38.41' RT	761.23	354487.84	627080.08

Pearl-ISLAND

POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
PE-60	24+88.29	16.59' RT	760.82	354509.51	627119.37
PE-61	24+88.29	18.66' RT	760.80	354507.44	627119.37
PE-62	24+88.30	24.16' RT	760.76	354501.94	627119.36
PE-63	24+88.30	28.08' RT	760.73	354498.02	627119.35
PE-64	24+83.06	31.12' RT	760.68	354495.00	627114.09
PE-65	24+74.94	26.45' RT	760.72	354499.70	627105.99
PE-66	24+70.13	23.68' RT	760.74	354502.49	627101.19
PE-67	24+66.39	21.53' RT	760.75	354504.65	627097.47
PE-68	24+68.14	15.00' RT	760.79	354511.18	627099.24
PE-69	24+73.00	15.00' RT	760.77	354511.16	627104.09
PE-70	24+78.50	15.00' RT	760.76	354511.14	627109.59
PE-71	24+84.49	15.00' RT	760.74	354511.12	627115.58
PE-72	24+86.79	18.66' RT	760.80	354507.45	627117.87
PE-73	24+86.80	24.16' RT	760.76	354501.95	627117.86
PE-74	24+75.69	25.15' RT	760.72	354501.00	627106.75
PE-75	24+70.88	22.38' RT	760.74	354503.79	627101.95
PE-76	24+73.00	16.50' RT	760.77	354509.66	627104.09
PE-77	24+78.50	16.50' RT	760.76	354509.64	627109.59
PE-78	24+80.50	18.67' RT	760.87	354507.46	627111.58
PE-79	24+81.53	24.17' RT	760.82	354501.96	627112.59
PE-80	24+73.00	18.95' RT	760.81	354507.21	627104.08

Pearl-SE

POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
PE-110	25+24.32	37.88' RT	760.46	354488.09	627155.33
PE-111	25+25.24	31.55' RT	760.49	354494.41	627156.27
PE-112	25+31.73	21.37' RT	760.55	354504.56	627162.80
PE-113	25+36.91	17.96' RT	760.58	354507.96	627167.99
PE-114	25+46.51	15.84' RT	760.63	354510.04	627177.60
PE-115	25+48.98	15.86' RT	760.62	354510.01	627180.07
PE-116	25+27.52	32.65' RT	760.91	354493.30	627158.55
PE-117	25+33.39	23.25' RT	760.51	354502.69	627164.45
PE-118	25+37.98	20.21' RT	760.54	354505.70	627169.05
PE-119	25+49.00	18.36' RT	761.00	354507.51	627180.08
PE-120	25+39.08	21.88' RT	760.57	354504.03	627170.15
PE-121	25+34.49	24.91' RT	760.54	354501.01	627165.55
PE-122	25+33.81	35.67' RT	761.00	354490.26	627164.82
PE-123	25+36.96	31.90' RT	760.66	354494.02	627167.99
PE-124	25+42.13	30.02' RT	760.70	354495.87	627173.16
PE-125	25+49.00	30.00' RT	761.18	354495.87	627180.04
PE-126	25+55.00	18.42' RT	760.57	354507.43	627186.08

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	CURB RAMPS	SHEET 23	E

Park-NW					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
PA-01	69+30.81	37.16' LT	759.70	354839.76	627098.36
PA-02	69+30.82	29.99' LT	759.65	354839.74	627105.53
PA-03	69+31.93	24.95' LT	759.59	354840.84	627110.57
PA-04	69+35.54	20.46' LT	759.52	354844.43	627115.08
PA-05	69+42.82	18.00' LT	759.43	354851.70	627117.56
PA-06	69+45.27	18.00' LT	759.42	354854.14	627117.57
PA-07	69+33.31	37.16' LT	760.12	354842.26	627098.37
PA-08	69+33.34	29.50' LT	759.75	354842.26	627106.02
PA-09	69+34.02	26.42' LT	759.56	354842.93	627109.11
PA-10	69+37.06	22.44' LT	759.48	354845.95	627113.09
PA-11	69+45.27	20.50' LT	759.84	354854.15	627115.07
PA-12	69+41.24	24.50' LT	759.57	354850.14	627111.05
PA-13	69+45.27	24.50' LT	759.85	354854.17	627111.07
PA-14	69+45.27	29.50' LT	759.92	354854.19	627106.07
PA-15	69+41.24	29.50' LT	759.66	354850.16	627106.05
PA-16	69+39.32	29.50' LT	759.65	354848.24	627106.04
PA-17	69+39.31	37.16' LT	760.19	354848.26	627098.38

Park-SW					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
PA-50	68+79.81	18.00' LT	759.44	354788.69	627117.34
PA-51	68+84.44	18.64' LT	759.46	354793.32	627116.71
PA-52	68+93.18	24.50' LT	759.49	354802.08	627110.88
PA-53	68+95.90	29.50' LT	759.51	354804.82	627105.89
PA-54	68+96.81	37.51' LT	759.54	354805.76	627097.88
PA-55	68+94.31	37.51' LT	759.96	354803.26	627097.88
PA-56	68+93.23	29.50' LT	759.47	354802.15	627105.88
PA-57	68+89.81	24.50' LT	759.44	354798.71	627110.87
PA-58	68+83.76	21.05' LT	759.88	354792.65	627114.30
PA-59	68+87.79	24.50' LT	759.47	354796.70	627110.86
PA-60	68+89.79	29.50' LT	759.53	354798.71	627105.87
PA-61	68+87.79	29.50' LT	759.56	354796.71	627105.86
PA-62	68+82.79	24.50' LT	759.56	354791.70	627110.85
PA-63	68+77.79	24.50' LT	759.91	354786.70	627110.83
PA-64	68+77.79	29.50' LT	759.99	354786.71	627105.83
PA-65	68+82.79	31.99' LT	759.70	354791.72	627103.36
PA-66	68+88.31	35.06' LT	759.86	354797.25	627100.31
PA-67	68+88.31	37.51' LT	760.03	354797.26	627097.86

Park-NE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
PA-25	69+25.49	18.00' RT	759.48	354834.24	627153.50
PA-26	69+28.82	18.00' RT	759.47	354837.57	627153.51
PA-27	69+34.32	18.00' RT	759.45	354843.07	627153.53
PA-28	69+39.32	18.00' RT	759.43	354848.07	627153.55
PA-29	69+44.82	18.00' RT	759.42	354853.57	627153.57
PA-30	69+28.82	20.50' RT	759.89	354837.56	627156.01
PA-31	69+34.32	20.50' RT	759.41	354843.06	627156.03
PA-32	69+39.32	20.50' RT	759.39	354848.06	627156.05
PA-33	69+44.82	20.50' RT	759.84	354853.56	627156.07
PA-34	69+44.82	24.50' RT	759.90	354853.55	627160.07
PA-35	69+39.32	24.50' RT	759.55	354848.05	627160.05
PA-36	69+34.32	24.50' RT	759.57	354843.05	627160.03
PA-37	69+28.82	24.50' RT	759.95	354837.55	627160.01
PA-38	69+28.82	29.50' RT	760.03	354837.53	627165.01
PA-39	69+34.32	29.50' RT	759.64	354843.03	627165.03
PA-40	69+39.32	29.50' RT	759.63	354848.03	627165.05
PA-41	69+44.82	29.50' RT	759.97	354853.53	627165.07

NOTE:
FINAL LOCATIONS OF CURB RAMP OPENINGS TO BE VERIFIED BY THE FIELD ENGINEER PRIOR TO INSTALLATION.
ELEVATIONS ARE APPROXIMATE AND ARE TO BE CONFIRMED BY THE FIELD ENGINEER AS THEY MAY NEED TO BE ADJUSTED AFTER CURB AND GUTTER PLACEMENT.
SLOPES MUST BE LESS THAN THE MAXIMUM ALLOWED FOR ADA COMPLIANCE. SEE STANDARD DETAIL DRAWINGS SDD 8D5 FOR MORE INFORMATION.

LEGEND

- X — CURB RAMP TYPE
- XX-XX / XXX.XX — POINT NUMBER & ELEVATION
- SW4 — CONCRETE SIDEWALK 4-INCH
- SW6 — CONCRETE SIDEWALK 6-INCH
- SLOPE INTERCEPT

PARK ST

PEARL ST

69+00

1A

2

7B

N

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	CURB RAMPS	SHEET 24	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\02-CURB RAMPS\WATERST-CURBRAMPS.DWG
LAYOUT NAME - PARK ST
PLOT DATE : 10/29/2023 6:12 PM PLOT BY : JOSH FREWERD PLOT NAME : PLOT SCALE : 1 IN:10 FT

2

N

STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
A	9+52.95	45.78 LT	100+45.72	47.12 LT	354578.657	625584.317	25'
B	9+56.18	44.00 RT	99+56.28	44.10 LT	354488.862	625587.150	25'
C	10+45.22	45.00 RT	99+54.70	44.92 RT	354487.449	625676.172	25'
D	10+79.06	61.89 LT	100+61.97	78.99 RT	354594.177	625710.518	40'
E	11+22.24	109.13 LT	101+09.25	122.13 RT	354641.206	625753.927	100'
F	10+18.53	30.08 LT	100+30.10	18.50 RT	354562.661	625649.841	2.5'
G	10+18.52	18.50 LT	100+18.52	18.50 RT	354551.077	625649.774	2.5'
H	10+38.55	18.50 LT	100+18.54	38.53 RT	354550.981	625669.804	2.5'

SHAWANO ST

WATER ST

STA 10+74.41, 22.50' RT

3' x 8' TREE GRATE (TYP)

TERRACE CONCRETE LEGEND

STAMPED COLORED CONCRETE

COLORED CONCRETE

SPOT ELEVATIONS SHOWN ARE FINISHED GRADES AT THE REFERENCE LINE AND EDGE OF PAVEMENT. SPOT ELEVATIONS ARE LOCATED AT 25' INTERVALS, PI'S, PVI'S, CL-CL'S, MATCH POINTS, AROUND RADII, AND AT INLET LOCATIONS.

THE CONTRACTOR IS TO VERIFY MATCH POINT GRADES PRIOR TO GRADING AND PAVING OPERATIONS.

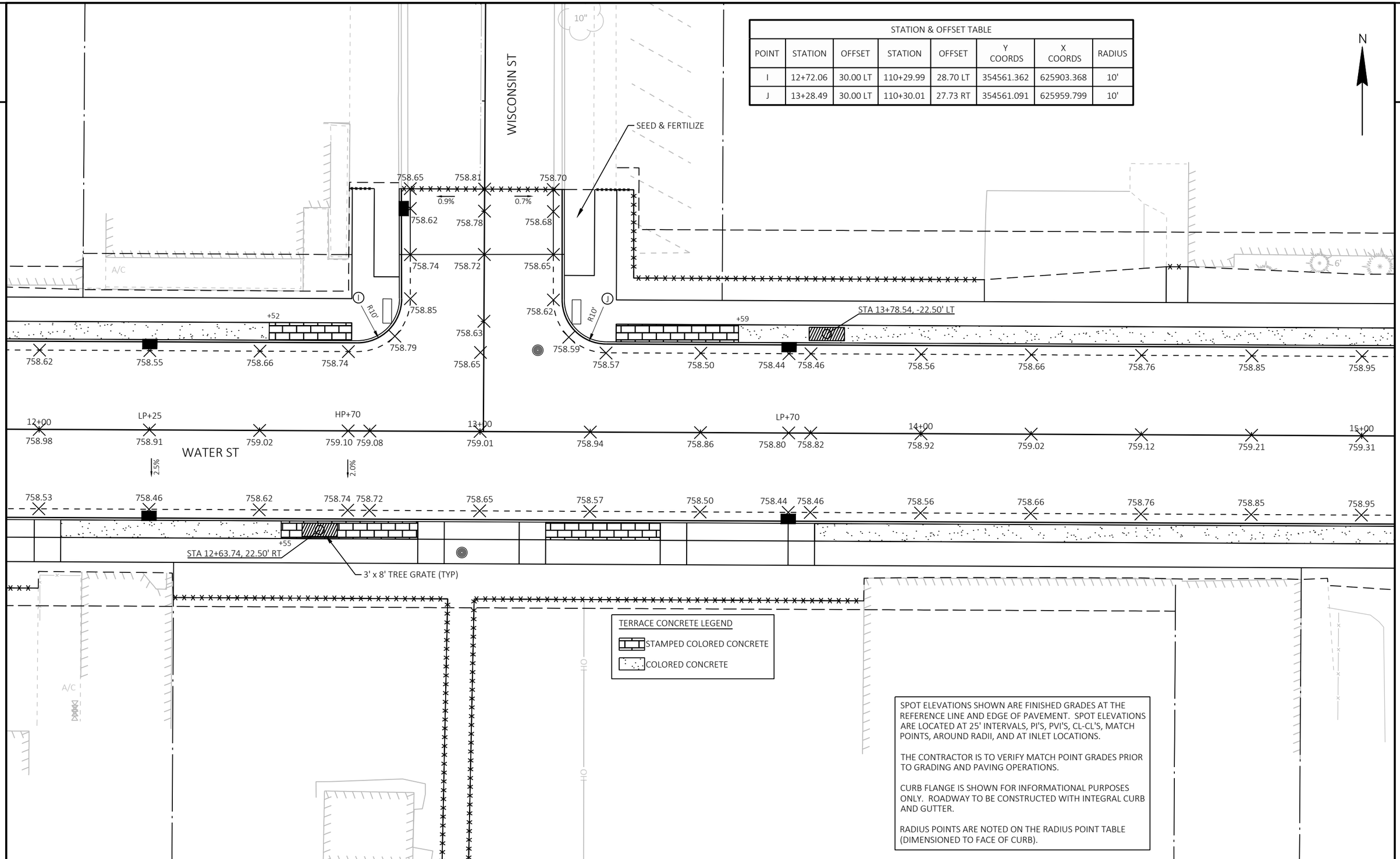
CURB FLANGE IS SHOWN FOR INFORMATIONAL PURPOSES ONLY. ROADWAY TO BE CONSTRUCTED WITH INTEGRAL CURB AND GUTTER.

RADIUS POINTS ARE NOTED ON THE RADIUS POINT TABLE (DIMENSIONED TO FACE OF CURB).

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	PAVING DETAILS	SHEET 25	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\02-PAVING DETAILS\WATERST-PD.DWG
LAYOUT NAME - 01
PLOT DATE : 10/29/2023 6:29 PM PLOT BY : JOSH FREWERD PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42

STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
I	12+72.06	30.00 LT	110+29.99	28.70 LT	354561.362	625903.368	10'
J	13+28.49	30.00 LT	110+30.01	27.73 RT	354561.091	625959.799	10'



SPOT ELEVATIONS SHOWN ARE FINISHED GRADES AT THE REFERENCE LINE AND EDGE OF PAVEMENT. SPOT ELEVATIONS ARE LOCATED AT 25' INTERVALS, PI'S, PVI'S, CL-CL'S, MATCH POINTS, AROUND RADII, AND AT INLET LOCATIONS.

THE CONTRACTOR IS TO VERIFY MATCH POINT GRADES PRIOR TO GRADING AND PAVING OPERATIONS.

CURB FLANGE IS SHOWN FOR INFORMATIONAL PURPOSES ONLY. ROADWAY TO BE CONSTRUCTED WITH INTEGRAL CURB AND GUTTER.

RADIUS POINTS ARE NOTED ON THE RADIUS POINT TABLE (DIMENSIONED TO FACE OF CURB).

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	PAVING DETAILS	SHEET 26	E

STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
K	15+69.76	30.00 LT	110+30.09	269.00 RT	354559.935	626201.068	10'
L	16+36.77	35.00 LT	110+35.11	336.00 RT	354564.614	626268.093	15'

N

STATE ST

758.59 758.98 758.78
2.1% 1.1%
758.56 758.95
758.63 758.92 758.74
758.70
758.81 758.81
758.79
758.76
758.72 758.68 758.67 758.68 758.74 758.87 759.05 759.14 759.23 759.31
758.95 759.05 759.15 759.03 758.92
+43 +69
R10' R15'
K L
6' 6'

2.0% HP+50
3.0% LP+42

15+00 16+00 17+00 18+00
759.31 759.41 759.51 759.41 759.31 759.23 759.21 759.22 759.28 759.41 759.59 759.68 759.77 759.85

WATER ST

758.95 759.05 759.15 759.05 758.95 758.87 758.85 758.86 758.92 759.05 759.23 759.32 759.41 759.49
+46 +90 +29 +91

TERRACE CONCRETE LEGEND
STAMPED COLORED CONCRETE
COLORED CONCRETE

CONCRETE CURB TYPE D

CONCRETE CURB & GUTTER
24-INCH TYPE D

SPOT ELEVATIONS SHOWN ARE FINISHED GRADES AT THE REFERENCE LINE AND EDGE OF PAVEMENT. SPOT ELEVATIONS ARE LOCATED AT 25' INTERVALS, PI'S, PVI'S, CL-CL'S, MATCH POINTS, AROUND RADII, AND AT INLET LOCATIONS.

THE CONTRACTOR IS TO VERIFY MATCH POINT GRADES PRIOR TO GRADING AND PAVING OPERATIONS.

CURB FLANGE IS SHOWN FOR INFORMATIONAL PURPOSES ONLY. ROADWAY TO BE CONSTRUCTED WITH INTEGRAL CURB AND GUTTER.

RADIUS POINTS ARE NOTED ON THE RADIUS POINT TABLE (DIMENSIONED TO FACE OF CURB).

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	PAVING DETAILS	SHEET 27	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\02-PAVING DETAILS\WATERST-PD.DWG
LAYOUT NAME - 03
PLOT DATE : 10/29/2023 6:29 PM PLOT BY : JOSH FREWERD PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42

2

2

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
M	19+00.82	10.00 LT	354538.349	626532.021	10'
N	19+15.10	24.00 LT	354552.280	626546.372	10'
O	19+87.39	24.00 LT	354552.006	626618.640	10'
P	20+01.68	10.00 LT	354537.952	626632.871	10'
Q	19+53.11	10.00 RT	354518.136	626584.226	10'
R	19+67.39	24.00 RT	354504.082	626598.457	10'
S	19+87.39	24.00 RT	354504.006	626618.457	10'
T	20+01.68	10.00 RT	354517.952	626632.795	10'

N

CONCRETE CURB & GUTTER, INTEGRAL 36-INCH TYPE D (THROUGH BUMPOUT AREA)

759.31 759.39 759.47 759.39 759.32 LP M 759.45 759.42 759.35 759.30 759.34 759.40 759.27 LP P 759.38 759.49 759.60 759.71

18+00 759.85 759.93 HP+50 760.01 759.93 19+00 759.86 759.78 759.71 759.66 LP+65 759.70 20+00 759.81 759.92 760.03 760.14 21+00 760.25

759.49 759.57 759.65 759.57 759.50 759.42 LP 759.35 Q R10' R R10' S 759.43 759.46 759.52 T R10' LP 759.45 759.56 759.67 759.78 759.89

12' 12'

N WATER ST

CONCRETE CURB & GUTTER, INTEGRAL 36-INCH TYPE D (THROUGH BUMPOUT AREA)

TERRACE CONCRETE LEGEND

STAMPED COLORED CONCRETE

COLORED CONCRETE

SPOT ELEVATIONS SHOWN ARE FINISHED GRADES AT THE REFERENCE LINE AND EDGE OF PAVEMENT. SPOT ELEVATIONS ARE LOCATED AT 25' INTERVALS, PI'S, PVI'S, CL-CL'S, MATCH POINTS, AROUND RADII, AND AT INLET LOCATIONS.

THE CONTRACTOR IS TO VERIFY MATCH POINT GRADES PRIOR TO GRADING AND PAVING OPERATIONS.

CURB FLANGE IS SHOWN FOR INFORMATIONAL PURPOSES ONLY. ROADWAY TO BE CONSTRUCTED WITH INTEGRAL CURB AND GUTTER.

RADIUS POINTS ARE NOTED ON THE RADIUS POINT TABLE (DIMENSIONED TO FACE OF CURB).

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	PAVING DETAILS	SHEET 28	E

2

STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
U	21+81.24	30.00 LT	110+30.56	880.45 RT	354557.269	626812.512	10'
V	22+36.24	30.00 LT	110+30.63	935.45 RT	354557.060	626867.512	10'

N

ST. JOHN'S PL

N WATER ST

759.65 760.15 759.54
3.2% 3.9%
759.62 760.09 759.51
759.72 759.99 759.68
759.81 759.85
759.82
759.78 759.90
U V
R10' R10'
+38 +75
759.71 759.78 759.75 759.67 759.66 759.73 759.75 759.82 759.91 759.95 760.00 760.08 760.17 760.26 760.35 760.48 760.63

3.0%

21+00 HP+15 LP+55 22+00 23+00 24+00
760.25 760.32 760.29 760.22 760.20 760.27 760.36 760.39 760.45 760.54 760.62 760.71 760.80 760.89 760.98 761.06

2.0%

759.89 759.96 759.93 759.85 759.84 759.91 760.00 760.09 760.18 760.26 760.35 760.44 760.57 760.71 760.76 760.84
+66 +43

STA 22+58.98, 22.50' RT
3' x 8' TREE GRATE (TYP)

TERRACE CONCRETE LEGEND
STAMPED COLORED CONCRETE
COLORED CONCRETE

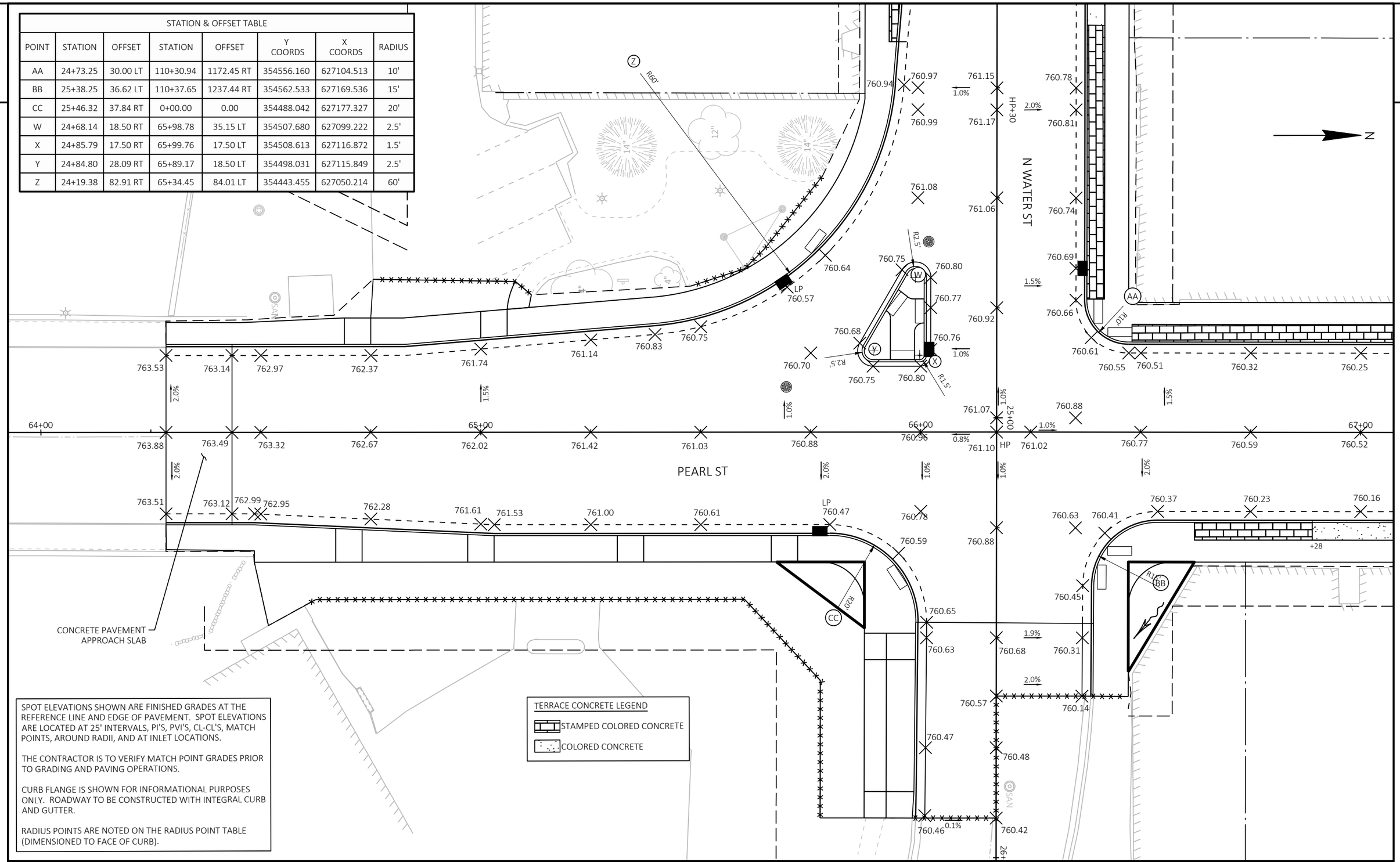
SPOT ELEVATIONS SHOWN ARE FINISHED GRADES AT THE REFERENCE LINE AND EDGE OF PAVEMENT. SPOT ELEVATIONS ARE LOCATED AT 25' INTERVALS, PI'S, PVI'S, CL-CL'S, MATCH POINTS, AROUND RADII, AND AT INLET LOCATIONS.

THE CONTRACTOR IS TO VERIFY MATCH POINT GRADES PRIOR TO GRADING AND PAVING OPERATIONS.

CURB FLANGE IS SHOWN FOR INFORMATIONAL PURPOSES ONLY. ROADWAY TO BE CONSTRUCTED WITH INTEGRAL CURB AND GUTTER.

RADIUS POINTS ARE NOTED ON THE RADIUS POINT TABLE (DIMENSIONED TO FACE OF CURB).

STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
AA	24+73.25	30.00 LT	110+30.94	1172.45 RT	354556.160	627104.513	10'
BB	25+38.25	36.62 LT	110+37.65	1237.44 RT	354562.533	627169.536	15'
CC	25+46.32	37.84 RT	0+00.00	0.00	354488.042	627177.327	20'
W	24+68.14	18.50 RT	65+98.78	35.15 LT	354507.680	627099.222	2.5'
X	24+85.79	17.50 RT	65+99.76	17.50 LT	354508.613	627116.872	1.5'
Y	24+84.80	28.09 RT	65+89.17	18.50 LT	354498.031	627115.849	2.5'
Z	24+19.38	82.91 RT	65+34.45	84.01 LT	354443.455	627050.214	60'



SPOT ELEVATIONS SHOWN ARE FINISHED GRADES AT THE REFERENCE LINE AND EDGE OF PAVEMENT. SPOT ELEVATIONS ARE LOCATED AT 25' INTERVALS, PI'S, PVI'S, CL-CL'S, MATCH POINTS, AROUND RADII, AND AT INLET LOCATIONS.

THE CONTRACTOR IS TO VERIFY MATCH POINT GRADES PRIOR TO GRADING AND PAVING OPERATIONS.

CURB FLANGE IS SHOWN FOR INFORMATIONAL PURPOSES ONLY. ROADWAY TO BE CONSTRUCTED WITH INTEGRAL CURB AND GUTTER.

RADIUS POINTS ARE NOTED ON THE RADIUS POINT TABLE (DIMENSIONED TO FACE OF CURB).

TERRACE CONCRETE LEGEND

STAMPED COLORED CONCRETE

COLORED CONCRETE

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	PAVING DETAILS	SHEET 30	E

STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
DD	24+68.19	262.57 LT	0+00.00	0.00	354788.752	627100.336	15'
EE	24+73.17	325.58 LT	0+00.00	0.00	354851.738	627105.559	10'

PARK ST

759.69 760.33 759.98

759.57 759.94 759.80

759.54 759.69

DD 759.52 759.70 EE

759.65

STA 68+25.53, -22.50' LT

+79 R15' 759.48 759.49 R10' +79

759.54

760.25 760.17 760.10 759.93 759.77 759.60 759.53 759.44 759.52 759.48 759.43 759.41 759.33 759.26

LP

1.5% 3.0% 3.0% 2.0%

67+00 68+00 69+00 70+00

760.52 760.44 760.37 760.29 760.22 760.14 760.07 759.99 759.92 759.88 759.84 759.77 759.69 759.62

PEARL ST

PEARL ST

760.16 760.08 760.01 759.93 759.86 759.78 759.71 759.63 759.56 759.48 759.41 759.33 759.26

STA 68+37.52, 22.51' RT

3' x 8' TREE GRATE (TYP)

+28 +28

N

TERRACE CONCRETE LEGEND

STAMPED COLORED CONCRETE

COLORED CONCRETE

SPOT ELEVATIONS SHOWN ARE FINISHED GRADES AT THE REFERENCE LINE AND EDGE OF PAVEMENT. SPOT ELEVATIONS ARE LOCATED AT 25' INTERVALS, PI'S, PVI'S, CL-CL'S, MATCH POINTS, AROUND RADII, AND AT INLET LOCATIONS.

THE CONTRACTOR IS TO VERIFY MATCH POINT GRADES PRIOR TO GRADING AND PAVING OPERATIONS.

CURB FLANGE IS SHOWN FOR INFORMATIONAL PURPOSES ONLY. ROADWAY TO BE CONSTRUCTED WITH INTEGRAL CURB AND GUTTER.

RADIUS POINTS ARE NOTED ON THE RADIUS POINT TABLE (DIMENSIONED TO FACE OF CURB).

2

PARK ST

149+00

759.69 760.33 759.98

759.57 759.94 759.80

759.54

759.69

759.52 759.70

759.65

759.48 759.49

759.44

LP

759.52

759.48 759.43 759.41 759.33 759.26 759.19 759.12

759.08 759.06

759.00

759.32

759.44

759.38

759.39

759.41

759.29

758.99 758.90

759.02

759.05

759.11

759.47

759.54

759.62

759.69

759.77

759.84

759.88

759.92

759.99

759.63 759.56 759.48 759.41 759.33 759.26 759.18

758.66

72+00

71+00

70+00

69+00

+79

+28

R15'

R10'

R102'

R20'

3.0%

2.0%

1.0%

0.9%

0.7%

5.0%

CONCRETE CURB TYPE D

FF

EE

DD

GG

PEARL ST

W WAUPACA ST

E WAUPACA ST

GRATE (TYP)

N

GV

SAN

LP

26"

TERRACE CONCRETE LEGEND

STAMPED COLORED CONCRETE

COLORED CONCRETE

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
FF	23+81.15	401.86 LT	354928.363	627013.829	102'
GG	25+19.30	483.38 LT	355009.366	627152.286	20'

SPOT ELEVATIONS SHOWN ARE FINISHED GRADES AT THE REFERENCE LINE AND EDGE OF PAVEMENT. SPOT ELEVATIONS ARE LOCATED AT 25' INTERVALS, PI'S, PVI'S, CL-CL'S, MATCH POINTS, AROUND RADII, AND AT INLET LOCATIONS.

THE CONTRACTOR IS TO VERIFY MATCH POINT GRADES PRIOR TO GRADING AND PAVING OPERATIONS.

CURB FLANGE IS SHOWN FOR INFORMATIONAL PURPOSES ONLY. ROADWAY TO BE CONSTRUCTED WITH INTEGRAL CURB AND GUTTER.

RADIUS POINTS ARE NOTED ON THE RADIUS POINT TABLE (DIMENSIONED TO FACE OF CURB).

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	PAVING DETAILS	SHEET 32	E

2

SHAWANO ST

WISCONSIN ST

N

9+00 10+00 11+00 12+00 13+00 14+00

WATER ST

WOLF RIVER

LEGEND

- SILT FENCE
- A INLET PROTECTION TYPE
- SOD LAWN
- TEMPORARY DITCH CHECK
- RIPRAP MEDIUM, GEOTEXTILE HR

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	EROSION CONTROL	SHEET 33	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\02-EC\WATERST-EC.DWG
LAYOUT NAME - 01

PLOT DATE : 12/6/2023 8:38 AM PLOT BY : JOSH FREWERD PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

STATE ST

WATER ST

15+00 16+00 17+00 18+00 19+00 20+00

WOLF RIVER

LEGEND

- SILT FENCE
- A — INLET PROTECTION — TYPE
- SOD LAWN
- TEMPORARY DITCH CHECK

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	EROSION CONTROL	SHEET 34	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\02-EC\WATERST-EC.DWG
LAYOUT NAME - 02

PLOT DATE : 12/6/2023 8:38 AM PLOT BY : JOSH FREWERD PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

ST. JOHN'S PL

PEARL ST

N WATER ST

N WATER ST

WOLF RIVER

N

21+00 22+00 23+00 24+00 25+00 26+00

67+00 66+00 65+00

LEGEND

- SILT FENCE
- A INLET PROTECTION (TYPE)
- SOD LAWN
- TEMPORARY DITCH CHECK

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	EROSION CONTROL	SHEET 35	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\02-EC\WATERST-EC.DWG
LAYOUT NAME - 03

PLOT DATE : 12/6/2023 8:38 AM PLOT BY : JOSH FREWERD PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

PARK ST

WAUPACA ST

EMBARRASS RIVER

N

67+00

68+00

69+00

70+00

71+00

72+00

PEARL ST

WAUPACA ST

LEGEND

SILT FENCE

A INLET PROTECTION TYPE

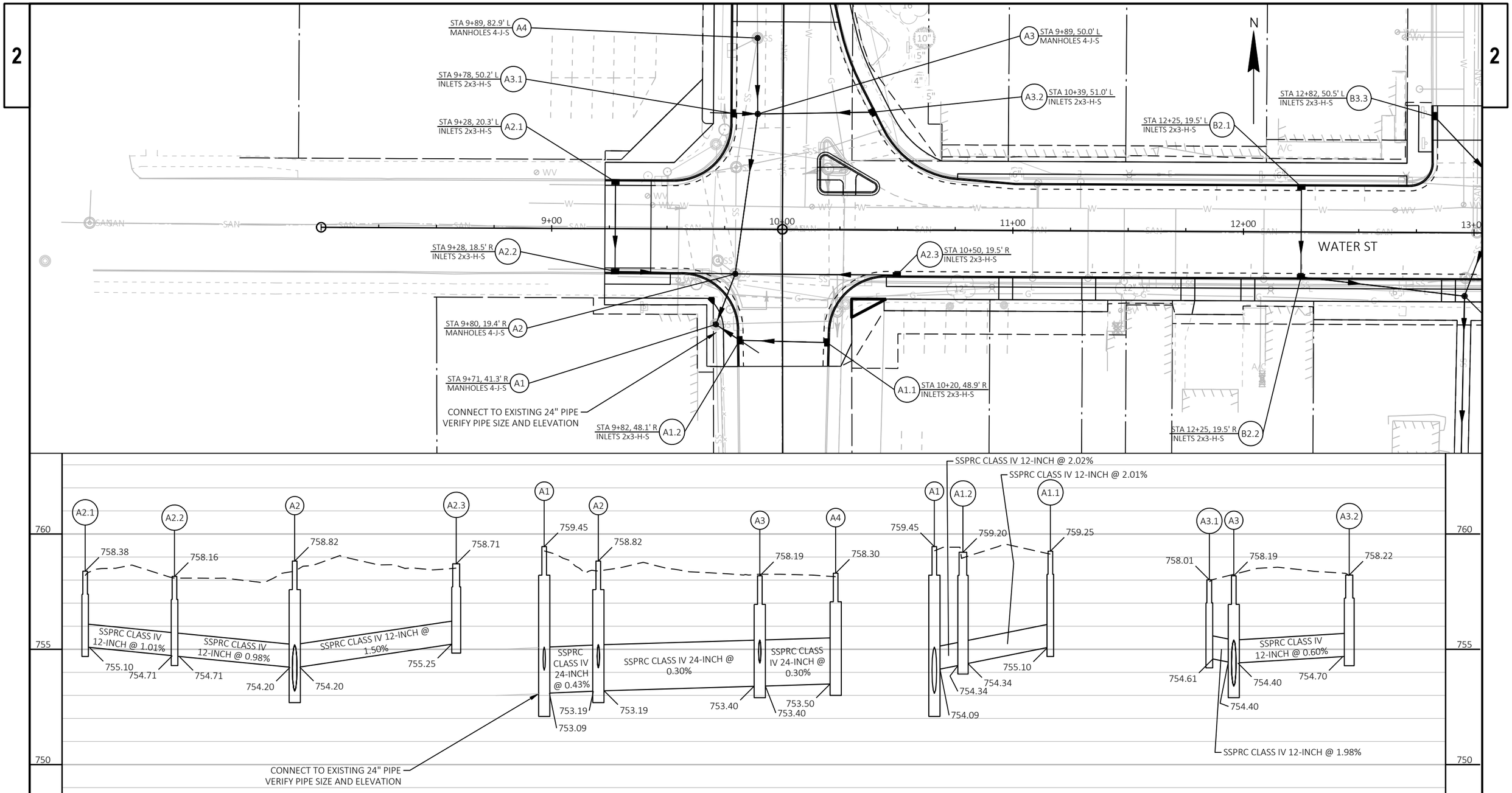
SOD LAWN

TEMPORARY DITCH CHECK

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	EROSION CONTROL	SHEET 36	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\02-EC\WATERST-EC.DWG
LAYOUT NAME - 04

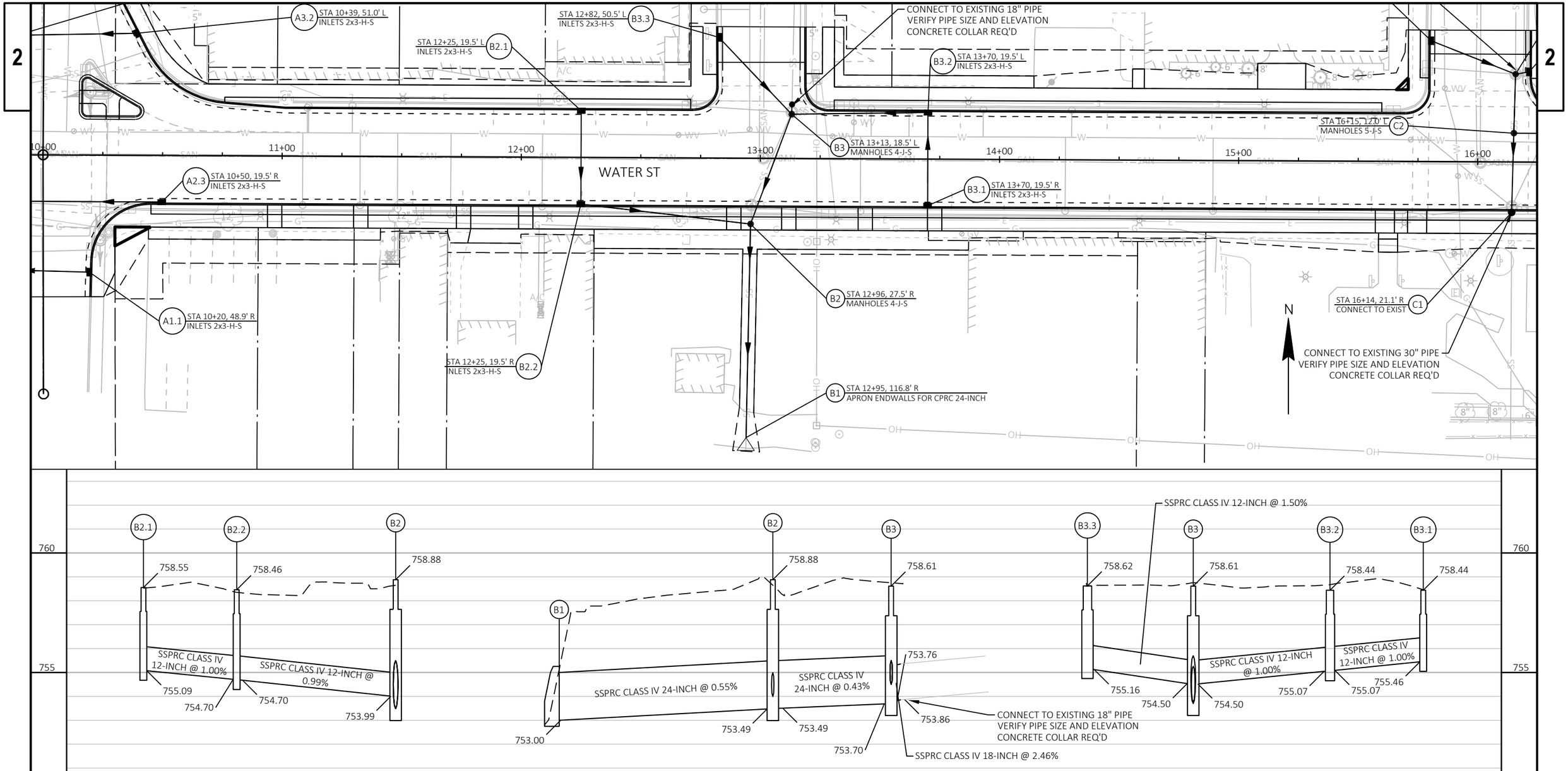
PLOT DATE : 12/6/2023 8:38 AM PLOT BY : JOSH FREWERD PLOT NAME : PLOT SCALE : 1 IN:40 FT



PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	STORM SEWER	SHEET 37	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\02-SS\02-SS.DWG
LAYOUT NAME - 01-SS

PLOT DATE : 10/29/2023 6:46 PM PLOT BY : JOSH FREWERD PLOT NAME : PLOT SCALE : 1 IN:40 FT



PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	STORM SEWER	SHEET 38	E

2

CONNECT TO EXISTING 24" PIPE
VERIFY PIPE SIZE AND ELEVATION

STA 15+80, 50.5' L
INLETS 2x3-H-S
C2.1

C2.2 STA 16+16, 36.7' L
MANHOLES 4-J-S

C2.3 STA 16+21, 37.7' L
INLETS 2x3-H-S

C3.1 STA 16+44, 19.5' L
INLETS 2x3-H-S

STORM SEWER
LATERAL 6-INCH
CONNECT TO
EXISTING PIPE

STA 19+41, 12.0' L
MANHOLES 4-C
C5

STA 18+99, 19.5' L
INLETS 2x3-H-S
C4.1

STA 18+99, 12.0' L
MANHOLES 4-J-S
C4

CONNECT TO
EXISTING 12" PIPE
VERIFY PIPE SIZE
AND ELEVATION

C6 STA 19+65, 13.5' L
INLETS 2x3-H-S

STORM SEWER
LATERAL 6-INCH
CONNECT TO
EXISTING PIPE

C7 STA 20+04, 19.5' L
INLETS 2x3-H-S

N

STA 16+15, 12.0' L
MANHOLES 5-J-S
C2

15+00 16+00 17+00 18+00 19+00 20+00

WATER ST

C3 STA 16+42, 12.0' L
MANHOLES 4-J-S

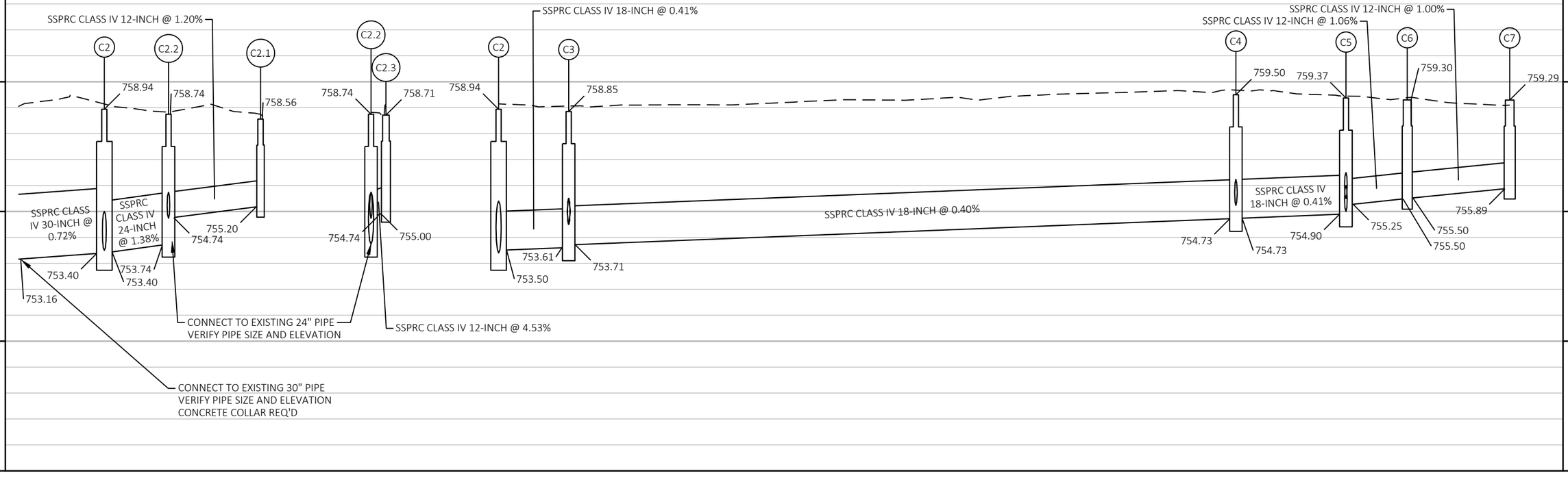
C3.2 STA 16+42, 19.5' R
INLETS 2x3-H-S

STA 16+14, 21.1' R
CONNECT TO EXIST
C1

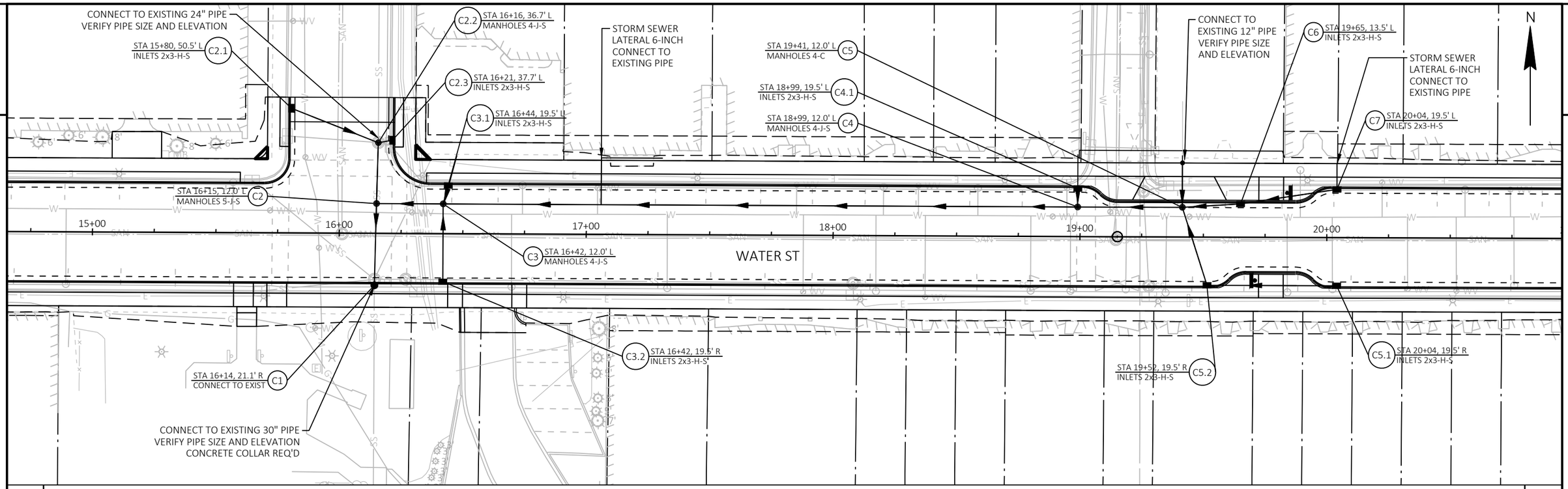
CONNECT TO EXISTING 30" PIPE
VERIFY PIPE SIZE AND ELEVATION
CONCRETE COLLAR REQ'D

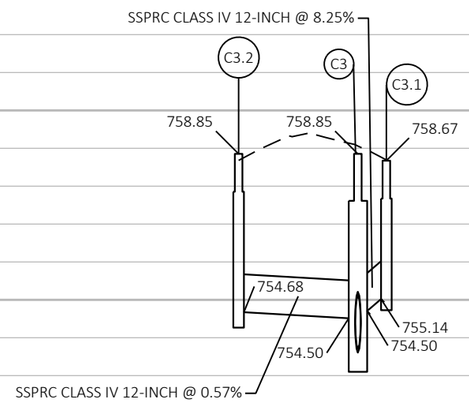
STA 19+52, 19.5' R
INLETS 2x3-H-S
C5.2

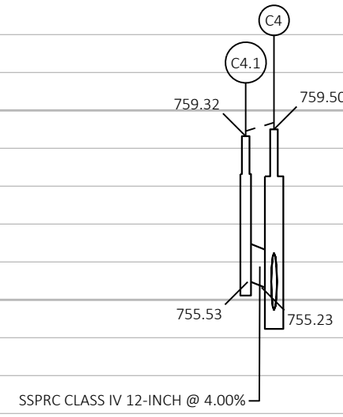
C5.1 STA 20+04, 19.5' R
INLETS 2x3-H-S

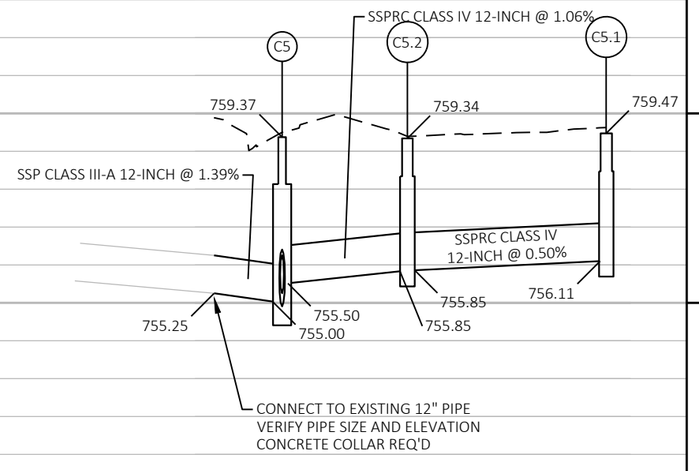


PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	STORM SEWER	SHEET 39	E



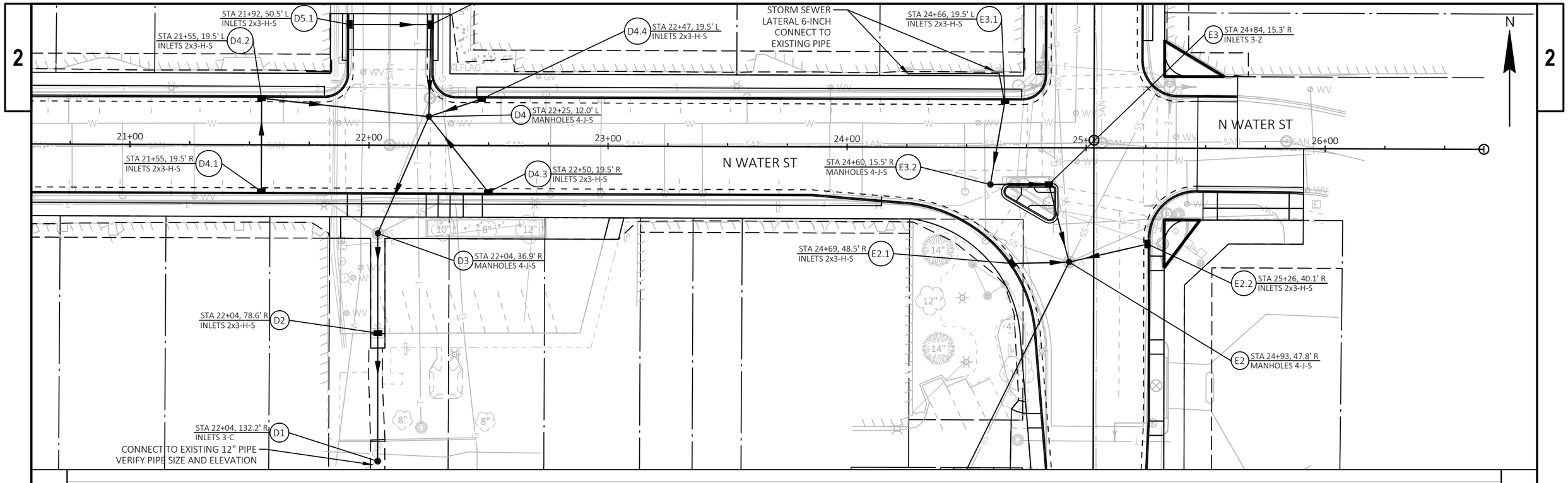


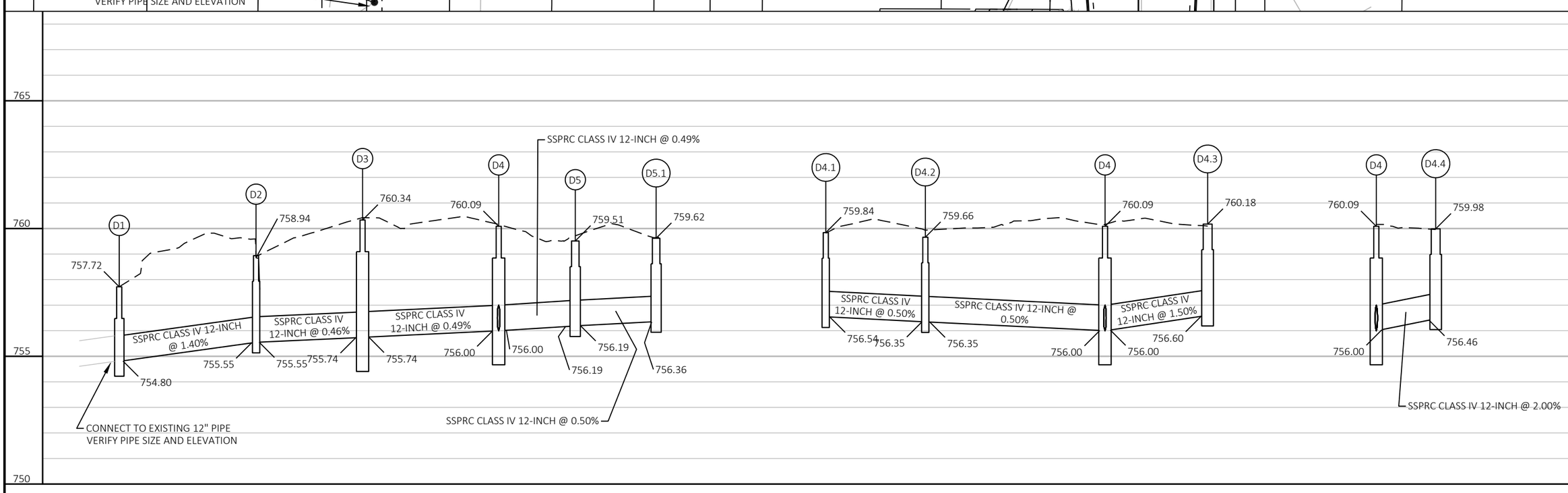




PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	STORM SEWER	SHEET 40	E

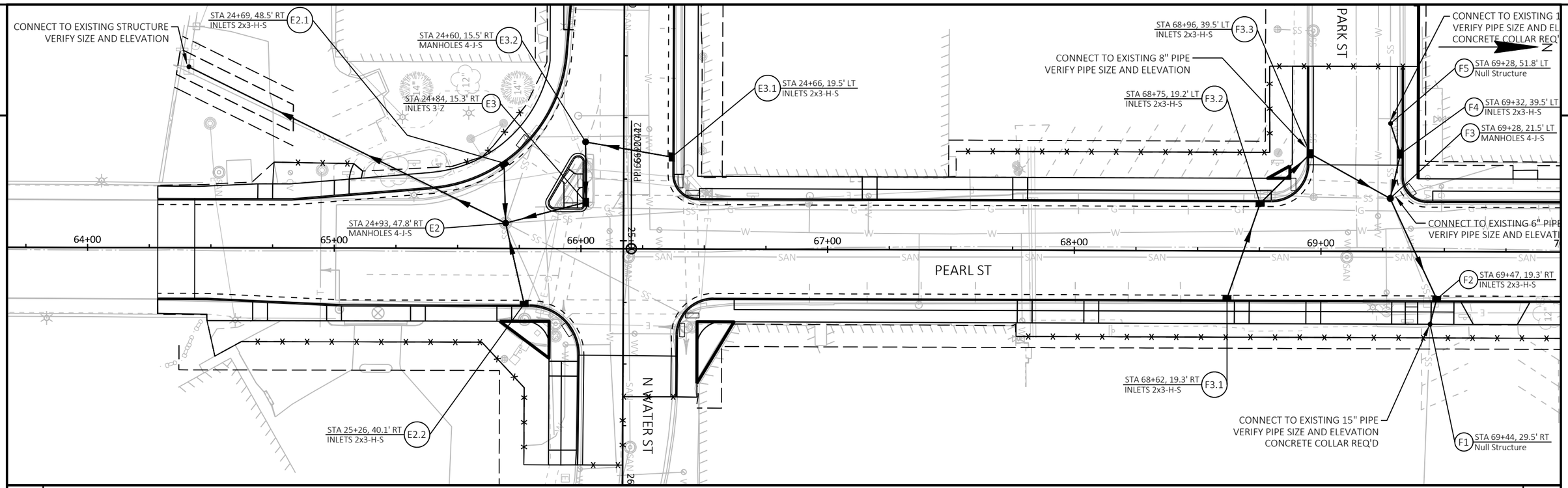
FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\02-SS\02-SS.DWG
LAYOUT NAME - 03-SS (2)
PLOT DATE : 10/29/2023 6:47 PM
PLOT BY : JOSH FREWERD
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

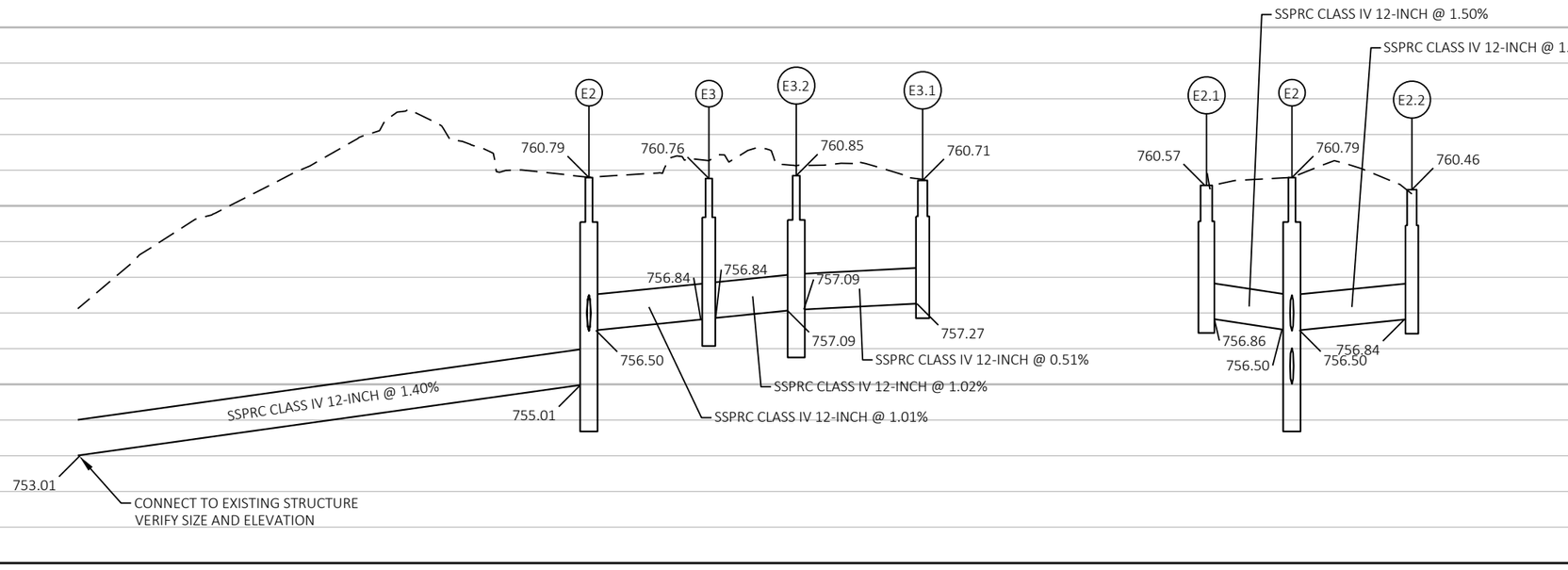




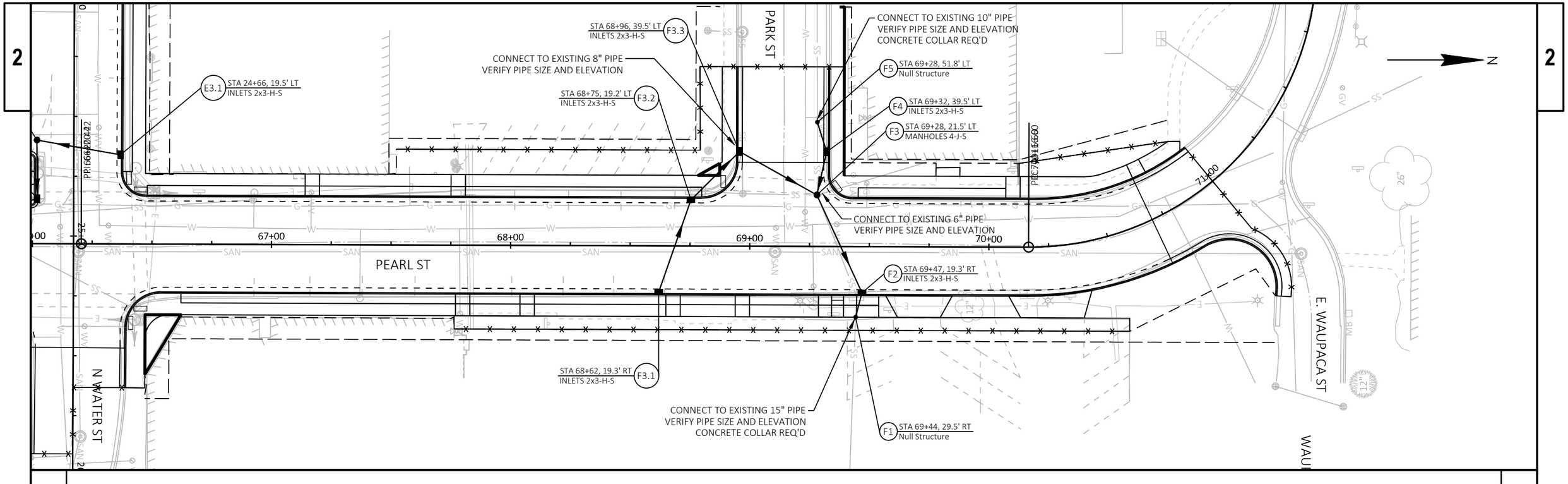
PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	STORM SEWER	SHEET 41	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\02-SS\02-SS.DWG
LAYOUT NAME - 04-SS
PLOT DATE : 10/29/2023 6:47 PM
PLOT BY : JOSH FREWERD
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 41





PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	STORM SEWER	SHEET 42	E



PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	STORM SEWER	SHEET 43	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\02-SS\02-SS PEARL.DWG
LAYOUT NAME - PEARL SS 02

PLOT DATE : 10/29/2023 6:47 PM PLOT BY : JOSH FREWERD PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON POLE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POLE
- CANTILEVER SIGN STRUCTURE
- X.X DENOTES PROPOSED SIGN NUMBER
- X.X DENOTES EXISTING SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

SHAWANO ST

WISCONSIN ST

WATER ST

WOLF RIVER

1.A REMOVE

1.1 R1-2 36"X31"

1.2 W12-1D 24"X24"

REMOVE N Shawano St REMOVE ONLY REMOVE

REMOVE ANCILLARY STRUCTURE

HWY 54 REMOVE

TWO HOUR PARKING REMOVE

1.3 BUSINESS M4-3 24"X12"

BUSINESS 45 REMOVE

1.4 45 M1-4 24"X24"

1.5 NO PARKING 3 AM TO 6 AM R7-2D 18"X24"

P PARKING REMOVE

NO PARKING 3 AM TO 6 AM REMOVE

TWO HOUR PARKING REMOVE

TWO HOUR PARKING REMOVE

ONLY R3-8xx 36"X30"

1.6

TWO HOUR PARKING REMOVE

NO PARKING ON THIS SIGN REMOVE

NO PARKING ON THIS SIGN R7-53D 18"X24"

1.8

WISCONSIN ST N WATER ST REMOVE

STOP REMOVE STOP R1-1 30"X30"

1.7

P PARKING REMOVE

NO PARKING 3 AM TO 6 AM REMOVE

TWO HOUR PARKING REMOVE

9+00 10+00 11+00 12+00 13+00 14+00

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	PERMANENT SIGNING	SHEET 44	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\02-SIGNING\WATERST-SIGNING.DWG
LAYOUT NAME - 01

PLOT DATE : 10/31/2023 1:58 PM PLOT BY : JOSH FREWERD PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

STATE ST

WATER ST

N

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON POLE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POLE
- CANTILEVER SIGN STRUCTURE
- X.X DENOTES PROPOSED SIGN NUMBER
- X.X DENOTES EXISTING SIGN NUMBER
- (X) INDICATES SIGN SIZE

STATE ST
N WATER ST
REMOVE

STOP STOP
REMOVE R1-1 30"X30"
2.1

NO PARKING
REMOVE

TWO HOUR PARKING
REMOVE

PARKING
REMOVE

NO PARKING
REMOVE

TWO HOUR PARKING
REMOVE

P ARKING D4-1 30"X24"
2.4

15+00 16+00 17+00 18+00 19+00 20+00

TWO HOUR PARKING
REMOVE

PARK CLOSED
REMOVE

PARKING
REMOVE

NO PARKING
REMOVE

2.2

STOP STOP
REMOVE R1-1 30"X30"

TWO HOUR PARKING
REMOVE

RRFB
(SEE CONSTRUCTION DETAIL)

NO PARKING
REMOVE

PARKING
REMOVE

P ARKING D4-1 30"X24"
2.3

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	PERMANENT SIGNING	SHEET 45	E

2

ST. JOHN'S PL

PEARL ST

N WATER ST

N WATER ST

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON POLE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POLE
- CANTILEVER SIGN STRUCTURE
- X.X DENOTES PROPOSED SIGN NUMBER
- X.X DENOTES EXISTING SIGN NUMBER
- (X) INDICATES SIGN SIZE

ST JOHNS PL
N WATER ST
REMOVE

PARKING
REMOVE

STOP STOP
REMOVE R1-1 30"X30"
3.1

NO PARKING ONE SIDE
REMOVE

TWO HOUR PARKING
REMOVE

REMOVE W12-1D 24"X24"
3.9

21+00 22+00 23+00 24+00 25+00 26+00

67+00 66+00 65+00

3.2 R3-8xx 36"X30" ONLY
3.3 D9-2 24"X24" H
3.4 M6-1 21"X21"
3.5 M4-3 24"X12" BUSINESS
3.6 M1-4 24"X24" 45
3.7 M1-5A 24"X24" COUNTY D
3.8 M6-1 21"X21"

DO NOT ENTER
REMOVE
PARK CLOSED 10 PM TO 6 AM
REMOVE

ONE WAY ONE WAY
REMOVE REMOVE

REMOVE ANCILLARY STRUCTURE

N Pearl St
REMOVE REMOVE ONLY REMOVE

BUSINESS 45 COUNTY D
REMOVE

3.10 R1-2 36"X31" YIELD
REMOVE YIELD

4.1 R3-8xx 36"X30" ONLY

4.2 M4-3 24"X12" BUSINESS
4.3 M1-4 24"X24" 45
4.4 M1-5A 24"X24" COUNTY D
4.5 M6-1 21"X21"

ONLY REMOVE
N Water St REMOVE
REMOVE

REMOVE ANCILLARY STRUCTURE

BUSINESS REMOVE
45 REMOVE
COUNTY D REMOVE
REMOVE

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	PERMANENT SIGNING	SHEET 46	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\02-SIGNING\WATERST-SIGNING.DWG
LAYOUT NAME - 03

PLOT DATE : 10/31/2023 1:58 PM PLOT BY : JOSH FREWERD PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

WAUPACA ST

PARK ST

PEARL ST

68+00

69+00

70+00

71+00

72+00

PARK ST
N PEARL ST
REMOVE

4.6

STOP
REMOVE

STOP
R1-1
30"X30"

PARKING
REMOVE

REMOVE

PARK ST
N PEARL ST
REMOVE

NO PARKING ON THIS SIDE
REMOVE

WAUPACA ST

26"

12"

12"

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON POLE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POLE
- CANTILEVER SIGN STRUCTURE
- X.X DENOTES PROPOSED SIGN NUMBER
- X.X DENOTES EXISTING SIGN NUMBER
- (X) INDICATES SIGN SIZE

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	PERMANENT SIGNING	SHEET 47	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\02-SIGNING\WATERST-SIGNING.DWG
LAYOUT NAME - 04

PLOT DATE : 10/31/2023 1:58 PM PLOT BY : JOSH FREWERD PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

SHAWANO ST

WISCONSIN ST

WATER ST

WOLF RIVER

CC02
CONTROL CABINET WITH
METER BREAKER PEDESTAL

PB06

PB07

LP16

LP17

LP18

LP19

LP20

9+00

10+00

11+00

12+00

13+00

14+00

16"

10"

4"

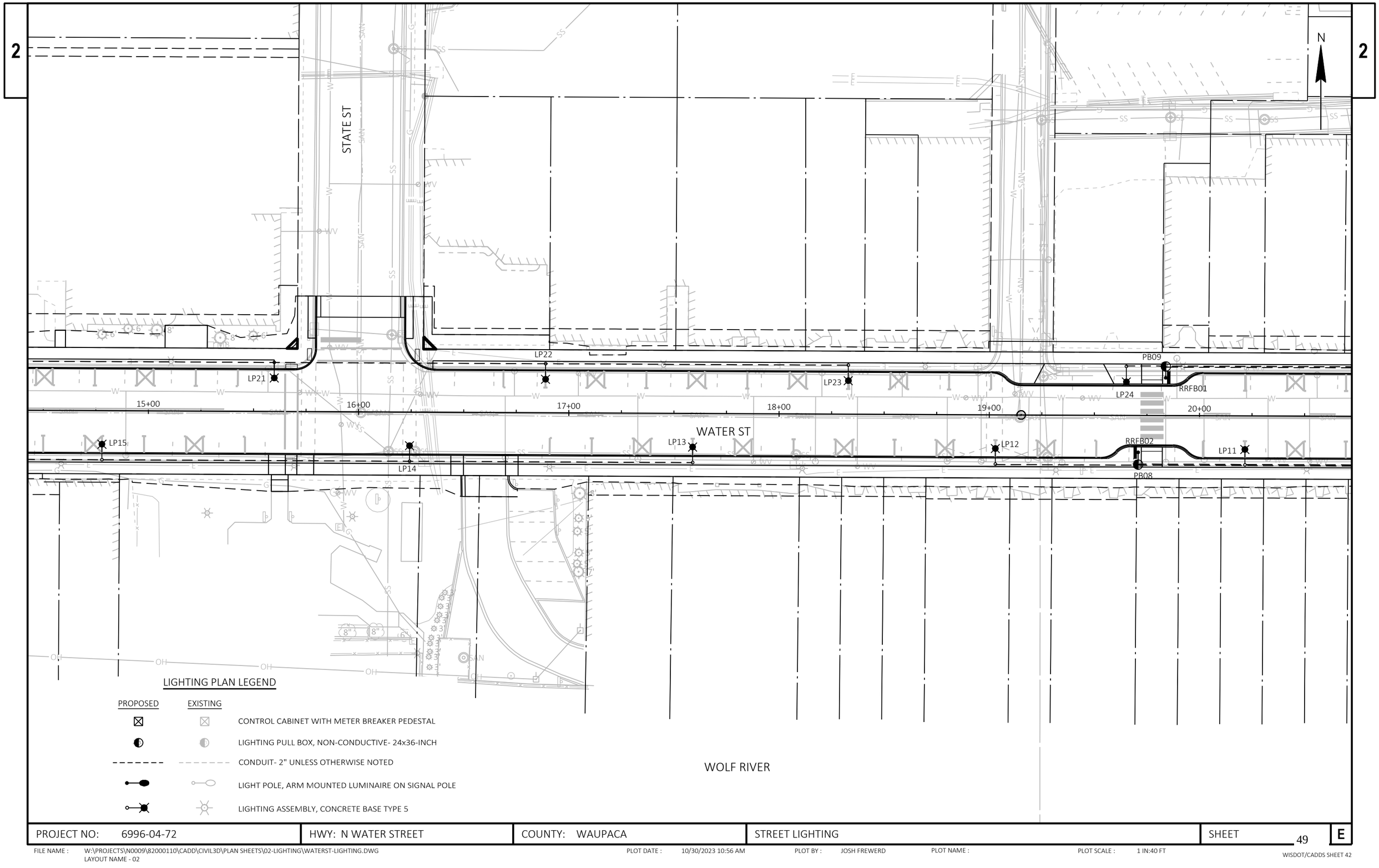
5"

OH

LIGHTING PLAN LEGEND

PROPOSED	EXISTING	
⊠	⊠	CONTROL CABINET WITH METER BREAKER PEDESTAL
◐	◐	LIGHTING PULL BOX, NON-CONDUCTIVE- 24x36-INCH
----------	----------	CONDUIT- 2" UNLESS OTHERWISE NOTED
		LIGHT POLE, ARM MOUNTED LUMINAIRE ON SIGNAL POLE
		LIGHTING ASSEMBLY, CONCRETE BASE TYPE 5

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	STREET LIGHTING	SHEET 48	E



PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	STREET LIGHTING	SHEET 49	E

2

ST. JOHN'S PL

PEARL ST

N WATER ST

WOLF RIVER

LP01

LP04

LP25

LP26

LP27

LP10

LP09

LP08

LP07

PB01

PB02

PB03

CC01
CONTROL CABINET WITH
METER BREAKER PEDESTAL

21+00

22+00

23+00

24+00

25+00

26+00

67+00

66+00

65+00

N

2

LIGHTING PLAN LEGEND

PROPOSED	EXISTING	
⊠	⊠	CONTROL CABINET WITH METER BREAKER PEDESTAL
◐	◐	LIGHTING PULL BOX, NON-CONDUCTIVE- 24x36-INCH
-------	-------	CONDUIT- 2" UNLESS OTHERWISE NOTED
●—	—○	LIGHT POLE, ARM MOUNTED LUMINAIRE ON SIGNAL POLE
●—☼	—☼	LIGHTING ASSEMBLY, CONCRETE BASE TYPE 5

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	STREET LIGHTING	SHEET 50	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\02-LIGHTING\WATERST-LIGHTING.DWG
LAYOUT NAME - 03

PLOT DATE : 10/30/2023 10:56 AM PLOT BY : JOSH FREWERD PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

PARK ST

WAUPACA ST

EMBARRASS RIVER

N

PEARL ST

67+00

68+00

69+00

70+00

71+00

72+00

LP01

LP02

LP03

LP04

LP05

LP06

PB01

CC01
CONTROL CABINET WITH
METER BREAKER PEDESTAL

WAUPACA ST

26"

12"

LIGHTING PLAN LEGEND

PROPOSED	EXISTING	
⊠	⊠	CONTROL CABINET WITH METER BREAKER PEDESTAL
◐	◐	LIGHTING PULL BOX, NON-CONDUCTIVE- 24x36-INCH
- - - - -	- - - - -	CONDUIT- 2" UNLESS OTHERWISE NOTED
		LIGHT POLE, ARM MOUNTED LUMINAIRE ON SIGNAL POLE
		LIGHTING ASSEMBLY, CONCRETE BASE TYPE 5

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	STREET LIGHTING	SHEET 51	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\02-LIGHTING\WATERST-LIGHTING.DWG
LAYOUT NAME - 04

PLOT DATE : 10/30/2023 10:56 AM PLOT BY : JOSH FREWERD PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

REMOVE AND SALVAGE TRAFFIC SIGNAL LEGEND

1. TRAFFIC SIGNAL FACES, PEDESTRIAN SIGNAL FACES, POLE, TRANSFORMER BASE, AND TROMBONE ARM
2. TRAFFIC SIGNAL FACES, PEDESTRIAN SIGNAL FACE, POLE, TRANSFORMER BASE, LUMINAIRE ARMS, AND LUMINAIRES
3. REMOVE PULL BOX
4. TRAFFIC SIGNAL STANDARD, PEDESTAL BASE, TRAFFIC SIGNAL FACE, PEDESTRIAN SIGNAL FACE.
5. CONTROLLER, CONTROLLER CABINET, AND CONCRETE BASE

SHAWANO ST

WISCONSIN ST

WATER ST

EP: 101+50.00

EP: 8+00.00

PI: 100+00.00

PI: 10+00.00

BP: 99+00.00

R/W

101+00

100+00

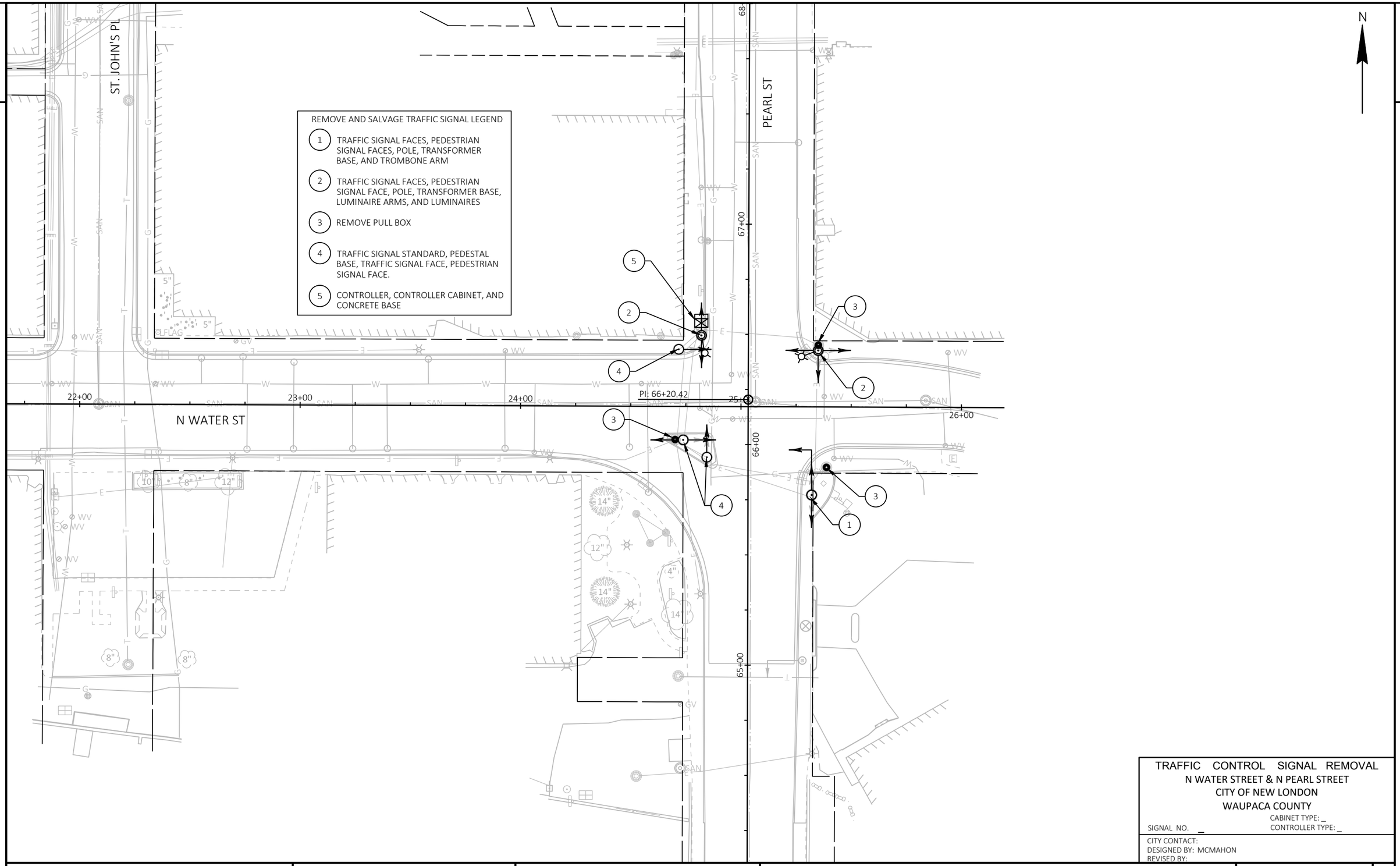
9+00

11+00

12+00

13+00

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	REMOVE AND SALVAGE TRAFFIC SIGNAL, N WATER STREET & SHAWANO STREET	SHEET 52	E



2

TRAFFIC CONTROL SIGNAL REMOVAL
N WATER STREET & N PEARL STREET
CITY OF NEW LONDON
WAUPACA COUNTY

CABINET TYPE: _
SIGNAL NO. _ CONTROLLER TYPE: _

CITY CONTACT:
DESIGNED BY: MCMAHON
REVISED BY:

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	REMOVE AND SALVAGE TRAFFIC SIGNAL	SHEET 53	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\02-SIGNALS\WATERST-EXISTING SIGNAL.DWG
LAYOUT NAME - PEARL EXIST

PLOT DATE : 8/31/2023 1:26 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- CONTROL CABINET
- 3" — NONMETALLIC CONDUIT (SIZE)
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- SIGNAL HEAD, DUAL MOUNT TRAFFIC SIGNAL POLE, 20-FOOT, TRANSFORMER BASE
- (XX) — SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 12" X 24"
- PULL BOX, 24" X 42"
- XX — SIGNAL HEAD NUMBER
- DON'T WALK INDICATOR 16" / WALK INDICATOR 16"
- Y — YIELD SIGN
- LANE DESIGNATION FOR INFO ONLY

MOUNTING CONFIGURATION WITH HEAD NUMBER			
PROPOSED SIGNAL FACES			
R Y G 3-V 1, 2, 3, 4, 5, 6, 7, 8, 9, 10	R Y G Y G 5-V 11	R Y Y G G 12	21, 22, 41, 42, 61, 62, 81, 82
NOTE: ALL SIGNAL FACE LENSES ARE 12-INCHES LED; PED SIGNAL FACES ARE 16-INCH LED			

SPEED LIMIT 25

EP: 101+50.00

SHAWANO ST

WISCONSIN ST

R/W

101+00

Ø71

Ø72

PB7

PB5

CB1

2-3"

PB1

SB7

SB8

SB6

SB5

PB4

Ø22

Ø21

EP: 8+00.00

9+00

PI: 100+00.00

10+00

11+00

12+00

13+00

WATER ST

Ø61

Ø62

Ø63

PB6

SB1

SB2

PB2

PROPOSED R/W

SB3

SB4

PB3

PROPOSED R/W

BP: 99+00.00

SPEED LIMIT 25

SPEED LIMIT 25

START CROSSING
Watch For Vehicles
DON'T START
Finish Crossing If Started
TIME REMAINING
To Finish Crossing
DON'T CROSS
TO CROSS
PUSH BUTTON

SB2, SB3, SB6, SB8

SB1, SB2, SB5, SB7

TRAFFIC CONTROL SIGNAL
N WATER STREET & SHAWANO AVENUE
CITY OF NEW LONDON
WAUPACA COUNTY

SIGNAL NO. _ CABINET TYPE: _
CONTROLLER TYPE: _

CITY CONTACT:
DESIGNED BY: MCMAHON
REVISED BY:

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	TRAFFIC SIGNAL PLAN	SHEET 54	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\02-SIGNALS\WATERST-SIGNAL.DWG
LAYOUT NAME - Plan 1 IN 40 FT

PLOT DATE : 8/30/2023 8:10 AM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

SEQUENCE OF OPERATION

N

RING 1

PHASE	HEAD NUMBERS	#1 R/W	#1 CLEAR TO * *	#2 R/W	#2 CLEAR TO * *	#3 R/W	#3 CLEAR TO * *	#4 R/W	#4 CLEAR TO * *	FLASH
1										
2	4, 5, 6			G	Y R			R	R R	R
3										
4	10, 11, 12			R	R R			G	Y R	R
5										
6	1, 2, 3			R	R R			R	R R	R
7	11, 12			–	– –			–	– –	–
8	7, 8, 9			R	R R			R	R R	R
2P	21, 22			*	D D			D	D D	
4P	41, 42			D	D D			*	D D	
6P	61, 62			D	D D			D	D D	
8P	81, 82			D	D D			D	D D	

RING 2

PHASE	HEAD NUMBERS	#5 R/W	#5 CLEAR TO * *	#6 R/W	#6 CLEAR TO * *	#7 R/W	#7 CLEAR TO * *	#8 R/W	#8 CLEAR TO * *
1									
2	4, 5, 6			R	R R	R	R R	R	R R
3									
4	10, 11, 12			R	R R	R	R R	R	R R
5									
6	1, 2, 3			G	Y R	R	R R	R	R R
7	11, 12			–	– –	G	Y –	–	– –
8	7, 8, 9			R	R R	R	R R	G	Y R
2P	21, 22			D	D D	D	D D	D	D D
4P	41, 42			D	D D	D	D D	D	D D
6P	61, 62			*	D D	D	D D	D	D D
8P	81, 82			D	D D	D	D D	*	D D

BARRIER

- * WHEN CALLED TIMED STEADY WALK, FOLLOWED BY A FLASHING DON'T WALK, THEN STEADY DON'T WALK
- ** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1)

NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NON-CONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL (SEE CHART 1).
3. WHEN OPPOSING THRU PHASES ARE TIMED CONCURRENTLY, THEY SHALL TERMINATE TOGETHER DUE TO PERMISSIVE LEFT TURN CONFLICT

CHART 1

PHASE ON	NON-CONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1		
2	6	4, 7, 8
3		
4	7 OR 8	2, 6
5		
6	2	4, 7, 8
7	4	2, 6, 8
8	4	2, 6, 7

DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	DETECTOR OPERATION: CALLS ONLY	DETECTOR OPERATION: EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	APPROX. SIZE	NUMBER OF TURNS
21	1	X			2	2				6' x 20'	4
22	1	X			2	2				6' x 20'	3
61	2	X			6	6				6' x 10'	5
62	3	X			6	6				6' x 10'	4
63	3	X			6	6				6' x 10'	3
71	5	X			7	7				6' x 20'	4
72	6	X			7	7				6' x 20'	3

TYPE OF INTERCONNECT

NONE	X
TBC	
CLOSED LOOP TWISTED PAIR	
CLOSED LOOP FIBER OPTIC	
RADIO	

TYPE OF LIGHTING

BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT

NONE	X
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

TYPE OF REMOTE COMMUNICATION

NONE	X
FIBER	
CELL MODEM	
PHONE	

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W/Ø	PHASE RECALL	PHASE ACTIVE
1				NO
2		6		YES
3				NO
4	X	7 OR 8	MIN.	YES
5				NO
6		2		YES
7		4		YES
8	X	4	MIN.	YES

SPECIAL OVERLAPS

	PROTECTED	PERMISSIVE
OL "A"		
OL "B"		
OL "C"		
OL "D"		

TRAFFIC CONTROL SIGNAL
N WATER STREET & SHAWANO AVENUE
CITY OF NEW LONDON
WAUPACA COUNTY

SIGNAL NO.

REGION CONTACT:
DESIGNED BY: MCMAHON
REVISED BY:

PAGE

PROJECT ID: 6996-04-72
INTERSECTION: N WATER ST & SHAWANO AVE

SIGNAL WIRE COLOR CODING	BLK – BLACK	RED – RED	GRN – GREEN
	WHT – WHITE	BLU – BLUE	ORG – ORANGE

CB–1 TO	JUMPER	# OF COND.	HEAD NO.	PHASE	SIGNAL INDICATION WIRE COLOR								WALK	PED BUTTON
					RED	YELLOW	GREEN	<RED>	<YELLOW> SOLID	<YELLOW> FLASHING	<GREEN>	D/WALK		
SB1		15	1	6	RED	ORG	GRN							
			5	2	RED/ BLK	ORG/ BLK	GRN/ BLK							
			41	4P								BLK	BLU	
			B	4P										WHT/ BLK
SB2		15	12	4	RED	ORG	GRN		ORG/ WHT		GRN/ WHT			
			62	6P								BLK	BLU	
			B	6P										WHT/ BLK
SB3		15	7	8	RED	ORG	GRN							
			11	4	RED/ BLK	ORG/ BLK	GRN/ BLK		ORG/ WHT		GRN/ WHT			
			61	6P								BLK	BLU	
			B	6P										WHT/ BLK
SB4		15	3	6	RED	ORG	GRN							
			82	8P								BLK	BLU	
			B	8P										WHT/ BLK
SB5		15	2	6	RED	ORG	GRN							
			4	2	RED/ BLK	ORG/ BLK	GRN/ BLK							
			81	8P								BLK	BLU	
			B	8P										WHT/ BLK
SB6		15	9	8	RED	ORG	GRN							
			22	2P								BLK	BLU	
			B	2P										WHT/ BLK
SB7		15	8	8	RED	ORG	GRN							
			10	4	RED/ BLK	ORG/ BLK	GRN/ BLK							
			21	2P								BLK	BLU	
			B	2P										WHT/ BLK
SB8		15	6	2	RED	ORG	GRN							
			42	4P								BLK	BLU	
			B	4P										WHT/ BLK

NOTES:
1. USE THE WHITE CONDUCTOR IN THE SIGNAL CABLE AS THE GROUNDED CONDUCTOR FOR ALL TRAFFIC SIGNAL INDICATIONS.
2. ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 18" LONGER THAN THE UNGROUNDED CONDUCTORS.
3. AT THE SIGNAL BASES, CONNECT ONE TERMINAL FROM THE PEDESTRIAN PUSHBUTTONS TO THE COLOR INDICATED IN THE CHART, CONNECT THE OTHER TERMINAL TO THE GROUNDED CONDUCTOR.

EQUIPMENT GROUNDING CONDUCTOR 10 AWG GREEN XLP	
FROM	TO
CB1	SB8
SB8	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	CB1

PULL BOX BONDING JUMPER 10 AWG GREEN XLP	
FROM	TO
PB1	CB1
PB2	SB2
PB6	SB1
PB3	SB4
PB4	SB5
PB5	SB8
PB7	SB7

LIGHTING UF 12 AWG W/ GROUND	
FROM	TO
CB1	SB8
CB1	SB2
CB1	SB4
CB1	SB6

TRAFFIC CONTROL SIGNAL
N WATER STREET & SHAWANO AVENUE
CITY OF NEW LONDON
WAUPACA COUNTY

SIGNAL NO.

REGION CONTACT:
DESIGNED BY: MCMAHON
REVISED BY:

PAGE

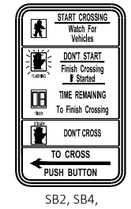
PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	CABLE ROUTING DIAGRAM N WATER STREET AND SHAWANO AVENUE	SHEET 56	E

MOUNTING CONFIGURATION WITH HEAD NUMBER			
PROPOSED SIGNAL FACES			
R Y G 3-V 1, 2, 3, 4, 5, 6, 7, 10, 11, 12	R Y G Y G 5-V 8	R Y Y G G 5-H 9	21, 22, 41, 42, 61, 62, 81, 82
NOTE: ALL SIGNAL FACE LENSES ARE 12-INCHES LED; PED SIGNAL FACES ARE 16-INCH LED			

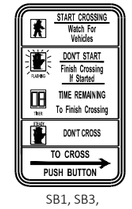
CONTROL CABINET
NC2 — NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
LOOP DETECTOR CONDUIT 1" NONMETALLIC
SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
SIGNAL HEAD, DUAL MOUNT TRAFFIC SIGNAL POLE, 20-FOOT, TRANSFORMER BASE
(XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
PEDESTRIAN HEAD WITH PUSH BUTTON
LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
PULL BOX, 12" X 24"
PULL BOX, 24" X 42"
XX SIGNAL HEAD NUMBER
DON'T WALK INDICATOR 16"
WALK INDICATOR 16"
Y YIELD SIGN
LANE DESIGNATION FOR INFO ONLY

N

ST. JOHN'S PL
PEARL ST
N WATER ST
PROPOSED R/W
PROPOSED R/W
SPEED LIMIT 25
SPEED LIMIT 25
SPEED LIMIT 25
SPEED LIMIT 25
PI: 66+20.42
22+00
23+00
24+00
25+00
26+00
67+00
66+00
65+00
SB1
SB2
SB3
SB4
SB5
SB6
SB7
SB8
PB1
PB2
PB3
PB4
PB5
PB6
CB01
Ø61
Ø62
Ø31
Ø32
Ø21
Ø22
Ø23



SB2, SB4, SB6, SB8



SB1, SB3, SB5, SB7

TRAFFIC CONTROL SIGNAL
N WATER STREET & N PEARL STREET
CITY OF NEW LONDON
WAUPACA COUNTY
CABINET TYPE: _
SIGNAL NO. _ CONTROLLER TYPE: _
CITY CONTACT:
DESIGNED BY: MCMAHON
REVISED BY:

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	TRAFFIC SIGNAL PLAN	SHEET 57	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\02-SIGNALS\WATERST-SIGNAL.DWG
LAYOUT NAME - Plan 1 IN 40 FT (PEARL)
PLOT DATE : 8/30/2023 8:10 AM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

SEQUENCE OF OPERATION

N

NOT USED

NOT USED

NOT USED

RING 1

PHASE	HEAD NUMBERS	#1 R/W	#1 CLEAR TO * *	#2 R/W	#2 CLEAR TO * *	#3 R/W	#3 CLEAR TO * *	#4 R/W	#4 CLEAR TO * *	FLASH
1										
2	4, 5, 6			G	Y R	–	– –	R	R R	R
3	11, 12			–	– –	G	Y –	–	– –	
4	10, 11, 12			R	R R	R	R R	G	Y R	R
5										
6	1, 2, 3			R	R R	R	R R	R	R R	R
7										
8	7, 8, 9			R	R R	R	R R	R	R R	R
2P	21, 22			*	D D	D	D D	D	D D	
4P	41, 42			D	D D	D	D D	*	D D	
6P	61, 62			D	D D	D	D D	D	D D	
8P	81, 82			D	D D	D	D D	D	D D	

RING 2

PHASE	HEAD NUMBERS	#5 R/W	#5 CLEAR TO * *	#6 R/W	#6 CLEAR TO * *	#7 R/W	#7 CLEAR TO * *	#8 R/W	#8 CLEAR TO * *
1									
2	4, 5, 6			R	R R			R	R R
3	11, 12			–	– –			–	– –
4	10, 11, 12			R	R R			R	R R
5									
6	1, 2, 3			G	Y R			R	R R
7									
8	7, 8, 9			R	R R			G	Y R
2P	21, 22			D	D D			D	D D
4P	41, 42			D	D D			D	D D
6P	61, 62			*	D D			D	D D
8P	81, 82			D	D D			*	D D

BARRIER

- * WHEN CALLED TIMED STEADY WALK, FOLLOWED BY A FLASHING DON'T WALK, THEN STEADY DON'T WALK
- ** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1)

NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NON-CONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL (SEE CHART 1).
3. WHEN OPPOSING THRU PHASES ARE TIMED CONCURRENTLY, THEY SHALL TERMINATE TOGETHER DUE TO PERMISSIVE LEFT TURN CONFLICT.

CHART 1

PHASE ON	NON-CONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1		
2	6	3, 4, 8
3	8	2, 4, 6
4	8	2, 3, 6
5		
6	2	3, 4, 8
7		
8	3 OR 4	2, 6

DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	DETECTOR OPERATION: CALLS ONLY	DETECTOR OPERATION: EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
21	1	X			2	2				6' x 12'	5
22	2	X			2	2				6' x 12'	4
23	2	X			2	2				6' x 12'	3
31	3	X			3	3				6' x 20'	4
32	3	X			3	3				6' x 20'	3
61	4	X			6	6				6' x 20'	4
62	4	X			6	6				6' x 20'	3

TYPE OF INTERCONNECT	
NONE	X
TBC	
CLOSED LOOP TWISTED PAIR	
CLOSED LOOP FIBER OPTIC	
RADIO	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

TYPE OF REMOTE COMMUNICATION	
NONE	X
FIBER	
CELL MODEM	
PHONE	

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W/Ø	PHASE RECALL	PHASE ACTIVE
1				NO
2		6		YES
3		8		YES
4	X	8	MIN.	YES
5				NO
6		2		YES
7				NO
8	X	3 OR 4	MIN.	YES

SPECIAL OVERLAPS

	PROTECTED	PERMISSIVE
OL "A"		
OL "B"		
OL "C"		
OL "D"		

TRAFFIC CONTROL SIGNAL
N WATER STREET & N PEARL STREET
CITY OF NEW LONDON
WAUPACA COUNTY

SIGNAL NO.

REGION CONTACT:
DESIGNED BY: MCMAHON
REVISED BY:

PAGE

PROJECT ID: 6996-04-72
INTERSECTION: N WATER ST & N PEARL ST

SIGNAL WIRE COLOR CODING	BLK – BLACK	RED – RED	GRN – GREEN
	WHT – WHITE	BLU – BLUE	ORG – ORANGE

CB–1 TO	JUMPER	# OF COND.	HEAD NO.	PHASE	SIGNAL INDICATION WIRE COLOR								WALK	PED BUTTON
					RED	YELLOW	GREEN	<RED>	<YELLOW> SOLID	<YELLOW> FLASHING	<GREEN>	D/WALK		
SB1		15	1	6	RED	ORG	GRN							
			5	2	RED/ BLK	ORG/ BLK	GRN/ BLK							
			41	4P								BLK	BLU	
			B	4P										WHT/ BLK
SB2		15	12	4	RED	ORG	GRN							
			62	6P								BLK	BLU	
			B	6P										WHT/ BLK
SB3		15	7	8	RED	ORG	GRN							
			11	4	RED/ BLK	ORG/ BLK	GRN/ BLK							
			61	6P								BLK	BLU	
			B	6P										WHT/ BLK
SB4		15	3	6	RED	ORG	GRN							
			82	8P								BLK	BLU	
			B	8P										WHT/ BLK
SB5		15	2	6	RED	ORG	GRN							
			4	2	RED/ BLK	ORG/ BLK	GRN/ BLK							
			81	8P								BLK	BLU	
			B	8P										WHT/ BLK
SB6		15	9	8	RED	ORG	GRN		ORG/ WHT		GRN/ WHT			
			22	2P								BLK	BLU	
			B	2P										WHT/ BLK
SB7		15	8	8	RED	ORG	GRN		ORG/ WHT		GRN/ WHT			
			10	4	RED/ BLK	ORG/ BLK	GRN/ BLK							
			21	2P								BLK	BLU	
			B	2P										WHT/ BLK
SB8		15	6	2	RED	ORG	GRN							
			42	4P								BLK	BLU	
			B	4P										WHT/ BLK

NOTES:
1. USE THE WHITE CONDUCTOR IN THE SIGNAL CABLE AS THE GROUNDED CONDUCTOR FOR ALL TRAFFIC SIGNAL INDICATIONS.
2. ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 18" LONGER THAN THE UNGROUNDED CONDUCTORS.
3. AT THE SIGNAL BASES, CONNECT ONE TERMINAL FROM THE PEDESTRIAN PUSHBUTTONS TO THE COLOR INDICATED IN THE CHART, CONNECT THE OTHER TERMINAL TO THE GROUNDED CONDUCTOR.

EQUIPMENT GROUNDING CONDUCTOR 10 AWG GREEN XLP	
FROM	TO
CB1	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB1
SB1	SB2
SB2	SB3
SB3	CB1

PULL BOX BONDING JUMPER 10 AWG GREEN XLP	
FROM	TO
PB1	CB1
PB2	SB6
PB3	SB7
PB4	SB2
PB5	SB3
PB6	SB5

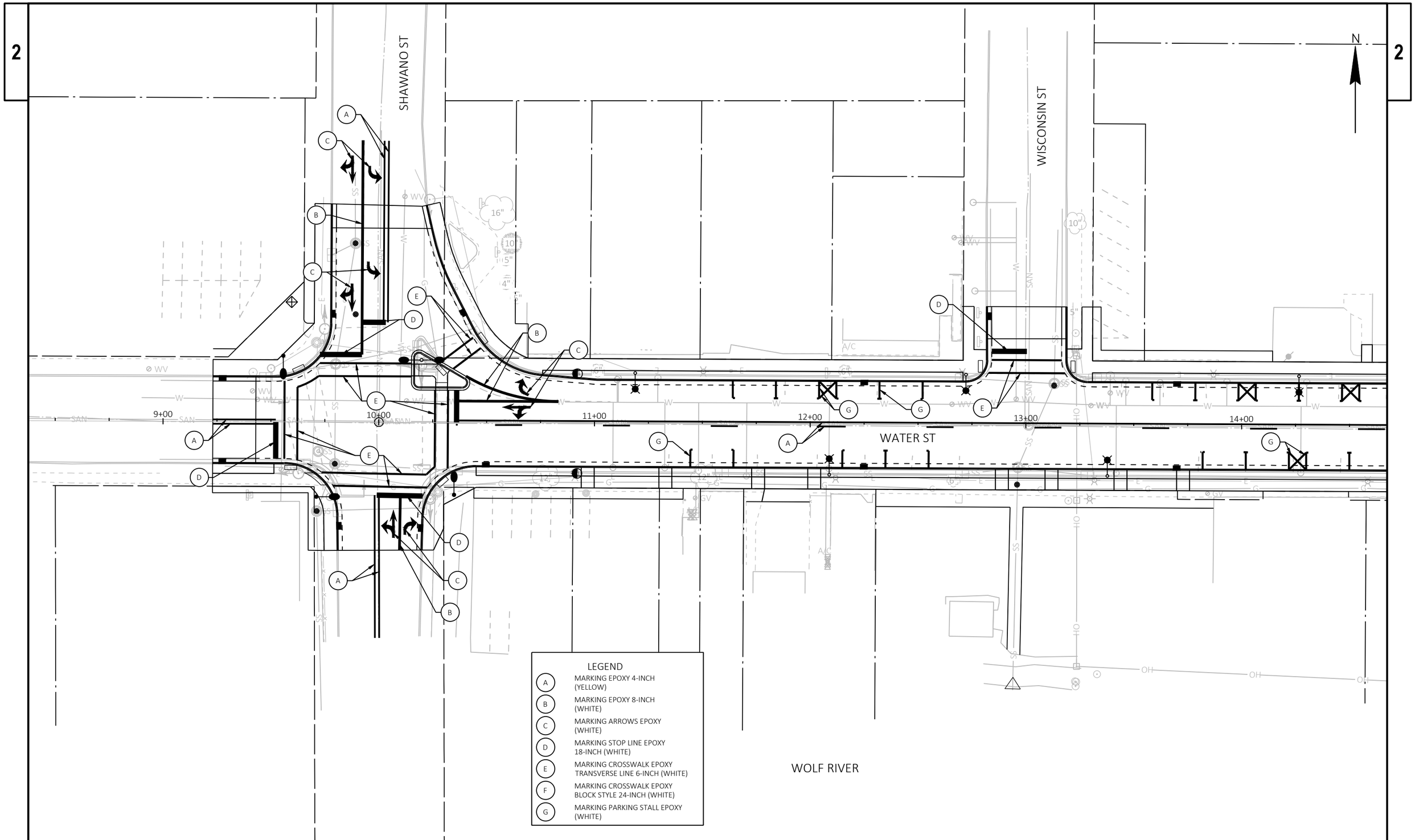
LIGHTING UF 12 AWG W/ GROUND	
FROM	TO
CB1	SB4
CB1	SB6
CB1	SB8
CB1	SB2

TRAFFIC CONTROL SIGNAL
N WATER STREET & N PEARL STREET
CITY OF NEW LONDON
WAUPACA COUNTY

SIGNAL NO.

REGION CONTACT:
DESIGNED BY: MCMAHON
REVISED BY:

PAGE



PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	PAVEMENT MARKING	SHEET 60	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\02-PM\WATERST-PM.DWG
LAYOUT NAME - 01

PLOT DATE : 8/30/2023 8:11 AM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

STATE ST

WATER ST

WOLF RIVER

15+00

16+00

17+00

18+00

19+00

20+00

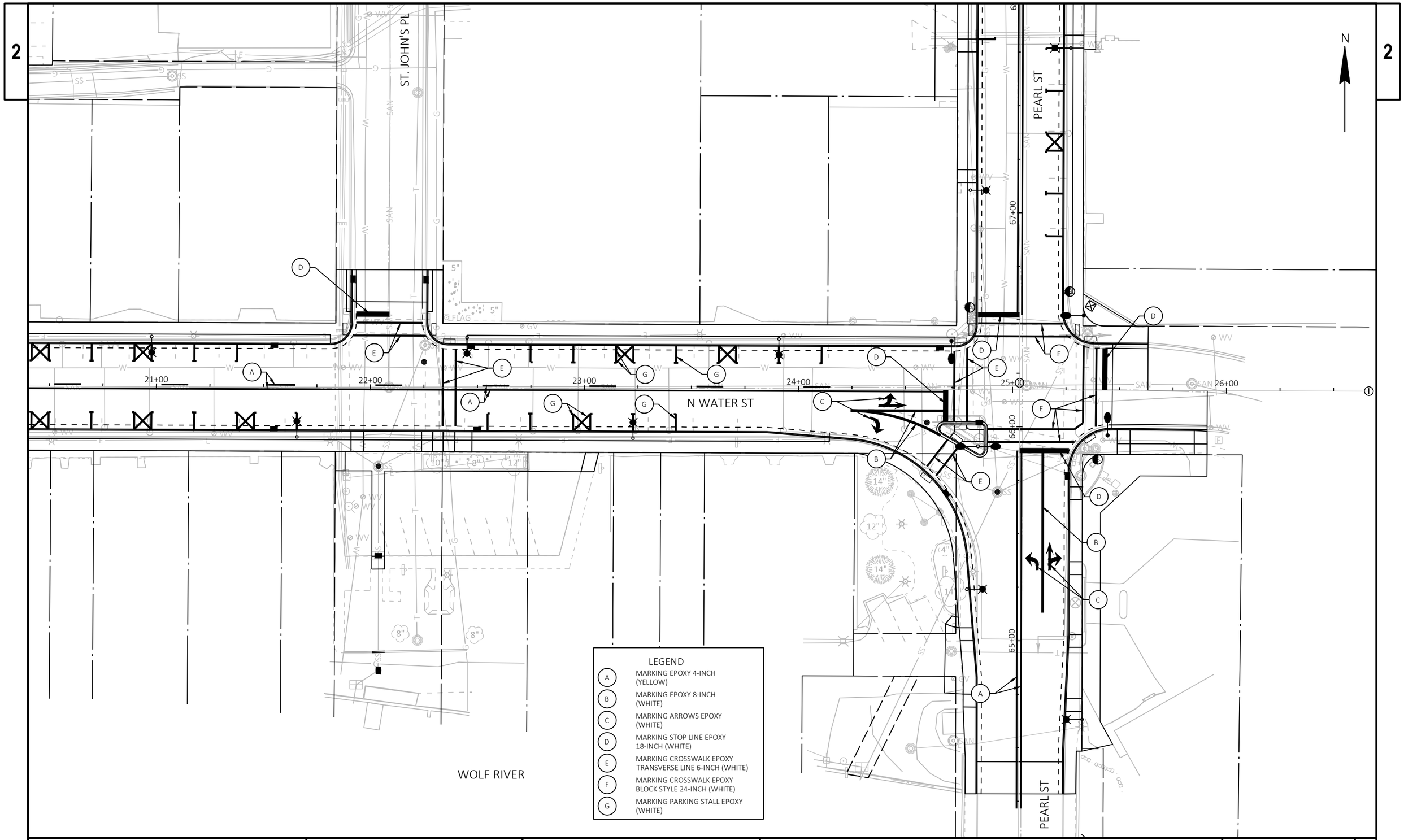
LEGEND

A	MARKING EPOXY 4-INCH (YELLOW)
B	MARKING EPOXY 8-INCH (WHITE)
C	MARKING ARROWS EPOXY (WHITE)
D	MARKING STOP LINE EPOXY 18-INCH (WHITE)
E	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
F	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
G	MARKING PARKING STALL EPOXY (WHITE)

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	PAVEMENT MARKING	SHEET 61 E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\02-PM\WATERST-PM.DWG
LAYOUT NAME - 02

PLOT DATE : 8/30/2023 8:11 AM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:40 FT



PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	PAVEMENT MARKING	SHEET 62	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\02-PM\WATERST-PM.DWG
LAYOUT NAME - 03

PLOT DATE : 8/30/2023 8:11 AM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

PARK ST

WAUPACA ST

EMBARRASS RIVER

N

67+00

68+00

69+00

70+00

71+00

72+00

PEARL ST

WAUPACA ST

26"

12"

LEGEND

A	MARKING EPOXY 4-INCH (YELLOW)
B	MARKING EPOXY 8-INCH (WHITE)
C	MARKING ARROWS EPOXY (WHITE)
D	MARKING STOP LINE EPOXY 18-INCH (WHITE)
E	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
F	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
G	MARKING PARKING STALL EPOXY (WHITE)

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	PAVEMENT MARKING	SHEET 63	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\02-PM\WATERST-PM.DWG
LAYOUT NAME - 04

PLOT DATE : 8/30/2023 8:11 AM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

STAGE 1 DETOUR

WAUPACA ST

SHAWANO ST

WISCONSIN ST

STATE ST

LINCOLN CT

ST JOHNS PL

N WATER ST

N PEARL ST

WOLF RIVER AVE

SEE TRAFFIC CONTROL DETAIL "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES" DETAIL 4

SEE TRAFFIC CONTROL DETAIL "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES" DETAIL 4

SEE TRAFFIC CONTROL DETAIL "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" DETAIL B

STAGE 1 WORK ZONE

10

15

25

SEE TRAFFIC CONTROL DETAIL "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES" DETAIL 4

SEE TRAFFIC CONTROL DETAIL "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" DETAIL B

STAGE 1A WORK ZONE

SEE TRAFFIC CONTROL DETAIL "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" DETAIL B

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	TRAFFIC CONTROL - STAGE 1	SHEET 64	E

2

2

N

WAUPACA ST

SHAWANO ST

SEE TRAFFIC CONTROL DETAIL "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES" DETAIL 4

SEE TRAFFIC CONTROL DETAIL "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES" DETAIL 4

WISCONSIN ST

STATE ST

LINCOLN CT

ST JOHNS PL

10

25

N WATER ST

SEE TRAFFIC CONTROL DETAIL "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" DETAIL B

SEE TRAFFIC CONTROL DETAIL "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" DETAIL B

STAGE 1A WORK ZONE

STAGE 1A DETOUR

N PEARL ST

WOLF RIVER AVE

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	TRAFFIC CONTROL - STAGE 1A	SHEET 65	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\02-TC\WATERST-TC1A.DWG
LAYOUT NAME - 01A

PLOT DATE : 11/1/2023 12:00 PM PLOT BY : JOSH FREWERD PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 42

2

2

N

WAUPACA ST

SHAWANO ST

WISCONSIN ST

STATE ST

LINCOLN CT

ST JOHNS PL

SEE TRAFFIC CONTROL DETAIL "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES" DETAIL 4

SEE TRAFFIC CONTROL DETAIL "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES" DETAIL 4

SEE TRAFFIC CONTROL DETAIL "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES" DETAIL 4

10 15 20 25

N WATER ST

SEE TRAFFIC CONTROL DETAIL "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" DETAIL B

STAGE 2 DETOUR

N PEARL ST

SEE TRAFFIC CONTROL DETAIL "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" DETAIL B

WOLF RIVER AVE

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	TRAFFIC CONTROL - STAGE 2	SHEET 66	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\02-TC\WATERST-TC1.DWG
LAYOUT NAME - 01

PLOT DATE : 11/1/2023 11:59 AM PLOT BY : JOSH FREWERD PLOT NAME : PLOT SCALE : 1 IN:200 FT

2

N

SOUTH M3-3 24"X12"
COUNTY D M1-5A 24"X24"
DETOUR AHEAD W20-2A

END DETOUR M4-8A 24"X18"
NORTH M3-1 24"X12"
COUNTY D M1-5A 24"X24"

DETOUR M4-8 24"X12"
NORTH M3-1 24"X12"
COUNTY D M1-5A 24"X24"
MO6-1 21"X21"

DETOUR M4-8 24"X12"
NORTH M3-1 24"X12"
COUNTY D M1-5A 24"X24"
MO5-1R 21"X21"

DETOUR M4-8 24"X12"
SOUTH M3-3 24"X12"
COUNTY D M1-5A 24"X24"
MO5-1R 21"X21"

DETOUR M4-8 24"X12"
SOUTH M3-3 24"X12"
COUNTY D M1-5A 24"X24"
MO5-1L 21"X21"

DETOUR M4-8 24"X12"
SOUTH M3-3 24"X12"
COUNTY D M1-5A 24"X24"
MO6-1 21"X21"

DETOUR M4-8 24"X12"
NORTH M3-1 24"X12"
COUNTY D M1-5A 24"X24"
MO5-1L 21"X21"

MODIFY

FROM	TO
BUSINESS 45 COUNTY D	BUSINESS 45 COUNTY D
	M06-1 21"X21"

DETOUR M4-8 24"X12"
SOUTH M3-3 24"X12"
COUNTY D M1-5A 24"X24"
M06-1 21"X21"

DETOUR M4-8 24"X12"
NORTH M3-1 24"X12"
COUNTY D M1-5A 24"X24"
M06-1 21"X21"

DETOUR M4-8 24"X12"
NORTH M3-1 24"X12"
COUNTY D M1-5A 24"X24"
M06-1 21"X21"

END DETOUR M4-8A 24"X18"
SOUTH M3-3 24"X12"
COUNTY D M1-5A 24"X24"

NORTH M3-1 24"X12"
COUNTY D M1-5A 24"X24"
DETOUR AHEAD W20-2A

D
W

SHAWANO ST
WAUPACA ST
N WATER ST
WOLF RIVER
WOLF RIVER AVE
W BEACON AVE
WYMAN ST
N PEARL ST
DIVISION ST

LEGEND

DETOUR ROUTE

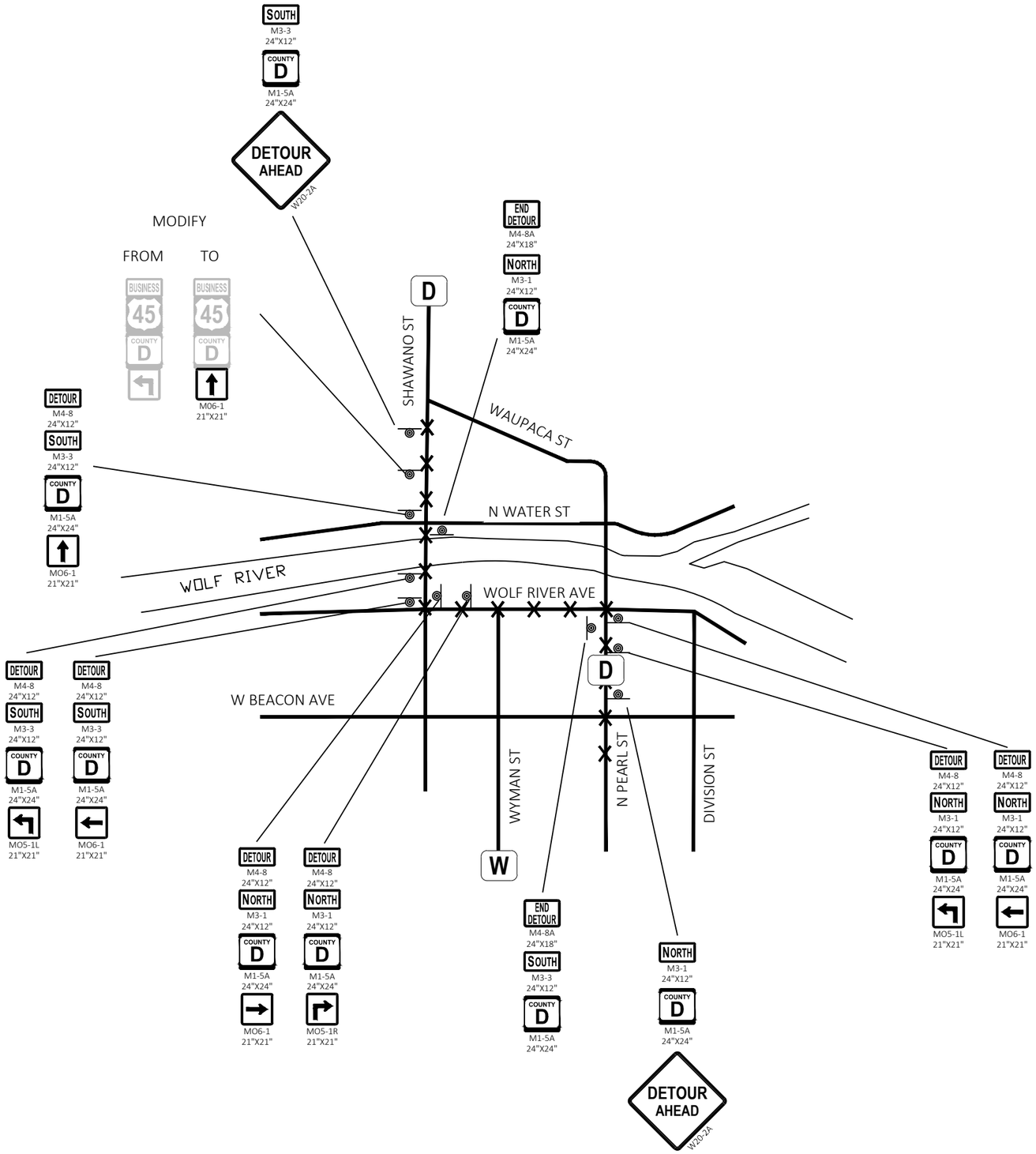
POST MOUNTED SIGN

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	DETOUR SIGNING DETAIL- STAGE 1	SHEET 67	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\02-TC\WATERST-DETOUR2.DWG
LAYOUT NAME - Plan 1 IN 1000 FT

PLOT DATE : 11/1/2023 11:30 AM PLOT BY : JOSH FREWERD PLOT NAME : PLOT SCALE : 1 IN:1000 FT

2



PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	DETOUR SIGNING DETAIL - STAGE 1A & 2	SHEET 68	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\02-TC\WATERST-DETOUR1.DWG
LAYOUT NAME - Plan 1 IN 1000 FT

PLOT DATE : 11/1/2023 11:28 AM PLOT BY : JOSH FREWERD PLOT NAME : PLOT SCALE : 1 IN:1000 FT

2

N

CURVE 1
PI STA = 71+35.47
Y = 355044.284
X = 627136.240
DELTA = 89°27'33" LT
D = 47°44'47"
T = 118.87'
L = 187.36'
R = 120.00'
PC STA = 70+16.60
Y = 354925.412
X = 627135.819
PT STA = 72+03.96
Y = 355045.827
X = 627017.377
DB = N00°12'10"E
DA = N89°15'23"W

7.25'
N89°15'23"W
EP: 150+00.00
EP: 72+11.21
PT: 72+03.96
CURVE 1
PC: 70+16.60
70
N0°12'10"E
396.17'
BP: 147+05.00
LINCOLN COURT
PARK STREET
S89°50'27"E
295.00'
STA 69+13.84 R/L PearlSt =
STA 150+00.00 R/L Park Street
Y=354,822.654
X=627,135.456

SHAWANO STREET
WISCONSIN STREET
STATE STREET
EP: 101+50.00
BP: 8+00.00
PI: 10+00.00
N0°19'58"E
150.00'
EP: 111+50.00
N0°17'37"E
150.00'
EP: 121+50.00
N0°17'37"E
150.00'
PI: 19+15.12
EP: 141+50.00
N0°12'58"E
150.00'
PI: 66+20.42
N0°12'10"E
396.17'
EP: 26+66.44
S89°44'40"E
200.00'
10
15
S89°43'32"E
915.12'
20
25
S89°46'56"E
751.31'
PI: 100+00.00
BP: 99+00.00
N0°06'36"W
100.00'
BP: 140+00.00
BP: 120+00.00
BP: 110+00.00
N0°07'37"E
1820.42'
65
60
PEARL STREET

STA 10+00.00 R/L NWaterSt =
STA 100+00.00 R/L Shawano Street
Y=354,532.666
X=625,631.167

STA 13+00.75 R/L NWaterSt =
STA 110+00.00 R/L Wisconsin Street
Y=354,531.224
X=625,931.918

STA 16+00.75 R/L NWaterSt =
STA 120+00.00 R/L State Street
Y=354,529.787
X=626,231.914

STA 22+08.74 R/L NWaterSt =
STA 140+00.00 R/L St. John's Place
Y=354,527.165
X=626,839.899

STA 25+03.26 R/L NWaterSt =
STA 66+17.23 R/L PearlSt
Y=354,526.046
X=627,134.411

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	HORIZONTAL ALIGNMENT	SHEET 69	E

Estimate Of Quantities

6996-04-72

Line	Item	Item Description	Unit	Total	Qty
0002	201.0220	Grubbing	ID	98.000	98.000
0004	204.0100	Removing Concrete Pavement	SY	13,000.000	13,000.000
0006	204.0155	Removing Concrete Sidewalk	SY	4,040.000	4,040.000
0008	204.0195	Removing Concrete Bases	EACH	47.000	47.000
0010	204.0210	Removing Manholes	EACH	17.000	17.000
0012	204.0220	Removing Inlets	EACH	35.000	35.000
0014	204.0245	Removing Storm Sewer (size) 01. 12 Inch	LF	1,760.000	1,760.000
0016	204.0245	Removing Storm Sewer (size) 02. 18 Inch	LF	150.000	150.000
0018	204.0245	Removing Storm Sewer (size) 03. 24 Inch	LF	185.000	185.000
0020	204.9060.S	Removing (item description) 01. Existing Lighting Units	EACH	32.000	32.000
0022	205.0100	Excavation Common	CY	6,798.000	6,798.000
0024	205.0501.S	Excavation, Hauling, and Disposal of Petroleum Contaminated Soil	TON	450.000	450.000
0026	209.2100	Backfill Granular Grade 2	CY	150.000	150.000
0028	213.0100	Finishing Roadway (project) 01. 6996-04-72	EACH	1.000	1.000
0030	305.0110	Base Aggregate Dense 3/4-Inch	TON	100.000	100.000
0032	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	6,296.000	6,296.000
0034	311.0110	Breaker Run	TON	500.000	500.000
0036	405.0200	Coloring Concrete Custom	CY	92.700	92.700
0038	405.1000	Stamping Colored Concrete	CY	44.100	44.100
0040	415.0080	Concrete Pavement 8-Inch	SY	10,010.000	10,010.000
0042	415.0210	Concrete Pavement Gaps	EACH	4.000	4.000
0044	415.0410	Concrete Pavement Approach Slab	SY	60.000	60.000
0046	415.1080	Concrete Pavement HES 8-Inch	SY	100.000	100.000
0048	415.4100	Concrete Pavement Joint Filling	SY	11,311.000	11,311.000
0050	455.0605	Tack Coat	GAL	107.000	107.000
0052	465.0105	Asphaltic Surface	TON	152.000	152.000
0054	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	251.000	251.000
0056	520.8000	Concrete Collars for Pipe	EACH	3.000	3.000
0058	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	1.000	1.000
0060	601.0110	Concrete Curb Type D	LF	13.000	13.000
0062	601.0405	Concrete Curb & Gutter 18-Inch Type A	LF	135.000	135.000
0064	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	365.000	365.000
0066	601.0452	Concrete Curb & Gutter Integral 30-Inch Type D	LF	4,245.000	4,245.000
0068	602.0405	Concrete Sidewalk 4-Inch	SF	32,953.000	32,953.000
0070	602.0415	Concrete Sidewalk 6-Inch	SF	5,500.000	5,500.000
0072	602.0515	Curb Ramp Detectable Warning Field Natural Patina	SF	356.000	356.000
0074	602.0615	Curb Ramp Detectable Warning Field Radial Natural Patina	SF	17.500	17.500
0076	602.0810	Concrete Driveway 6-Inch	SY	715.000	715.000
0078	602.0860	Concrete Driveway HES 6-Inch	SY	50.000	50.000
0080	606.0200	Riprap Medium	CY	8.100	8.100
0082	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	1,590.000	1,590.000
0084	608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	LF	56.000	56.000
0086	608.0418	Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	LF	330.000	330.000
0088	608.0424	Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	LF	289.000	289.000
0090	608.0430	Storm Sewer Pipe Reinforced Concrete Class IV 30-Inch	LF	33.000	33.000
0092	608.3012	Storm Sewer Pipe Class III-A 12-Inch	LF	18.000	18.000
0094	611.0535	Manhole Covers Type J-Special	EACH	15.000	15.000
0096	611.0612	Inlet Covers Type C	EACH	2.000	2.000
0098	611.0639	Inlet Covers Type H-S	EACH	36.000	36.000
0100	611.0666	Inlet Covers Type Z	EACH	1.000	1.000

Estimate Of Quantities

6996-04-72

Line	Item	Item Description	Unit	Total	Qty
0102	611.2004	Manholes 4-FT Diameter	EACH	15.000	15.000
0104	611.2005	Manholes 5-FT Diameter	EACH	1.000	1.000
0106	611.3003	Inlets 3-FT Diameter	EACH	2.000	2.000
0108	611.3230	Inlets 2x3-FT	EACH	36.000	36.000
0110	611.8110	Adjusting Manhole Covers	EACH	7.000	7.000
0112	618.0100	Maintenance and Repair of Haul Roads (project) .01- 6996-04-72	EACH	1.000	1.000
0114	619.1000	Mobilization	EACH	1.000	1.000
0116	620.0300	Concrete Median Sloped Nose	SF	210.000	210.000
0118	624.0100	Water	MGAL	94.000	94.000
0120	625.0100	Topsoil	SY	659.000	659.000
0122	628.1504	Silt Fence	LF	235.000	235.000
0124	628.1520	Silt Fence Maintenance	LF	235.000	235.000
0126	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000
0128	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	4.000
0130	628.7005	Inlet Protection Type A	EACH	1.000	1.000
0132	628.7010	Inlet Protection Type B	EACH	1.000	1.000
0134	628.7015	Inlet Protection Type C	EACH	41.000	41.000
0136	628.7020	Inlet Protection Type D	EACH	43.000	43.000
0138	628.7504	Temporary Ditch Checks	LF	10.000	10.000
0140	628.7560	Tracking Pads	EACH	4.000	4.000
0142	631.0300	Sod Water	MGAL	11.000	11.000
0144	631.1000	Sod Lawn	SY	659.000	659.000
0146	637.2210	Signs Type II Reflective H	SF	133.190	133.190
0148	638.2602	Removing Signs Type II	EACH	83.000	83.000
0150	638.3000	Removing Small Sign Supports	EACH	14.000	14.000
0152	638.3100	Removing Structural Steel Sign Supports	EACH	3.000	3.000
0154	642.5401	Field Office Type D	EACH	1.000	1.000
0156	643.0300	Traffic Control Drums	DAY	5,040.000	5,040.000
0158	643.0410	Traffic Control Barricades Type II	DAY	2,800.000	2,800.000
0160	643.0420	Traffic Control Barricades Type III	DAY	4,550.000	4,550.000
0162	643.0705	Traffic Control Warning Lights Type A	DAY	9,100.000	9,100.000
0164	643.0900	Traffic Control Signs	DAY	8,820.000	8,820.000
0166	643.1050	Traffic Control Signs PCMS	DAY	28.000	28.000
0168	643.5000	Traffic Control	EACH	1.000	1.000
0170	644.1410	Temporary Pedestrian Surface Asphalt	SF	1,400.000	1,400.000
0172	644.1601	Temporary Pedestrian Curb Ramp	DAY	490.000	490.000
0174	644.1605	Temporary Pedestrian Detectable Warning Field	SF	112.000	112.000
0176	644.1810	Temporary Pedestrian Barricade	LF	40.000	40.000
0178	645.0120	Geotextile Type HR	SY	12.200	12.200
0180	645.0140	Geotextile Type SAS	SY	24.000	24.000
0182	646.1020	Marking Line Epoxy 4-Inch	LF	2,866.000	2,866.000
0184	646.3020	Marking Line Epoxy 8-Inch	LF	390.000	390.000
0186	646.5020	Marking Arrow Epoxy	EACH	12.000	12.000
0188	646.6120	Marking Stop Line Epoxy 18-Inch	LF	239.000	239.000
0190	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	1,240.000	1,240.000
0192	646.7520	Marking Crosswalk Epoxy Block Style 24-Inch	LF	24.000	24.000
0194	646.8320	Marking Parking Stall Epoxy	LF	1,685.000	1,685.000
0196	650.4000	Construction Staking Storm Sewer	EACH	55.000	55.000
0198	650.4500	Construction Staking Subgrade	LF	2,528.000	2,528.000
0200	650.5000	Construction Staking Base	LF	190.000	190.000

6996-04-72

Line	Item	Item Description	Unit	Total	Qty
0202	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	365.000	365.000
0204	650.7000	Construction Staking Concrete Pavement	LF	2,343.000	2,343.000
0206	650.8501	Construction Staking Electrical Installations (project) 01. 6996-04-72	EACH	1.000	1.000
0208	650.9000	Construction Staking Curb Ramps	EACH	31.000	31.000
0210	650.9500	Construction Staking Sidewalk (project) 01. 6996-04-72	EACH	1.000	1.000
0212	650.9911	Construction Staking Supplemental Control (project) 01. 6996-04-72	EACH	1.000	1.000
0214	650.9920	Construction Staking Slope Stakes	LF	2,464.000	2,464.000
0216	652.0210	Conduit Rigid Nonmetallic Schedule 40 1-Inch	LF	1,220.000	1,220.000
0218	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	5,602.000	5,602.000
0220	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	1,150.000	1,150.000
0222	652.0800	Conduit Loop Detector	LF	886.000	886.000
0224	653.0140	Pull Boxes Steel 24x42-Inch	EACH	12.000	12.000
0226	653.0154	Pull Boxes Non-Conductive 24x36-Inch	EACH	7.000	7.000
0228	654.0101	Concrete Bases Type 1	EACH	10.000	10.000
0230	654.0102	Concrete Bases Type 2	EACH	8.000	8.000
0232	654.0105	Concrete Bases Type 5	EACH	27.000	27.000
0234	654.0217	Concrete Control Cabinet Bases Type 9 Special	EACH	2.000	2.000
0236	654.0230	Concrete Control Cabinet Bases Type L30	EACH	2.000	2.000
0238	655.0230	Cable Traffic Signal 5-14 AWG	LF	670.000	670.000
0240	655.0240	Cable Traffic Signal 7-14 AWG	LF	150.000	150.000
0242	655.0270	Cable Traffic Signal 15-14 AWG	LF	2,206.000	2,206.000
0244	655.0305	Cable Type UF 2-12 AWG Grounded	LF	996.000	996.000
0246	655.0515	Electrical Wire Traffic Signals 10 AWG	LF	2,384.000	2,384.000
0248	655.0620	Electrical Wire Lighting 8 AWG	LF	9,168.000	9,168.000
0250	655.0625	Electrical Wire Lighting 6 AWG	LF	7,588.000	7,588.000
0252	655.0630	Electrical Wire Lighting 4 AWG	LF	7,588.000	7,588.000
0254	655.0700	Loop Detector Lead In Cable	LF	1,812.000	1,812.000
0256	655.0800	Loop Detector Wire	LF	2,818.000	2,818.000
0258	656.0201	Electrical Service Meter Breaker Pedestal (location) 01. Pearl Street Lighting Controller	EACH	1.000	1.000
0260	656.0201	Electrical Service Meter Breaker Pedestal (location) 02. Shawano Street Lighting Controller	EACH	1.000	1.000
0262	656.0201	Electrical Service Meter Breaker Pedestal (location) 03. Pearl Street Traffic Signal Controller	EACH	1.000	1.000
0264	656.0201	Electrical Service Meter Breaker Pedestal (location) 04. Shawano Street Traffic Signal Controller	EACH	1.000	1.000
0266	657.0100	Pedestal Bases	EACH	8.000	8.000
0268	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	8.000	8.000
0270	657.0310	Poles Type 3	EACH	8.000	8.000
0272	657.0420	Traffic Signal Standards Aluminum 13-FT	EACH	6.000	6.000
0274	657.0425	Traffic Signal Standards Aluminum 15-FT	EACH	2.000	2.000
0276	657.0585	Trombone Arms 15-FT	EACH	4.000	4.000
0278	657.0590	Trombone Arms 20-FT	EACH	3.000	3.000
0280	657.0595	Trombone Arms 25-FT	EACH	1.000	1.000
0282	657.0609	Luminaire Arms Single Member 4-Inch Clamp 6-FT	EACH	10.000	10.000
0284	658.0173	Traffic Signal Face 3S 12-Inch	EACH	20.000	20.000
0286	658.0175	Traffic Signal Face 5S 12-Inch	EACH	4.000	4.000
0288	658.0416	Pedestrian Signal Face 16-Inch	EACH	16.000	16.000
0290	658.0500	Pedestrian Push Buttons	EACH	16.000	16.000
0292	658.5070	Signal Mounting Hardware (location) 01. Shawano Street Intersection	EACH	1.000	1.000
0294	658.5070	Signal Mounting Hardware (location) 02. Pearl Street Intersection	EACH	1.000	1.000
0296	659.1115	Luminaires Utility LED A	EACH	10.000	10.000

6996-04-72

Line	Item	Item Description	Unit	Total	Qty
0298	659.2130	Lighting Control Cabinets 120/240 30-Inch	EACH	2.000	2.000
0300	690.0150	Sawing Asphalt	LF	1,944.000	1,944.000
0302	690.0250	Sawing Concrete	LF	2,450.500	2,450.500
0304	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	3,003.000	3,003.000
0306	740.0440	Incentive IRI Ride	DOL	1,200.000	1,200.000
0308	999.1501.S	Crack and Damage Survey	EACH	1.000	1.000
0310	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,000.000	2,000.000
0312	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	1,260.000	1,260.000
0314	SPV.0035	Special 01. CU-Structural Soil	CY	36.000	36.000
0316	SPV.0060	Special 01. Rectangular Rapid Flash Beacon Assembly	EACH	2.000	2.000
0318	SPV.0060	Special 03. Lighting Assembly Single Fixture	EACH	27.000	27.000
0320	SPV.0060	Special 04. Posts Tubular 2 3/8 Inch 12-FT with V-LOK Anchor	EACH	17.000	17.000
0322	SPV.0060	Special 05. Traffic Signal Controller and Cabinet	EACH	2.000	2.000
0324	SPV.0060	Special 06. Install Tree Grate	EACH	6.000	6.000
0326	SPV.0060	Special 07. Posts Tubular 2 3/8-Inch 14-FT with V-LOK Anchor	EACH	3.000	3.000
0328	SPV.0060	Special 08. Remove and Salvage Traffic Signals N Water Street and Shawano Street	EACH	1.000	1.000
0330	SPV.0060	Special 09. Remove and Salvage Traffic Signals N Water Street and Pearl Street	EACH	1.000	1.000
0332	SPV.0090	Special 01. Concrete Curb and Gutter 24-Inch Type D	LF	22.000	22.000
0334	SPV.0090	Special 02. Concrete Curb and Gutter Integral 36-Inch Type D	LF	160.000	160.000
0336	SPV.0090	Special 03. Storm Sewer Lateral 6-Inch	LF	90.000	90.000
0338	SPV.0090	Special 04. Reveal Curb	LF	15.000	15.000
0340	SPV.0165	Special 01. Salvage Paver Bricks	SF	44.000	44.000

3

CLEARING AND GRUBBING

STATION	LOCATION	201.0220 GRUBBING ID
10+77 RT.	WATER ST	12
11+02 LT.	WATER ST	6
11+51 RT.	WATER ST	12
12+16 LT.	WATER ST	6
12+66 RT.	WATER ST	6
14+78 LT.	WATER ST	6
15+34 LT.	WATER ST	8
22+31 RT.	WATER ST	10
22+50 RT.	WATER ST	8
22+67 RT.	WATER ST	12
69+92 RT	PEARL ST	12
	PROJECT TOTALS	98

REMOVING CONCRETE PAVEMENT
204.0100

STATION TO STATION	LOCATION	S.Y.
MAINLINE	WATER ST & PEARL ST	13,000
	PROJECT TOTAL	13,000

REMOVING CONCRETE SIDEWALK
204.0155

STATION TO STATION	LOCATION	S.Y.
9+00 - 13+00 LT.	WATER ST	401
13+00 - 16+00 LT.	WATER ST	282
16+00 - 22+00 LT.	WATER ST	682
22+00 - 26+00 LT.	WATER ST	249
9+00 - 13+00 RT.	WATER ST	354
13+00 - 16+50 RT.	WATER ST	346
16+50 - 25+00 RT.	WATER ST	863
64+25 - 69+25 LT.	PEARL ST	341
69+25 - 71+00 LT.	PEARL ST	113
64+25 - 70+00 RT.	PEARL ST	361
	UNDISTRIBUTED	50
	PROJECT TOTALS	4,040

REMOVING CONCRETE BASES
204.0195

STATION	LOCATION	EACH
9+50 LT.	WATER ST	1
9+63 RT.	WATER ST	1
9+75 LT.	WATER ST	1
9+77 RT.	WATER ST	1
10+20 LT.	WATER ST	1
10+23 RT.	WATER ST	1
10+91 RT.	WATER ST	1
11+50 LT.	WATER ST	1
11+64 LT.	WATER ST	1
12+11 RT.	WATER ST	1
12+70 LT.	WATER ST	1
13+30 RT.	WATER ST	1
13+32 RT.	WATER ST	1
13+87 LT.	WATER ST	1
14+58 RT.	WATER ST	1
15+11 LT.	WATER ST	1
15+69 RT.	WATER ST	1
16+33 LT.	WATER ST	1
16+91 RT.	WATER ST	1
17+45 LT.	WATER ST	1
18+11 RT.	WATER ST	1
18+70 LT.	WATER ST	1
19+32 RT.	WATER ST	1
19+92 LT.	WATER ST	1
20+51 RT.	WATER ST	1
21+17 LT.	WATER ST	1
21+81 RT.	WATER ST	1
22+35 LT.	WATER ST	1
22+69 RT.	WATER ST	1
23+54 LT.	WATER ST	1
23+72 RT.	WATER ST	1
24+13 RT.	WATER ST	1
24+71 LT.	WATER ST	1
24+74 RT.	WATER ST	1
24+82 LT.	WATER ST	1
24+82 LT.	WATER ST	1
24+84 RT.	WATER ST	1
25+32 RT.	WATER ST	1
25+35 LT.	WATER ST	1
25+37 RT.	WATER ST	1
64+59 RT.	PEARL ST	1
65+02 RT.	PEARL ST	1
65+32 LT.	PEARL ST	1
67+78 LT.	PEARL ST	1
69+21 RT.	PEARL ST	1
70+23 RT.	PEARL ST	1
101+03 RT.	SHAWANO ST	1
	PROJECT TOTALS	47

REMOVING MANHOLES AND INLETS

STATION	LOCATION	204.0210 REMOVING MANHOLES EACH	204.0220 REMOVING INLETS EACH
9+48 LT	WATER ST	-	1
9+80 LT.	WATER ST	1	-
10+17 LT.	WATER ST	-	1
10+44 LT.	WATER ST	-	1
12+70 LT.	WATER ST	-	1
13+13 LT.	WATER ST	1	-
13+32 LT.	WATER ST	-	1
15+65 LT.	WATER ST	-	1
15+79 LT	WATER ST	-	1
16+15 LT.	WATER ST	1	-
16+21 LT.	WATER ST	-	1
16+33 LT.	WATER ST	-	1
19+26 LT.	WATER ST	1	-
19+35 LT.	WATER ST	-	1
22+25 LT.	WATER ST	1	-
22+26 LT.	WATER ST	-	1
22+37 LT.	WATER ST	-	1
25+30 LT.	WATER ST	-	1
9+65 RT.	WATER ST	-	1
9+72 RT.	WATER ST	1	-
9+80 RT.	WATER ST	1	-
10+36 RT.	WATER ST	-	1
11+59 RT.	WATER ST	-	1
12+71 RT.	WATER ST	-	1
12+97 RT.	WATER ST	1	-
13+28 RT.	WATER ST	-	1
15+69 RT.	WATER ST	-	1
16+14 RT.	WATER ST	1	-
16+27 RT.	WATER ST	1	-
16+32 RT.	WATER ST	-	1
18+08 RT.	WATER ST	1	1
19+28 RT.	WATER ST	1	1
21+81 RT.	WATER ST	-	1
22+04 RT.	WATER ST	1	1
22+33 RT.	WATER ST	-	1
24+57 RT.	WATER ST	-	1
25+28 RT.	WATER ST	-	1
99+58 LT.	SHAWANO ST	-	1
99+58 LT.	SHAWANO ST	1	-
99+58 RT.	SHAWANO ST	-	1
100+77 LT.	SHAWANO ST	-	1
100+83 LT.	SHAWANO ST	1	-
65+70 LT.	PEARL ST	1	-
66+92 LT.	PEARL ST	-	1
68+78 LT.	PEARL ST	-	1
68+97 LT.	PEARL ST	-	1
69+28 LT.	PEARL ST	1	-
69+45 RT.	PEARL ST	-	1
70+16 RT.	PEARL ST	-	1
	PROJECT TOTALS	17	35

REMOVING EXISTING LIGHTING UNITS

STATION	LOCATION	SPV.0060.02 EACH
9+63 RT.	WATER ST	1
9+75 LT.	WATER ST	1
10+20 LT.	WATER ST	1
10+91 RT.	WATER ST	1
11+50 LT.	WATER ST	1
12+11 RT.	WATER ST	1
12+70 LT.	WATER ST	1
13+32 RT.	WATER ST	1
13+87 LT.	WATER ST	1
14+58 RT.	WATER ST	1
15+11 LT.	WATER ST	1
15+69 RT.	WATER ST	1
16+33 LT.	WATER ST	1
16+91 RT.	WATER ST	1
17+45 LT.	WATER ST	1
18+11 RT.	WATER ST	1
18+70 LT.	WATER ST	1
19+32 RT.	WATER ST	1
19+92 LT.	WATER ST	1
20+51 RT.	WATER ST	1
21+17 LT.	WATER ST	1
21+81 RT.	WATER ST	1
22+69 RT.	WATER ST	1
23+54 LT.	WATER ST	1
24+13 RT.	WATER ST	1
24+82 LT.	WATER ST	1
25+35 LT.	WATER ST	1
64+59 RT.	PEARL ST	1
65+32 LT.	PEARL ST	1
67+78 LT.	PEARL ST	1
69+21 RT.	PEARL ST	1
70+23 RT.	PEARL ST	1
	PROJECT TOTALS	32

3

3

REMOVING STORM SEWER AND GRANULAR BACKFILL

STATION	TO	STATION	LOCATION	204.0245.01 12-INCH LF	204.0245.02 18-INCH LF	204.0245.03 24-INCH LF	209.2100 BACKFILL GRANULAR GRADE 2 CY
9+25	-	19+50	WATER ST	865	150	60	75
19+50	-	26+00	WATER ST	345	-	-	10
99+50	-	101+00	SHAWANO ST	65	-	125	20
64+40	-	70+25	PEARL ST	485	-	-	45
			PROJECT TOTALS	1760	150	185	150

* NOTE: REMOVING STORM SEWER INCLUDES REMOVAL OF ENDWALLS

CONCRETE DRIVEWAYS

STATION	LOCATION	602.0810 6-INCH S.Y.	602.0860 HES 6-INCH S.Y.
11+20 RT.	WATER ST	44	-
11+90 RT.	WATER ST	34	-
13+00 RT.	WATER ST	31	-
13+55 RT.	WATER ST	37	-
16+30 LT.	WATER ST	69	-
16+55 RT.	WATER ST	34	-
19+35 LT.	WATER ST	52	-
22+05 RT.	WATER ST	40	-
25+75 RT.	WATER ST	53	-
64+84 RT.	PEARL ST	28	-
64+85 LT.	PEARL ST	25	-
65+51 RT.	PEARL ST	28	-
67+50 LT.	PEARL ST	67	-
67+95 RT.	PEARL ST	33	-
68+80 RT.	PEARL ST	35	-
69+65 RT.	PEARL ST	23	-
70+25 RT.	PEARL ST	33	-
70+34 LT.	PEARL ST	48	-
	UNDISTRIBUTED	-	50
	PROJECT TOTALS	715	50

BASE AGGREGATE AND BREAKER RUN

STATION TO STATION	LOCATION	305.0110 3/4-INCH TON	305.0120 1-1/4 INCH TON	311.0110 BREAKER RUN TON	624.0100 WATER MGAL	REMARKS
9+23 - 25+89	WATER ST & PEARL ST	-	4088	--	61.3	MAINLINE PAVEMENT
9+26 - 10+00 LT.	WATER ST	--	17	--	0.3	4" SIDEWALK
9+26 - 10+00 LT.	WATER ST	--	7	--	0.1	6" SIDEWALK
9+26 - 10+00 LT.	WATER ST	--	38	--	0.6	PARKING LOT
10+27 LT.	WATER ST	--	9	--	0.1	MEDIAN ISLAND
10+00 - 13+00 LT.	WATER ST	--	73	--	1.1	4" SIDEWALK
10+00 - 13+00 LT.	WATER ST	--	11	--	0.2	6" SIDEWALK
13+00 - 16+00 LT.	WATER ST	-	54	--	0.8	4" SIDEWALK
13+00 - 16+00 LT.	WATER ST	-	9	--	0.1	6" SIDEWALK
13+00 - 16+00 LT.	WATER ST	-	11	--	0.2	DRIVEWAYS
13+00 - 16+00 LT.	WATER ST	-	28	--	0.4	PARKING LOT
16+00 - 22+000 LT.	WATER ST	-	148	--	2.2	4" SIDEWALK
16+00 - 22+000 LT.	WATER ST	-	13	--	0.2	6" SIDEWALK
16+00 - 22+000 LT.	WATER ST	-	43	--	0.6	DRIVEWAYS
16+00 - 22+000 LT.	WATER ST	-	13	--	0.2	PARKING LOT
22+00 - 25+00 LT.	WATER ST	-	65	--	1.0	4" SIDEWALK
22+00 - 25+00 LT.	WATER ST	-	7	--	0.1	6" SIDEWALK
25+00 - 26+00 LT.	WATER ST	-	4	--	0.1	4" SIDEWALK
25+00 - 26+00 LT.	WATER ST	-	8	--	0.1	6" SIDEWALK
25+00 - 26+00 LT.	WATER ST	-	9	--	0.1	PARKING LOT
9+26 - 10+00 RT.	WATER ST	-	13	--	0.2	4" SIDEWALK
9+26 - 10+00 RT.	WATER ST	-	5	--	0.1	6" SIDEWALK
9+26 - 10+00 RT.	WATER ST	-	18	--	0.3	PARKING LOT
10+00 - 16+44 RT.	WATER ST	-	112	--	1.7	4" SIDEWALK
10+00 - 16+44 RT.	WATER ST	-	17	--	0.3	6" SIDEWALK
10+00 - 16+44 RT.	WATER ST	-	49	--	0.7	DRIVEWAYS
10+00 - 16+44 RT.	WATER ST	-	131	--	2.0	PARKING LOT
16+44 - 25+00 RT.	WATER ST	-	219	--	3.3	4" SIDEWALK
16+44 - 25+00 RT.	WATER ST	-	13	--	0.2	6" SIDEWALK
16+44 - 25+00 RT.	WATER ST	-	25	--	0.4	DRIVEWAYS
16+44 - 25+00 RT.	WATER ST	-	83	--	1.3	PARKING LOT
24+80 RT.	WATER ST	-	7	--	0.1	MEDIAN ISLAND
25+00 - 26+00 RT.	WATER ST	-	2	--	0.0	4" SIDEWALK
25+00 - 26+00 RT.	WATER ST	-	9	--	0.1	6" SIDEWALK
25+00 - 26+00 RT.	WATER ST	-	18	--	0.3	DRIVEWAYS
25+00 - 26+00 RT.	WATER ST	-	93	--	1.4	PARKING LOT WATER/ PEARL
64+29 - 66+25 LT.	PEARL ST	-	15	--	0.2	4" SIDEWALK
64+29 - 66+25 LT.	PEARL ST	-	8	-	0.1	DRIVEWAYS
64+29 - 66+25 LT.	PEARL ST	-	4	-	0.1	PARKING LOT
66+25 - 69+00 LT.	PEARL ST	-	41	-	0.6	4" SIDEWALK
66+25 - 69+00 LT.	PEARL ST	-	5	-	0.1	6" SIDEWALK
66+25 - 69+00 LT.	PEARL ST	-	22	-	0.3	DRIVEWAYS
66+25 - 69+00 LT.	PEARL ST	-	97	-	1.5	PARKING LOT
69+00 - 71+02 LT.	PEARL ST	-	21	-	0.3	4" SIDEWALK
69+00 - 71+02 LT.	PEARL ST	-	4	-	0.1	6" SIDEWALK
69+00 - 71+02 LT.	PEARL ST	-	16	-	0.2	DRIVEWAYS
69+00 - 71+02 LT.	PEARL ST	-	24	-	0.4	PARKING LOT
64+29 - 66+25 RT.	PEARL ST	-	22	-	0.3	4" SIDEWALK
64+29 - 66+25 RT.	PEARL ST	-	11	-	0.2	DRIVEWAYS
66+25 - 71+02 RT.	PEARL ST	-	52	-	0.8	4" SIDEWALK
66+25 - 71+02 RT.	PEARL ST	-	4	-	0.1	6" SIDEWALK
66+25 - 71+02 RT.	PEARL ST	-	42	-	0.6	DRIVEWAYS
66+25 - 71+02 RT.	PEARL ST	-	84	-	1.3	PARKING LOT
9+23 - 9+43	WATER ST	-	53	-	0.8	MAINLINE ASPHALT
100+90 - 101+00	SHAWANO ST	-	32	-	0.5	MAINLINE ASPHALT
110+40 - 110+55	WISCONSIN ST	-	36	-	0.5	MAINLINE ASPHALT
120+45 - 120+55	STATE ST	-	28	-	0.4	MAINLINE ASPHALT
140+30 - 140+55	ST. JOHN'S PLACE	-	36	-	0.5	MAINLINE ASPHALT
PARK STREET	PARK ST	-	102	-	1.5	MAINLINE ASPHALT
70+83 - 71+02	PEARL ST	-	66	-	1.0	MAINLINE ASPHALT
UNDISTRIBUTED EBS	--	100	--	500	-	--
	PROJECT TOTALS	100	6,296	500	94	

DIVISION	FROM/TO STATION	LOCATION	205.0100 COMMON EXCAVATION (1) CUT (2)	205.0100 COMMON EXCAVATION (1) EBS EXCAVATION (3)	SALVAGED/UNUSABLE PAVEMENT MATERIAL (4)	AVAILABLE MATERIAL (5)	REDUCED EBS IN FILL (9) FACTOR 1.00	EXPANDED EBS BACKFILL (11) FACTOR 1.00	UNEXPANDED FILL	EXPANDED FILL (13) FACTOR 1.25	MASS ORDINATE +/- (14)	WASTE	COMMENT
DIVISION 1													
WATER ST	9+00.00/26+00.00		4,108	0	1,280	2,828	0	0	0	0	2,828	2,828	
PEARL ST	64+28.00/71+25.00		1,690	0	523	1,167	0	0	2	3	1,165	1,165	
SHAWANO ST	99+39.00/101+02.00		428	0	93	335	0	0	3	4	331	331	
WISCONSIN ST	110+17.00/110+56.00		93	0	25	68	0	0	0	0	68	68	
STATE ST	120+17.00/120+56.00		110	0	29	81	0	0	0	0	81	81	
ST. JOHNS PL	140+17.00/140+56.00		93	0	22	71	0	0	0	0	71	71	
PARK ST	149+24.00/149+83.00		151	0	41	110	0	0	0	0	110	110	
UNDISTRIBUTED				125	0	0	0	0	0	0	0	0	
DIVISION 1 SUBTOTAL			6,673	125	2,013	4,660	0	0	5	6	4,654	4,654	
GRAND TOTAL			6,673	125	2,013	4,660	0	0	5	6	4,654	4,654	
TOTAL COMMON EXC			6,798										

NOTES:
(1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100
(2) SALVAGED/UNSUABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.
(3) EBS EXCAVATION TO BE BACKFILLED WITH SELECT BORROW MATERIAL. NOTE: THIS IS DESIGNERS CHOICE, CAN BE BACKFILLED WITH BORROW, OR CUT AS WELL.
(4) SALVAGED/UNUSABLE PAVEMENT MATERIAL
(5) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSABLE PAVEMENT MATERIAL
(9) REDUCED EBS IN FILL - EXCAVATED EBS MATERIAL IS USUABLE IN FILLS OUTSIDE THE 1:1 SLOPE. EBS IN FILL REDUCTION FACTOR = 1.00
(11) EXPANDED EBS BACKFILL - THIS IS TO BE FILLED WITH SELECT BORROW MATERIAL. EBS BACKFILL FACTOR = 1.00. ITEM NUMBER 208.1100
(13) EXPANDED FILL FACTOR = 1.25
DEPENDING ON SELECTIONS:
EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK - REDUCED MARSH - REDUCED EBS) * FILL FACTOR
OR EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK - REDUCED EBS) * FILL FACTOR
OR EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK - REDUCED MARSH) * FILL FACTOR
OR EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK) * FILL FACTOR
(14) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.
(15) FACTORS USED TO COMPUTE ANTICIPATED WASTE AND THE COMPUTED WASTE VOLUME IDENTIFIED ARE FOR GENERAL INFORMATION ONLY.

EXCAVATION, HAULING, AND DISPOSAL OF PETROLEUM CONTAMINED SOIL
205.0501.S

CATEGORY 0020

STATION	LOCATION	TON
UNDISTRIBUTED	WATER ST	450
	PROJECT TOTAL	450

CONCRETE PAVEMENT

STATION	LOCATION	415.0080 8-INCH S.Y.	415.0210 PAVEMENT GAPS EACH	415.1080 HES 8-INCH S.Y.
MAINLINE & SIDEROADS	WATER ST & PEARL ST	10010	-	-
	UNDISTRIBUTED	-	4	100
	PROJECT TOTALS	10,010	4	100

CONCRETE PAVEMENT APPROACH SLAB
415.0410

STATION	LOCATION	SY
64+35	PEARL ST	60
	PROJECT TOTALS	60

CONCRETE COLLAR
520.8000

STATION	LOCATION	EACH	REMARKS
13+13 LT	WATER ST	1	EX 18"
16+15 RT	WATER ST	1	EX 30"
19+41 LT	WATER ST	1	EX 12"
	PROJECT TOTALS	3	

ASPHALTIC ITEMS

STATION TO STATION	LOCATION	455.0605 TACK COAT GAL	465.0105 ASPHALTIC SURFACE TONS	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TONS	REMARKS
9+50 LT.	WATER ST	4.6	-	13.9	PARKING LOT
13+50 LT.	WATER ST	3.3	-	10.0	PARKING LOT
19+50 LT.	WATER ST	1.6	-	4.9	PARKING LOT
25+50 LT.	WATER ST	1.1	-	3.3	PARKING LOT
9+50 RT.	WATER ST	2.1	-	6.4	PARKING LOT
10+80 RT.	WATER ST	3.2	-	9.8	PARKING LOT
11+85 RT.	WATER ST	1.4	-	4.1	PARKING LOT
13+00 RT.	WATER ST	11.1	-	33.5	PARKING LOT
16+55 RT.	WATER ST	1.5	-	4.5	PARKING LOT
22+00 RT.	WATER ST	8.5	-	25.8	PARKING LOT
64+85 LT.	PEARL ST	0.4	-	1.3	DRIVEWAY
68+25 LT.	PEARL ST	11.6	-	35.1	PARKING LOT
65+50 RT.	PEARL ST	11.1	-	33.6	PARKING LOT
69+00 RT.	PEARL ST	10.1	-	30.6	PARKING LOT
100+99 - 101+00	SHAWANO ST	2.9	13.3	-	ROADWAY
110+40 - 110+55	WISCONSIN ST	3.2	14.6	-	ROADWAY
120+45 - 120+55	STATE ST	2.5	6.4	-	ROADWAY
140+40 - 140+55	ST JOHNS PL	3.1	7.8	-	ROADWAY
25+47 - 25+89	WATER ST	6.7	30.3	-	ROADWAY
69+10 LT PEARL	PARK ST	9.1	41.1	-	ROADWAY
70+42 LT.	PEARL ST	2.9	-	8.8	PARKING LOT
70+82 - 70+96	PEARL ST	5.3	24.0	-	ROADWAY
	UNDISTRIBUTED		15	25	
	PROJECT TOTALS	107	152	251	

CONCRETE CURB & GUTTER

STATION	LOCATION	601.0110 CURB TYPE D LF	601.0405 18-INCH TYPE A	601.0411 30-INCH TYPE D	601.0452 INTEGRAL 30-INCH TYPE D LF	SPV.0090.01 24-INCH TYPE D LF	SPV.0090.02 INTEGRAL 36-INCH TYPE D LF	SPV.0090.04 REVEAL CURB LF
9+00 - 10+00 LT.	WATER ST	-	-	30	115	-	-	-
10+00 - 13+00 LT.	WATER ST	-	-	25	320	-	-	-
13+00 - 16+00 LT.	WATER ST	-	-	25	303	-	-	-
16+00 - 22+00 LT.	WATER ST	-	-	25	502	-	105	15
22+00 - 25+00 LT.	WATER ST	-	-	15	280	-	-	-
25+00 - 26+00 LT.	WATER ST	-	-	15	35	-	-	-
9+00 - 10+00 RT.	WATER ST	-	-	20	68		-	-
10+00 - 25+00 RT.	WATER ST	-	-	-	1467	-	55	-
25+00 - 26+00 RT.	WATER ST	-	-	45	30	-	-	-
16+50 RT.	WATER ST		-	-	-	10	-	-
16+71 RT.	WATER ST	7	-	-	-	-	-	-
64+28 - 66+00 LT.	PEARL ST	-	-	-	111	-	-	-
66+00 - 69+00 LT.	PEARL ST	-	-	40	296	-	-	-
69+00 - 71+00 LT.	PEARL ST	-	-	65	140	-	-	-
64+28 - 66+00 RT.	PEARL ST	-	-	-	151	-	-	-
66+00 - 71+00 RT.	PEARL ST	-	-	60	427	-	-	-
70+12 LT.	PEARL ST	6	-	-	-	-	-	-
* MATCH POINT	WISCONSIN ST	-	-	-	-	12	-	-
10+25 LT	WATER ST	-	72	-	-	-	-	-
24+78 RT.	WATER ST	-	63	-	-	-	-	-
	PROJECT TOTALS	13	135	365	4245	22	160	15

*NOTE: 30-INCH CURB TRANSITIONS TO 24-INCH CURB WILL BE PAID AS 24-INCH CURB. TRANSITIONS TO BE 6' IN LENGTH

CONCRETE SIDEWALK

STATION	LOCATION	405.1000 STAMPING COLORED CONCRETE CY	405.0200 COLORING CONCRETE CUSTOM CY	602.0405 CONCRETE SIDEWALK 4-INCH SF	602.0415 CONCRETE SIDEWALK 6-INCH SF
9+00 - 13+00 LT	WATER ST	5.0	4.3	3103	1310
13+00 - 16+00 LT.	WATER ST	2.2	9.0	2635	375
16+00 - 22+00 LT.	WATER ST	9.5	18.0	5875	435
22+00 - 26+00 LT.	WATER ST	4.5	6.7	2725	490
9+00 - 13+00 RT.	WATER ST	4.0	4.3	1835	810
13+00 - 16+50 RT.	WATER ST	3.2	10.3	2935	205
16+50 - 22+00 RT.	WATER ST	5.4	20.9	6635	195
22+00 - 26+00 RT.	WATER ST	3.5	4.3	1765	860
64+25 - 69+25 LT.	PEARL ST	3.8	4.3	1960	580
69+25 - 71+00 LT.	PEARL ST	0.9	2.3	970	95
64+25 - 69+00 RT.	PEARL ST	1.3	7.3	2250	-
69+00 - 71+00 RT.	PEARL ST	0.9	1.0	265	145
	SUBTOTALS	44.1	92.7	32953	5500

CURB RAMP DETECTABLE WARNING FIELD

STATION	LOCATION	602.0515 NATURAL PATINA SF	602.062 RADIAL SF	REMARKS
9+59 RT.	WATER ST	11		
9+64 LT	WATER ST	11	-	-
9+72 RT.	WATER ST	-	17.5	-
10+17 LT.	WATER ST	11	-	MEDIAN ISLAND
10+29 LT.	WATER ST	11	-	MEDIAN ISLAND
10+30 RT.	WATER ST	11	-	-
10+30 LT.	WATER ST	11	-	MEDIAN ISLAND
10+49 LT.	WATER ST	11	-	-
12+78 LT.	WATER ST	11	-	-
13+22 LT.	WATER ST	11	-	-
15+68 LT.	WATER ST	11	-	-
15+68 RT.	WATER ST	11	-	-
15+76 LT.	WATER ST	11	-	-
16+28 LT.	WATER ST	11	-	-
19+77 LT.	WATER ST	20	-	-
19+77 RT.	WATER ST	20	-	-
21+88 LT.	WATER ST	11	-	-
22+30 LT.	WATER ST	11	-	-
22+37 LT	WATER ST	11	-	-
22+37 RT.	WATER ST	11	-	-
24+60 RT.	WATER ST	11	-	-
24+73 RT.	WATER ST	11	-	MEDIAN ISLAND
24+75 RT.	WATER ST	11	-	MEDIAN ISLAND
24+75 LT.	WATER ST	11	-	-
24+80 LT.	WATER ST	11	-	-
24+86 RT.	WATER ST	11	-	MEDIAN ISLAND
25+30 LT.	WATER ST	11	-	-
25+35 RT.	WATER ST	11	-	-
25+36 LT.	WATER ST	11	-	-
68+88 LT	PEARL ST	10	-	-
69+36 LT.	PEARL ST	10	-	-
69+36RT.	PEARL ST	10	-	-
	PROJECT TOTALS	356	17.5	

PAVEMENT SPECIALTY ITEMS

PROJECT	415.4100 CONCRETE PAVEMENT JOINT FILLING S.Y.	REMARKS
6996-04-72	11311	-
PROJECT TOTALS	11311	

3

RIPRAP & GEOTEXTILE FABRIC

STATION	LOCATION	606.0200 RIPRAP MEDIUM CY	645.0120 GEOTEXTILE TYPE HR SY
12+93 RT	WATER ST	8.1	12.2
	PROJECT TOTALS	8.1	12.2

ADJUSTING MANHOLE COVERS
611.8110

CATEGORY 0020

STATION	LOCATION	EACH
10+00	WATER ST	1
13+01	WATER ST	1
16+01	WATER ST	1
19+15	WATER ST	1
22+09	WATER ST	1
25+07	WATER ST	1
69+10	PEARL ST	1
	PROJECT TOTALS	7

CONCRETE MEDIAN SLOPED NOSE

STATION	TO	STATION	LOCATION	620.0300 SF
10+15 LT	-	10+45 LT	WATER ST	105
24+65 RT	-	24+90 RT	WATER ST	105
			PROJECT TOTALS	210

INLET PROTECTION

STRUCTURE TYPE	LOCATION	628.7005 TYPE A EACH	628.7010 TYPE B EACH	628.7015 TYPE C EACH	628.7020 TYPE D EACH
PROPOSED	WATER STREET RT.	-	-	-	14
EXISTING	WATER STREET RT.	-	-	15	-
PROPOSED	WATER STREET LT.	-	-	-	17
EXISTING	WATER STREET LT.	-	-	16	-
PROPOSED	PEARL STREET RT.	-	-	-	3
EXISTING	PEARL STREET RT.	-	-	3	-
PROPOSED	PEARL STREET LT.	-	-	-	4
EXISTING	PEARL STREET LT.	-	-	2	-
UNDISTRIBUTED		1	1	5	5
	PROJECT TOTALS	1	1	41	43

SILT FENCE

STATION TO STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF
10+00 - 26+00 RT	WATER ST	180	180
64+28 - 66+00 LT	PEARL ST	35	35
64+28 - 66+00 RT	PEARL ST	20	20
	PROJECT TOTALS	235	235

TRACKING PAD
628.7560

STATION	LOCATION	EACH
STAGE 1		
64+28	PEARL ST	1
71+00	PEARL ST	1
STAGE 2		
99+40	SHAWANO ST	1
101+00	SHAWANO ST	1
	PROJECT TOTALS	4

EROSION CONTROL

PROJECT	628.1905 MOBILIZATIONS EACH	628.1910 MOBILIZATIONS EMERGENCY EACH
6996-04-72	4	4
PROJECT TOTALS	4	4

TEMPORARY DITCH CHECKS
628.7504

STATION	LOCATION	L.F.
64+48 RT	PEARL ST	10
	PROJECT TOTALS	10

3

SIGNING

SIGN #	STATION	LOCATION	SIGN CODE	SIZE W	X	H	637.2210 SIGNS TYPE II REFLECTIVE H SF	SPV.0060.04 POSTS TUBULAR STEEL 2 3/8 INCH W/ V-LOK ANCHOR 12-FT EACH	SPV.0060.07 POSTS TUBULAR STEEL 2 3/8 INCH W/ V-LOK ANCHOR 14-FT EACH	REMARKS
1.1	100+60 RT	SHAWANO ST	R1-2	36"	X	31"	6.25	1	-	YIELD
1.2	10+39 LT	WATER ST	W12-1D	24"	X	24"	6.25	1	-	DOUBLE ARROW
1.3	10+87 RT	WATER ST	M4-3	24"	X	12"	2.00	1	-	BUSINESS
1.4	10+87 RT	WATER ST	M1-4	24"	X	24"	4.00	1	-	45
1.5	12+18 RT	WATER ST	R7-2D	18"	X	24"	3.00	1	-	NO PARKING
1.6	11+54 LT	WATER ST	R3-8XX	36"	X	30"	7.50	1	-	THROUGH,LEFT/ RIGHT ONLY ARROWS
1.7	110+39 LT	WISCONSIN ST	R1-1	30"	X	30"	6.25	1	-	STOP
1.8	110+56 LT	WISCONSIN ST	R7-53D	18"	X	24"	3.00	1	-	NO PARKING
2.1	120+37 LT	STATE ST	R1-1	30"	X	30"	6.25	1	-	STOP
2.2	16+75 RT	WATER ST	R1-1	30"	X	30"	6.25	1	-	STOP
2.3	19+40 RT	WATER ST	D4-1	30"	X	24"	5.00	1	-	PARKING
2.4	19+95 LT	WATER ST	D4-1	30"	X	24"	5.00	1	-	PARKING
3.1	21+96 LT	ST JOHNS PL	R1-1	30"	X	30"	6.25	1	-	STOP
3.2	23+68 RT	WATER ST	R3-8XX	36"	X	30"	7.50	-	1	THROUGH,LEFT/ RIGHT ONLY ARROWS
3.3	23+68 RT	WATER ST	D9-2	24"	X	24"	4.00	-	-	HOSPITAL
3.4	23+68 RT	WATER ST	M6-1	21"	X	21"	3.06	-	-	RIGHT ARROW
3.5	24+09 RT	WATER ST	M4-3	24"	X	12"	2.00	-	1	BUSINESS
3.6	24+09 RT	WATER ST	M1-4	24"	X	24"	4.00	-	-	45
3.7	24+09 RT	WATER ST	M1-5A	24"	X	24"	4.00	-	-	COUNTY D
3.8	24+09 RT	WATER ST	M6-1	21"	X	21"	3.06	-	-	RIGHT ARROW
3.9	24+71 RT	WATER ST	W12-1D	24"	X	24"	4.00	1	-	DOUBLE ARROW
3.10	65+66 LT	PEARL ST	R1-2	36"	X	31"	7.75	1	-	YIELD
4.1	64+63 RT	PEARL ST	R3-8XX	36"	X	30"	7.50	1	-	LEFT ONLY, THROUGH RIGHT
4.2	65+11 RT	PEARL ST	M4-3	24"	X	12"	2.00	-	1	BUSINESS
4.3	65+11 RT	PEARL ST	M1-4	24"	X	24"	4.00	-	-	45
4.4	65+11 RT	PEARL ST	M1-5A	24"	X	24"	4.00	-	-	COUNTY D
4.5	65+11 RT	PEARL ST	M6-1	21"	X	21"	3.06	-	-	LEFT ARROW
4.6	149+61 RT	PARK ST	R1-1	30"	X	30"	6.25	1	-	STOP
			PROJECT TOTALS				133.19	17.00	3.00	

3

SIGN REMOVALS

STATION	LOCATION	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
9+62 RT	WATER ST	1	-	TEMP STOP
10+20 LT	WATER ST	1	-	TEMP STOP
10+24 RT	WATER ST	1	-	TEMP STOP
10+35 LT	WATER ST	1	1	YIELD
10+90 RT	WATER ST	2	-	BUSINESS 45
11+64 LT	WATER ST	5	-	TURN ARROWS, N SHAWANO ST, HWY 54, TWO HOUR PARKING
12+12 RT	WATER ST	3	-	PARKING, NO PARKING 3:00AM TO 6:00AM, TWO HOUR PARKING
12+08 LT	WATER ST	1	1	TWO HOUR PARKING
13+87 LT	WATER ST	3	-	PARKING, NO PARKING 3:00AM TO 6:00AM, TWO HOUR PARKING
14+58 RT	WATER ST	1	-	TWO HOUR PARKING
15+69 RT	WATER ST	3	-	PARK CLOSED 9:00PM TO 6:30AM, PARKING, NO PARKING 3:00AM TO 6:00AM
16+34 LT	WATER ST	1	-	NO PARKING 3:00AM TO 6:00 AM
16+75 RT	WATER ST	1	1	STOP
17+45 LT	WATER ST	1	-	TWO HOUR PARKING
18+11 RT	WATER ST	1	-	TWO HOUR PARKING
19+32 RT	WATER ST	1	-	PARKING
19+45 RT	WATER ST	1	1	NO PARKING 3:00AM TO 6:00 AM
19+92 LT	WATER ST	3	-	PARKING, NO PARKING 3:00AM TO 6:00AM, TWO HOUR PARKING
21+81 RT	WATER ST	3	-	PARKING, NO PARKING 3:00AM TO 6:00AM, TWO HOUR PARKING
22+30 RT	WATER ST	2	1	ONE WAY
22+73 RT	WATER ST	2	1	DO NOT ENTER, PARK CLOSED 9:00PM TO 6:30AM
22+54 LT	WATER ST	1	-	TWO HOUR PARKING
23+71 RT	WATER ST	6	-	TURN ARROWS, N PEARL ST, TWO HOUR PARKING, NO PARKING 3:00AM TO 6:00AM, HOSPITAL
24+13 RT	WATER ST	4	-	BUISINESS 45, CNTY D, RIGHT TURN
24+73 RT	WATER ST	2	-	TEMP STOP, DOUBLE ARROW
25+35 LT	WATER ST	1	-	TEMP STOP
65+02 RT	PEARL ST	7	-	TURN ARROWS, N WATER ST, BUSINESS 45, CNTY D, LEFT TURN
65+56 LT	PEARL ST	1	1	YIELD
66+70 LT	PEARL ST	2	1	TEMP STOP, NO PARKING
69+19 RT	PEARL ST	2	-	PEDESTRIAN CROSSING, PARKING
69+35 RT	PEARL ST	2	1	PARK ST, N PEARL ST
70+31 RT	PEARL ST	1	1	NO PARKING
149+57 RT	PARK ST	4	1	PARK ST, N PEARL ST, STOP, PARKING
140+37 LT	ST JOHNS PL	4	-	STOP, ST JOHNS PL, PARKING, STOP
120+36 LT	STATE ST	3	-	STATE ST, N WATER ST, STOP
110+39 LT	WISCONSIN ST	3	1	WISCONSIN ST, N WATER ST, STOP
110+52 LT	WISCONSIN ST	1	1	NO PARKING
100+62 RT	SHAWANO ST	1	1	YIELD
	PROJECT TOTALS	83	14	

REMOVING STRUCTURAL STEEL SIGN SUPPORTS

638.3100

STATION	LOCATION	EACH
11+64 LT.	WATER ST	1
23+72 RT.	WATER ST	1
65+02 RT.	PEARL ST	1
	PROJECT TOTALS	3

TRAFFIC CONTROL

LOCATION	APPROX. SERVICE PERIOD DAYS	643.0300 DRUMS NO.	643.0300 DRUMS DAYS	643.0410 BARRICADES TYPE II NO.	643.0410 BARRICADES TYPE II DAYS	643.0420 BARRICADES TYPE III NO.	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A NO.	643.0705 WARNING LIGHTS TYPE A DAYS	643.0900 SIGNS NO.	643.0900 SIGNS DAYS	643.1050 SIGNS PCMS NO.	643.1050 SIGNS PCMS DAYS	REMARKS
STAGE 1														
WATER ST	7	10	70		0		0		0		0	2	14	ADVANCED WARNING FOR CLOSURE
PEARL ST	7	10	70		0		0		0		0	2	14	ADVANCED WARNING FOR CLOSURE
WATER ST	70	20	1400	8	560	11	770	24	1680	8	560		0	
PEARL ST	70	20	1400	8	560	11	770	24	1680	8	560		0	
DETOUR	70		0		0		0		0	40	2800		0	
SIDE STREETS	70	5	350	6	420	10	700	12	840	8	560		0	
STAGE 2														
WATER ST	70	20	1400	12	840	11	770	24	1680	8	560		0	
PEARL ST	70		0		0		0		0	2	140		0	
DETOUR	70		0		0		0		0	36	2520		0	
SIDE STREETS	70	5	350	6	420	22	1540	46	3220	16	1120		0	
STAGE 1 SUBTOTALS			3290		1540		2240		4200		4480		28	
STAGE 2 SUBTOTALS			1750		1260		2310		4900		4340		0	
PROJECT TOTALS			5040		2800		4550		9100		8820		28	

TEMPORARY PEDESTRIAN ACCOMODATIONS

STATION	TO	STATION	LOCATION	644.1410 TEMPORARY PEDESTRIAN SURFACE ASPHALT SF	644.1601 TEMPORARY PEDESTRIAN CURB RAMP DAY	644.1605 TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD SF	644.1810 TEMPORARY PEDESTRIAN BARRICADE LF
9+22 LT	-	13+00 LT	WATER ST	100	35	8	
13+00 LT	-	16+00 LT	WATER ST	100	35	8	
16+00 LT	-	22+00 LT	WATER ST	100	35	8	20
22+00 LT	-	25+00 LT	WATER ST	100	35	8	
25+00 LT	-	26+00 LT	WATER ST	100	35	8	
9+22 RT	-	13+50 RT	WATER ST	100	35	8	
13+50 RT	-	16+50 RT	WATER ST	100	35	8	
16+50 RT	-	20+00 RT	WATER ST	100	35	8	20
20+00 RT	-	26+00 RT	WATER ST	100	35	8	
64+28 LT	-	66+00 LT	PEARL ST	100	35	8	
66+00 LT	-	69+00 LT	PEARL ST	100	35	8	
69+00 LT	-	71+00 LT	PEARL ST	100	35	8	
64+28 RT	-	66+00 RT	PEARL ST	100	35	8	
66+00 RT	-	69+50 RT	PEARL ST	100	35	8	
			PROJECT TOTALS	1400	490	112	40

PAVEMENT MARKING EPOXY

STATION TO STATION	LOCATION	646.1020 MARKING LINE EPOXY 4-INCH (Yellow) LF	646.3020 MARKING LINE EPOXY 8-INCH (White) LF	646.5020 MARKING ARROW EPOXY EACH	646.6120 MARKING STOP LINE EPOXY 18-INCH LF	646.7520 MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH LF	646.7420 MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH LF	646.8320 MARKING PARKING STALL EPOXY (White) LF
9+22 - 16+00	WATER ST	710	95	2	33	-	450	475
16+00 - 26+00	WATER ST	736	90	2	35	24	420	990
64+28 - 71+00	PEARL ST	1115	80	2	60	-	155	220
140+24 - 140+55	ST JOHNS PL	-	-	-	20	-	65	-
120+24 - 120+55	STATE ST	-	-	-	20	-	82	-
110+24 - 110+55	WISCONSIN ST	-	-	-	16	-	68	-
99+40 - 101+00	SHAWANO ST UNDISTRIBUTED	305	125	6	55	-	-	-
	PROJECT TOTALS	2866	390	12	239	24	1240	1685

CONDUIT RIGID NONMETALLIC
SCHEDULE 40 2-INCH
STREET LIGHTING

FROM	TO	* 652.0225 LF
CCO1	PB01	48
PB01	LP01	114
LP01	LP02	148
LP02	LP03	150
PB01	PB02	144
PB02	LP04	55
LP04	LP05	159
LP05	LP06	135
PB02	LP27	200
LP27	LP26	292
LP26	LP25	294
LP25	PB09	228
PB09	LP24	19
PB09	RRFB01	6
CC01	PB03	292
PB03	LP07	128
PB03	LP08	90
PB03	LP09	436
LP09	LP10	314
LP10	LP11	268
LP11	PB08	102
PB08	RRFB02	7
PB08	LP12	68
CC02	PB06	280
PB06	LP18	27
LP18	LP19	153
LP19	LP20	155
LP20	LP21	133
LP21	LP22	129
LP22	LP23	144
PB06	PB07	47
PB07	LP17	117
LP17	LP16	129
LP16	LP15	141
LP15	LP14	146
LP14	LP13	135
	PROJECT TOTALS	5,433

* ADDITIONAL QUANTITIES INCLUDED ELSEWHERE

ELECTRICAL WIRING

655.0630
ELECTRICAL WIRE LIGHTING 4
AWG

No. of Wires	From	To	Path Measurement (L.F.)															L.F.	Remarks
	CC02	LP23	CC02	to	PB06	to	LP18	to	LP19	to	LP20	to	LP21	to	LP22	to	LP23	---	CABINET 2- CIRCUIT 1,3
4			15	138	15	27	8	154	8	155	8	134	8	129	8	144	8	3,836	MAIN FEEDER
				to		to		to		to		to		to		to		---	SUB-FEEDER
4																			
				to		to		to		to		to		to		to		---	SUB-FEEDER
4																			

No. of Wires	From	To	Path Measurement (L.F.)															L.F.	Remarks
	CC02	LP13	CC02	to	PB06	to	PB07	to	LP17	to	LP16	to	LP15	to	LP14	to	LP13	---	CABINET 2- CIRCUIT 2,4
4			15	138	15	46	15	117	8	129	8	141	8	147	8	135	8	3,752	MAIN FEEDER
																		---	SUB-FEEDER
4																			
																		---	SUB-FEEDER
4																		0	

PROJECT TOTALS 7,588

ELECTRICAL WIRING

655.0625
ELECTRICAL WIRE LIGHTING 6
AWG CC01

No. of Wires	From	To	Path Measurement (L.F.)															L.F.	Remarks
	CC01	LP12	CCO1	to	PB03	to	LP09	to	LP10	to	LP11	to	PB08	to	LP12	to		---	CABINET 1- CIRCUIT 2,4
4			15	74	15	218	8	157	8	144	8	51	15	68	8			3,156	MAIN FEEDER
	CC01	LP07	CC01	to	PB03	to	LP07	to		to		to		to		to		---	SUB-FEEDER
4			15	74	15	125												916	
	CC01	LP08	CC01	to	PB03	to	LP08	to		to		to		to		to		---	SUB-FEEDER
4			15	74	15	90	8											808	

No. of Wires	From	To	Path Measurement (L.F.)															L.F.	Remarks
	CC01	LP24	CC01	to	PB01	to	PB02	to	LP27	to	LP26	to	LP25	to	PB09	to	LP24	---	CABINET 1- CIRCUIT 5,7
4			15	12	15	48	15	99	8	146	8	147	8	114	15	19	8	2,708	MAIN FEEDER
																		---	SUB-FEEDER
4																			

4																		0	

PROJECT TOTALS 7,588

ELECTRICAL WIRING

655.0620
ELECTRICAL WIRE LIGHTING 8
AWG

No. of Wires	From	To	Path Measurement (L.F.)															L.F.	Remarks
	CC01	LP06	CCO1	to	PB01	to	PB02	to	LP04	to	LP05	to	LP06	to		to		---	CABINET 1- CIRCUIT 1,3
4			15	12	15	48	15	56	8	159	8	135	8					1,916	MAIN FEEDER
				to		to		to		to		to		to		to		---	
	CC01	LP03	CC01	to	PB01	to	LP01	to	LP02	to	LP03	to		to		to		---	SUB-FEEDER
4			15	12	15	114	8	148	8	146	8							1,896	

No. of Wires	From	To	Path Measurement (L.F.)															L.F.	Remarks
	CC01	RRFB01	CC01	to	PB01	to	PB02	to	PB09	to	RRFB01	to		to		to		---	CABINET 1- CIRCUIT 6,8
4			15	12	15	48	15	502	15	6	8							2,544	MAIN FEEDER

	CC01	RRFB02	CC01	to	PB03	to	PB08	to	RRFBO2	to		to		to		to		---	SUB-FEEDER
4			15	74	15	569	15	7	8									2,812	

PROJECT TOTALS 9,168

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	MISCELLANEOUS QUANTITIES	SHEET 82	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\03-MQ\WATERST-MQ.DWG
LAYOUT NAME - 09
PLOT DATE : 11/1/2023 7:48 AM PLOT BY : JOSH FREWERD PLOT NAME : PLOT SCALE : 1" = 1'

WISDOT/CADDS SHEET 42

3

3

ROADWAY STAKING

STATION TO STATION	LOCATION	650.4500 CONSTRUCTION STAKING SUBGRADE L.F.	650.5000 CONSTRUCTION STAKING BASE L.F.	650.5500 CONSTRUCITON STAKING CURB & GUTTER L.F.	650.7000 CONSTRUCTION STAKING CONCRETE PAVEMENT L.F.	650.8501 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (PROJECT) EACH	650.9000 CONSTRUCTION STAKING CURB RAMPS EACH	650.9500 CONSTRUCTION STAKING SIDEWALK (PROJECT) EACH	650.9911 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL EACH	650.9920 CONSTRUCTION STAKING SLOPE STAKES L.F.	REMARKS
9+23 - 25+91	WATER ST	1668	-	-	1604	1	-	1	1	1604	
9+23 - 10+00	WATER ST	-	-	40	-	-	3	-	-	-	
10+00 - 11+00	WATER ST	-	-	-	-	-	5	-	-	-	
12+75 - 13+50	WATER ST	-	-	-	-	-	2	-	-	-	
15+50 - 16+50	WATER ST	-	-	-	-	-	3	-	-	-	
19+50 - 20+00	WATER ST	-	-	-	-	-	2	-	-	-	
21+75 - 22+50	WATER ST	-	-	-	-	-	4	-	-	-	
24+50 - 25+00	WATER ST	-	-	-	-	-	6	-	-	-	
25+00 - 25+91	WATER ST	-	-	62	-	-	3	-	-	-	
64+28 - 71+00	PEARL ST	672	-	81	642	-	3	-	-	672	
149+25 - 149+65	PARK ST	40	-	80	-	-	-	-	-	40	
140+30 - 140+55	ST JOHNS PL	25	-	30	10	-	-	-	-	25	
120+30 - 120+55	STATE ST	25	-	20	15	-	-	-	-	25	
110+30 - 110+55	WISCONSIN ST	25	-	30	10	-	-	-	-	25	
99+40 - 99+55	SHAWANO ST	15	-	-	15	-	-	-	-	15	
100+43 - 101+01	SHAWANO ST	58	-	22	47	-	-	-	-	58	
-	ASPHALT TIE IN'S	-	190	-	-	-	-	-	-	-	
	PROJECT TOTALS	2528	190	365	2343	1	31	1	1	2464	

SAWING ASPHALT 690.0150

STATION	LOCATION	LF	DESCRIPTION
9+52 RT	WATER ST	84	PARKING LOT
9+53 LT	WATER ST	60	PARKING LOT
10+94 RT	WATER ST	97	PARKING LOT
11+88 RT	WATER ST	23	DRIVEWAY
12+67 RT	WATER ST	130	PARKING LOT
12+97 LT	WISCONSIN ST	34	TIE IN
13+30 RT	WATER ST	157	PARKING LOT
13+67 LT	WATER ST	105	PARKING LOT
16+05 LT	STATE ST	39	TIE IN
16+62 RT	WATER ST	28	PARKING LOT/ DRIVEWAY
19+31 LT	WATER ST	71	PARKING LOT
21+95 RT	WATER ST	53	PARKING LOT
22+04 RT	WATER ST	31	DRIVEWAY BY WOLF RIVER
22+09 LT	ST JOHNS PL	32	TIE IN
22+46 RT	WATER ST	132	PARKING LOT
25+63 LT	WATER ST	10	PARKING LOT
64+88 LT	PEARL ST	32	DRIVEWAY
64+88 RT	PEARL ST	46	PARKING LOT
65+56 RT	PEARL ST	100	PARKING LOT
68+22 LT	PEARL ST	173	PARKING LOT
69+08 LT	PARK ST	36	TIE IN
69+15 RT	PEARL ST	283	PARKING LOT
70+53 LT	PEARL ST	63	PARKING LOT
71+00 LT&RT	PEARL ST	85	NORTH TIE IN
101+00	SHAWANO ST	40	NORTH TIE IN
	PROJECT TOTALS	1944	

SAWING CONCRETE 690.0250

STATION	LOCATION	LF	DESCRIPTION
9+23	WATER ST	58	WEST TIE IN/CURB/SIDEWALK
11+58 RT	WATER ST	23	SIDEWALK BY BUILDING
12+00 LT	WATER ST	230	SIDEWALK BY BUILDING
12+20 RT	WATER ST	23	SIDEWALK BY BUILDING
13+18 LT	WISCONSIN ST	2.5	EAST CURB
13+28 LT	WISCONSIN ST	5	SIDEWALK
14+35 RT	WATER ST	108	SIDEWALK BY BUILDING
14+58 LT	WATER ST	5	SIDEWALK
15+18 LT	WATER ST	20	SIDEWALK
15+63 RT	WATER ST	8	SIDEWALK
15+76 LT	STATE ST	8	WEST SIDEWALK/ CURB
16+38 LT	STATE ST	90	CURB/ SIDEWALK/ PARKING LOT
16+50 RT	WATER ST	2	CURB
16+71 RT	WATER ST	1	CURB
16+76 RT	WATER ST	1	CURB
18+25 LT	WATER ST	191	SIDEWALK BY BUILDING
19+02 LT	WATER ST	6.5	SIDEWALK/ CURB
19+29 LT	WATER ST	5.5	SIDEWALK/ CURB
19+50 RT	WATER ST	511	SIDEWALK BY BUILDING
21+00 LT	WATER ST	236	SIDEWALK BY BUILDING
21+85 RT	WATER ST	6	SIDEWALK
21+88 LT	ST JOHNS PL	9.5	WEST SIDEWALK/ CURB
22+04 RT	WATER ST	12	SIDEWALK SOUTH OF P-LOT
22+28 LT	ST JOHNS PL	10	EAST CURB/ SIDEWALK
23+01 RT	WATER ST	6.5	SIDEWALK
23+65 RT	WATER ST	121.5	SIDEWALK BY BUILDING
23+75 LT	WATER ST	216.5	SIDEWALK BY BUILDING
25+75	WATER ST	74	EAST TIE IN
64+28	PEARL ST	52	SOUTH TIE IN
65+09 LT	PEARL ST	5	SIDEWALK
65+16 RT	PEARL ST	19.5	PARKING LOT
65+64 LT	PEARL ST	41	SIDEWALK
67+00 LT	PEARL ST	102	SIDEWALK BY BUILDING
67+25 RT	PEARL ST	115	SIDEWALK BY BUILDING
68+92 LT	PARK ST	8	SOUTH SIDEWALK/ CURB
69+36 LT	PARK ST	7	NORTH SIDEWALK/ CURB
69+83 LT	PEARL ST	10	SIDEWALK
70+93 RT	E WAUPACA ST	2.5	SOUTH CURB TIE IN
70+95 LT	PEARL ST	5	SIDEWALK
71+00 LT	PEARL ST	2.5	WEST CURB TIE IN
99+40	SHAWANO ST	51.5	SOUTH TIE IN
100+66 RT	SHAWANO ST	10	SIDEWALK
101+01 LT	SHAWANO ST	10	WEST SIDEWALK/ CURB TIE IN
101+01 RT	SHAWANO ST	19	EAST SIDEWALK/ CURB TIE IN
	PROJECT TOTALS	2450.5	

LANDSCAPING SUMMARY

STATION	LOCATION	625.0100 TOPSOIL S.Y.	631.0300 SOD WATER MGAL	631.1000 SOD LAWN S.Y.
9+20 - 26+00 LT	WATER ST	72	1.2	72
9+20 - 26+00 RT	WATER ST	172	2.9	172
64+28 - 71+05 LT	PEARL ST	238	4.0	238
64+28 - 71+05 RT	PEARL ST	176	3.0	176
	PROJECT TOTALS	659	11	659

LIGHTING SUMMARY

LP / PBL	STATION	LOCATION	653.0154 PULL BOXES NON-CONDUCTIVE 24x36-INCH EACH	654.0105 CONCRETE BASES TYPE 5 EACH	654.0230 CONCRETE CONTROL CABINET BASES TYPE L30 EACH	659.2130 LIGHTING CONTROL CABINETS 120/240 30-INCH EACH	SPV.0060.03 LIGHTING ASSEMBLY SINGLE FIXTURE EACH	* 656.0201 ELECTRIC SERVICE METER BREAKER PEDESTAL EACH
CC01	66+56 33' RT.	PEARL ST	-	-	1	1	-	1
PB01	66+63 23' RT.	PEARL ST	1	-	-	-	-	-
PB02	66+55 23' LT.	PEARL ST	1	-	-	-	-	-
LP01	67+77 23' RT.	PEARL ST	-	1	-	-	1	-
LP02	69+25 23' RT.	PEARL ST	-	1	-	-	1	-
LP03	70+62 23' RT.	PEARL ST	-	1	-	-	1	-
LP04	67+10 23' LT.	PEARL ST	-	1	-	-	1	-
LP05	68+69 23' LT.	PEARL ST	-	1	-	-	1	-
LP06	70+03 23' LT.	PEARL ST	-	1	-	-	1	-
PB03	65+85 37' RT.	PEARL ST	1	-	-	-	-	-
LP07	64+63 30' RT.	PEARL ST	-	1	-	-	1	-
LP08	65+24 24' LT.	PEARL ST	-	1	-	-	1	-
LP09	23+22 23' RT.	WATER ST	-	1	-	-	1	-
LP10	21+66 23' RT.	WATER ST	-	1	-	-	1	-
LP11	20+22 24' RT.	WATER ST	-	1	-	-	1	-
RRFB01	19+83 18' LT.	WATER ST	-	-	-	-	-	-
RRFB02	19+71 18' RT.	WATER ST	-	-	-	-	-	-
LP12	19+03 24' RT.	WATER ST	-	1	-	-	1	-
LP13	17+59 23' RT.	WATER ST	-	1	-	-	1	-
PB08	19+71 23' RT.	WATER ST	1	-	-	-	-	-
PB09	19+84 23' LT.	WATER ST	1	-	-	-	-	-
LP14	16+24 23' RT.	WATER ST	-	1	-	-	1	-
LP15	14+78 23' RT.	WATER ST	-	1	-	-	1	-
LP16	13+38 23' RT.	WATER ST	-	1	-	-	1	-
LP17	12+09 23' RT.	WATER ST	-	1	-	-	1	-
PB06	10+92 23' LT.	WATER ST	1	-	-	-	-	-
PB07	10+92 23' RT.	WATER ST	1	-	-	-	-	-
CC02	9+60 56' LT.	WATER ST	-	-	1	1	-	1
LP18	11+19 23' LT.	WATER ST	-	1	-	-	1	-
LP19	12+72 23' LT.	WATER ST	-	1	-	-	1	-
LP20	14+26 23' LT.	WATER ST	-	1	-	-	1	-
LP21	15+60 23' LT.	WATER ST	-	1	-	-	1	-
LP22	16+89 23' LT.	WATER ST	-	1	-	-	1	-
LP23	18+24 23' LT.	WATER ST	-	1	-	-	1	-
LP24	19+65 23' LT.	WATER ST	-	1	-	-	1	-
LP25	20+98 23' LT.	WATER ST	-	1	-	-	1	-
LP26	22+45 23' LT.	WATER ST	-	1	-	-	1	-
LP27	23+91 23' LT.	WATER ST	-	1	-	-	1	-
		PROJECT TOTALS	7	27	2	2	27	2

* ADDITIONAL QUANTITIES INCLUDED ELSEWHERE

STORM SEWER PIPES

FROM	-	TO	LOCATION	608.0412 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 12-INCH LF	608.0415 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 15-INCH LF	608.0418 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 18-INCH LF	608.0424 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 24-INCH LF	608.0430 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 30-INCH LF	608.3012 STORM SEWER PIPE CLASS III-A 12-INCH LF	JOINT TIES* EACH	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE FT/FT
A1.1	-	A1.2	WATER ST	38	-	-	-	-	-	-	755.10	754.34	2.01%
A1.2	-	A1	WATER ST	12	-	-	-	-	-	-	754.34	754.09	2.02%
A2	-	A1	WATER ST	-	-	-	23	-	-	-	753.19	753.09	0.43%
A2.1	-	A2.2	WATER ST	39	-	-	-	-	-	-	755.10	754.71	1.01%
A2.2	-	A2	WATER ST	52	-	-	-	-	-	-	754.71	754.20	0.98%
A2.3	-	A2	WATER ST	70	-	-	-	-	-	-	755.25	754.20	1.50%
A3	-	A2	WATER ST	-	-	-	70	-	-	-	753.40	753.19	0.30%
A3.1	-	A3	WATER ST	11	-	-	-	-	-	-	754.61	754.40	1.98%
A3.2	-	A3	WATER ST	50	-	-	-	-	-	-	754.70	754.40	0.60%
A4	-	A3	WATER ST	-	-	-	33	-	-	-	753.50	753.40	0.30%
B1	-	B2	WATER ST	-	-	-	89	-	-	3	753.49	753.00	0.55%
B2.1	-	B2.2	WATER ST	39	-	-	-	-	-	-	755.09	754.70	1.00%
B2.2	-	B2	WATER ST	71	-	-	-	-	-	-	754.70	753.99	0.99%
B2	-	B3	WATER ST	-	-	-	49	-	-	-	753.70	753.49	0.43%
B3.2	-	B3.1	WATER ST	39	-	-	-	-	-	-	755.46	755.07	1.00%
B3.2	-	B3	WATER ST	57	-	-	-	-	-	-	755.07	754.50	1.00%
B3	-	B3.3	WATER ST	44	-	-	-	-	-	-	755.16	754.50	1.50%
B4	-	B3	WATER ST	-	-	4	-	-	-	-	753.86	753.76	2.46%
C1	-	C2	WATER ST	-	-	-	33	-	-	-	753.40	753.16	0.72%
C2.2	-	C2.1	WATER ST	38	-	-	-	-	-	-	755.20	754.74	1.20%
C2	-	C2.2	WATER ST	-	-	-	25	-	-	-	753.74	753.40	1.38%
C2.3	-	C2.2	WATER ST	6	-	-	-	-	-	-	755.00	754.74	4.53%
C3	-	C2	WATER ST	-	-	27	-	-	-	-	753.61	753.50	0.41%
C3.1	-	C3	WATER ST	8	-	-	-	-	-	-	755.14	754.50	8.25%
C3.2	-	C3	WATER ST	32	-	-	-	-	-	-	754.68	754.50	0.57%
C4	-	C3	WATER ST	-	-	257	-	-	-	-	754.73	753.71	0.40%
C4.1	-	C4	WATER ST	8	-	-	-	-	-	-	755.53	755.23	4.00%
C5	-	C4	WATER ST	-	-	42	-	-	-	-	754.90	754.73	0.41%
C5.1	-	C5.2	WATER ST	53	-	-	-	-	-	-	756.11	755.85	0.50%
C5	-	C5.2	WATER ST	33	-	-	-	-	-	-	755.85	755.50	1.06%
C6	-	C5	WATER ST	24	-	-	-	-	-	-	755.50	755.25	1.06%
C7	-	C6	WATER ST	39	-	-	-	-	-	-	755.89	755.50	1.00%
D1	-	D2	WATER ST	54	-	-	-	-	-	-	755.55	754.80	1.40%
D2	-	D3	WATER ST	42	-	-	-	-	-	-	755.74	755.55	0.46%
D3	-	D4	WATER ST	53	-	-	-	-	-	-	756.00	755.74	0.49%
D4.2	-	D4.1	WATER ST	39	-	-	-	-	-	-	756.54	756.35	0.50%
D4	-	D4.2	WATER ST	70	-	-	-	-	-	-	756.35	756.00	0.50%
D4	-	D4.3	WATER ST	40	-	-	-	-	-	-	756.60	756.00	1.50%
D4	-	D4.4	WATER ST	23	-	-	-	-	-	-	756.46	756.00	2.00%
D4	-	D5	WATER ST	39	-	-	-	-	-	-	756.19	756.00	0.49%
D5.1	-	D5	WATER ST	34	-	-	-	-	-	-	756.36	756.19	0.50%
E2	-	E1	WATER ST	143	-	-	-	-	-	-	755.01	753.01	1.40%
E2.1	-	E2	WATER ST	24	-	-	-	-	-	-	756.86	756.50	1.50%
E2	-	E2.2	WATER ST	34	-	-	-	-	-	-	756.84	756.50	1.01%
E2	-	E3	WATER ST	34	-	-	-	-	-	-	756.84	756.50	1.01%
E3.2	-	E3.1	WATER ST	36	-	-	-	-	-	-	757.27	757.09	0.51%
E3.2	-	E3	WATER ST	24	-	-	-	-	-	-	757.09	756.84	1.02%
C5	-	EXIST	WATER ST	-	-	-	-	-	18	-	755.25	755.00	1.39%
F2	-	F1	WATER ST	-	11	-	-	-	-	-	753.20	753.10	0.94%
F3	-	F2	WATER ST	-	45	-	-	-	-	-	753.40	753.20	0.44%
F3.1	-	F3.2	WATER ST	41	-	-	-	-	-	-	756.00	755.60	0.98%
F3.2	-	F3.3	WATER ST	29	-	-	-	-	-	-	755.60	755.30	1.05%
F3.3	-	F3	WATER ST	37	-	-	-	-	-	-	755.30	755.00	0.81%
F4	-	F3	WATER ST	18	-	-	-	-	-	-	753.50	753.40	0.54%
F5	-	F4	WATER ST	13	-	-	-	-	-	-	753.60	753.50	0.77%
			TOTALS	1590	56	330	289	33	18	3			

*NON-BID ITEM: FOR INFORMATION ONLY

STORM SEWER STRUCTURES

STRUCTURE	STATION	OFFSET*	LOCATION	522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	611.0535 MANHOLE COVERS TYPE J-SPECIAL EACH	611.0612 INLET COVERS TYPE C EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0666 INLET COVERS TYPE Z EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.3003 INLETS 3-FT DIAMETER EACH	611.3230 INLETS 2X3-FT EACH	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	RIM** ELEVATION	INVERT*** ELEVATION	DEPTH**** FT
A1	9+71.38	41.32' RT	WATER ST	-	1	-	-	-	1	-	-	-	1	759.45	752.59	5.62
A1.1	10+19.63	48.94' RT	WATER ST	-	-	-	1	-	-	-	-	1	1	759.25	755.10	3.32
A1.2	9+81.74	48.11' RT	WATER ST	-	-	-	1	-	-	-	-	1	1	759.20	754.34	4.03
A2	9+79.69	19.37' RT	WATER ST	-	1	-	-	-	1	-	-	-	1	758.82	753.19	4.64
A2.1	9+27.55	20.27' LT	WATER ST	-	-	-	1	-	-	-	-	1	1	758.38	755.10	2.45
A2.2	9+27.56	18.50' RT	WATER ST	-	-	-	1	-	-	-	-	1	1	758.16	754.71	2.61
A2.3	10+49.72	19.50' RT	WATER ST	-	-	-	1	-	-	-	-	1	1	758.71	755.25	2.62
A3	9+89.07	50.01' LT	WATER ST	-	1	-	-	-	1	-	-	-	1	758.19	753.40	3.80
A3.1	9+78.45	50.25' LT	WATER ST	-	-	-	1	-	-	-	-	1	1	758.01	754.61	2.57
A3.2	10+39.10	51.04' LT	WATER ST	-	-	-	1	-	-	-	-	1	1	758.22	754.70	2.69
A4	9+88.86	82.92' LT	WATER ST	-	1	-	-	-	1	-	-	-	1	758.30	753.50	3.81
B1	12+94.55	116.83' RT	WATER ST	1	-	-	-	-	-	-	-	-	1		753.00	
B2	12+96.00	27.50' RT	WATER ST	-	1	-	-	-	1	-	-	-	1	758.88	753.49	4.40
B2.1	12+25.00	19.50' LT	WATER ST	-	-	-	1	-	-	-	-	1	1	758.55	755.09	2.63
B2.2	12+25.00	19.50' RT	WATER ST	-	-	-	1	-	-	-	-	1	1	758.46	754.70	2.93
B3	13+13.00	18.50' LT	WATER ST	-	1	-	-	-	1	-	-	-	1	758.61	753.70	3.92
B3.1	13+70.00	19.50' RT	WATER ST	-	-	-	1	-	-	-	-	1	1	758.44	755.46	2.15
B3.2	13+70.00	19.50' LT	WATER ST	-	-	-	1	-	-	-	-	1	1	758.44	755.07	2.54
B3.3	12+82.43	50.50' LT	WATER ST	-	-	-	1	-	-	-	-	1	1	758.62	755.16	2.62
C2	16+15.00	12.00' LT	WATER ST	-	1	-	-	-	-	1	-	-	1	758.94	753.40	4.59
C2.1	15+80.27	50.51' LT	WATER ST	-	-	-	1	-	-	-	-	1	1	758.56	755.20	2.53
C2.2	16+15.62	36.70' LT	WATER ST	-	1	-	-	-	1	-	-	-	1	758.74	753.74	4.01
C2.3	16+21.27	37.71' LT	WATER ST	-	-	-	1	-	-	-	-	1	1	758.71	755.00	2.88
C3	16+42.00	12.00' LT	WATER ST	-	1	-	-	-	1	-	-	-	1	758.85	753.61	4.21
C3.1	16+44.00	19.50' LT	WATER ST	-	-	-	1	-	-	-	-	1	1	758.67	755.14	2.70
C3.2	16+42.00	19.50' RT	WATER ST	-	-	-	1	-	-	-	-	1	1	758.85	754.68	3.34
C4	18+99.00	12.00' LT	WATER ST	-	1	-	-	-	1	-	-	-	1	759.50	754.73	3.74
C4.1	18+99.00	19.50' LT	WATER ST	-	-	-	1	-	-	-	-	1	1	759.32	755.53	2.96
C5	19+41.39	12.00' LT	WATER ST	-	-	1	-	-	1	-	-	-	1	759.37	754.90	3.44
C5.1	20+04.00	19.50' RT	WATER ST	-	-	-	1	-	-	-	-	1	1	759.47	756.11	2.53
C5.2	19+51.50	19.50' RT	WATER ST	-	-	-	1	-	-	-	-	1	1	759.34	755.85	2.66
C6	19+65.00	13.50' LT	WATER ST	-	-	-	1	-	-	-	-	1	1	759.30	755.50	2.97
C7	20+04.00	19.50' LT	WATER ST	-	-	-	1	-	-	-	-	1	1	759.29	755.89	2.56
D1	22+04.15	132.25' RT	WATER ST	-	-	1	-	-	-	-	1	-	1	757.72	754.80	1.85
D2	22+04.01	78.64' RT	WATER ST	-	-	-	1	-	-	-	-	1	1	758.94	755.55	2.56
D3	22+03.84	36.92' RT	WATER ST	-	1	-	-	-	1	-	-	-	1	760.34	754.91	4.19
D4	22+25.00	12.00' LT	WATER ST	-	1	-	-	-	1	-	-	-	1	760.09	755.17	3.68
D4.1	21+55.00	19.50' RT	WATER ST	-	-	-	1	-	-	-	-	1	1	759.84	756.55	2.46
D4.2	21+55.00	19.50' LT	WATER ST	-	-	-	1	-	-	-	-	1	1	759.66	756.35	2.48
D4.3	22+50.00	19.50' RT	WATER ST	-	-	-	1	-	-	-	-	1	1	760.18	756.60	2.74
D4.4	22+47.00	19.50' LT	WATER ST	-	-	-	1	-	-	-	-	1	1	759.98	756.46	2.69
D5	22+25.74	50.50' LT	WATER ST	-	-	-	1	-	-	-	-	1	1	759.51	756.19	2.49
D5.1	21+91.74	50.50' LT	WATER ST	-	-	-	1	-	-	-	-	1	1	759.62	756.36	2.43
E2	24+93.07	47.82' RT	WATER ST	-	1	-	-	-	1	-	-	-	1	760.79	754.18	5.37
E2.1	24+69.15	48.48' RT	WATER ST	-	-	-	1	-	-	-	-	1	1	760.57	756.86	2.88
E2.2	25+25.82	40.14' RT	WATER ST	-	-	-	1	-	-	-	-	1	1	760.46	756.84	2.78
E3	24+84.49	15.31' RT	WATER ST	-	-	-	-	1	-	-	1	-	1	760.76	756.58	3.10
E3.1	24+66.00	19.50' LT	WATER ST	-	-	-	1	-	-	-	-	1	1	760.71	757.27	2.61
E3.2	24+60.00	15.50' RT	WATER ST	-	1	-	-	-	1	-	-	-	1	760.85	756.26	3.35
F2	69+47.00	19.25' RT	PEARLST	-	-	-	1	-	-	-	-	1	1	759.43	753.20	5.41
F3	69+28.00	21.50' LT	PEARLST	-	1	-	-	-	1	-	-	-	1	759.55	752.71	5.60
F3.1	68+62.00	19.25' RT	PEARLST	-	-	-	1	-	-	-	-	1	1	759.68	756.00	2.85
F3.2	68+75.31	19.25' LT	PEARLST	-	-	-	1	-	-	-	-	1	1	759.46	755.60	3.03
F3.3	68+95.56	39.51' LT	PEARLST	-	-	-	1	-	-	-	-	1	1	759.53	755.30	3.40
F4	69+32.06	39.54' LT	PEARLST	-	-	-	1	-	-	-	-	1	1	759.73	753.50	5.40
			PROJECT TOTALS	1	15	2	36	1	15	1	2	36	55			

REMARKS:
*STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE
**RIM ELEV IS AT THE INLET COVER FLANGE LOCATION
***FOR STRUCTURES WITH SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE SUMP. FOR STRUCTURES WITHOUT SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE LOWEST PIPE FLOW LINE
****DEPTH = RIM ELEV - TOP OF STRUCTURE BASE ELEV - COVER HEIGHT - 6-INCH ADJUSTMENT RING HEIGHT

3

CABLE TRAFFIC SIGNAL & LOOP DETECTOR LEAD IN CABLE

FROM	TO	* 655.0230 5-14 AWG LF	* 655.0240 7-14 AWG LF	* 655.0270 15-14 AWG LF	* 655.0700 LOOP DETECTOR LEAD IN CABLE LF
CB1	SB1	-	-	130	-
SB1	HEAD 1	18	-	-	-
SB1	HEAD 5	18	-	-	-
SB1	HEAD 41	13	-	-	-
SB1	HEAD B	-	-	-	9
CB1	SB2	-	-	123	-
SB2	HEAD 12	33	-	-	-
SB2	HEAD 62	13	-	-	-
SB2	HEAD B	-	-	-	9
CB1	SB3	-	-	50	-
SB3	HEAD 7	20	-	-	-
SB3	HEAD 11	20	-	-	-
SB3	HEAD 61	13	-	-	-
SB3	HEAD B	-	-	-	9
CB1	SB4	-	-	53	-
SB4	HEAD 3	33	-	-	-
SB4	HEAD 82	13	-	-	-
SB4	HEAD B	-	-	-	9
CB1	SB5	-	-	128	-
SB5	HEAD 2	18	-	-	-
SB5	HEAD 4	18	-	-	-
SB5	HEAD 81	13	-	-	-
SB5	HEAD B	-	-	-	9
CB1	SB6	-	-	133	-
SB6	HEAD 9	-	50	-	-
SB6	HEAD 22	13	-	-	-
SB6	HEAD B	-	-	-	9
CB1	SB7	-	-	218	-
SB7	HEAD 8	-	25	-	-
SB7	HEAD 10	18	-	-	-
SB7	HEAD 21	13	-	-	-
SB7	HEAD B	-	-	-	9
CB1	SB8	-	-	212	-
SB8	HEAD 6	30	-	-	-
SB8	HEAD 42	13	-	-	-
SB8	HEAD B	-	-	-	9
	PROJECT TOTALS	330	75	1,047	72

* ADDITIONAL QUANTITIES INCLUDED ELSEWHERE

TRAFFIC SIGNAL CONTROLLER & CABINET

BASE NO.	* SPV.0060.05 TRAFFIC SIGNAL CONTROLLER & CABINET EACH	* 654.0217 CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL EACH	* 656.0201 ELECTRIC SERVICE METER BREAKER PEDESTAL EACH	* 658.5070 SIGNAL MOUNTING HARDWARE (PEARL STREET) EACH
CB1	1	1	1	1
PROJECT TOTALS	1	1	1	1

* ADDITIONAL QUANTITIES INCLUDED ELSEWHERE

CABLE TYPE UF 2-12 AWG GROUNDED
655.0305

FROM	TO	* LF
CB1	SB4	52
CB1	SB6	133
CB1	SB8	180
CB1	SB2	127
	PROJECT TOTAL	492

* ADDITIONAL QUANTITIES INCLUDED ELSEWHERE

CONCRETE BASES

BASE NO.	STATION	LOCATION	* 654.0101 TYPE 1 EACH	* 654.0102 TYPE 2 EACH
SB1	24+70 19' RT.	N. WATER ST	1	-
SB2	24+84 27' RT.	N. WATER ST	-	1
SB3	25+36 31' RT.	N. WATER ST	1	-
SB4	25+44 21' RT.	N. WATER ST	-	1
SB5	25+44 25' LT.	N. WATER ST	1	-
SB6	25+33 35' LT.	N. WATER ST	-	1
SB7	24+80 36' LT.	N. WATER ST	1	-
SB8	24+71 23' LT.	N. WATER ST	-	1
	PROJECT TOTALS		4	4

* ADDITIONAL QUANTITIES INCLUDED ELSEWHERE

ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG
655.0515

FROM	TO	* LF
CB-1	SB4	87
SB4	SB5	142
SB5	SB6	85
SB6	SB7	153
SB7	SB8	74
SB8	SB1	129
SB1	SB2	83
SB2	SB3	138
SB3	CB1	55
PB1	CB1	24
PB2	SB6	26
PB3	SB7	26
PB4	SB2	24
PB5	SB3	26
PB6	SB5	50
	PROJECT TOTAL	1,122

* ADDITIONAL QUANTITIES INCLUDED ELSEWHERE

CONDUIT RIGID NONMETALLIC
SCHEDULE 40

FROM	TO	* 652.0235 3-INCH LF	* 652.0225 2-INCH LF
CB01	PB1	18	-
CB01	PB5	12	-
PB1	SB4	-	11
PB1	SB3	-	7
PB1	PB2	128	-
PB2	SB5	-	7
PB2	PB6	14	-
PB2	SB6	-	16
PB2	PB3	140	-
PB3	SB7	-	11
PB3	SB8	-	6
PB3	PB4	94	-
PB4	SB1	-	13
PB4	SB2	-	10
PB4	PB5	130	-
		-	
	PROJECT TOTALS	536	81

* ADDITIONAL QUANTITIES INCLUDED ELSEWHERE

PULL BOXES STEEL 24X42-INCH
653.0140

PULL BOX NO.	STATION	LOCATION	* EA
PB1	25+43 31' RT.	N. WATER ST	1
PB2	25+43 32' LT.	N. WATER ST	1
PB3	24+73 28' LT.	N. WATER ST	1
PB4	24+82 18' RT.	N. WATER ST	1
PB5	25+35 42' RT.	N. WATER ST	1
PB6	25+54 24' LT.	N. WATER ST	1
	PROJECT TOTAL		6

* ADDITIONAL QUANTITIES INCLUDED ELSEWHERE

TRAFFIC SIGNAL QUANTITIES - PEARL ST AND WATER ST

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	MISCELLANEOUS QUANTITIES	SHEET 87	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\03-MQ\WATERST-MQ.DWG
LAYOUT NAME - 14
PLOT DATE : 11/1/2023 7:48 AM PLOT BY : JOSH FREWERD PLOT NAME : PLOT SCALE : 1" = 1'

WISDOT/CADDS SHEET 42

3

TRAFFIC DETECTOR LOOPS

LOOP #	HOME RUN PB	SIZE (FT) X (FT)	NO. OF TURNS	* 652.0800 CONDUIT LOOP DETECTOR LF	* 655.0700 LOOP DETECTOR LEAD IN CABLE LF	* 655.0800 LOOP DETECTOR WIRE LF
PB6	LOOP 21	6 X 12	5	52	144	212
PB6	LOOP 22	6 X 12	4	45	144	162
PB6	LOOP 23	6 X 12	3	48	144	132
PB5	LOOP 31	6 X 20	4	77	35	258
PB5	LOOP 32	6 X 20	3	75	35	202
PB4	LOOP 61	6 X 20	4	65	109	282
PB4	LOOP 62	6 X 20	3	89	109	182
		PROJECT TOTALS		451	720	1,430

* ADDITIONAL QUANTITIES INCLUDED ELSEWHERE

TRAFFIC SIGNAL FACES, BACKPLATES, AND LED MODULES

SIGNAL HEAD NO	SIGNAL BASE NO	* 658.0173 TRAFFIC SIGNAL FACE 3-12 INCH VERTICAL EACH	* 658.0175 TRAFFIC SIGNAL FACE 5-12 INCH VERTICAL EACH	* 658.0175 TRAFFIC SIGNAL FACE 5-12 INCH HORIZONTAL EACH	* 658.0416 PEDESTRIAN SIGNAL FACE 16-INCH EACH
1	SB1	1	-	-	-
5	SB1	1	-	-	-
41	SB1	-	-	-	1
12	SB2	1	-	-	-
62	SB2	-	-	-	1
11	SB3	1	-	-	-
7	SB3	1	-	-	-
61	SB3	-	-	-	1
3	SB4	1	-	-	-
82	SB4	-	-	-	1
2	SB5	1	-	-	-
4	SB5	1	-	-	-
81	SB5	-	-	-	1
9	SB6	-	-	1	-
22	SB6	-	-	-	1
8	SB7	-	1	-	-
10	SB7	1	-	-	-
21	SB7	-	-	-	1
6	SB8	1	-	-	-
42	SB8	-	-	-	1
	PROJECT TOTALS	10	1	1	8

* ADDITIONAL QUANTITIES INCLUDED ELSEWHERE

BASES, TRAFFIC SIGNAL STANDARDS, PEDESTRIAN PUSH BUTTONS, POLES, ARMS, AND LUMINAIRES

SIGNAL BASE NO.	* 657.0100 PEDESTAL BASES EACH	* 657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2 INCH BOLT CIRCLE EACH	* 657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT EACH	* 657.0420 TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT EACH	* 658.0500 PEDESTRIAN PUSH BUTTONS EACH	* 657.0585 TROMBONE ARM 15-FT EACH	* 657.0590 TROMBONE ARM 20-FT EACH	* 657.0310 POLES TYPE 3 EACH	* 657.0609 LUMINAIRE ARMS SINGLE MEMBER 4-INCH CLAMP 6-FT EACH	* 659.1115 LUMINAIRES UTILITY LED A EACH
SB1	1	-	-	1	1	-	-	-	-	-
SB2	-	1	-	-	1	1	-	1	2	2
SB3	1	-	-	1	1	-	-	-	-	-
SB4	-	1	-	-	1	1	-	1	1	1
SB5	1	-	-	1	1	-	-	-	-	-
SB6	-	1	-	-	1	-	1	1	1	1
SB7	1	-	1	-	1	-	-	-	-	-
SB8	-	1	-	-	1	1	-	1	1	1
PROJECT TOTALS	4	4	1	3	8	3	1	4	5	5

* ADDITIONAL QUANTITIES INCLUDED ELSEWHERE

TRAFFIC SIGNAL QUANTITIES - PEARL ST AND WATER ST

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	MISCELLANEOUS QUANTITIES	SHEET 88	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\03-MQ\WATERST-MQ.DWG
LAYOUT NAME - 15
PLOT DATE : 11/1/2023 7:49 AM PLOT BY : JOSH FREWERD PLOT NAME : PLOT SCALE : 1" = 1'

3

CABLE TRAFFIC SIGNAL & LOOP DETECTOR LEAD IN CABLE

FROM	TO	* 655.0230 5-14 AWG LF	* 655.0240 7-14 AWG LF	* 655.0270 15-14 AWG LF	* 655.0700 LOOP DETECTOR LEAD IN CABLE LF
CB1	SB1	-	-	200	-
SB1	HEAD 1	18	-	-	-
SB1	HEAD 5	18	-	-	-
SB1	HEAD 41	13	-	-	-
SB1	HEAD B	-	-	-	9
CB1	SB2	-	-	144	-
SB2	HEAD 12		50	-	-
SB2	HEAD 62	13	-	-	-
SB2	HEAD B	-	-	-	9
CB1	SB3	-	-	231	-
SB3	HEAD 7	20	-	-	-
SB3	HEAD 11		25	-	-
SB3	HEAD 61	13	-	-	-
SB3	HEAD B	-	-	-	9
CB1	SB4	-	-	220	-
SB4	HEAD 3	40	-	-	-
SB4	HEAD 82	13	-	-	-
SB4	HEAD B	-	-	-	9
CB1	SB5	-	-	133	-
SB5	HEAD 2	18	-	-	-
SB5	HEAD 4	18	-	-	-
SB5	HEAD 81	13	-	-	-
SB5	HEAD B	-	-	-	9
CB1	SB6	-	-	126	-
SB6	HEAD 9	18	-	-	-
SB6	HEAD 22	13	-	-	-
SB6	HEAD B	-	-	-	9
CB1	SB7	-	-	52	-
SB7	HEAD 8	18	-	-	-
SB7	HEAD 10	18	-	-	-
SB7	HEAD 21	13	-	-	-
SB7	HEAD B	-	-	-	9
CB1	SB8	-	-	53	-
SB8	HEAD 6	50	-	-	-
SB8	HEAD 42	13	-	-	-
SB8	HEAD B	-	-	-	9
	PROJECT TOTALS	340	75	1,159	72

* ADDITIONAL QUANTITIES INCLUDED ELSEWHERE

CABLE TYPE UF 2-12 AWG GROUNDED
655.0305

FROM	TO	* LF
CB1	SB8	51
CB1	SB2	141
CB1	SB4	188
CB1	SB6	124
	PROJECT TOTAL	504

* ADDITIONAL QUANTITIES INCLUDED ELSEWHERE

CONCRETE BASES

BASE NO.	STATION	LOCATION	* 654.0101 TYPE 1 EACH	* 654.0102 TYPE 2 EACH
SB1	9+49 23' RT.	N. WATER ST	1	-
SB2	9+71 35' RT.	N. WATER ST	-	1
SB3	10+25 35' RT.	N. WATER ST	1	-
SB4	10+35 34' RT.	N. WATER ST	-	1
SB5	10+36 19' LT.	N. WATER ST	1	-
SB6	10+20 29' LT.	N. WATER ST	-	1
SB7	9+71 34' LT.	N. WATER ST	1	-
SB8	9+56 31' LT.	N. WATER ST	-	1
		PROJECT TOTALS	4	4

* ADDITIONAL QUANTITIES INCLUDED ELSEWHERE

CONDUIT RIGID NONMETALLIC
SCHEDULE 40

FROM	TO	* 652.0235 3-INCH LF	* 652.0225 2-INCH LF
CB1	PB1	14	-
CB1	PB5	14	-
PB1	PB2	160	-
PB1	SB2	-	7
PB2	PB6	42	-
PB6	SB1	-	10
PB2	PB3	126	-
PB3	SB3	-	16
PB3	SB4	-	5
PB3	PB4	108	-
PB4	SB5	-	17
PB4	SB6	-	10
PB4	PB5	120	-
PB5	SB7	-	11
PB5	PB7	30	-
PB1	SB8	-	12
PROJECT TOTALS		614	88

* ADDITIONAL QUANTITIES INCLUDED ELSEWHERE

TRAFFIC SIGNAL CONTROLLER & CABINET

BASE NO.	* SPV.0060.05 TRAFFIC SIGNAL CONTROLLER & CABINET EACH	* 654.0217 CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL EACH	* 656.0201 ELECTRIC SERVICE METER BREAKER PEDESTAL EACH	* 658.5070 SIGNAL MOUNTING HARDWARE (SHAWANO STREET) EACH
CB1	1	1	1	1
PROJECT TOTALS	1	1	1	1

* ADDITIONAL QUANTITIES INCLUDED ELSEWHERE

ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG
655.0515

FROM	TO	* LF
CB1	SB8	96
SB8	SB1	194
SB1	SB2	115
SB2	SB3	139
SB3	SB4	87
SB4	SB5	137
SB5	SB6	88
SB6	SB7	143
SB7	CB1	57
PB1	CB1	36
PB2	SB2	21
PB6	SB1	24
PB3	SB4	20
PB4	SB5	31
PB5	SB8	29
PB7	SB7	45
	PROJECT TOTAL	1,262

* ADDITIONAL QUANTITIES INCLUDED ELSEWHERE

PULL BOXES STEEL 24X42-INCH
653.0140

PULL BOX NO.	STATION	LOCATION	* EA
PB1	9+62 40' LT.	N. WATER ST	1
PB2	9+77 38' RT.	N. WATER ST	1
PB3	10+39 31' RT.	N. WATER ST	1
PB4	10+19 19' LT.	N. WATER ST	1
PB5	9+64 42' LT.	N. WATER ST	1
PB6	9+40 23' RT.	N. WATER ST	1
	PREOJCT TOTAL		6

* ADDITIONAL QUANTITIES INCLUDED ELSEWHERE

3

TRAFFIC SIGNAL QUANTITIES - SHAWANO ST AND WATER ST

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	MISCELLANEOUS QUANTITIES	SHEET 89	E

3

TRAFFIC DETECTOR LOOPS

LOOP #	HOME RUN PB	SIZE (FT) X (FT)	NO. OF TURNS	* 652.0800 CONDUIT LOOP DETECTOR LF	* 655.0700 LOOP DETECTOR LEAD IN CABLE LF	* 655.0800 LOOP DETECTOR WIRE LF
PB4	LOOP 21	6 X 20	4	96	111	296
PB4	LOOP 22	6 X 20	3	71	111	194
PB7	LOOP 71	6 X 20	4	73	81	248
PB7	LOOP 72	6 X 20	3	62	81	194
PB6	LOOP 61	6 X 10	5	45	188	186
PB6	LOOP 62	6 X 10	4	43	188	150
PB6	LOOP 63	6 X 10	3	45	188	120
			PROJECT TOTALS	435	948	1,388

* ADDITIONAL QUANTITIES INCLUDED ELSEWHERE

TRAFFIC SIGNAL FACES

SIGNAL HEAD NO.	SIGNAL BASE NO.	* 658.0173 TRAFFIC SIGNAL FACE 3-12 INCH VERTICAL EACH	* 658.0175 TRAFFIC SIGNAL FACE 5-12 INCH VERTICAL EACH	* 658.0175 TRAFFIC SIGNAL FACE 5-12 INCH HORIZONTAL EACH	* 658.0416 PEDESTRIAN SIGNAL FACE 16-INCH EACH
1	SB1	1	-	-	-
5	SB1	1	-	-	-
41	SB1	-	-	-	1
12	SB2	-	-	1	-
62	SB2	-	-	-	1
11	SB3	-	1	-	-
7	SB3	1	-	-	-
61	SB3	-	-	-	1
3	SB4	1	-	-	-
82	SB4	-	-	-	1
2	SB5	1	-	-	-
4	SB5	1	-	-	-
81	SB5	-	-	-	1
9	SB6	1	-	-	-
22	SB6	-	-	-	1
8	SB7	1	-	-	-
10	SB7	1	-	-	-
21	SB7	-	-	-	1
6	SB8	1	-	-	-
42	SB8	-	-	-	1
	PROJECT TOTALS	10	1	1	8

* ADDITIONAL QUANTITIES INCLUDED ELSEWHERE

PEDESTAL BASES, TRAFFIC SIGNAL STANDARDS, PEDESTRIAN PUSH BUTTONS, POLES, MONOTUBE POLES & ARMS

SIGNAL BASE NO.	* 657.0100 PEDESTAL BASES EACH	* 657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2 INCH BOLT CIRCLE EACH	* 657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT EACH	* 657.0420 TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT EACH	* 658.0500 PEDESTRIAN PUSH BUTTONS EACH	* 657.0585 TROMBONE ARM 15-FT EACH	* 657.0590 TROMBONE ARM 20-FT EACH	657.0595 TROMBONE ARM 25-FT EACH	* 657.0310 POLES TYPE 3 EACH	* 657.0609 LUMINAIRE ARMS SINGLE MEMBER 4-INCH CLAMP 6-FT EACH	* 659.1115 LUMINAIRES UTILITY LED A EACH
SB1	1	-	-	1	1	-	-	-	-	-	-
SB2	-	1	-	-	1	-	1	-	1	1	1
SB3	1	-	1	-	1	-	-	-	-	-	-
SB4	-	1	-	-	1	-	1	-	1	1	1
SB5	1	-	-	1	1	-	-	-	-	-	-
SB6	-	1	-	-	1	1	-	-	1	2	2
SB7	1	-	-	1	1	-	-	-	-	-	-
SB8	-	1	-	-	1	-	-	1	1	1	1
PROJECT TOTALS	4	4	1	3	8	1	2	1	4	5	5

* ADDITIONAL QUANTITIES INCLUDED ELSEWHERE

TRAFFIC SIGNAL QUANTITIES - SHAWANO ST AND WATER ST

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	MISCELLANEOUS QUANTITIES	SHEET 90	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\03-MQ\WATERST-MQ.DWG
LAYOUT NAME - 17
PLOT DATE : 11/1/2023 7:49 AM PLOT BY : JOSH FREWERD PLOT NAME : PLOT SCALE : 1" = 1'

3

INSTALL TREE GRATE AND CU-SOIL

STATION	LOCATION	SPV.0060.06 INSTALL TREE GRATE EACH	SPV.0035.01 CU-SOIL CY	645.0140 GEOTEXTILE TYPE SAS SY
10+75 RT	WATER ST	1	6	4
12+63 RT	WATER ST	1	6	4
13+80 LT	WATER ST	1	6	4
22+59 RT	WATER ST	1	6	4
68+25 LT	PEARL ST	1	6	4
68+37 RT	PEARL ST	1	6	4
	PROJECT TOTALS	6	36	24

REMOVE AND SALVAGE TRAFFIC SIGNALS

LOCATION	SPV.0060.08 EACH	SPV.0060.09 EACH
WATER ST & SHAWANO ST	1	-
WATER ST & PEARL ST	-	1
PROJECT TOTALS	1	1

STORM SEWER LATERAL 6-INCH
SPV.0090.03

STATION	LOCATION	LF
17+20	WATER ST LT	45
20+05	WATER ST LT	10
24+50	WATER ST LT	35
	PROJECT TOTALS	90

SALVAGE PAVER BRICKS
SPV.0165.01

STATION	LOCATION	SF
15+63 RT	WATER ST	44
	PROJECT TOTAL	44

120VAC POWERED WARNING RRFB CROSSWALK SYSTEM

STATION	LOCATION	652.0210 CONDUIT RIGID NONMETALLIC SCHEDULE 40 1-INCH LF	* 654.0101 CONCRETE BASES TYPE 1 EACH	SPV.0060.01 RRFB ASSEMBLY EACH
19+71 18' RT.	WATER ST	650	1	1
19+83 18' LT.	WATER ST	570	1	1
	PROJECT TOTALS	1220	2	2

* ADDITIONAL QUANTITIES INCLUDED ELSEWHERE

CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W LINE
PROPERTY LINE
LOT, TIE, AND OTHER MINOR LINES
SLOPE INTERCEPT
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC) — W (TYPE)
FEE ACQUISITION AREA (HATCHING VARIES BY OWNER)
TEMP. LIMITED EASEMENT AREA
EASEMENT AREA (HIGHWAY, PERMANENT LIMITED, OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING
BRIDGE

PARCEL NUMBER 25
UTILITY NUMBER 40
SECTION CORNER
R/W MONUMENT
NON-MONUMENTED R/W TLE OR PLE POINT
NOTATION FOR COMBUSTABLE FLUIDS — CAUTION
FOUND IRON PIN IP
VALVE (GAS, WATER, ETC.) (TYPE)
NOTATION FOR HIGH VOLTAGE TRANSMISSION LINES — CAUTION
SIGN SIGN
OFF-PREMISE SIGN #1-25 SIGN

ACCESS CONTROLLED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)
NATIONAL GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
PARALLEL OFFSETS

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	☒

	NON-COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		

CURVE DATA ABBREVIATIONS

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 ABBREVIATIONS

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

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), WAUPACA COUNTY, NAD83 1991 IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 3/4" X 24" REBAR) AND ARE PLACED PRIOR TO OR AT THE TIME OF LAND TITLE TRANSFER.

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

N. WATER STREET
BEGIN RELOCATION ORDER STA 9+00.00
Y=354533.112 X=625531.168
299.66' EAST AND 1695.51' NORTH OF
THE SOUTH 1/4 CORNER OF SECTION 12,
TOWNSHIP 22 NORTH, RANGE 14 EAST



LAYOUT
SCALE 0 1 MI

CAUTION:
THIS PLAT IS FOR ILLUSTRATIVE PURPOSES ONLY. DEEDS MUST BE CHECKED TO DETERMINE PROPERTY BOUNDARIES.

TOTAL NET LENGTH OF CENTERLINE N. WATER STREET = 0.335 MILES
TOTAL NET LENGTH OF CENTERLINE N. PEARL STREET= 0.161 MILES

BASIS FOR EXISTING RIGHT OF WAY
GOVERNMENT CORNERS PER WAUPACA COUNTY COORDINATE SYSTEM
TRADITIONAL PLAT OF RIGHT OF WAY FOR C.T.H. D DECEMBER 16, 2004
SUBDIVISION PLATS
- REEDER SMITH PLAT
- TAFT & MILLERD'S VILLAGE PLAT 1855
- MILLERD & TAFT'S VILLAGE PLAT 1874

CERTIFIED SURVEY MAPS
- VOLUME 13, PAGE 435-437 C.S.M. NO. 4438 JULY 7, 1996
- VOLUME 17, PAGE 138-140 C.S.M. NO. 5241 MARC 8, 2000
- VOLUME 22, PAGE 194-197 C.S.M. NO. 6297 SEPTEMBER 10, 2004
- VOLUME 33, PAGE 61 C.S.M. NO. 7920 JANUARY 17, 2020

FOUND MONUMENTS AS SHOWN ON THIS PLAT OF RIGHT-OF-WAY
DEEDS OF RECORD
PLATS OF SURVEY

R/W PROJECT NUMBER 6996-04-02	SHEET NUMBER	TOTAL SHEETS
R/W PROJECT NUMBER 6996-04-02	4.01	13

PLAT OF RIGHT OF WAY REQUIRED FOR

N. WATER STREET
SHAWANO ST-N. PEARL STREET

N. WATER STREET	WAUPACA COUNTY

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC, PURPOSE, Including THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLEs) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN. TLE AREAS ARE TO THE FACE OF THE BUILDING FOR SLOPING, NOT WITHIN THE BUILDING.

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHTS TO MAKE OR CONSTRUCT IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

N. PEARL STREET
END RELOCATION ORDER STA 72+00.00
Y=355045.710 X=627021.336
858.32' WEST AND 503.25' SOUTH OF THE
EAST 1/4 CORNER OF SECTION 12,
TOWNSHIP 22 NORTH, RANGE 14 EAST

N. WATER STREET
END RELOCATION ORDER STA 26+66.44
Y=354525.426 X=627297.586
582.06' WEST AND 1023.53' SOUTH OF
THE EAST 1/4 CORNER OF SECTION 12,
TOWNSHIP 22 NORTH, RANGE 14 EAST

N. PEARL STREET
BEGIN RELOCATION ORDER STA 63+50.00
Y=354258.818 X=627133.819
741.09' WEST AND 1366.50' NORTH OF
THE SOUTHEAST CORNER OF SECTION 12,
TOWNSHIP 22 NORTH, RANGE 14 EAST

ORIGINAL PLANS PREPARED BY MCMAHON

WISCONSIN DOUGLAS E. WOELZ S-2327 KAUKAUNA WI LAND SURVEYOR

3-10-23
DATE SIGNATURE

REVISION DATE
June 30, 2023

CITY OF NEW LONDON

DATE: (Signature)

(Print Name)

SCHEDULE OF LAND & INTEREST REQUIRED

PARCEL NUMBER	SHEET NUMBER	OWNER(S)	TAX KEY NUMBER	INTEREST REQUIRED	TOTAL ACRES	R/W SQ. FT. REQUIRED NEW	R/W SQ. FT. REQUIRED EXISTING	R/W SQ. FT. REQUIRED TOTAL	TOTAL ACRES REMAINING	TLE SQ. FT.	PLE SQ. FT.
1	4.05	ASB VENTURES LLC, A WISCONSIN LIMITED LIABILITY COMPANY	33-12-71-4	FEE, TLE	0.300	2		2	0.300	539	
2	4.05	DFS STORAGE, LLC, A WISCONSIN LIMITED LIABILITY COMPANY	33-12-71-96	TLE						0	
3	4.05	CITY OF NEW LONDON, A MUNICIPAL CORPORATION OF WAUPACA & OUTAGMIE COUNTIES	33-12-71-83	TLE						0	
4	4.05	MICHAEL W. RICE, LAND CONTRACT PURCHASER AND CHARLES W. AND LINDA M. LUEDEKE LIVING TRUST DTD 03/26/2015, LAND CONTRACT VENDOR,	33-12-71-82	TLE						202	
6	4.05	MICHAEL W. RICE AS LAND CONTRACT PURCHASER AND LLOYD J. VERCAUTEREN A/W LLOYD VERCAUTEREN AND ADELINE E. VERCAUTEREN A/W ADELINE VERCAUTEREN AS LAND CONTRACT VENDORS	33-12-71-81	TLE						356	
7	4.05	PAUL A. NEILSON, SUBJECT TO THE LIFE ESTATE OF DOROTHY M. NEILSON AS CREATED IN QUIT CLAIM DEED RECORDED AS DOCUMENT NO. 764706	33-12-71-80	TLE						427	
8	4.05	ERIC T. LOBERG	33-12-71-79	TLE						610	
9	4.06	LIVING WATERS ASSEMBLY OF GOD	33-12-71-67	FEE, TLE						4036	
			32-12-71-64			13		13			
12	4.05	DANIEL HUERTA LAND CONTRACT PURCHASER AND CINDY BAKER LAND CONTRACT VENDOR	33-12-71-10	FEE, TLE	0.140	60		60	0.139	2126	
			33-12-71-11, 33-12-71-12 & 33-12-71-13								
17	4.05	CODY KALLAS AND KYRA KALLAS, HUSBAND AND WIFE	33-12-71-15	TLE						613	
18	4.06	UPRIVER ENTERPRISES, LLC, A WISCONSIN LIMITED LIABILITY COMPANY	33-12-71-16	TLE						2082	
19	4.06	FRASER VENTURES LLC, A WISCONSIN LIMITED LIABILITY COMPANY	33-12-71-22	TLE							
21	4.06	CITY OF NEW LONDON, A MUNICIPAL CORPORATION	33-12-71-23, 33-12-71-28 & 33-12-71-29	TLE							
24	4.06 & 4.07	TODD J. FENSKE REVOCABLE TRUST DATED SEPTEMBER 27, 2017	33-12-71-30	TLE						361	
26	4.07	SCHIRPKE ENTERPRISES, LLC	33-12-71-31	TLE						541	
27	4.07	KIM J. SASMAN AND TABITHA A. BESAW, TENANTS IN COMMON	33-12-71-32	TLE						180	
28	4.07	JULIE A. BOHN	33-12-71-34	TLE						180	
29	4.07	J & F ENTERPRISE, LLC, A WISCONSIN LIMITED LIABILITY COMPANY AS LAND CONTRACT PURCHASER AND GERRY VOIGT AS LAND CONTRACT VENDOR	33-12-71-33	TLE						180	
31	4.07	KENNETH ROBERTS AND HARRIET ROBERTS, HUSBAND AND WIFE	33-12-71-35	TLE						400	
32	4.07	DOUGLAS P. NOEL	33-12-71-36	TLE						200	
33	4.06	CASE W. WEWERKA, RUSSELL L. DIETZ AND WARREN J. DIETZ AS TENANTS IN COMMON	33-12-71-52	FEE, TLE	0.170	18		18	0.170	700	
34	4.06 & 4.07	JAMES J. BILLEK AND KATHLEEN D. BILLEK, HUSBAND AND WIFE AS SURVIVORSHIP MARITAL PROPERTY	33-12-71-51 & 33-12-71-50	TLE						1217	
37	4.07	ARTEMIS INVESTMENTS LLC, A WISCONSIN LIMITED LIABILITY COMPANY	33-12-71-49	TLE						281	
38	4.07	PACE LOCAL 71970	33-12-71-48	TLE						250	
39	4.07	PCMEDCARE, LLC	33-12-71-47	TLE						347	
41	4.07	CITY OF NEW LONDON, A MUNICIPAL CORPORATION	33-12-77-30	TLE						0	
42	4.07	LYNN TANK AGENCY LLC	33-12-77-31	TLE						286	

OWNER'S NAME ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE CITY.

4

4

REVISION DATE _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____

DATE _____

GRID FACTOR _____

SCALE, FEET 0

HWY: N WATER STREET

COUNTY: WAUPACA

STATE R/W PROJECT NUMBER 6996-04-02

CONSTRUCTION PROJECT NUMBER 6996-04-72

PLAT SHEET 4.02

PS&E SHEET 93

E

FILE NAME : RW PLAT SOI.DWG
LAYOUT NAME - Sheet - (1)

PLOT DATE : 3/10/2023 8:09 AM PLOT BY : MARTY ABING PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 75

SCHEDULE OF LAND & INTEREST REQUIRED

PARCEL NUMBER	SHEET NUMBER	OWNER(S)	TAX KEY NUMBER	INTEREST REQUIRED	TOTAL ACRES	R/W SQ. FT. REQUIRED NEW	EXISTING	TOTAL	TOTAL ACRES REMAINING	TLE SQ. FT.	PLE SQ. FT.
43	4.07	J & F ENTERPRISE, LLC, A WISCONSIN LIMITED LIABILITY COMPANY	33-12-77-36	TLE						212	
44	4.07	EARL J. LAUDERS, III S.C.	33-12-77-45	TLE						306	
46	4.07	DANKE AND SONS, LLC	33-12-77-44	TLE						330	
47	4.07, 4.08	RICKERT INVESTMENTS, LLC, A WISCONSIN LIMITED LIABILITY COMPANY	33-12-77-39	TLE						588	
48	4.07	R.M. LEAHY LLC, A WISCONSIN LIMITED LIABILITY COMPANY	33-12-77-50, 33-12-77-51 & 33-12-77-52	TLE						765	
52	4.07	TORNADO PROPERTIES, LLC, A WISCONSIN LIMITED LIABILITY COMPANY	33-12-77-53 & 33-12-77-54	TLE						362	
54	4.07	WATER STREET BUILDING, LLC, A WISCONSIN LIMITED LIABILITY COMPANY	33-12-77-55	TLE						181	
56	4.07	PEDRO-SERGIO, LLC	33-12-77-57	TLE						399	
57	4.07	UMBRELLA LAW, LLC, A WISCONSIN LIMITED LIABILITY COMPANY	33-12-77-58	TLE						392	
58	4.08	KEEN CAPITAL MANAGEMENT, LLC, A WISCONSIN LIMITED LIABILITY COMPANY	33-12-77-59	TLE						225	
59	4.08	CITY OF NEW LONDON, A WISCONSIN MUNICIPALITY	33-12-77-65 & 33-12-77-66	TLE						0	
62	4.08	FAMILY BAKE SHOP, LLC AS LAND CONTRACT PURCHASER AND HENRICA LAUGHLIN (FKA HENRICA BULT) AS LAND CONTRACT VENDOR	33-12-77-67	TLE						132	
63	4.08	JONAS MOTA CASTELLANOS AND GABINA HERNANDEZ-LUCIANO, HUSBAND & WIFE SURVIVORSHIP MARITAL PROPERTY AS LAND CONTRACT PURCHASERS AND JOHN E. ROMBERG AND MARY ANN ROMBERG AS LAND CONTRACT VENDORS	33-12-77-68	TLE						123	
64	4.08	JAMB PARTNERS LLC	33-12-77-69	TLE						420	
66	4.08	CITY OF NEW LONDON, A MUNICIPAL CORPORATION	33-12-77-70	TLE						0	
67	4.08	FIRST STATE BANK OF NEW LONDON	33-12-77-20	TLE						1400	
71	4.08, 4.09	MM COYLE FAMILY LIMITED PARTNERSHIP	33-12-77-75	FEE, TLE	0.100	188		188	0.096	517	
72	4.09	ELIZABETH A. HUTCHISON AND JEREMY HUTCHISON, WIFE AND HUSBAND, AS SURVIVORSHIP MARITAL PROPERTY	33-12-77-76	TLE						1414	
73	4.09, 4.10	ASSOCIATED BANK, N.A., SUCCESSOR BY MERGER WITH BANK MUTUAL FKA FIRST NORTHERN SAVINGS BANK FKA MUTUAL SAVINGS BANK PREVIOUSLY KNOWN AS NEW LONDON SAVINGS AND LOAN ASSOCIATION	33-12-77	TLE						1060	
74	4.08, 4.09 & 4.10	WOLF RIVER DEVELOPMENT, LLC	33-12-77-18	FEE, TLE	0.380	23		23	0.379	3830	
			33-12-77-23 & 33-12-77-24	TLE							
76	4.10	ASSOCIATED BANK, N.A., SUCCESSOR BY MERGER WITH BANK MUTUAL FKA FIRST NORTHERN SAVINGS BANK FKA MUTUAL SAVINGS BANK PREVIOUSLY KNOWN AS NEW LONDON SAVINGS AND LOAN ASSOCIATION	33-12-77-8	FEE, TLE	0.430	141		141	0.427	1511	
77	4.10	ASSOCIATED BANK, N.A., SUCCESSOR BY MERGER WITH BANK MUTUAL FKA FIRST NORTHERN SAVINGS BANK FKA MUTUAL SAVINGS BANK PREVIOUSLY KNOWN AS NEW LONDON SAVINGS AND LOAN ASSOCIATION	33-12-77-1 & 33-12-77-2	TLE						1883	
79	4.09	WAUPACA COUNTY	33-12-77-71	PLE, TLE						519	519
80	4.08, 4.09	SHIVA BHATTARAI	33-12-77-80	FEE, TLE	0.340	150		150	0.337	3966	
100	4.06	NEW LONDON UTILITIES	33-12-71-52	RELEASE OF RIGHTS							

OWNER'S NAME ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE CITY.

4

4

REVISION DATE
June 30, 2023

DATE

GRID FACTOR

SCALE, FEET
0

HWY: N WATER STREET

COUNTY: WAUPACA

STATE R/W PROJECT NUMBER 6996-04-02

CONSTRUCTION PROJECT NUMBER 6996-04-72

PLAT SHEET 4.03

PS&E SHEET 94

E

FILE NAME : RW PLAT SOI.DWG
LAYOUT NAME - Sheet - (2)

PLOT DATE : 6/30/2023 8:42 AM PLOT BY : MARTY ABING PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 75

4

CITY

GOV'T LOT 7
SEC. 12

OF

GOV'T LOT 8
SEC. 12

NEW LONDON

GN

SHAWANO ST

WISCONSIN ST

STATE ST

LINCOLN CT

ST. JOHN'S PL

N. PEARL ST

WAUPACA ST

PARK ST

N. WATER ST

N. WATER ST

SHAWANO ST

GOV'T LOT 7
GOV'T LOT 8

ST. JOHN'S PL

PEARL ST

9+00 10+00 11+00 12+00 13+00 14+00 15+00 16+00 17+00 18+00 19+00 20+00 21+00 22+00 23+00 24+00 25+00 26+00

4

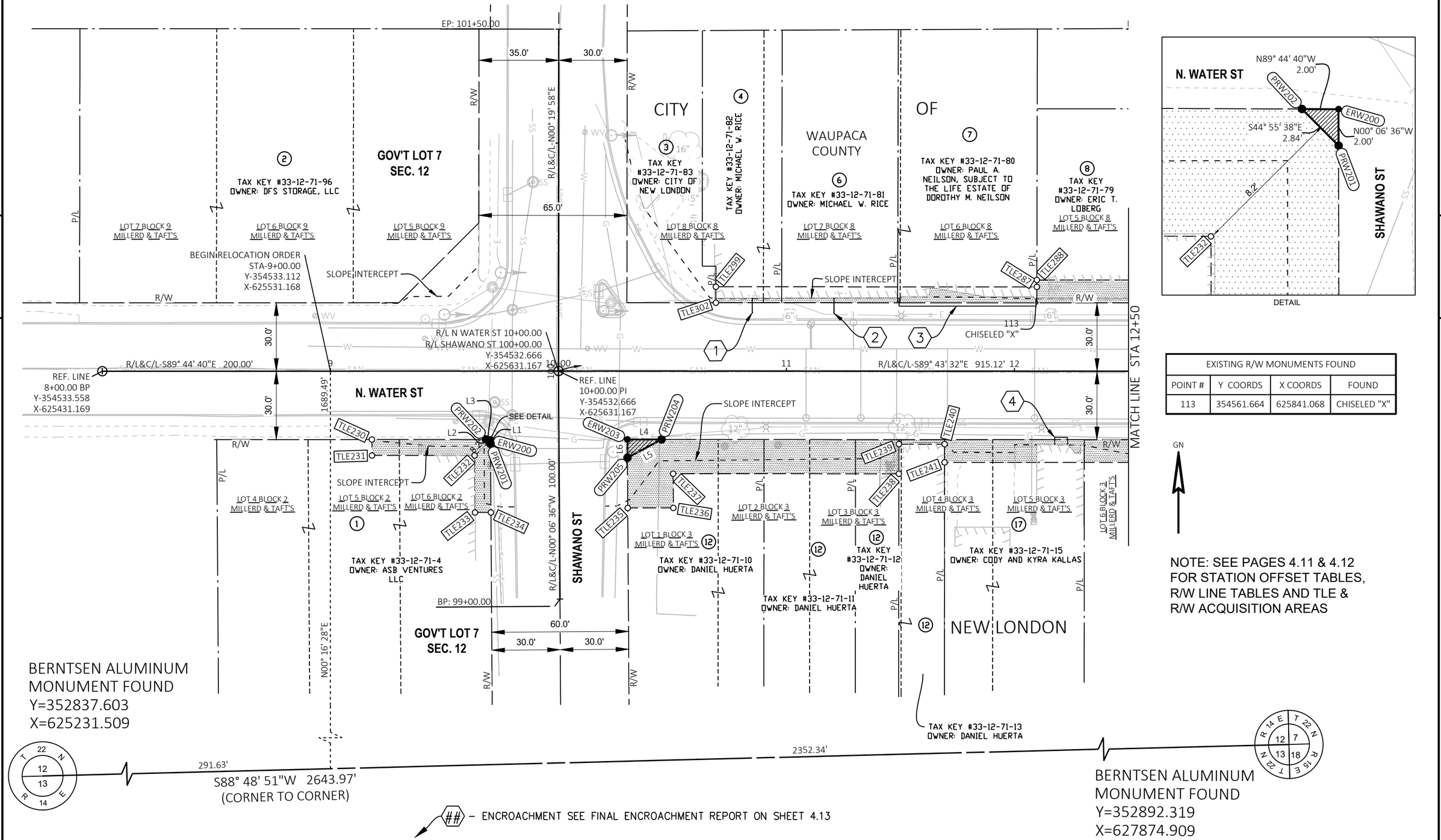
REVISION DATE	DATE	SCALE, FEET 0 60 120	HWY: N WATER STREET
	GRID FACTOR		COUNTY: WAUPACA

STATE R/W PROJECT NUMBER 6996-04-02	PLAT SHEET 4. 04	
CONSTRUCTION PROJECT NUMBER 6996-04-72	PS&E SHEET	E

FILE NAME : N WATER ST LAYOUT.DWG
LAYOUT NAME - RW 1 IN 120 FT

PLOT DATE : 3/10/2023 8:09 AM PLOT BY : MARTY ABING PLOT NAME : PLOT SCALE : 120

WISDOT/CADDS SHEET 75



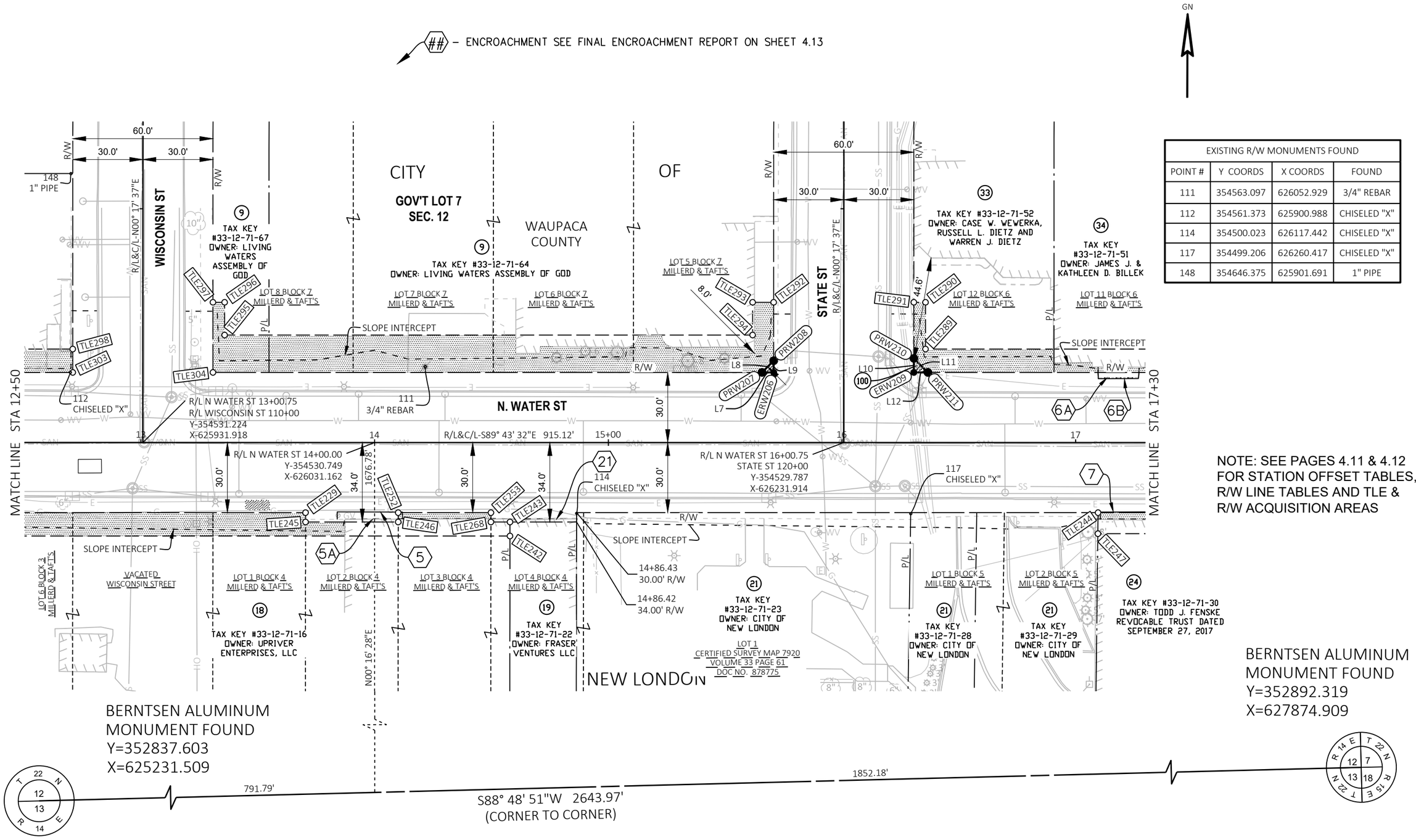
EXISTING R/W MONUMENTS FOUND			
POINT #	Y COORDS	X COORDS	FOUND
113	354561.664	625841.068	CHISELED "X"

GN

NOTE: SEE PAGES 4.11 & 4.12 FOR STATION OFFSET TABLES, R/W LINE TABLES AND TLE & R/W ACQUISITION AREAS

REVISION DATE	DATE	SCALE, FEET 0 20 40	HWY: N WATER STREET	STATE R/W PROJECT NUMBER 6996-04-02	PLAT SHEET 4. 05
	GRID FACTOR		COUNTY: WAUPACA	CONSTRUCTION PROJECT NUMBER 6996-04-72	PS&E SHEET 96 E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\04-RW PLAT\N WATER STREET RW PLAT.DWG
LAYOUT NAME - 4.05
PLOT DATE : 3/10/2023 8:09 AM PLOT BY : MARTY ABING PLOT NAME : PLOT SCALE : ##########



EXISTING R/W MONUMENTS FOUND			
POINT #	Y COORDS	X COORDS	FOUND
111	354563.097	626052.929	3/4" REBAR
112	354561.373	625900.988	CHISELED "X"
114	354500.023	626117.442	CHISELED "X"
117	354499.206	626260.417	CHISELED "X"
148	354646.375	625901.691	1" PIPE

NOTE: SEE PAGES 4.11 & 4.12 FOR STATION OFFSET TABLES, R/W LINE TABLES AND TLE & R/W ACQUISITION AREAS

REVISION DATE	DATE	SCALE, FEET 0 20 40	HWY: N WATER STREET	STATE R/W PROJECT NUMBER 6996-04-02	PLAT SHEET 4. 06
	GRID FACTOR		COUNTY: WAUPACA	CONSTRUCTION PROJECT NUMBER 6996-04-72	PS&E SHEET 97 E

4

– ENCROACHMENT SEE FINAL ENCROACHMENT REPORT ON SHEET 4.13

GN

EXISTING R/W MONUMENTS FOUND			
POINT #	Y COORDS	X COORDS	FOUND
120	354557.526	626742.348	CHISELED "X"
121	354557.531	626741.603	CHISELED "X"
122	354558.223	626561.513	CHISELED "X"
123	354558.329	626531.509	CHISELED "X"

NOTE: SEE PAGES 4.11 & 4.12 FOR STATION OFFSET TABLES, R/W LINE TABLES AND TLE & R/W ACQUISITION AREAS

BERNTSEN ALUMINUM MONUMENT FOUND
Y=352837.603
X=625231.509

1492.02'
S88° 48' 51"W 2643.97'
(CORNER TO CORNER)
1151.95'

BERNTSEN ALUMINUM MONUMENT FOUND
Y=352892.319
X=627874.909

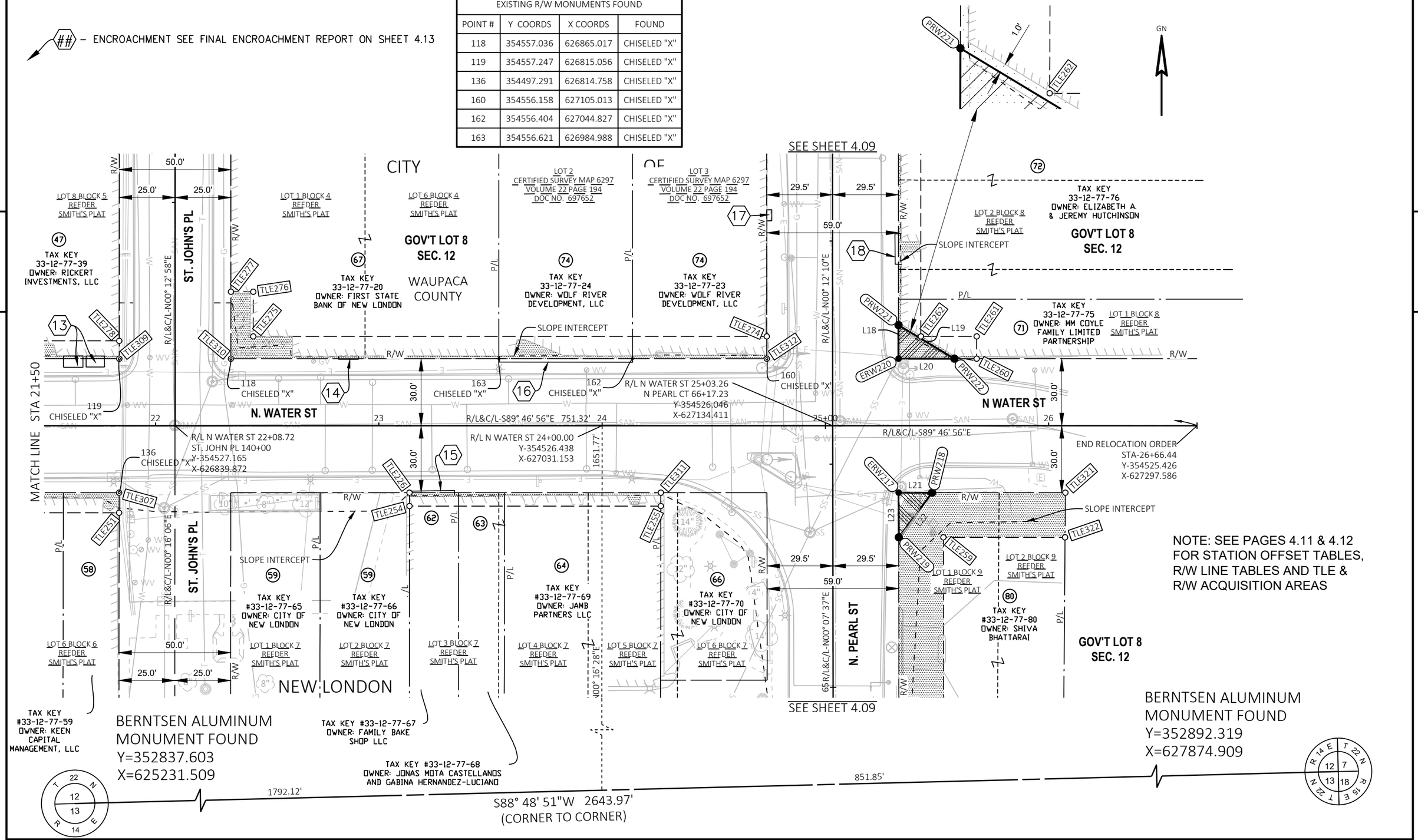
REVISION DATE June 30, 2023	DATE	SCALE, FEET 0 20 40	HWY: N WATER STREET	STATE R/W PROJECT NUMBER 6996-04-02	PLAT SHEET 4. 07
	GRID FACTOR		COUNTY: WAUPACA	CONSTRUCTION PROJECT NUMBER 6996-04-72	PS&E SHEET 98 E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\04-RW PLAT\N WATER STREET RW PLAT.DWG
LAYOUT NAME - 4.07
PLOT DATE : 6/30/2023 9:33 AM PLOT BY : MARTY ABING PLOT NAME : PLOT SCALE : ##########

4

EXISTING R/W MONUMENTS FOUND			
POINT #	Y COORDS	X COORDS	FOUND
118	354557.036	626865.017	CHISELED "X"
119	354557.247	626815.056	CHISELED "X"
136	354497.291	626814.758	CHISELED "X"
160	354556.158	627105.013	CHISELED "X"
162	354556.404	627044.827	CHISELED "X"
163	354556.621	626984.988	CHISELED "X"

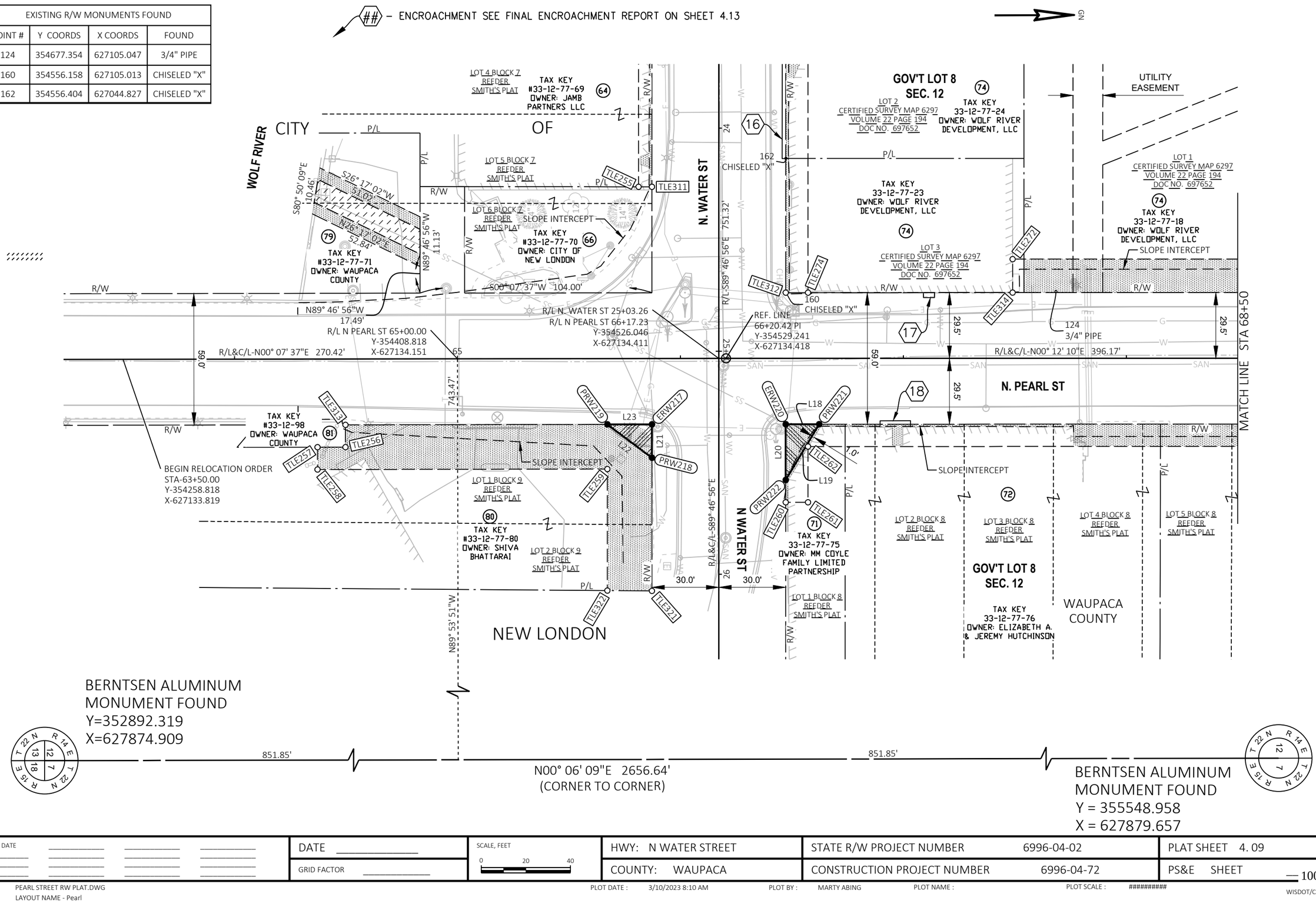
– ENCROACHMENT SEE FINAL ENCROACHMENT REPORT ON SHEET 4.13



NOTE: SEE PAGES 4.11 & 4.12 FOR STATION OFFSET TABLES, R/W LINE TABLES AND TLE & R/W ACQUISITION AREAS

REVISION DATE	DATE	SCALE, FEET 0 20 40	HWY: N WATER STREET	STATE R/W PROJECT NUMBER 6996-04-02	PLAT SHEET 4. 08
	GRID FACTOR		COUNTY: WAUPACA	CONSTRUCTION PROJECT NUMBER 6996-04-72	PS&E SHEET 99 E

EXISTING R/W MONUMENTS FOUND			
POINT #	Y COORDS	X COORDS	FOUND
124	354677.354	627105.047	3/4" PIPE
160	354556.158	627105.013	CHISELED "X"
162	354556.404	627044.827	CHISELED "X"



REVISION DATE	DATE	SCALE, FEET	HWY: N WATER STREET	STATE R/W PROJECT NUMBER 6996-04-02	PLAT SHEET 4. 09	
	GRID FACTOR	0 20 40	COUNTY: WAUPACA	CONSTRUCTION PROJECT NUMBER 6996-04-72	PS&E SHEET 100	E

FILE NAME : PEARL STREET RW PLAT.DWG
LAYOUT NAME - Pearl
PLOT DATE : 3/10/2023 8:10 AM PLOT BY : MARTY ABING PLOT NAME : PLOT SCALE : ##########
WISDOT/CADDS SHEET 75

– ENCROACHMENT SEE FINAL ENCROACHMENT REPORT ON SHEET 4.13

GN

CITY OF

PARK ST

25.0' 25.0' R/W

R/L&C/L-N89° 50' 27"W

50.0'

TLE270 TLE269 TLE271 PRW225 PRW224 ERW223 L14 L15 L13 R/W

ERW213 PRW214 TLE267 L25 L24 L26 ERW212 PRW215 L27 TLE266

76
TAX KEY
33-12-77-8
OWNER: ASSOCIATED BANK

GOV'T LOT 8
SEC. 12

REF LINE
EP: 72+11.21
X-355045.921
Y-627010.127

REF LINE
PC: 70+16.60
X-354925.412
Y-627135.819

LOT 1
CERTIFIED SURVEY MAP 4438
VOLUME 13 PAGE 435
DOC NO. 547720

SLOPE INTERCEPT

TLE264 TLE319 TLE265 TLE318 R/W

20

REF LINE
PT: 72+03.96
X-355045.827
Y-627017.377

END RELOCATION ORDER
STA-72+00.00
Y-355045.710
X-627021.336

WAUPACA ST

MATCH LINE STA 68+50

R/L&C/L-N00° 12' 10"E 396.17'

29.5' 59.0' 29.5'

70

R/L N PEARL ST 69+00.00
Y-354808.816
X-627135.407

19

N. PEARL ST

TLE315 TLE316 R/W TLE320 TLE263

SLOPE INTERCEPT

GOV'T LOT 8
SEC. 12

TLE300 TLE301

742.93'

VACATED PARK STREET (MILK STREET)

PARK ST (MILK STREET)

10.0' R/W

LOT 6 BLOCK 8
REFDER
SMITH'S PLAT

73
TAX KEY
33-12-77-77
OWNER: ASSOCIATED BANK

N89° 53' 51"W

LOT 1 BLOCK 2
REFDER
SMITH'S PLAT

77
TAX KEY
33-12-77-1
OWNER: ASSOCIATED BANK

LOT 2 BLOCK 2
REFDER
SMITH'S PLAT

NEW LONDON

WAUPACA
COUNTY

LOT 3 BLOCK 2
REFDER
SMITH'S PLAT

77
TAX KEY
33-12-77-2
OWNER: ASSOCIATED BANK

WAUPACA ST

REF. LINE
PI STA = 71+35.47
Y = 355044.284
X = 627136.240
DELTA = 89°27'33"
D = 47°44'47"
T = 118.87'
R = 120.00'
ARC LENGTH=187.36'
CHORD LENGTH=168.90'
CHORD BEARING=N44°31'37"W

BERNTSEN ALUMINUM
MONUMENT FOUND
Y=352892.319
X=627874.909

851.85'

N00° 06' 09"E 2656.64'
(CORNER TO CORNER)

851.85'

BERNTSEN ALUMINUM
MONUMENT FOUND
Y = 355548.958
X = 627879.657

REVISION DATE	DATE	SCALE, FEET 0 20 40	HWY: N WATER STREET	STATE R/W PROJECT NUMBER 6996-04-02	PLAT SHEET 4. 10
	GRID FACTOR		COUNTY: WAUPACA	CONSTRUCTION PROJECT NUMBER 6996-04-72	PS&E SHEET 101 E

FILE NAME : PEARL STREET RW PLAT.DWG
LAYOUT NAME - Pearl (2)

PLOT DATE : 3/10/2023 8:10 AM PLOT BY : MARTY ABING PLOT NAME : PLOT SCALE : ##########

POINT	ALIGNMENT	STATION	OFFSET	Y COORDS	X COORDS	DESCRIPTION
200	N. WATER STREET	9+70.19	30.00' RT	354502.799	625601.224	ERW
201	N. WATER STREET	9+70.20	32.00' RT	354500.799	625601.228	PRW
202	N. WATER STREET	9+68.19	30.00' RT	354502.808	625599.224	PRW
203	N. WATER STREET	10+30.20	30.00' RT	354502.521	625661.225	ERW
204	N. WATER STREET	10+45.20	30.00' RT	354502.449	625676.225	PRW
205	N. WATER STREET	10+30.26	38.00' RT	354494.521	625661.240	PRW
206	N. WATER STREET	15+70.76	30.00' LT	354559.930	626202.068	ERW
207	N. WATER STREET	15+65.76	30.00' LT	354559.954	626197.069	PRW
208	N. WATER STREET	15+70.77	35.00' LT	354564.930	626202.094	PRW
209	N. WATER STREET	16+30.76	30.00' LT	354559.643	626262.068	ERW
210	N. WATER STREET	16+30.77	36.00' LT	354565.643	626262.099	PRW
211	N. WATER STREET	16+36.76	30.00' LT	354559.614	626268.068	PRW
212	PEARL STREET	69+37.32	29.50' LT	354846.236	627106.039	ERW
213	PEARL STREET	69+37.26	100.00' LT	354846.432	627035.539	ERW
214	PEARL STREET	69+39.26	100.00' LT	354848.432	627035.545	PRW
215	PEARL STREET	69+39.32	29.50' LT	354848.236	627106.045	PRW
217	N. WATER STREET	25+32.81	30.00' RT	354495.934	627163.844	ERW
218	N. WATER STREET	25+47.81	30.00' RT	354495.877	627178.844	PRW
219	N. WATER STREET	25+32.84	50.00' RT	354475.934	627163.800	PRW
220	N. WATER STREET	25+32.75	30.00' LT	354555.934	627164.013	ERW
221	N. WATER STREET	25+32.74	45.00' LT	354570.934	627164.066	PRW
222	N. WATER STREET	25+57.75	30.00' LT	354555.839	627189.012	PRW
223	PEARL STREET	68+87.32	29.50' LT	354796.236	627105.862	ERW
224	PEARL STREET	68+78.32	29.50' LT	354787.237	627105.830	PRW
225	PEARL STREET	68+87.31	34.50' LT	354796.250	627100.862	PRW

TLE AREA FOR GRADING	
Parcel #	Area
1	539 SQ. FT.
4	202 SQ. FT.
6	356 SQ. FT.
7	427 SQ. FT.
8	610 SQ. FT.
9	4036 SQ. FT.
12	2126 SQ. FT.
17	613 SQ. FT.
18	2082 SQ. FT.
24	361 SQ. FT.
26	541 SQ. FT.
27	180 SQ. FT.
28	180 SQ. FT.
29	180 SQ. FT.

TLE AREA FOR GRADING	
Parcel #	Area
31	400 SQ. FT.
32	200 SQ. FT.
33	700 SQ. FT.
34	1217 SQ. FT.
37	281 SQ. FT.
38	250 SQ. FT.
39	347 SQ. FT.
42	286 SQ. FT.
43	212 SQ. FT.
44	306 SQ. FT.
46	330 SQ. FT.
48	765 SQ. FT.
52	362 SQ. FT.
54	181 SQ. FT.

TLE AREA FOR GRADING	
Parcel #	Area
56	399 SQ. FT.
57	392 SQ. FT.
58	225 SQ. FT.
62	132 SQ. FT.
63	123 SQ. FT.
64	420 SQ. FT.
67	1400 SQ. FT.
71	517 SQ. FT.
72	1414 SQ. FT.
73	1060 SQ. FT.
74	3830 SQ. FT.
76	1511 SQ. FT.
77	1883 SQ. FT.
80	3966 SQ. FT.

PARCEL 1 R/W Line Table		
Line #	Length	Direction
L1	2.00	S00°06'36"E
L2	2.84	N44°55'38"W
L3	2.00	S89°44'40"E

PARCEL 9 R/W Line Table		
Line #	Length	Direction
L7	5.00	N89°43'32"W
L8	7.07	N45°17'03"E
L9	5.00	S00°17'37"W

PARCEL 12 R/W Line Table		
Line #	Length	Direction
L4	15.00	S89°43'32"E
L5	16.95	S62°07'02"W
L6	8.00	N00°06'36"W

PARCEL 33 R/W Line Table		
Line #	Length	Direction
L10	6.00	N00°17'37"E
L11	8.48	S44°42'57"E
L12	6.00	N89°43'32"W

PARCEL 71 R/W Line Table		
Line #	Length	Direction
L18	15.00	N00°12'10"E
L19	29.16	S58°49'21"E
L20	25.00	N89°46'56"W

PARCEL 74 R/W Line Table		
Line #	Length	Direction
L13	9.00	S00°12'10"W
L14	10.29	N28°51'44"W
L15	5.00	S89°50'27"E

PARCEL 76 R/W Line Table		
Line #	Length	Direction
L24	70.50	N89°50'27"W
L25	2.00	N00°09'33"E
L26	70.50	S89°50'27"E
L27	2.00	S00°12'10"W

PARCEL 80 R/W Line Table		
Line #	Length	Direction
L21	15.00	S89°46'56"E
L22	24.98	S37°01'46"W
L23	20.00	N00°07'37"E

PROPOSED R/W AREAS	
Parcel #	Area
1	2 SQ. FT.
9	13 SQ. FT.
12	60 SQ. FT.
33	18 SQ. FT.
71	187 SQ. FT.
74	23 SQ. FT.
76	141 SQ. FT.
80	150 SQ. FT.

REVISION DATE

DATE

GRID FACTOR

SCALE, FEET 0 20 40

HWY: N WATER STREET

COUNTY: WAUPACA

STATE R/W PROJECT NUMBER 6996-04-02

CONSTRUCTION PROJECT NUMBER 6996-04-72

PLAT SHEET 4. 11

PS&E SHEET 102

E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\04-RW PLAT\N WATER STREET RW PLAT.DWG
LAYOUT NAME - Point Tables

PLOT DATE : 3/10/2023 8:10 AM PLOT BY : MARTY ABING PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 75

POINT	ALIGNMENT	STATION	OFFSET	DESCRIPTION
216	N. WATER STREET	19+82.24	30.00' LT	TLE
226	N. WATER STREET	23+13.73	30.00' RT	TLE
229	N. WATER STREET	13+70.42	30.00' RT	TLE
230	N. WATER STREET	9+18.19	30.00' RT	TLE
231	N. WATER STREET	9+18.23	37.00' RT	TLE
232	N. WATER STREET	9+63.24	37.00' RT	TLE
233	N. WATER STREET	9+63.39	62.00' RT	TLE
234	N. WATER STREET	9+70.38	62.00' RT	TLE
235	N. WATER STREET	10+30.40	60.00' RT	TLE
236	N. WATER STREET	10+50.40	60.00' RT	TLE
237	N. WATER STREET	10+50.30	45.00' RT	TLE
238	N. WATER STREET	11+49.28	45.00' RT	TLE
239	N. WATER STREET	11+49.29	32.00' RT	TLE
240	N. WATER STREET	11+69.36	32.00' RT	TLE
241	N. WATER STREET	11+69.35	40.00' RT	TLE
242	N. WATER STREET	14+57.91	40.00' RT	TLE
243	N. WATER STREET	14+57.92	34.00' RT	TLE
244	N. WATER STREET	17+09.63	30.00' RT	TLE
245	N. WATER STREET	13+70.41	34.00' RT	TLE
246	N. WATER STREET	14+10.08	34.00' RT	TLE
247	N. WATER STREET	17+09.58	39.00' RT	TLE
248	N. WATER STREET	19+15.14	40.00' RT	TLE
249	N. WATER STREET	19+70.22	40.00' RT	TLE
250	N. WATER STREET	19+70.22	39.00' RT	TLE
251	N. WATER STREET	21+83.68	39.00' RT	TLE
252	N. WATER STREET	14+10.09	30.00' RT	TLE
253	N. WATER STREET	14+49.76	30.00' RT	TLE
254	N. WATER STREET	23+13.73	36.00' RT	TLE
255	N. WATER STREET	24+26.29	36.00' RT	TLE
259	N. WATER STREET	25+52.84	50.00' RT	TLE
260	N. WATER STREET	25+67.75	30.00' LT	TLE
261	N. WATER STREET	25+67.74	40.00' LT	TLE
262	N. WATER STREET	25+42.74	40.00' LT	TLE
268	N. WATER STREET	14+49.75	34.00' RT	TLE
274	N. WATER STREET	24+73.74	40.00' LT	TLE

POINT	ALIGNMENT	STATION	OFFSET	DESCRIPTION
275	N. WATER STREET	22+43.75	40.00' LT	TLE
276	N. WATER STREET	22+43.77	60.00' LT	TLE
277	N. WATER STREET	22+33.77	60.00' LT	TLE
278	N. WATER STREET	21+83.74	38.00' LT	TLE
279	N. WATER STREET	19+82.31	43.00' LT	TLE
280	N. WATER STREET	20+04.31	43.00' LT	TLE
281	N. WATER STREET	20+04.29	38.00' LT	TLE
282	N. WATER STREET	18+70.00	39.00' RT	TLE
283	N. WATER STREET	18+70.00	40.00' RT	TLE
286	N. WATER STREET	19+00.26	40.00' LT	TLE
287	N. WATER STREET	12+09.78	37.00' LT	TLE
288	N. WATER STREET	12+09.79	40.00' LT	TLE
289	N. WATER STREET	16+35.77	40.00' LT	TLE
290	N. WATER STREET	16+35.77	60.00' LT	TLE
291	N. WATER STREET	16+30.77	60.00' LT	TLE
292	N. WATER STREET	15+70.77	60.00' LT	TLE
293	N. WATER STREET	15+61.77	60.00' LT	TLE
294	N. WATER STREET	15+61.77	46.00' LT	TLE
295	N. WATER STREET	13+35.77	46.00' LT	TLE
296	N. WATER STREET	13+35.77	60.00' LT	TLE
297	N. WATER STREET	13+30.77	60.00' LT	TLE
298	N. WATER STREET	12+70.77	40.00' LT	TLE
299	N. WATER STREET	10+69.04	37.00' LT	TLE
302	N. WATER STREET	10+69.03	30.00' LT	TLE
303	N. WATER STREET	12+70.76	30.00' LT	TLE
304	N. WATER STREET	13+30.76	30.00' LT	TLE
305	N. WATER STREET	19+15.14	30.00' RT	TLE
306	N. WATER STREET	19+00.21	30.00' LT	TLE
307	N. WATER STREET	21+83.69	30.00' RT	TLE
309	N. WATER STREET	21+83.74	30.00' LT	TLE
310	N. WATER STREET	22+33.74	30.00' LT	TLE
311	N. WATER STREET	24+26.29	30.00' RT	TLE
312	N. WATER STREET	24+73.75	30.00' LT	TLE
321	N. WATER STREET	26+07.48	30.00' RT	TLE
322	N. WATER STREET	26+07.32	50.00' RT	TLE

POINT	ALIGNMENT	STATION	OFFSET	DESCRIPTION
255	N. PEARL STREET	65+81.35	77.03' LT	TLE
256	N. PEARL STREET	64+49.70	39.50' RT	TLE
257	N. PEARL STREET	64+37.17	39.50' RT	TLE
258	N. PEARL STREET	64+37.15	49.50' RT	TLE
259	N. PEARL STREET	65+67.15	49.50' RT	TLE
262	N. PEARL STREET	66+57.22	39.50' RT	TLE
263	N. PEARL STREET	70+85.44	69.90' RT	TLE
264	N. PEARL STREET	71+01.96	31.76' LT	TLE
265	N. PEARL STREET	70+12.57	36.50' LT	TLE
266	N. PEARL STREET	69+42.31	36.50' LT	TLE
267	N. PEARL STREET	69+42.26	100.00' LT	TLE
269	N. PEARL STREET	68+87.26	100.00' LT	TLE
270	N. PEARL STREET	68+77.26	100.00' LT	TLE
271	N. PEARL STREET	68+77.31	44.50' LT	TLE
272	N. PEARL STREET	67+49.00	44.50' LT	TLE
274	N. PEARL STREET	66+57.24	29.50' LT	TLE
300	N. PEARL STREET	69+21.33	39.50' RT	TLE
301	N. PEARL STREET	69+31.33	39.50' RT	TLE
311	N. PEARL STREET	65+87.35	77.02' LT	TLE
312	N. PEARL STREET	66+47.24	29.50' LT	TLE
313	N. PEARL STREET	64+49.72	29.50' RT	TLE
314	N. PEARL STREET	67+48.98	29.50' LT	TLE
315	N. PEARL STREET	69+21.36	29.50' RT	TLE
316	N. PEARL STREET	69+31.36	29.50' RT	TLE
318	N. PEARL STREET	70+46.11	26.69' LT	TLE
319	N. PEARL STREET	70+95.60	25.78' LT	TLE

4

4

REVISION DATE

DATE

GRID FACTOR

SCALE, FEET 0 20 40

HWY: N WATER STREET

COUNTY: WAUPACA

STATE R/W PROJECT NUMBER 6996-04-02

CONSTRUCTION PROJECT NUMBER 6996-04-72

PLAT SHEET 4. 12

PS&E SHEET — 103

E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\04-RW PLAT\N WATER STREET RW PLAT.DWG
LAYOUT NAME - Point Tables (2)

PLOT DATE : 3/10/2023 8:10 AM PLOT BY : MARTY ABING PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 75

Encroachment Report
6996-04-72, Water St, New London

Encroachment ID	Parcel #	Approximate Station	Encroachment Description	Existing Right of Way Width from plat R/L	Distance from R/L to front of Encroachment	Waupaca Co. Parcel ID	Owner Occupant Name and Address	Hazard	Proposed Action
1	4	10+85 LT	Pole with Sign	30'	25.6'	33-12-71-82	Micheal W. Rice	N	Remain in place*
2	6	11+21 LT	Pole for Sign	30'	25.3'	33-12-71-81	Micheal W. Rice	N	Owner to Remove
3	7	11+49 - 12+09 LT	Awning	30'	28.6'	33-12-71-80	Paul A. Neilson	N	Remain in place*
4	17	12+18 - 12+23 RT	Balcony	30'	29.1'	33-12-71-15	Cody and Kyra Kallas	N	Remain in place*
5	18	13+84 - 14+12 RT	Awning	30'	29.7'	33-12-71-16	Upriver Enterprises, LLC	N	Remain in place*
5A	18	13+87 - 14+10 RT	Building	34'	32.8'	33-12-71-16	Upriver Enterprises, LLC	N	Remain in place*
21	19	14+50 - 14+86	Building	34'	32.7'	33-12-71-22	Fraser Ventures LLC	N	Remain in place*
6A	34	17+10 - 17+27 LT	Steps	30'	27.4'	33-12-71-51	James J. & Kathleen D. Billek	N	Remove and replace by owner
6B	34	17+10 - 17+27 LT	Balcony	30'	27.4'	33-12-71-51	James J. & Kathleen D. Billek	N	Remain in place*
7	24	17+11 - 17+50 RT	Awning	30'	29.6'	33-12-71-30	Todd J. Fenske Revocable Trust Dated September 27,2017	N	Remain in place*
8	39	18+67 - 18+98 LT	Awning	30'	28.5'	33-12-71-47	PCMEDCARE, LLC	N	Remain in place*
9	48	19+30 - 19+69 RT	Awning	30'	29.5'	33-12-77-50	R.M. Leahy LLC	N	Remain in place*
10	42	19+84 - 20+03 LT	Awning	30'	26.8'	33-12-77-31	Lynn Tank Agency LLC	N	Remain in place*
11	46	20+69 - 21+10 LT	Awning	30'	27'	33-12-77-44	Danke and Sons, LLC	N	Remain in place*
12	56	20+70 - 21+13 RT	Awning	30'	27.8'	33-12-77-57	Pedro-Sergio, LLC	N	Remain in place*
13	47	21+16 - 21+77 LT	Four Awnings	30'	26.2'	33-12-77-39	Rickert Investments, LLC	N	Remain in place*
14	67	22+82 - 22+91 LT	Awning	30'	29.7'	33-12-77-20	First State Bank of New London	N	Remain in place*
15	62	23+13 - 23+34 RT	Awning	30'	29.2'	33-12-77-67	Family Bake Shop, LLC	N	Remain in place*
16	74	23+54 - 24+14 LT	Awning	30'	28.5'	33-12-77-24	Wolf River Development, LLC	N	Remain in place*
17	74	67+09 - 67+14 LT	Concrete Steps	29.5'	27.3'	33-12-77-23	Wolf River Development, LLC	N	Remain in place*
18	72	66+90 - 67+03 RT	Awning	29.5'	27.9'	33-12-77-76	Elizabeth A. & Jeremy Hutchinson	N	Remain in place*
19	77	69+58 RT	Sign	29.5'	25.2'	33-12-77-1	Assosiated Bank	N	Remain in place*
20	76	70+10 LT	Sign Overhang	29.5'	28' (sign base is 30-lt)	33-12-77-8	Associated Bank	N	Remain in place*

* = Revocable Occupancy Permit required

4

4

REVISION DATE

DATE

GRID FACTOR

SCALE, FEET 0

HWY: N WATER STREET

COUNTY: WAUPACA

STATE R/W PROJECT NUMBER 6996-04-02

CONSTRUCTION PROJECT NUMBER 6996-04-72

PLAT SHEET 4. 13

PS&E SHEET 104

E

FILE NAME : 4.13 ENCROACHMENT REPORT.DWG
LAYOUT NAME - Sheet - (1)

PLOT DATE : 3/10/2023 8:10 AM PLOT BY : MARTY ABING PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 75

APPROXIMATE LIMITS OF PETROLEUM CONTAMINATED SOIL

BEGIN CONSTRUCTION
STA 9+23.05
MATCH EXISTING
SAW CUT REQ'D

BP: 8+00.00

PI: 10+00.00

SHAWANO ST

WISCONSIN ST

WATER ST

SLOPE INTERCEPT

TLE

REFERENCE LINE

PROPOSED ROW

203 NORTH SHAWANO STREET

521 W. NORTH WATER STREET

519 W. NORTH WATER STREET

515 W. NORTH WATER STREET

509 W. NORTH WATER STREET

201 WISCONSIN STREET

421 W. NORTH WATER STREET

403 W.

612 W. NORTH WATER STREET

600 W. NORTH WATER STREET

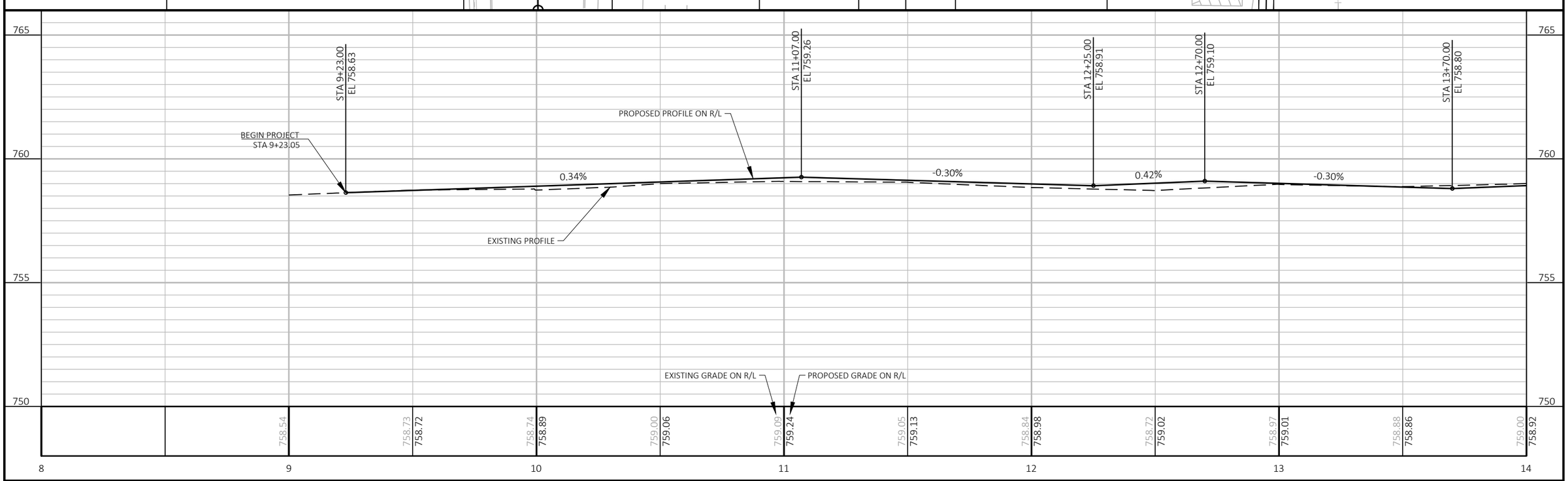
510 W. NORTH WATER STREET

510 W. NORTH WATER STREET

504 W. NORTH WATER STREET

416 W. NORTH WATER STREET

BENCHMARKS			
STA.	LOCATION	DESCRIPTION	ELEVATION
9+41	33' RT	NE BOLT DO SIGN	759.38
13+23	32' LT	MAG IN PP	760.48

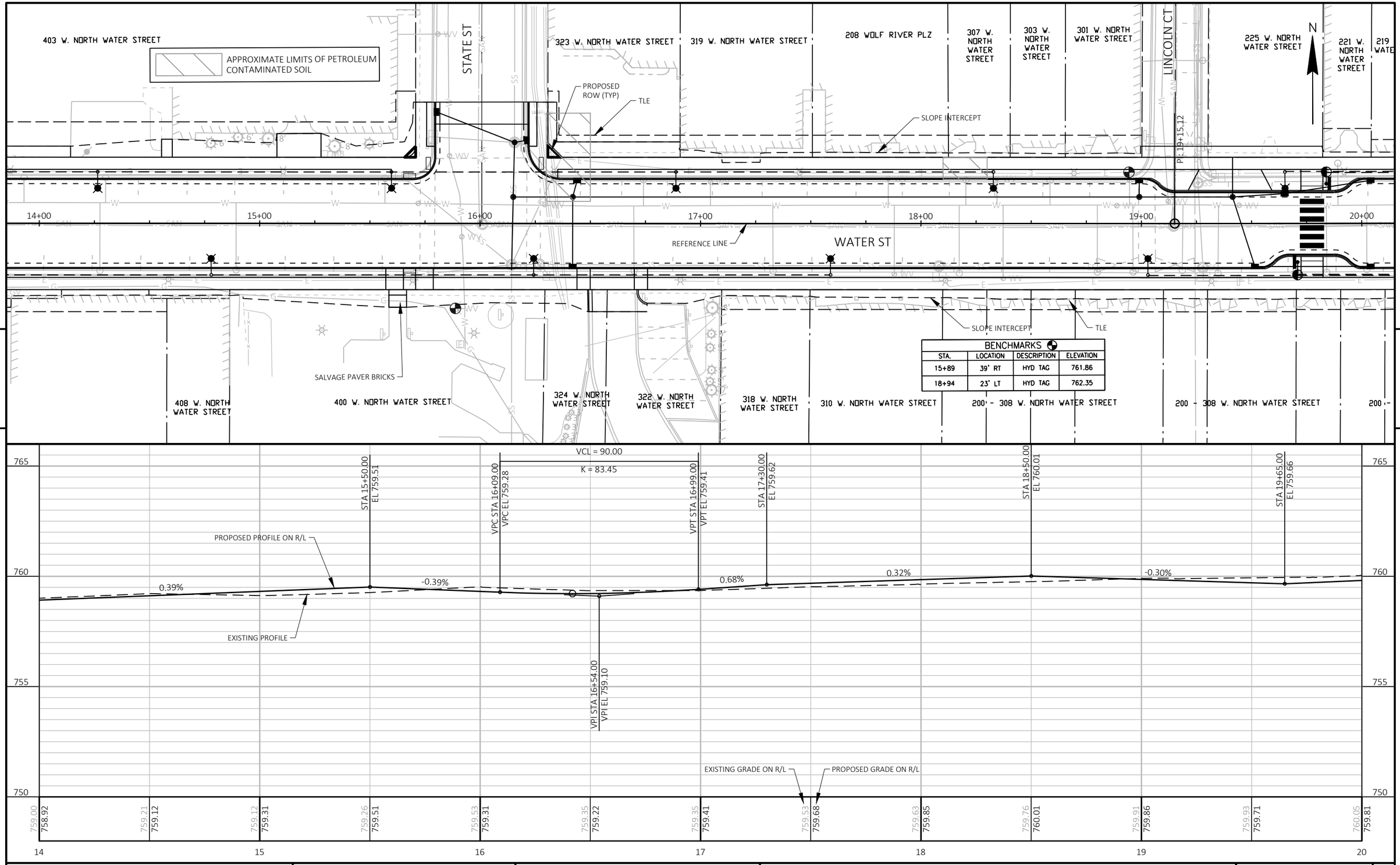


PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	PLAN AND PROFILE: N WATER STREET	SHEET 105	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\05-PP\WATER STREET PLAN AND PROFILE.DWG
LAYOUT NAME - 01

PLOT DATE : 12/6/2023 1:41 PM PLOT BY : JOSH FREWERD PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

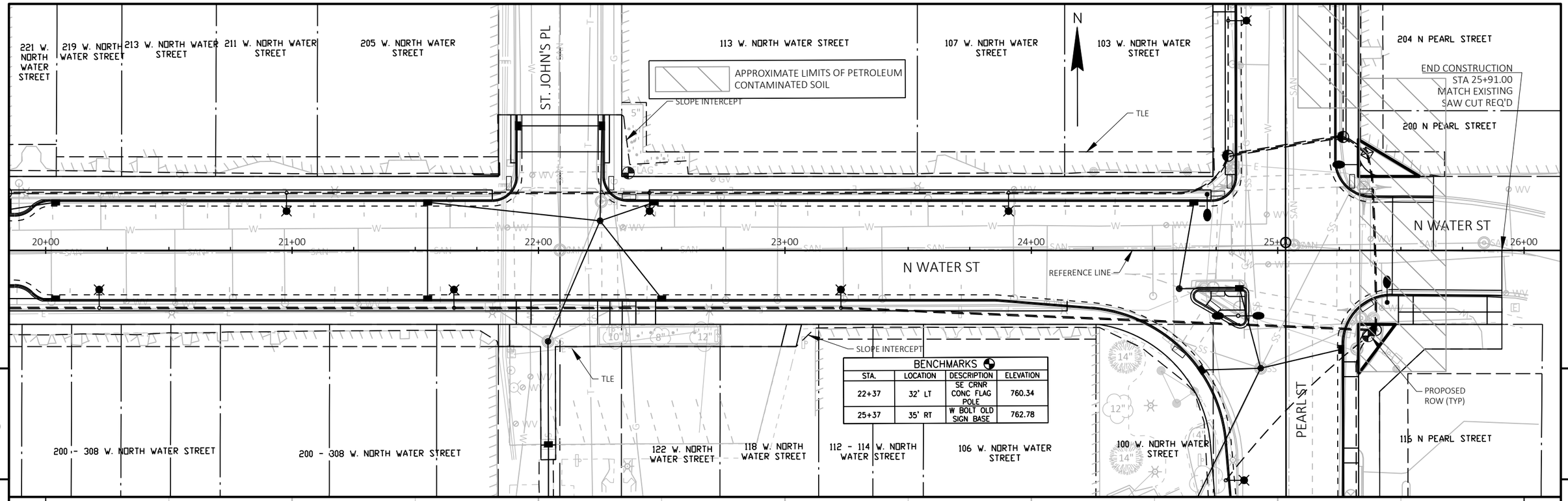


PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	PLAN AND PROFILE: N WATER STREET	SHEET 106	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\05-PP\WATER STREET PLAN AND PROFILE.DWG
LAYOUT NAME - 02

PLOT DATE : 12/6/2023 1:41 PM PLOT BY : JOSH FREWERD PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

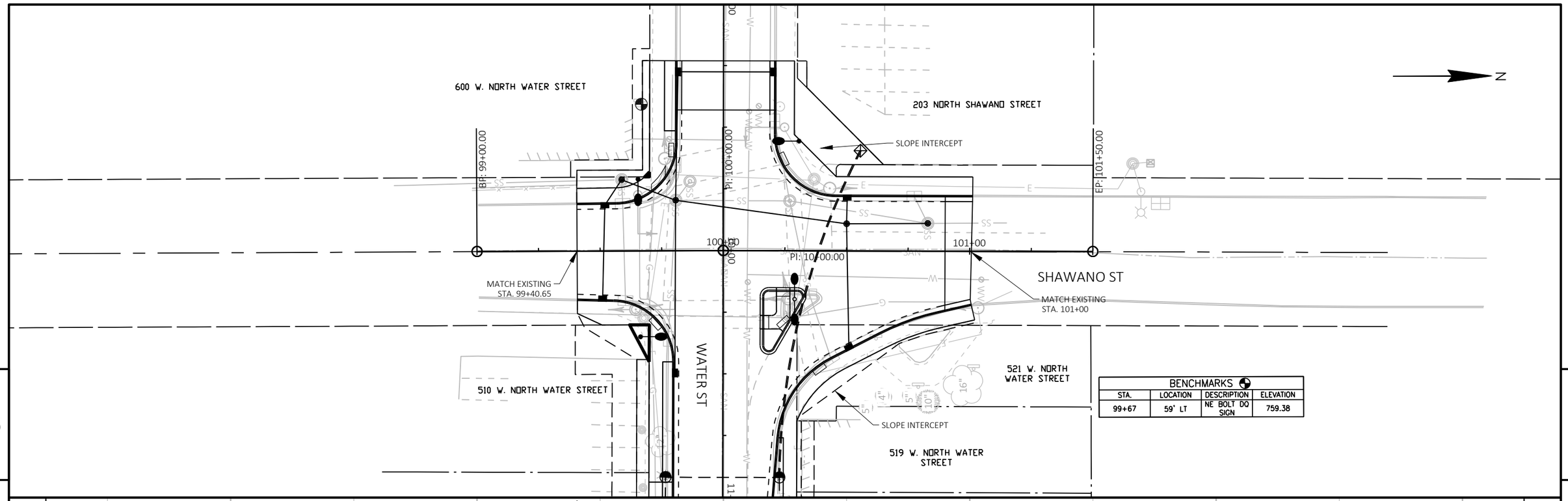


PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	PLAN AND PROFILE: N WATER STREET	SHEET 107	E

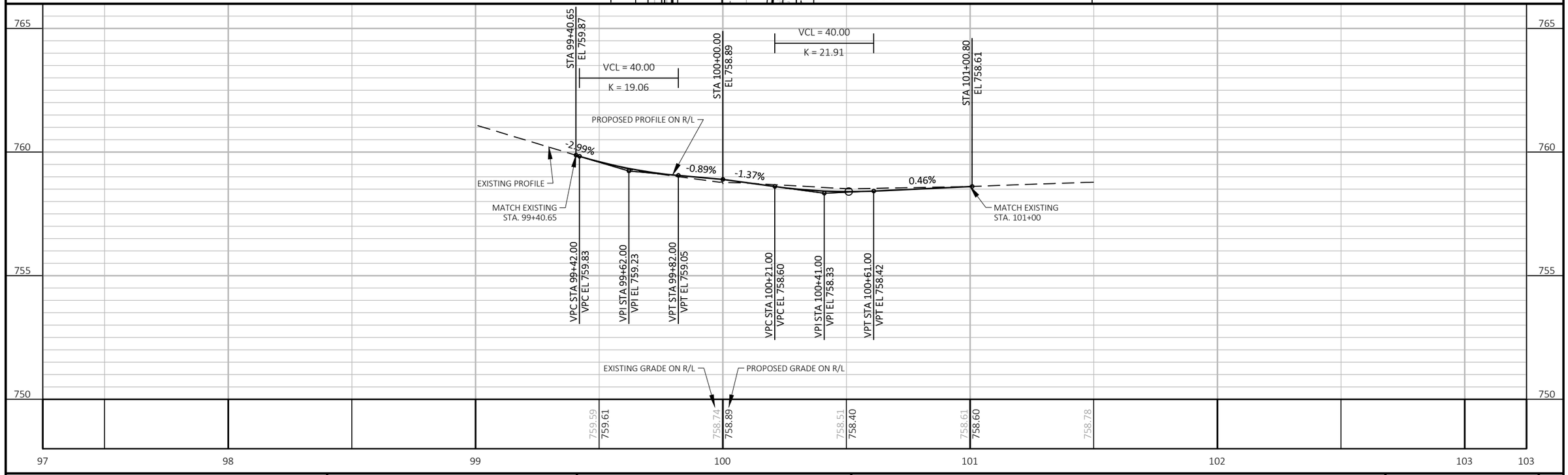
FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\05-PP\WATER STREET PLAN AND PROFILE.DWG
LAYOUT NAME - 03

PLOT DATE : 12/6/2023 1:41 PM PLOT BY : JOSH FREWERD PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44



BENCHMARKS			
STA.	LOCATION	DESCRIPTION	ELEVATION
99+67	59' LT	NE BOLT DO SIGN	759.38



PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	PLAN AND PROFILE: SHAWANO STREET	SHEET 108	E

LF RIVER

504 W. NORTH WATER STREET

509 W. NORTH WATER STREET

201 WISCONSIN STREET

WATER ST

WISCONSIN ST

BENCHMARKS			
STA.	LOCATION	DESCRIPTION	ELEVATION
110+32	22' RT	MAG IN PP	760.48

N

BP: 110+00.00

EP: 111+50.00

111+00

SLOPE INTERCEPT

MATCH EXISTING
STA. 110+55

416 W. NORTH WATER STREET

421 W. NORTH WATER STREET

SLOPE INTERCEPT
403 W. NORTH WATER STREET

5

5

765

760

755

750

STA 110+00.00
EL 759.01

STA 110+20.50
EL 758.60

STA 110+55.00
EL 758.81

MATCH EXISTING
STA. 110+55.00

-2.00%

0.60%

PROPOSED PROFILE ON R/L

EXISTING PROFILE

EXISTING GRADE ON R/L

PROPOSED GRADE ON R/L

758.97
759.01

758.83
758.78

758.79

758.63

107 108 109 110 111 112 113 113

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	PLAN AND PROFILE: WISCONSIN STREET	SHEET 109	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\05-PP\WATER STREET SIDE ROAD PLAN AND PROFILE.DWG
LAYOUT NAME - 02

PLOT DATE : 11/1/2023 8:24 AM PLOT BY : JOSH FREWERD PLOT NAME : PLOT SCALE : 1 IN:40 FT

BENCHMARKS			
STA.	LOCATION	DESCRIPTION	ELEVATION
15+89	39' RT	HYD TAG	761.86

N

403 W. NORTH WATER STREET

400 W. NORTH WATER STREET

BP: 120+00.00

EP: 121+50.00

SLOPE INTERCEPT

STATE ST

121+00

MATCH EXISTING
STA. 120+55

324 W. NORTH
WATER STREET

WATER ST

SLOPE INTERCEPT

323 W. NORTH WATER STREET

322 W. NORTH
WATER STREET

319 W. NORTH WATER STREET

5

5

765

760

755

750

STA 120+00.00
EL 759.31

STA 120+20.50
EL 758.78

STA 120+55.00
EL 758.98

MATCH EXISTING
STA. 120+55.00

EXISTING PROFILE

-2.56%

-0.57%

PROPOSED PROFILE ON R/L

EXISTING GRADE ON R/L

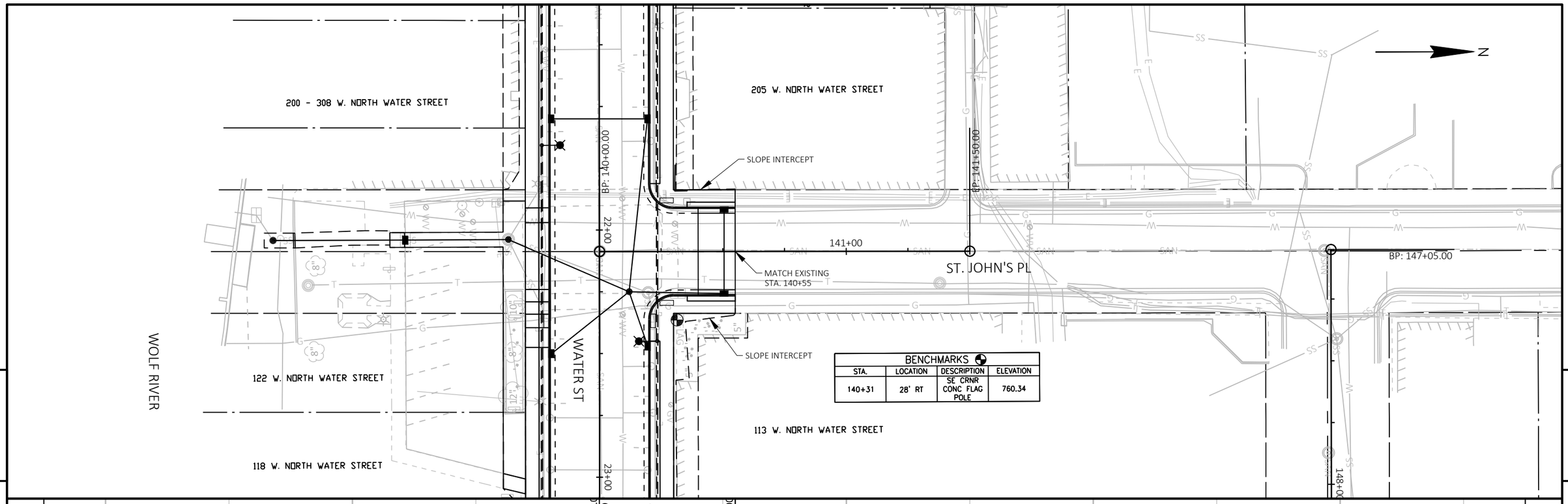
PROPOSED GRADE ON R/L

759.51
759.31

758.94
758.95

117 118 119 120 121 122 123 123

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	PLAN AND PROFILE: STATE STREET	SHEET 110	E

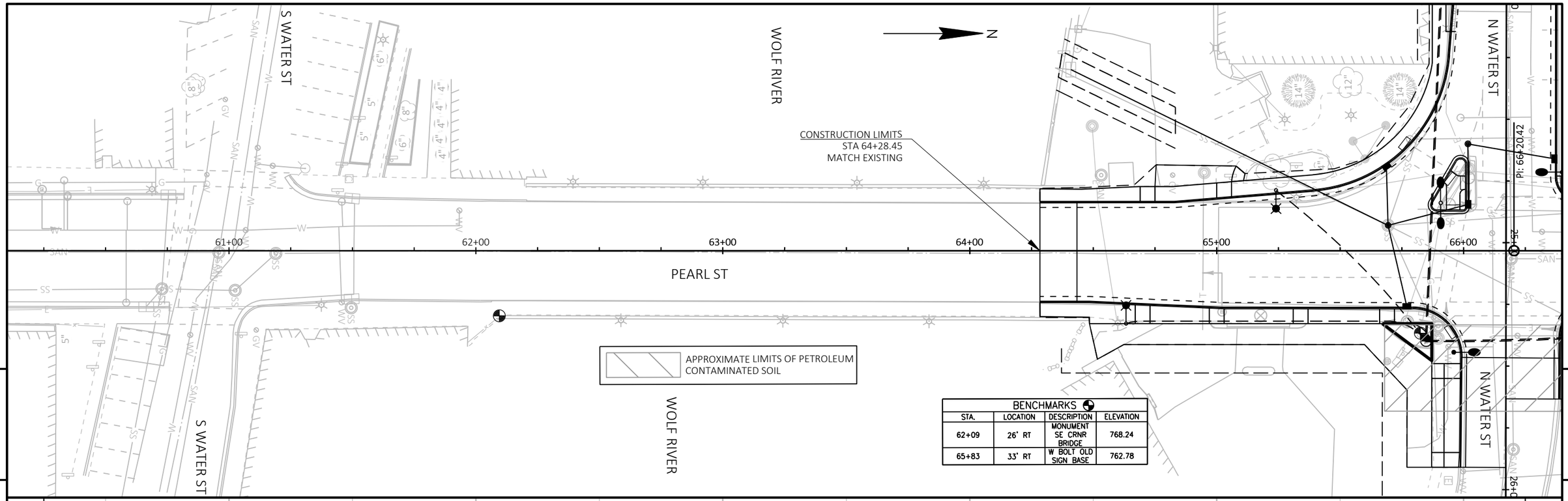


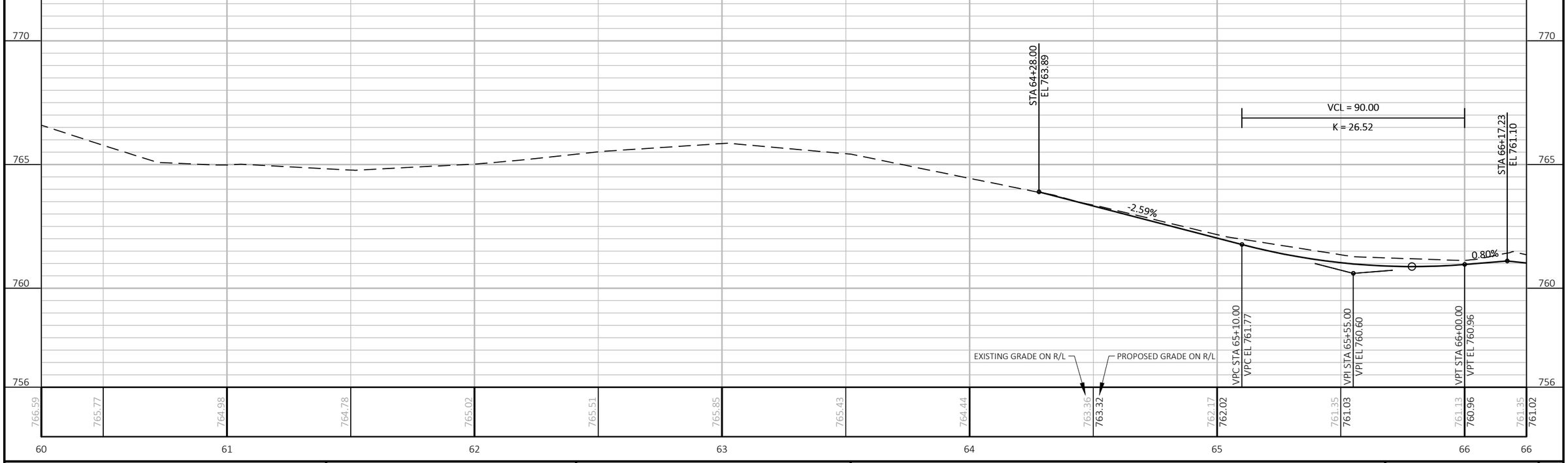
PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	PLAN AND PROFILE: SAINT JOHN'S PLACE	SHEET 111	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\05-PP\WATER STREET SIDE ROAD PLAN AND PROFILE.DWG
LAYOUT NAME - 05

PLOT DATE : 11/1/2023 8:24 AM PLOT BY : JOSH FREWERD PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

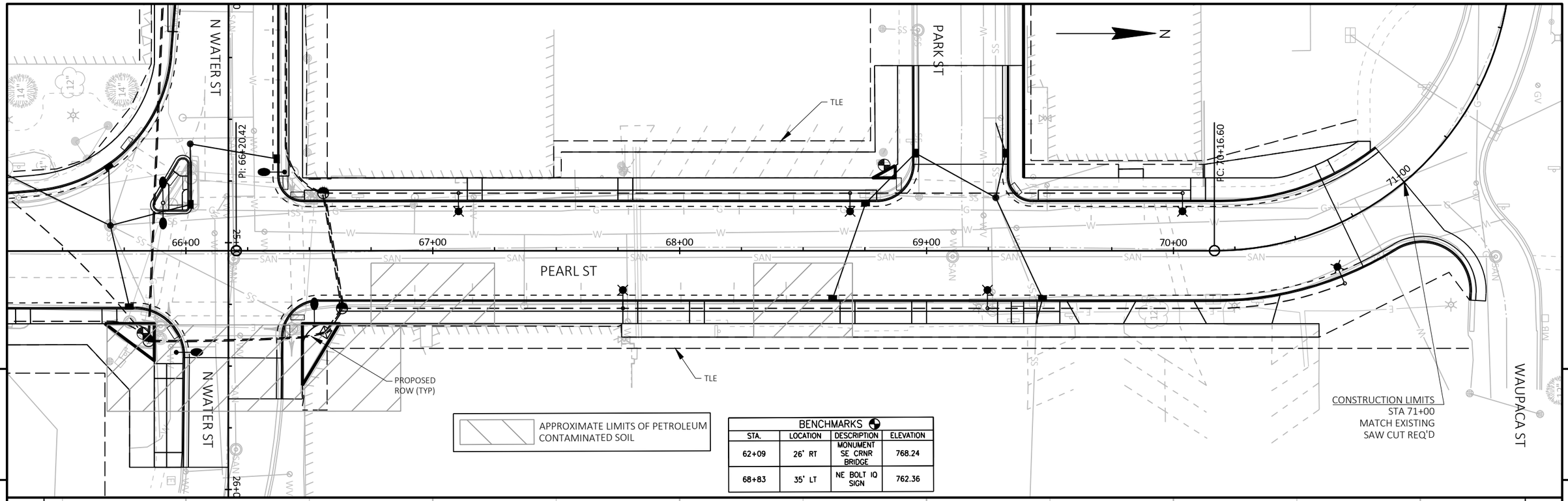




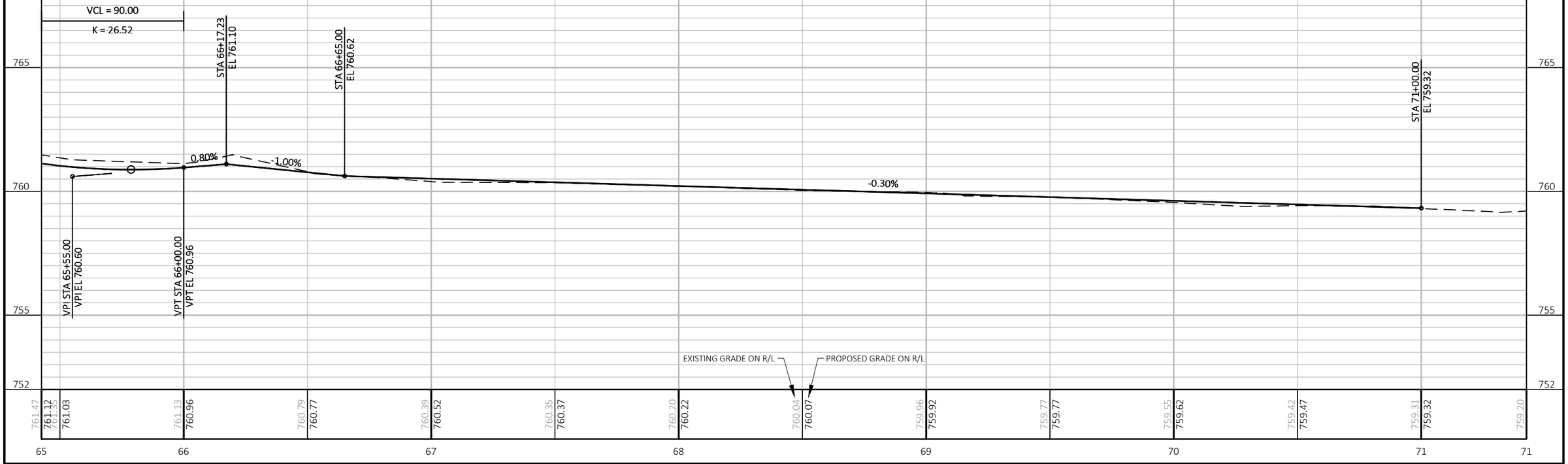
PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	PLAN AND PROFILE: PEARL STREET	SHEET 112	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\05-PP\PEARL STREET PLAN AND PROFILE.DWG
LAYOUT NAME - Sheet - (3)

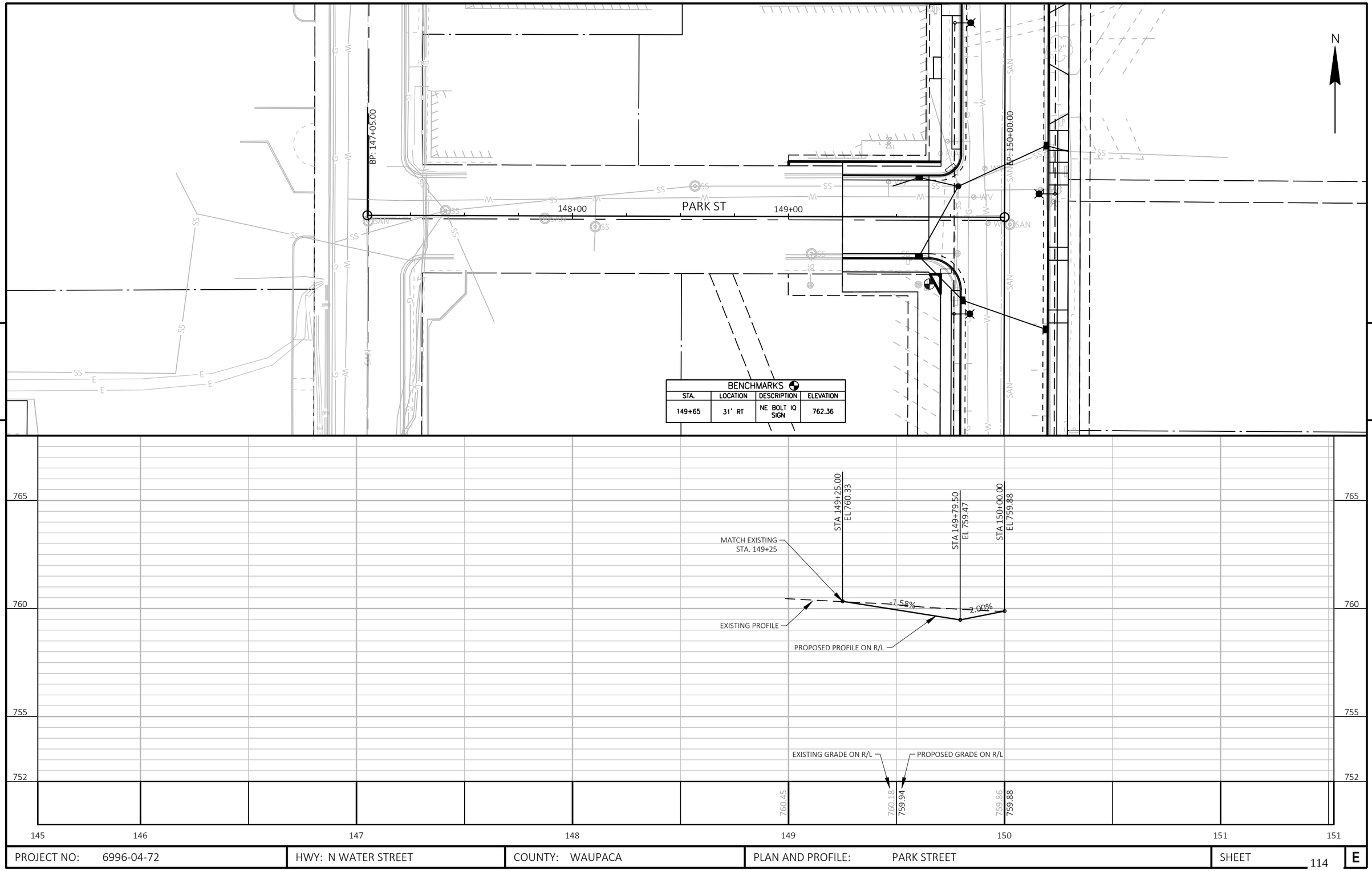
PLOT DATE : 12/6/2023 1:31 PM PLOT BY : JOSH FREWERD PLOT NAME : PLOT SCALE : 1 IN:40 FT



BENCHMARKS			
STA.	LOCATION	DESCRIPTION	ELEVATION
62+09	26' RT	MONUMENT SE CRNR BRIDGE	768.24
68+83	35' LT	NE BOLT IO SIGN	762.36



PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	PLAN AND PROFILE: PEARL STREET	SHEET 113	E



PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	PLAN AND PROFILE: PARK STREET	SHEET 114	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\05-PP\WATER STREET SIDE ROAD PLAN AND PROFILE.DWG
LAYOUT NAME - 06

PLOT DATE : 11/1/2023 8:24 AM PLOT BY : JOSH FREWERD PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

Standard Detail Drawing List

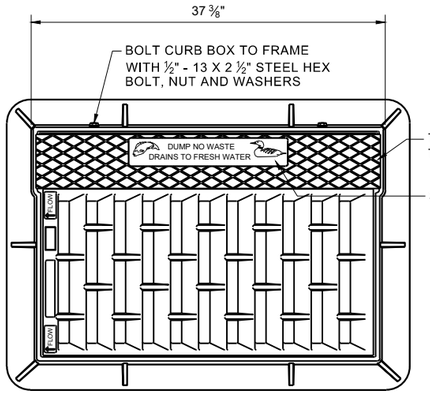
08A05-20A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-20B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-20D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-03	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT, 10-FT DIAMETER
08C06-02	INLETS 3-FT AND 4-FT DIAMETER
08C07-02	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08D01-23A	CONCRETE CURB & GUTTER
08D01-23B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D05-21A	CURB RAMPS TYPES 1 AND 1-A
08D05-21B	CURB RAMPS TYPES 2 AND 3
08D05-21C	CURB RAMPS TYPES 4A AND 4A1
08D05-21D	CURB RAMPS TYPE 4B AND 4B1
08D05-21E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-21F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-21G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08D18-04	DRIVEWAY AND SIDEWALK RAMPS TYPES X & Y
08D19-04	DRIVEWAY AND SIDEWALK RAMPS TYPE Z
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-08	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09B02-10	CONDUIT
09B04-12	PULL BOX
09B16-02	PULL BOX NON-CONDUCTIVE
09C02-09	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C06-07	CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL
09C14-03	CONCRETE CONTROL CABINET BASE, TYPE L
09D01-05	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09D02-03	SIGNAL CONTROL CABINET
09D04-03	LIGHTING CONTROL CABINET 120/240 VOLT
09E01-15B	POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS, TYPE 3 (HEAVY DUTY)
09E01-15G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E03-06	NON-FREEWAY LIGHTING UNIT POLE WIRING
09E06-05	TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.
09F15-04B	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)
11B02-02	CONCRETE MEDIAN NOSE
13B02-09A	CONCRETE PAVEMENT APPROACH SLAB
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C13-11	URBAN DOWELED CONCRETE PAVEMENT
13C18-08A	CONCRETE PAVEMENT JOINTING
13C18-08B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-08C	CONCRETE PAVEMENT JOINT TYPES
13C18-08D	CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES
13C18-08F	CONCRETE PAVEMENT INTERSECTION BOXOUT FOR INTEGRAL CURB AND GUTTER
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-09C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-15C	PAVEMENT MARKING ARROWS
15C08-23A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C08-23C	PAVEMENT MARKING (TURN LANES)
15C08-23D	PAVEMENT MARKING (TURN LANES)
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C18-08C	MEDIAN PAVEMENT MARKINGS DOUBLE ARROW WARNING SIGN PLACEMENT
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D30-09A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09B	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09D	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09F	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09G	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09H	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09I	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

6

Standard Detail Drawing List

15D30-09J	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09K	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09L	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

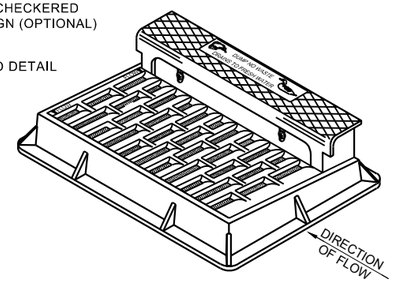
6



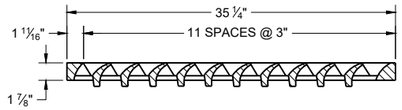
TYPE "C" CHECKERED TOP DESIGN (OPTIONAL)

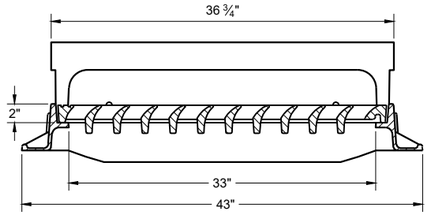
SEE LOGO DETAIL

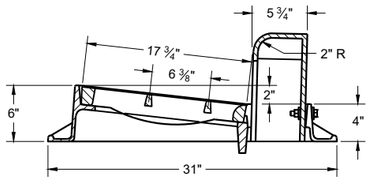
NOTE: EITHER CASTING IS ACCEPTABLE

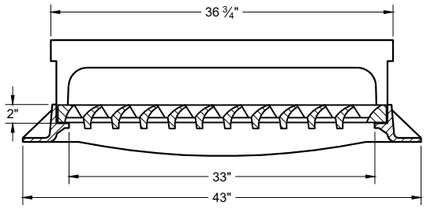


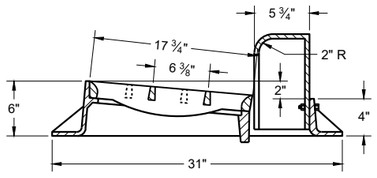
NOTE: CURB BOX HEIGHT ADJUSTABLE 6" - 9"







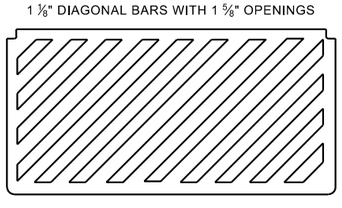




TYPE "H"

NOTE: EITHER CASTING IS ACCEPTABLE

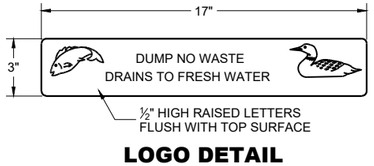
1 ⅛" DIAGONAL BARS WITH 1 ⅝" OPENINGS



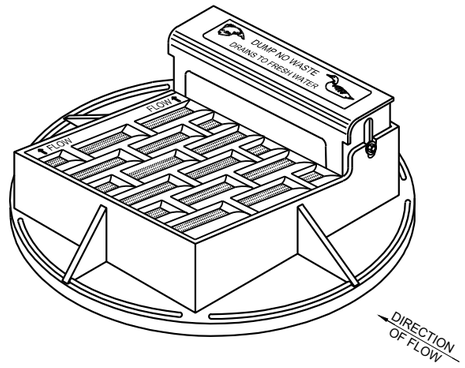
SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35" X 17 ¾" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)

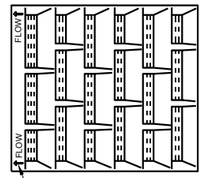


LOGO DETAIL

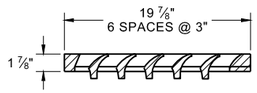


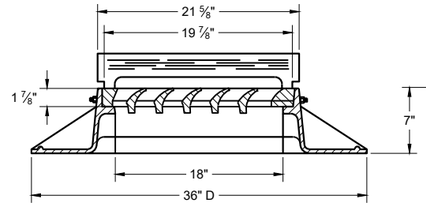
NOTE: CURB BOX HEIGHT ADJUSTABLE 6" - 9"

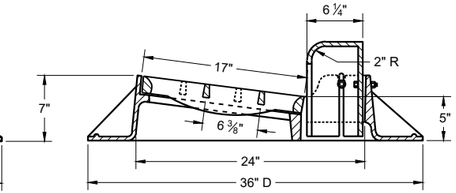
NOTE: EITHER CASTING IS ACCEPTABLE



DIRECTION OF FLOW ARROWS







TYPE "A"

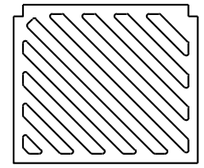
GENERAL NOTES

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

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

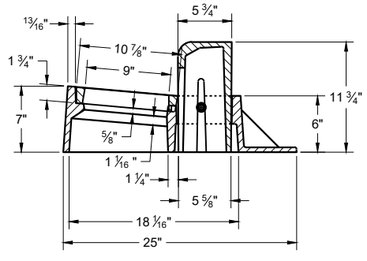
1" DIAGONAL BARS WITH 1 ½" OPENINGS

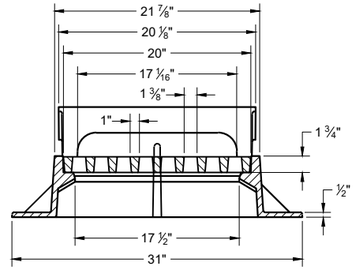


SPECIAL GRATE FOR TYPE "A" COVER

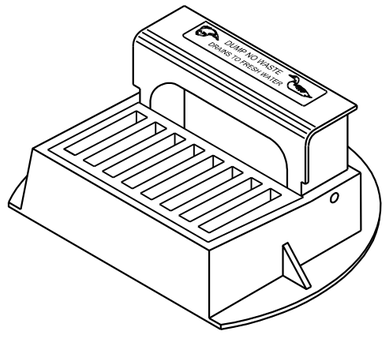
(MEASURES 19 ¾" X 17" X 1 ⅞")

(NOTED AS TYPE A-S ON DRAINAGE TABLE)





TYPE "Z"



INLET COVERS TYPES A, H, A-S, H-S AND Z

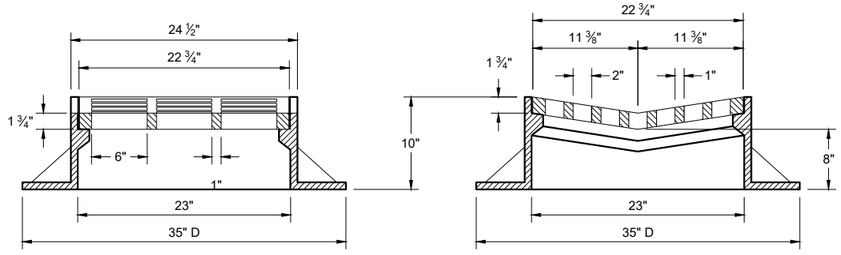
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

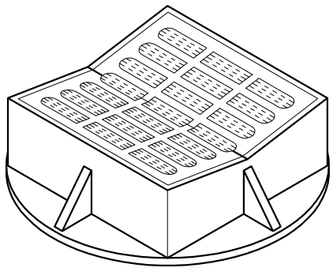
APPROVED
July 2023
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

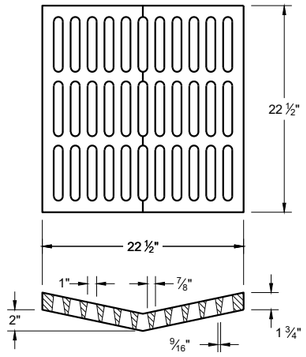
FHWA

SDD 08A05-20a





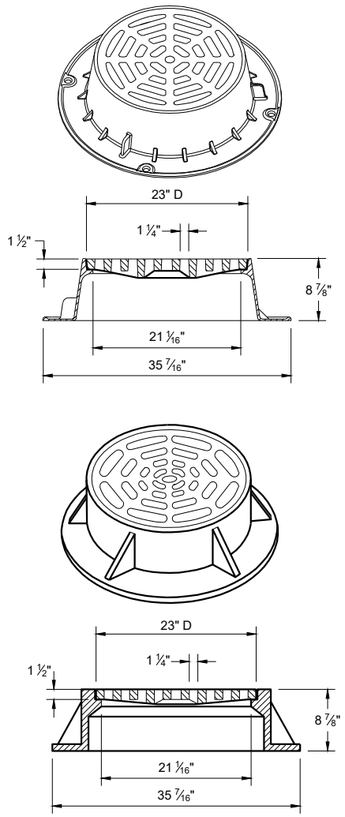
TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OF BICYCLE TRAFFIC IS POSSIBLE

NOTED AS TYPE B - A ON THE DRAINAGE TABLE



TYPE "C"

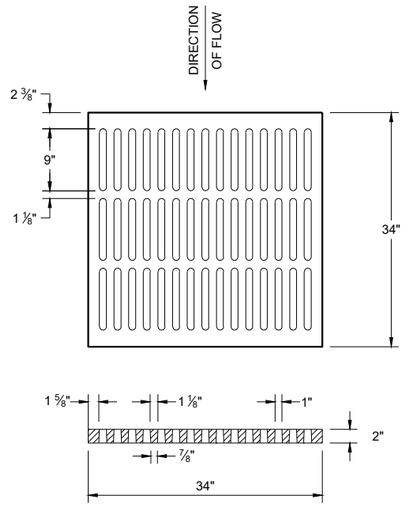
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

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

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

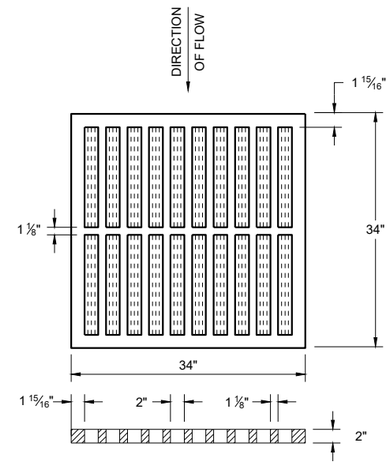
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OF BICYCLE TRAFFIC IS PERMITTED

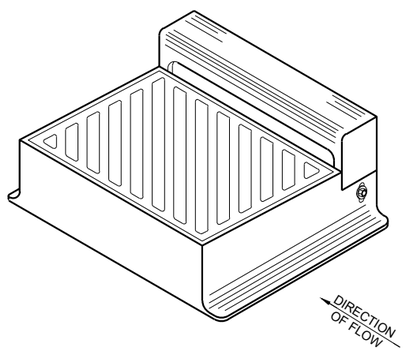
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE



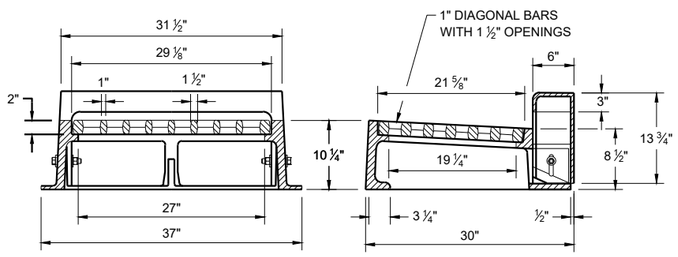
TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS

NOTED AS TYPE MS ON THE DRAINAGE TABLE



DIAGONAL SLOTS SHALL BE ORIENTEDTO THE DIRECTION OF FLOW AS ILLUSTRATED.
GRATES ARE MANUFACTURED TO BE REVERSIBLE.



TYPE "WM"

NOTE: CURB BOX HEIGHT ADJUSTABLE 6" - 9"

INLET COVERS TYPES B, B-A, C, MS, MS-A AND WM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2023 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

6

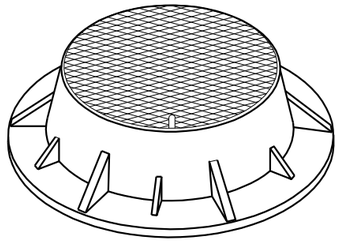
SDD 08A05-20b

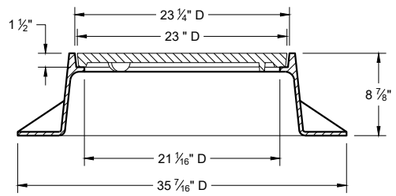
GENERAL NOTES

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

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

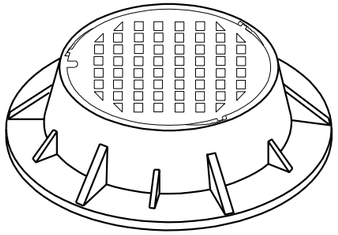
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

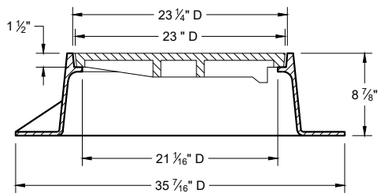




TYPE "J"

NOTE: EITHER CASTING IS ACCEPTABLE

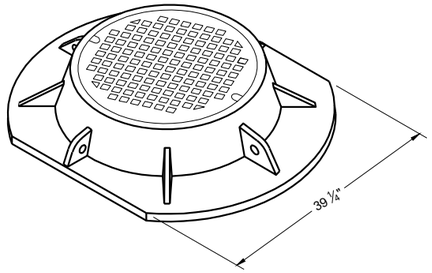


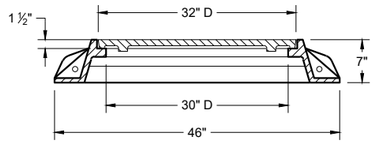


TYPE "J" SPECIAL

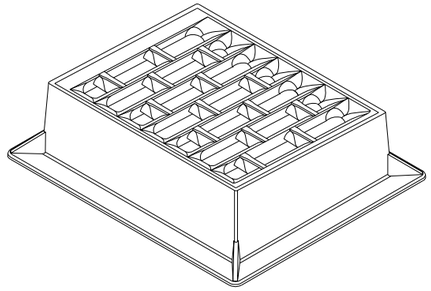
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)

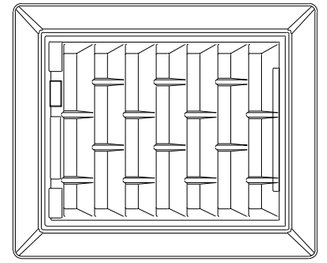
NOTE: EITHER CASTING IS ACCEPTABLE

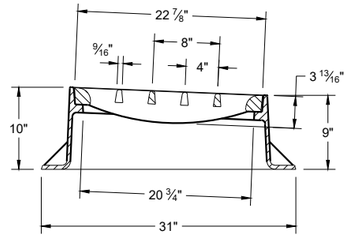


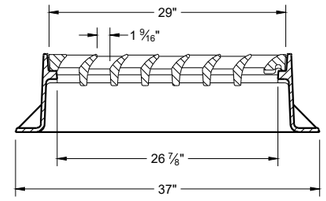


TYPE "K"

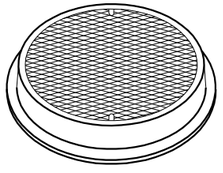


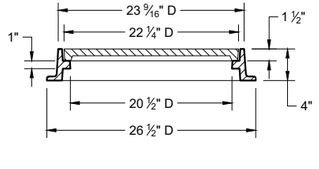




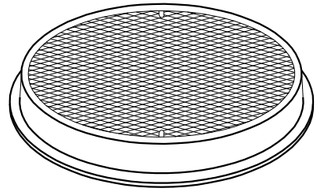


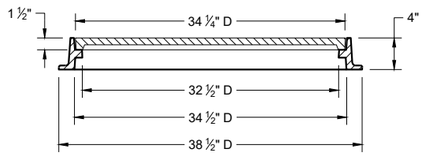
INLET COVER TYPE "BW"





TYPE "L"





TYPE "M"

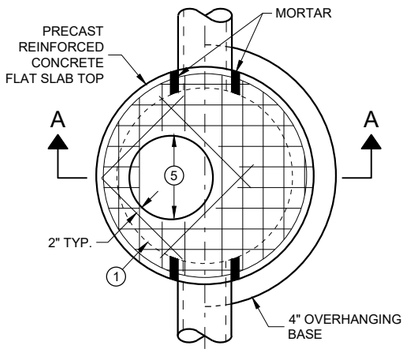
INLET COVERS TYPES BW
MANHOLE COVERS TYPES K, J, J-S, L, AND M

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

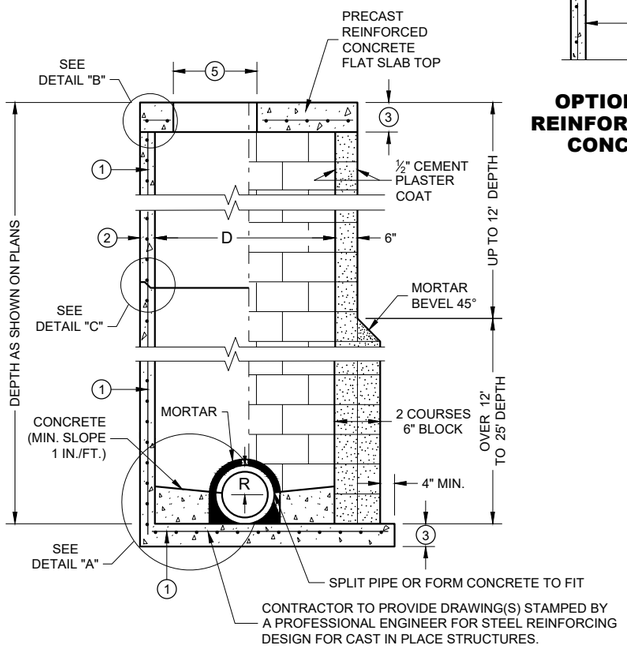
APPROVED
July 2023 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

6
SDD 08A05-20d



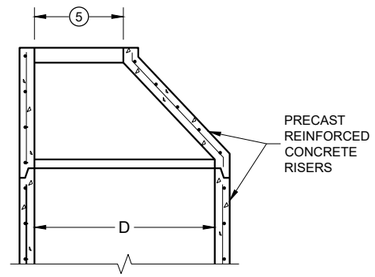
PLAN VIEW
CIRCULAR OPENING



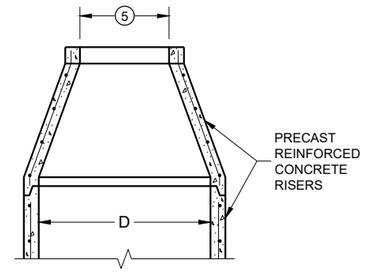
SECTION A - A

PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST IN PLACE OR PRECAST REINFORCED CONCRETE BASE (1)



OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP



OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

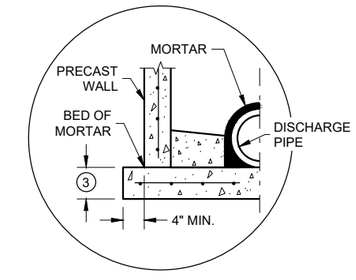
MANHOLE COVER OPENING MATRIX

OPENING SIZE (FT.) \ MANHOLE COVER TYPE	C	ALL J'S	K	L	M
2 DIA.	X	X		X	
3 DIA.			X		X

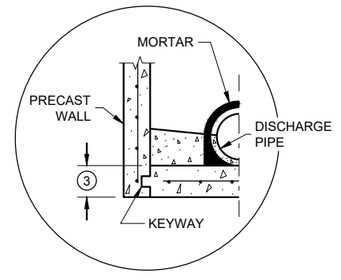
PIPE MATRIX

MANHOLE SIZE (DIA.)	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES		MINIMUM WALL THICKNESS (IN)	MINIMUM PRECAST FLAT SLAB TOP AND BASE THICKNESS
	180° SEPARATION (IN)	90° SEPARATION (IN)		
3-FT	15	12	4	6
4-FT	24	18	4	6
5-FT	36	24	5	8
6-FT	42	36	6	8
7-FT	48	36/42*	7	8
8-FT	60	42	8	8
9-FT	66	54	9	10
10-FT	72	60	10	10

*A 36" PIPE AND A 42" PIPE CAN BE PLACED WITHIN 90 DEGREES.
SEE MINIMUM HORIZONTAL PIPE SEPARATION DETAIL.

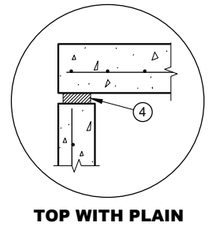


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

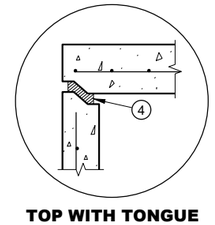


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

DETAIL "A"

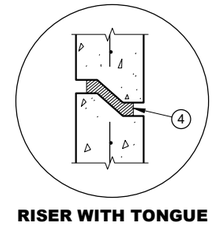


TOP WITH PLAIN END JOINT



TOP WITH TONGUE AND GROOVE JOINT

DETAIL "B"



RISER WITH TONGUE AND GROOVE JOINT

DETAIL "C"

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONCRETE CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES. CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½ INCH AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

CONCRETE BLOCK WILL NOT BE PERMITTED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "D".

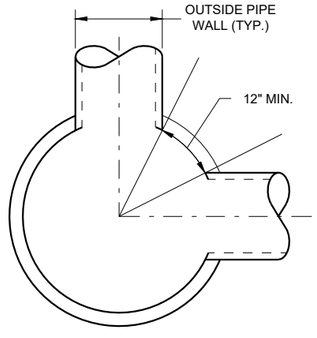
(1) FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

(2) SEE PIPE MATRIX TABLE FOR MINIMUM WALL THICKNESS FOR PRECAST MANHOLES

(3) SEE PIPE MATRIX TABLE FOR MINIMUM THICKNESS OF PRECAST FLAT SLAB TOPS AND BASES.

(4) JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP.).

(5) SEE MANHOLE COVER OPENING MATRIX.



MINIMUM HORIZONTAL PIPE SEPARATION

MANHOLES, 3-FT, 4-FT 5-FT, 6-FT, 7-FT, 8-FT, 9-FT AND 10-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

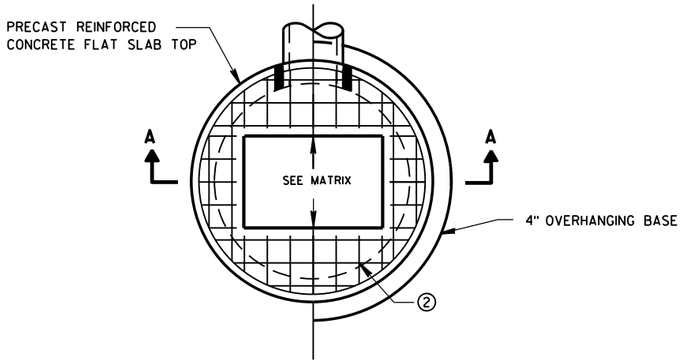
APPROVED
November 2021 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER

FHWA

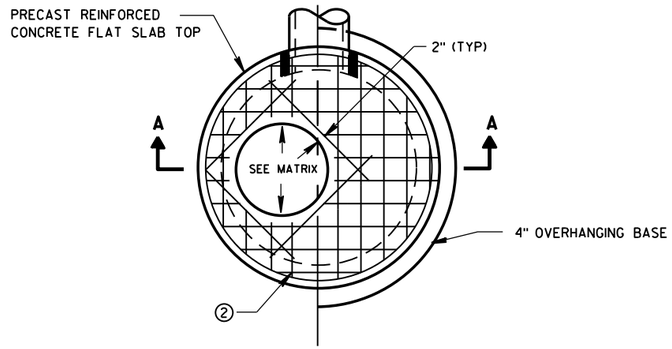
MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT AND 10-FT DIAMETER

6

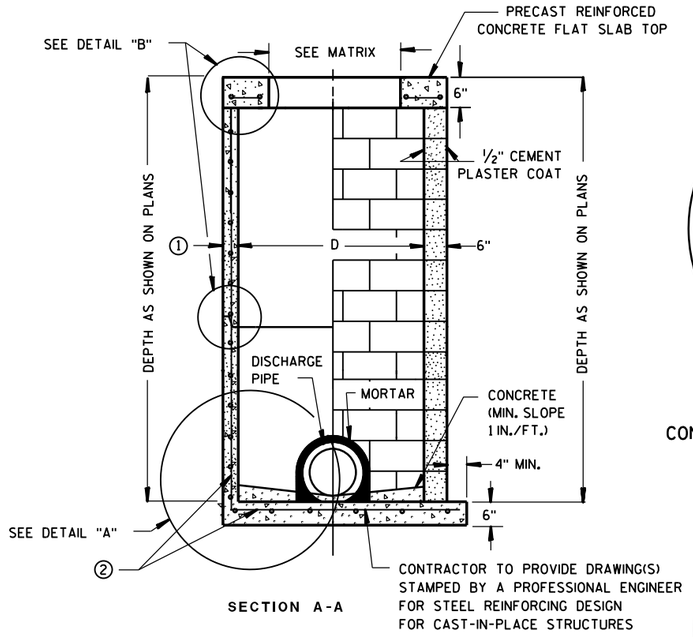
SDD 08B09 - 03



PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

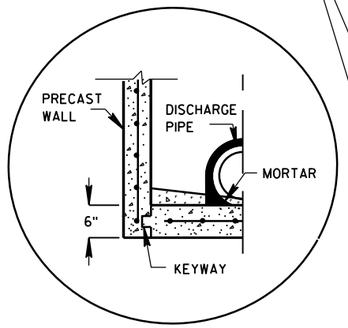


SECTION A-A

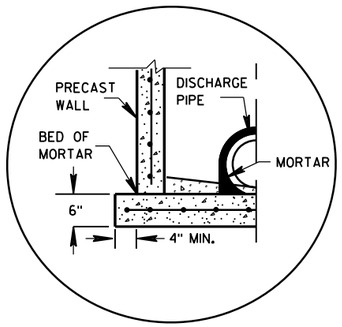
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

CIRCULAR INLETS W/ FLAT TOP

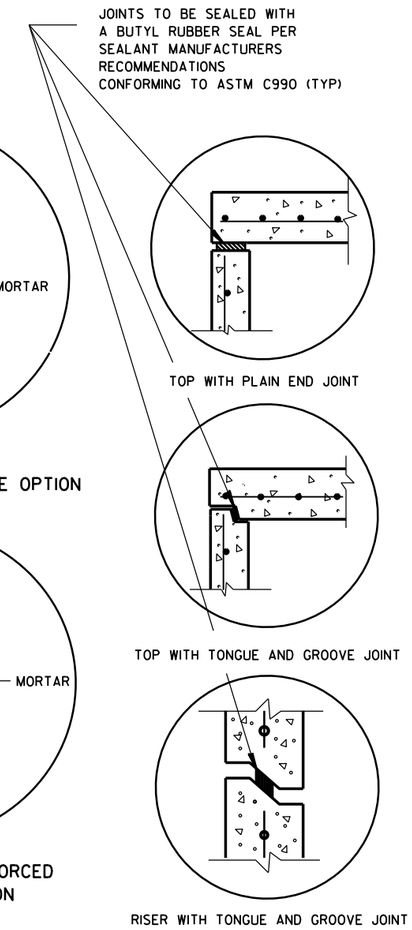


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "B"

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

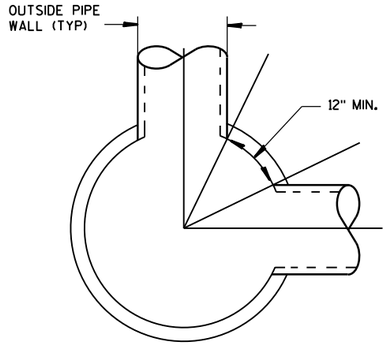
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

INLET COVER OPENING MATRIX

	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
INLET SIZE	OPENING SIZE (FT)											
3-FT	2 DIA.				X							X
	2X2	X	X					X		X		
4-FT	2 DIA.				X							X
	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2X3						X					
	2.5X3					X						



DETAIL "C"

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18

INLETS 3-FT AND 4-FT DIAMETER

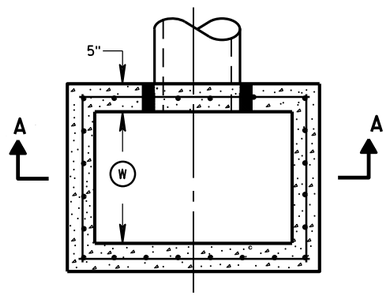
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept.. 2016 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS | UNIT SUPERVI ENT
FHWA

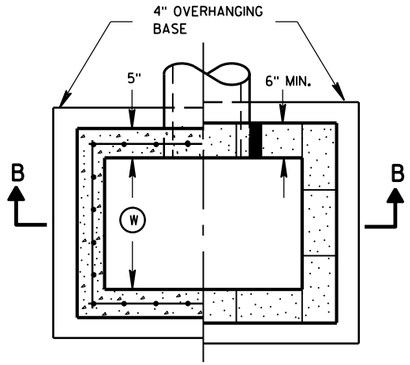
INLETS 3-FT AND 4-FT DIAMETER

6

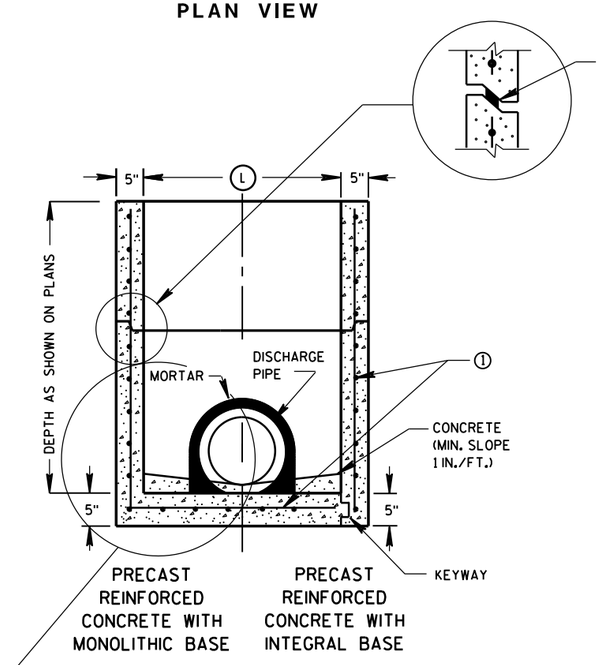
S.D.D. 8 C 6-2



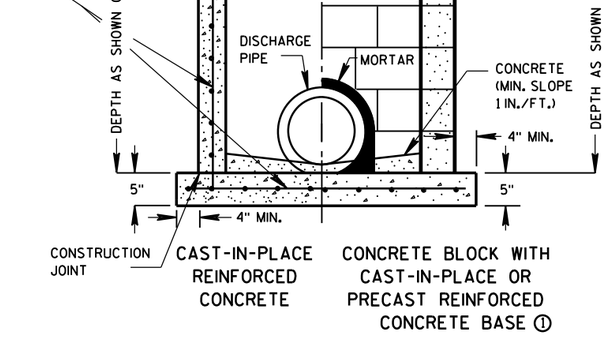
PLAN VIEW



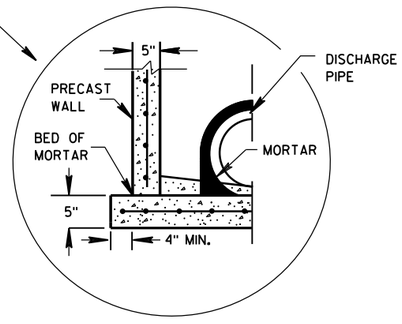
PLAN VIEW



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

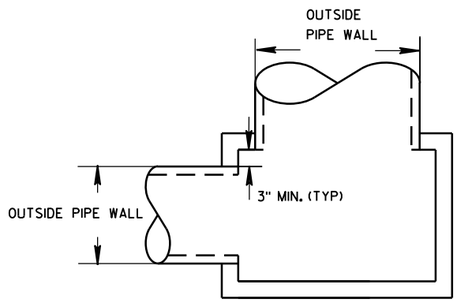
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH (W) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



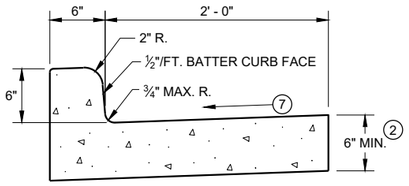
DETAIL "A"

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

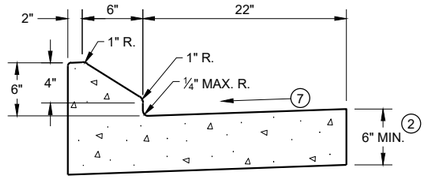
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS D IT UNIT SUPERVIS
FHWA

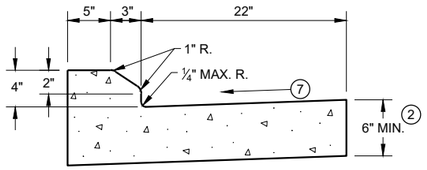
INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT



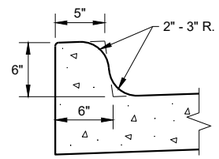
TYPES A (1) & D



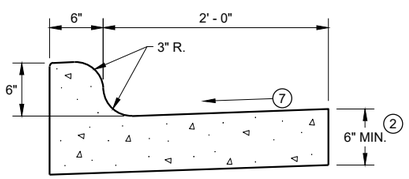
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

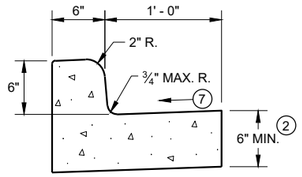


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



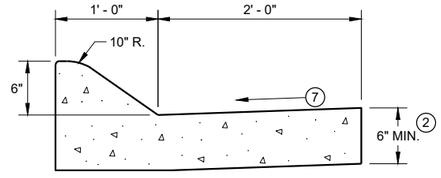
TYPES K (1) & L

CONCRETE CURB AND GUTTER 30"

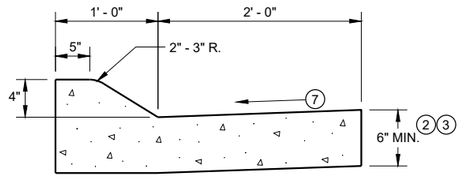


TYPES A (1) & D

CONCRETE CURB AND GUTTER 18"

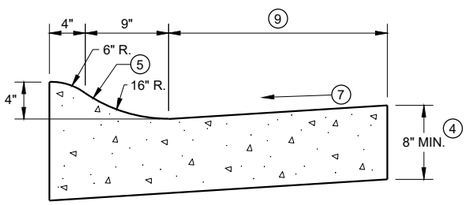


6" SLOPED CURB TYPES A (1) & D



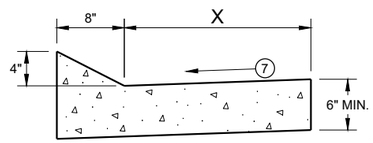
4" SLOPED CURB TYPES A (1) & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R (1) & T

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

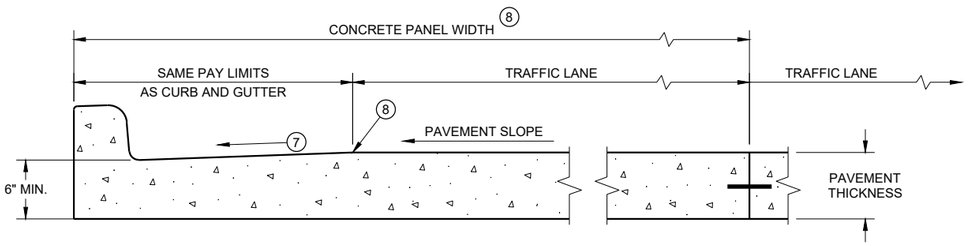


TYPES TBT & TBTT (1)

CONCRETE CURB AND GUTTER

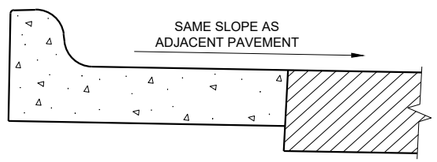
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

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



PARTIAL SECTION OF PAVEMENT * WITH INTEGRAL CURB AND GUTTER

* BIKE LANE IS NOT SHOWN



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

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

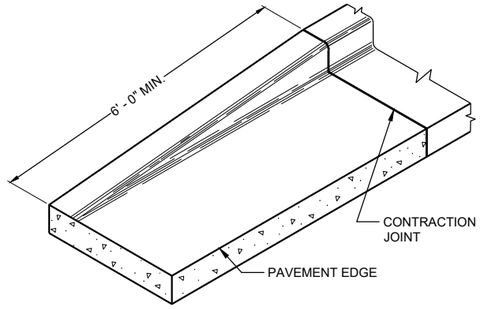
(8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

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

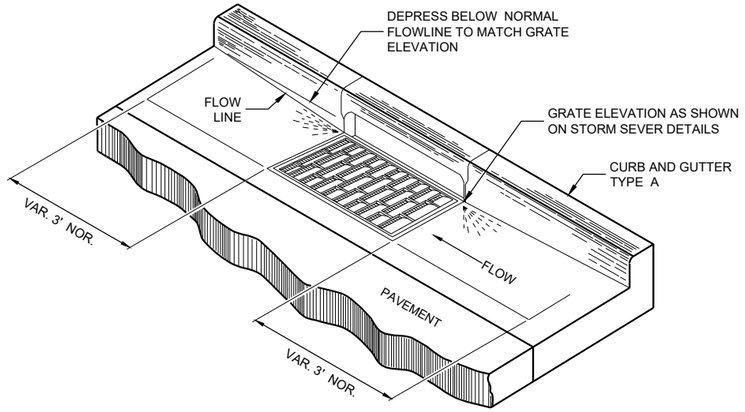
CONCRETE CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
SDD 08D01 - 23a



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.

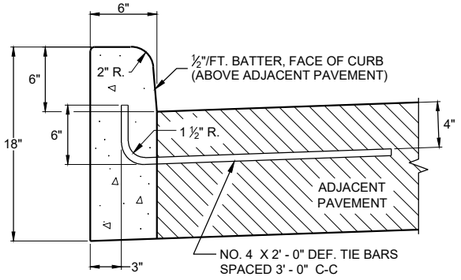
UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

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

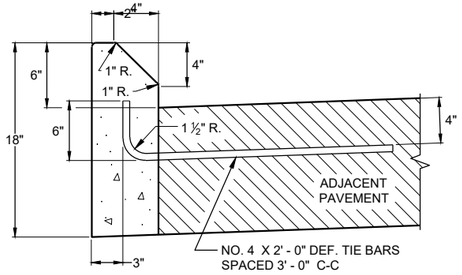
(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

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

(11) PLACE 1" THICK EXPANSION JOINT MATERIAL BETWEEN VERTICAL FACE CURB TYPES EXTENDING FROM THE TOP OF CURB TO 1 INCH BELOW THE ADJOINING CONCRETE SURFACE. RIGID CONCRETE STRUCTURES INCLUDE RAISED CONCRETE MEDIANS, CONCRETE SAFETY ISLANDS, SPLITTER ISLANDS, OR LOCATIONS IDENTIFIED ON THE PLANS.

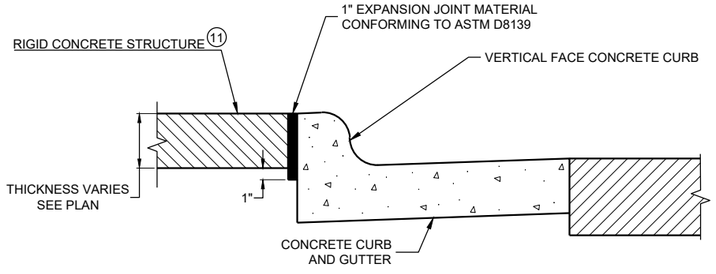


TYPES A (1) & D

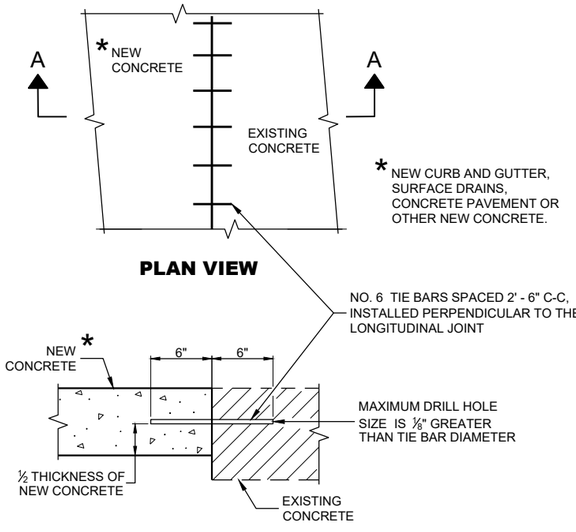


TYPES G (1) & J

CONCRETE CURB



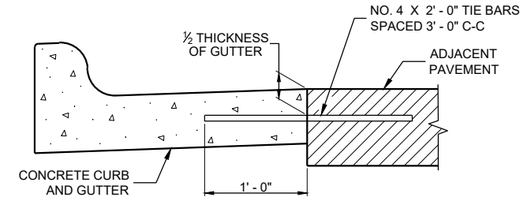
EXPANSION JOINT DETAIL FOR VERTICAL CURB ABUTTING A RIGID STRUCTURE (11)



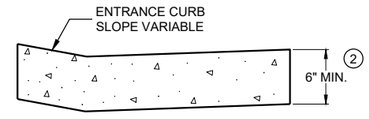
PLAN VIEW

SECTION A - A

TIE BARS DRILLED INTO EXISTING PAVEMENT



TYPICAL TIE BAR LOCATION (1)



DRIVEWAY ENTRANCE CURB (10)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

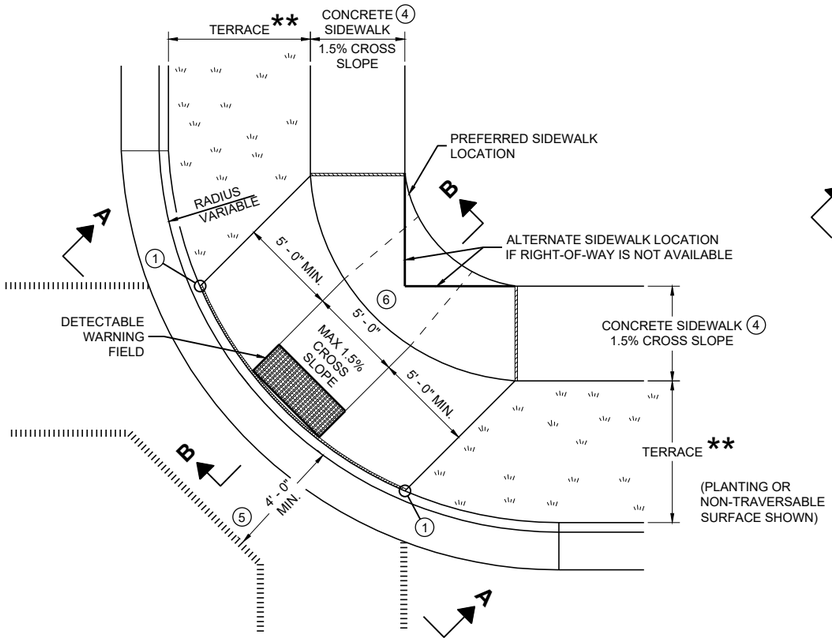
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Rodnery Taylor — ROADWAY STANDARDS DEVE ENGINEER

FHWA

6

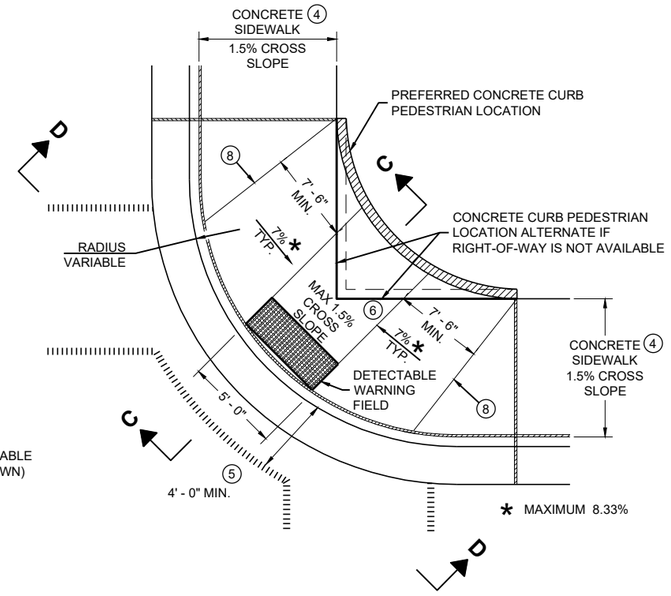
SDD08D01 - 23b



PLAN VIEW

CURB RAMP TYPE 1

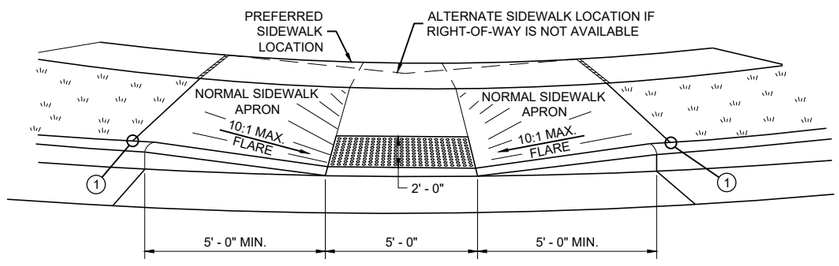
(CENTER OF CORNER RADIUS)



PLAN VIEW

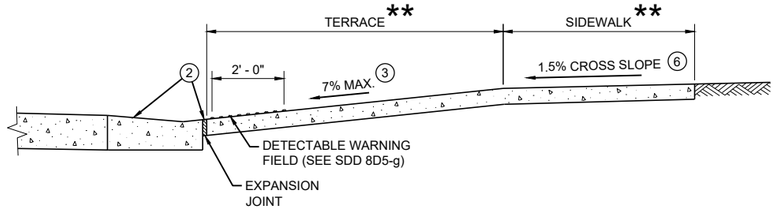
CURB RAMP TYPE 1 - A

(NO TERRACE)

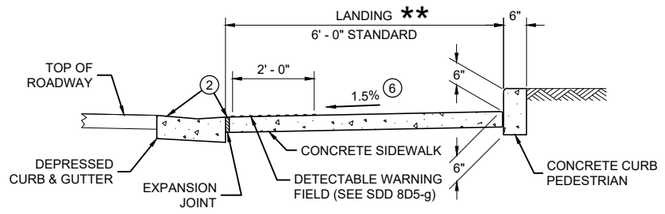


VIEW A - A FOR TYPE 1

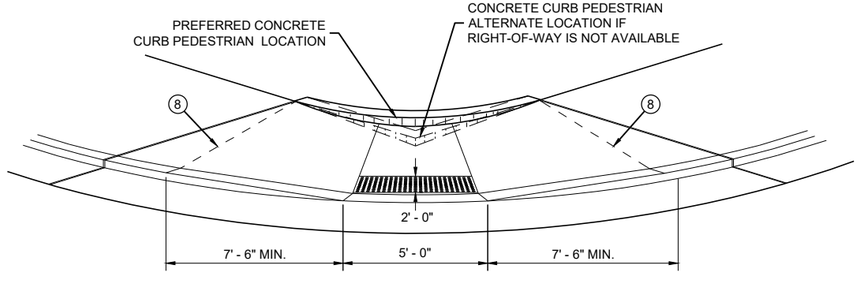
** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B - B FOR TYPE 1



SECTION C - C FOR TYPE 1 - A



VIEW D - D FOR TYPE 1 - A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 CURB RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FILED SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAR FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD"

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

(1) THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB. POINT LOCATION MAY BE ADJUSTED TO ALIGN WITH BEGINNING OF FULL-HEIGHT CURB IF THIS DISTANCE IS SHORT.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) MAXIMUM 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(5) PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA. 4 FOOT WIDTH IS MEASURED FROM THE FLANGE LINE

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

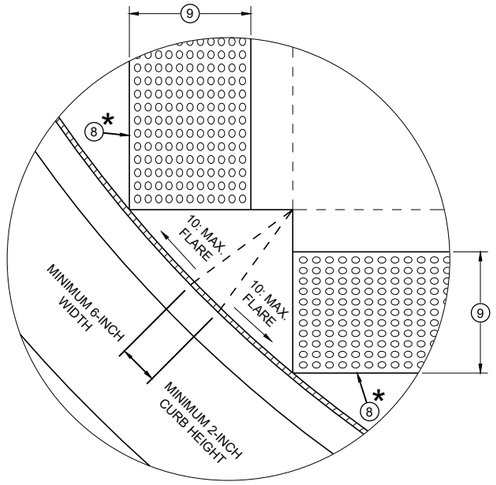
LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

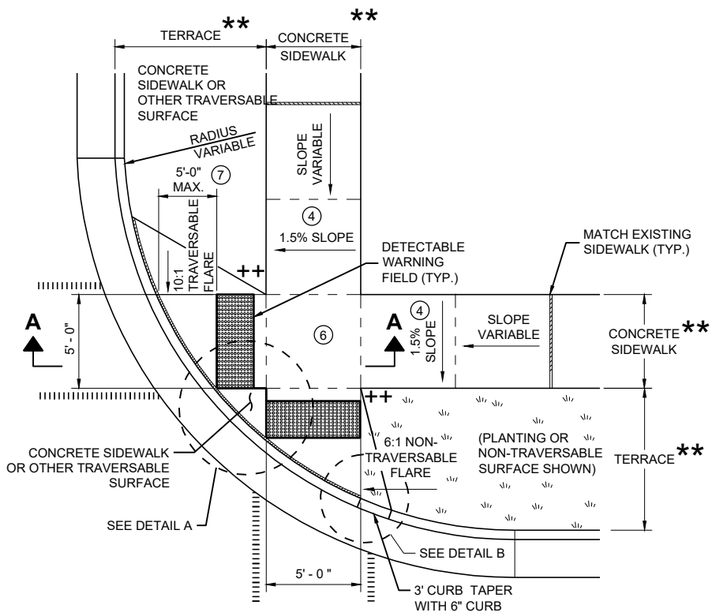
CURB RAMPS TYPE 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
SDD 08D05-21a



DETAIL A



PLAN VIEW
CURB RAMP TYPE 2
(CENTER OF CORNER RADIUS)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE (2.67% OR LESS) AND NOT TO EXCEED 11% GRADE CHANGE.

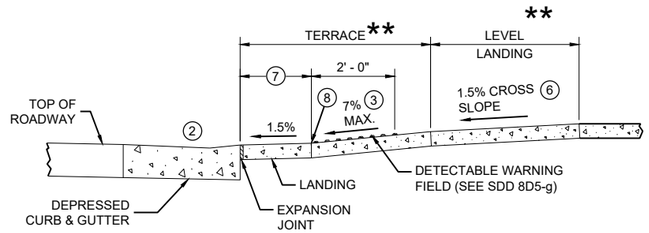
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET X 5 FEET.

(7) WHEN GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(9) WHEN DISTANCE IS LESS THAN 6' - 0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.

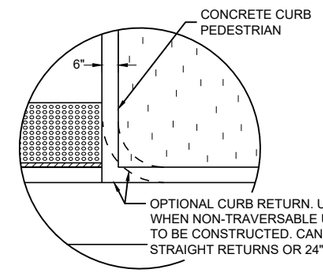


SECTION A - A FOR TYPE 2

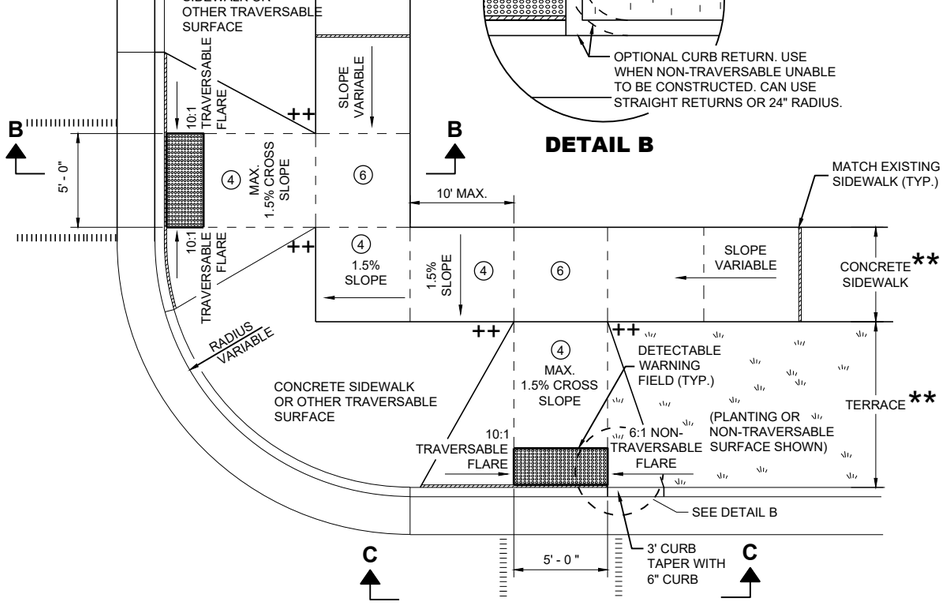
* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS

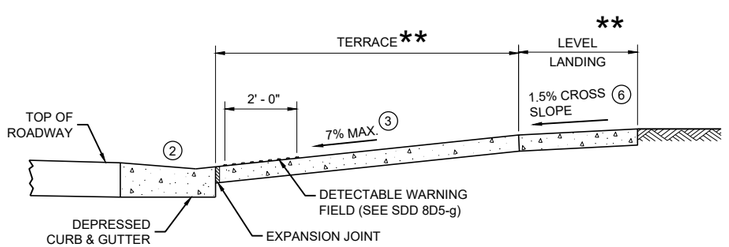
++ CONSTRUCT 6" WEDGE TO AVOID CONCRETE BREAKAGE



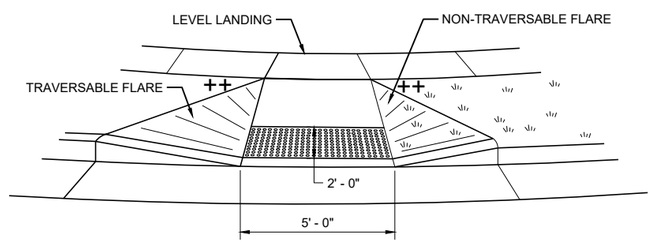
DETAIL B



PLAN VIEW
CURB RAMP TYPE 3
(OUTSIDE OF CROSSWALK AREA)



SECTION B - B FOR TYPE 3



VIEW C - C FOR TYPE 3

LEGEND

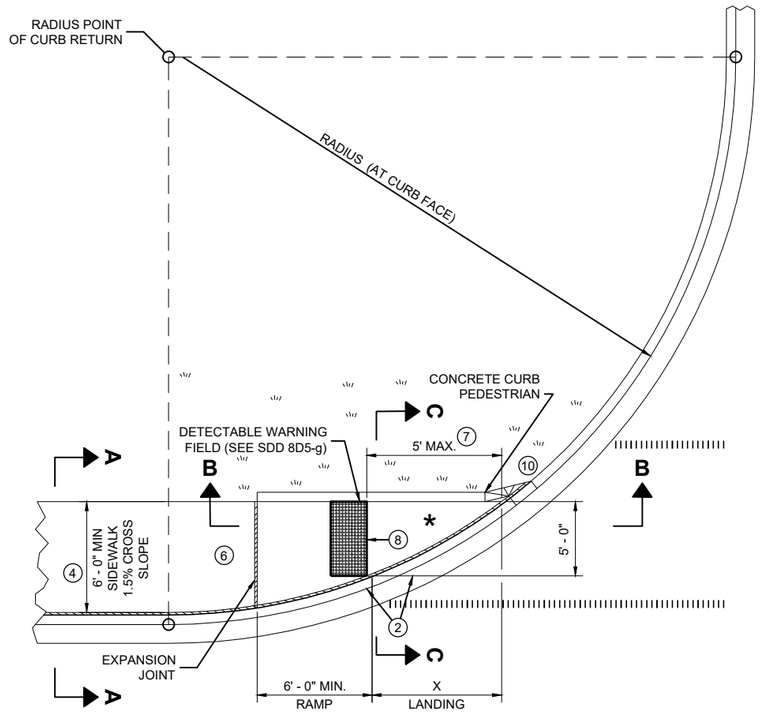
½" EXPANSION JOINT SIDEWALK

CONTRACTION JOINT SIDEWALK

PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS TYPE 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

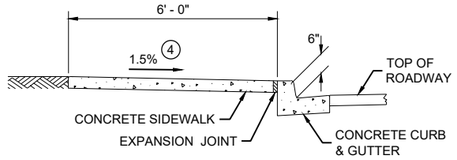


PLAN VIEW

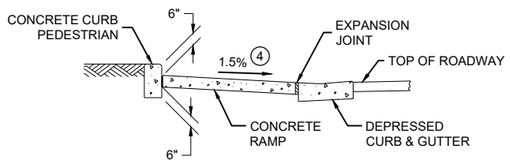
CURB RAMP TYPE 4A

RADIUS (AT CURB FACE)	X
10 FEET	4' - 7"

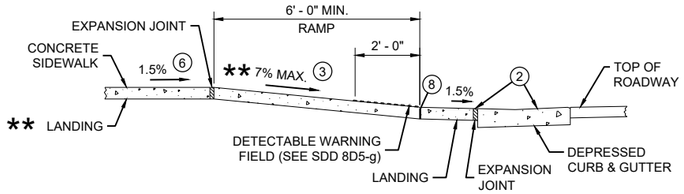
INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A - A FOR TYPE 4A



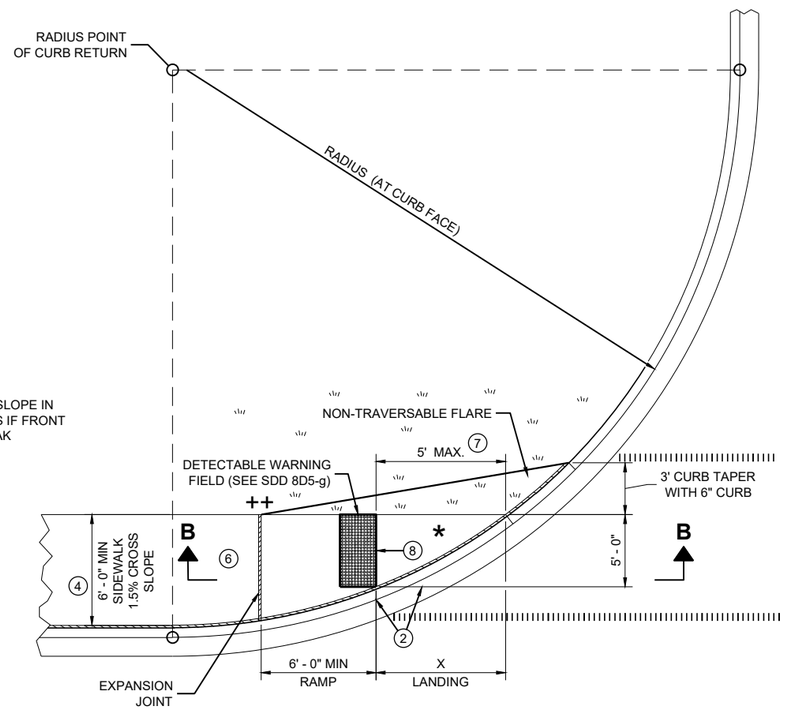
SECTION C - C FOR TYPE 4A



SECTION B - B FOR TYPE 4A AND TYPE 4A1

** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK



PLAN VIEW

CURB RAMP TYPE 4A1

++ CONSTRUCT 6" WEDGE TO AVOID CONCRETE BREAKAGE

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

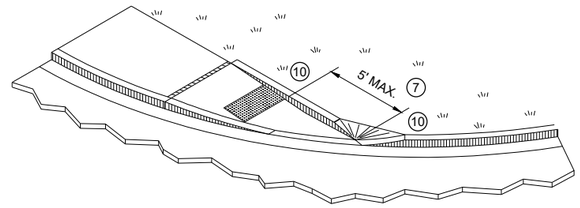
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

LEGEND

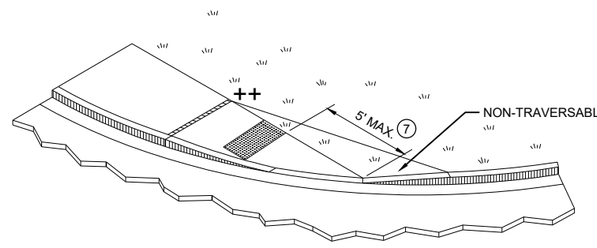
½" EXPANSION JOINT SIDEWALK

CONTRACTION JOINT SIDEWALK

PAVEMENT MARKING CROSSWALK (WHITE)



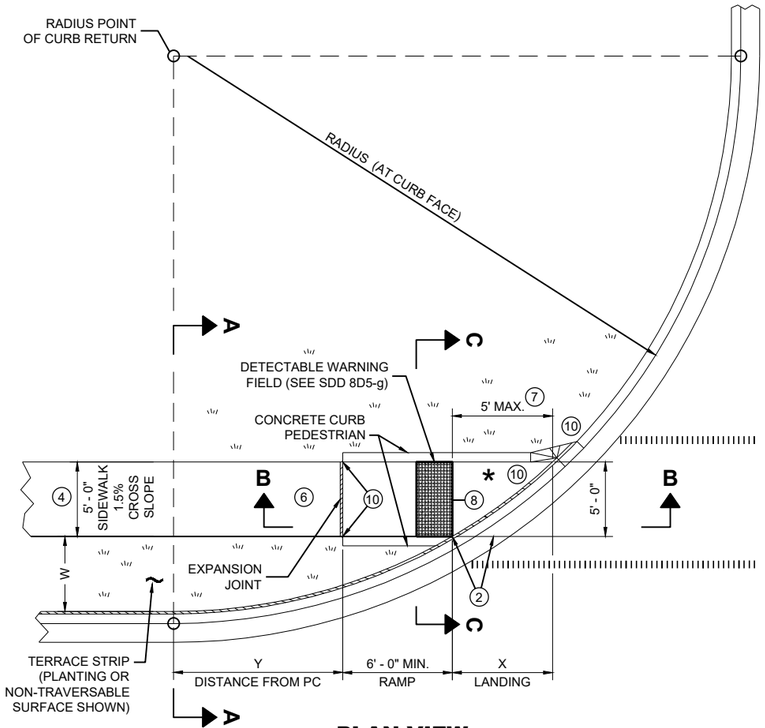
ISOMETRIC VIEW FOR TYPE 4A



ISOMETRIC VIEW FOR TYPE 4A1

CURB RAMPS
TYPE 4A AND 4A1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



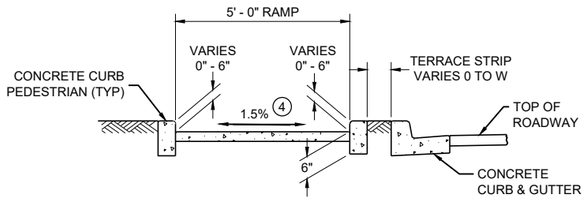
PLAN VIEW
CURB RAMP TYPE 4B

RADIUS (AT CURB FACE)	W = 3' - 0"		W = 4' - 0"		W = 5' - 0"		W = 6' - 0"		W = 7' - 0"		W = 8' - 0"		W = 9' - 0"		W = 10' - 0"	
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
10 FEET	2' - 10 1/4"	0' - 5"	2' - 1"	1' - 4 1/2"	1' - 5"	2' - 1"	0' - 10"	2' - 7 1/2"	0' - 3 1/4"	3' - 0 1/4"						
15 FEET	4' - 6 3/4"	2' - 1 3/4"	3' - 9"	3' - 5 3/4"	3' - 1 1/4"	4' - 6"	2' - 6 3/4"	5' - 4 1/2"	2' - 1"	6' - 1"	1' - 8"	6' - 8 1/2"	1' - 3 1/4"	7' - 2 1/2"	0' - 10 3/4"	7' - 7 1/4"
20 FEET			4' - 11 1/2"	5' - 1 3/4"	4' - 3 1/4"	6' - 5 1/2"	3' - 8 3/4"	7' - 7"	3' - 3"	8' - 6 1/2"	2' - 10"	9' - 4 1/2"	2' - 5 1/2"	10' - 1 1/4"	2' - 1 1/4"	10' - 9"
30 FEET									4' - 10 3/4"	12' - 5 3/4"	4' - 5 1/2"	13' - 7 3/4"	4' - 0 3/4"	14' - 8 1/2"	3' - 8 1/2"	15' - 8 1/4"
40 FEET															4' - 10 3/4"	19' - 8 1/4"

INTERMEDIATE RADII CAN BE INTERPOLATED
DIMENSION "Y" IS CALCULATED BASED ON 6'-0" RAMP LENGTH
DIMENSION "X" IS CALCULATED BASED ON 5'-0" SIDEWALK WIDTH

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)



SECTION C - C FOR TYPE 4B

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

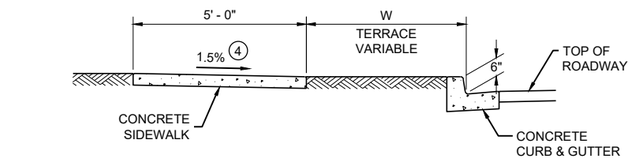
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

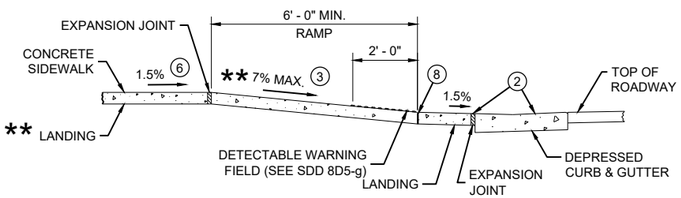
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

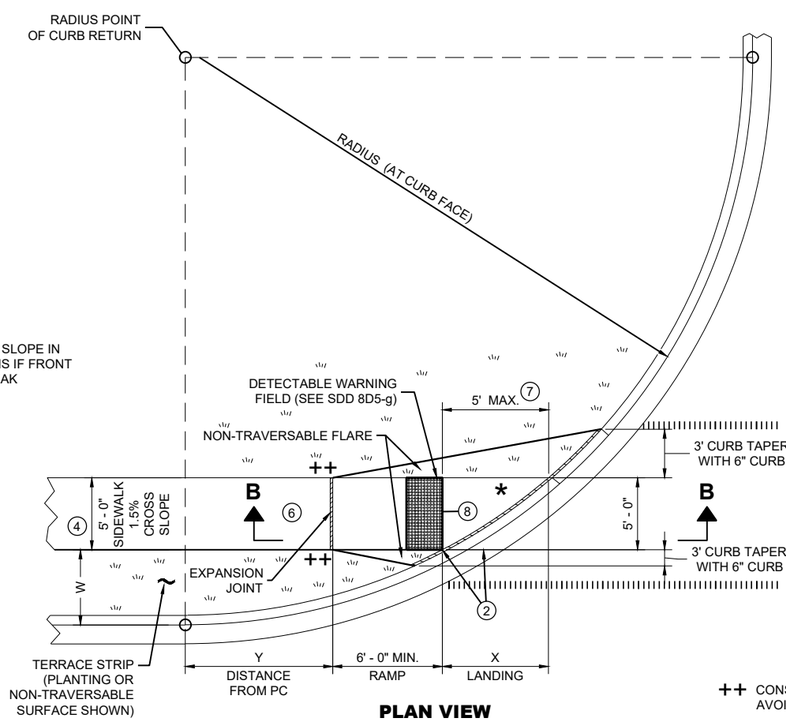


SECTION A - A FOR TYPE 4B



** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

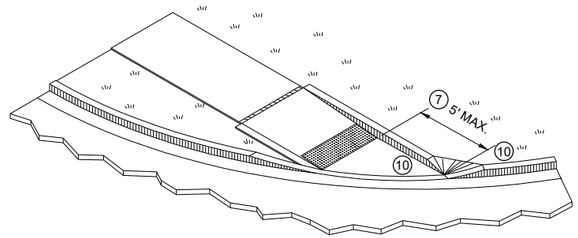
SECTION B - B FOR TYPE 4B AND TYPE 4B1



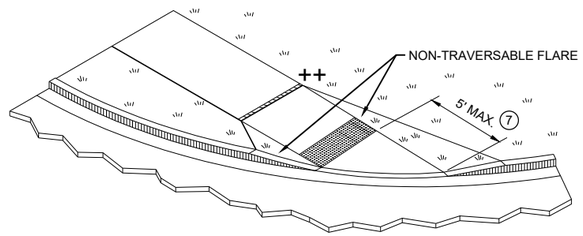
PLAN VIEW
CURB RAMP TYPE 4B1

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK

++ CONSTRUCT 6" WEDGE TO AVOID CONCRETE BREAKAGE



ISOMETRIC VIEW FOR TYPE 4B



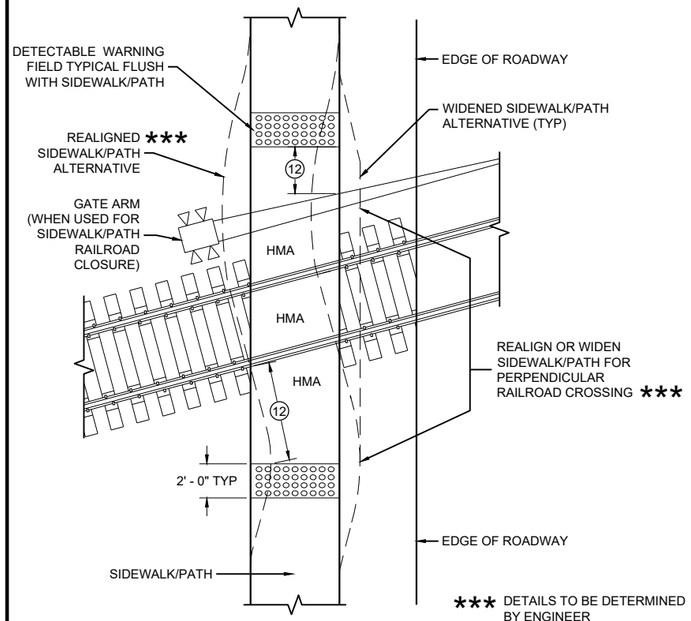
ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS
TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

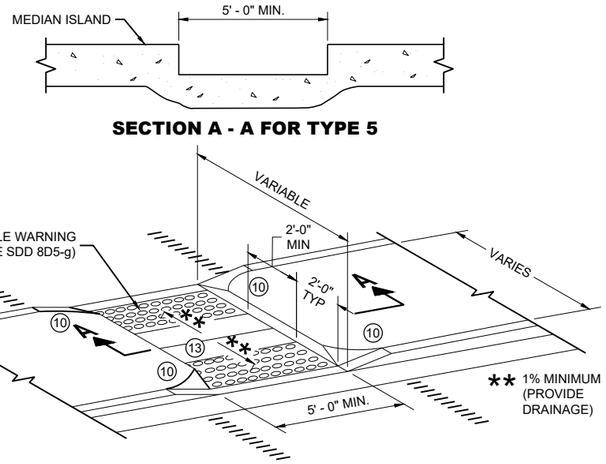
6

SDD 08D05-21d



CURB RAMP TYPE 8

DETECTABLE WARNINGS FOR SIDEWALKS OR SHARED USE PATHS AT RAILROAD CROSSINGS



SECTION A - A FOR TYPE 5

CURB RAMP TYPE 5

MEDIAN ISLAND NON-ELEVATED PEDESTRIAN CROSSING

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

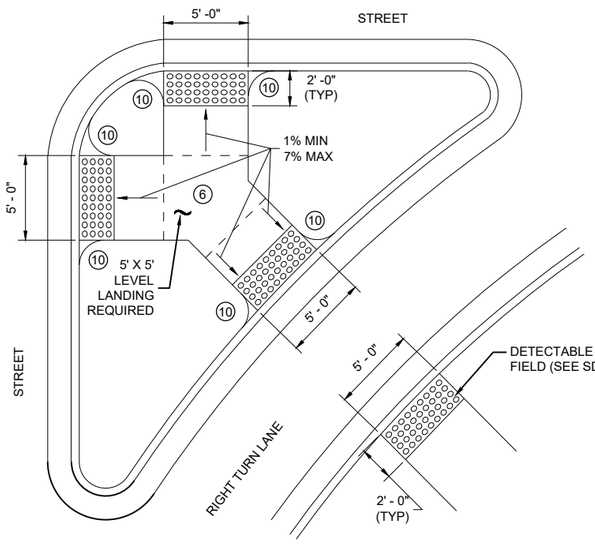
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ±0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK/PATH. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD TRACK IS 15 FEET MAXIMUM AND 12 FEET MINIMUM, 15 FEET TYPICAL FROM THE NEAREST RAIL.

(13) DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STEET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2 FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT BE ACHIEVED.

LEGEND

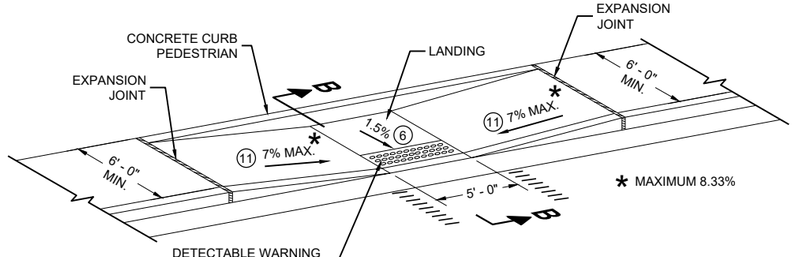
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)



CURB RAMP TYPE 6

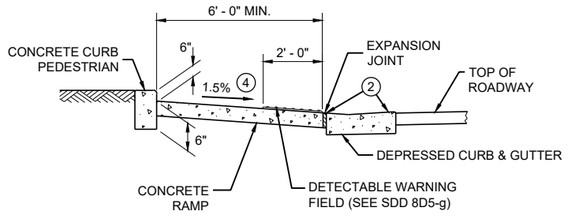
DETECTABLE WARNING AT ISLANDS

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS

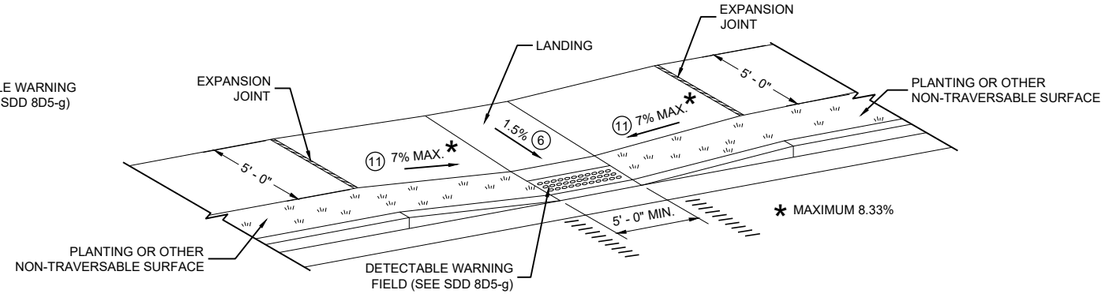


CURB RAMP TYPE 7A

FOR INTERSECTIONS AND MID BLOCK CROSSINGS



SECTION B - B FOR TYPE 7A



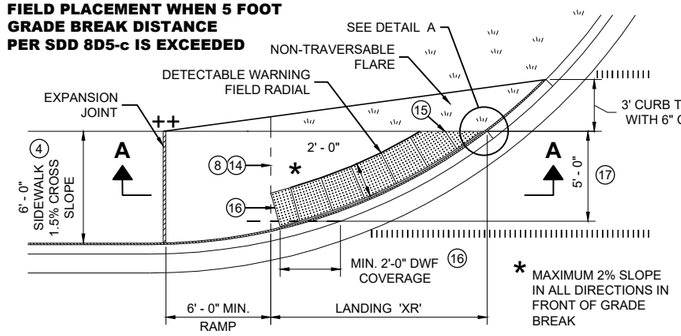
CURB RAMP TYPE 7B

FOR INTERSECTIONS AND MID BLOCK CROSSINGS

CURB RAMPS TYPE 5, 6, 7A, 7B & 8

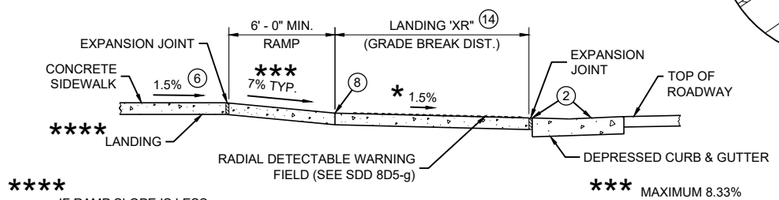
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-c IS EXCEEDED



PLAN VIEW

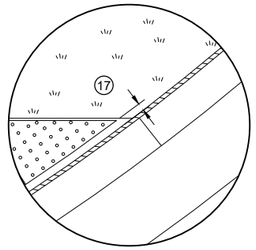
CURB RAMP TYPE 4A1
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION A - A FOR TYPE 4A1



DETAIL A

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

APPLY RADIAL DETECTABLE WARNING PLACEMENT SIMILARLY FOR TYPE 4A AND 4A1 CURB RAMPS AND SIMILARLY FOR TYPE 4B AND 4B1 CURB RAMPS. TYPE 4A AND 4B CURB RAMPS ARE NOT SHOWN.

REFER TO SDD 8D5-g FOR ADDITIONAL RADIAL PLATE REQUIREMENTS.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AD ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET BY 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

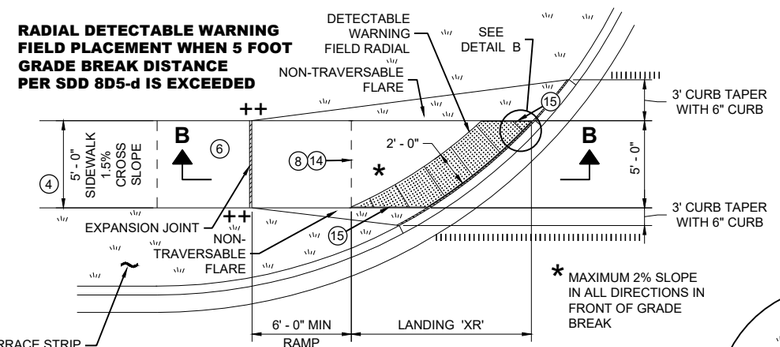
(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION "XR") REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

(16) USE 1' X 2" RECTANGULAR END PLATE AT END OF TYPE 4A1 RAMP AND PROVIDE MINIMUM 2' - 0" DETECTABLE WARNING FIELD COVERAGE (IN DIRECTION OF PEDESTRIAN TRAVEL) ALONG THE ENTIRE CURB RAMP WIDTH.

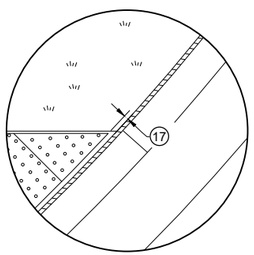
(17) A MAXIMUM 3 INCH CONCRETE BORDER WIDTH IS ALLOWABLE IN FRONT OF RADIAL DETECTABLE WARNING FIELD FOR CONSTRUCTABILITY PURPOSES. CONCRETE BORDER WIDTH MAY VARY UP TO 1 INCH.

RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-d IS EXCEEDED

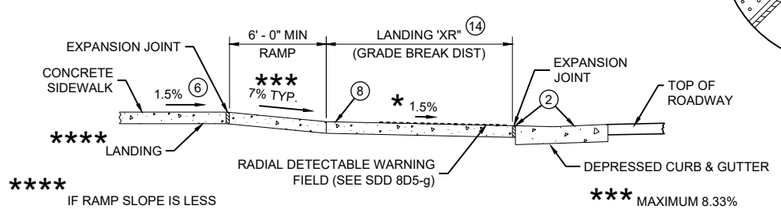


PLAN VIEW

CURB RAMP TYPE 4B1
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



DETAIL B

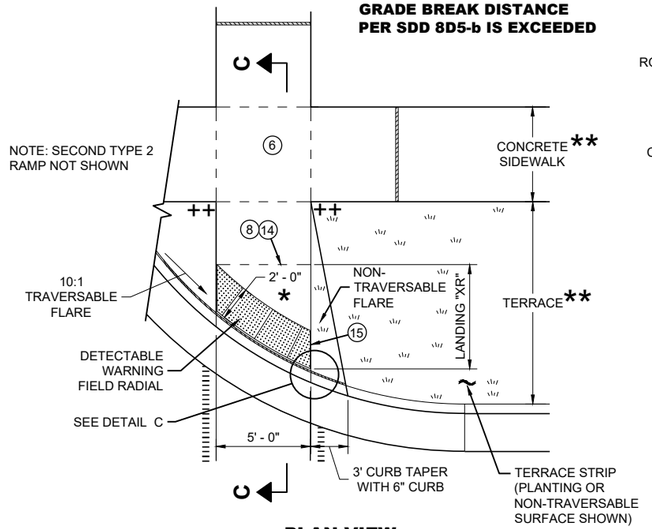


**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

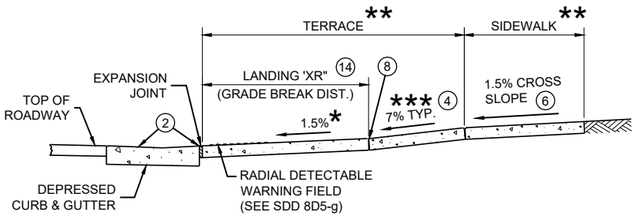
SECTION B - B FOR TYPE 4B1

RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-b IS EXCEEDED

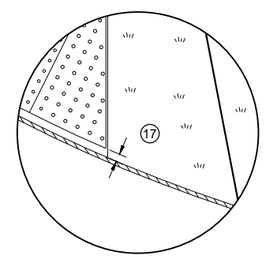


PLAN VIEW

CURB RAMP TYPE 2
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)
(ON LINE WITH SIDEWALK)



SECTION C - C FOR TYPE 2



DETAIL C

* MAXIMUM 2% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS

*** MAXIMUM 8.33%

++ CONSTRUCT 6" WEDGE TO AVOID CONCRETE BREAKAGE

CURB RAMPS
RADIAL DETECTABLE WARNING

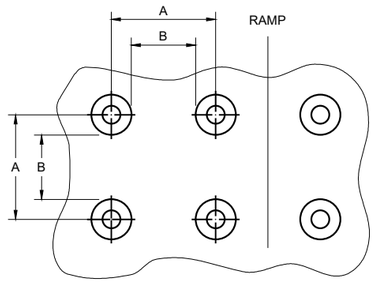
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

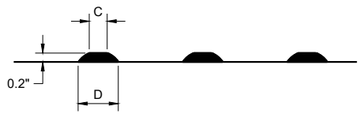
SDD 08D05-21f

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

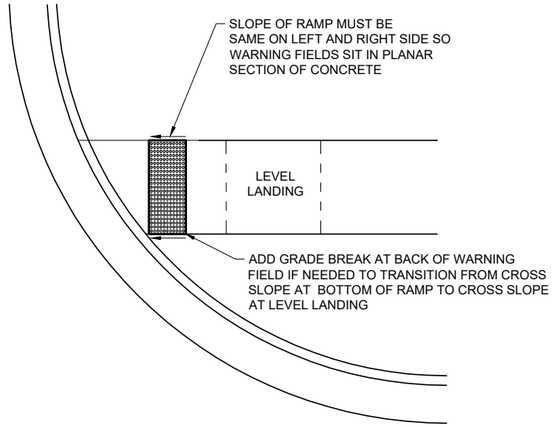
* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.



PLAN VIEW



ELEVATION VIEW



DETECTABLE WARNING FIELD
PLANAR INSTALLATION

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AT A CURB RAMP SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

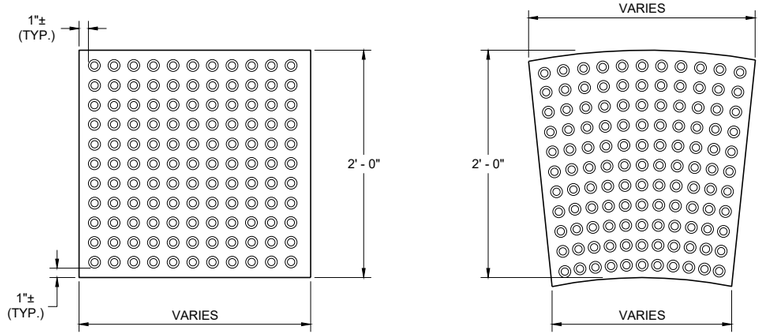
FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGE PLATES IN COMBINATION WITH SQUARE PLATES ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

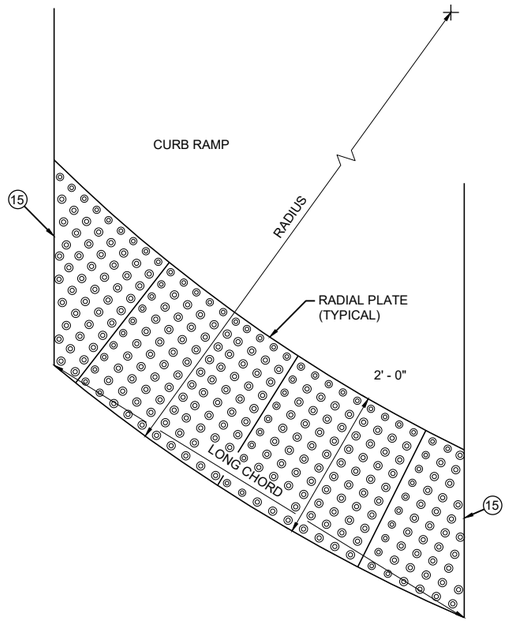
TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



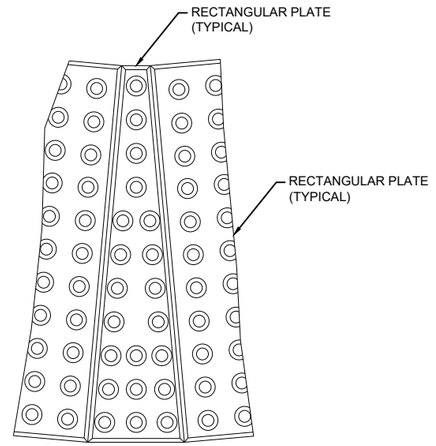
RECTANGULAR PLATES

RADIAL PLATES

PLAN VIEW
DETECTABLE WARNING FIELDS (TYPICAL)



PLAN VIEW
RADIAL DETECTABLE WARNING FIELD ATTRIBUTES



PLAN VIEW
RADIAL WEDGE PLATE CONNECTION DETAIL

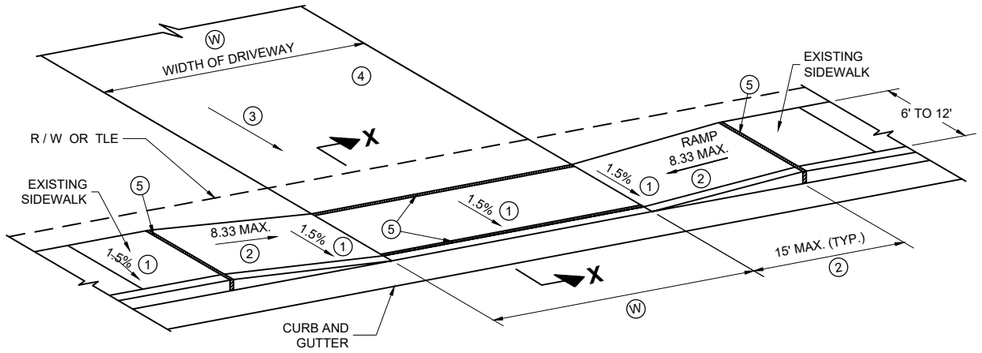
CURB RAMPS
RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

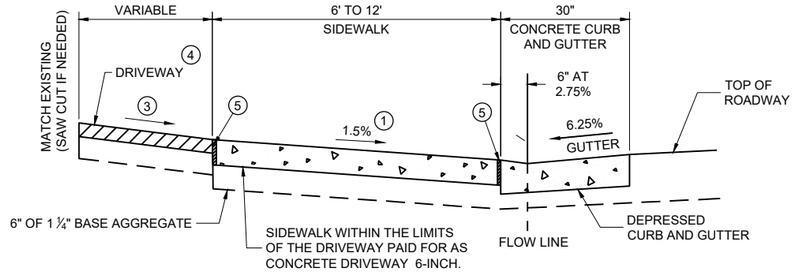
APPROVED
July 2023 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

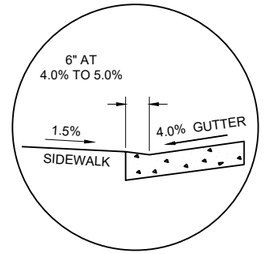
6
SDD 08D05-21g



TYPE X
SIDEWALK ABUTS CURB AND GUTTER
TERRACE VARIES 0 TO 3 FEET



SECTION X - X



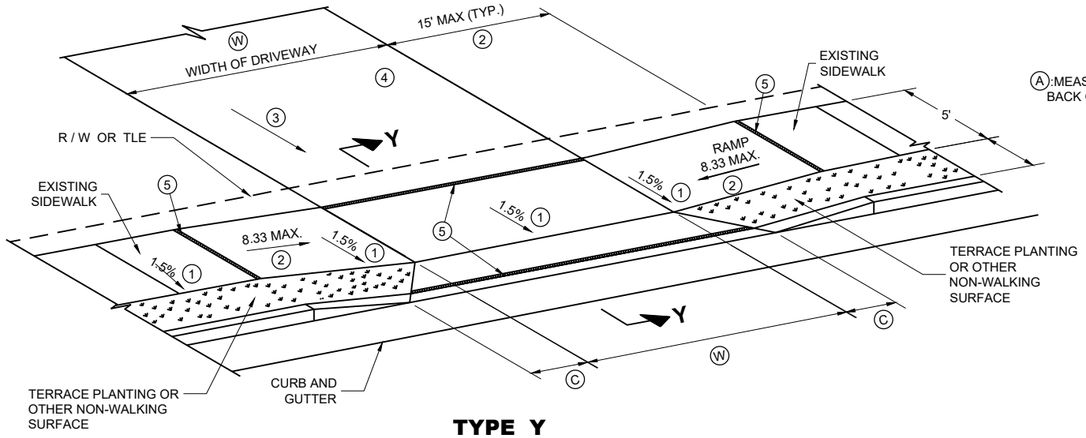
SECTION X - X
4% GUTTER SLOPE

Ⓦ: 12' MIN. - 24' MAX. RESIDENTIAL AND NON-COMMERCIAL (PE & FE)

16' MIN. - 35' MAX. COMMERCIAL (CE)

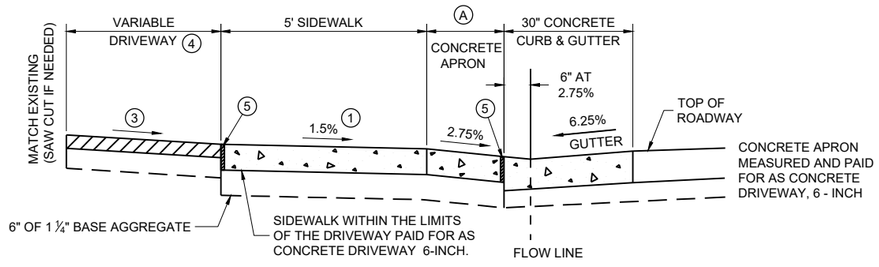
TABLE Y

Ⓐ FEET	Ⓒ FEET
3.5'	2.0'
4.5'	3.0'
5.5'	3.5'

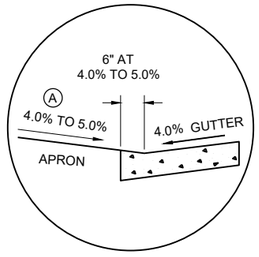


TYPE Y
SIDEWALK WITH NARROWER TERRACE
TERRACE VARIES 4 TO 6 FEET

Ⓐ:MEASURE FROM BACK OF CURB



NOTE: SIDEWALK MY BE DEPRESSED IN DRIVEWAY AREAS



SECTION Y - Y
4% GUTTER SLOPE

SECTION Y - Y
DRIVEWAY DETAIL WITH CONCRETE CURB AND GUTTER
(URBAN AND SUBURBAN)

GENERAL NOTES

PROVIDE CONSTRUCTION JOINTS ALONG THE CENTER OF THE CONCRETE FOR DRIVEWAYS UNDER 20 FEET IN WIDTH AND AT THE THIRD POINTS OVER 20 FEET IN WIDTH.

Ⓦ IS SHOWN ON PLAN AND PROFILE SHEETS.

OFFSETS, ELEVATIONS, AND PERCENT GRADE ARE SHOWN ON THE CROSS SECTIONS.

① CONSTRUCTION TOLERANCE OF 0.5%± FOR SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

② THE SIDEWALK RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAXIMUM LENGTH, THE RUNNING SLOPE OF THE SIDEWALK SHALL BE AS FLAT AS FEASIBLE AND NOT EXCEED THE LONGITUDINAL GRADE OF THE ROADWAY. SLOPE SIDEWALK RAMP TOWARD APRON AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

③ DRIVEWAY SLOPES: DESIRABLE MAXIMUM
- 10.5% UP AWAY FROM SIDEWALK (SAG)
- 8.5% DOWN AWAY FROM SIDEWALK (CREST)
- ABSOLUTE MAXIMUM 15% FOR BOTH CREST AND SAG

④ DRIVEWAY TYPES
- 6-INCH CONCRETE DRIVEWAY PAVEMENT OVER 6-INCH BASE AGGREGATE
- 2-INCH TO 3-INCH ASPHALTIC SURFACE OVER 6-INCH BASE AGGREGATE
- 6-INCH BASE AGGREGATE (MAY BE INCREASED FOR CLAY SUBGRADES.)

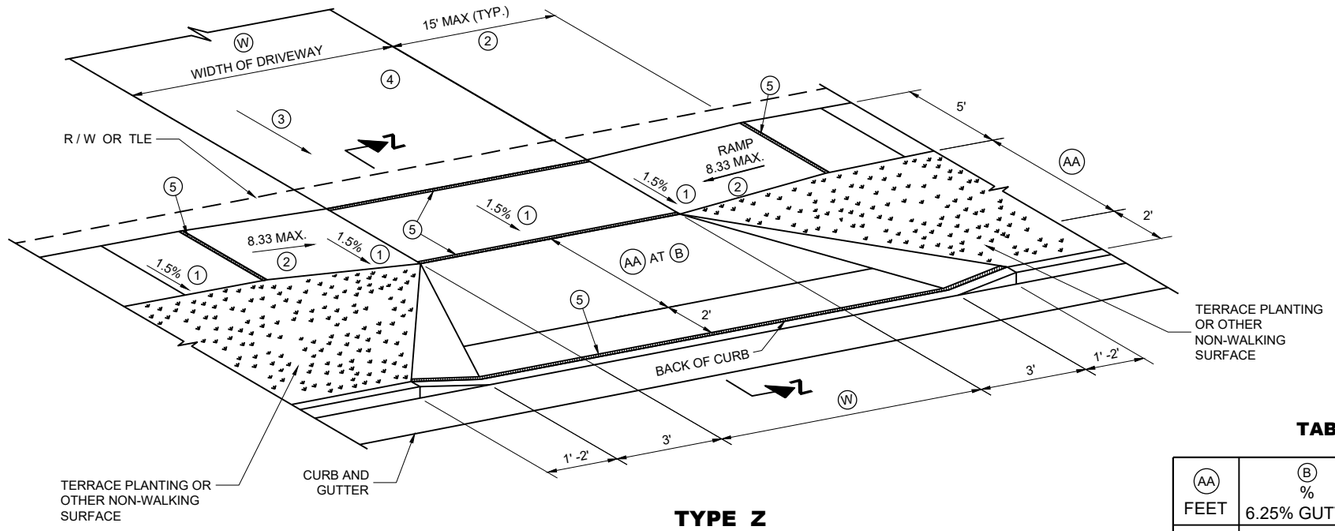
⑤ ½" EXPANSION JOINT FILLER

DRIVEWAY AND SIDEWALK RAMPS TYPES X AND Y

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2023 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA



TYPE Z

SIDEWALK WITH WIDER TERRACE
TERRACE VARIES 7 TO 12 FEET

GENERAL NOTES

PROVIDE CONSTRUCTION JOINTS ALONG THE CENTER OF THE CONCRETE FOR DRIVEWAYS UNDER 20 FEET IN WIDTH AND AT THE THIRD POINTS OVER 20 FEET IN WIDTH.

(W) IS SHOWN ON PLAN AND PROFILE SHEETS.

OFFSETS, ELEVATIONS, AND PERCENT GRADE ARE SHOWN ON THE CROSS SECTIONS.

(1) CONSTRUCTION TOLERANCE OF 0.5%± FOR SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

(2) THE SIDEWALK RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAXIMUM LENGTH, THE RUNNING SLOPE OF THE SIDEWALK SHALL BE AS FLAT AS FEASIBLE AND NOT EXCEED THE LONGITUDINAL GRADE OF THE ROADWAY.

(3) DRIVEWAY SLOPES: DESIRABLE MAXIMUM
- 10.5% UP AWAY FROM SIDEWALK (SAG)
- 8.5% DOWN AWAY FROM SIDEWALK (CREST)
- ABSOLUTE MAXIMUM 15% FOR BOTH CREST AND SAG

(4) DRIVEWAY TYPES
- 6-INCH CONCRETE DRIVEWAY PAVEMENT OVER 6-INCH BASE AGGREGATE
- 2-INCH TO 3-INCH ASPHALTIC SURFACE OVER 6-INCH BASE AGGREGATE
- 6-INCH BASE AGGREGATE (MAY BE INCREASED FOR CLAY SUBGRADES.)

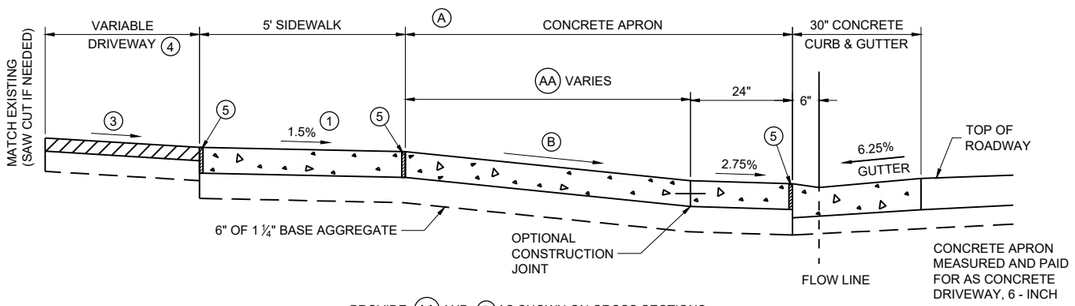
(5) ½" EXPANSION JOINT FILLER.

TABLE Z

(AA) FEET	(B) % 6.25% GUTTER	(B) % 4% GUTTER
4.5'	11.5%	9% TO 11.5%
5.5'	9% TO 11.5%	8% TO 11.5%
6.5'	8% TO 11.5%	6% TO 11.5%
7.5'	7% TO 11.5%	6% TO 11.5%
8.5'	6% TO 11.5%	5% TO 11.5%
9.5'	5% TO 11.5%	4% TO 11.5%

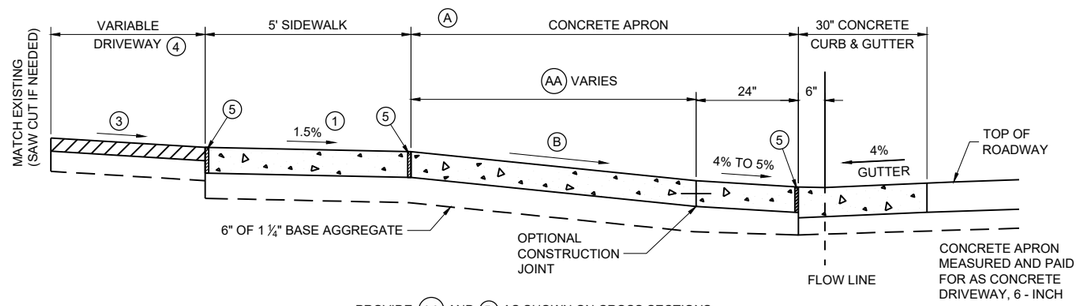
(W): 12' MIN. - 24' MAX. RESIDENTIAL AND NON-COMMERCIAL (PE & FE)

16' MIN. - 35' MAX. COMMERCIAL (CE)



PROVIDE (AA) AND (B) AS SHOWN ON CROSS SECTIONS.

6.25% GUTTER SLOPE



PROVIDE (AA) AND (B) AS SHOWN ON CROSS SECTIONS.

4% GUTTER SLOPE

NOTE: SIDEWALK MY BE DEPRESSED IN DRIVEWAY AREAS FOR (B) VALUES NOT SHOWN IN TABLE Z.

SIDEWALK WITHIN THE LIMITS OF THE DRIVEWAY PAID FOR AS CONCRETE DRIVEWAY 6-INCH.

SECTION Z - Z

DRIVEWAY DETAIL WITH CONCRETE CURB AND GUTTER

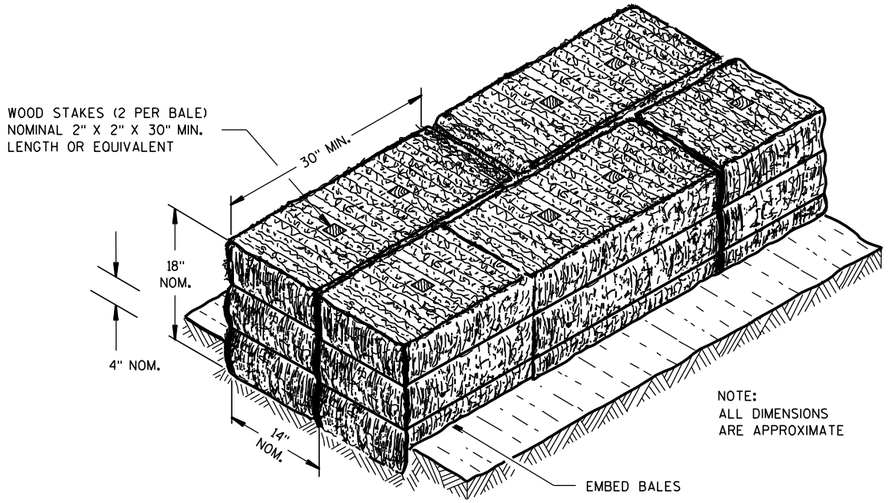
(URBAN AND SUBURBAN)

DRIVEWAY AND SIDEWALK RAMPS TYPE Z

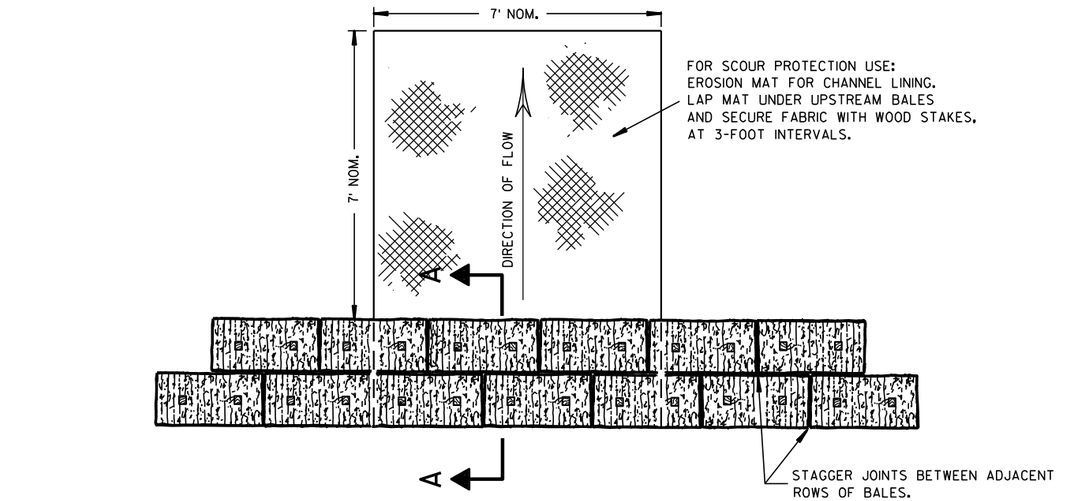
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2023 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

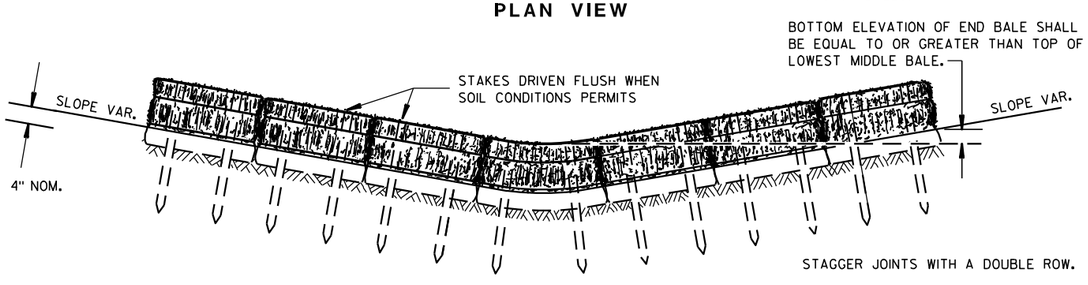
FHWA



SECTION A-A



PLAN VIEW



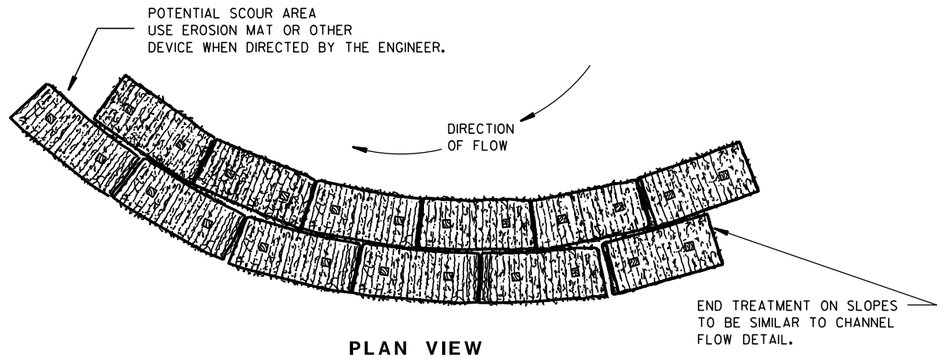
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

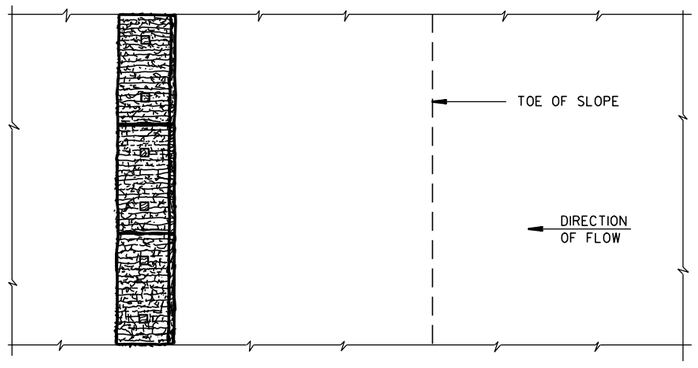
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

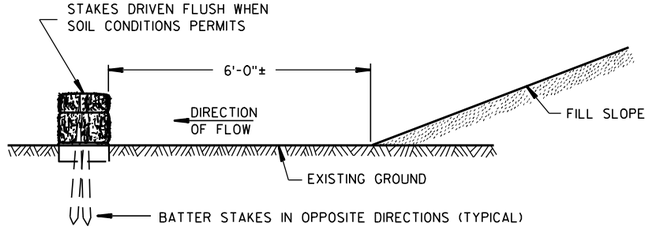


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

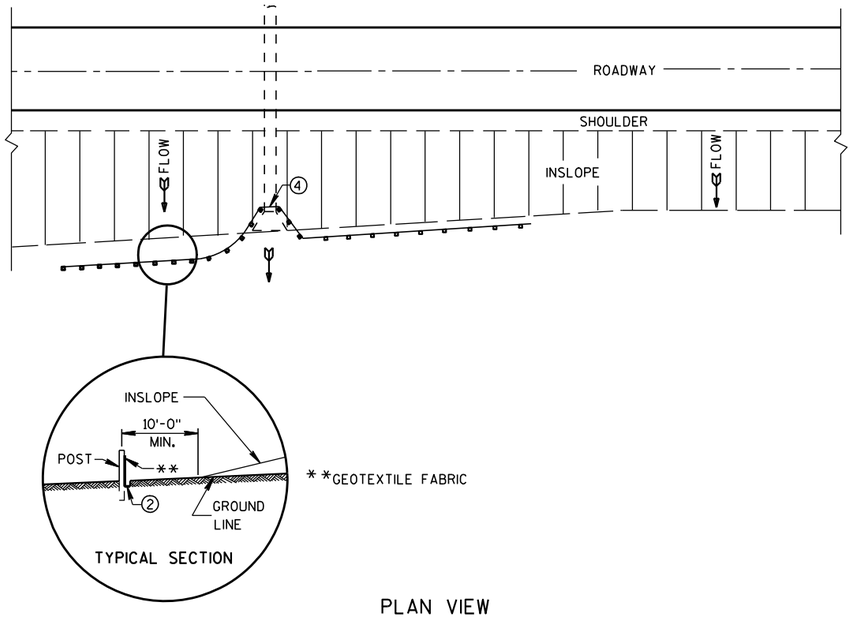
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

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

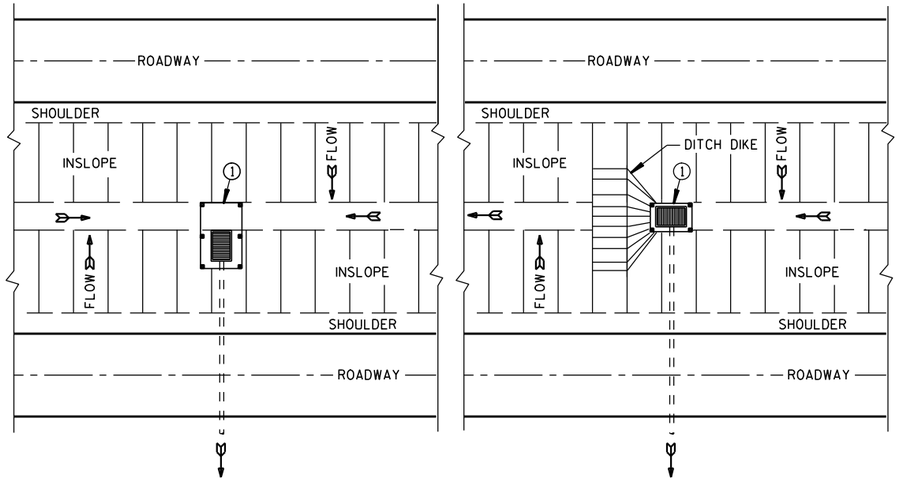
FHWA

6
S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

GENERAL NOTES

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

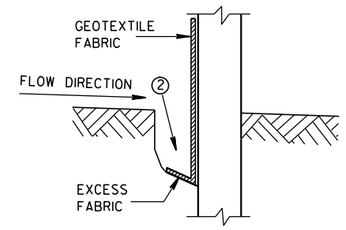
① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.

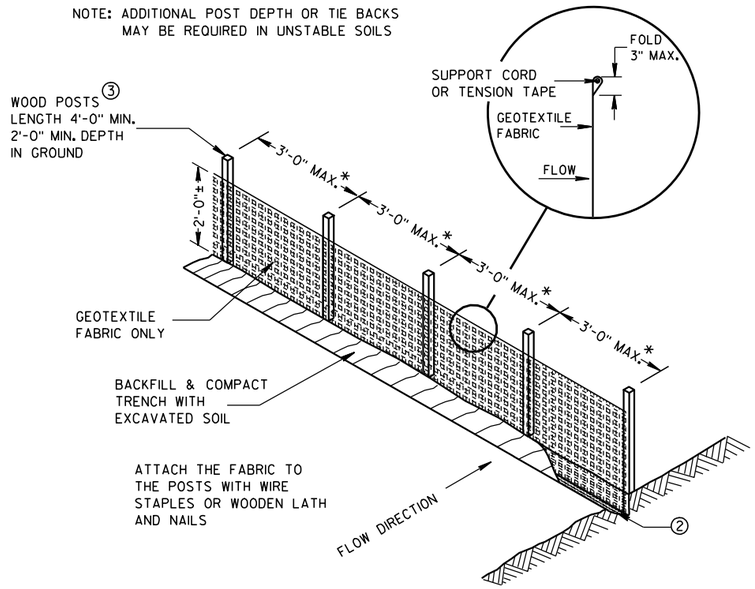
③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.

④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.

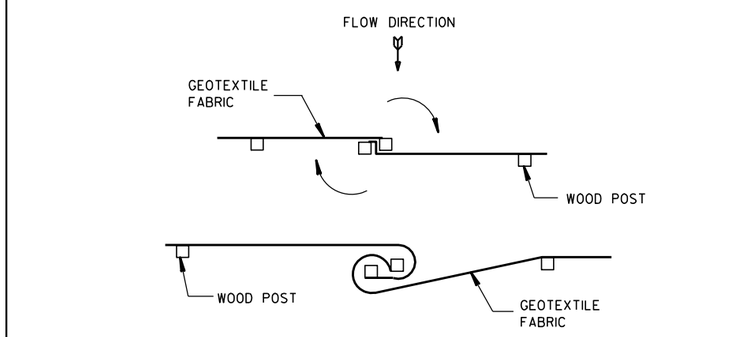
⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



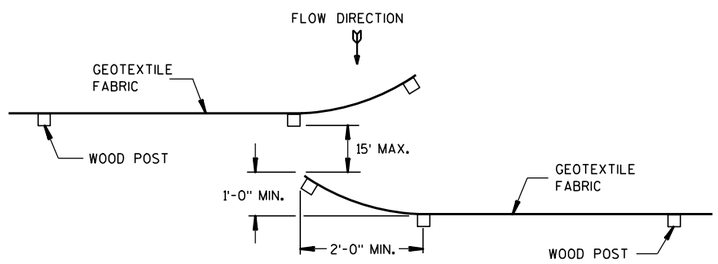
TRENCH DETAIL



SILT FENCE

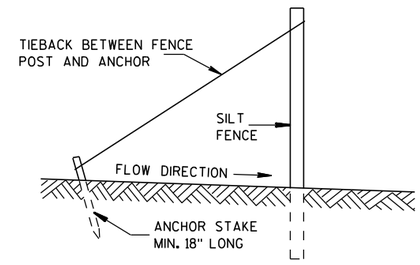


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE ⑤



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

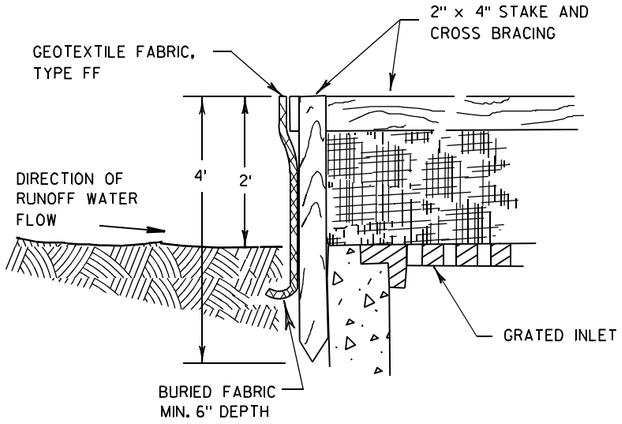
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

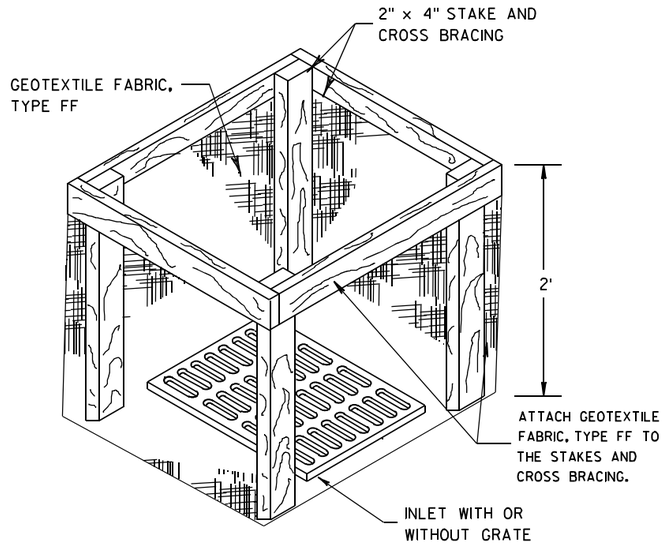
6

S.D.D. 8 E 9-6

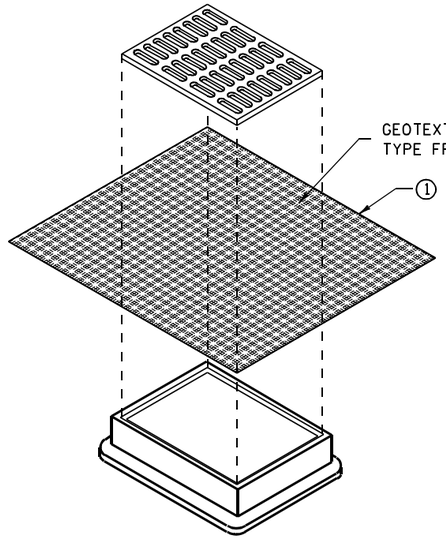
6

S.D.D. 8 E 9-6



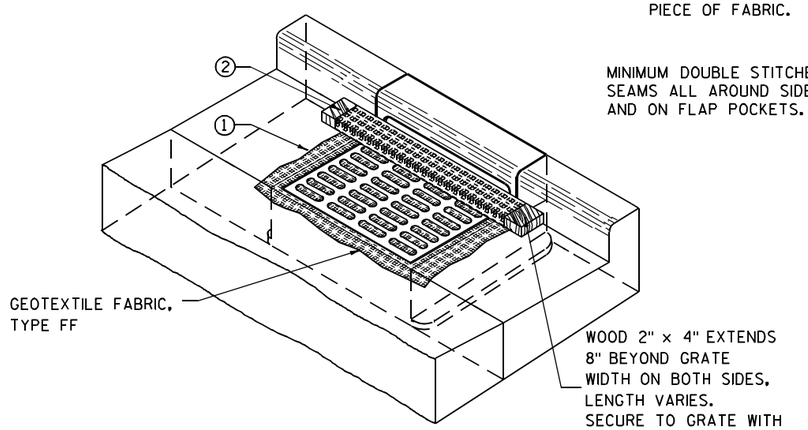


INLET PROTECTION, TYPE A

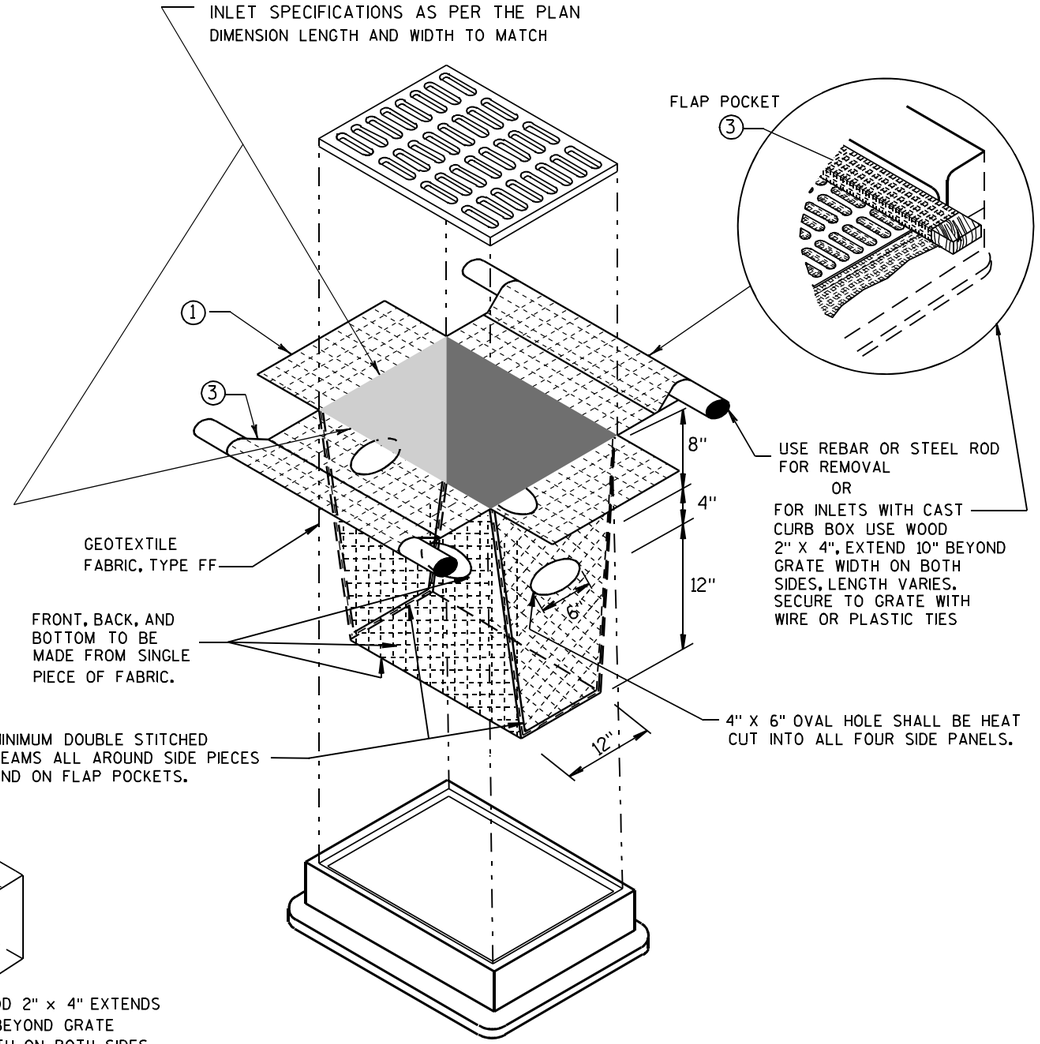


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

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



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

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

GENERAL NOTES

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

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

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

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

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

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

INSTALLATION NOTES

TYPE B & C

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

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

TYPE D

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

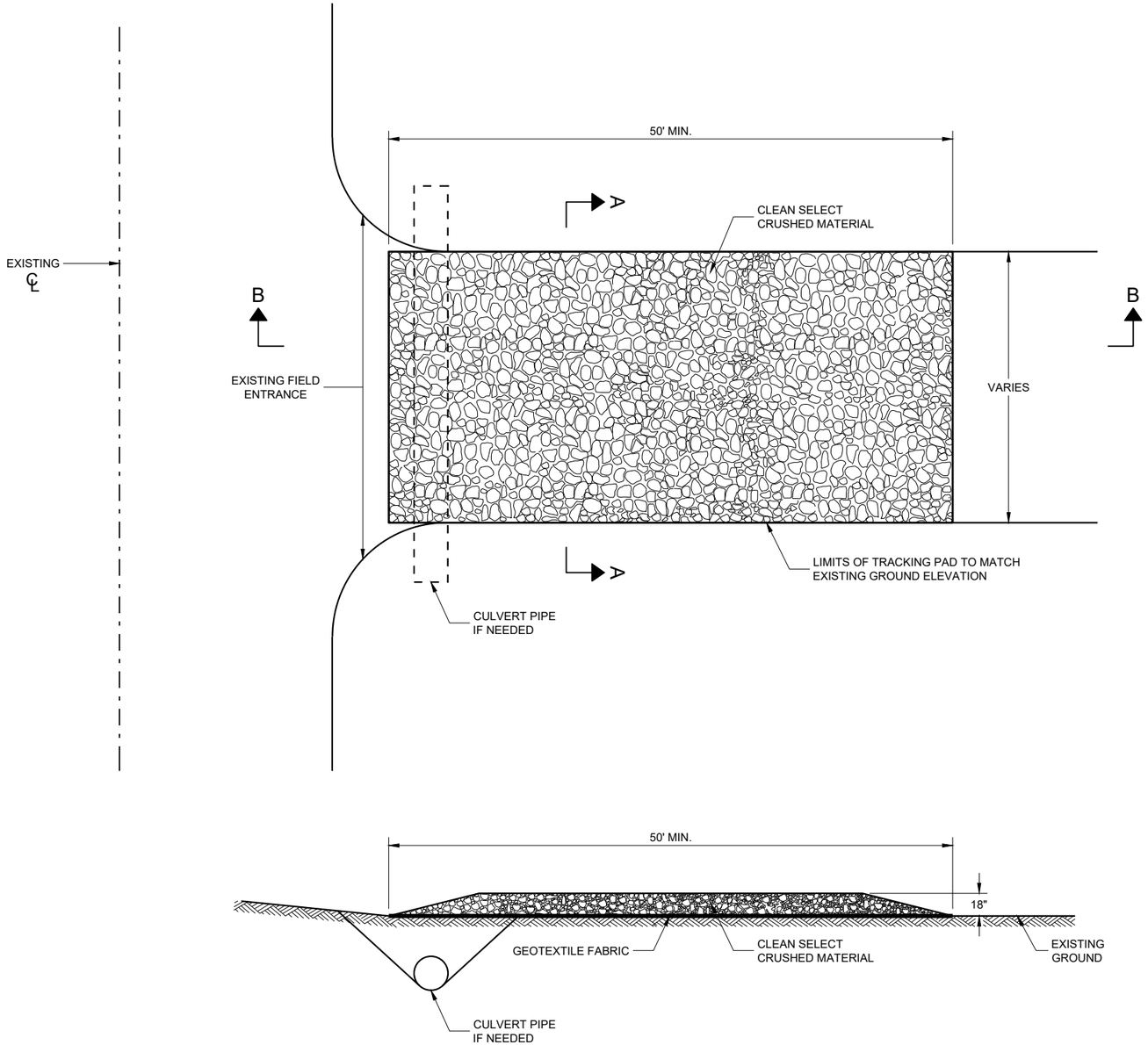
TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

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

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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



SECTION B - B

GENERAL NOTES

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

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

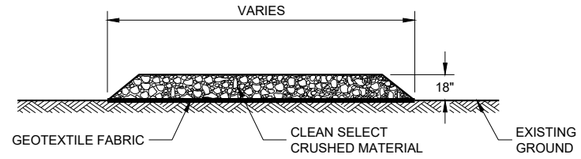
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A - A

6

SDD 08E14 - 01

TRACKING PAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/24/2011
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVE ENGINEER

FHWA

6

SDD 08E14 - 01

METAL APRON ENDWALLS

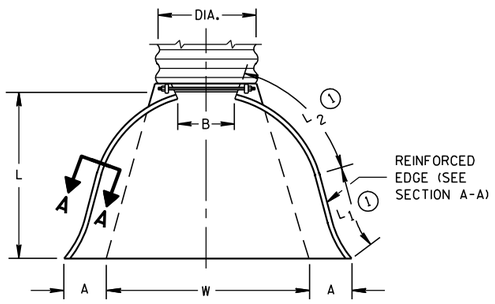
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

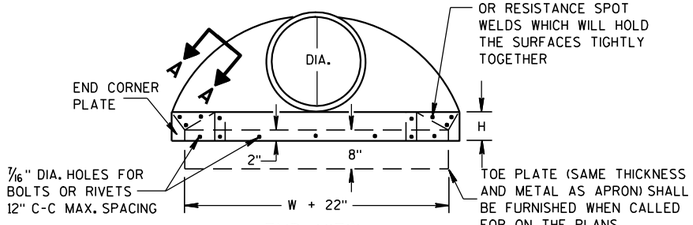
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

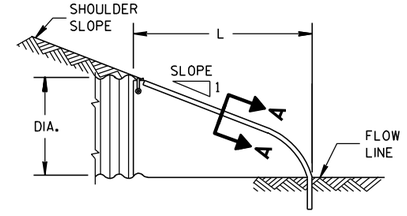
*MINIMUM
**MAXIMUM



PLAN VIEW

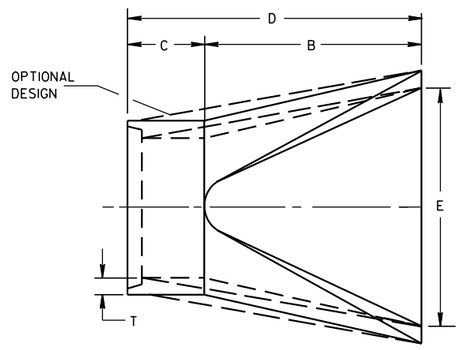


END VIEW

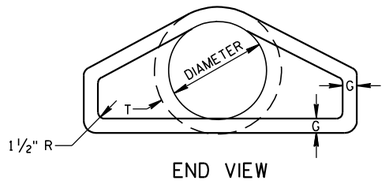


SIDE ELEVATION

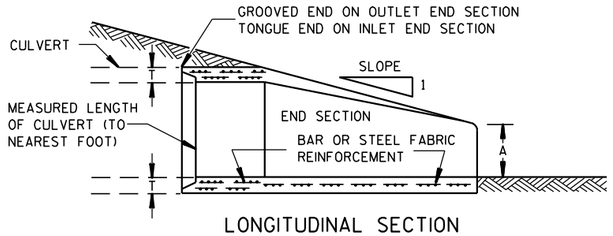
METAL ENDWALLS



PLAN

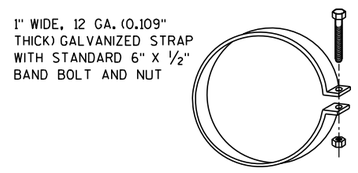


END VIEW



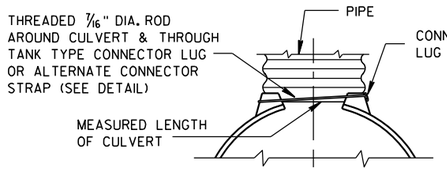
LONGITUDINAL SECTION

CONCRETE ENDWALLS

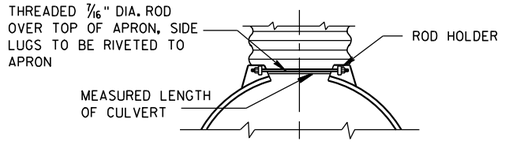


ALTERNATE FOR TYPE 1 CONNECTION

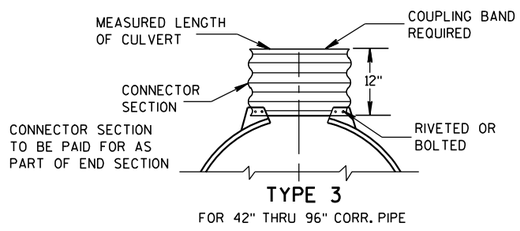
END SECTION CONNECTOR STRAP



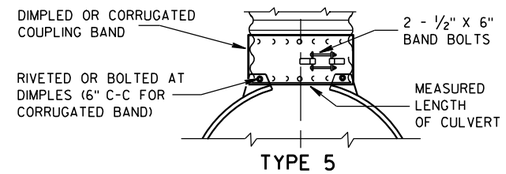
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

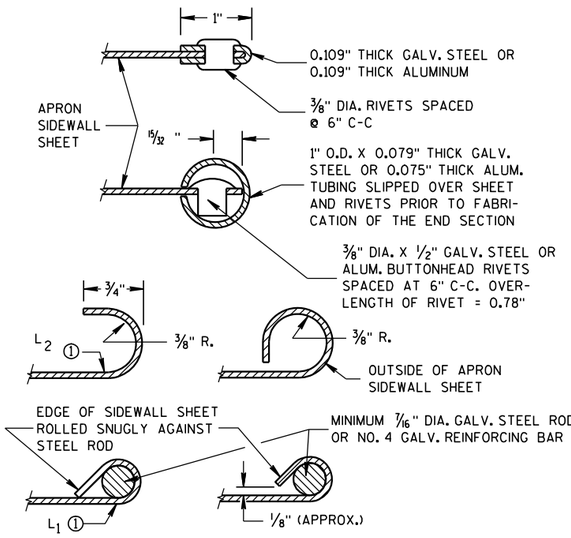
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

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

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

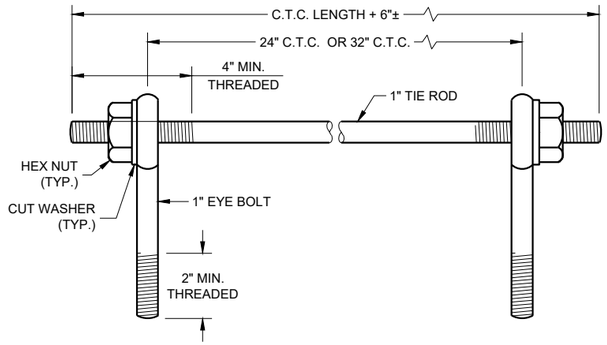
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

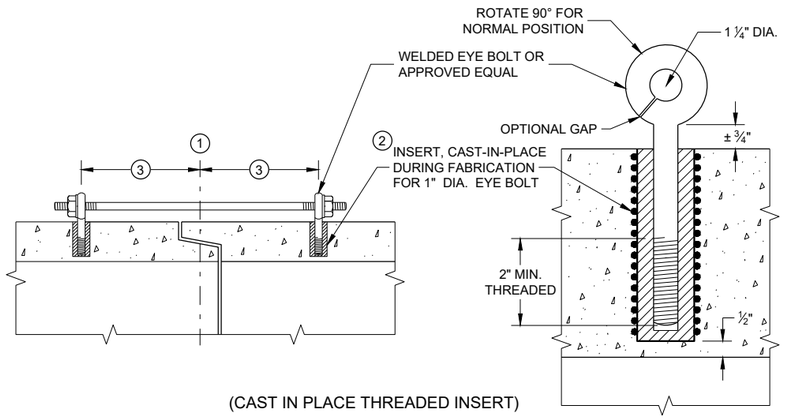
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

6
S.D.D. 8 F 1-11



EYE BOLTS AND TIE ROD



(CAST IN PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

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

GENERAL NOTES

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

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

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

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

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

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

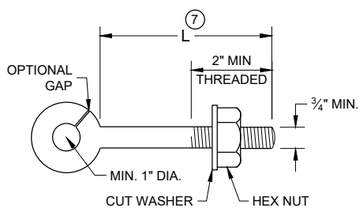
(3) HOLES SHALL BE CAST-IN-PLACE OR DRILLED PER THE APPLICABLE DETAIL, AND EQUAL DISTANCE FROM THE CENTERLINE OF THE JOINT.

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

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

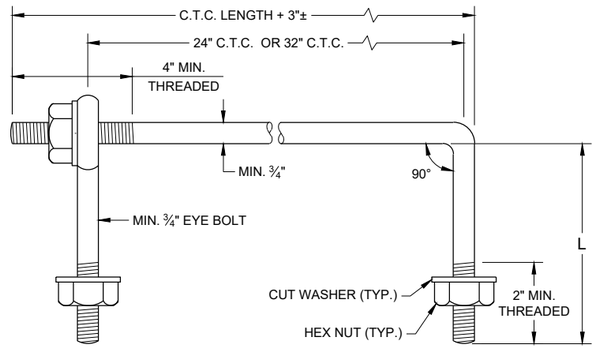
(6) LENGTH ADEQUATE TO EXTEND TO WITHIN ½ INCH OF THE INNER SURFACE OF THE PIPE.

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

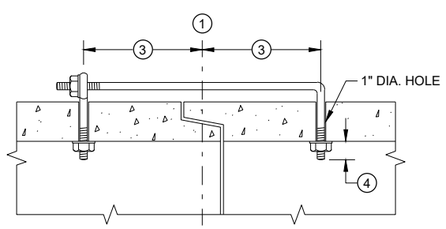


EYE BOLT (7)

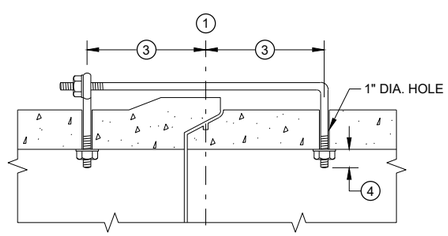
NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" OR 38" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD



(TONGUE AND GROOVE PIPE)



(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

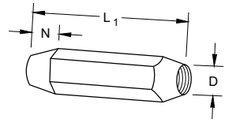
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

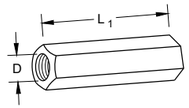
ADJUSTABLE TIE ROD TABLE

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

DIMENSIONS SHOWN ARE IN INCHES



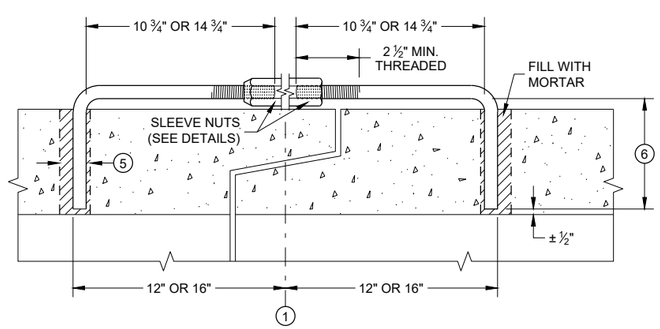
TAPERED



PLAIN

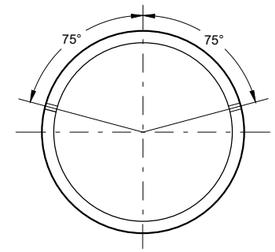
RIGHT AND LEFT THREADS

SLEEVE NUTS



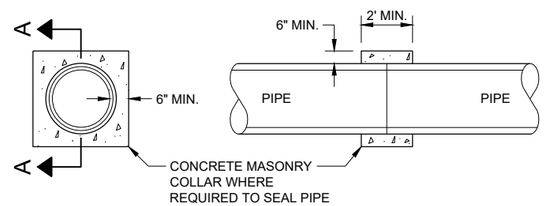
LONGITUDINAL SECTION

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



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

TRANSVERSE SECTION



SECTION A - A

CONCRETE COLLAR DETAIL

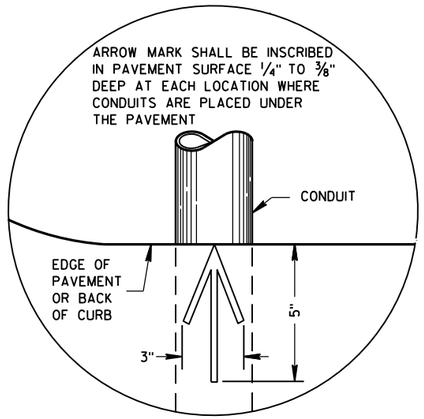
JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

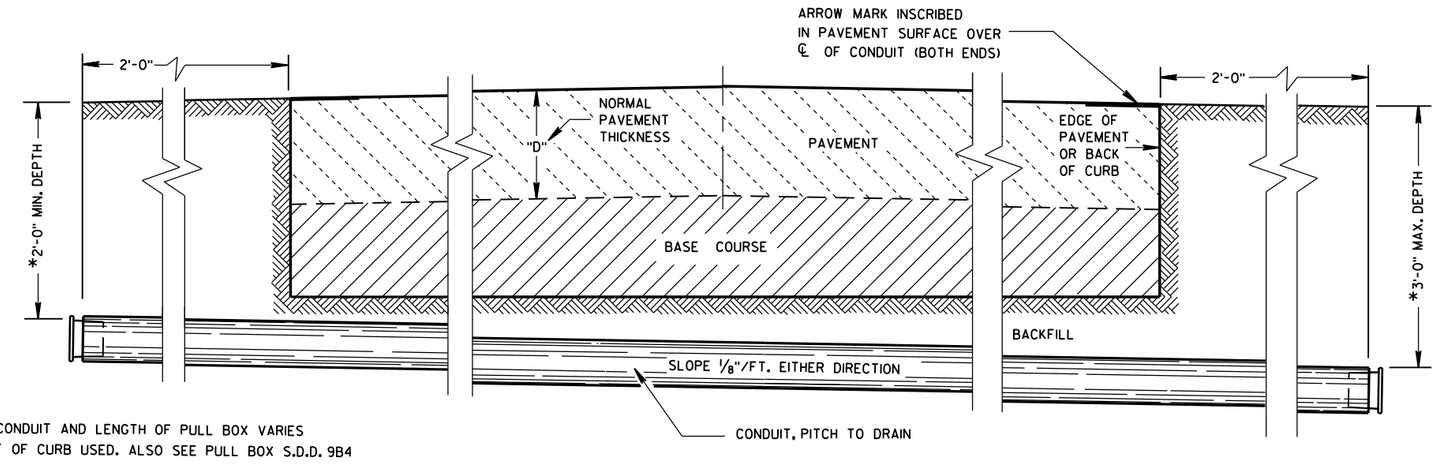
SDD 08F04 - 08

SDD 08F04 - 08



PLAN VIEW

ARROW MARK



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

GENERAL NOTES

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

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.

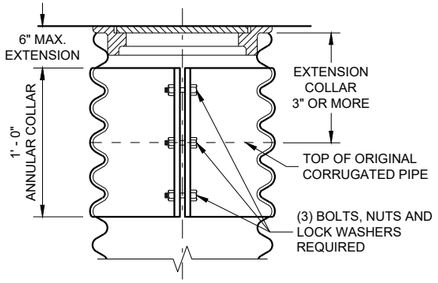
CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

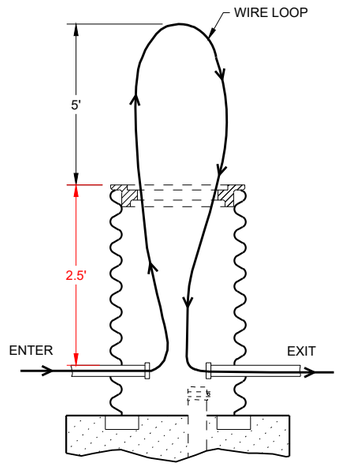
APPROVED
March, 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

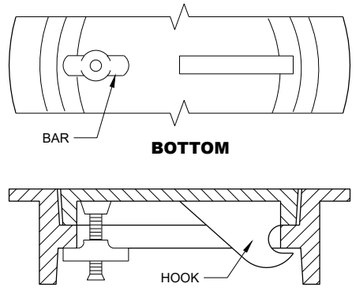
S.D.D. 9 B 2-10



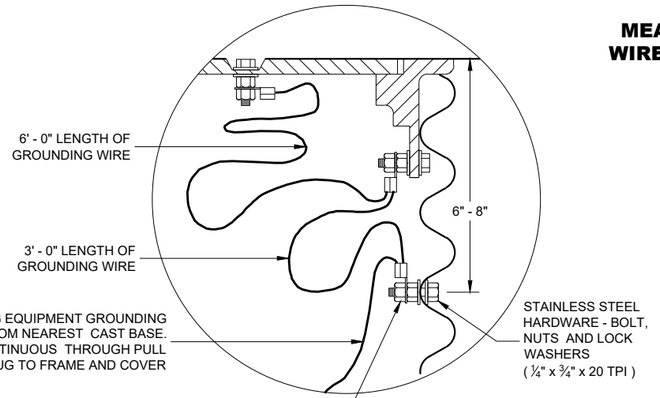
CORRUGATED PIPE EXTENDER



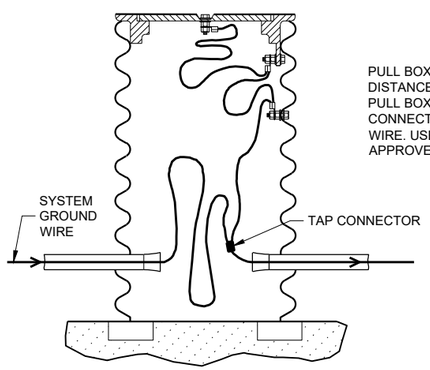
MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX



ALTERNATE COVER (LOCKING)
TIGHTENING BAR TYPE

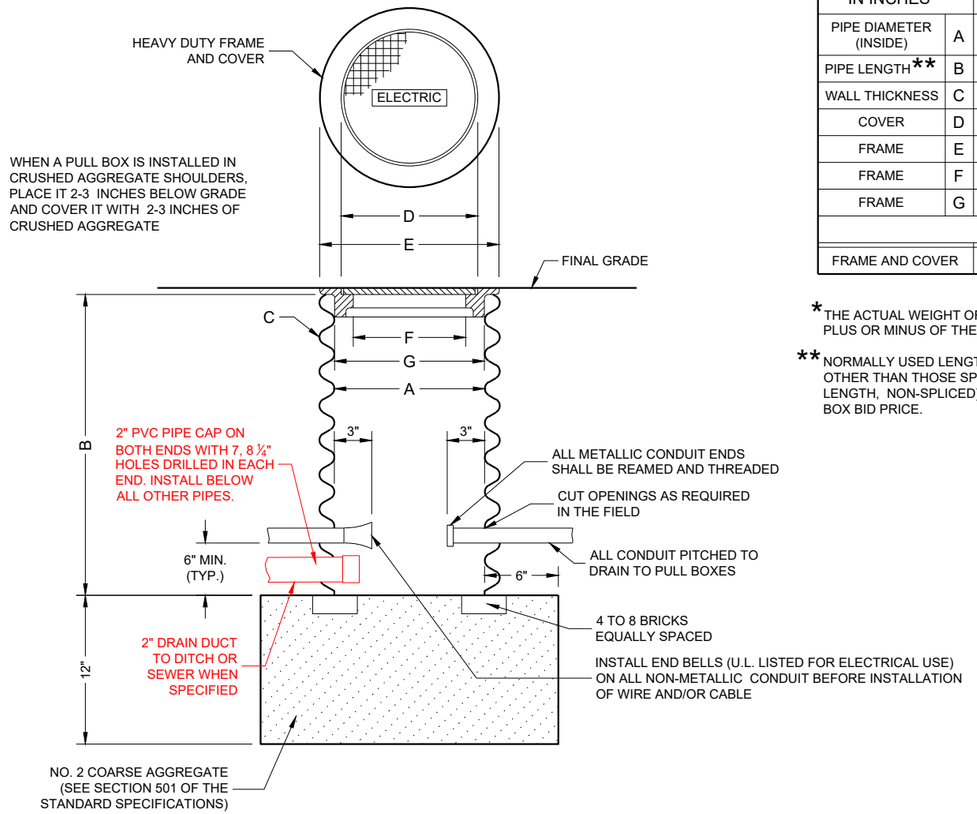


EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



PULL BOX TO NEAREST BASE DISTANCE MORE THAN 20 FEET. PULL BOX GROUND WIRE SHALL CONNECT AT SYSTEM GROUNDING WIRE. USE DEPARTMENT APPROVED TAP CONNECTOR.

EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



PULL BOX

GENERAL NOTES

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

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN ¼".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH**	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 ¼	10 ¼	10 ¼	16 ¼	16 ¼	16 ¼	22 ¼	22 ¼	22 ¼
FRAME	E	14 ½	14 ½	14 ½	20 ½	20 ½	20 ½	26 ½	26 ½	26 ½
FRAME	F	8 ½	8 ½	8 ½	14 ½	14 ½	14 ½	20 ½	20 ½	20 ½
FRAME	G	11 ½	11 ½	11 ½	17 ½	17 ½	17 ½	23 ½	23 ½	23 ½
WEIGHT IN POUNDS*										
FRAME AND COVER		60	60	60	110	110	110	155	155	155

*THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

**NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.

PULL BOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 141

FHWA

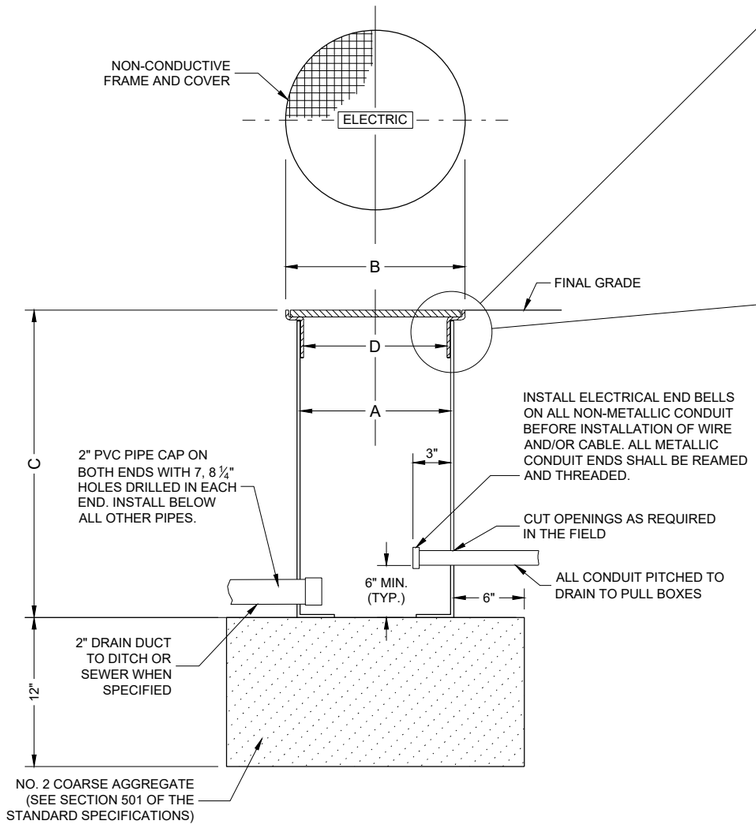
6
SDD 09B04-12

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

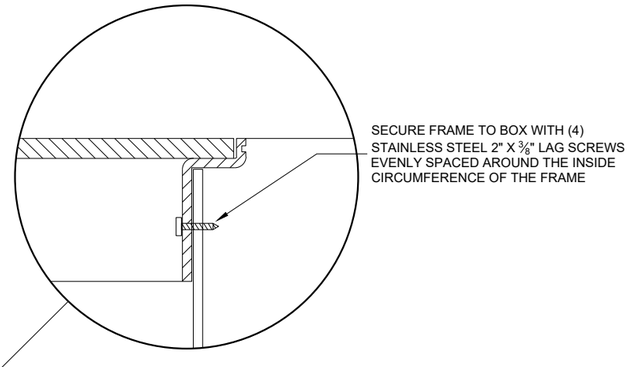
DIMENSION IN INCHES		NON- CONDUCTIVE PULL BOX	
BOX DIAMETER ** (INSIDE)	A	24	24
BOX OVERALL OUTSIDE DIAMETER	B	27	27
BOX LENGTH	C	36	42
FRAME OPENING	D	22 ½	22 ½
WEIGHT IN POUNDS *			
COVER		50	50
BOX ONLY		75	85

* THE ACTUAL WEIGHT OF THE COVER OR BOX ONLY MAY VARY NOT TO EXCEED 100 LBS INDIVIDUALLY.

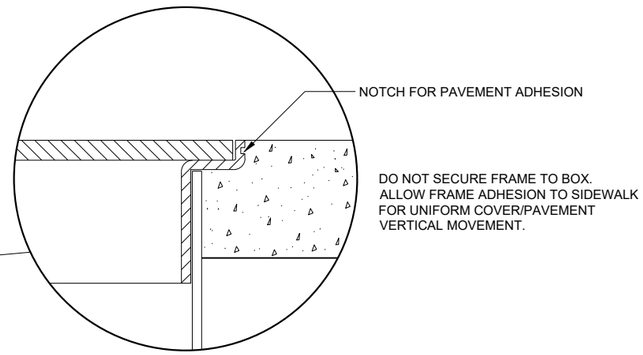
** DIAMETER VARIES FROM TOP TO BOTTOM WITH THE DIAMETER LARGER AT THE BOTTOM TO PREVENT FROST HEAVE.



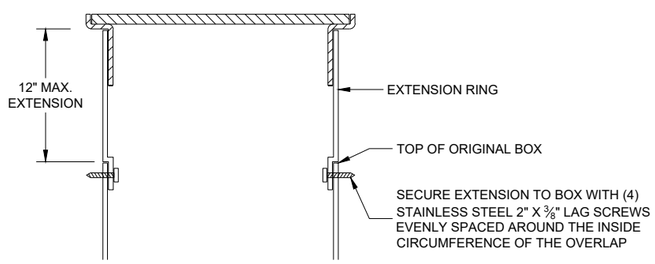
NON-CONDUCTIVE PULL BOX



INSTALLED IN SOD OR CRUSHED AGGREGATE



INSTALLED IN SIDEWALK



BOX EXTENSION

GENERAL NOTES

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

ALL BOXES, FRAMES AND COVERS SHALL BE SUITABLE FOR TIER 15 LOADING AS SPECIFIED IN ANSI/SCTE 77.

PROVIDE AN OPENING FOR TOOL ASSISTED COVER REMOVAL NOT LARGE ENOUGH TO PERMIT PASSAGE OF A SPHERE MORE THAN ½" DIAMETER

ENSURE COVER SURFACE IS SKID RESISTANT WITH A COEFFICIENT OF FRICTION OF AT LEAST 0.5 AND VERTICAL SURFACE DICONTINUITIES LESS THAN ¼".

COVER SHALL BE MAGNETICALLY LOCATABLE.

BOXES AND EXTENSIONS ARE TRIMMABLE FOR CUSTOM LENGTHS. TRIMMED PIECES SHALL MAINTAIN A UNIFORM LENGTH.

ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN ¼".

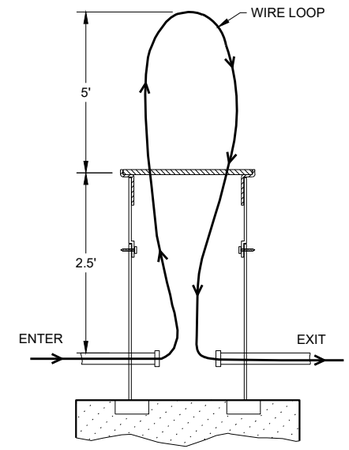
THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

ENTIRE BOX MUST BE CONSTRUCTED OF NON-CONDUCTIVE MATERIALS WITH THE EXCEPTION OF STAINLESS STEEL FASTENERS AND MAGNETIC LOCATABLE DEVICE.

WHEN A PULL BOX IS INSTALLED IN CRUSHED AGGREGATE SHOULDERS, PLACE IT 2-3 INCHES BELOW GRADE AND COVER IT WITH 2-3 INCHES OF CRUSHED AGGREGATE.

LABEL ON COVER SHALL READ "ELECTRIC" FOR SIGNAL AND LIGHTING SYSTEMS, "WISDOT ITS" FOR COMMUNICATIONS AND ITS EQUIPMENT SYSTEMS.



MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX

PULL BOXES NON-CONDUCTIVE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

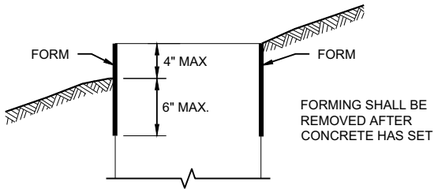
142

FHWA

6

SDD 09B16 - 02

FORM DEPTH SHALL BE NO MORE THAN 6" BELOW GRADE ON THE LOWER SIDE OF BASE



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5 & 6
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

GENERAL NOTES

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

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FRO FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION.

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2, TYPE 5 AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER ALL BASE TYPES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

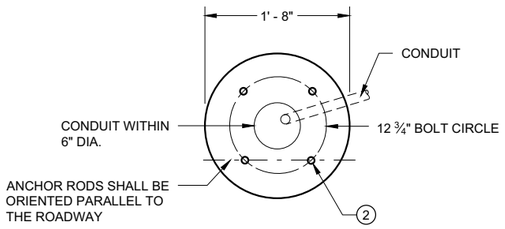
WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

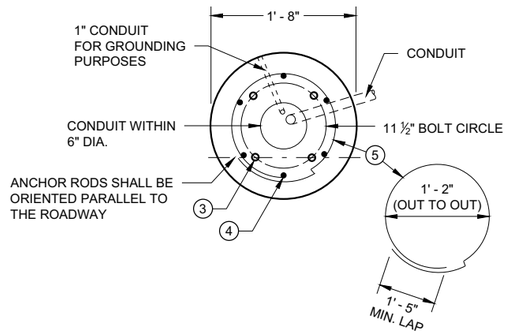
WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

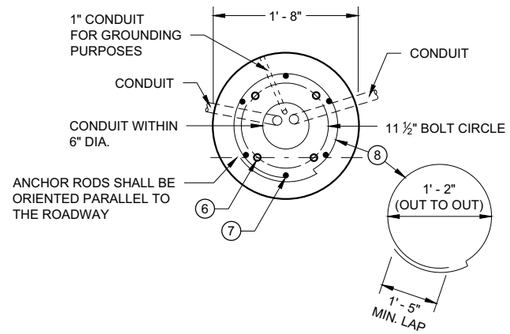
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).







1 THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.

2 (4) 1" DIA. X 3' - 6" ANCHOR RODS.

3 (4) 1" DIA. X 5' - 0" ANCHOR RODS.

4 (6) NO. 6 X 6' - 8" BAR STEEL REINFORCEMENT.

5 (7) NO. 4 X 5' - 1" BAR STEEL REINFORCEMENT @ 1' - 0" C - C.

6 (4) 1" DIA. X 3' - 6" ANCHOR RODS.

7 (6) NO. 4 X 4' - 8" BAR STEEL REINFORCEMENT.

8 (5) NO. 4 X 5' - 1" BAR STELL REINFORCEMENT @ 1' - 0" C -C.

9 EXOTHERMIC CONNECTION TO EUIPMENT GROUNDING CONDUCTOR

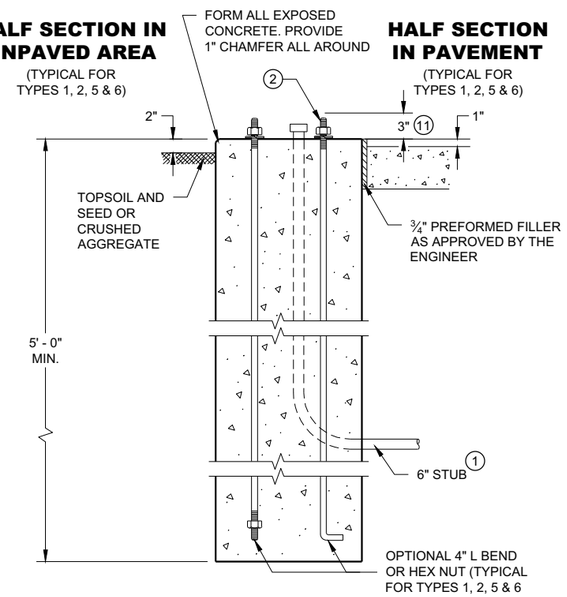
10 ⅝" DIA. X 8' -0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED

11 ANY ANCHOR ROD PROJECTION SHORTER THAN 2 ¾" OR LONGER THAN 3 ¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

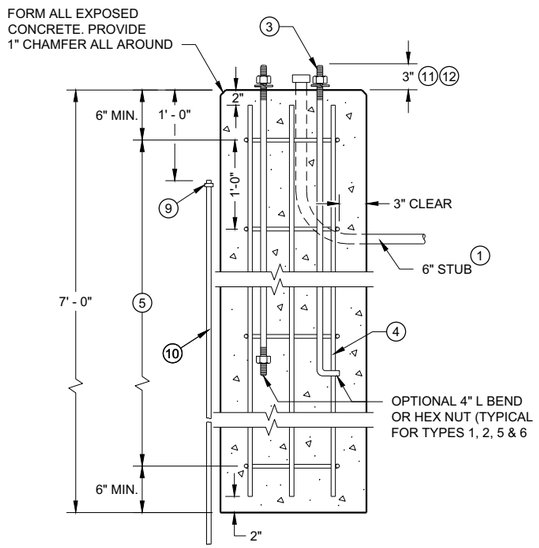
12 FOR NON - BREAKAWAY INSTALLATIONS, 4 ½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

HALF SECTION IN UNPAVED AREA
(TYPICAL FOR TYPES 1, 2, 5 & 6)

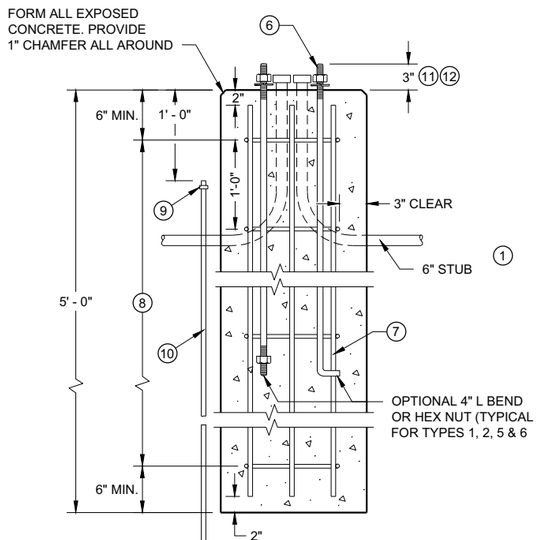
HALF SECTION IN PAVEMENT
(TYPICAL FOR TYPES 1, 2, 5 & 6)



TYPE 1



TYPE 2



TYPE 5 & 6

CONCRETE BASES

CONCRETE BASES TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

FHWA

GENERAL NOTES

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

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATIONS.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A NEMA APPROVED, U.L. LISTED, COPPER WITH BRASS OR STAINLESS STEEL SET SCREW, DIRECT BURY RATED, MECHANICAL CONNECTOR (LUG), SIZED TO ACCEPT AWG. #10 TO #4 COPPER STRANDED WIRE SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

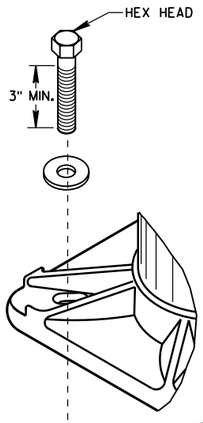
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

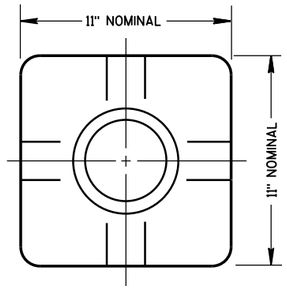
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

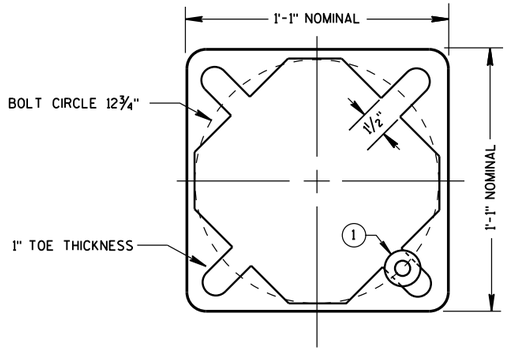
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

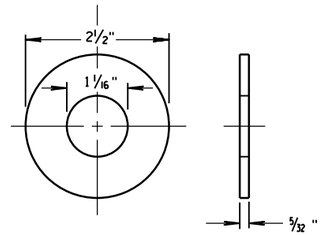




TOP VIEW
(PEDESTAL BASE)

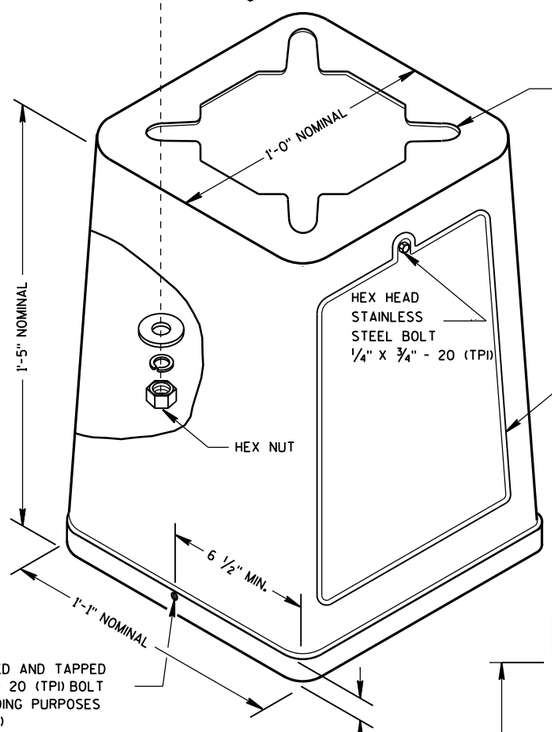


BOTTOM VIEW
(PEDESTAL BASE)

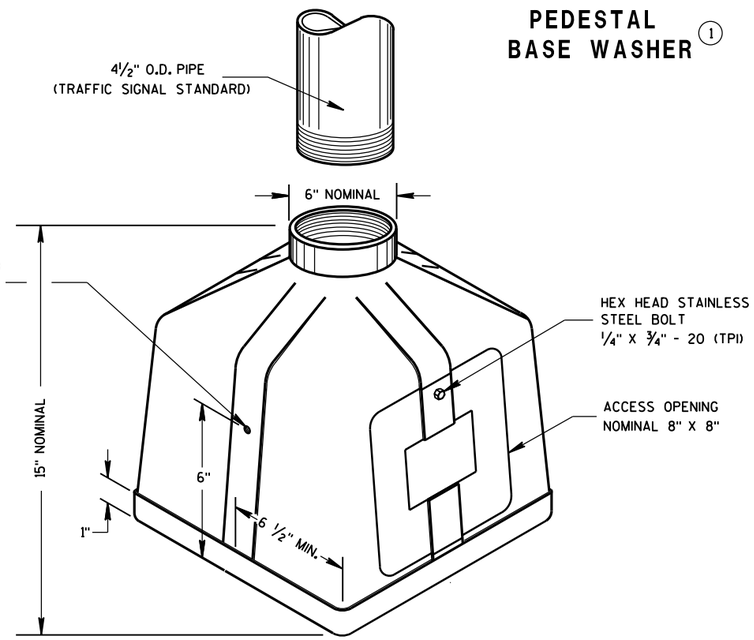


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

PEDESTAL BASE WASHER (1)

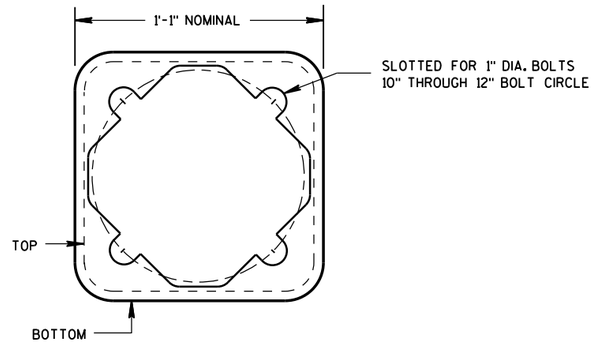


ISOMETRIC VIEW

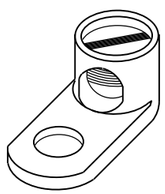


ISOMETRIC VIEW

PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)

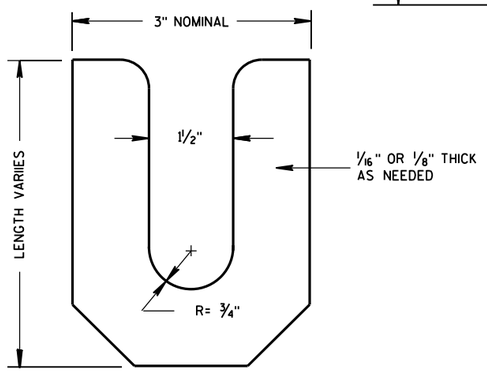


TYPICAL MECHANICAL CONNECTOR LUG

TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE

INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



LEVELING SHIM

TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

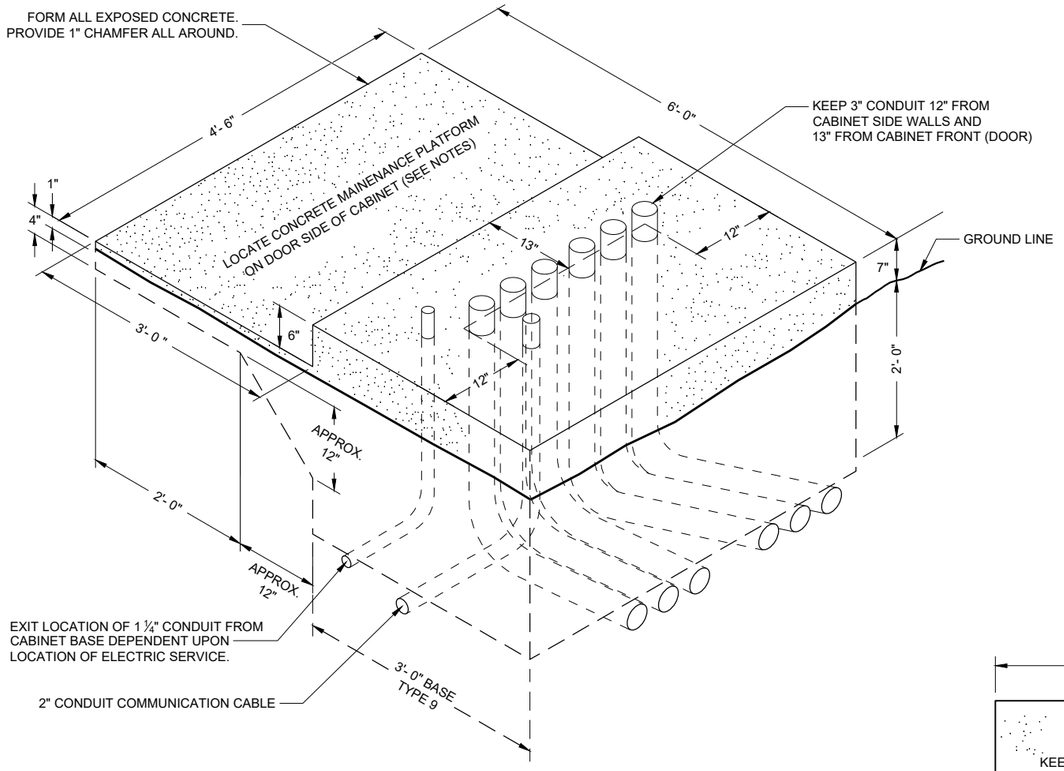
6

S.D.D. 9 C 3-4

6

S.D.D. 9 C 3-4

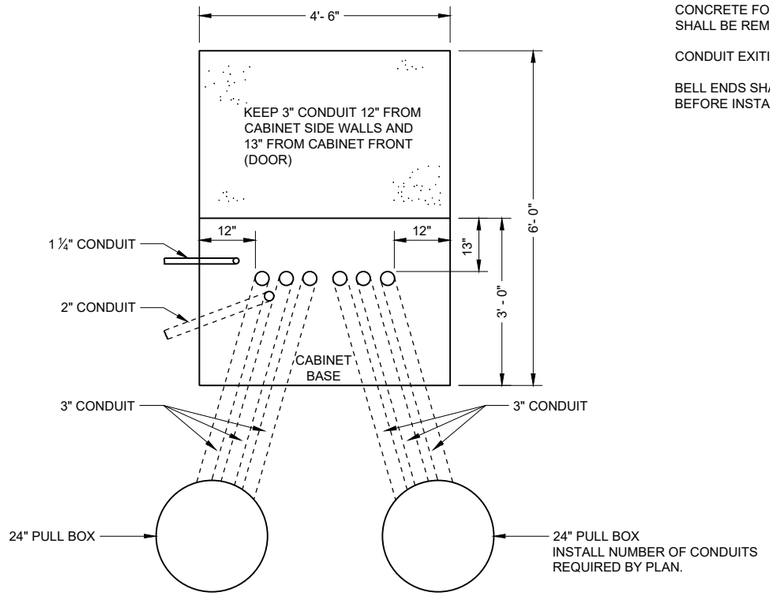
SDD 09C06 Concrete Control Cabinet Base, Type 9, Special



ISOMETRIC VIEW

TYPE 9 SPECIAL

(C.Y. CONCRETE = APPROX. 1.56)



PLAN VIEW

CONCRETE CONTROL CABINET BASE, TYPE 9 SPECIAL

GENERAL NOTES

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

INSTALL FOUR INCH MINIMUM DIAMETER X 4 INCH MINIMUM LENGTH STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS WITH A PULLOUT STRENGTH OF 9,000 LBS. TO ANCHOR THE CABINET TO TYPE 6, 7, 8, AND 9 BASES. THE ANCHOR STUDS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NON - METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U. L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT EQUALS 6 TIMES THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

PLUG ALL BELOW GRADE NON - METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON - METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6 INCHES MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

CONDUIT EXITING THE CONCRETE BASE (SIX 3") SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE CONTROL CABINET BASE TYPE 9, SPECIAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

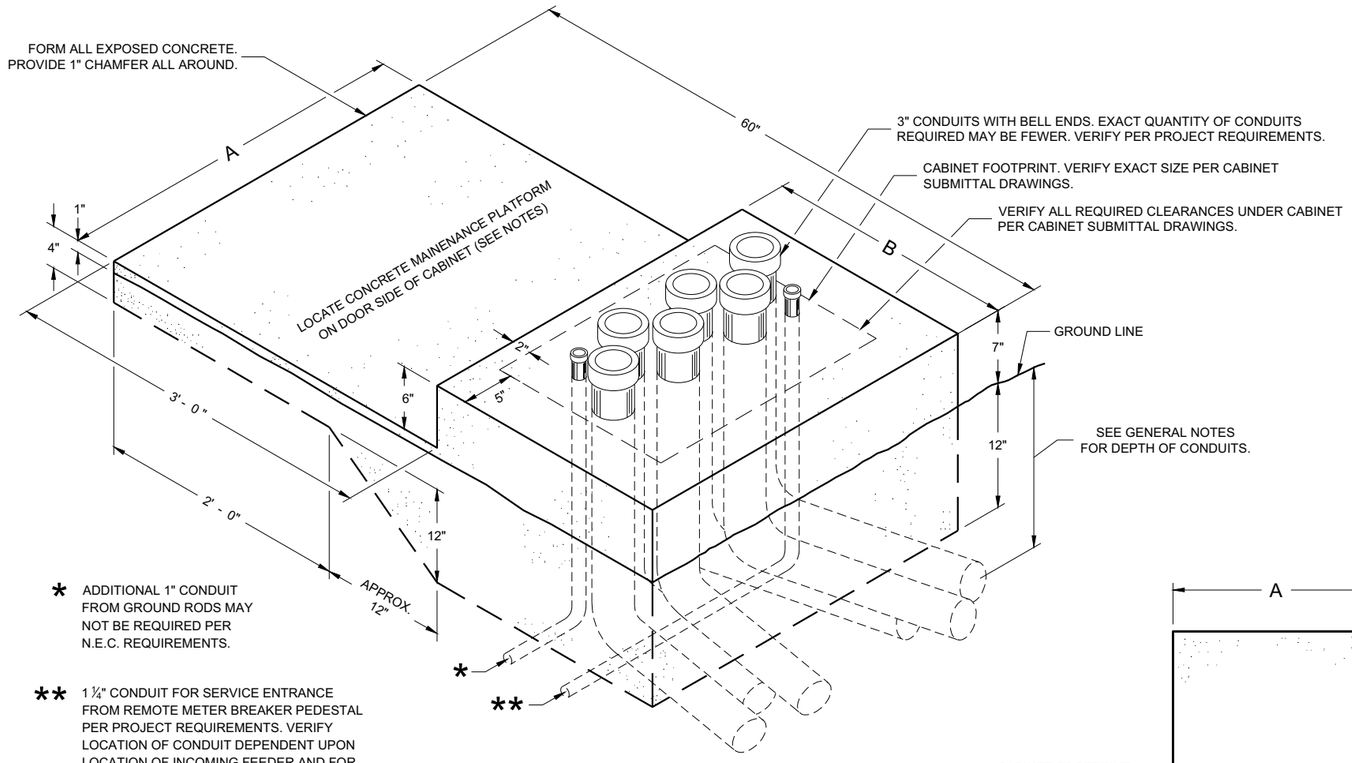
APPROVED
September 2014
DATE

/S/ Ahmet Demerbilek
STATE ELECTRICAL ENGI

FHWA

6

SDD 09C06 - 07



* ADDITIONAL 1" CONDUIT FROM GROUND RODS MAY NOT BE REQUIRED PER N.E.C. REQUIREMENTS.

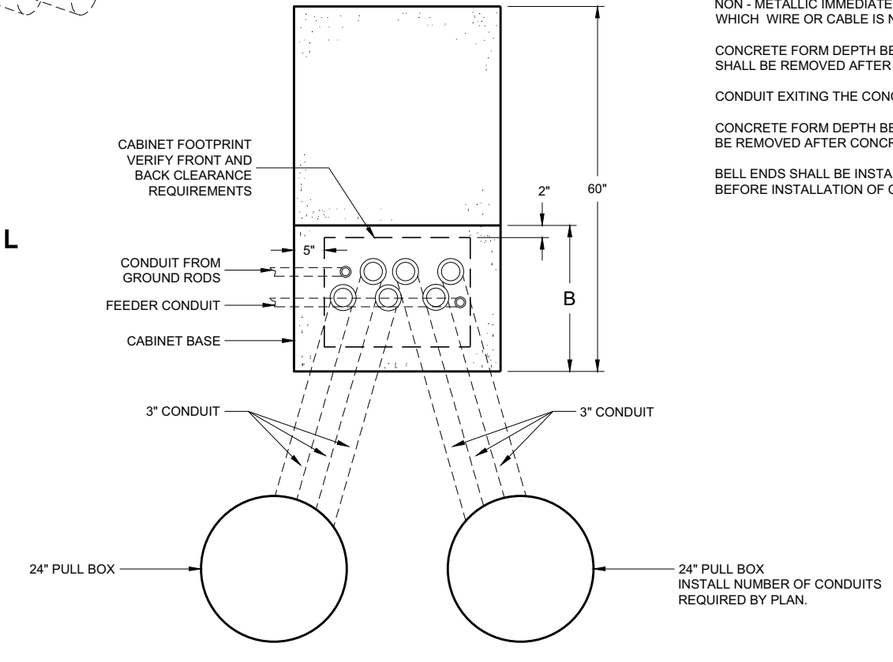
** 1 ¼" CONDUIT FOR SERVICE ENTRANCE FROM REMOTE METER BREAKER PEDESTAL PER PROJECT REQUIREMENTS. VERIFY LOCATION OF CONDUIT DEPENDENT UPON LOCATION OF INCOMING FEEDER AND FOR EASE OF CONNECTION TO LOAD CENTER.

ISOMETRIC VIEW

CONCRETE CONTROL CABINET BASE, TYPE L

(C.Y. CONCRETE = APPROX. 0.4)

CONCRETE BASE TYPE	CABINET WIDTH	DIMENSIONS		MAXIMUM 3" CONDUITS
		A	B	
L24	24"	34"	24"	4
L30	30"	40"	24"	6



PLAN VIEW

CONCRETE CONTROL CABINET BASE, TYPE L

GENERAL NOTES

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

INSTALL FOUR STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS TO ANCHOR THE CABINET BASES. THE ANCHORS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NON - METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U. L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

LOCATIONS SHALL BE AS SHOWN ON THE PLANS UNLESS DETERMINED BY THE ENGINEER IN THE FIELD.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT EQUALS 6 TIMES THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

PLUG ALL BELOW GRADE NON - METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON - METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6 INCHES MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

CONDUIT EXITING THE CONCRETE BASE SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6 INCH MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE CONTROL CABINET BASE, TYPE L

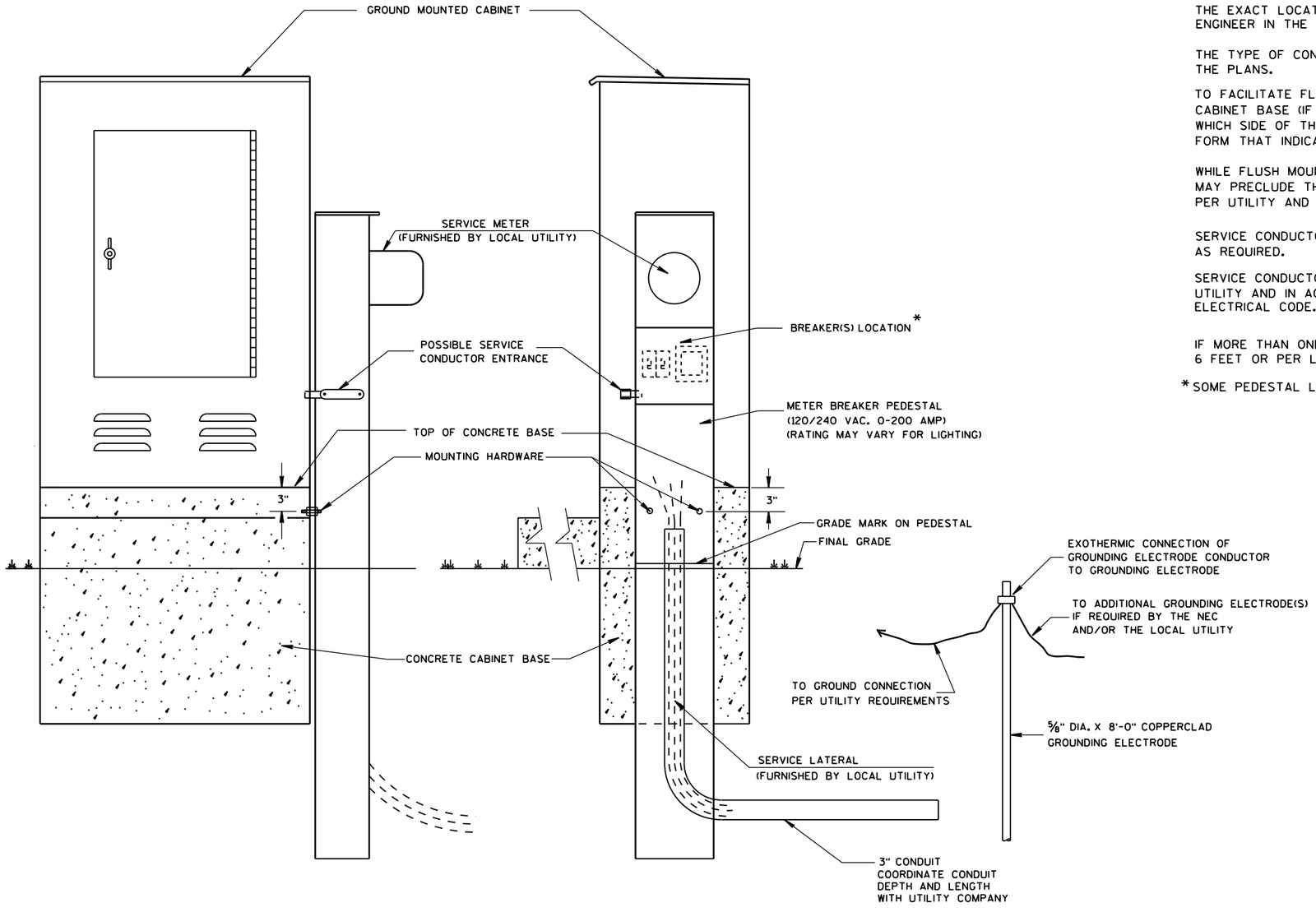
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

FHWA

6
SDD 09C14 - 03



TYPICAL CABINET SERVICE INSTALLATION

GENERAL NOTES

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

THE EXACT LOCATION OF THE METER BREAKER PEDESTAL SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE TYPE OF CONCRETE CABINET BASE TO BE INSTALLED SHALL BE AS CALLED FOR IN THE PLANS.

TO FACILITATE FLUSH MOUNTING OF THE METER BREAKER PEDESTAL AGAINST THE SIDE OF THE CABINET BASE (IF FLUSH MOUNTING POSSIBLE. CONFER WITH THE LOCAL UTILITY TO DETERMINE WHICH SIDE OF THE CONCRETE BASE THE ELECTRICAL SERVICE LATERAL WILL APPROACH. THEN FORM THAT INDICATED SIDE FOR FULL SIDE DEPTH.

WHILE FLUSH MOUNTING IS THE MOST DESIRABLE MOUNTING CONFIGURATION UTILITY REQUIREMENTS MAY PRECLUDE THIS OPTION. CONTRACTOR MUST PROVIDE UTILITY APPROVED PEDESTAL AND INSTALL PER UTILITY AND MANUFACTURERS REQUIREMENTS.

SERVICE CONDUCTOR ENTRANCES SHALL BE RIGID METALLIC CONDUIT, NIPPLES AND/OR CONDULETS AS REQUIRED.

SERVICE CONDUCTOR ENTRANCES SHALL BE SIZED AND LOCATED AS REQUIRED BY THE LOCAL UTILITY AND IN ACCORDANCE WITH APPROPRIATE ARTICLES OF THE LATEST ACCEPTED NATIONAL ELECTRICAL CODE.

IF MORE THAN ONE GROUNDING ELECTRODE IS REQUIRED, THE DISTANCE APART SHALL BE 6 FEET OR PER LOCAL UTILITY REGULATIONS.

* SOME PEDESTAL LIGHTING PLANS SHOW MAIN LUGS ONLY.

6

S.D.D. 9 D 1-5

6

S.D.D. 9 D 1-5

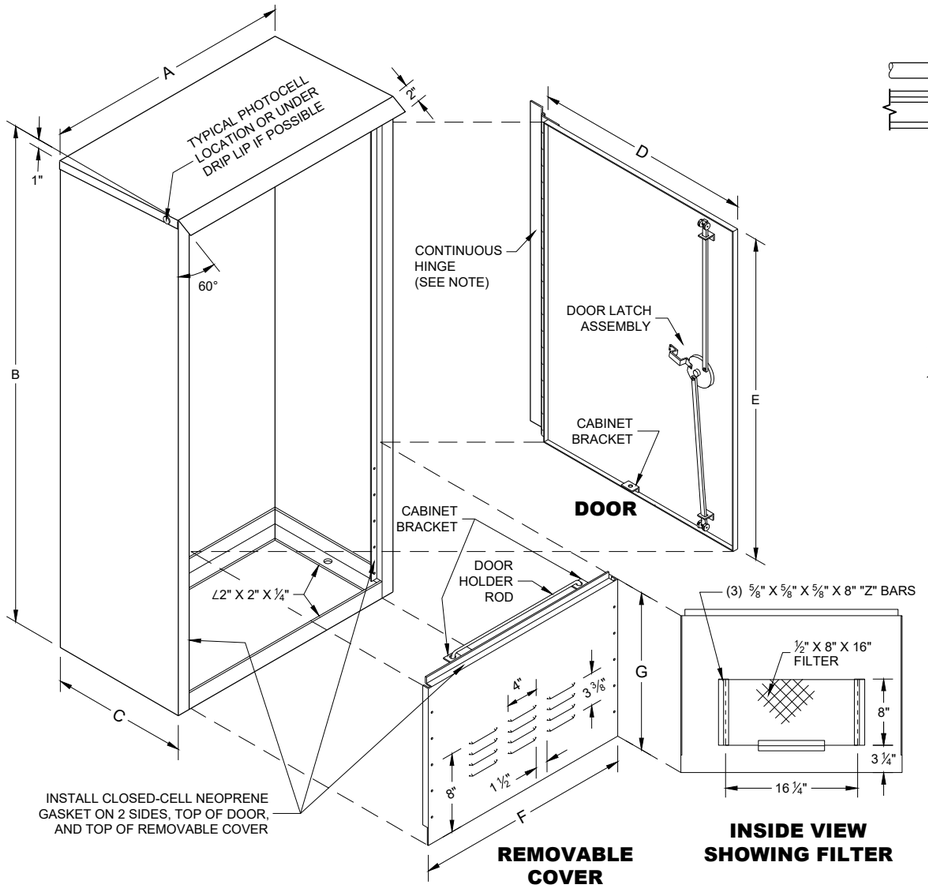
CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)

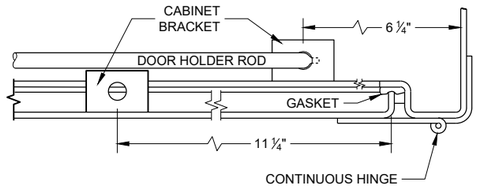
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014
DATE

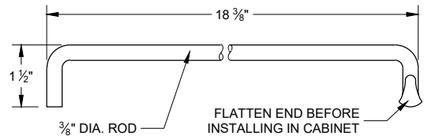
/S/ Ahmet Demirbilek
STATE ELECTRICAL

FHWA

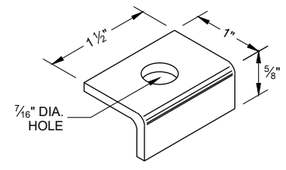




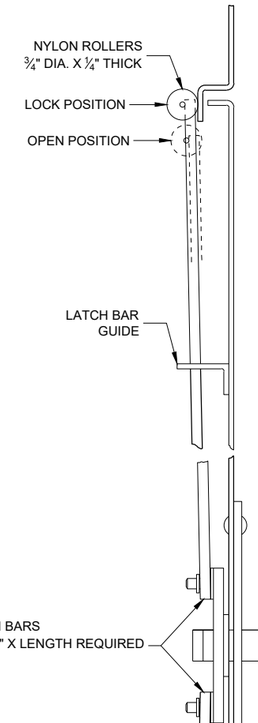
HINGE AND DOOR HOLDER

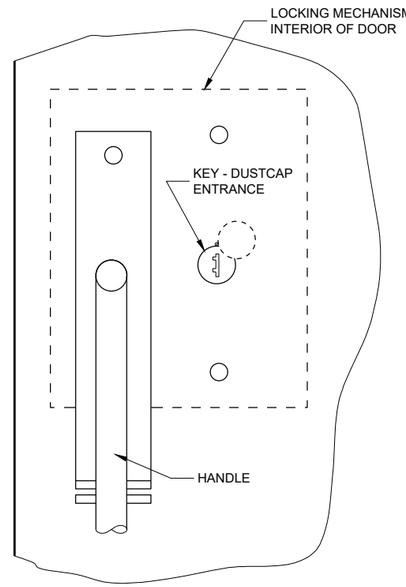


HOLDER ROD



CABINET BRACKET





SIDE VIEW **FRONT VIEW**

LATCH ASSEMBLY

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.

PRIME WITH PHOSPHATE TREATMENT AND PRIMER.

FINISH EXTERIOR SURFACES WITH RUSTOLEUM #906 SILVER GRAY OR APPROVED EQUAL.

FINISH INTERIOR WITH RUSTOLEUM #2766 HIGH GLOSS WHITE ENAMEL OR APPROVED EQUAL.

ALL SHEET METAL PARTS SHALL BE .125 INCH THICK ALUMINUM.

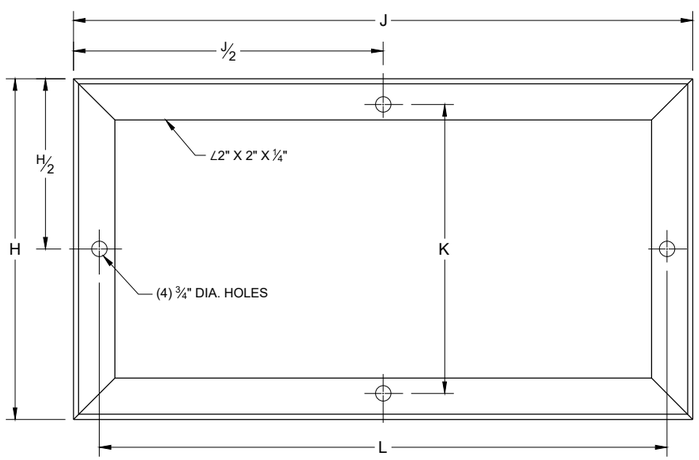
ALL SEAMS SHALL BE CONTINUOUSLY WELDED.

ALUMINUM SHALL BE TYPE 5052-H32.

CONTINUOUS HINGE SHALL BE HEAVY GAUGE ALUMINUM WITH ¼" DIAMETER STAINLESS STEEL HINGE PIN. HINGE IS SECURED WITH ¼" X 20 TPI STAINLESS STEEL CARRIAGE BOLTS AND STAINLESS STEEL NYLOCK NUTS.

A SINGLE PHOTOCELL SHALL BE LOCATED ON THE NORTH - NORTHEAST SIDE OF THE CABINET UNLESS OTHERWISE CALLED FOR IN THE SPECIAL PROVISIONS. THE PHOTOCELL SHALL BE PLACED AS SHOWN AND SHALL BE LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST.

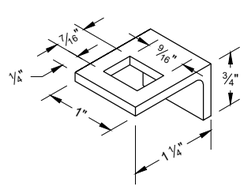
DOOR LATCH ASSEMBLY TO BE PROVIDED WITH THREE-POINT LOCKING MECHANISM.



MOUNTING BASE

TABLE OF DIMENSIONS (INCHES)

MARK	CABINET TYPE		
	3060	3860	3866
A	30	38	38
B	60	60	66
C	16 ½	16 ½	24
D	26 ½	34 ¾	33 ¾
E	38 ¾	38 ¾	38 ¾
F	26 ½	34 ¾	33 ¾
G	19	19	25
H	16 ½	16 ½	24
H/2	8 ¼	8 ¼	12
J	30	38	38
J/2	15	19	19
K	13 ¾	13 ¾	21 ¼
L	27 ½	35 ½	35 ½



LATCH BAR GUIDE

SIGNAL CONTROL CABINET

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
September 2014
DATE

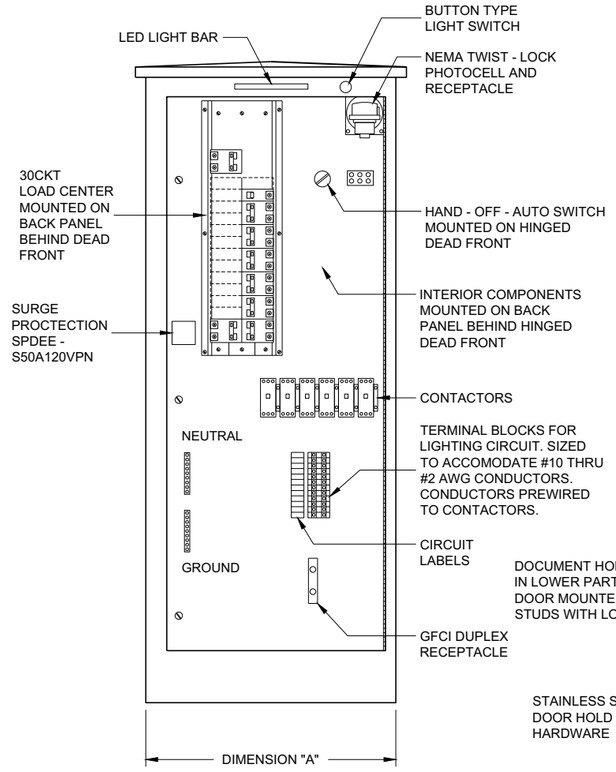
/S/ Ahmet Demerbilek
STATE ELECTRICAL ENGI

148

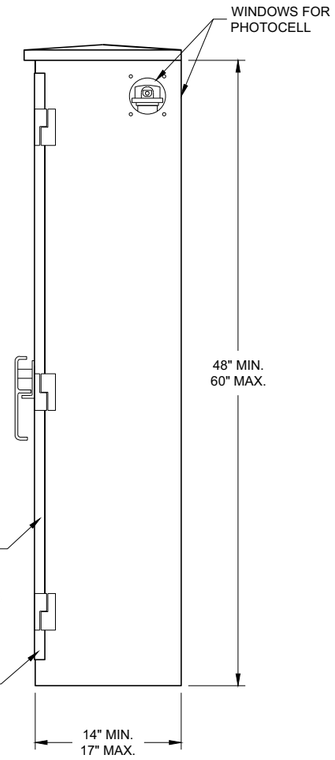
FHWA

6
SDD 09D02 - 03

FRONT INTERIOR ELEVATION



SIDE VIEW



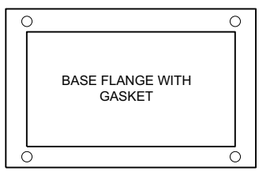
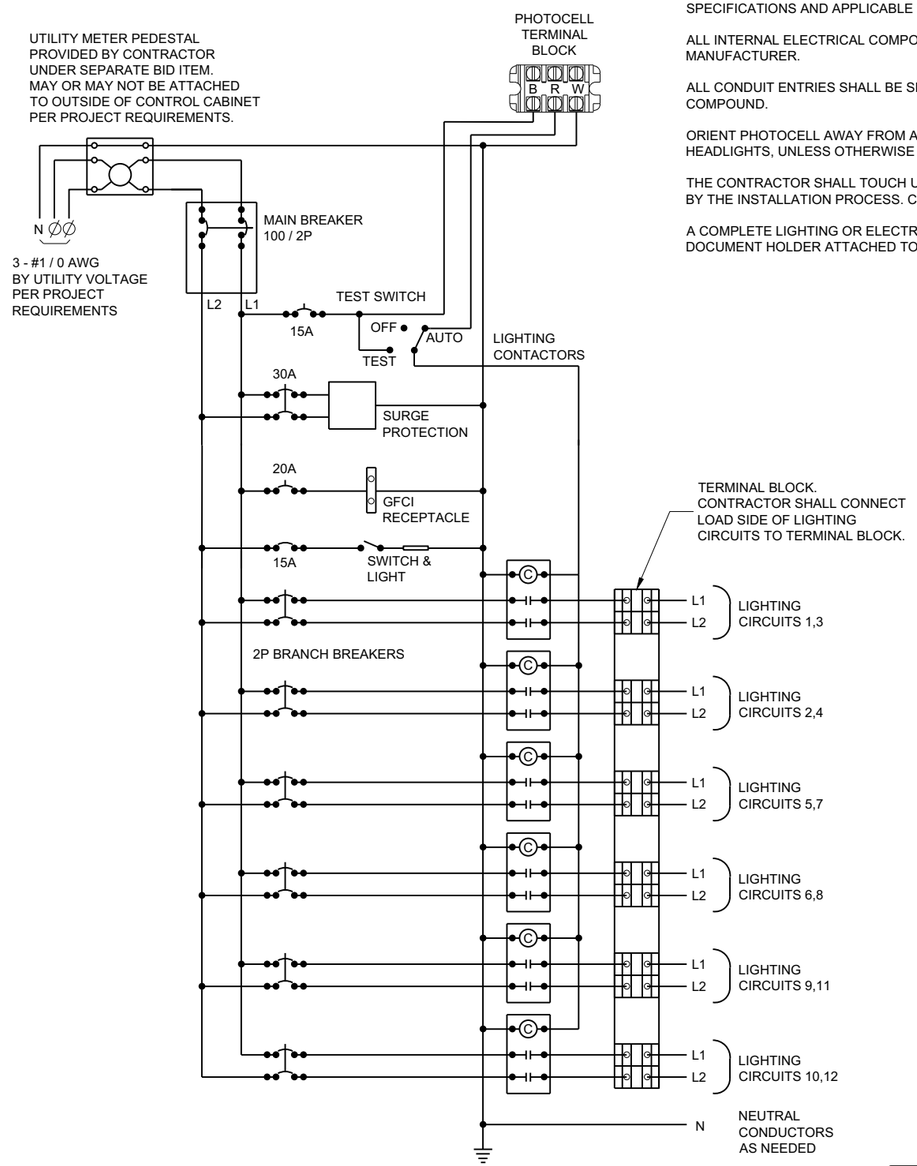


TABLE OF DIMENSIONS (INCHES)		
CONCRETE BASE TYPE	CABINET WIDTH	DIMENSION "A"
L24	24"	24"
L30	30"	30"

LIGHTING CONTROL CABINET



CONTROL CABINET SCHEMATIC

GENERAL NOTES

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

ALL INTERNAL ELECTRICAL COMPONENTS WILL BE PRE - WIRED BY THE CABINENT MANUFACTURER.

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

ORIENT PHOTOCELL AWAY FROM AMBIENT LIGHT SOURCES AND ONCOMING TRAFFIC HEADLIGHTS, UNLESS OTHERWISE CALLED FOR IN THE SPECIAL PROVISION.

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

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

LIGHTING CONTROL CABINET
120 / 240 VOLT

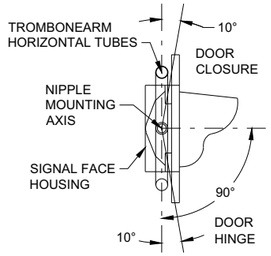
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

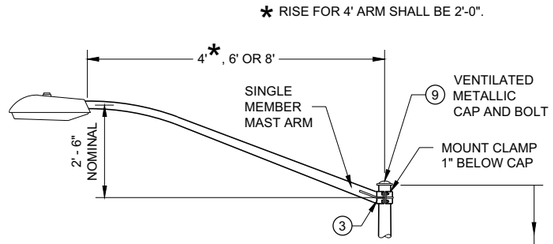
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

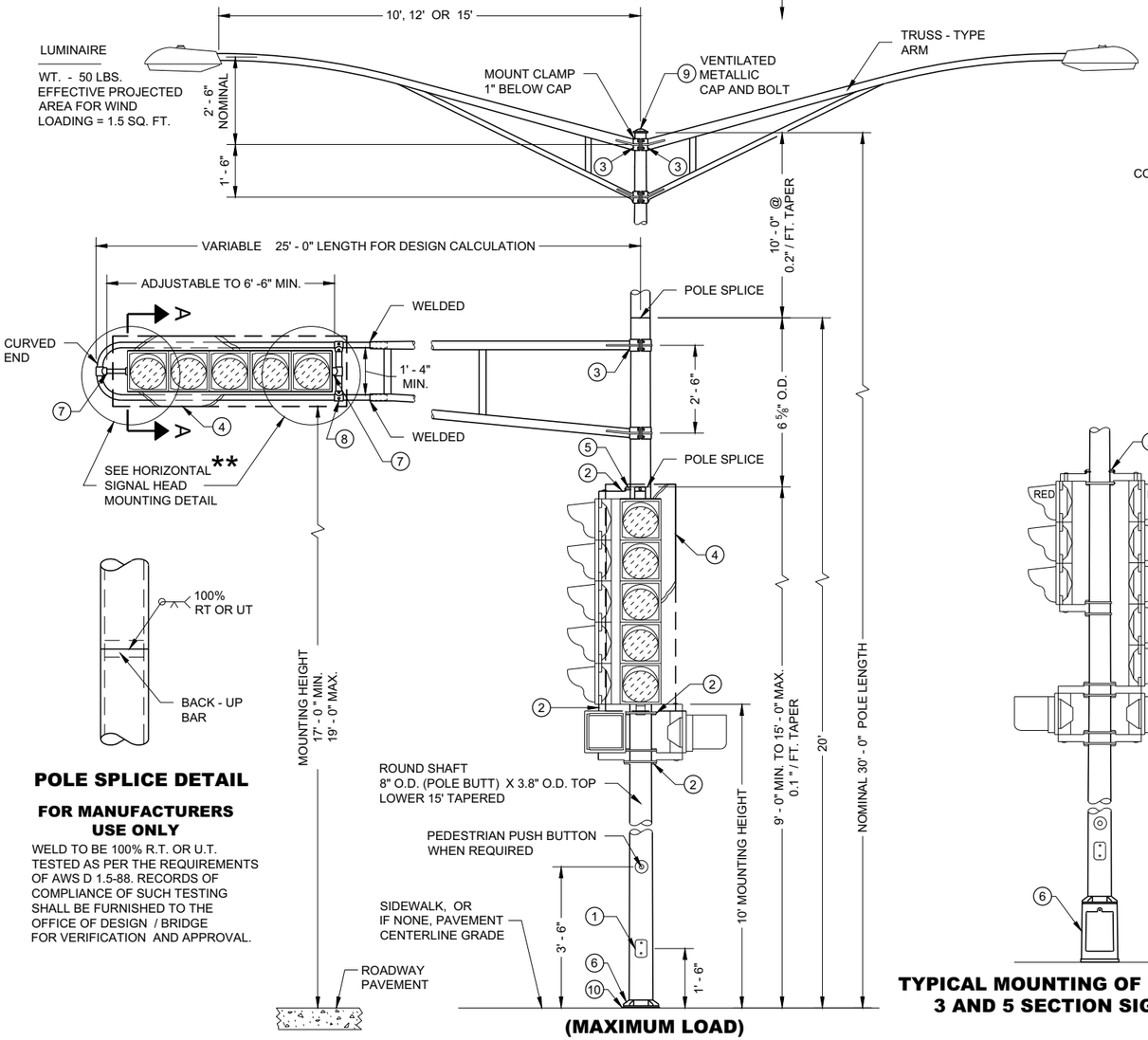
FHWA

6
SDD 09D04 - 03



SECTION A-A



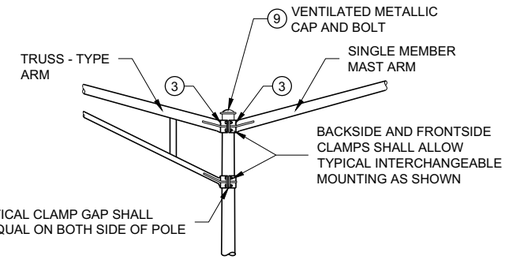


POLE SPLICE DETAIL

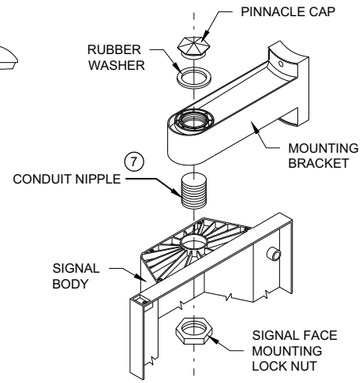
FOR MANUFACTURERS USE ONLY

WELD TO BE 100% R.T. OR U.T. TESTED AS PER THE REQUIREMENTS OF AWS D 1.5-88. RECORDS OF COMPLIANCE OF SUCH TESTING SHALL BE FURNISHED TO THE OFFICE OF DESIGN / BRIDGE FOR VERIFICATION AND APPROVAL.

(MAXIMUM LOAD)

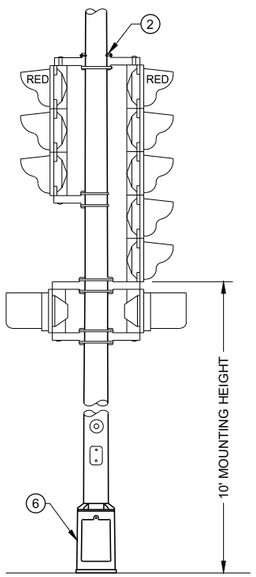


INTERCHANGEABLE MOUNTING DETAIL

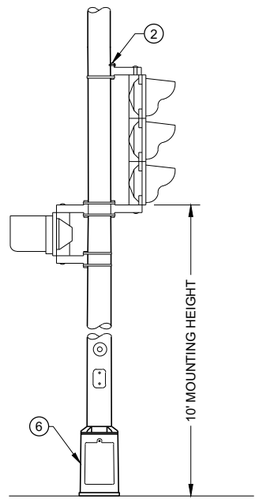


SIGNAL FACE MOUNTING DETAIL

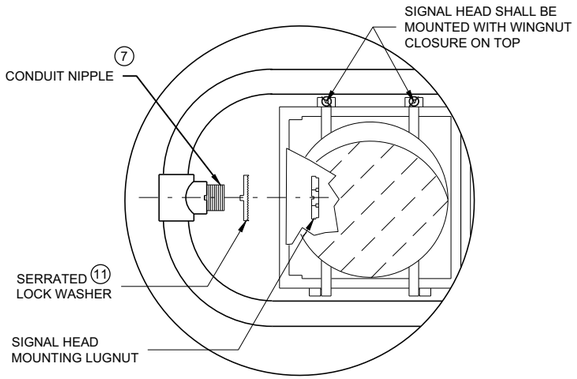
(BANDED)



TYPICAL MOUNTING OF BACK TO BACK 3 AND 5 SECTION SIGNAL FACES



TYPICAL MOUNTING OF 3 SECTION SIGNAL FACE



HORIZONTAL SIGNAL HEAD ** MOUNTING DETAIL

** SIGNAL HEAD ATTACHMENT ALSO APPLIES TO MOUNTING AT CROSS BAR

TYPE 3 POLE MOUNTING CONFIGURATION

GENERAL NOTES

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

ALL TYPE 3 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL.

SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

A PULL WIRE / ROPE SHALL BE INSTALLED IN EACH TROMBONE ARM RACEWAY DURING THE MANUFACTURING PROCESS.

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2 3/8 INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" X 6" REINFORCED HANDHOLE AND COVER ASSEMBLY WITH TWO (2) ¼" X ¾" - 20 TPI , STAINLESS STEEL, HEX HEAD BOLTS.

(2) SIGNAL FACE MOUNTING BRACKETS. MOUNT WITH CAP SCREWS AND BANDING.

(3) GROMMETS. 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 3/8" HOLE IN POLE SHAFT FOR WIRING.

(4) SECURELY MOUNT DULL BLACK POLYCARBONATE BACKPLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURER'S RECOMMENDATIONS.

(5) POLE MOUNTED SIGNAL FACES SHALL REQUIRE ONE OR MORE MOUNTING SPACERS UNDER THE TOP MOUNTING BRACKET(S) AS REQUIRED, TO PLUMB THE SIGNAL FACE.

(6) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED. UNDER MAX LOADING, TYPE 3 POLE SHALL BE MOUNTED DIRECTLY TO ITS CONCRETE BASE.

(7) USE 1 ½" ID NIPPLES ZINC-COATED RIGID METAL CONDUIT, LONG ENOUGH TO ACCOMMODATE FULL DEPTH THREADING INTO THE HEAD MOUNTING LOCK NUT IN ORDER TO TIGHTEN THE FACE, BUT THAT DO NOT INTERFERE WITH REFLECTOR CLOSURE. THREAD THE NIPPLE INTO THE MOUNTING BRACKET/ELBOW UNTIL TIGHT. USE APPROVED PINNACLE TYPE HARDWARE FROM A DEPARTMENT APPROVED MANUFACTURER TO CLOSE THE UNUSED 1 ½" OPENING IN SIGNAL FACES AND BRACKET ENDS.

(8) VERTICAL STRUT (ADJUSTABLE). ONE (1) SET SCREW (¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD) INTO EACH ARM MEMBER IF STRUT IS THE SLIDING TYPE.

(9) FURNISH AND INSTALL VENTILATED, CAST METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(10) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND POLE.

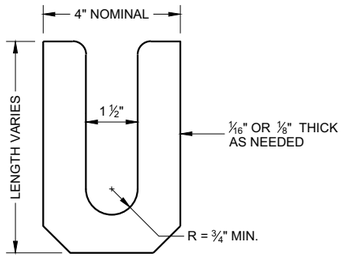
(11) USE SERRATED LOCK WASHERS WITH NOTCHES BETWEEN END TEE AND SIGNAL HEAD.

POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS TYPE 3 (HEAVY DUTY)

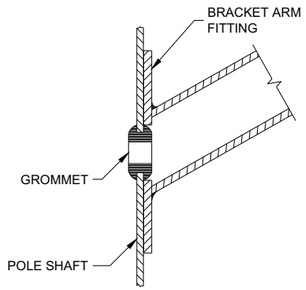
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

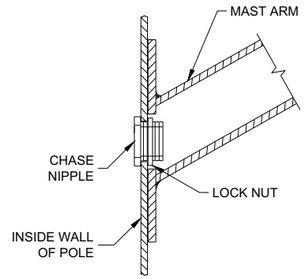
SDD 09E01 - 15b
SDD 09E01 - 15b



LEVELING SHIM (1)
SHALL BE ALUMINUM



TYPICAL APPLICATION OF GROMMET IN POLE SHAFT



TYPICAL APPLICATION OF CHASE NIPPLE IN POLE SHAFT

GENERAL NOTES

CLAMP BOLT-NUT TIGHTENING TORQUE SHALL BE INDICATED BY INDENT STAMPING (1/2 INCH NUMERALS AND LETTERS) OR WEATHERPROOF PRINTING ON THE INSIDE OF THE CLAMP THAT IS WELDED TO THE ARM MEMBER.

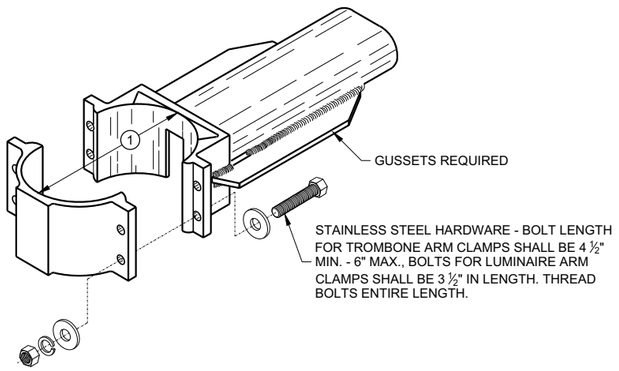
(1) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP. 6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

(2) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)

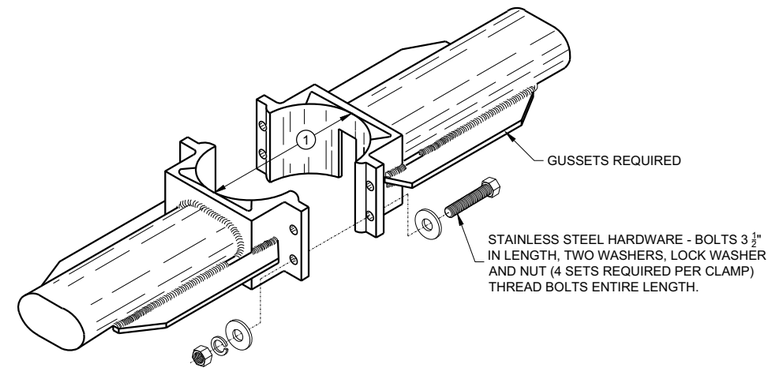
(3) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

(4) LEVELING SHIMS, DESIGNED FOR THE PURPOSE, SHALL BE USED WHEN PLUMBING POLES. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE. LEVELING SHIMS SHALL BE USED ONLY BETWEEN THE TOP OF THE CONCRETE BASE AND A METALLIC BASE PLATE.

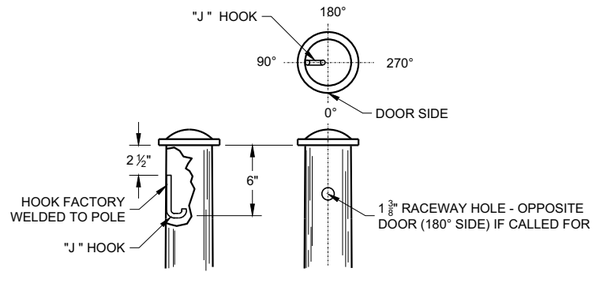
SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



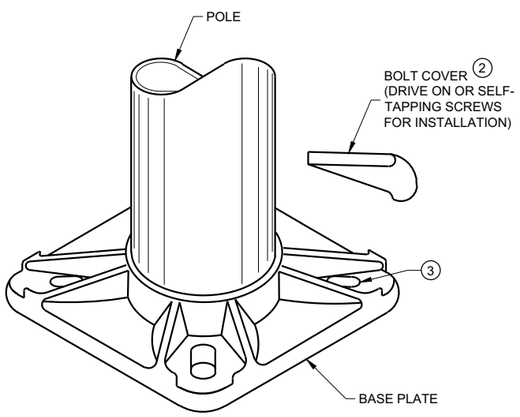
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



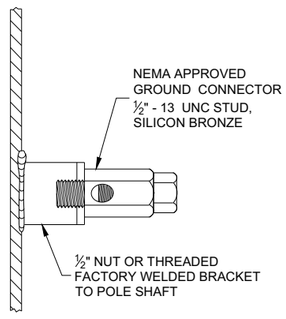
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

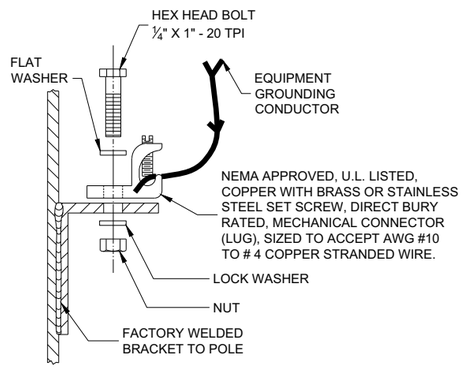


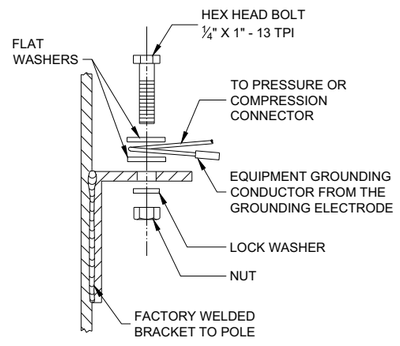
TYPICAL "J" HOOK LOCATION



BASE PLATE







TYPICAL GROUNDING CONNECTIONS
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL

HARDWARE DETAILS FOR POLE MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

FHWA

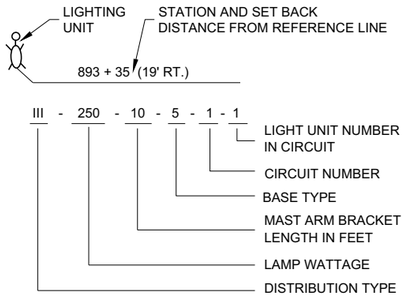
6
SDD 09E01 - 15g

GENERAL NOTES

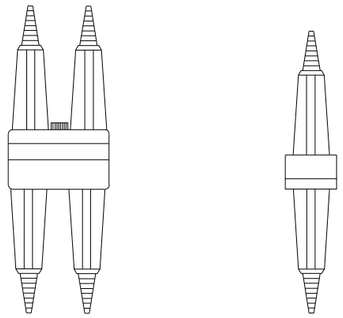
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EQUIPMENT GROUND CONNECTOR SHALL BE TAPED WITH 3 WRAPS (MINIMUM) OF APPROVED RUBBER TAPE AND 3 WRAPS (MINIMUM) OF APPROVED VINYL TAPE TO COVER SHARP WIRE ENDS AFTER THE CONNECTION IS COMPLETED.

WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.

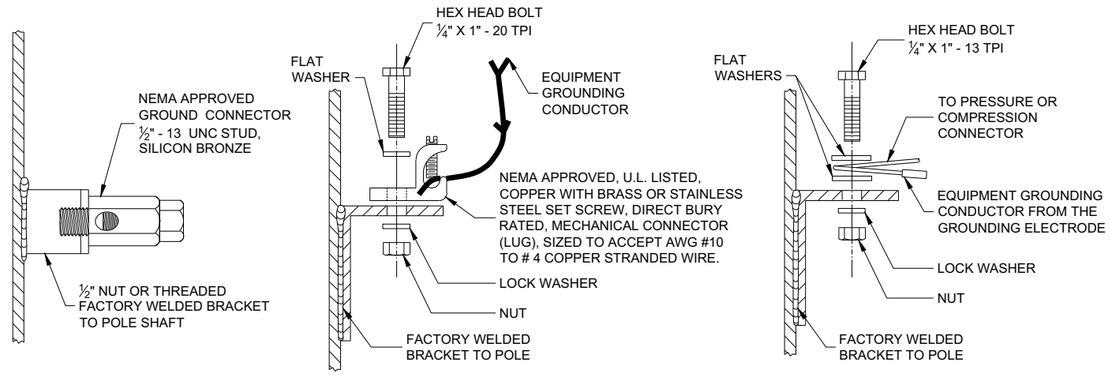


LIGHTING UNIT CODE
(TYPICAL)

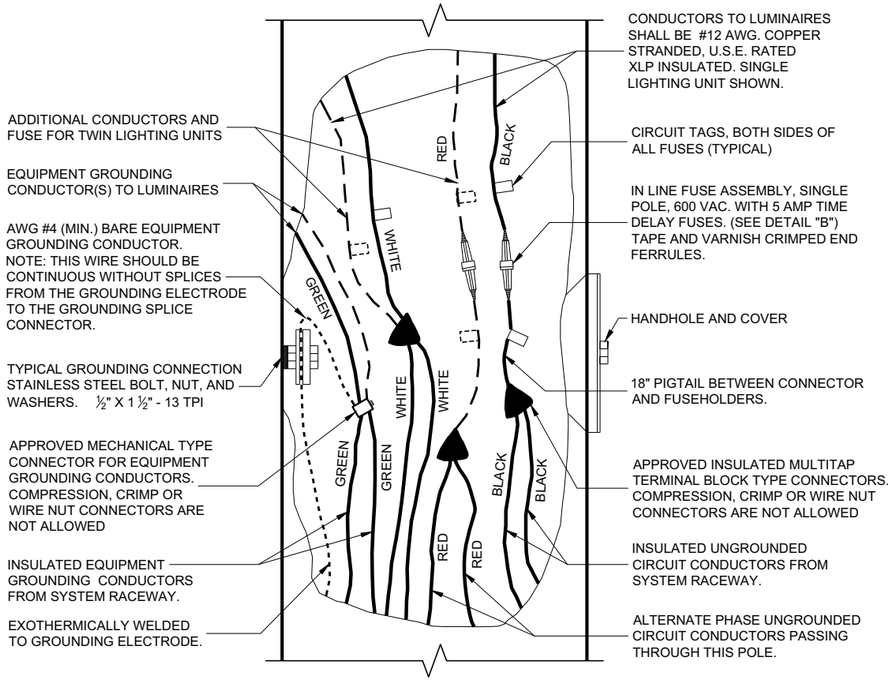


DETAIL "A"
BREAKAWAY DOUBLE POLE WITH WATERPROOF INSULATING BOOT

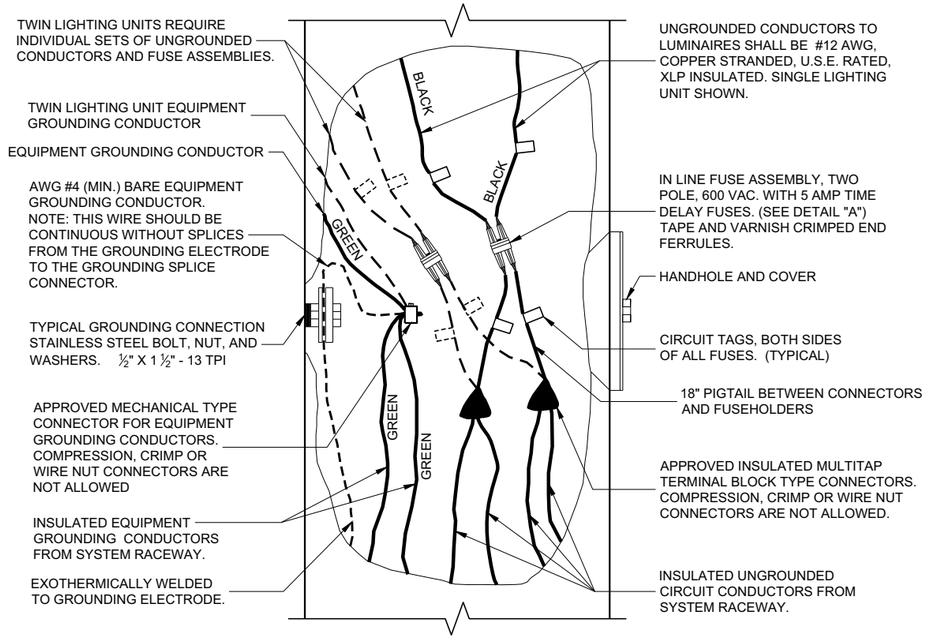
DETAIL "B"
BREAKAWAY SINGLE POLE WITH WATERPROOF INSULATING BOOT



TYPICAL GROUNDING CONNECTIONS
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



3 WIRE - 120, 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH GROUNDING CONDUCTOR AND EQUIPMENT GROUNDING CONDUCTOR



2 WIRE - 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH EQUIPMENT GROUNDING CONDUCTOR

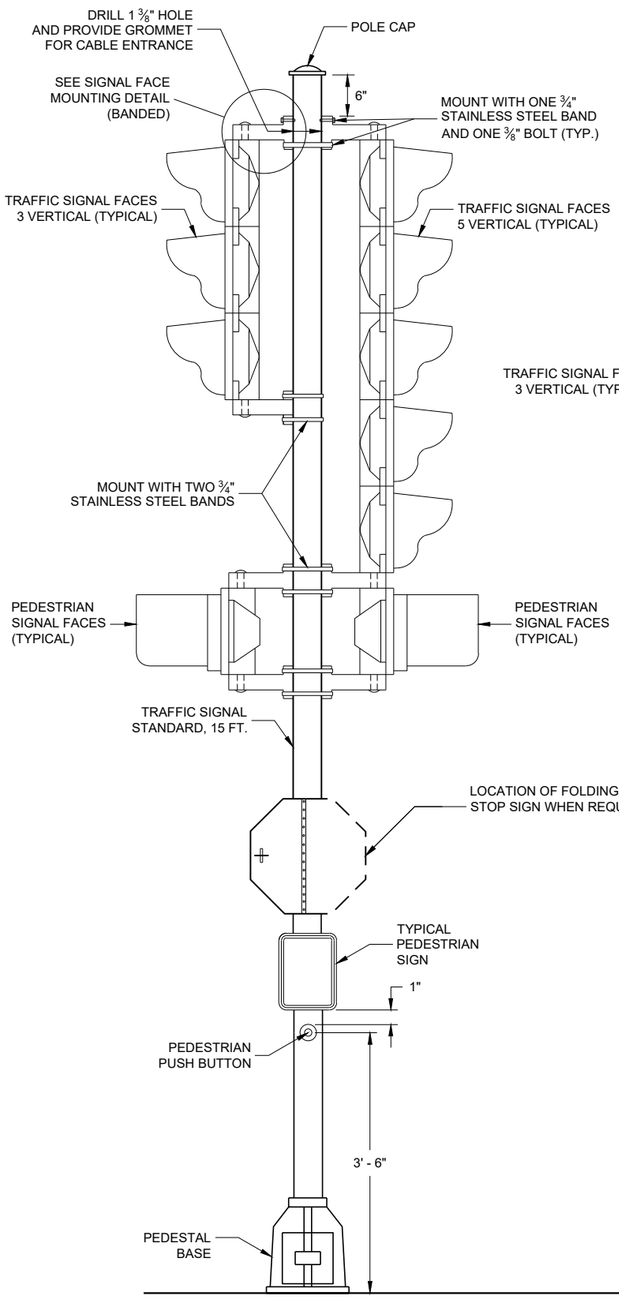
NON - FREEWAY LIGHTING UNIT POLE WIRING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

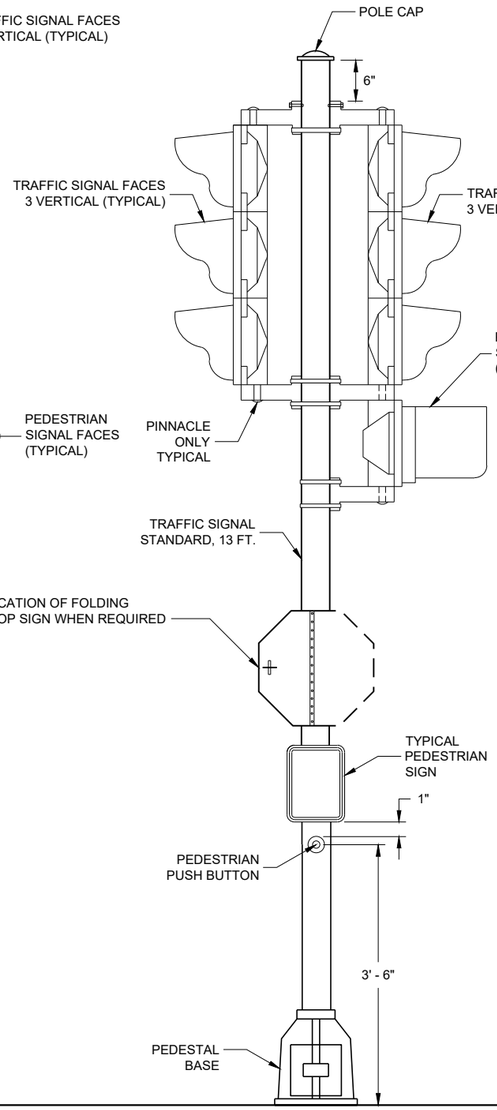
APPROVED
November 2018
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

FHWA

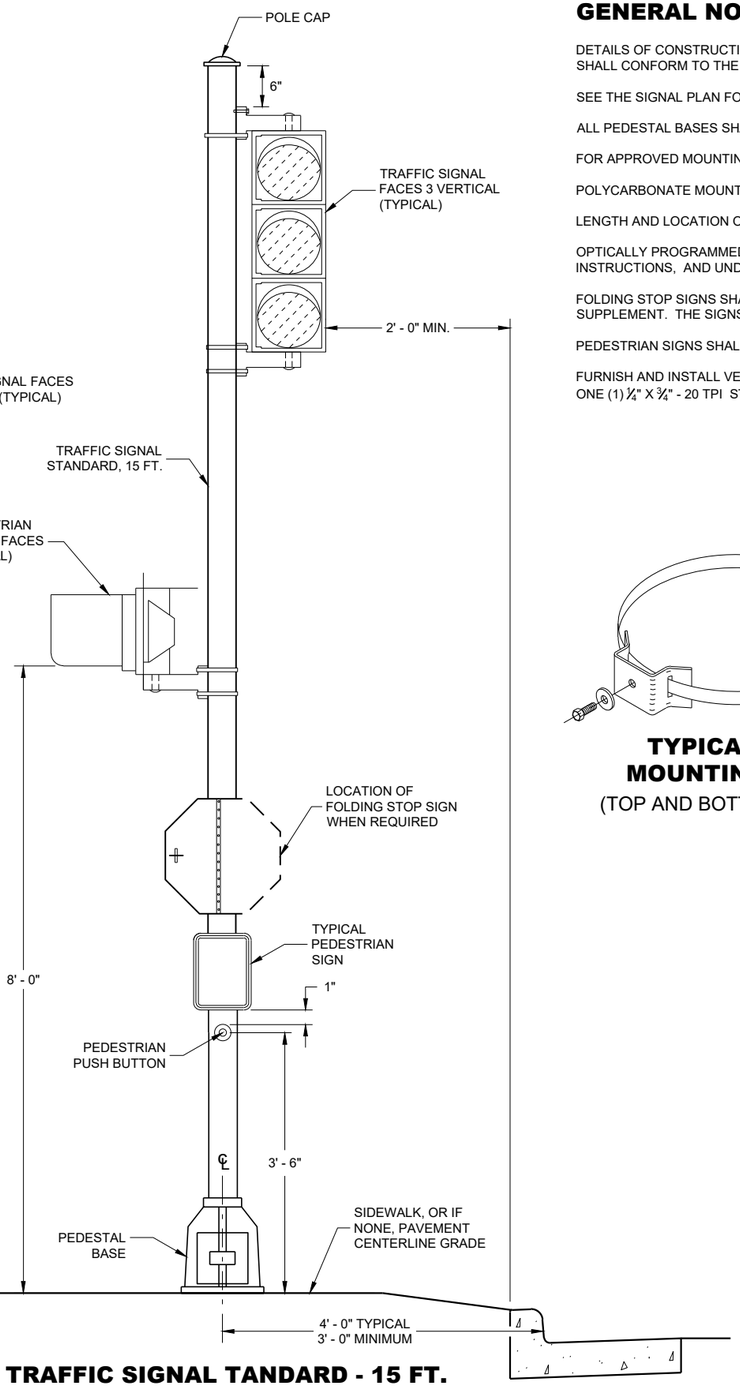
6
SDD 09E03 - 06



TRAFFIC SIGNAL STANDARD - 15 FT.



TRAFFIC SIGNAL STANDARD - 13 FT.



TRAFFIC SIGNAL TANDARD - 15 FT.
3M MOUNTING (TYPICAL)

GENERAL NOTES

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

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIAL PROVISIONS.

POLYCARBONATE MOUNTING BRACKETS SHALL BE USED.

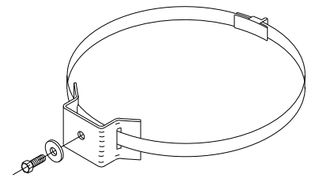
LENGTH AND LOCATION OF TRAFFIC SIGNAL STANDARDS SHALL BE AS SHOWN ON THE PLANS.

OPTICALLY PROGRAMMED SIGNAL FACES SHALL BE MASKED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS, AND UNDER THE DIRECTIONS OF THE REGION TRAFFIC ENGINEER.

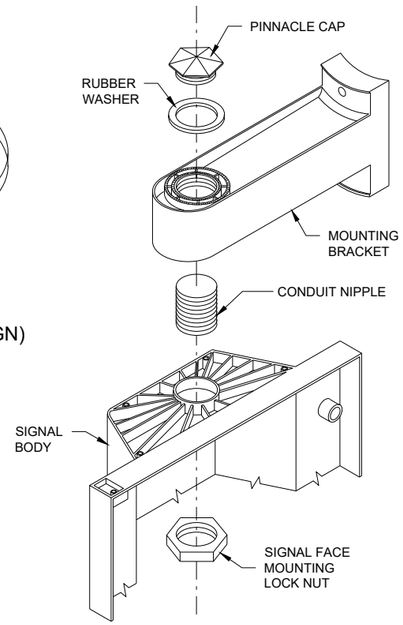
FOLDING STOP SIGNS SHALL BE IN ACCORDANCE WITH THE MUTCD AND/OR THE LATEST WISCONSIN SUPPLEMENT. THE SIGNS SHALL BE SIZED AND LOCATED AS CALLED FOR IN IN THE PLANS.

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) 1/4" X 3/4" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.



TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



SIGNAL FACE MOUNTING DETAIL (BANDED)

TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.

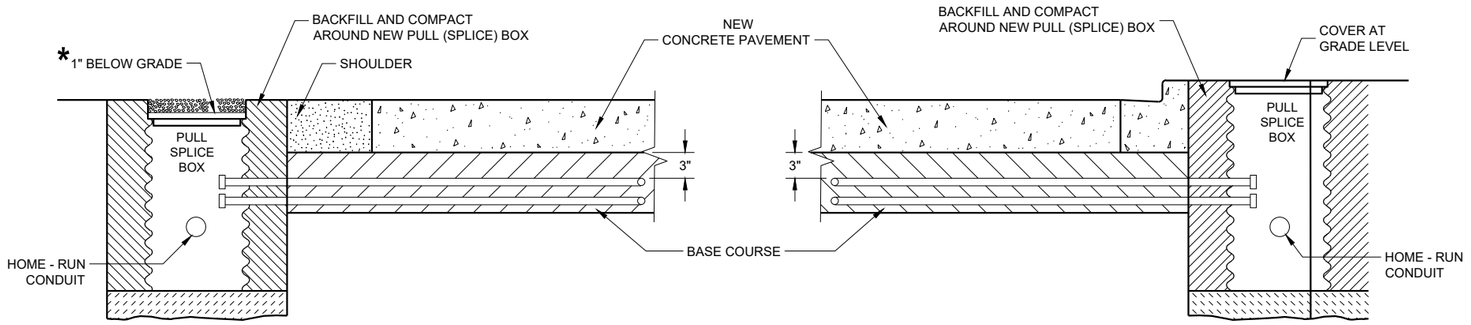
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
2/28/2013
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 153

FHWA

6
SDD 09E06 - 05



SECTION A - A
NO CURB AND GUTTER

SECTION B - B
CURB AND GUTTER

* RECESS PULL (SPLICE) BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.

LOOP DETECTOR INSTALLATION DETAIL

GENERAL NOTES

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

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL (SPLICE) BOX.

LOOP SIZE, LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST OR AN ENGINEER APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READING TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

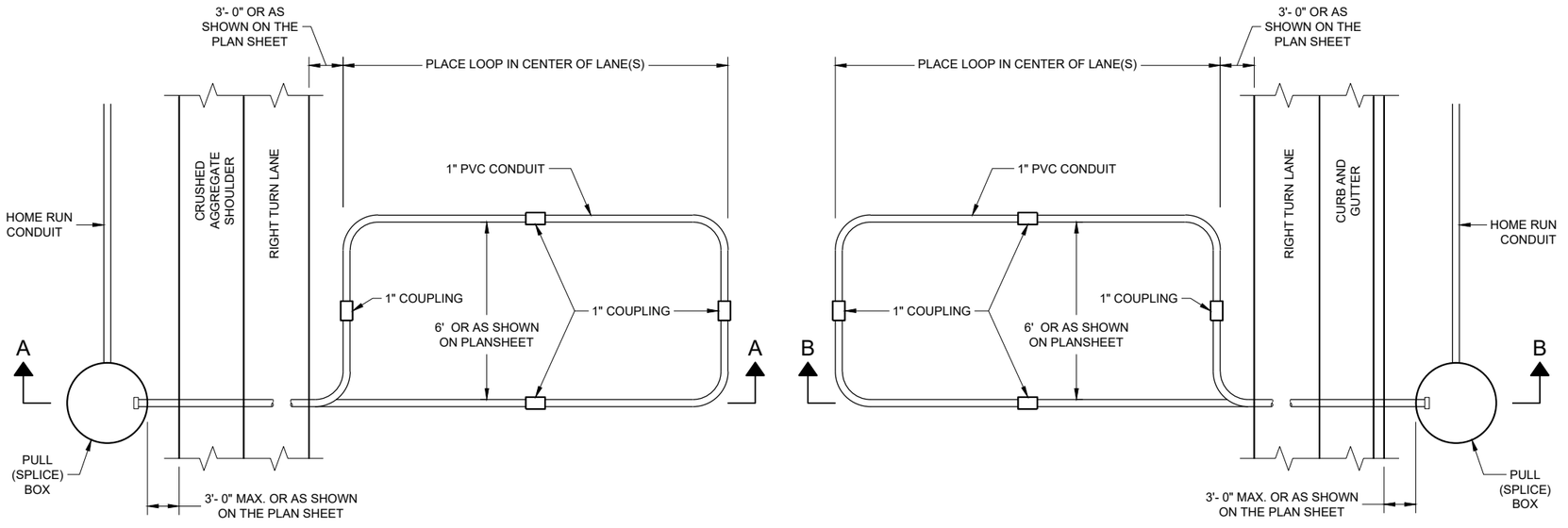
THE #12 AWG LOOP WIRE IN THE PULL (SPLICE) BOX SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE BEING SPLICED TO THE LOOP LEAD-IN CABLE.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL (SPLICE) BOXES AT THE SIDE OF THE ROAD.

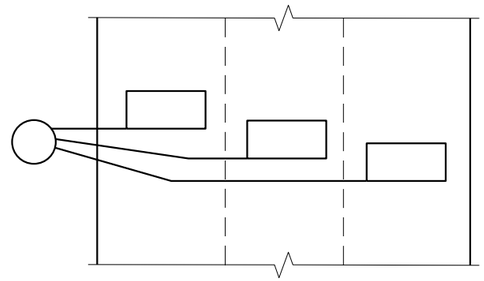
THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL (SPLICE) BOX, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL (SPLICE) BOX, AND BE INSTALLED IN ONE NON-SPLICED, CONTINUOUS LENGTH.

PROTECTION OF THE CONDUIT IN THE BASE COURSE SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW PAVEMENT IS INSTALLED.

SHOULD INSTALLATION REPAIR BE REQUIRED, IT SHALL BE DONE UNDER THE DIRECTION OF THE PROJECT ENGINEER.



TYPICAL PLAN LOOP DETECTOR WITH 24" PULL (SPLICE) BOX



MULTI-LANE INSTALLATION

LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
September 2014
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

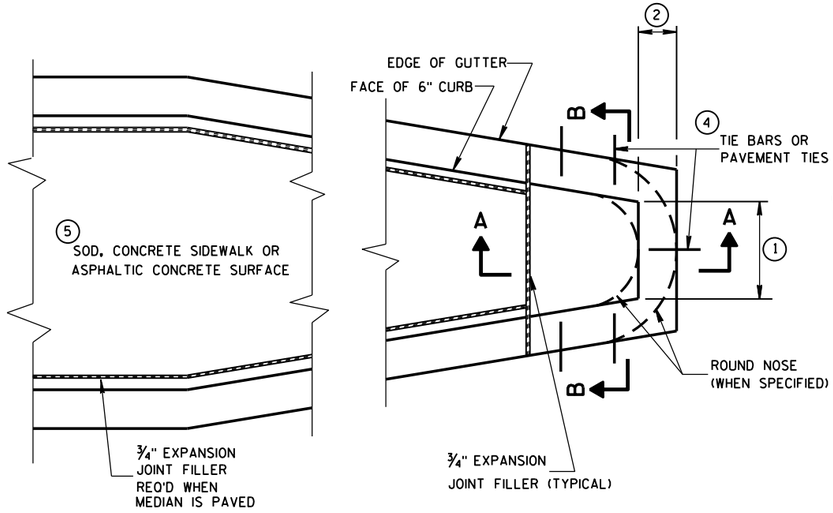
FHWA

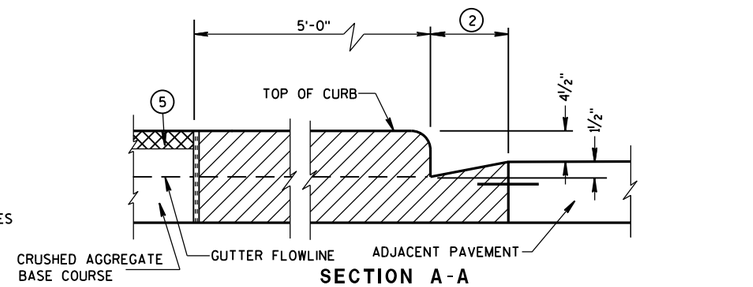
6

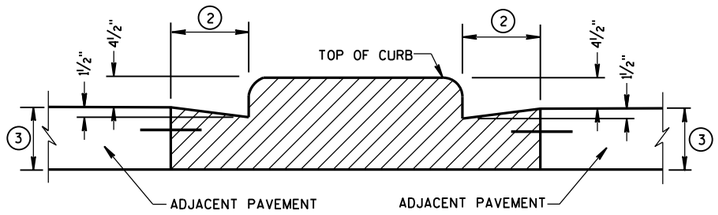
SDD 09F15 - 04b

6

SDD 09F15 - 04b







CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

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

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

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

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

(1) NEW OR EXISTING CONCRETE PAVEMENT.

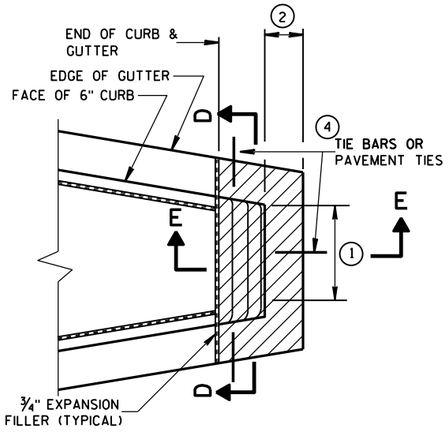
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

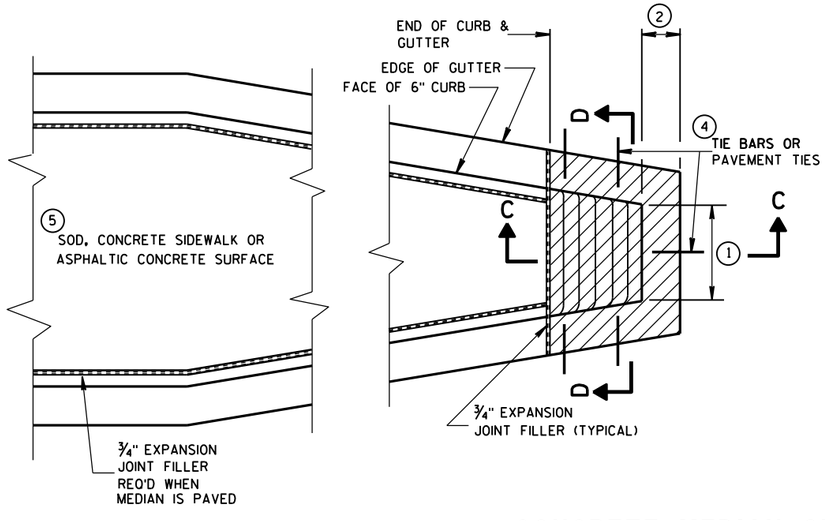
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

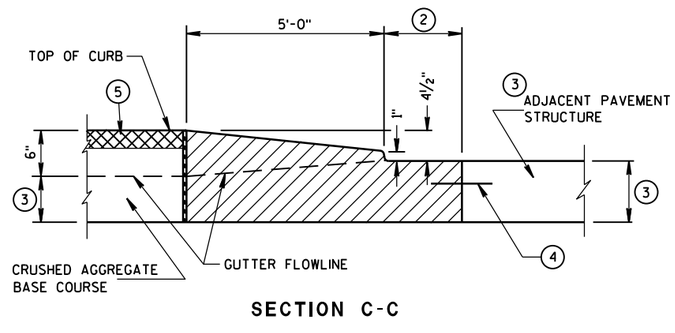
(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

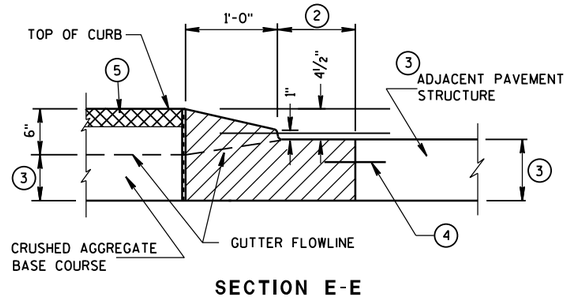
PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

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



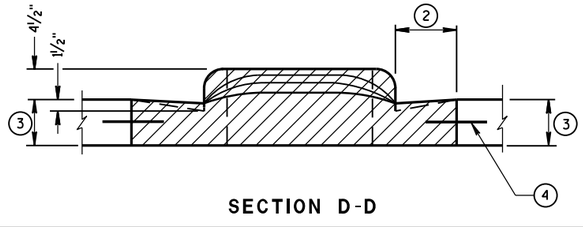






CONCRETE MEDIAN SLOPED NOSE TYPE 2

CONCRETE MEDIAN SLOPED NOSE TYPE 1



CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

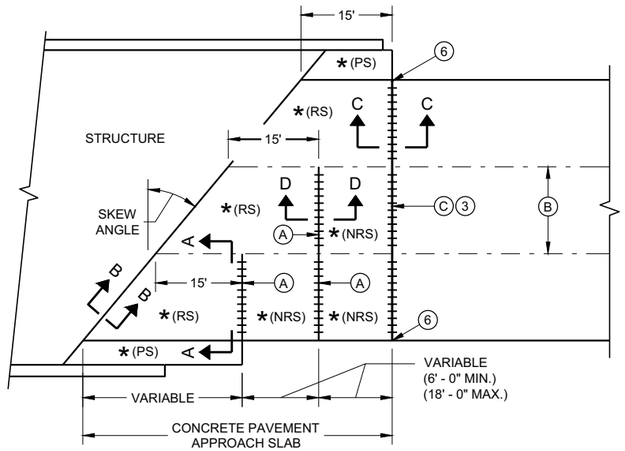
APPROVED
6/8/2006
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS D ENGINEER
FHWA

6

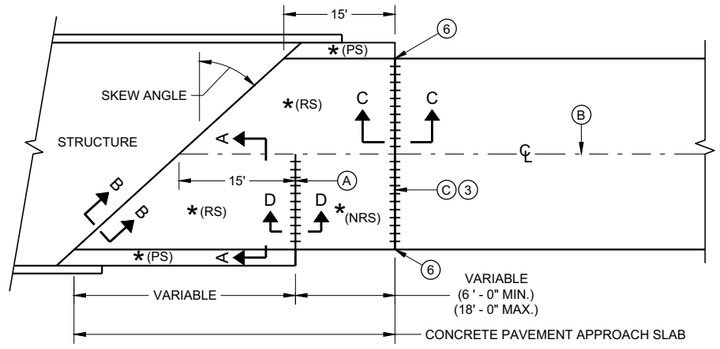
S.D.D. 11 B 2-2

6

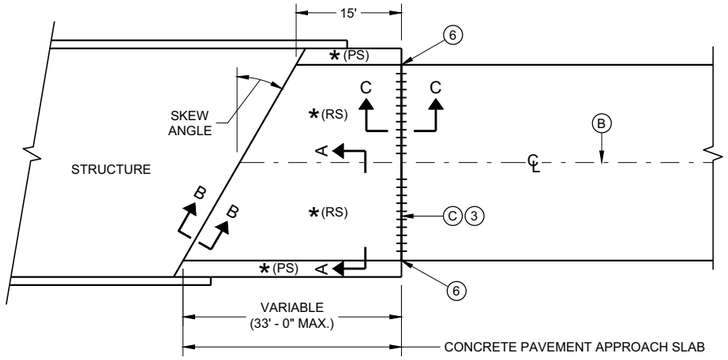
S.D.D. 11 B 2-2



SKEWED APPROACH
(PAVEMENT MORE THAN TWO LANES)



SKEWS > 20°
(PAVEMENT WIDTH ≤ 30')



SKEWS ≤ 20°
(PAVEMENT WIDTH ≤ 30')

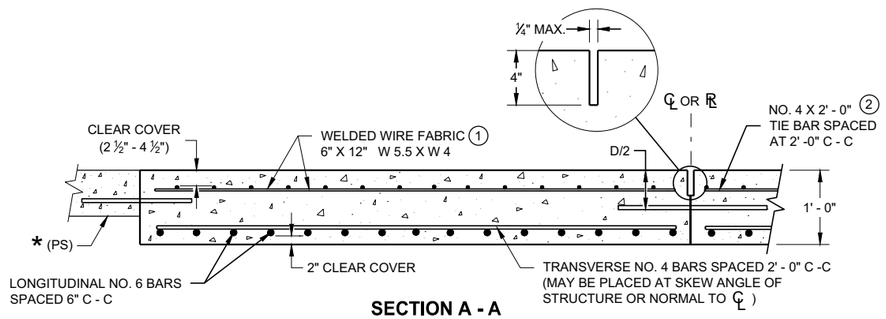
APPROACH SLAB AND ADJACENT PAVEMENT

* (RS) = REINFORCED CONCRETE SLAB

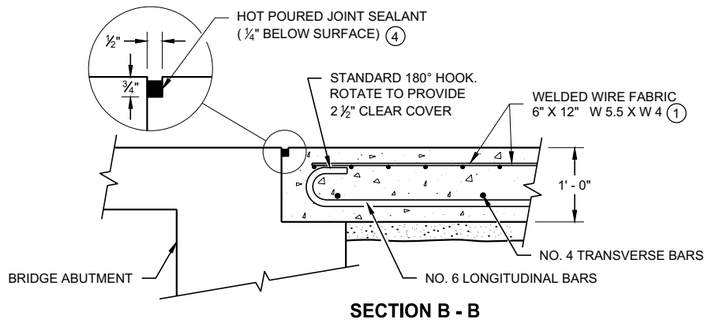
* (PS) = PAVED CONCRETE SHOULDER OR CONCRETE DRAINAGE SLAB

* (NRS) - NON - REINFORCED CONCRETE SLAB

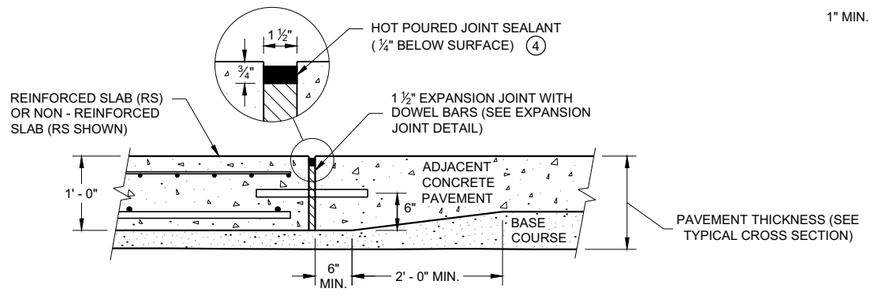
*** STANDARD DOWEL BAR DIAMETER (SEE SDD 13C11 AND SDD 13C13)



SECTION A - A
REINFORCEMENT POSITIONING DETAIL



SECTION B - B
BEND DETAIL
BOTTOM REINFORCEMENT



SECTION C - C
TRANSITION DETAIL
APPROACH SLAB TO ADJACENT PAVEMENT

GENERAL NOTES

THE CONTRACTOR MAY SPLICE NO. 6 BARS IN THE APPROACH SLAB FOR SKEWED STRUCTURES ONLY. STAGGER SPLICES WITH A MAXIMUM OF ONE SPLICE PER BAR. THE LENGTH OF LAP IS 20 INCHES.

TACK WELD DOWEL BARS TO THE BASKETS ON ALTERNATE ENDS.

(1) THE CONTRACTOR MAY USE NO. 4 BARS SPACED AT 2' - 0 " C - C IN BOTH THE LONGITUDINAL AND TRANSVERSE DIRECTIONS FOR TOP REINFORCEMENT AS AN ALTERNATIVE TO THE WELDED WIRE FABRIC.

(2) THE CONTRACTOR MAY OMIT THE BARS BETWEEN REINFORCED SLABS WHERE SLAB REINFORCEMENT BARS EXTEND ACROSS THE CENTERLINE OR REFERENCE LINE.

(3) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING AN HMA PAVEMENT.

(4) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.

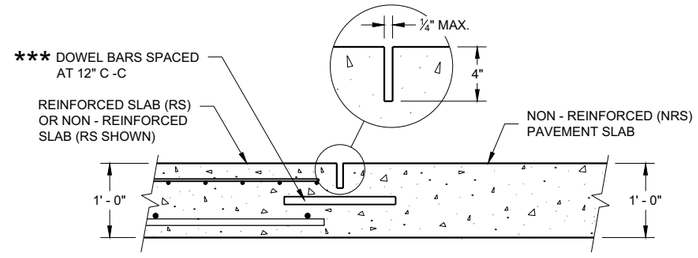
(5) PLACE EXPANSION CAP ON THE END OF THE DOWEL THAT IS NOT TACK WELDED TO THE BASKET. DO NOT FORCE DOWEL BAR PAST THE DOWEL STOP.

(6) EXTEND EXPANSION JOINT THROUGH ANY ADJACENT TIED CONCRETE.

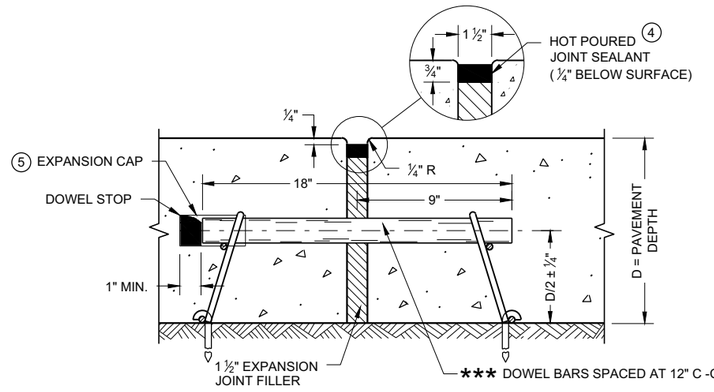
(A) STANDARD CONTRACTION JOINT NORMAL TO ℄ OR ℞.

(B) STANDARD LONGITUDINAL JOINT WITH TIE BARS.

(C) 1 ½" EXPANSION JOINT WITH DOWEL BARS NORMAL TO ℄ OR ℞ .



SECTION D - D
CONTRACTION JOINT



EXPANSION JOINT DETAIL

CONCRETE PAVEMENT APPROACH SLAB

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

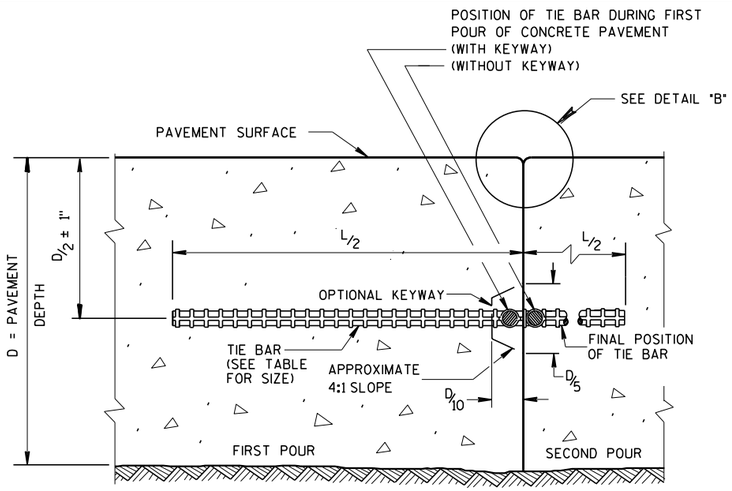
APPROVED
November 2018
DATE

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

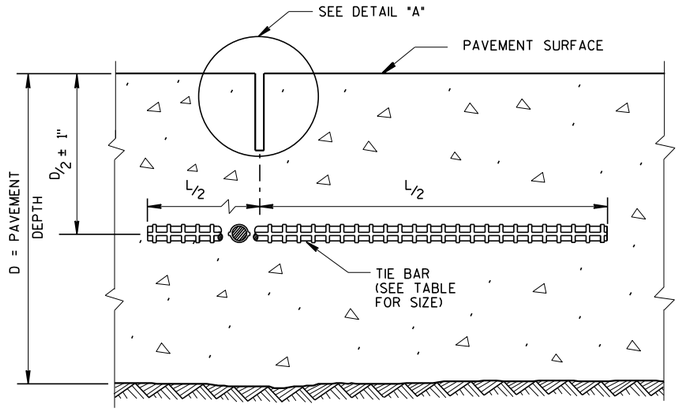
FHWA

6

SDD 13B02 - 09a



CONSTRUCTION JOINT



SAWED JOINT

GENERAL NOTES

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

(2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.

PLAN VIEW

SECTION A-A

LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT

DETAIL "A"

DETAIL "B"

DETAIL "C"

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

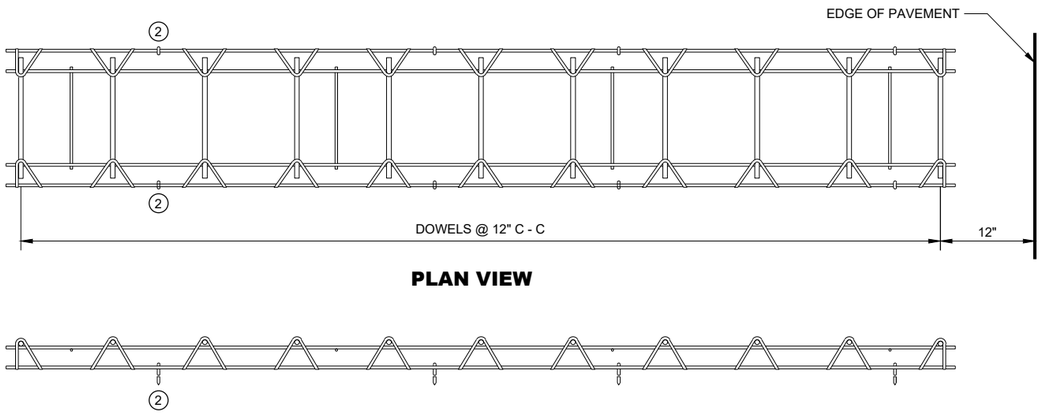
PLAN VIEW
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018
DATE
/S/ Peter Kemp, P.E.
PAVEMENT SUPE
FHWA

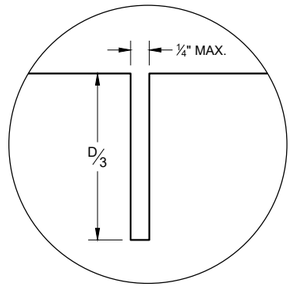
6
S.D.D. 13 C 1-19



PLAN VIEW

SIDE VIEW

CONTRACTION JOINT DOWEL ASSEMBLY (1)



JOINT DETAIL

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

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

FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES FROM AND A MAXIMUM OF 18 INCHES FROM THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO THE CONTRACTION JOINTS.

(1) OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTION CONTRACTION JOINTS.

(2) SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.

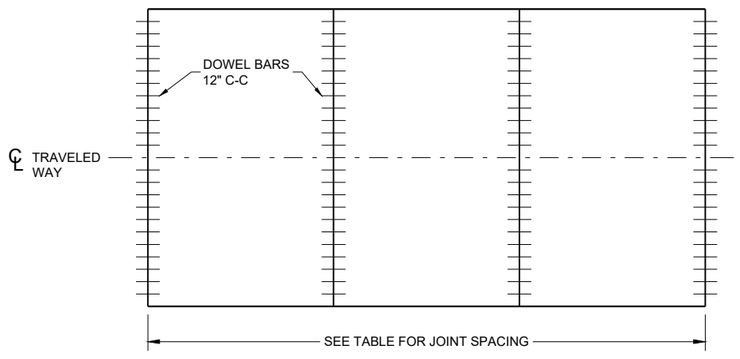
(3) FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A ¼" RADIUS AT FORMED JOINTS.

(4) PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.

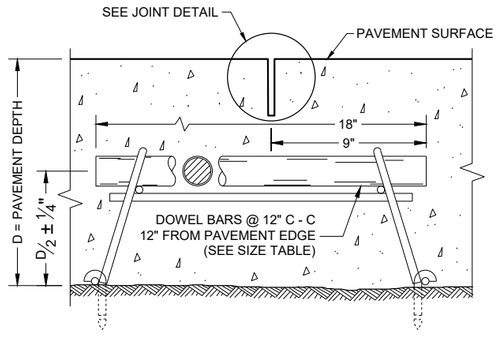
(5) INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C - C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO THE "DRILLED DOWEL BAR CONSTRUCTION JOINT" DETAIL.

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

(7) ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS ⅛" GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.



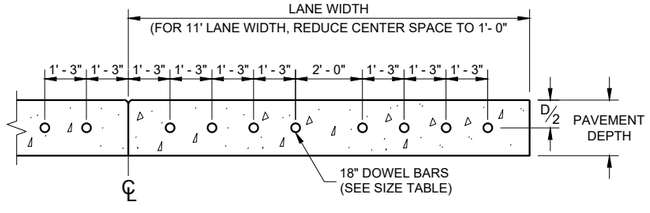
CONTRACTION JOINT LOCATIONS



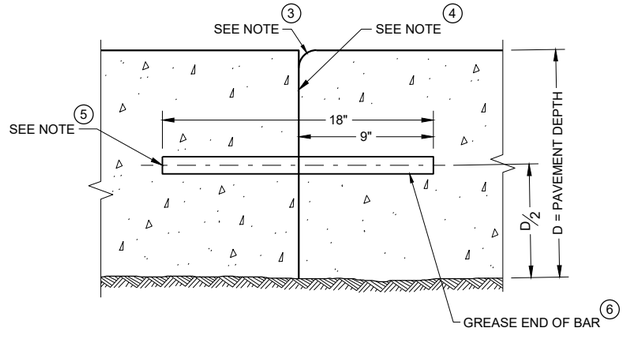
DOWELED CONTRACTION JOINT

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8" & ABOVE	1 ¼"	15'



DRILLED DOWEL BAR CONSTRUCTION JOINT (7)



TRANSVERSE CONSTRUCTION JOINT

URBAN DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

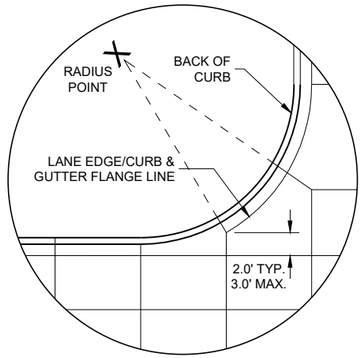
APPROVED
November 2022
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVIS

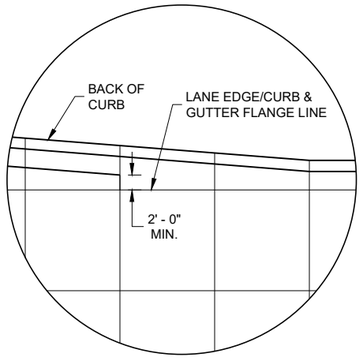
FHWA

6

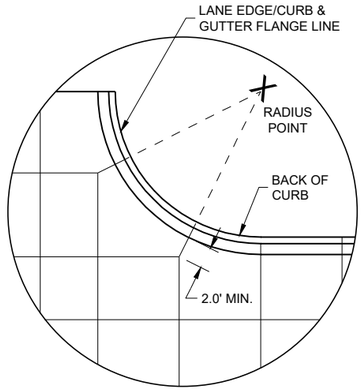
SDD 13C13 - 11



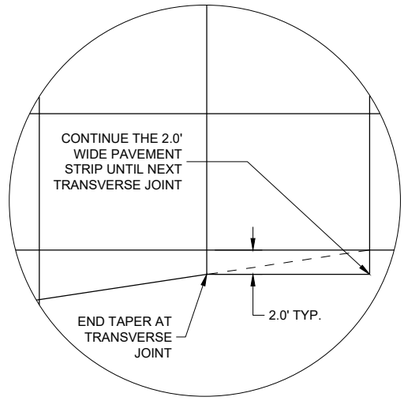
DETAIL "A"



DETAIL "B"



DETAIL "C"



DETAIL "D"

GENERAL NOTES

THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.

ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.

CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.

ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.

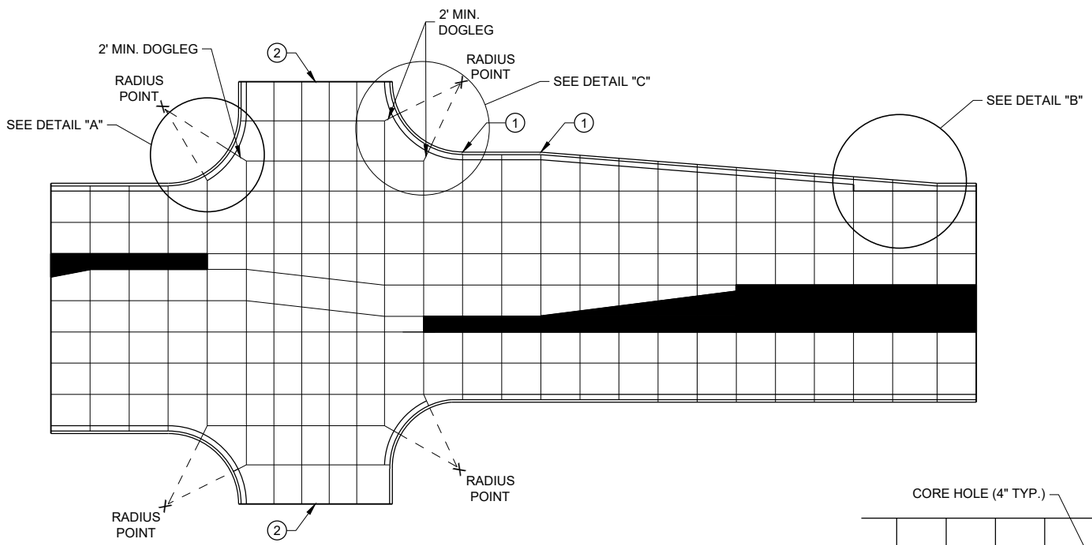
AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.

(2) CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH EDGE OF RADIUS.

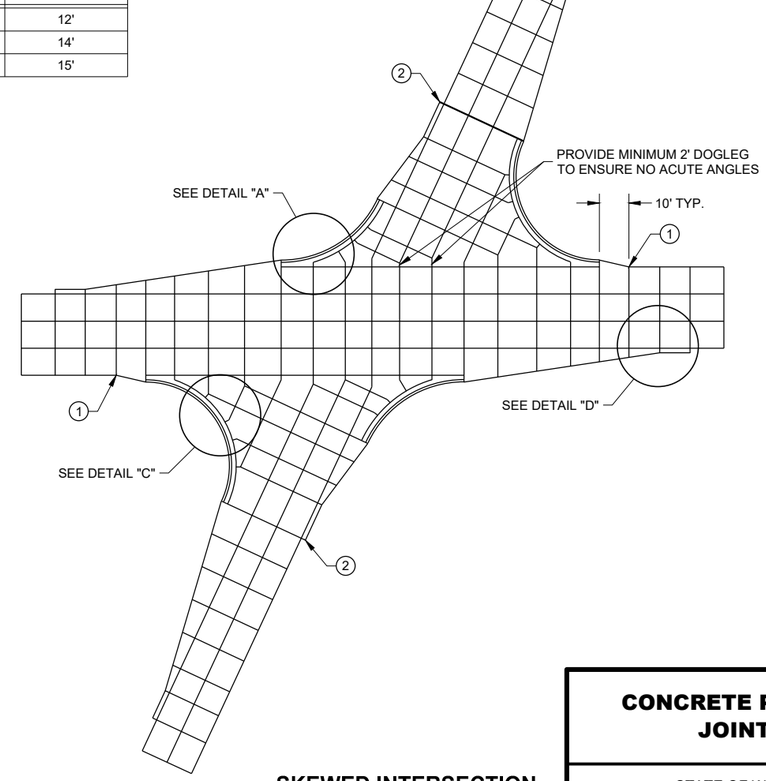
(3) THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



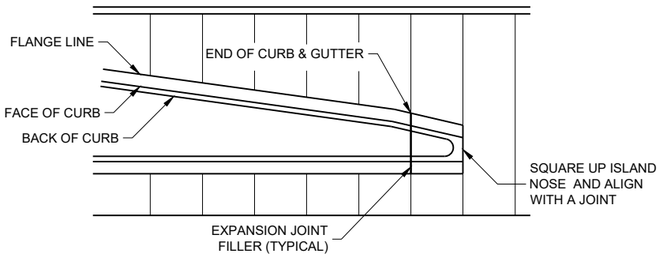
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

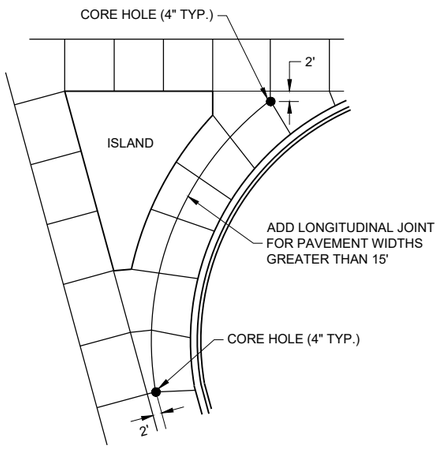
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6 ½"	12'
7", 7 ½"	14'
8" & ABOVE	15'



SKEWED INTERSECTION



APPROACH TO MEDIAN



LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 13C18 - 08a

6

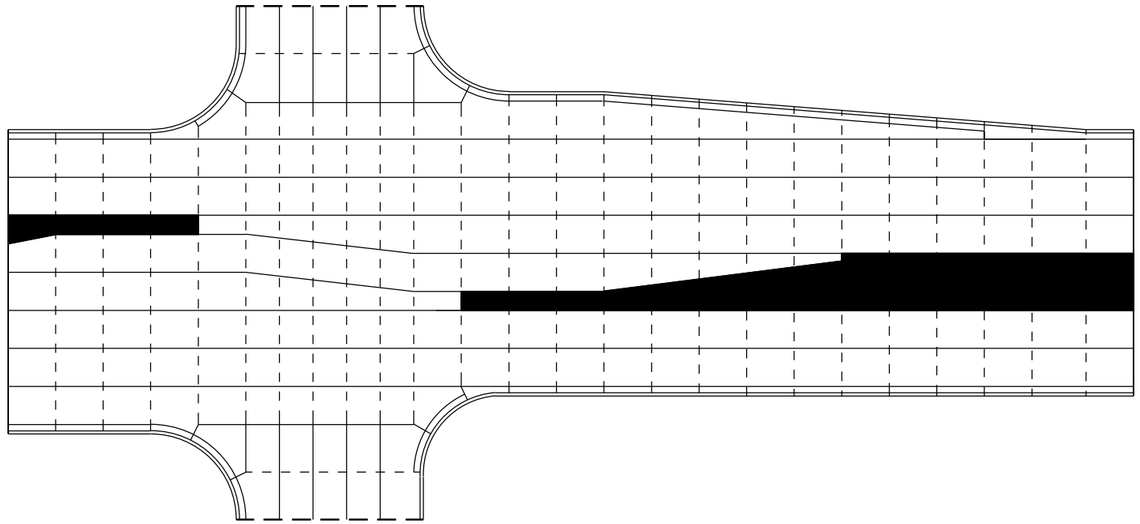
SDD 13C18 - 08a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

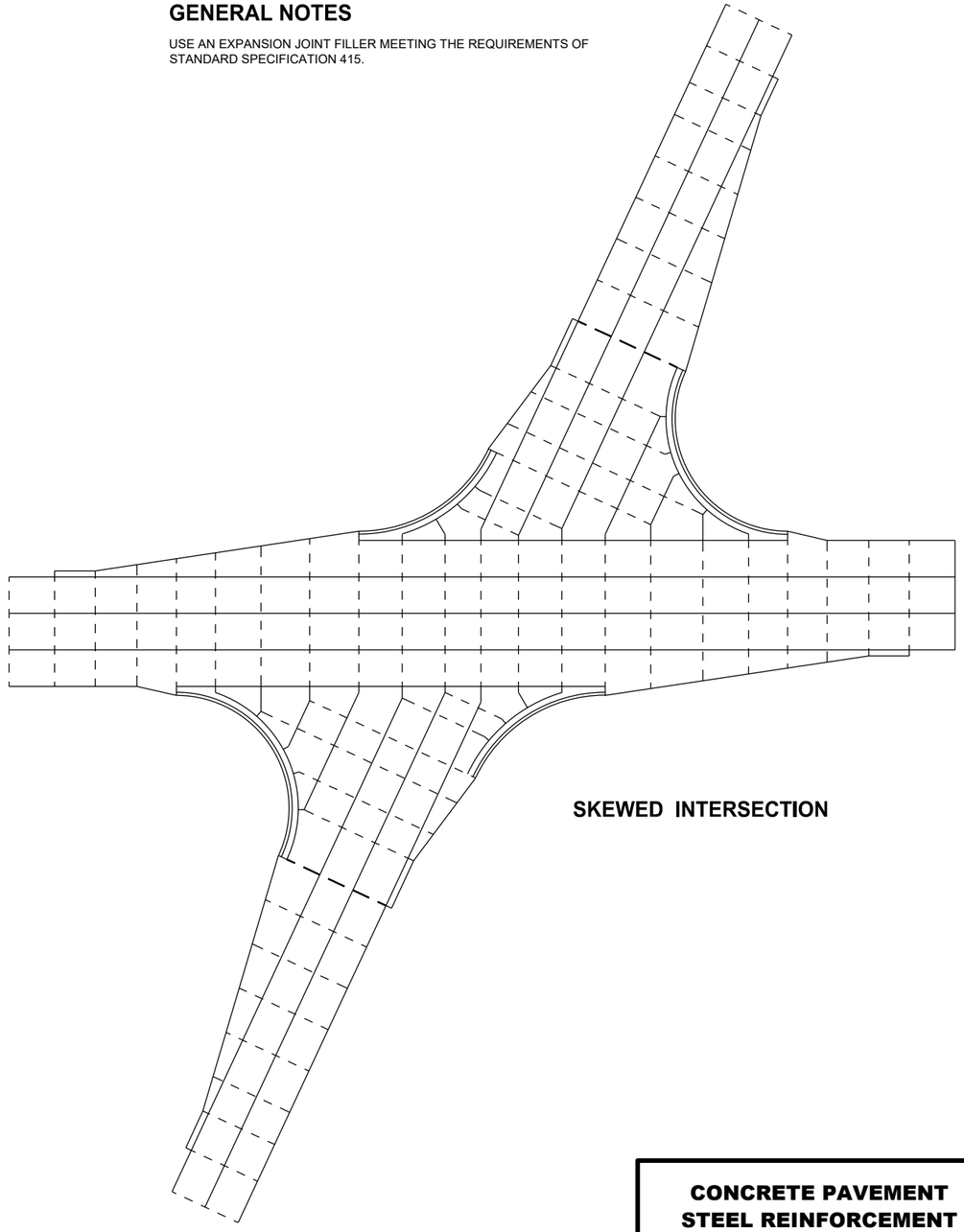
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

6

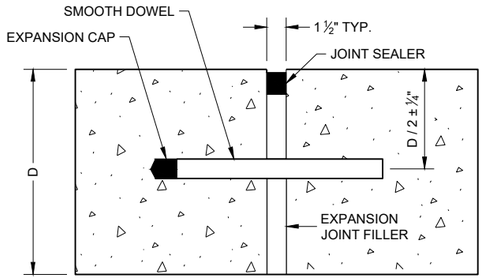
SDD 13C18 - 08b

CONCRETE PAVEMENT STEEL REINFORCEMENT

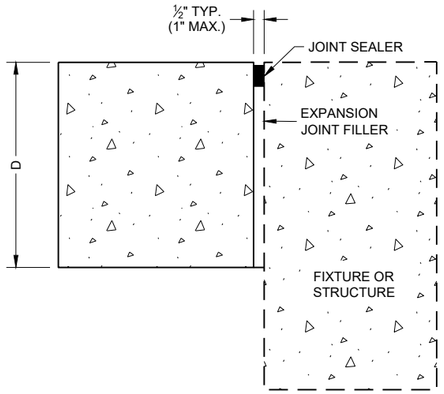
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA

6

SDD 13C18 - 08b



DOWELED TRANSVERSE (1)



UNTIED - LONGITUDINAL

EXPANSION JOINTS

TIE BAR TABLE

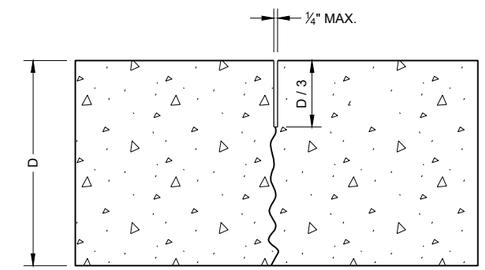
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

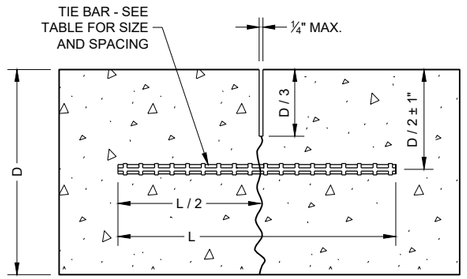
** CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

GENERAL NOTES

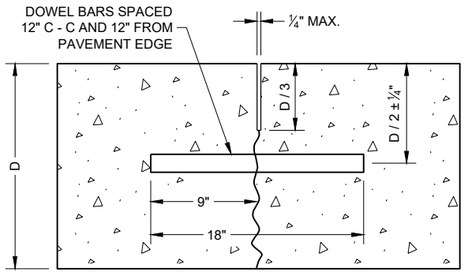
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATETHE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH SDD 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.
4. CONSTRUCTION JOINTS CAN BE FORMED OR SAWED.
5. IF JOINT IS FORMED, PROVIDE A ¼" RADIUS.
6. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



UNDOWELED TRANSVERSE

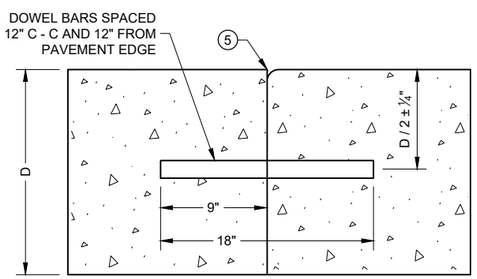


TIED LONGITUDINAL

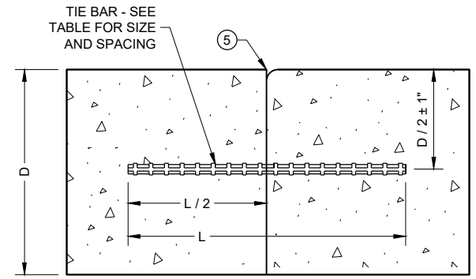


DOWELED TRANSVERSE

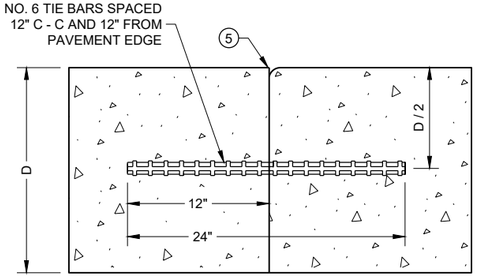
CONTRACTION JOINTS (2)



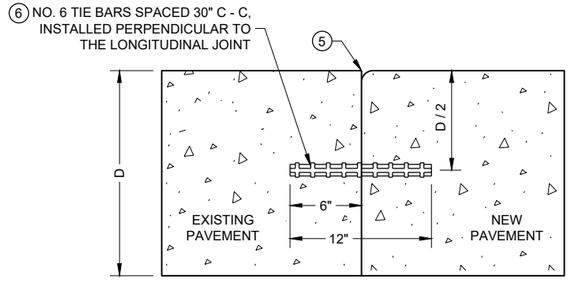
DOWELED TRANSVERSE (3)



TIED LONGITUDINAL



TIED TRANSVERSE (3)
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



TIED LONGITUDINAL TO EXISTING

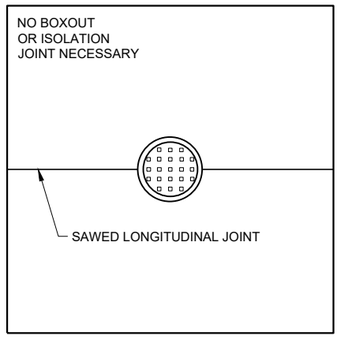
CONSTRUCTION JOINTS (4)

CONCRETE PAVEMENT JOINT TYPES

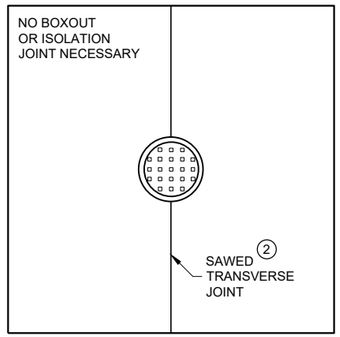
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

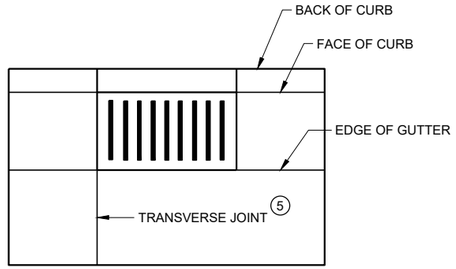
SDD 13C18 - 08c



MANHOLE WITH LONGITUDINAL JOINT



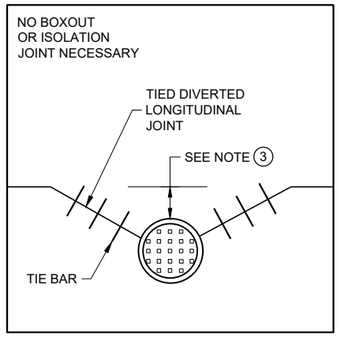
MANHOLE WITH TRANSVERSE JOINT



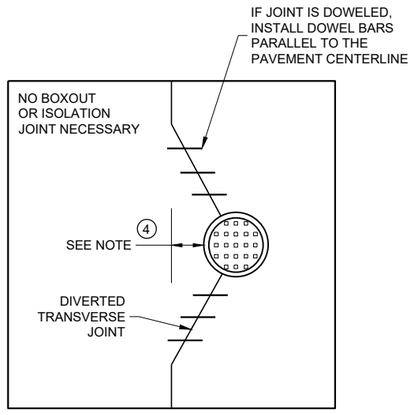
INLET WITH TRANSVERSE JOINT

GENERAL NOTES

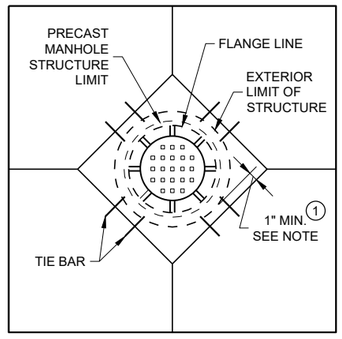
1. USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1 FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
2. ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
3. IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDINAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
4. IF THE DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS LESS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
5. ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT



DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS

CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVIS

FHWA

6

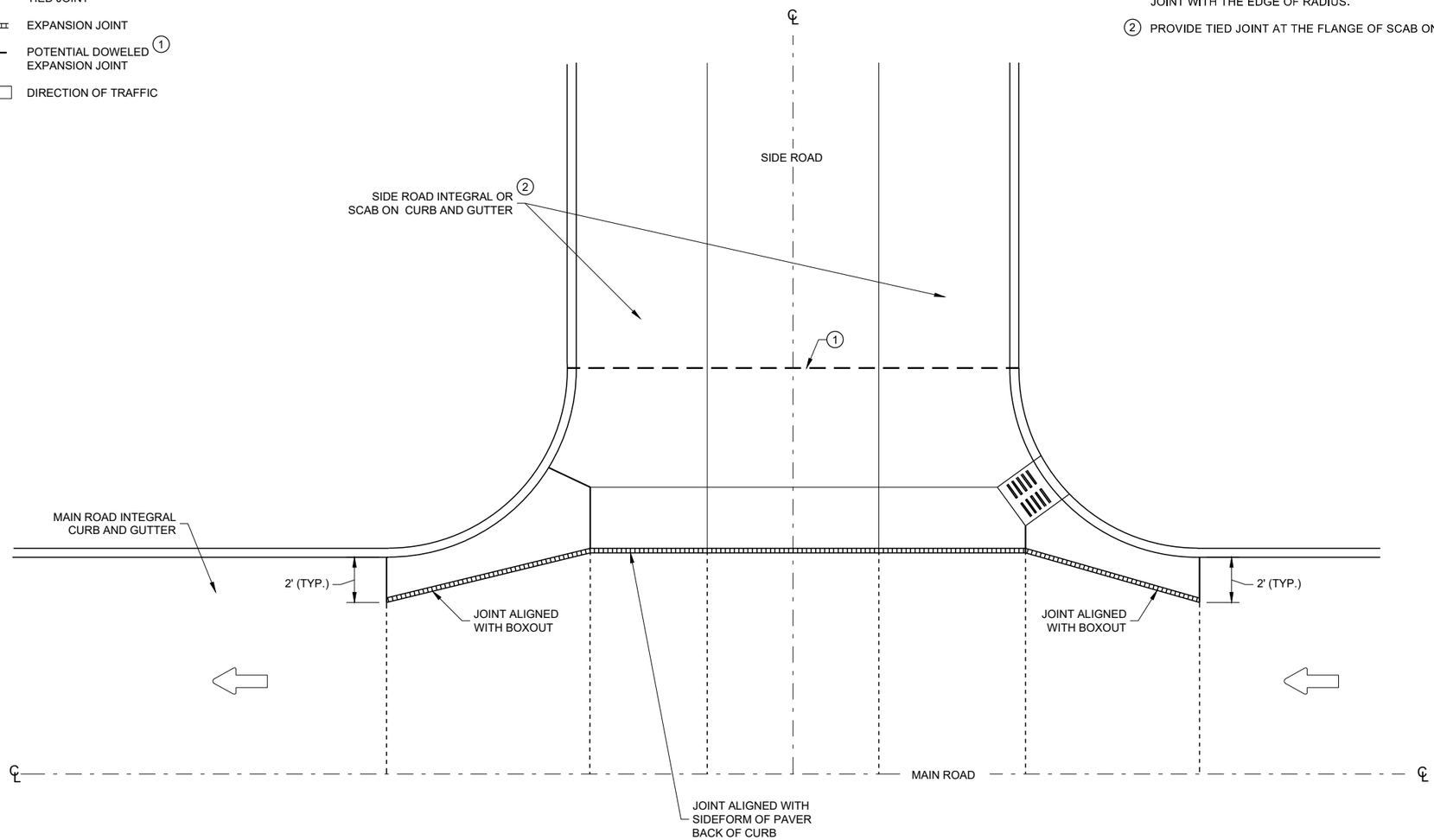
SDD13C18 - 08d

6

SDD13C18 - 08d

LEGEND

- DOWELED JOINT
- TIED JOINT
- EXPANSION JOINT
- POTENTIAL DOWELED EXPANSION JOINT (1)
- DIRECTION OF TRAFFIC



GENERAL NOTES

(1) CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH THE EDGE OF RADIUS.

(2) PROVIDE TIED JOINT AT THE FLANGE OF SCAB ON CURB IF SCAB ON CURB AND GUTTER IS USE.

INTERSECTION BOXOUT FOR INTEGRAL CURB AND GUTTER

CONCRETE PAVEMENT INTERSECTION BOXOUT FOR INTEGRAL CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVIS

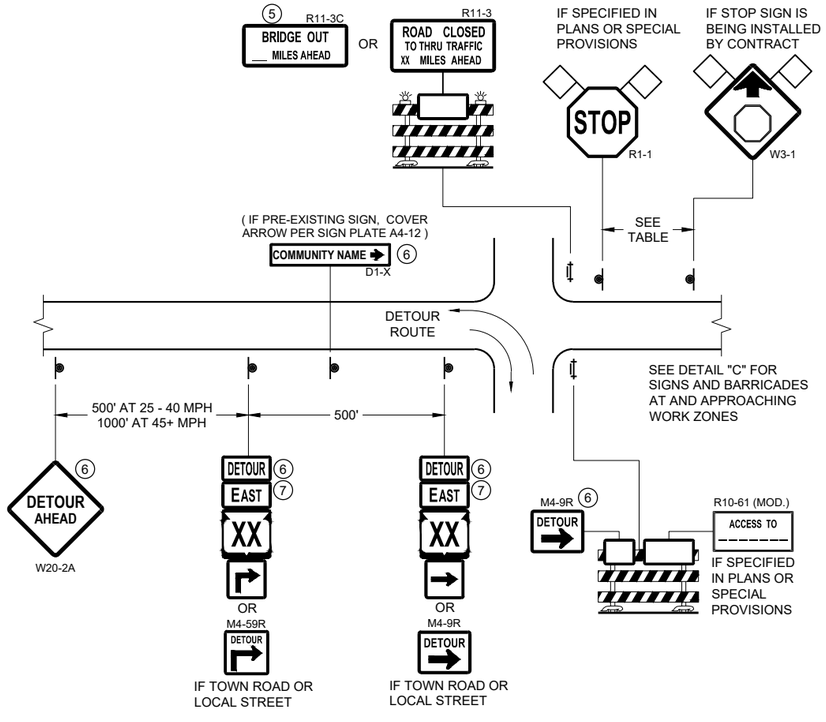
FHWA

6

SDD 13C18 - 08f

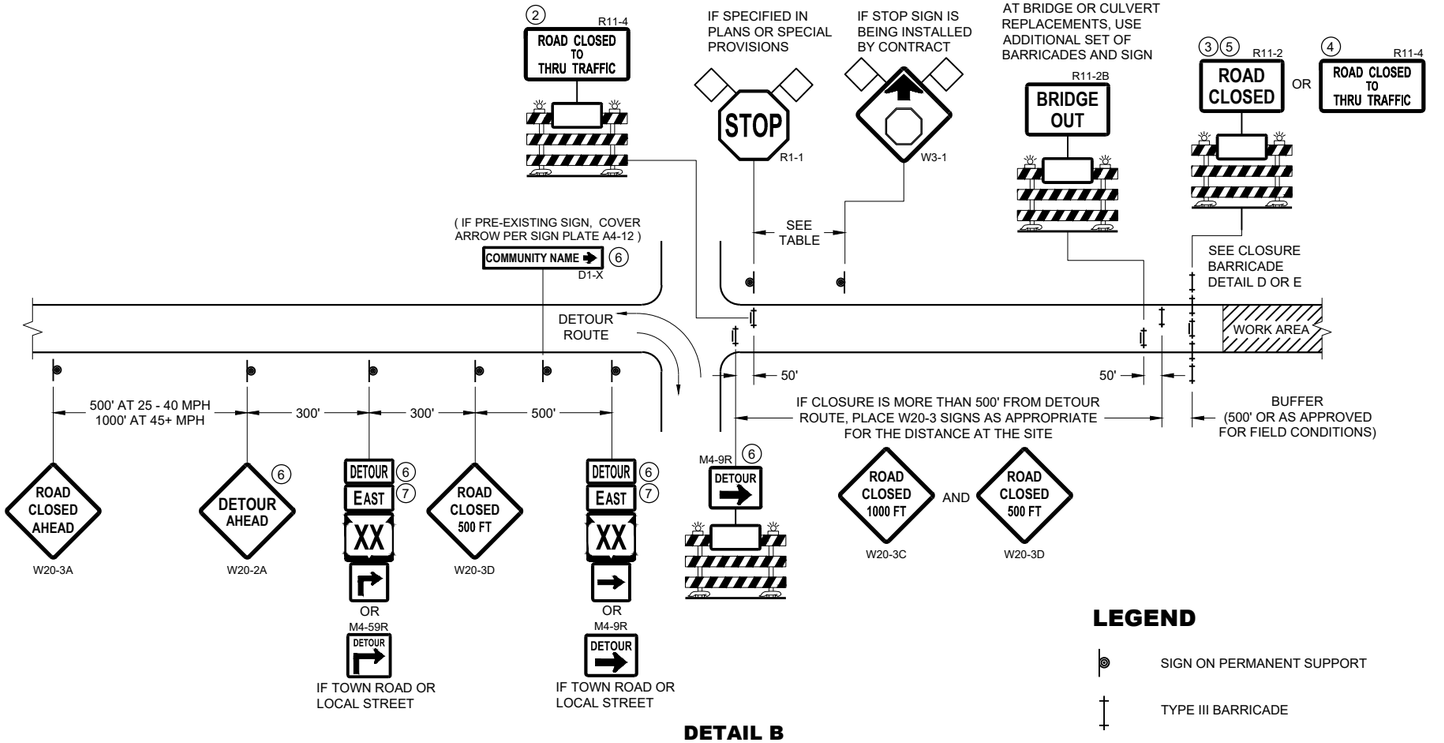
6

SDD 13C18 - 08f



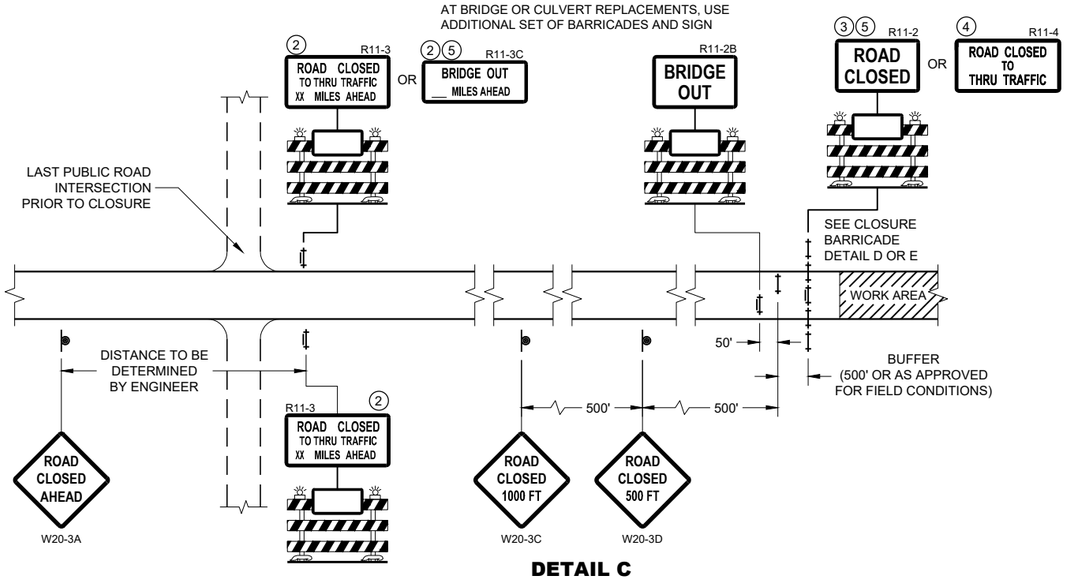
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

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



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

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



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "b"
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)
- DETOUR — M4 - 8
- EAST — M3 - X
- XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A
- M05 - 1 OR M06 - 1

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

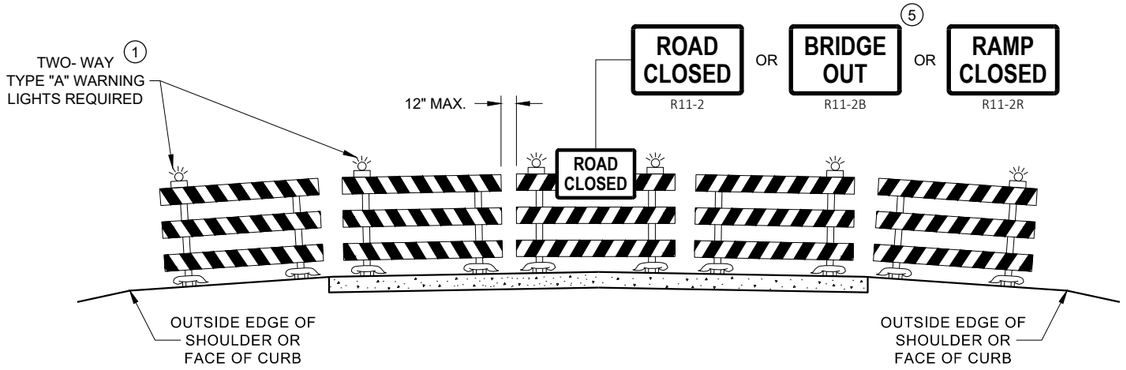
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

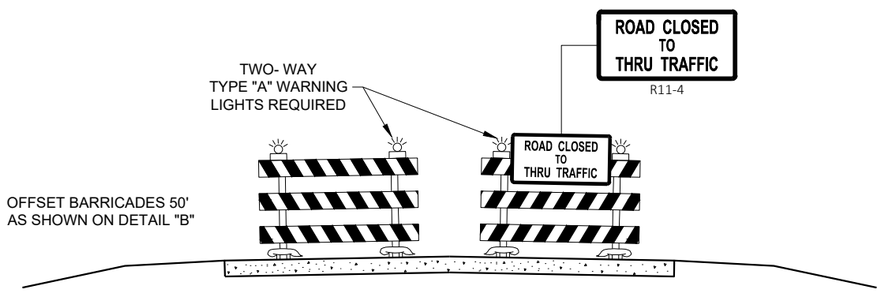
FHWA

SDD 15C02 - 09a

SDD 15C02 - 09a



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

6

SDD 15C02 - 09b

6

SDD 15C02 - 09b

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 / EAST — M4 - 8, 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

M3-X 24" X 12"
M1-X 24" X 24"
DETOUR AHEAD
W20-2A
USE ON STATE TRUNK, U.S. OR INTERSTATE HIGHWAYS, OR AS SPECIFIED IN THE CONTRACT

500' AT 25-40 MPH
1000' AT 45+ MPH

500'

DETOUR EAST XX *

D1-X COMMUNITY NAME *
(IF PRE-EXISTING SIGN, COVER ARROW PER SIGN PLATE A4-12)

M4-8a END DETOUR WEST XX *

DETOUR EAST XX / WEST XX

DETOUR ROUTE

WORK AREA

DETOUR EAST XX

WEST XX — OR M4-9L DETOUR ** — IF TOWN ROAD OR LOCAL STREET

500'

DETOUR NEXT X MILES * G20-51

DETOUR WEST XX * — OR M4-59L DETOUR ** — IF TOWN ROAD OR LOCAL STREET

MATCH POINT

* M4-59L DETOUR ** OR DETOUR EAST XX *
IF TOWN ROAD OR LOCAL STREET

D1-X COMMUNITY NAME *
(IF PRE-EXISTING SIGN, COVER ARROW PER SIGN PLATE A4-12)

500'

M4-9L DETOUR ** OR DETOUR EAST XX
IF TOWN ROAD OR LOCAL STREET

DETOUR WEST XX

DETOUR WEST XX — OR M4-9R DETOUR ** — IF TOWN ROAD OR LOCAL STREET

DETOUR WEST XX * — OR M4-59R DETOUR ** * — IF TOWN ROAD OR LOCAL STREET

500'

DETOUR ROUTE

500' AT 25 - 40 MPH
1000' AT 45+ MPH

500'

M3-X 24" X 12"
M1-X 24" X 24"
DETOUR AHEAD
W20-2A
USE ON STATE TRUNK, U.S. OR INTERSTATE HIGHWAYS, OR AS SPECIFIED IN THE CONTRACT

DETOUR EAST XX *

D1-X COMMUNITY NAME *
(IF PRE-EXISTING SIGN, COVER ARROW PER SIGN PLATE A4-12)

DETOUR EAST XX

500'

DETOUR EAST XX

D1-X COMMUNITY NAME *
(IF PRE-EXISTING SIGN, COVER ARROW PER SIGN PLATE A4-12)

DETOUR EAST XX *

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

500' AT 25 - 40 MPH
1000' AT 45+ MPH

DETOUR EAST XX *

M3-X 24" X 12"
M1-X 24" X 24"
DETOUR AHEAD
W20-2A
USE ON STATE TRUNK, U.S. OR INTERSTATE HIGHWAYS, OR AS SPECIFIED IN THE CONTRACT

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

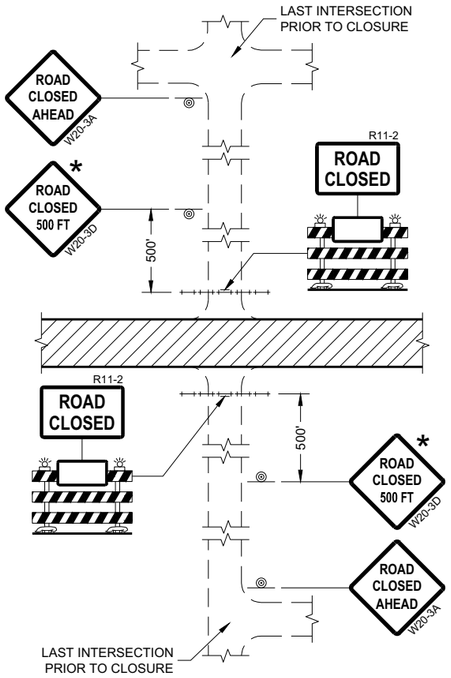
APPROVED
May 2023
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

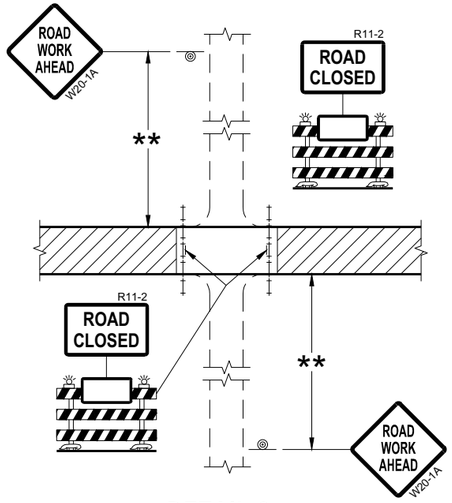
FHWA

6

SDD 15C02 - 09c



DETAIL 1
(NO ACCESS TO PROJECT)



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

GENERAL NOTES

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

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

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

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

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

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

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

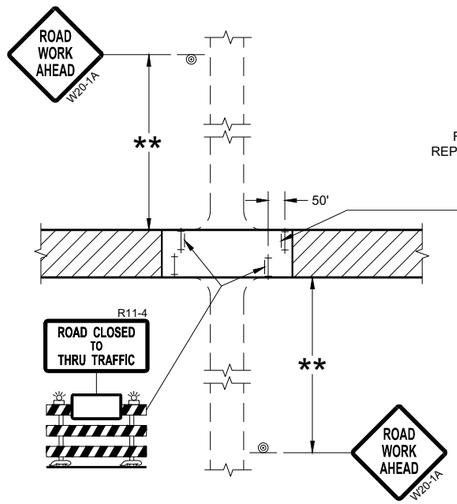
TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

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

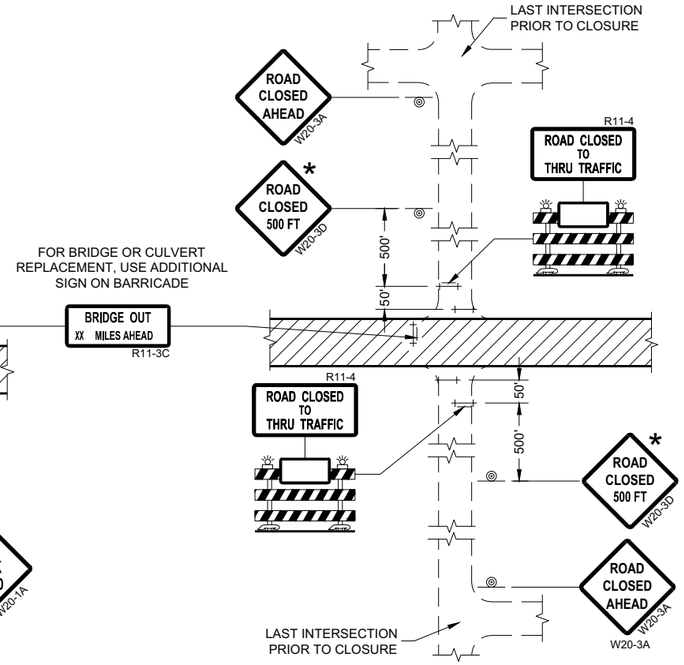
ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

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

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



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



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

LEGEND

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

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

SDD 15C03 - 05

GENERAL NOTES

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

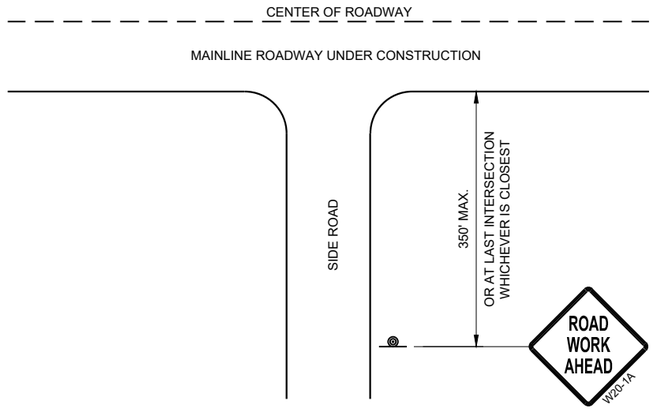
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"X36" SIGNS MAY BE USED INSTEAD OF 48" X 48" SIGNS.

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

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

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FEET" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



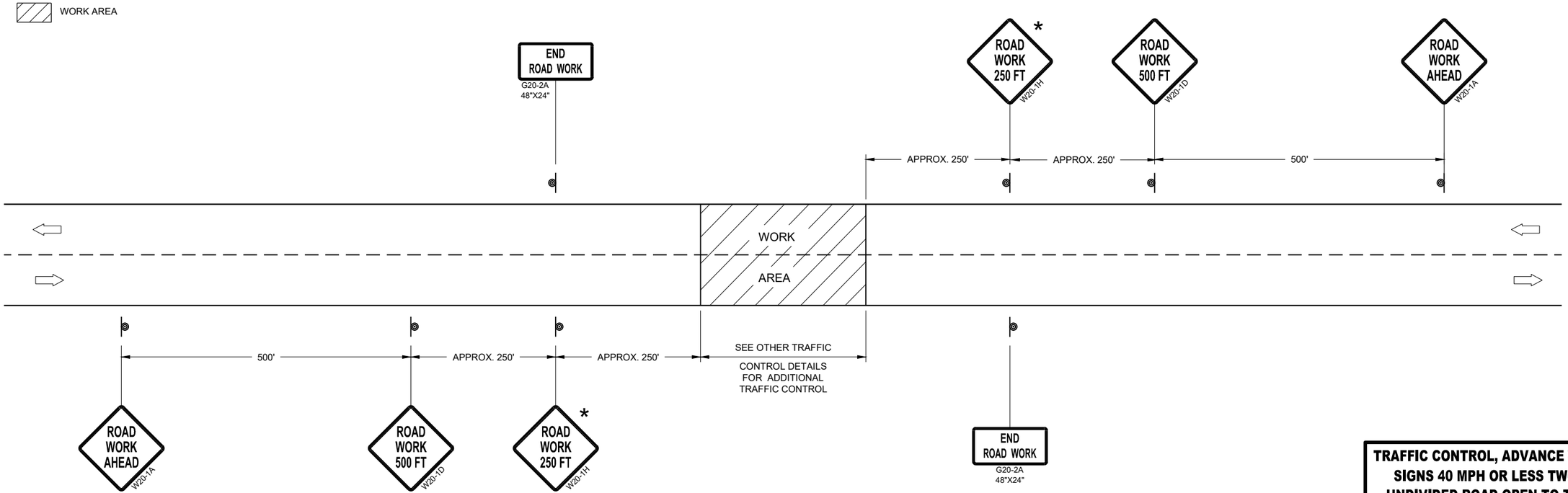
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40MPH OR LESS

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

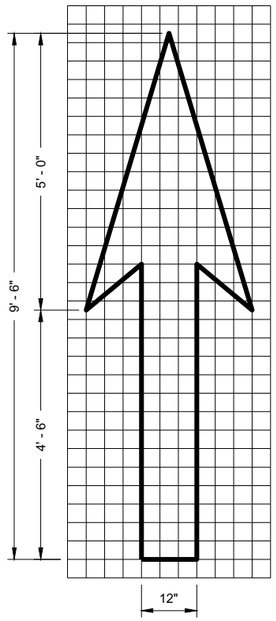
APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

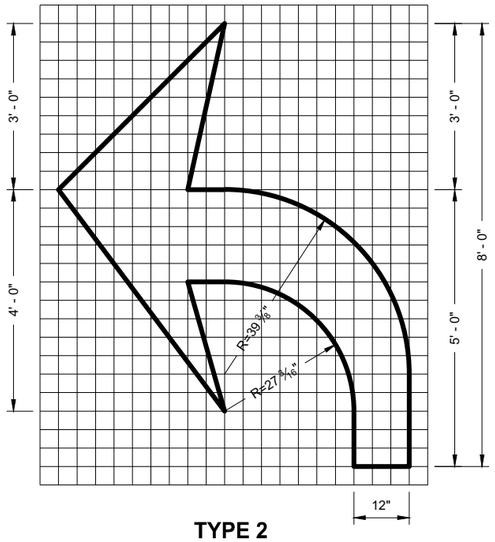
FHWA

6

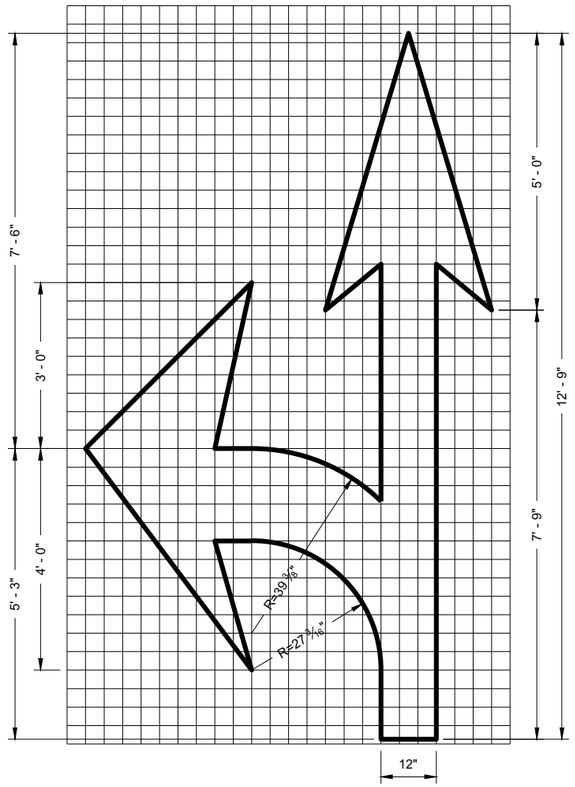
SDD 15C05 - 05



TYPE 1



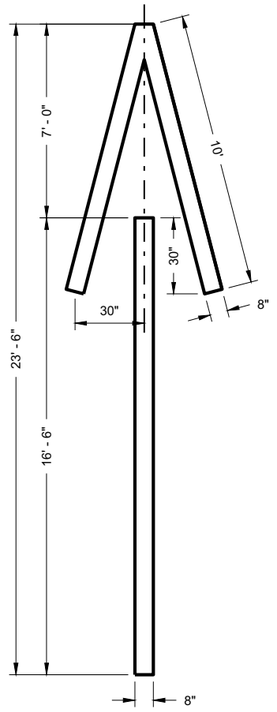
TYPE 2



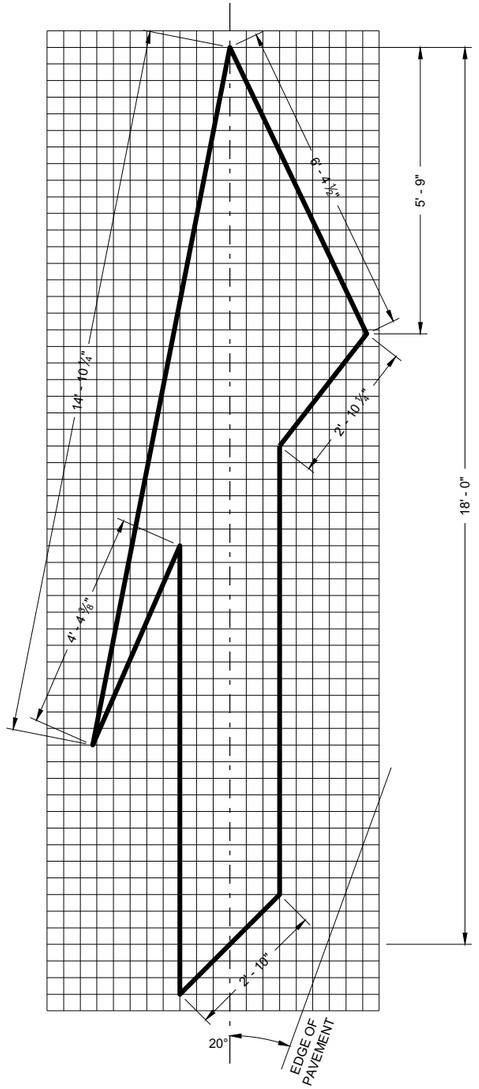
TYPE 3

GENERAL NOTES

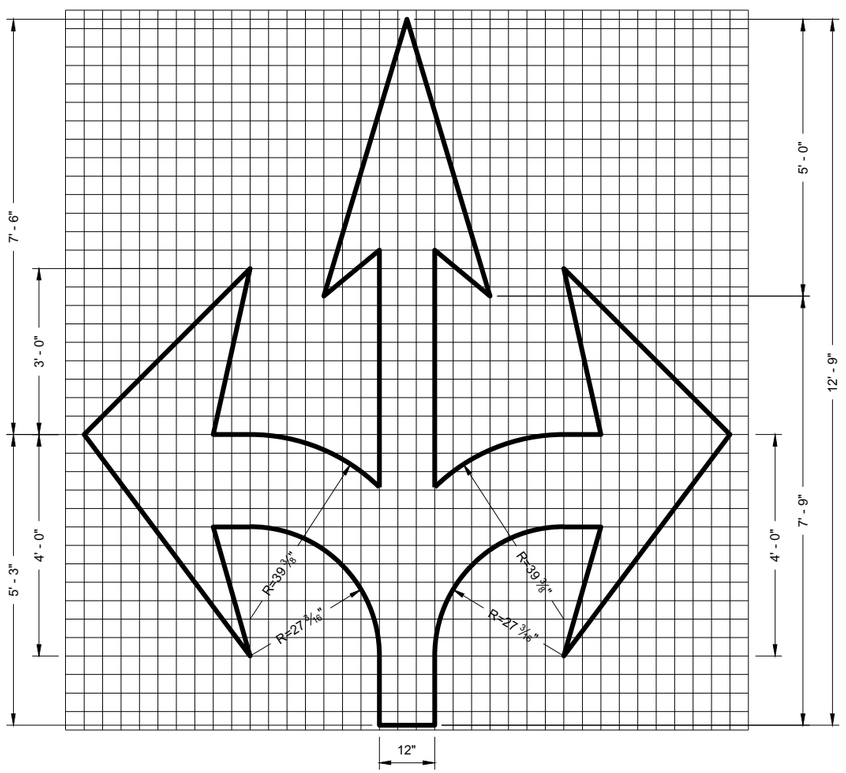
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



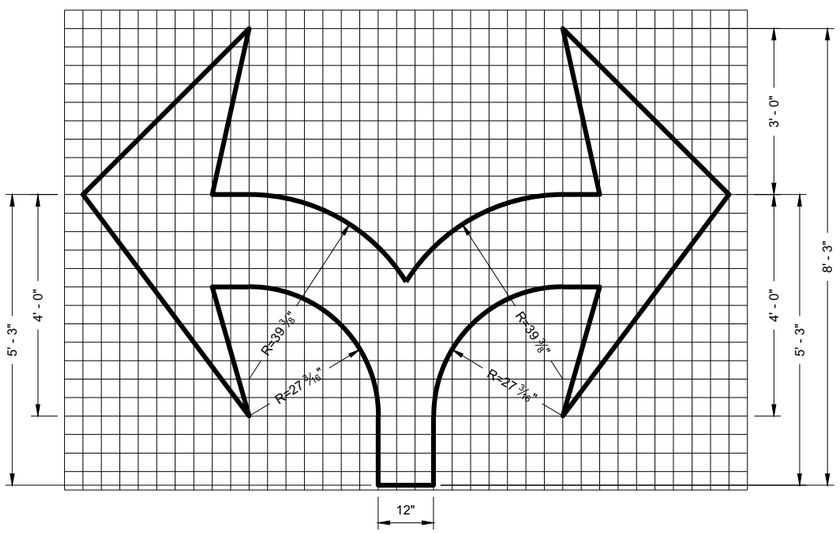
TYPE 4



TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

FHWA

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.

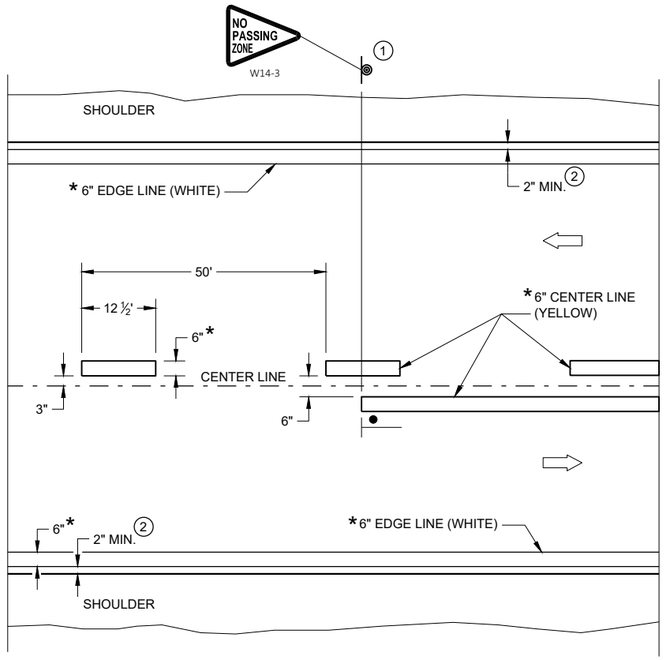
* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

LEGEND

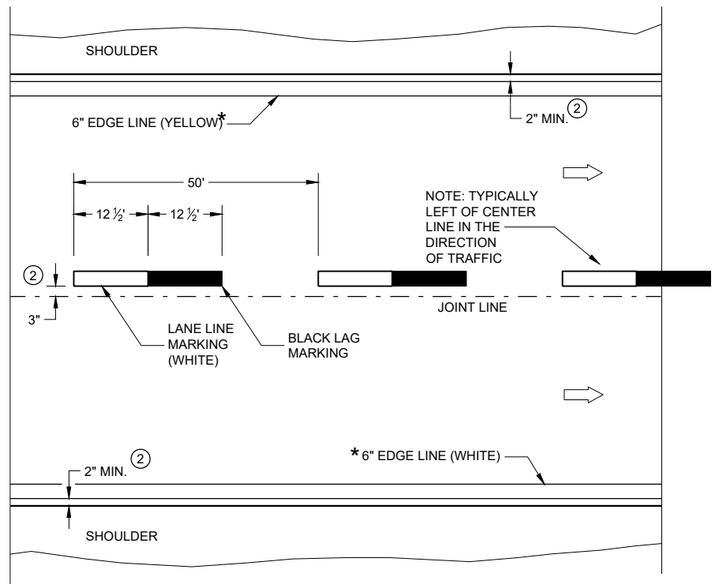
"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

PERMANENT LONGITUDINAL PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2023
DATE

/S/ Jeannie Silver
STATEWIDE SIGNING AND M ENGINEER

FHWA

6

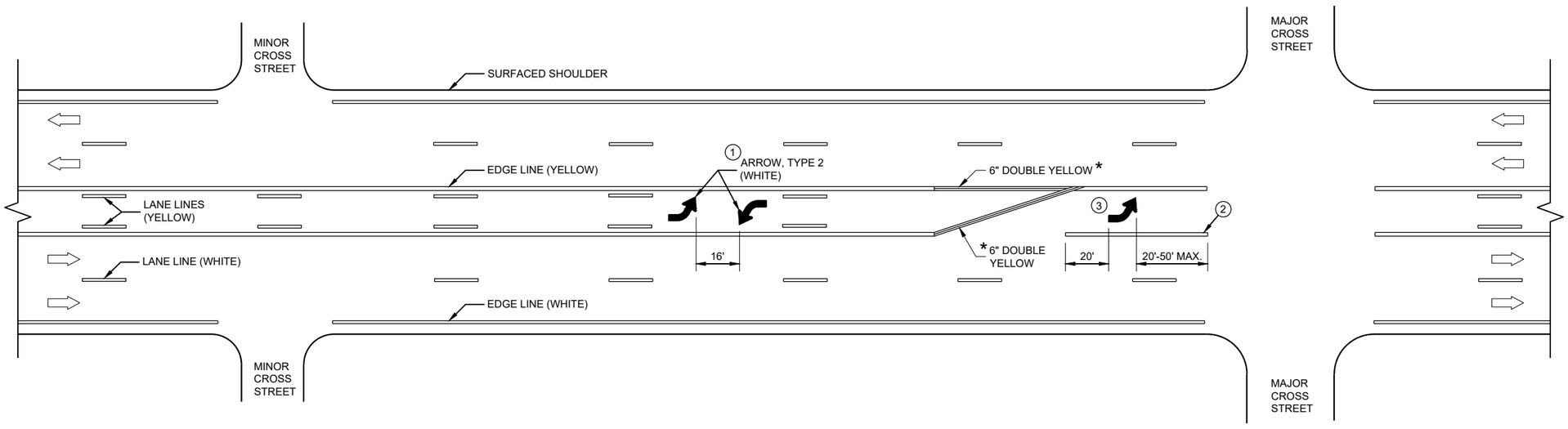
SDD 15C08-23a

GENERAL NOTES

1. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
2. 10" WHITE
3. TURN BAY LENGTH OF LESS THAN 48' DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT.

DIRECTION OF TRAFFIC

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



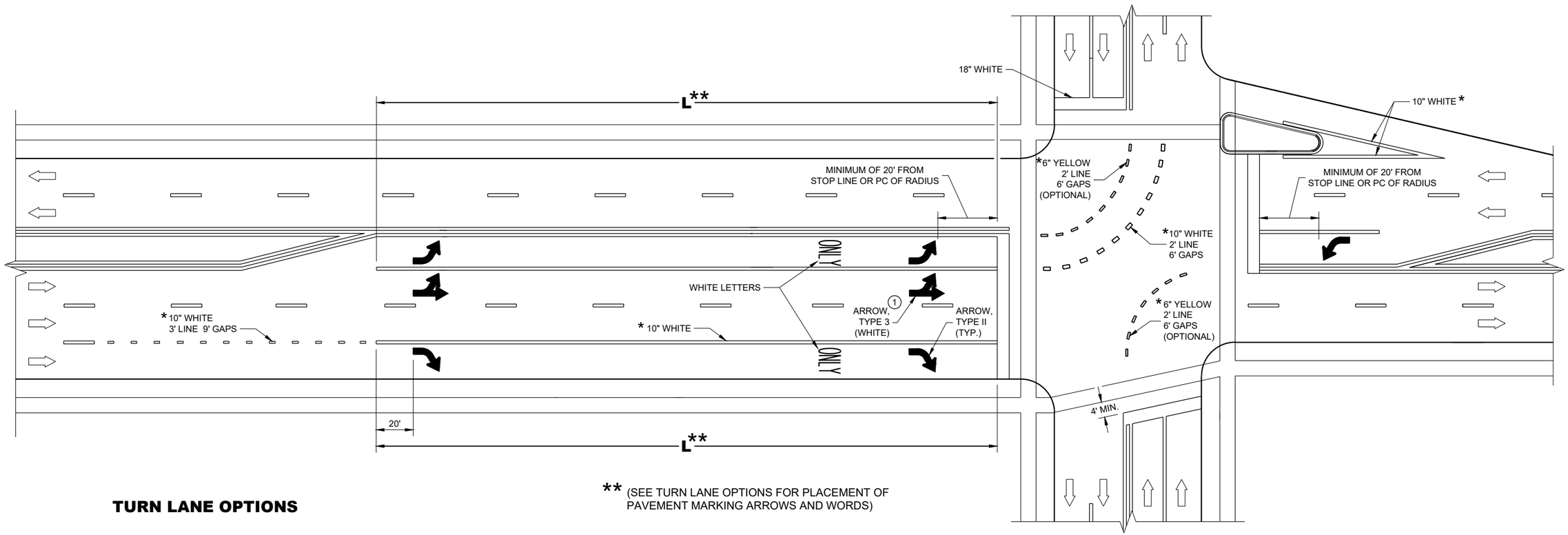
TWO WAY LEFT TURN LANE

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA 171

SDD 15C08-23c

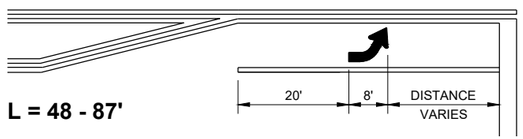
6



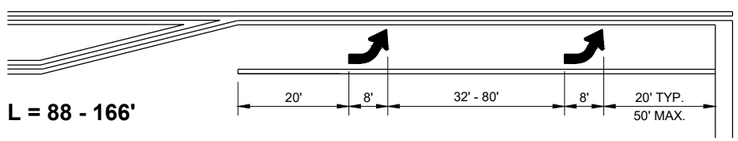
** (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

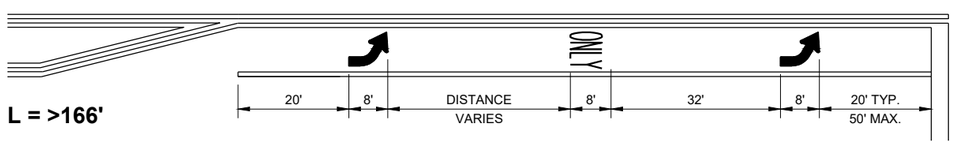
LENGTH OF TURN BAY (**L**) OF 0 - 47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48 - 87'



L = 88 - 166'



L = >166'

GENERAL NOTES

(1) 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

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

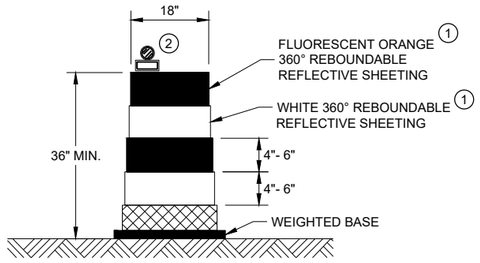
6

SDD 15C08-23d

SDD 15C08-23d

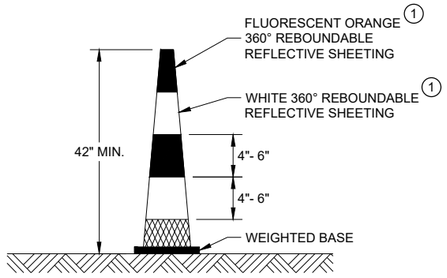
GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



DRUM

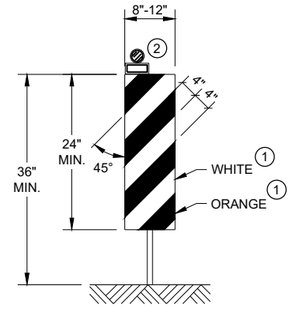
BALLAST WIDTHS
RANGE FROM 24"-36"



42" CONE

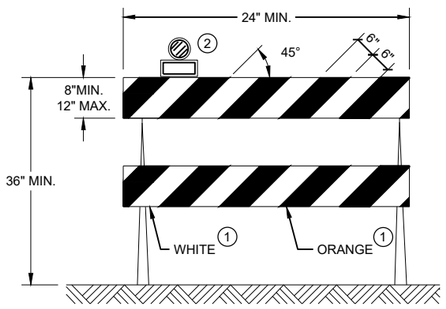
DO NOT USE IN TAPERS
½ SPACING OF DRUMS

BALLAST WIDTHS
RANGE FROM 14"-20"



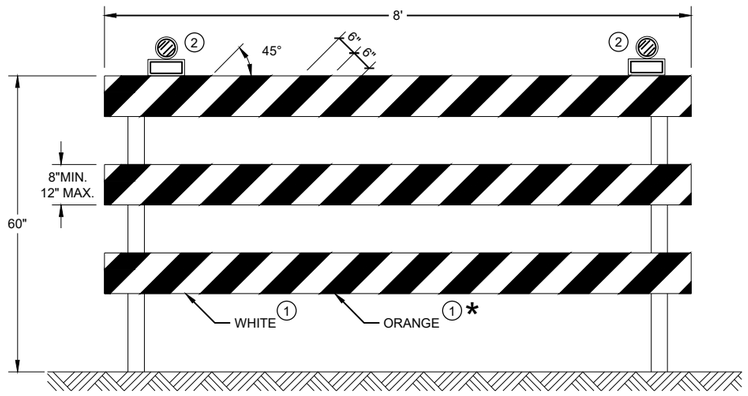
VERTICAL PANEL

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



TYPE II BARRICADE

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



TYPE III BARRICADE

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

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

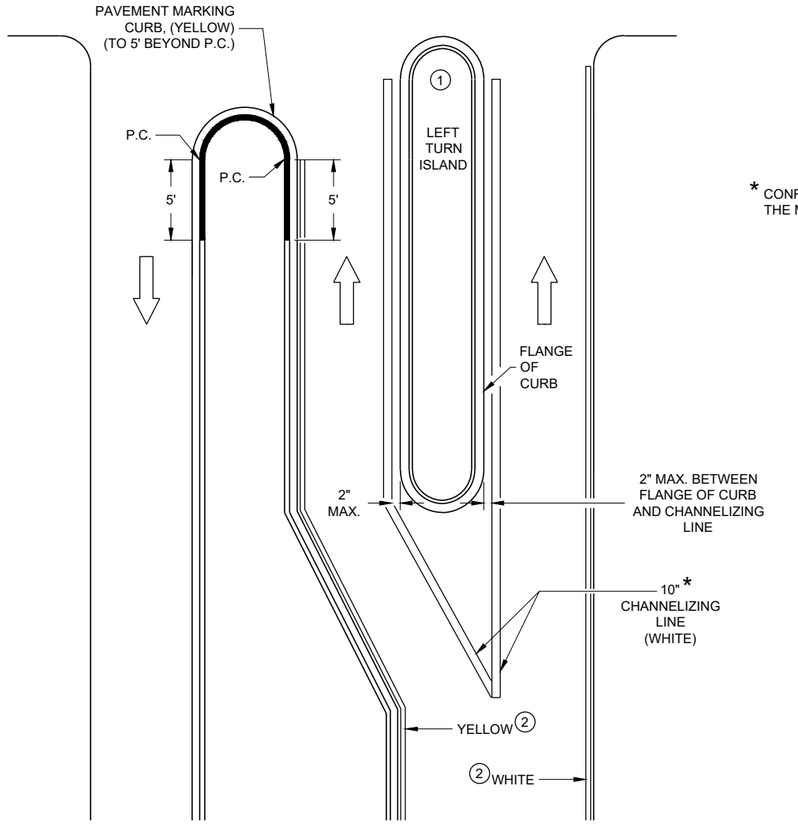
6

SDD 15C11 - 10b

6

SDD 15C11 - 10b

REQUIREMENTS FOR EDGE LINES		
POSTED SPEED	IS THERE CONTINUOUS LIGHTING?	
	YES	NO
≤ 30 MPH	NO	OPTIONAL
35 OR 40 MPH	OPTIONAL	RECOMMENDED
≥ 45 MPH	RECOMMENDED	REQUIRED



* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

LEFT TURN & MEDIAN ISLAND

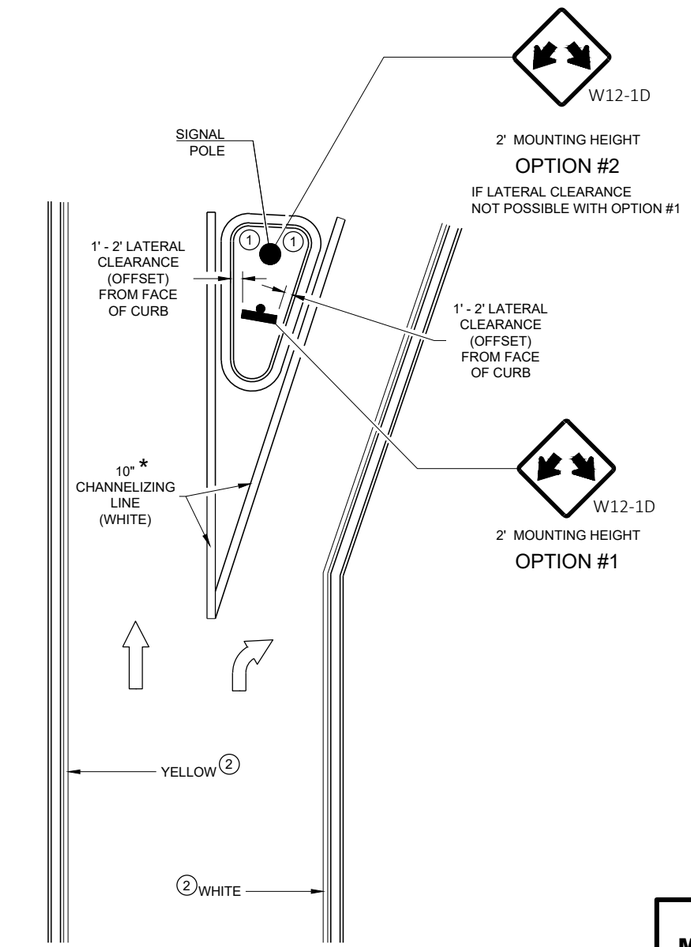
GENERAL NOTES

APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.

SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.

1. MARK CURB NOSES YELLOW.
2. MARK ACCORDING TO TABLE.

DIRECTION OF TRAVEL



RIGHT TURN ISLAND

MEDIAN PAVEMENT MARKINGS, DOUBLE ARROW WARNING SIGN PLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

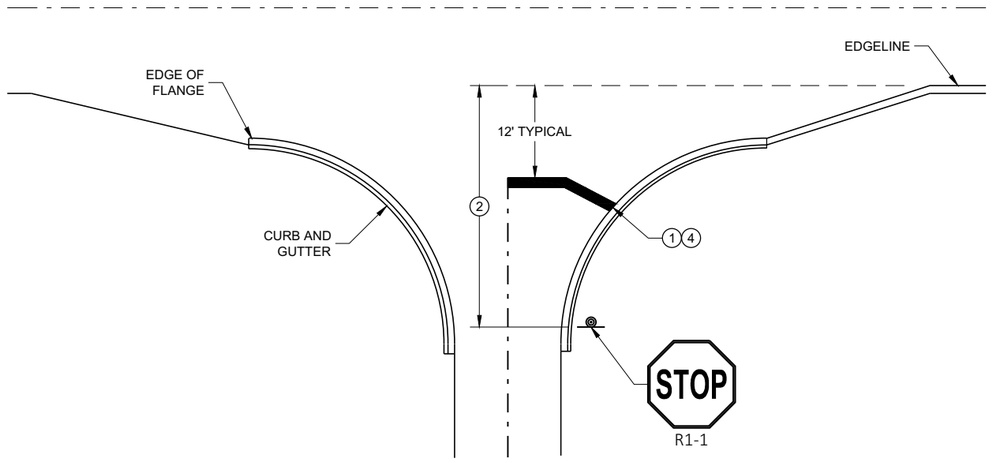
FHWA

6
SDD 15C18-08c

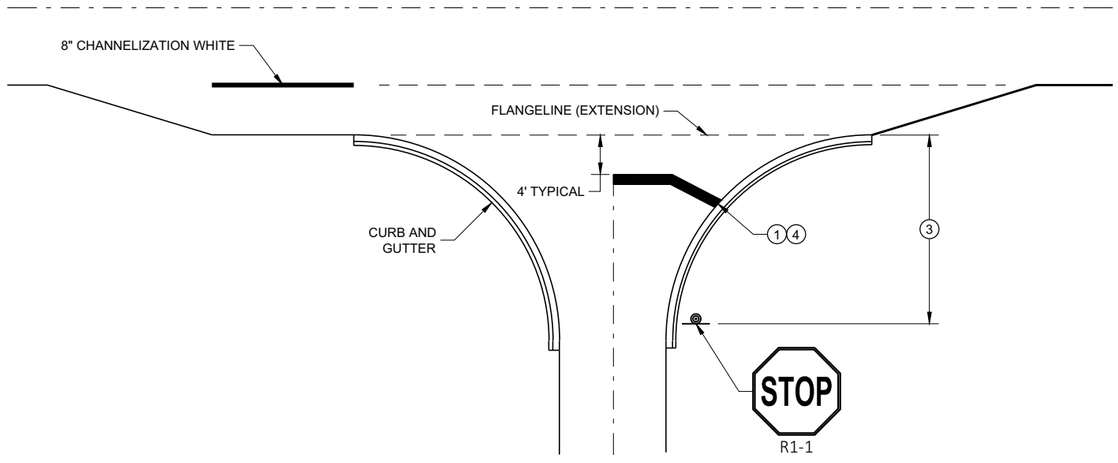
GENERAL NOTES

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

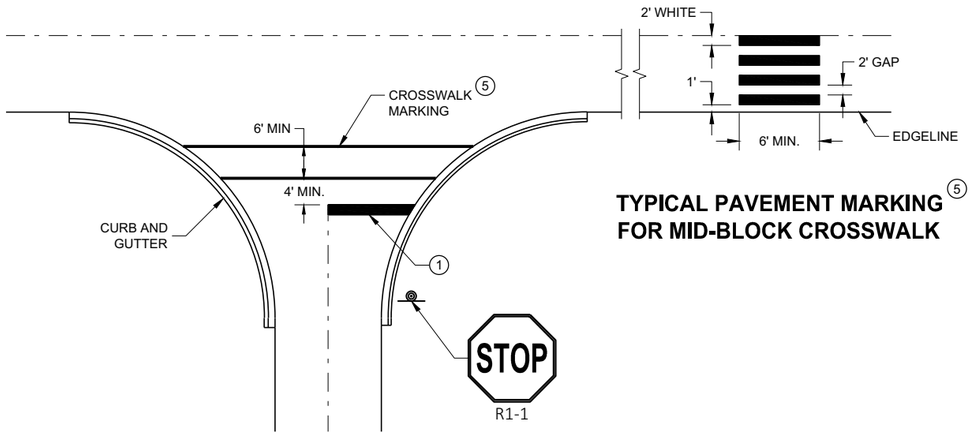
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE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



TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

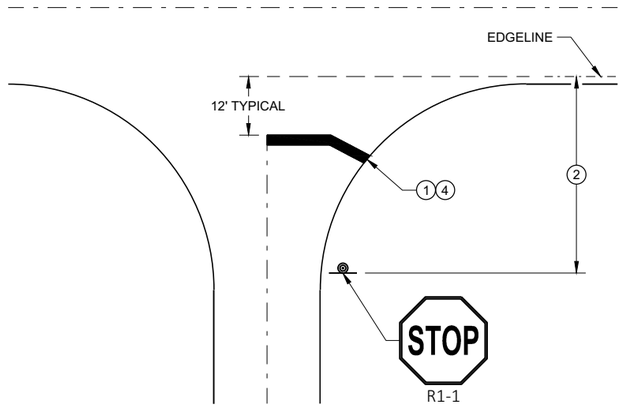


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL PAVEMENT MARKING FOR MID-BLOCK CROSSWALK 5

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MARKING ENGINEER
FHWA

6
SDD 15C33 - 04

GENERAL NOTES

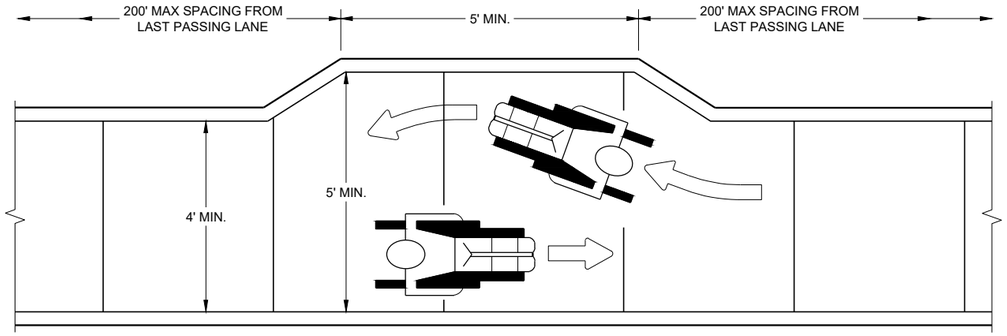
BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

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

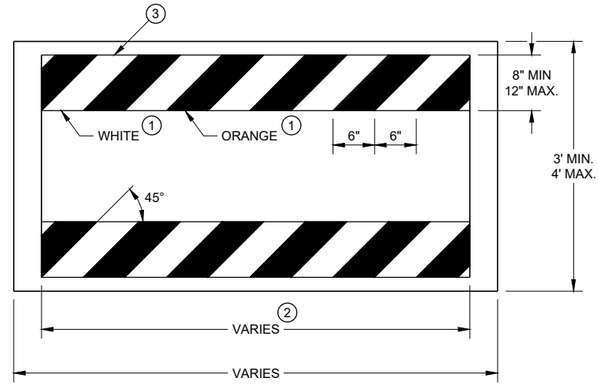
(2) SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.

(3) PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.

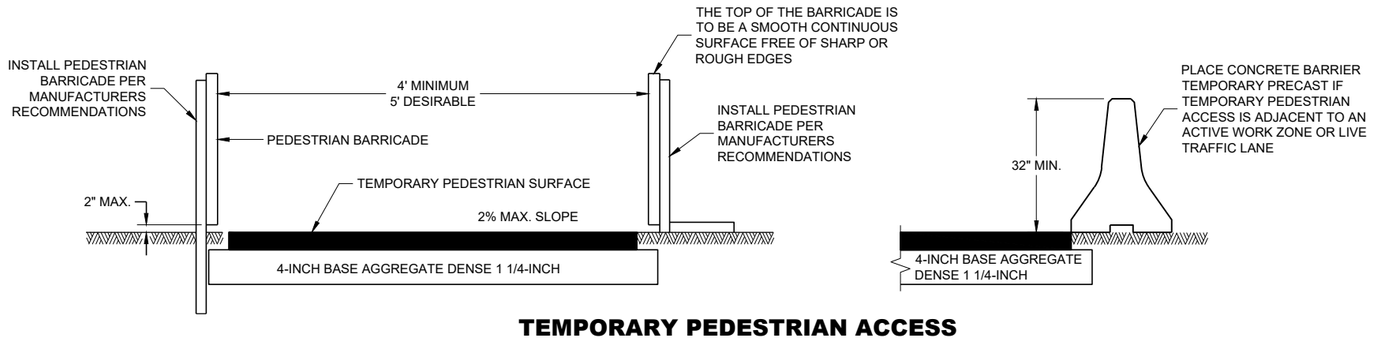
* USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.



NARROW SIDEWALK PASSING DETAIL



TEMPORARY PEDESTRIAN BARRICADE*



TEMPORARY PEDESTRIAN ACCESS

6

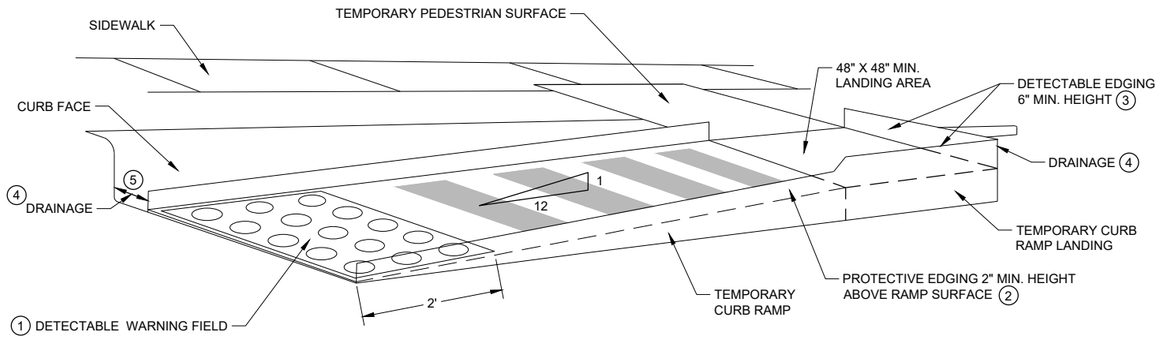
6

SDD 15D30 - 09a

SDD 15D30 - 09a

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA



PERSPECTIVE VIEW

GENERAL NOTES

CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.

CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES MAY BE VERTICAL UP TO ¼" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN ¼" AND ½".

(1) INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN THE PLANS.

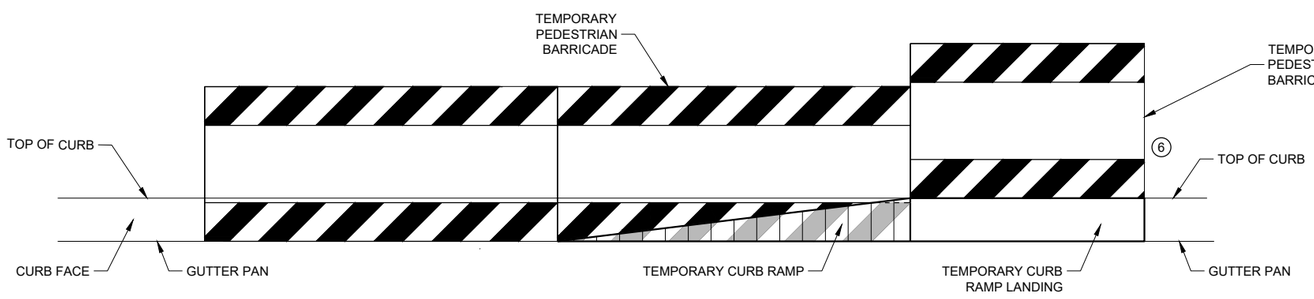
(2) PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

(3) DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

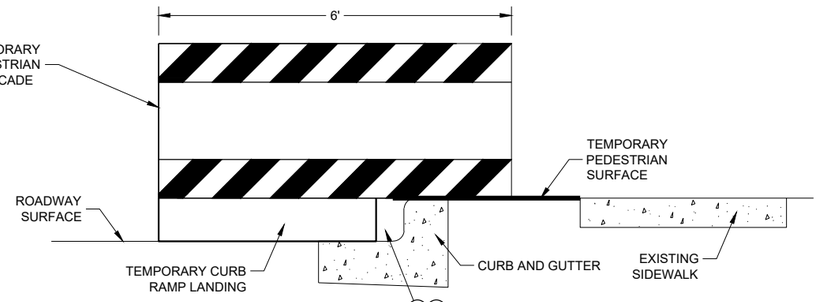
(4) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

(5) ENSURE CURB RAMP IS OUT OF THE GUTTER PAN.

(6) IF ONLY PART OF THE END PANEL OF TEMPORARY PEDESTRIAN BARRICADE PANEL IS NEEDED, EXTEND EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL HERE.



FRONT VIEW



SIDE VIEW

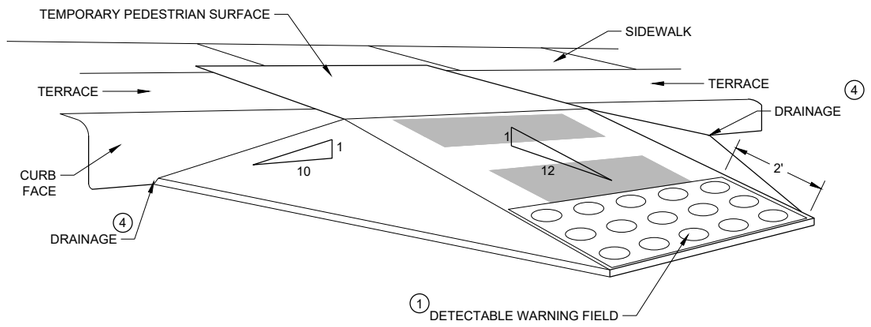
TEMPORARY CURB RAMP PARALLEL TO CURB

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

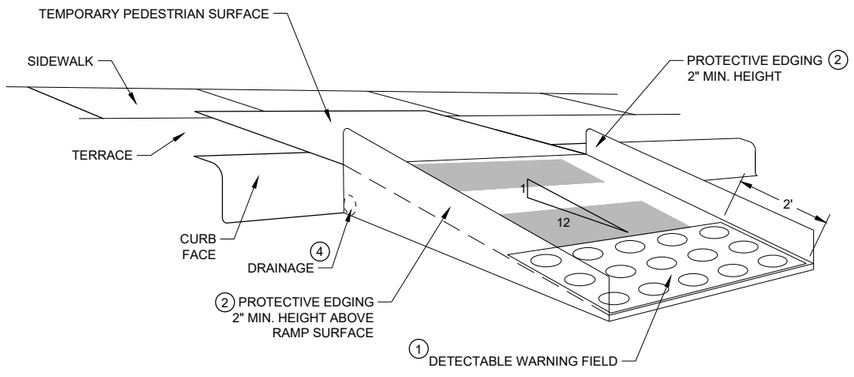
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA

6

SDD 15D30 - 09b



WITH SIDE APRON (5)



WITH PROTECTIVE EDGE

TEMPORARY CURB RAMP PERPENDICULAR TO CURB

GENERAL NOTES

CURB RAMPS SHALL BE 48" MINIMUM WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.

LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES MAY BE VERTICAL UP TO ¼" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN ¼" AND ½".

(1) INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN THE PLANS

(2) PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

(3) DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

(4) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

(5) CAN ONLY BE USED FOR RAMPS WITH 6" OR LESS OF VERTICAL CHANGE.

6

SDD 15D30 - 09c

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

GENERAL NOTES

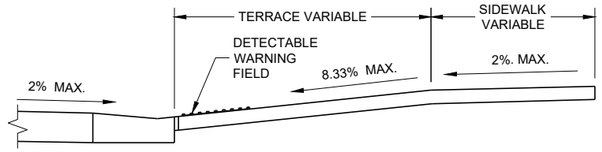
BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

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

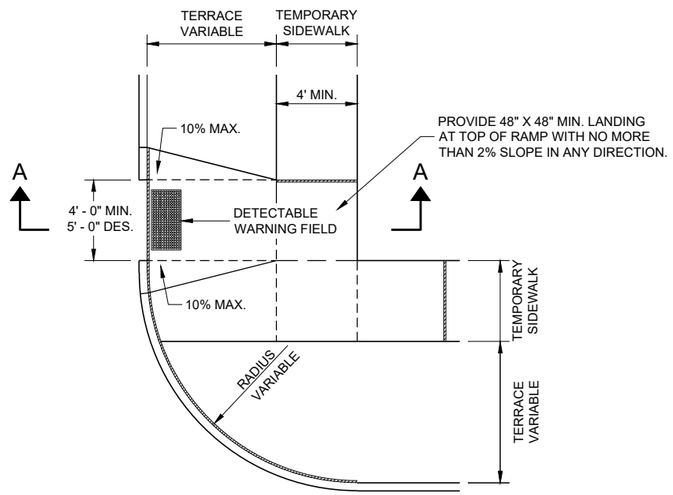
(2) SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.

(3) PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.

* USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.



SECTION A - A



PLAN VIEW

TEMPORARY TYPE 3 RAMP

(OUTSIDE OF CROSSWALK AREA)

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

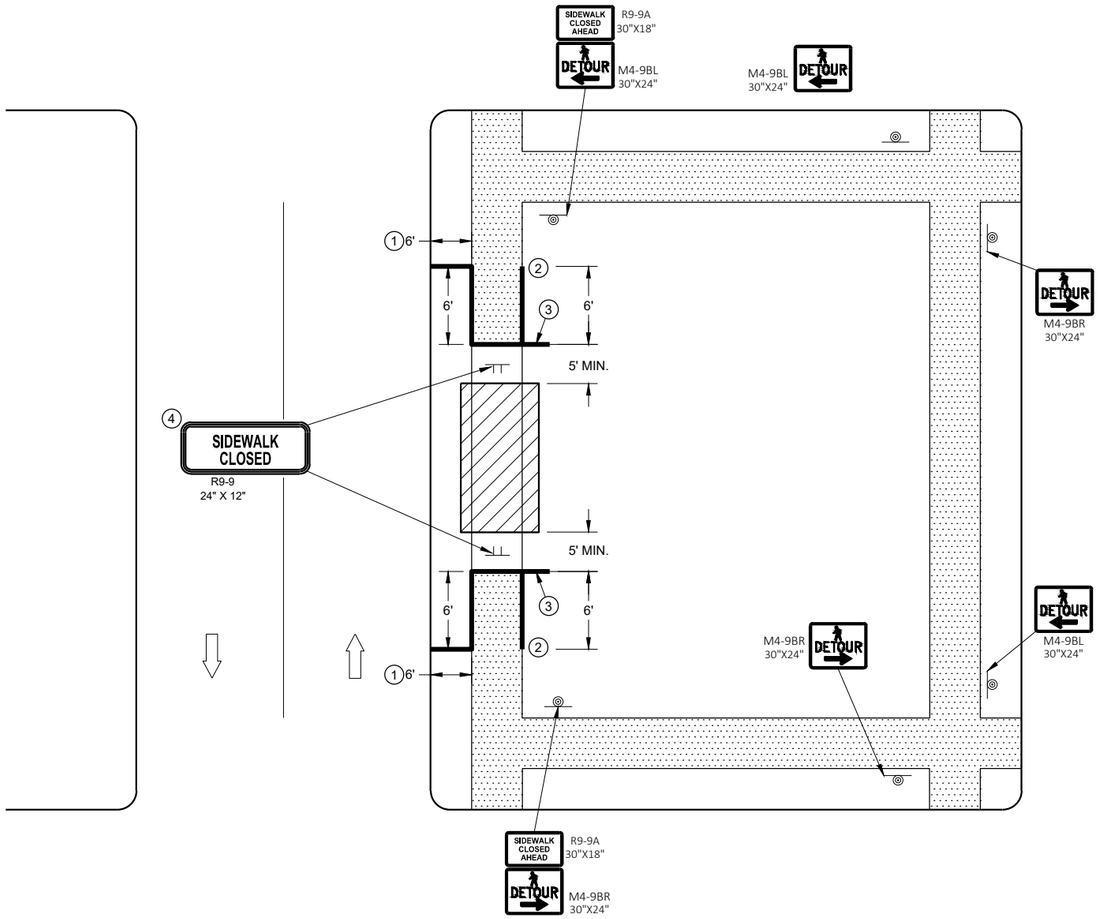
APPROVED
May 2023 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

6

SDD 15D30-09d

LEGEND

- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC



SIDEWALK DETOUR, SIDEWALK ONLY ON ONE SIDE

GENERAL NOTES

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

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

PLACE TEMPORARY PEDESTRIAN BARRICADE TO FIT FIELD CONDITIONS, AVOIDING CONFLICTS WITH DRIVEWAYS AND OTHER EXISTING FEATURES.

1. IF TERRACE IS LESS THAN 6 FEET WIDE, OMIT TEMPORARY PEDESTRIAN BARRICADE FROM THE SIDEWALK TO THE CURB.
2. PLACE BARRICADE CLOSURE SO THAT THE TEMPORARY PEDESTRIAN BARRICADE END IS AT THE LAST OPEN SIDEWALK ACCESS TO RESIDENCES OR BUSINESSES BEFORE THE SIDEWALK CLOSURE.
3. IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
4. MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

6

SDD 15D30 - 09f

LEGEND

- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- UNDER PEDESTRIAN TRAFFIC
- TEMPORARY PEDESTRIAN SURFACE
- TEMPORARY PEDESTRIAN BARRICADE
- OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

GENERAL NOTES

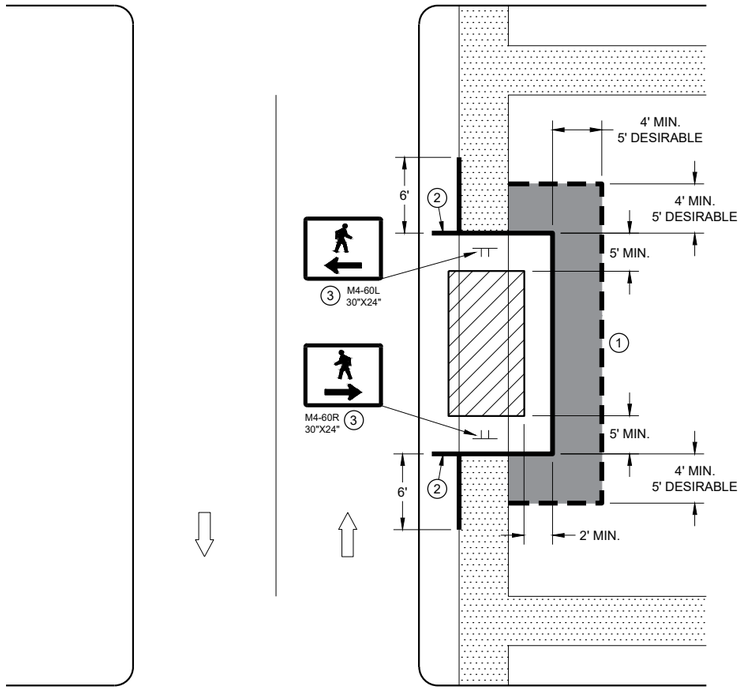
TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

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

1. USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.
2. IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
3. MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.



SIDEWALK DIVERSION
SINGLE SIDE

6

SDD 15D30 - 09g

TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD15D30 - 09g

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- WORK AREA
- UNDER PEDESTRIAN TRAFFIC
- TEMPORARY CURB RAMP
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

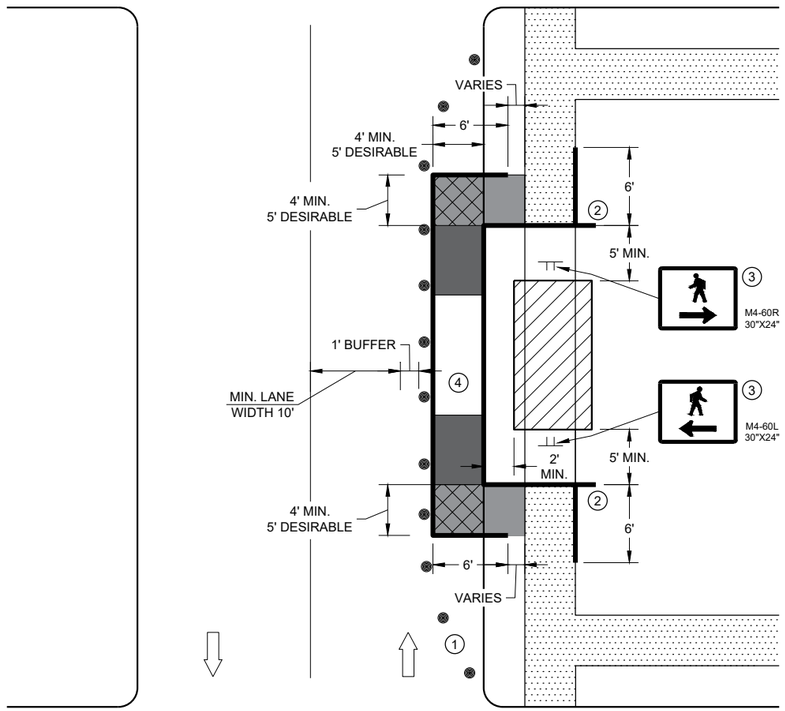
GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

1. SHOULDER OR LANE CLOSURE ADVANCE WARNING AND BUFFER SPACE REQUIRED.
2. PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL PAST THE SIDEWALK ON THE SIDE AWAY FROM THE ROAD.
3. MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.
4. USE EXISTING PAVEMENT SURFACE. IF EXISTING PAVEMENT SURACE HAS BEEN REMOVED, USE A TEMPORARY PEDESTRIAN SURFACE.



SIDEWALK DIVERSION, SINGLE SIDE

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

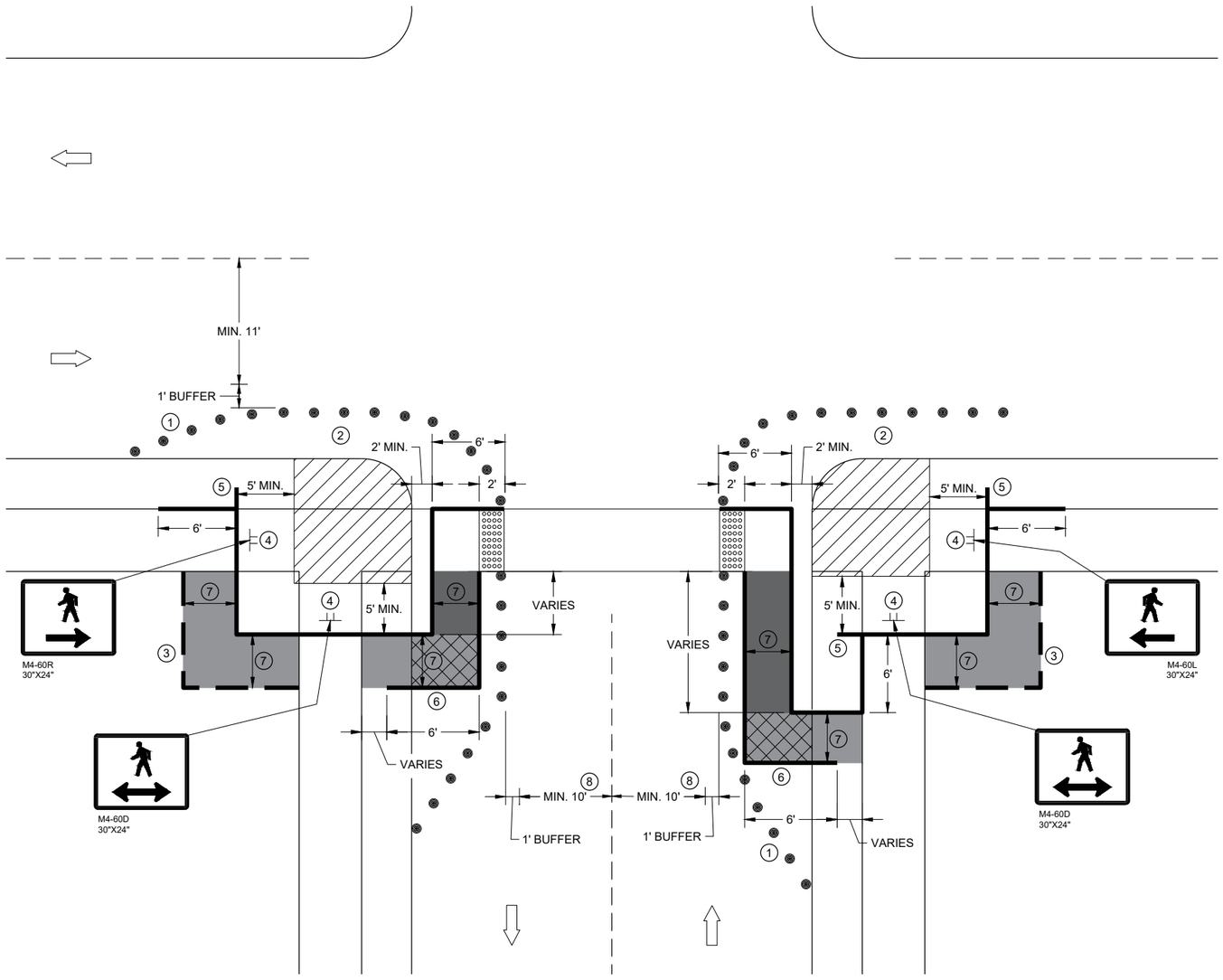
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15D30 - 09h

6

SDD 15D30 - 09h



CURB RAMP PEDESTRIAN TRAFFIC CONTROL
SIDEWALK ON SINGLE SIDE

GENERAL NOTES

IF PEDESTRIAN PUSH BUTTONS ARE PRESENT ON THE EXISTING FACILITY, ENSURE THEY ARE MAINTAINED/ACCESSIBLE FOR PEDESTRIAN USE THROUGHOUT THE TEMPORARY PEDESTRIAN ACCOMMODATIONS.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG

WHEN TEMPORARY PEDESTRIAN BARRICADE RUNS PARALLEL ALONG THE SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

(1) SHOULDER OR LANE CLOSURE ADVANCE WARNING AND PROPER BUFFER SPACE REQUIRED.

(2) PROVIDE ADEQUATE SPACE FOR CONTRACTOR OPERATIONS

(3) USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.

(4) MOUNTING HEIGHT OF 5 FEET FROM SIDEWALK SURFACE TO BOTTOM OF SIGN.

(5) PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL IN THE SIDEWALK TERRACE.

(6) IF TEMPORARY PEDESTRIAN BARRICADE DOES NOT REACH THE FACE OF THE CURB, USE AN ADDITIONAL PANEL AND EXTEND INTO THE TERRACE.

(7) 4 FEET MINIMUM, 5 FEET DESIRABLE

(8) IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, CURB RAMPS MAY NEED TO BE CONSTRUCTED AT SEPARATE TIMES.

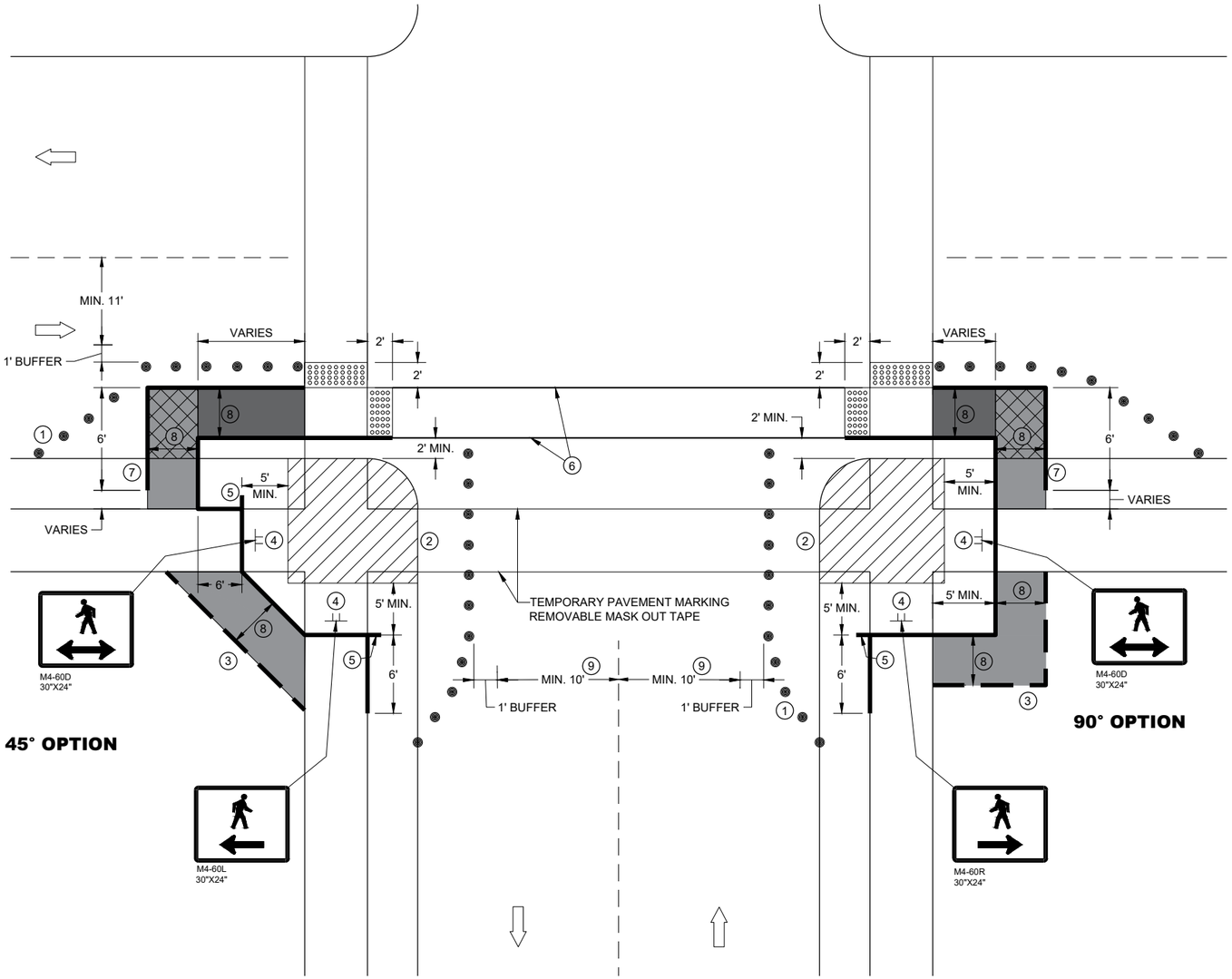
LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- WORK AREA
- TEMPORARY CURB RAMP
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- TEMPORARY DETECTABLE WARNING FIELD
- TEMPORARY PEDESTRIAN BARRICADE
- OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION

SDD 15D30 - 09i

6



CURB RAMP PEDESTRIAN TRAFFIC CONTROL

GENERAL NOTES

IF PEDESTRIAN PUSH BUTTONS ARE PRESENT ON THE EXISTING FACILITY, ENSURE THEY ARE MAINTAINED/ACCESSIBLE FOR PEDESTRIAN USE THROUGHOUT THE TEMPORARY PEDESTRIAN ACCOMMODATIONS.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG

WHEN TEMPORARY PEDESTRIAN BARRICADE RUNS PARALLEL ALONG THE SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

1. SHOULDER OR LANE CLOSURE ADVANCE WARNING AND PROPER BUFFER SPACE REQUIRED.
2. PROVIDE ADEQUATE SPACE FOR CONTRACTOR OPERATIONS
3. USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.
4. MOUNTING HEIGHT OF 5 FEET FROM SIDEWALK SURFACE TO BOTTOM OF SIGN.
5. PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL IN THE SIDEWALK TERRACE.
6. WHITE 6" TEMPORARY PAVEMENT MARKING
7. IF TEMPORARY PEDESTRIAN BARRICADE DOES NOT REACH THE FACE OF THE CURB, USE AN ADDITIONAL PANEL AND EXTEND INTO THE TERRACE.
8. 4 FEET MINIMUM, 5 FEET DESIRABLE
9. IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, CURB RAMPS MAY NEED TO BE CONSTRUCTED AT SEPARATE TIMES.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- WORK AREA
- TEMPORARY CURB RAMP
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- TEMPORARY DETECTABLE WARNING FIELD
- TEMPORARY PEDESTRIAN BARRICADE
- OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

LEGEND

SIGN ON PERMANENT SUPPORT

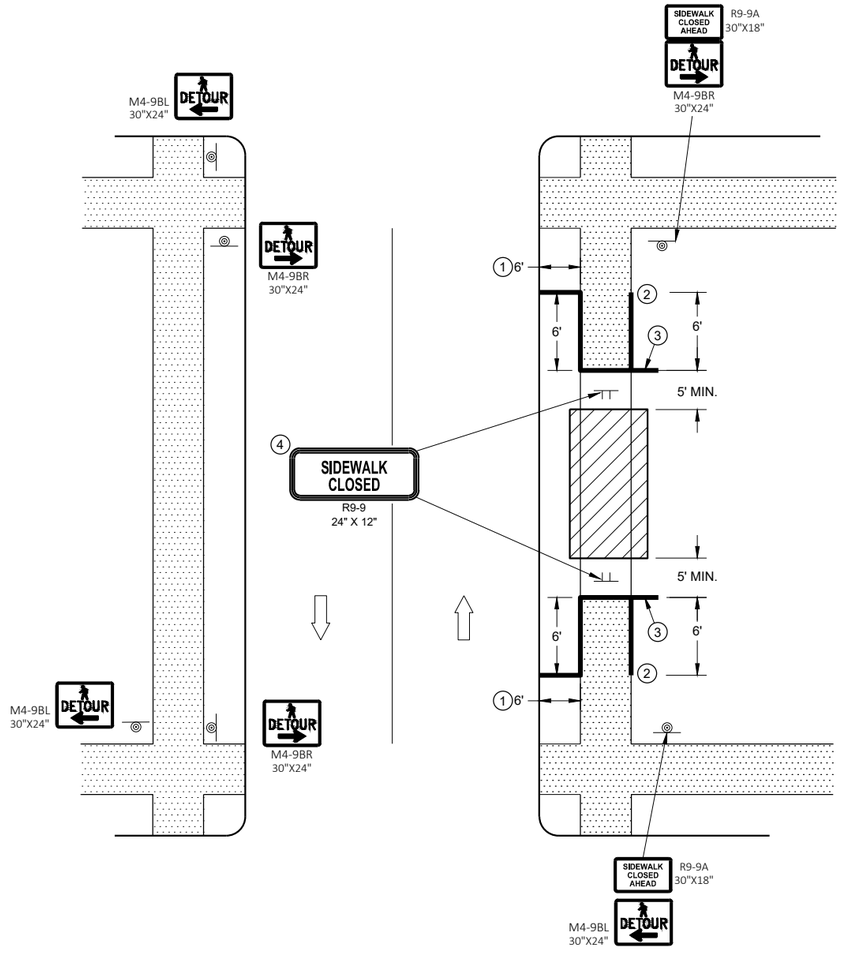
SIGN ON TEMPORARY SUPPORT

UNDER PEDESTRIAN TRAFFIC

WORK AREA

TEMPORARY PEDESTRIAN BARRICADE

DIRECTION OF TRAFFIC



GENERAL NOTES

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

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

PLACE TEMPORARY PEDESTRIAN BARRICADE TO FIT FIELD CONDITIONS, AVOIDING CONFLICT WITH DRIVEWAYS AND OTHER EXISTING FEATURES.

1. IF TERRACE IS LESS THAN 6 FEET WIDE, OMIT TEMPORARY PEDESTRIAN BARRICADE FROM THE SIDEWALK TO THE CURB.
2. PLACE BARRICADE CLOSURE SO THAT THE TEMPORARY PEDESTRIAN BARRICADE END IS AT THE LAST OPEN SIDEWALK ACCESS TO RESIDENCES OR BUSINESSES BEFORE THE SIDEWALK CLOSURE.
3. IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
4. MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.

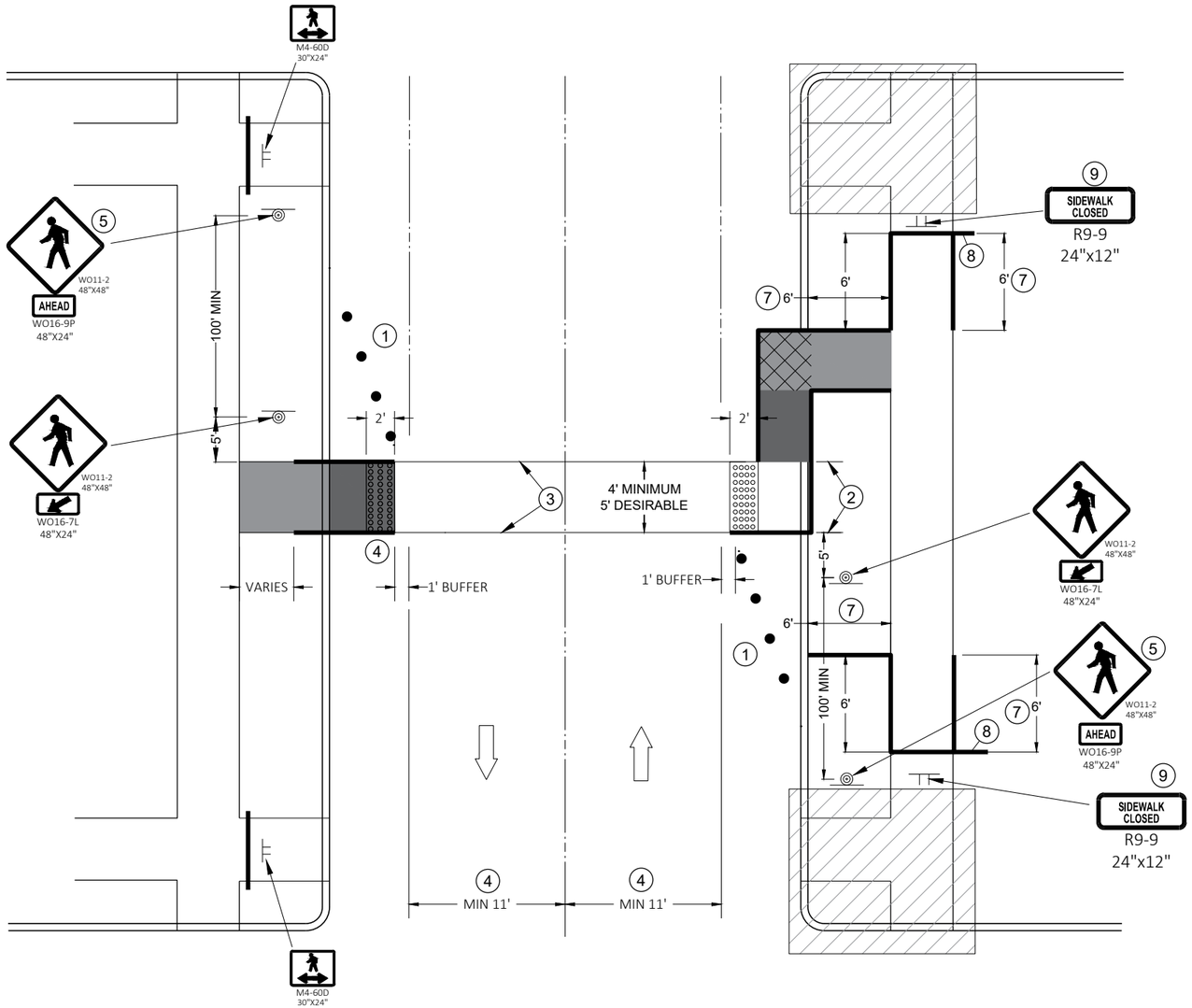
SIDEWALK DETOUR, SIDEWALK ON BOTH SIDES

6

SDD 15D30 - 09k

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTAT



TEMPORARY PEDESTRIAN CROSSING

GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

SEE OTHER PEDESTRIAN ACCOMMODATION DETAILS FOR SIGNING AND DEVICES FOR DIFFERENT PEDESTRIAN FACILITIES CLOSURES.

1. SHOULDER OR LANE CLOSURE ADVANCED WARNING AND PROPER BUFFER SPACE REQUIRED.
2. 4 FEET MINIMUM, 5 FEET DESIRABLE.
3. WHITE 6" TEMPORARY PAVEMENT MARKING.
4. IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, PERPENDICULAR CURB RAMPS MAY NEED TO BE UTILIZED.
5. IF MINIMUM 100' SPACING FROM THE MID-BLOCK CROSSING CANNOT BE ATTAINED BEFORE THE INTERSECTION, REMOVE THIS SIGN ASSEMBLY.
6. IF TERRACE IS LESS THAN 6 FEET WIDE, OMIT TEMPORARY PEDESTRIAN BARRICADE FROM THE SIDEWALK TO THE CURB.
7. PLACE BARRICADE CLOSURE SO THAT THE TEMPORARY PEDESTRIAN BARRICADE END IS AT THE LAST OPEN SIDEWALK ACCESS TO RESIDENCES OR BUSINESSES BEFORE THE SIDEWALK CLOSURE.
8. IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF THE EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
9. MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF THE SIGN.

LEGEND

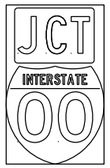
- TRAFFIC CONTROL DRUM
- SIGN ON TEMPORARY SUPPORT
- TEMPORARY CURB RAMP
- TEMPORARY DETECTABLE WARNING FIELD
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- WORK AREA
- TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

6

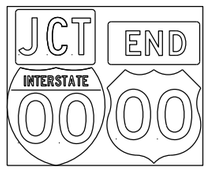
TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

SDD 15D30 - 09L

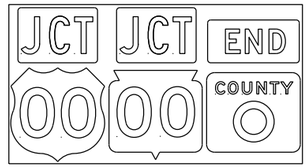
TYPICAL ASSEMBLIES



J1-1



J1-2



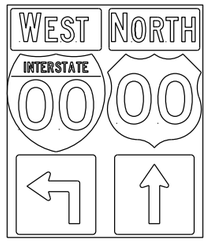
J1-3



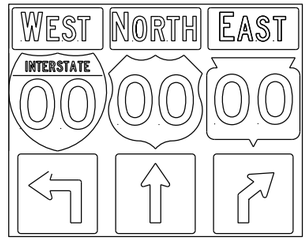
JR1-1



J2-1



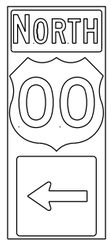
J2-2



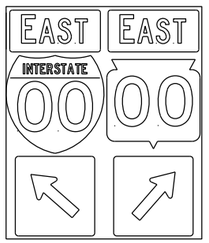
J2-3



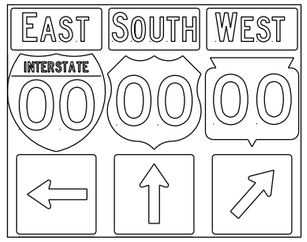
JV
(Typical Vertical J-Assembly
See Note 10 and 11)



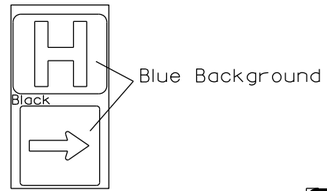
J3-1



J3-2



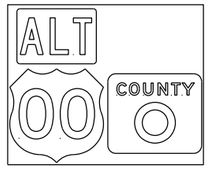
J3-3



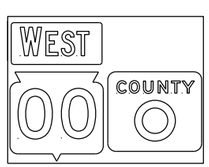
JH-1



J4-1



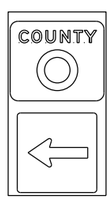
J4-2



J4-2



J12-1



J13-1



J32-1



J33-1



J22-1



J23-1



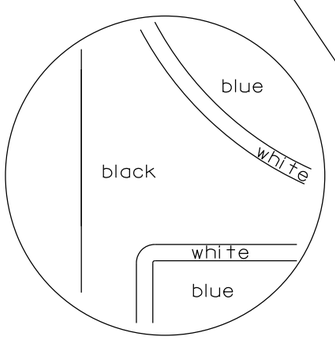
JR13-1

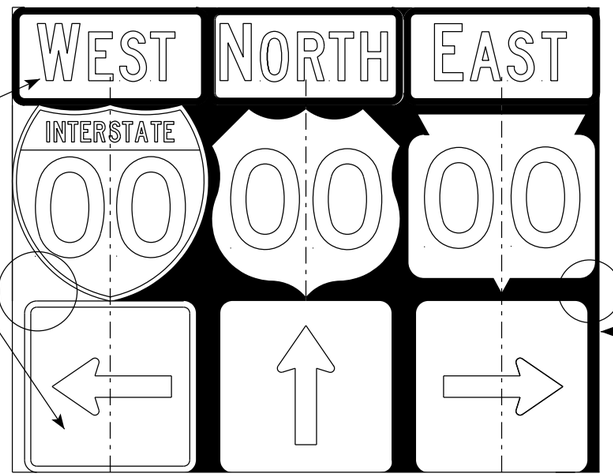


JR23-1



JR99-1





NOTES

1. Signs are Type II - Type H Reflective
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

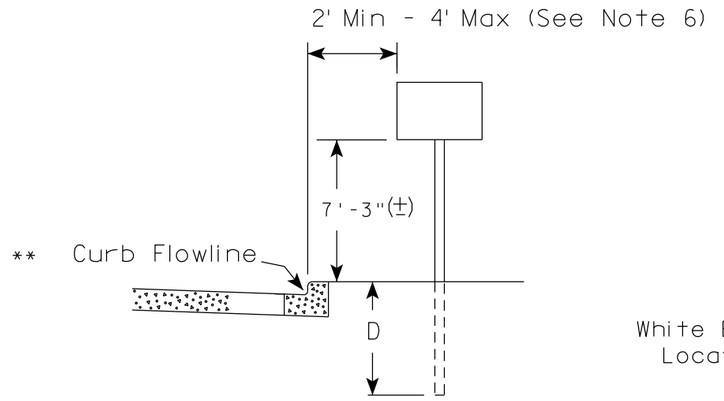
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/21 PLATE NO. A2-1S.9

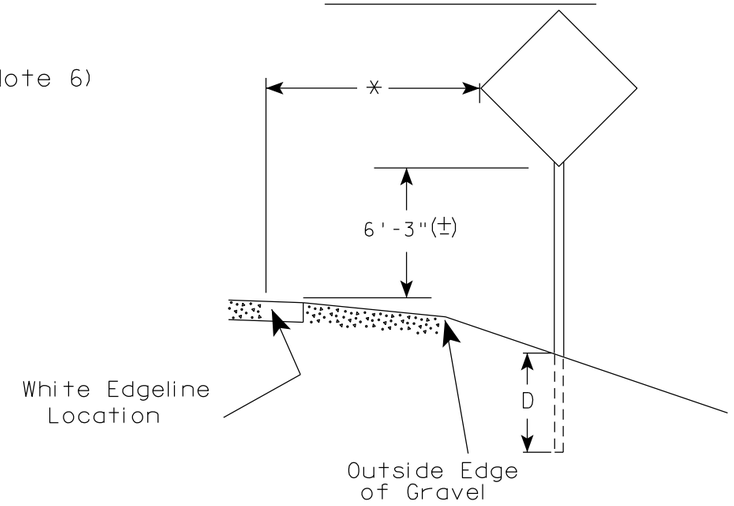
PROJECT NO:

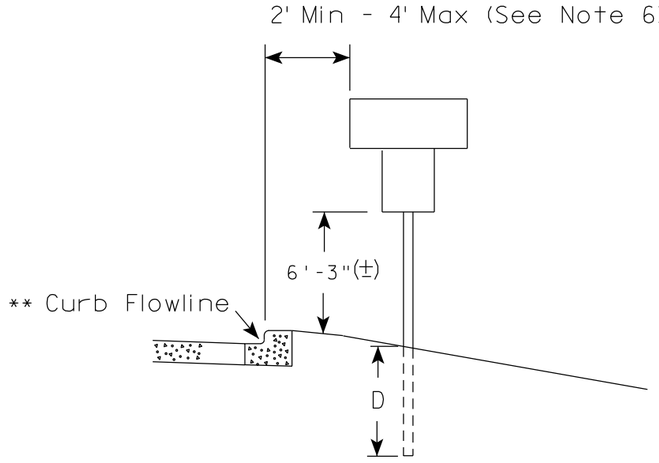
SHEET NO: 187 E

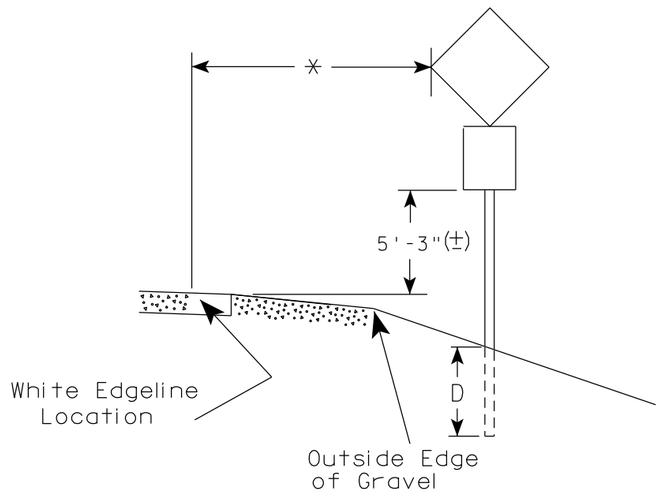
URBAN AREA



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.

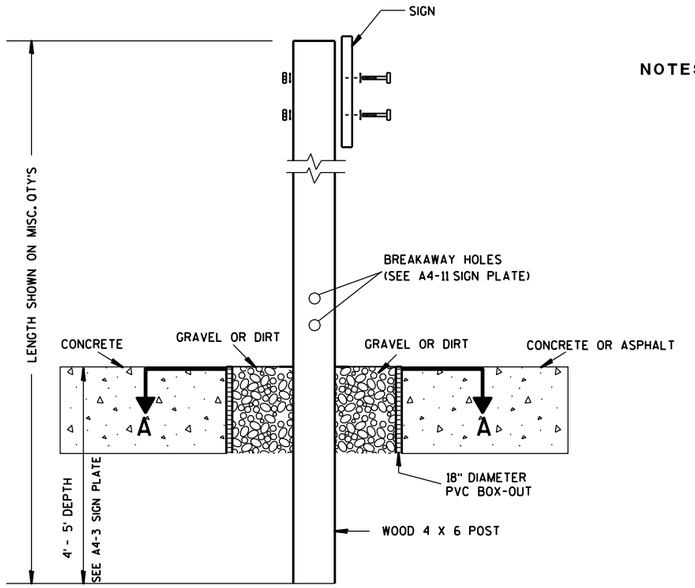
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

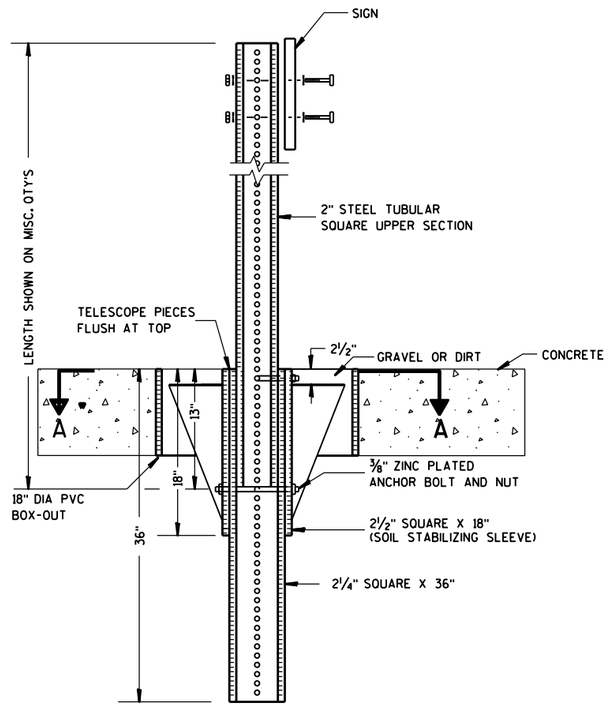
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 188	E



ELEVATION VIEW

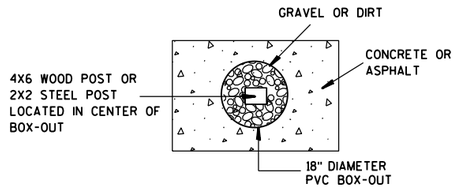
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

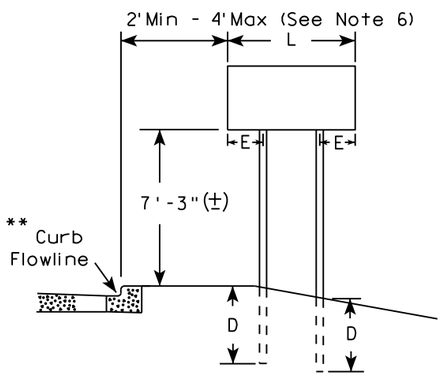
APPROVED Matthew R Rauch
for State Traffic Engineer

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

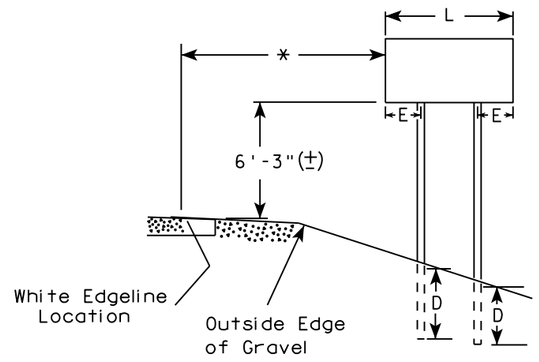
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

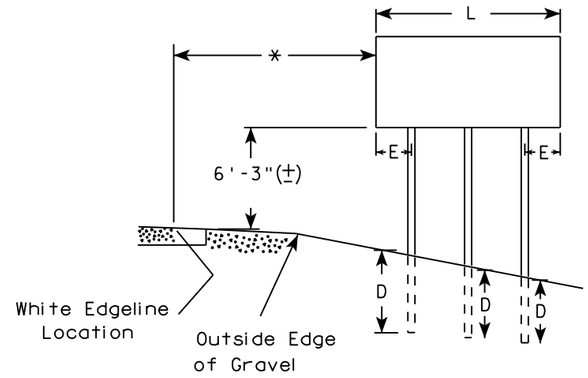
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

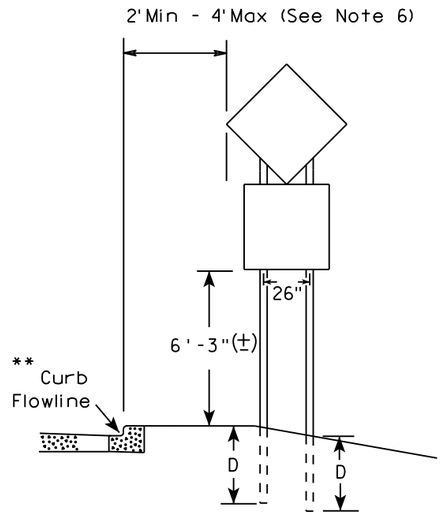
URBAN AREA



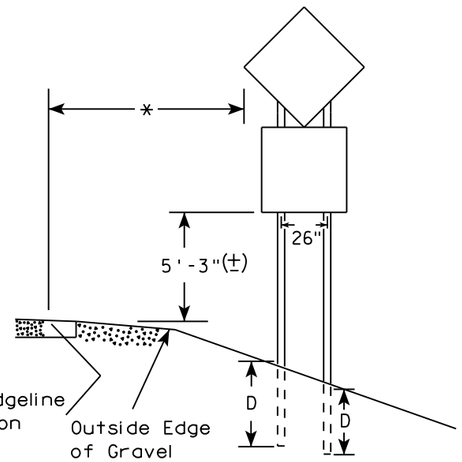
RURAL AREA (See Note 3)







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'

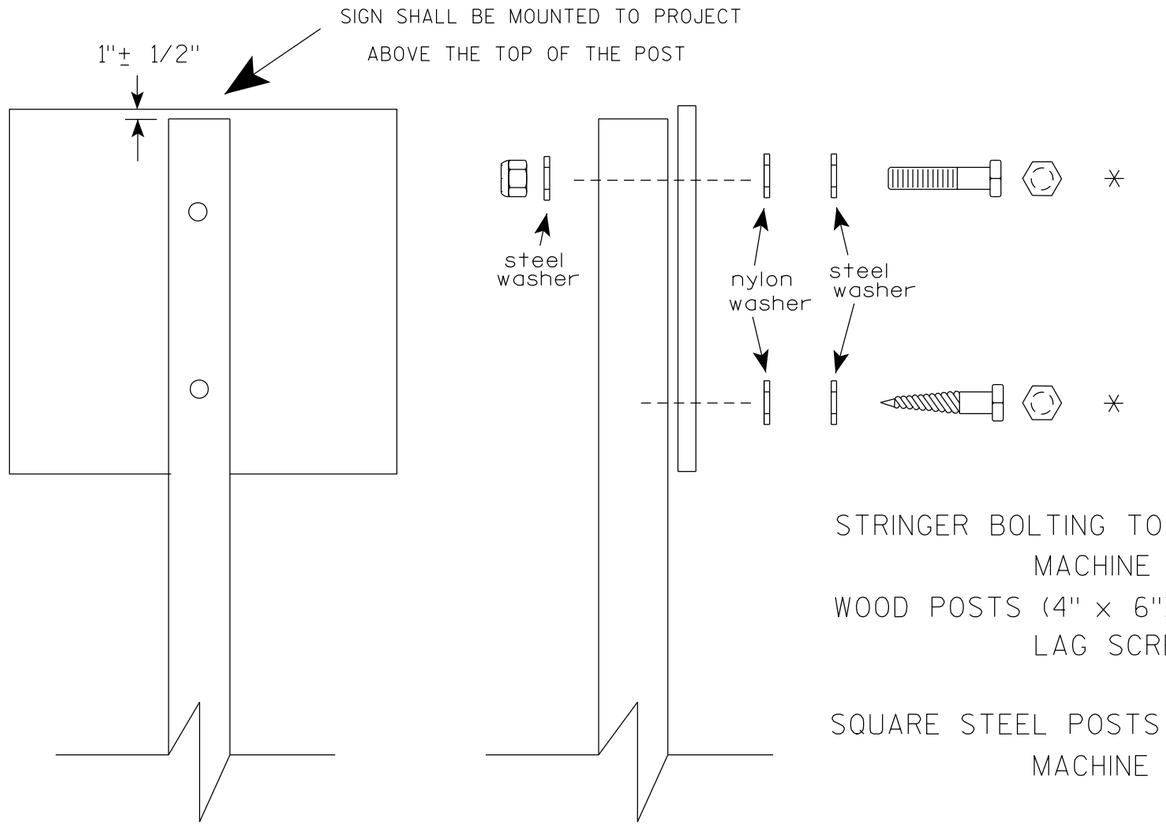
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

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: 190	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

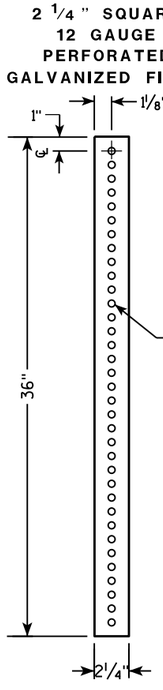
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

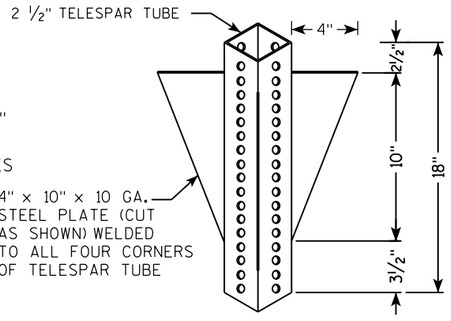
DATE 4/1/2020 PLATE NO. A4-8.9

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

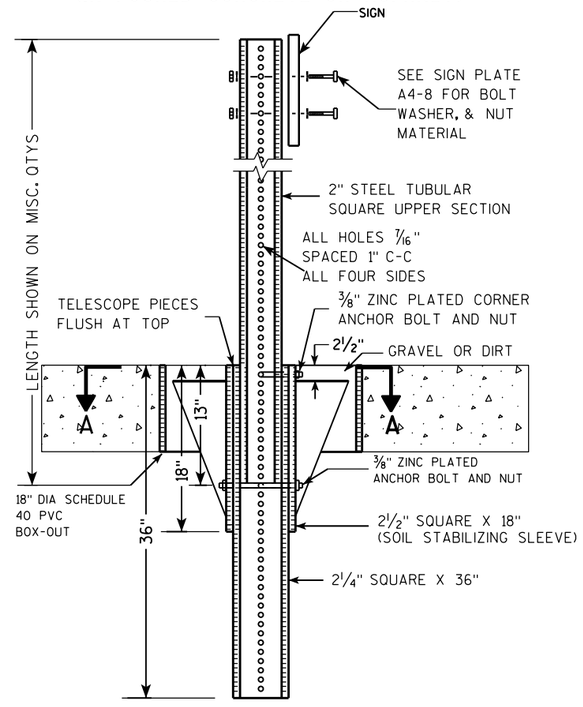
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



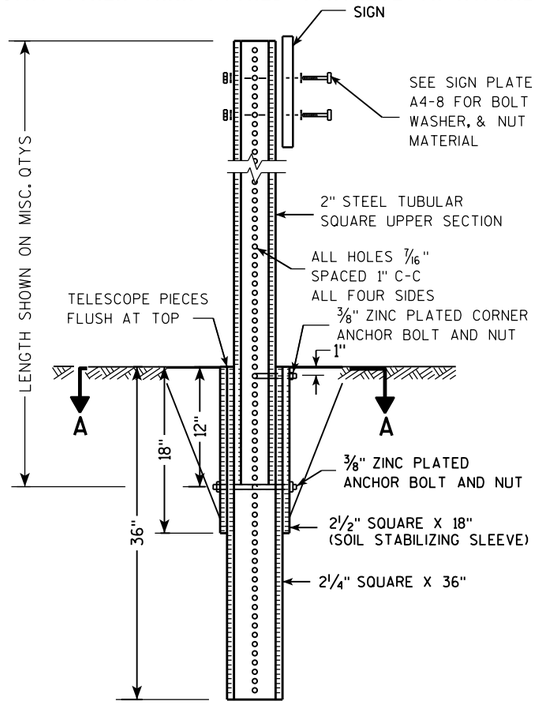
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

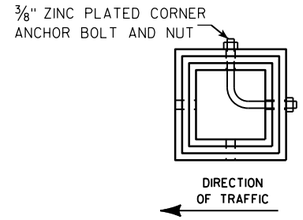


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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

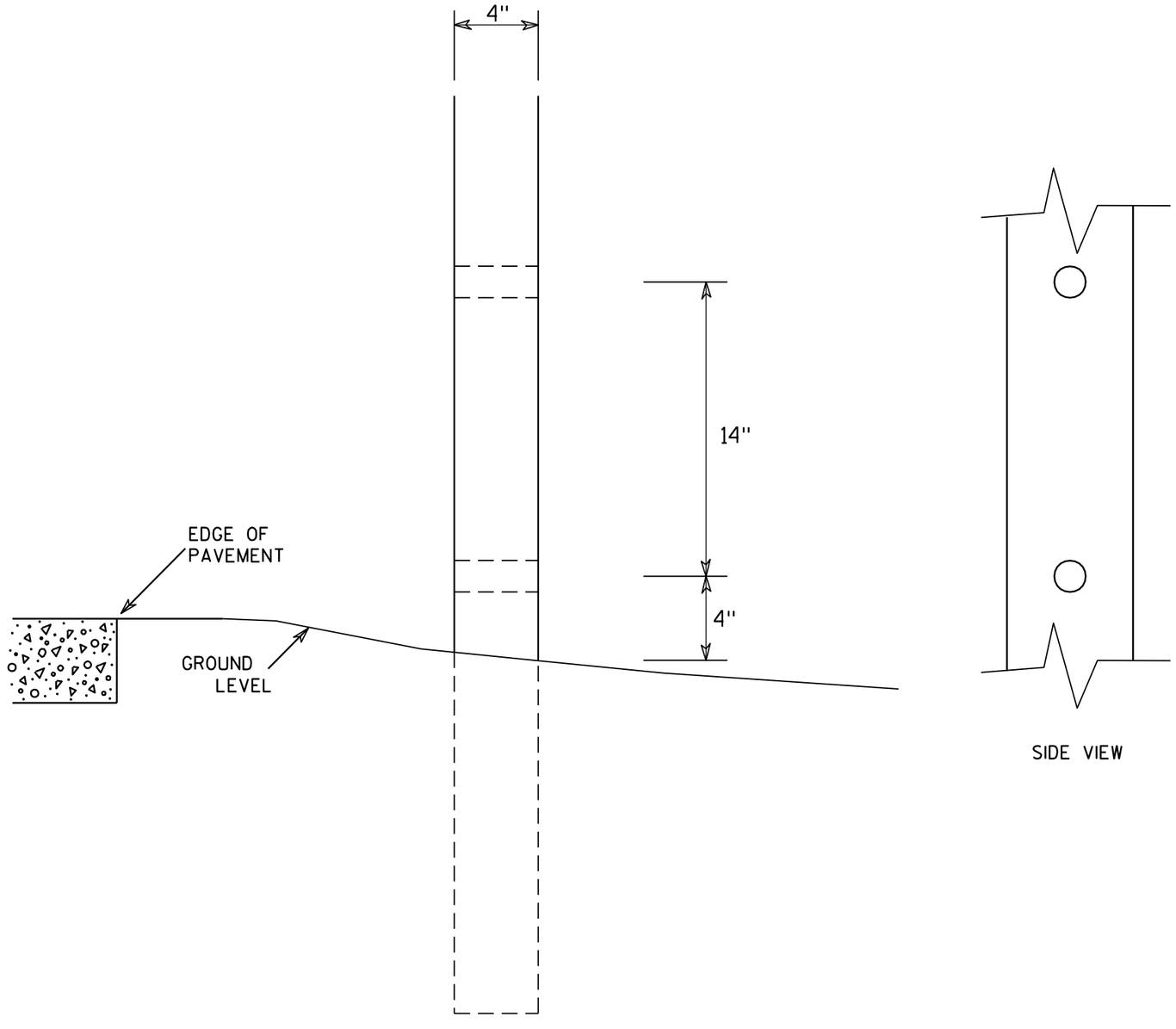
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE : 05-FEB-2015 17:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42



SIDE VIEW

GENERAL NOTES

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

7

7

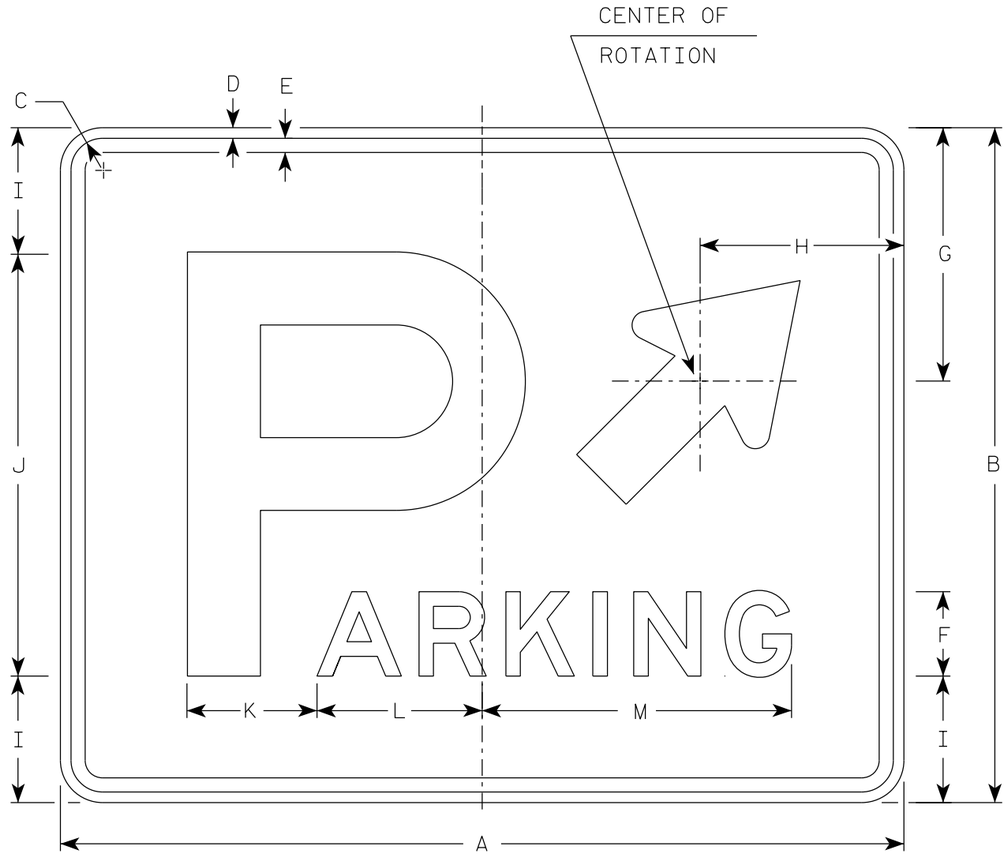
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

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

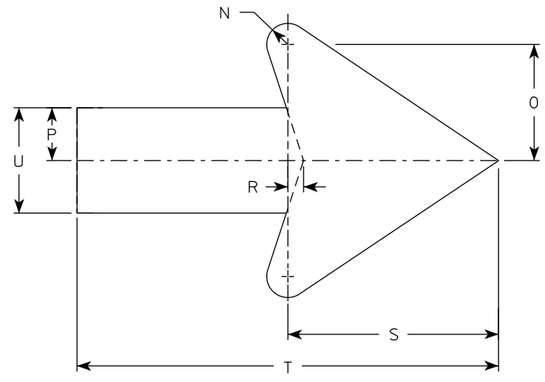
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 193	E



D4-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Green
3. Message Series - E
4. Arrow shall be rotated as required.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	15	1 1/8	3/8	3/8	2	7	4 3/8	2 1/2	10	3 1/8	4	7 1/4	3/8	1 5/8	3/4		1/4	3	6	1 1/2						1.88
2S	30	24	1 1/8	3/8	1/2	3	9	7 1/4	4 1/2	15	4 5/8	5 7/8	11	1/2	2 3/4	1 1/4		3/8	5	10	2 1/2						5.0
2M	30	24	1 1/8	3/8	1/2	3	9	7 1/4	4 1/2	15	4 5/8	5 7/8	11	1/2	2 3/4	1 1/4		3/8	5	10	2 1/2						5.0
3	48	36	1 3/8	1/2	5/8	5	11	12	5 1/2	25	7 3/4	9 3/4	18 1/4	3/4	3 7/8	1 7/8		5/8	7 1/2	15	3 3/4						12.0
4																											
5																											

STANDARD SIGN
D4-1

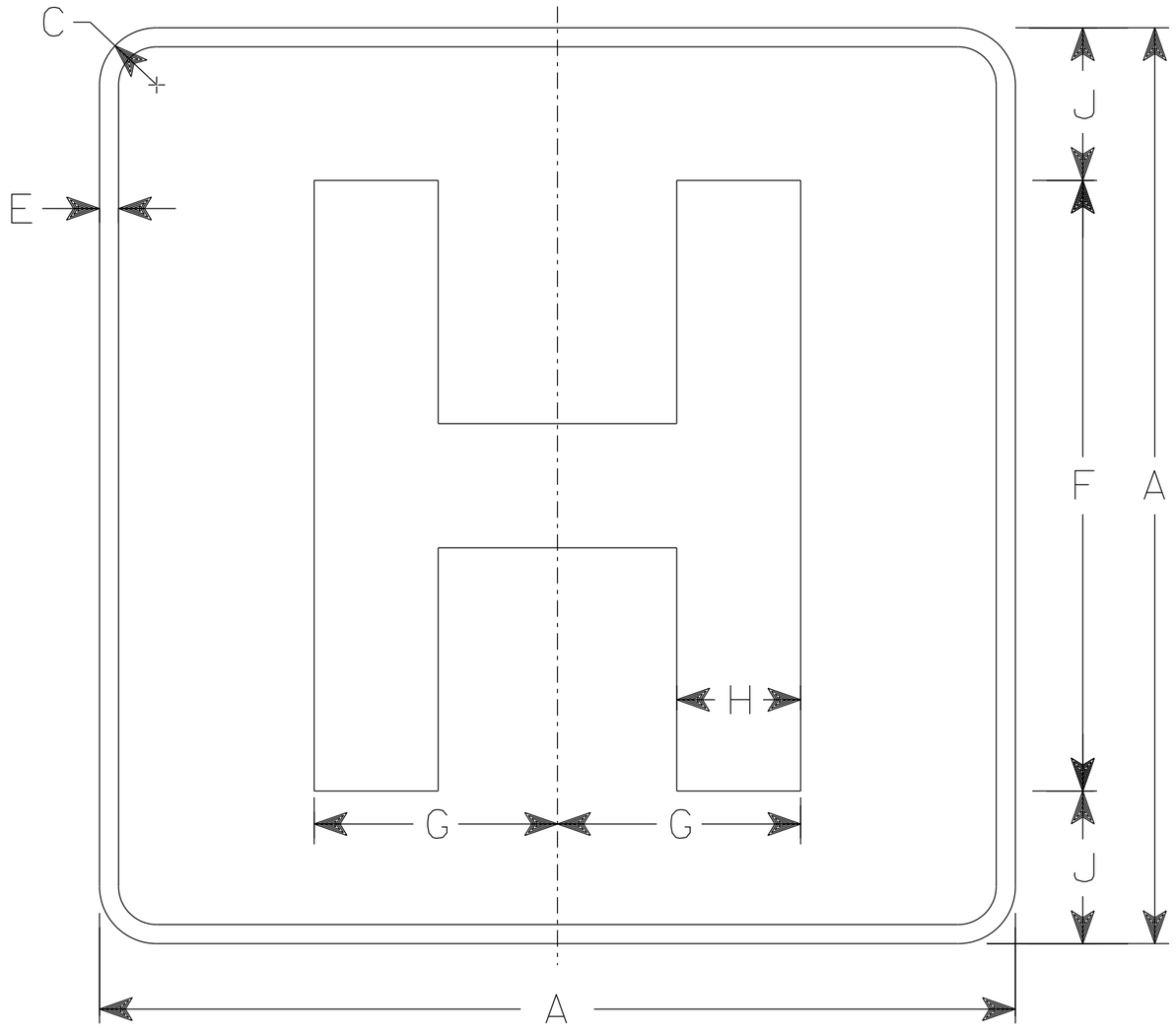
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/19/2021 PLATE NO. D4-1.9

PROJECT NO:

SHEET NO: 194 E



D9-2

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - Blue
   Message - White
3. Message Series - E Modified
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	18		1 1/8		1/2	12	4 3/4	2 3/8		3																	2.25
2S	24		1 1/2		1/2	16	6 3/8	3 1/4		4																	4.0
2M	24		1 1/2		1/2	16	6 3/8	3 1/4		4																	4.0
3	36		2 1/4		3/4	24	9 1/2	4 7/8		6																	9.0
4																											
5																											

STANDARD SIGN
D9-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

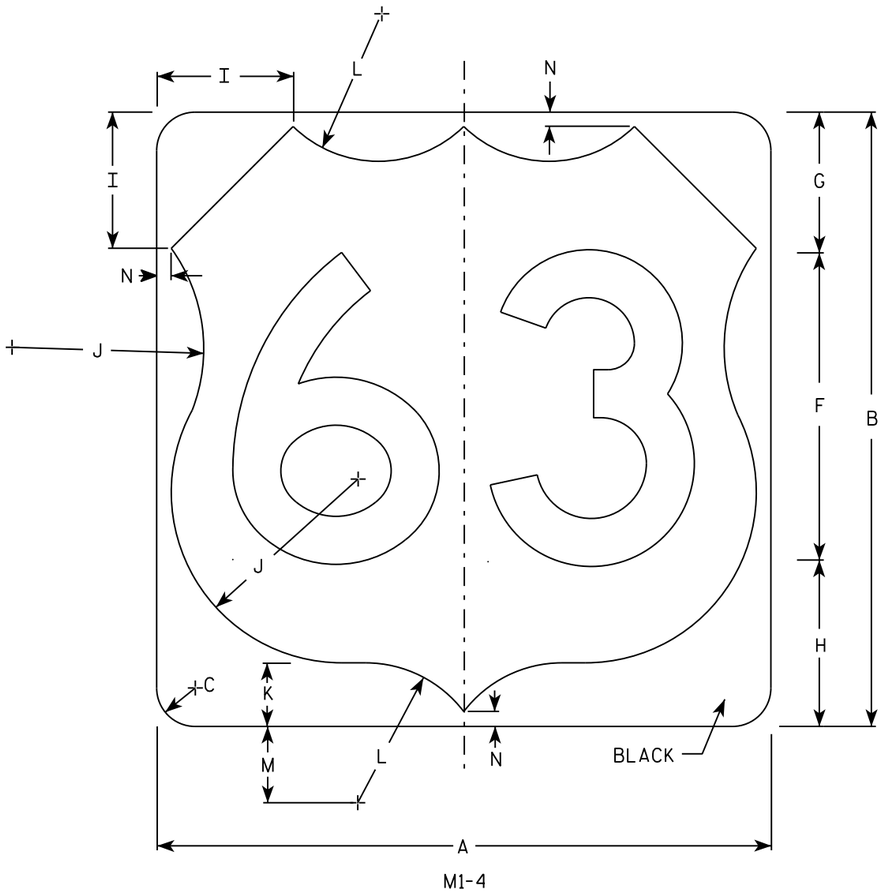
DATE 1/28/21 PLATE NO. D9-2.5

PROJECT NO:

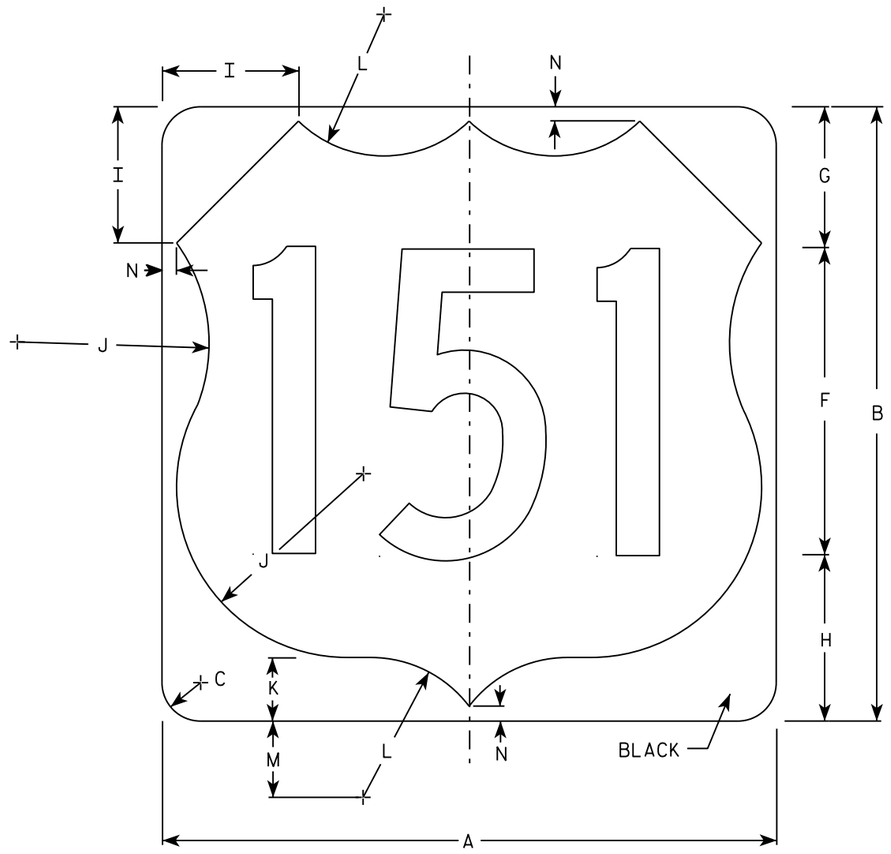
SHEET NO: 195 E

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.



M1-4



M1-4

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	24	1 1/2			12	5 1/2	6 1/2	5	7 1/2	2 1/2	5 1/2	3	1/2													4.0
3	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0
4	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0
5	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0

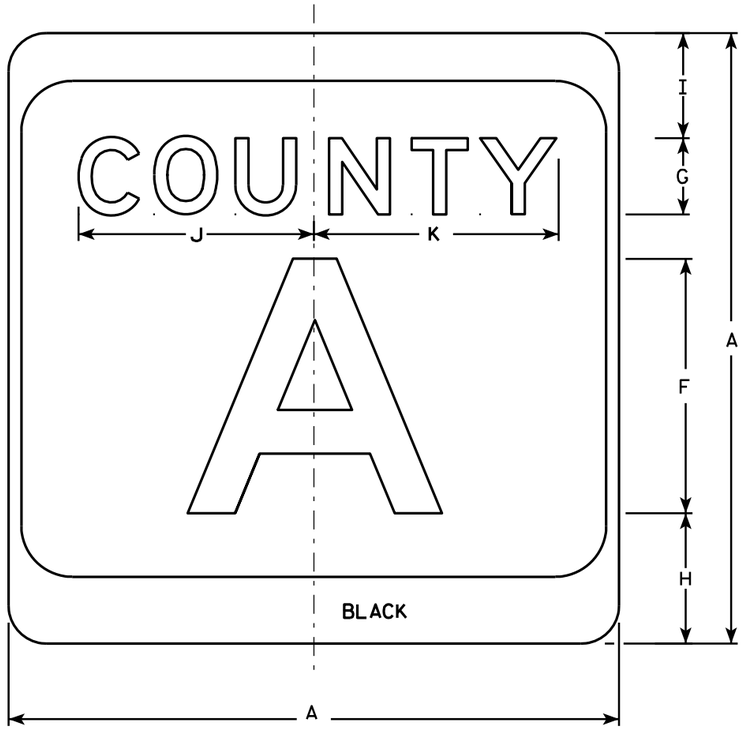
USH MARKER
M1-4 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

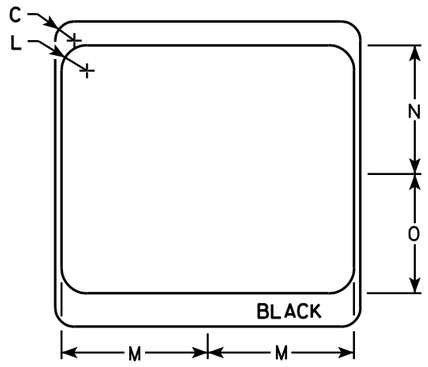
APPROVED Matthew R Rauch
for State Traffic Engineer

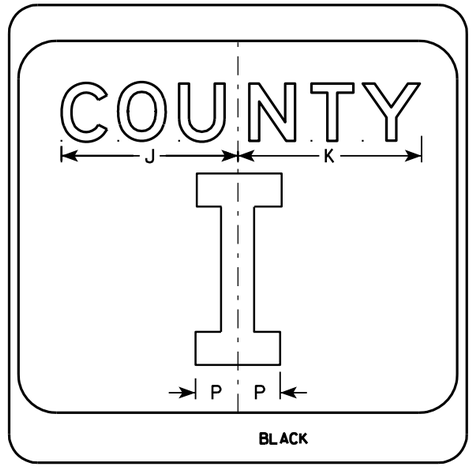
DATE 3/16/18 PLATE NO. M1-4.10

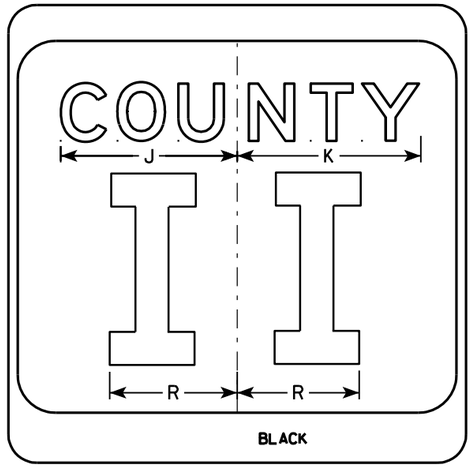
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 196	E



M1-5A







NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 7
   Message - Black
3. Message Series - see Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
6. Substitute appropriate letters & optically center to achieve proper balance.
7. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

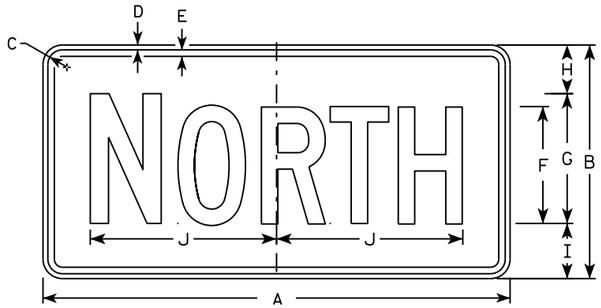
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

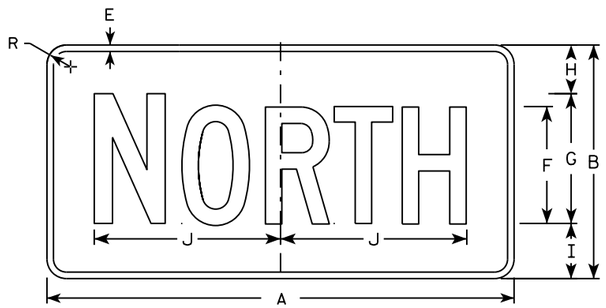
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 197	E



M3-1
MM3-1
MP3-1



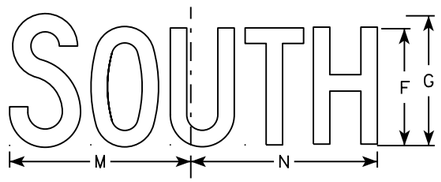
MB3-1
MK3-1
MN3-1



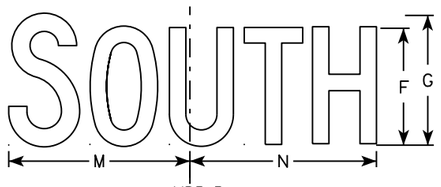
M3-2
MM3-2
MP3-2



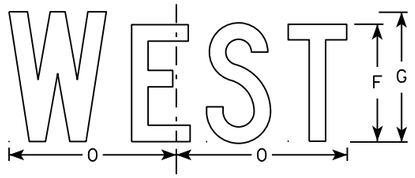
MB3-2
MK3-2
MN3-2



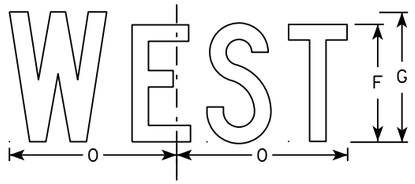
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

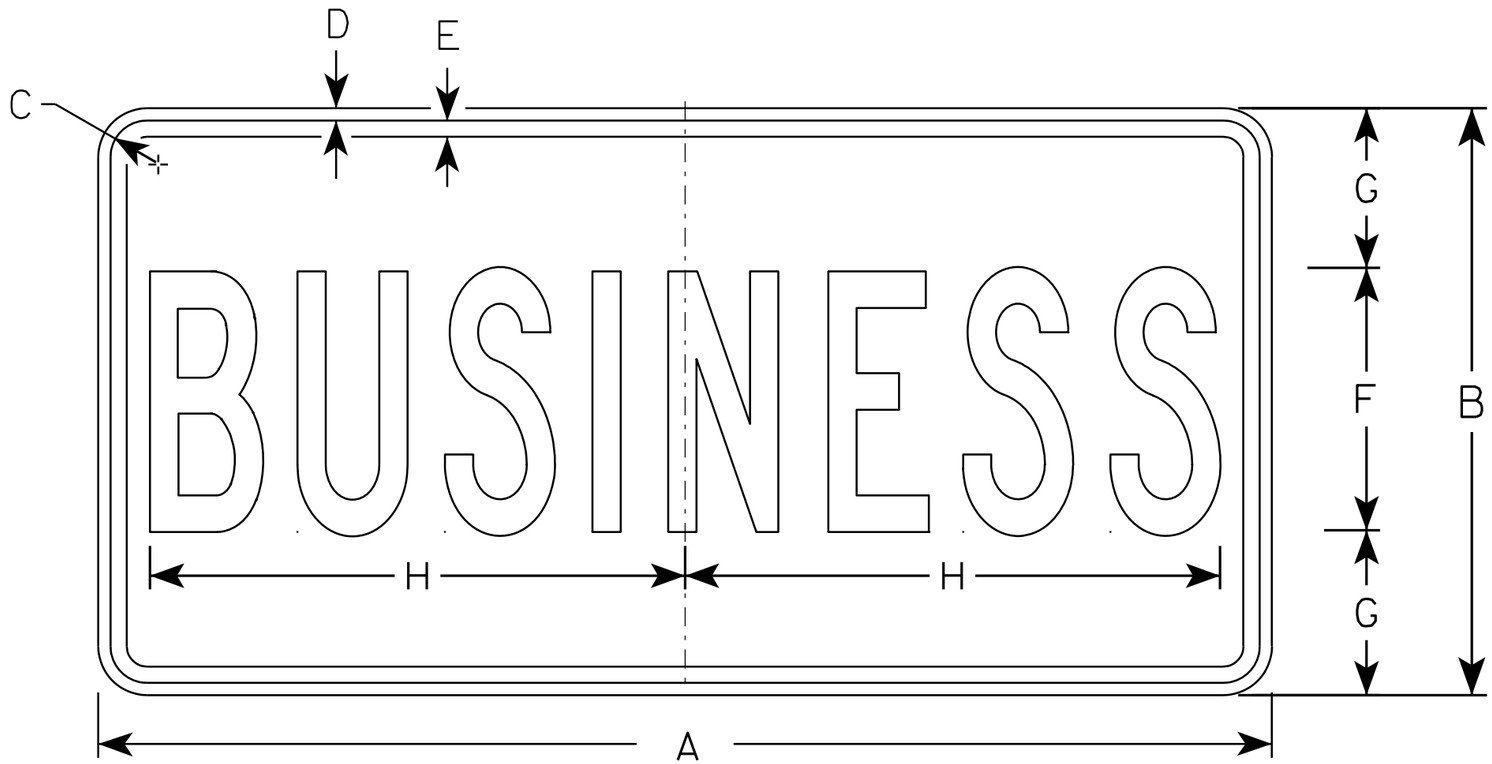
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

DATE 10/15/15 PLATE NO M3-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



M4-3

NOTES

1. Sign is Type II - See Note 5 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White - See Note 5
   Message - Black
3. Message Series - 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.
5. Permanent Signs
   Background - Type H Reflective
   Detour or other temporary Signs
   Background - Reflective

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	5	3 1/2	9 5/8																			2.0
3	36	18	1 1/8	3/8	1/2	8	5	16 3/8																			4.5
4																											
5																											

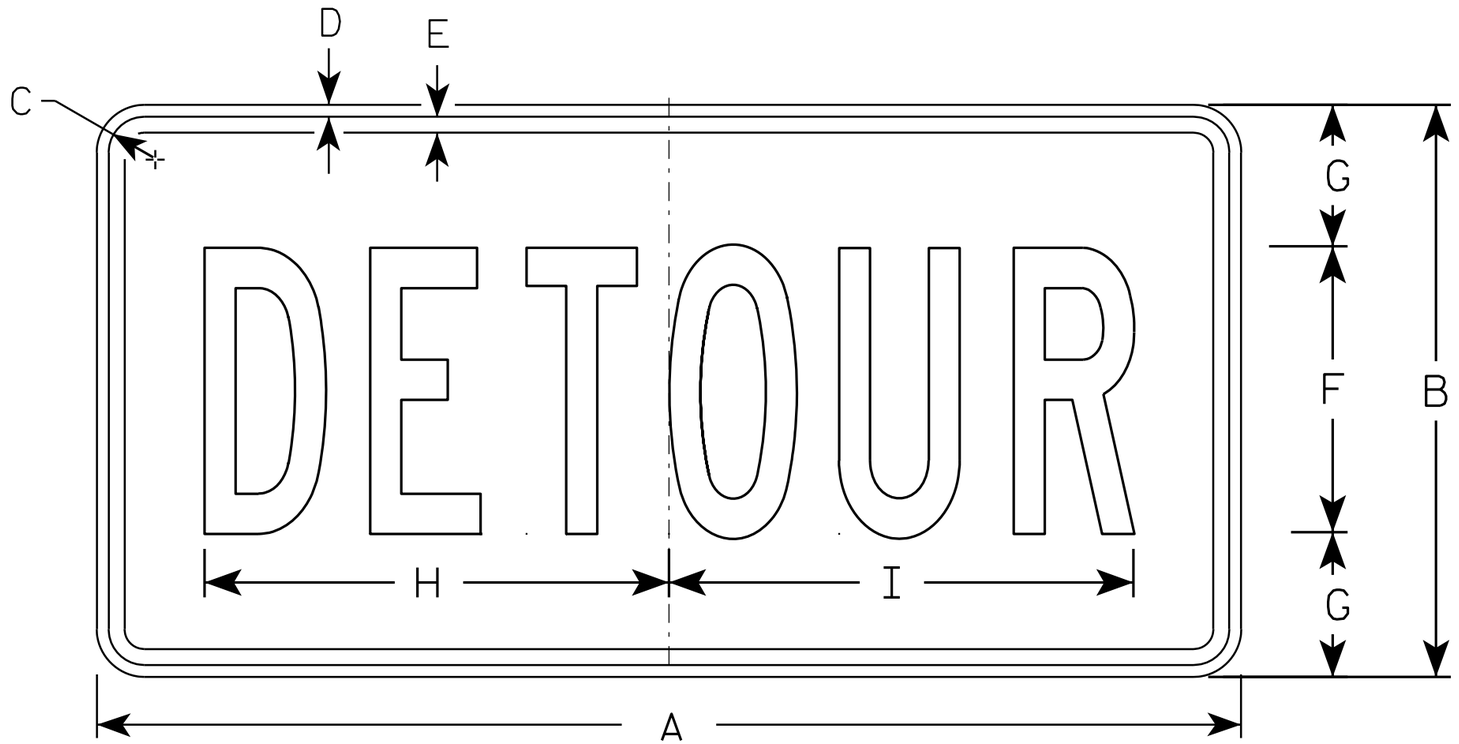
STANDARD SIGN
M4-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-3.5

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 199 | E



M4-8

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/8	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4																											
5																											

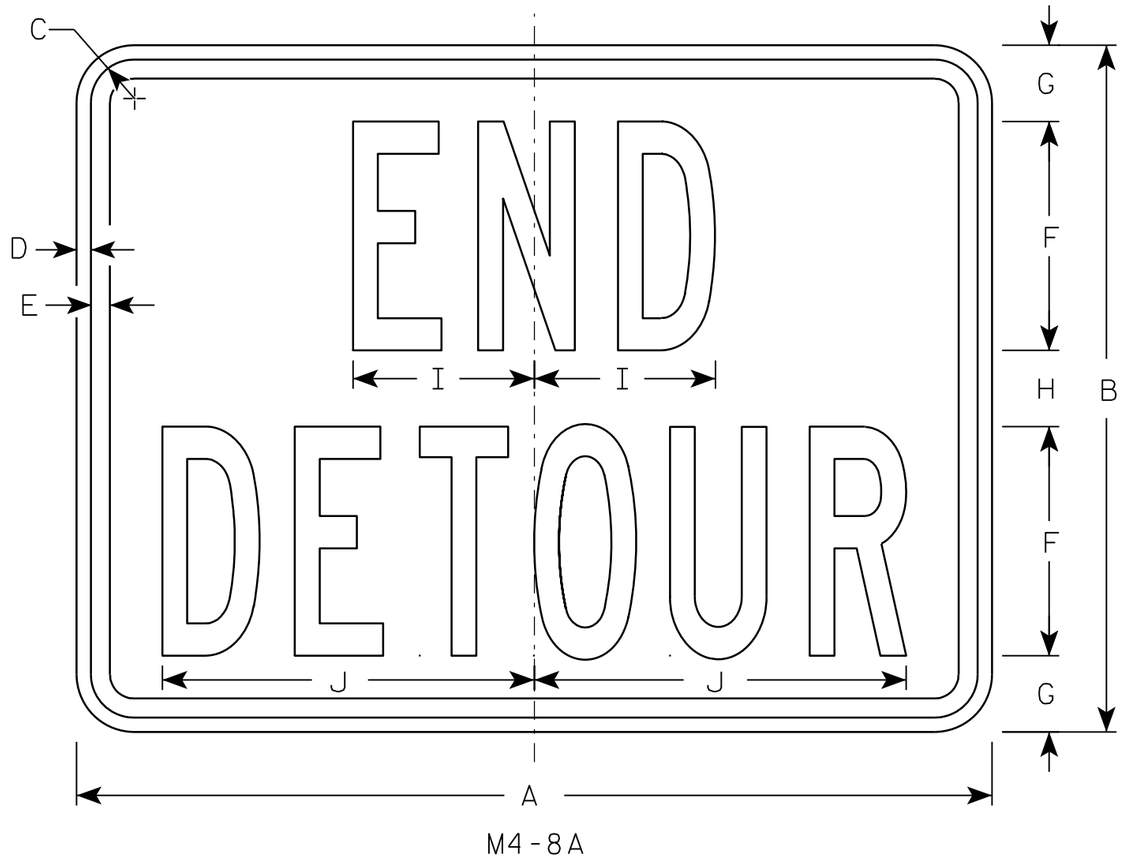
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-8.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 200	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																											

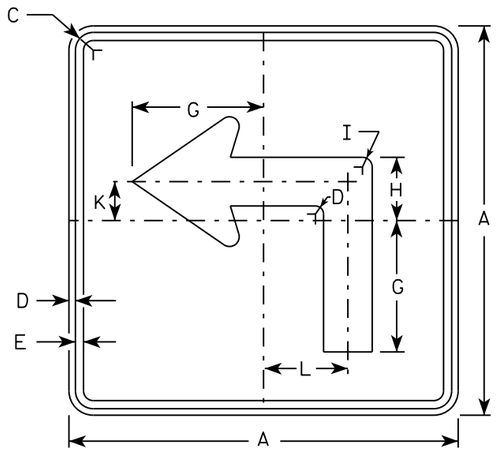
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

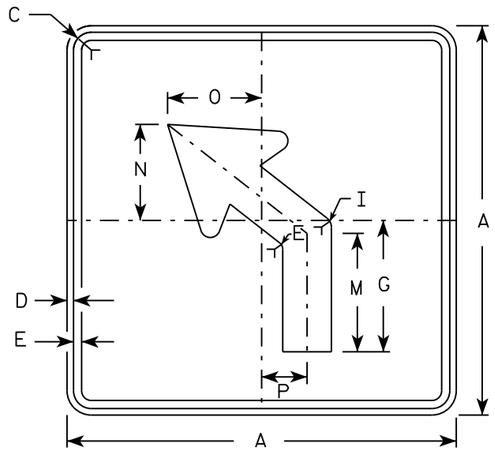
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-8A.2

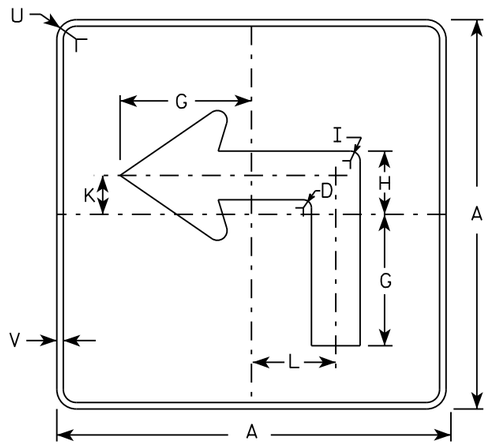
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 201	E



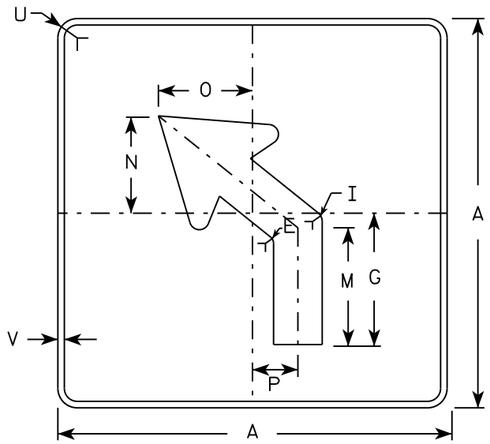
M5-1L
MM5-1L
MO5-1L
MP5-1L



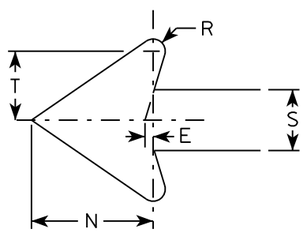
M5-2L
MM5-2L
MO5-2L
MP5-2L



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

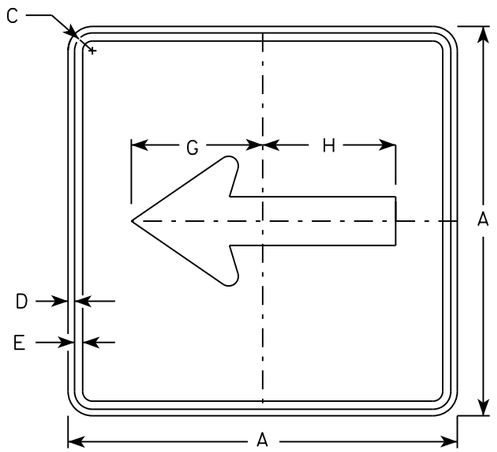
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

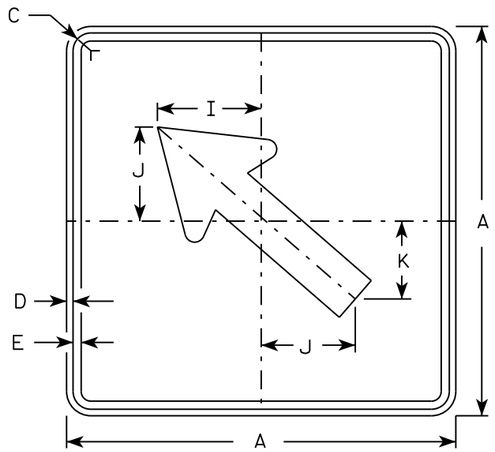
DATE 10/15/15 PLATE NO. M5-1.13

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



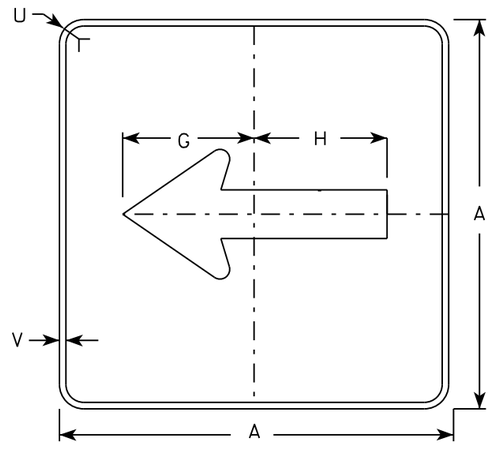
M6-1
MM6-1
MO6-1
MP6-1



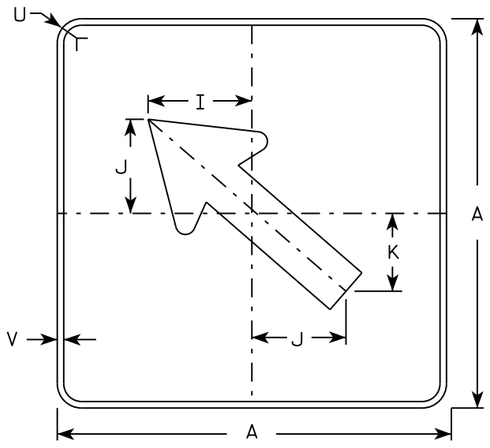
M6-2
MM6-2
MO6-2
MP6-2

NOTES

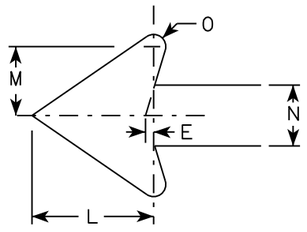
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - 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

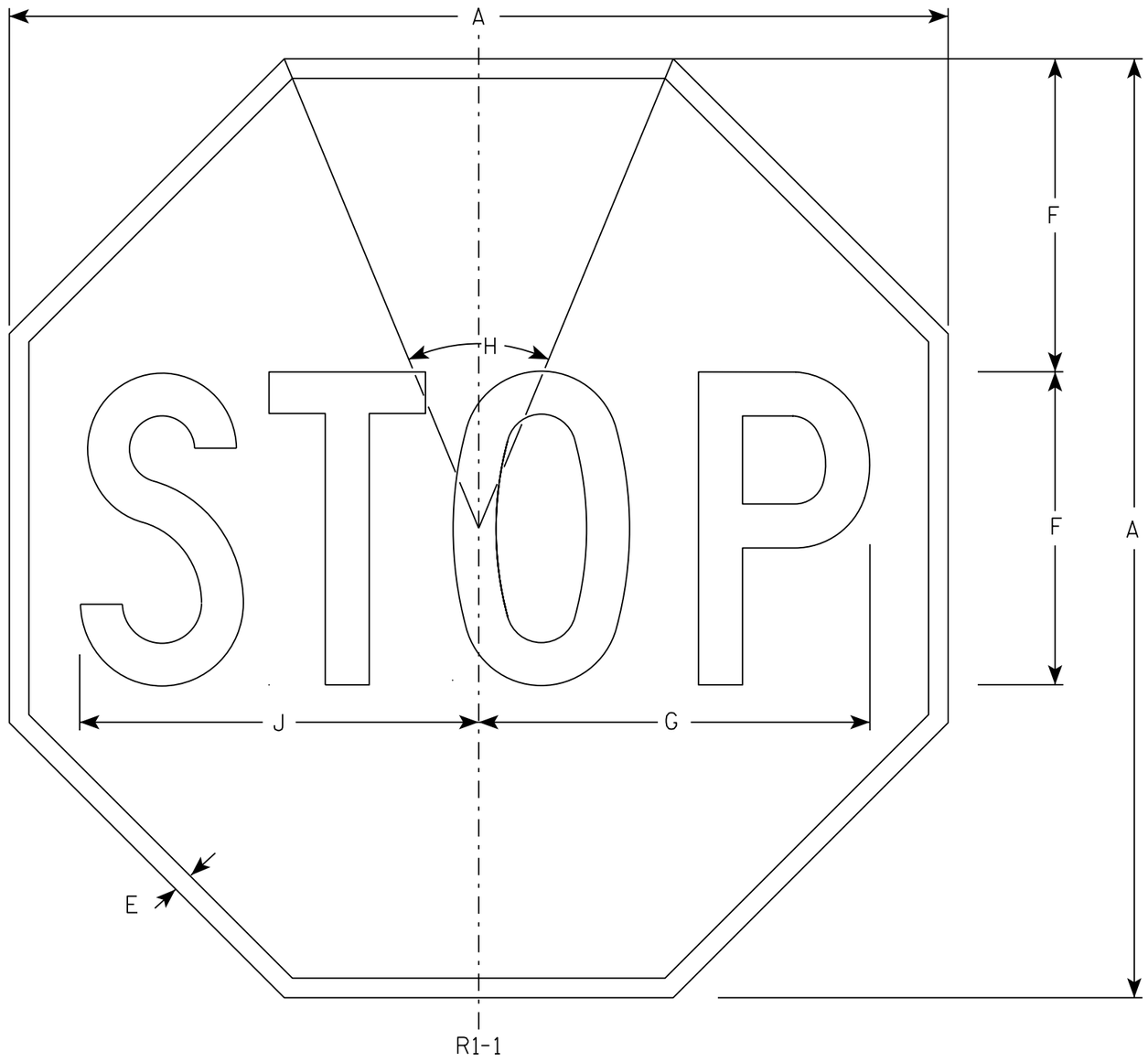
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 203 M6-1.15

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 01-DEC-2015 17:57 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

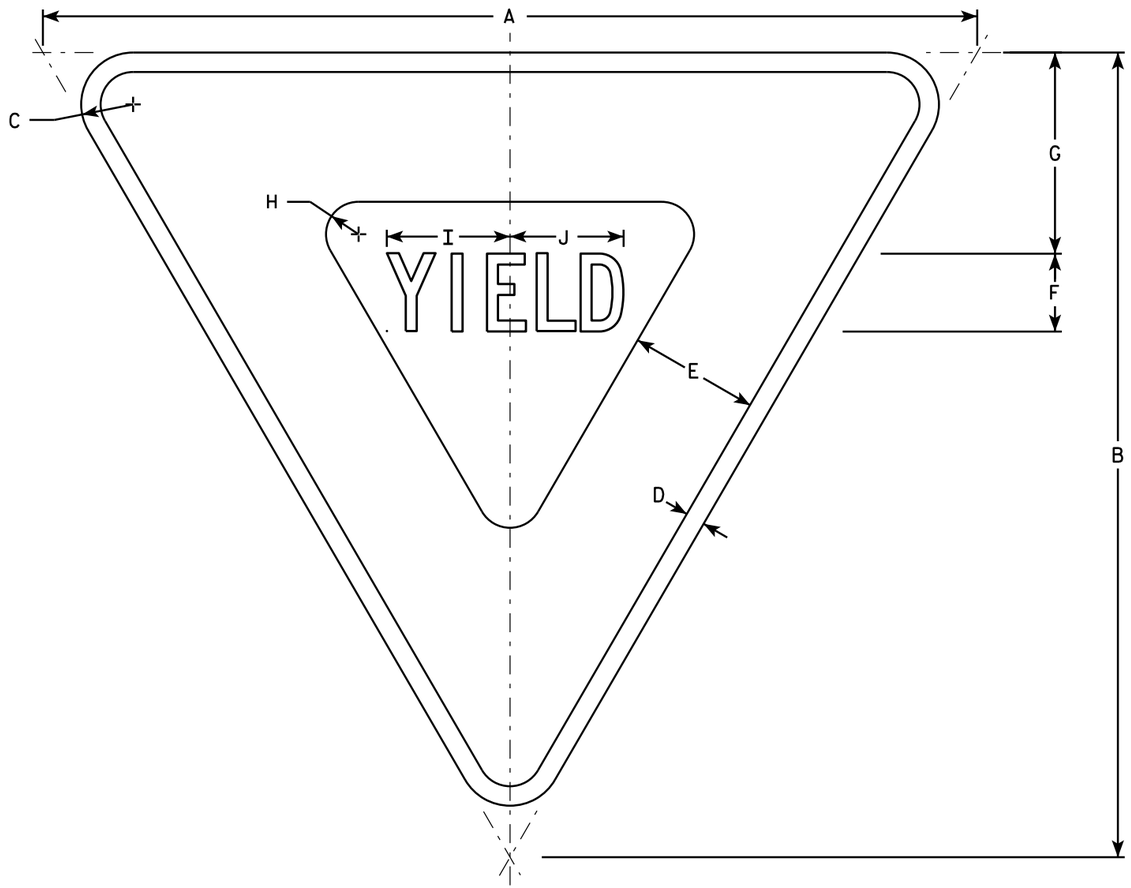
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

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



R1-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The border strip and word message are reflectorized red.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	26	1 1/2	5/8	4	2 1/2	6 3/8	7/8	4	3 5/8																	2.71
2S	36	31	2	3/4	5	3	7 3/4	1 1/4	4 3/4	4 3/8																	3.88
2M	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
3	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
4	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
5	60	52	3	1 1/2	8	5	13	2 1/2	7 7/8	7 1/4																	10.83
6																											
7	18	15 1/2	1	3/8	2 1/2	1 1/2	3 7/8	5/8	2 3/8	2 1/4																	0.97

STANDARD SIGN
R1-2

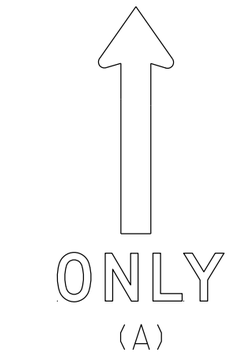
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/13/14 PLATE P1-2.12

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

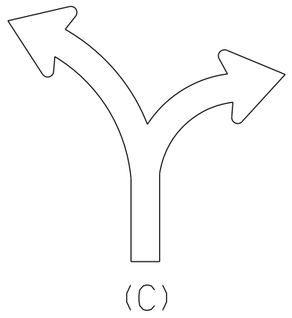
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R12.DGN PLOT DATE : 13-OCT-2014 15:12 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.837526:1.000000
WISDOT/CADDS SHEET 42

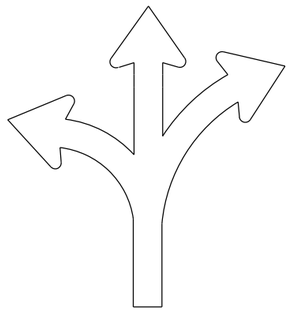


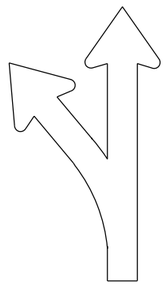
(A)

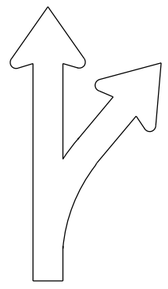


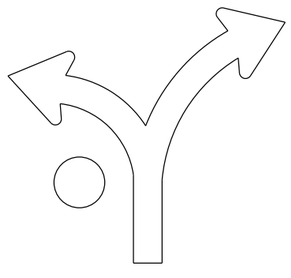
(B)

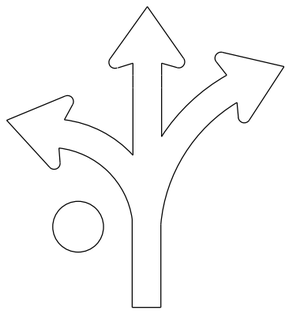

(C)

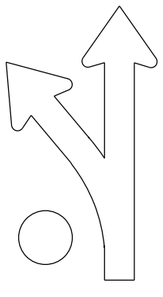

(D)

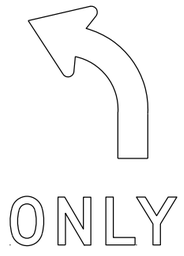

(E)


(F)

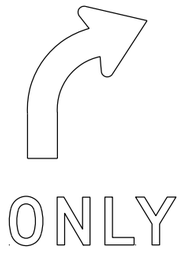

(G)


(H)

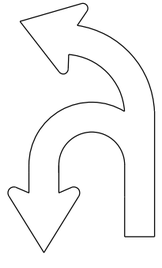

(I)



(L)



(R)


(U)

NOTES

1. Sigs are Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Use appropriate Letter for Sign Code
   Each letter added makes sign wider. Example R3-8EAR
5. Square footage of sign varies by letters

1 Letter =	3.75 sq ft	for Size 2
	6.0 sq ft	for Size 3
	10.0 sq ft	for Size 4 or 5
2 Letters =	7.5 sq ft	for Size 2
	12.0 sq ft	for Size 3
	20.0 sq ft	for Size 4 or 5
3 Letters =	11.25 sq ft	for Size 2
	18.0 sq ft	for Size 3
	30.0 sq ft	for Size 4 or 5
4 Letters =	15.0 sq ft	for Size 2
	24.0 sq ft	for Size 3
	40.0 sq ft	for Size 4 or 5
5 Letters =	18.75 sq ft	for Size 2
	30.0 sq ft	for Size 3
	50.0 sq ft	for Size 4 or 5
6 Letters =	22.5 sq ft	for Size 2
	36.0 sq ft	for Size 3
	60.0 sq ft	for Size 4 or 5

6. When letters C,D,G,H are used on the Left or Right end of the sign the Sq. Ft. changes.
   Add the amounts when these letters are used:
   1.25 sq ft for Size 2
   1.5 sq ft for Size 3
   2.0 sq ft for Size 4 or 5

STANDARD SIGN
R3-8 Series

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

7

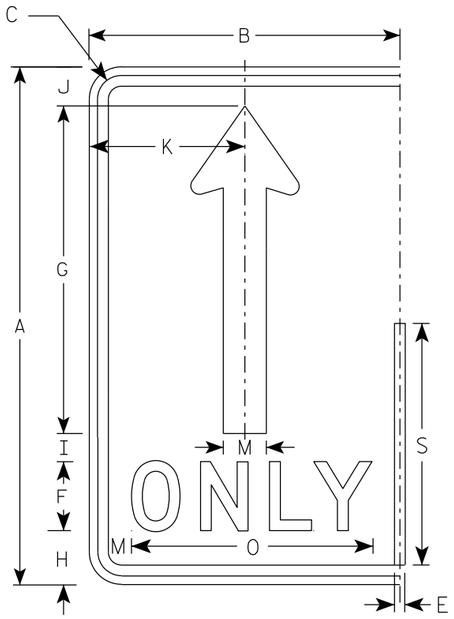
7

PROJECT NO:

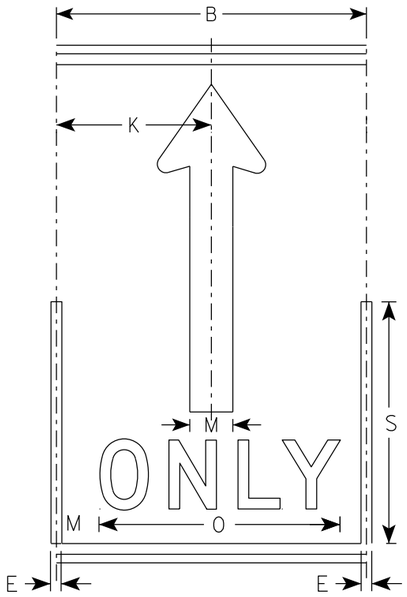
SHEET NO: 206 E

NOTES

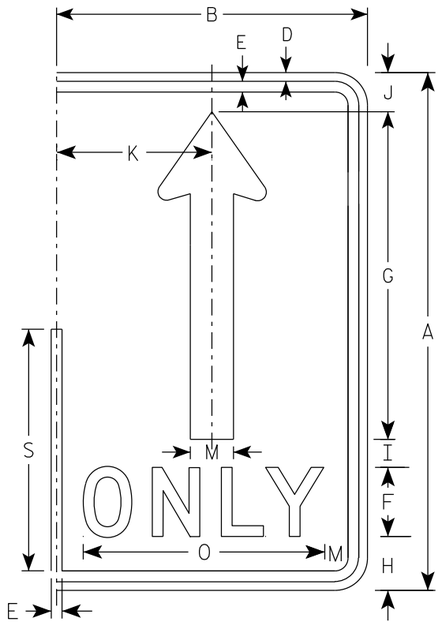
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



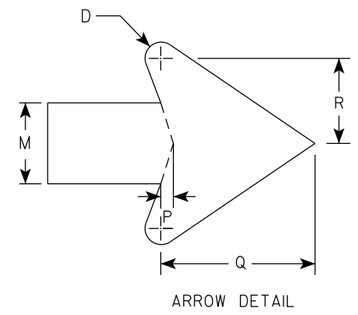
(A)



(A)



(A)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8	4	19	3 1/8	1 5/8	2 1/4	9		2 1/2		14	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8	4	19	3 1/8	1 5/8	2 1/4	9		2 1/2		14	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8	5	22 3/4	3 3/4	1 3/4	2 3/4	12		3		17 5/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1	6	30 3/8	5 1/8	2 7/8	3 5/8	15		4		21 3/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1	6	30 3/8	5 1/8	2 7/8	3 5/8	15		4		21 3/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (A) Arrow

WISCONSIN DEPT OF TRANSPORTATION

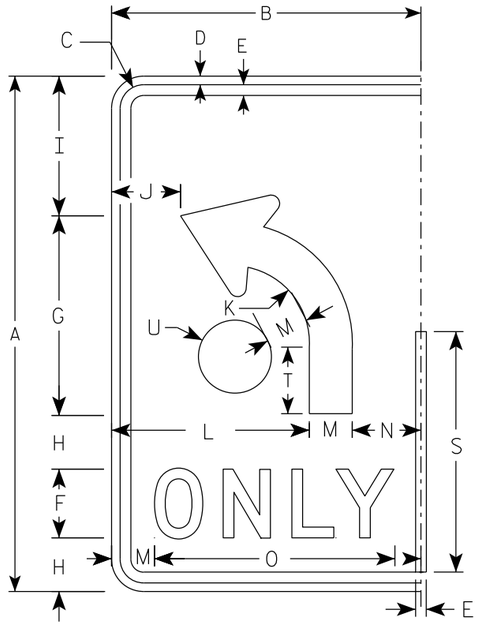
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

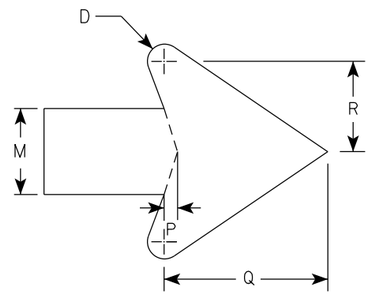
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 207 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
   Message Series - D



(B)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8	2 1/8						3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8	2 1/8						3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8	2 1/2						6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4	3 3/8						10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4	3 3/8						10.0

STANDARD SIGN

R3-8 (B) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

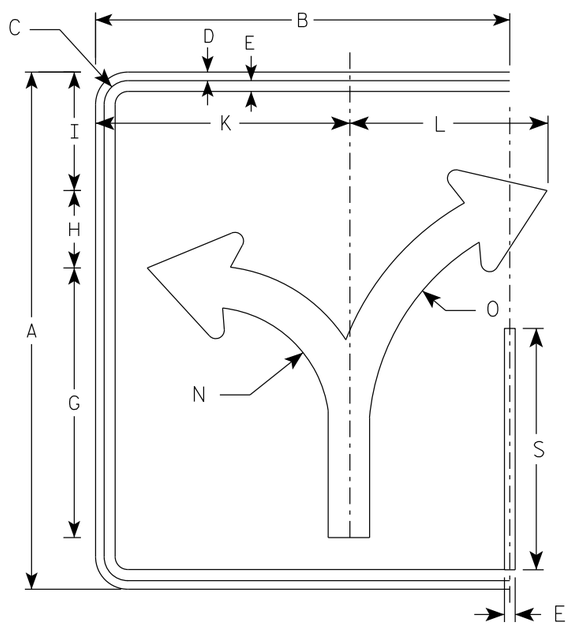
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

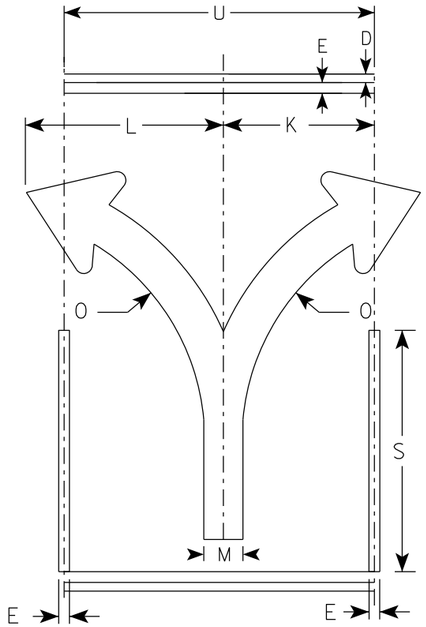
SHEET NO: 208 E

NOTES

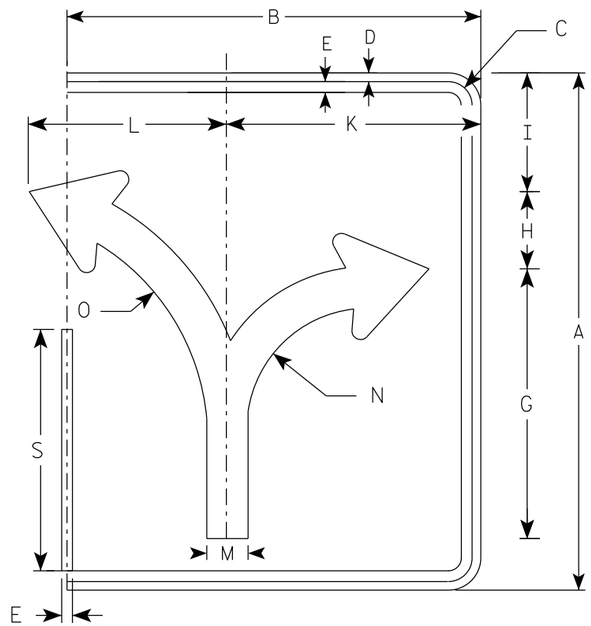
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



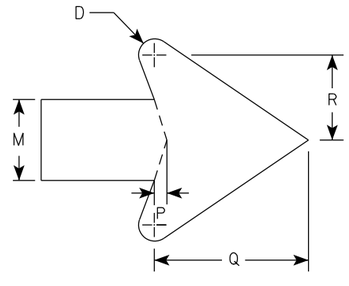
(C)



(C)



(C)



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	ENDS Area sq. ft.	MIDDLE Area sq. ft.
1																												
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	8 1/4		17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		24						7.5	6.0
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0

STANDARD SIGN
R3-8 (C) Arrow

WISCONSIN DEPT OF TRANSPORTATION

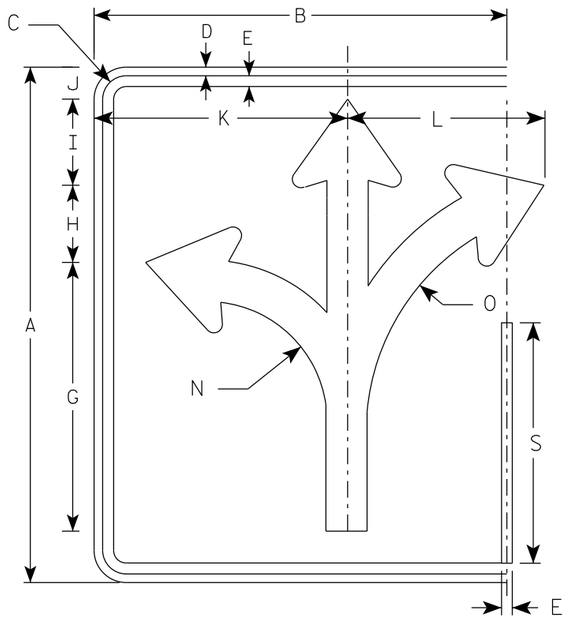
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

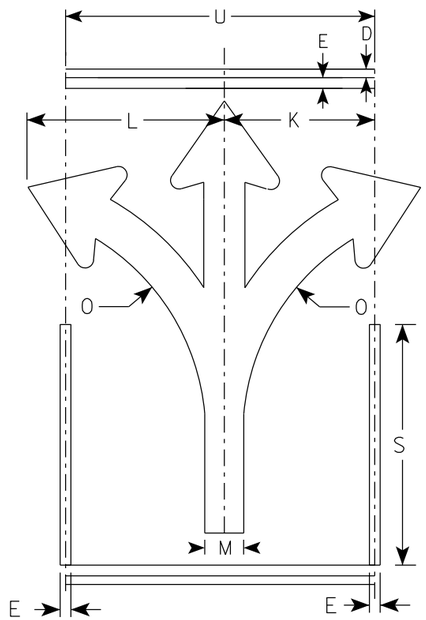
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 209 | E

NOTES

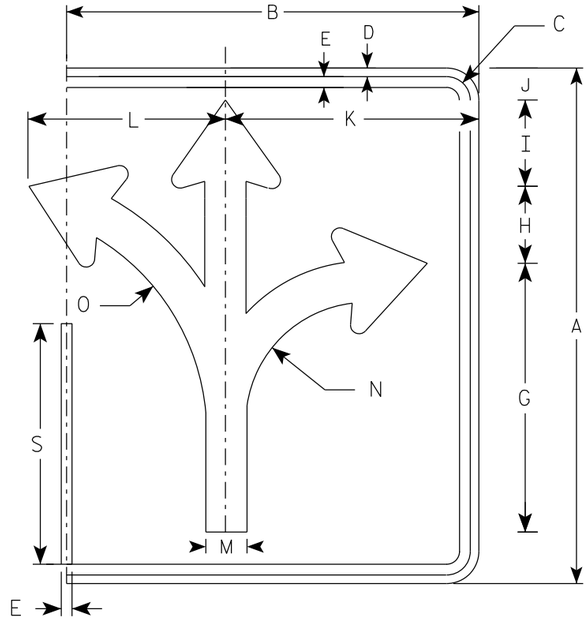
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



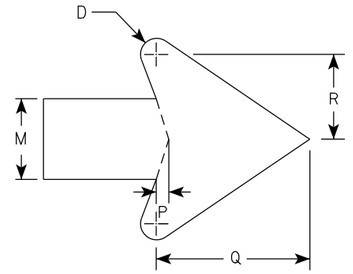
(D)



(D)



(D)



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	ENDS Area sq. ft.	MIDDLE Area sq. ft.
1																												
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	6	2 1/4	17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		24						7.5	6.0
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0

STANDARD SIGN
R3-8 (D) Arrow

WISCONSIN DEPT OF TRANSPORTATION

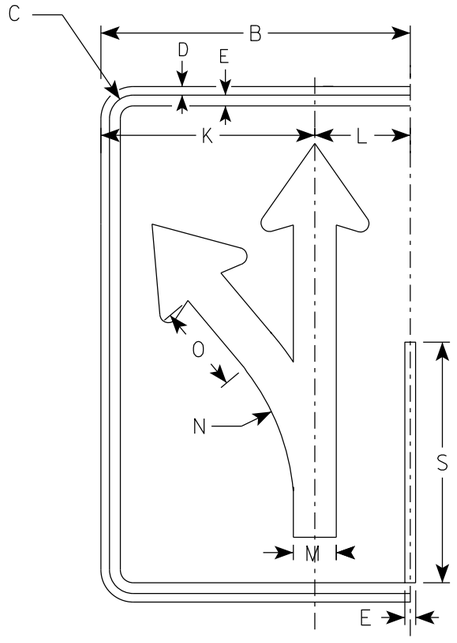
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

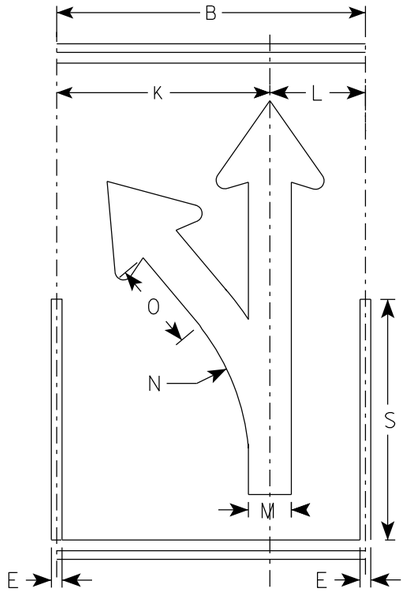
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 210 | E

NOTES

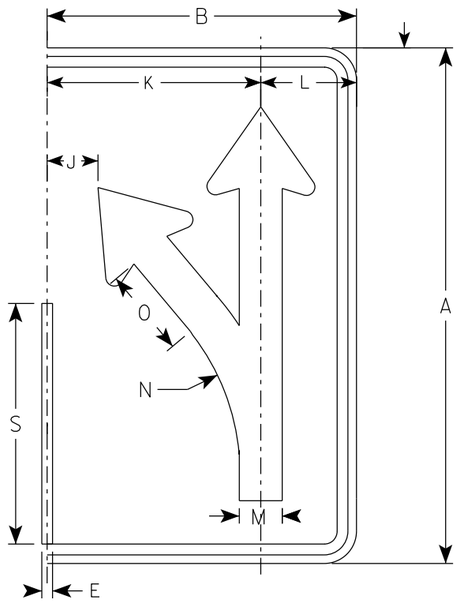
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



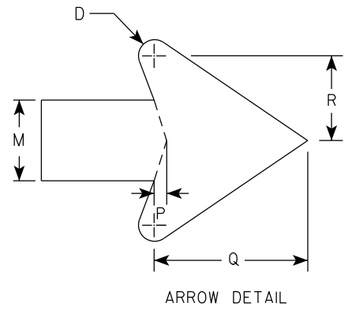
(E)



(E)



(E)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (E) Arrow

WISCONSIN DEPT OF TRANSPORTATION

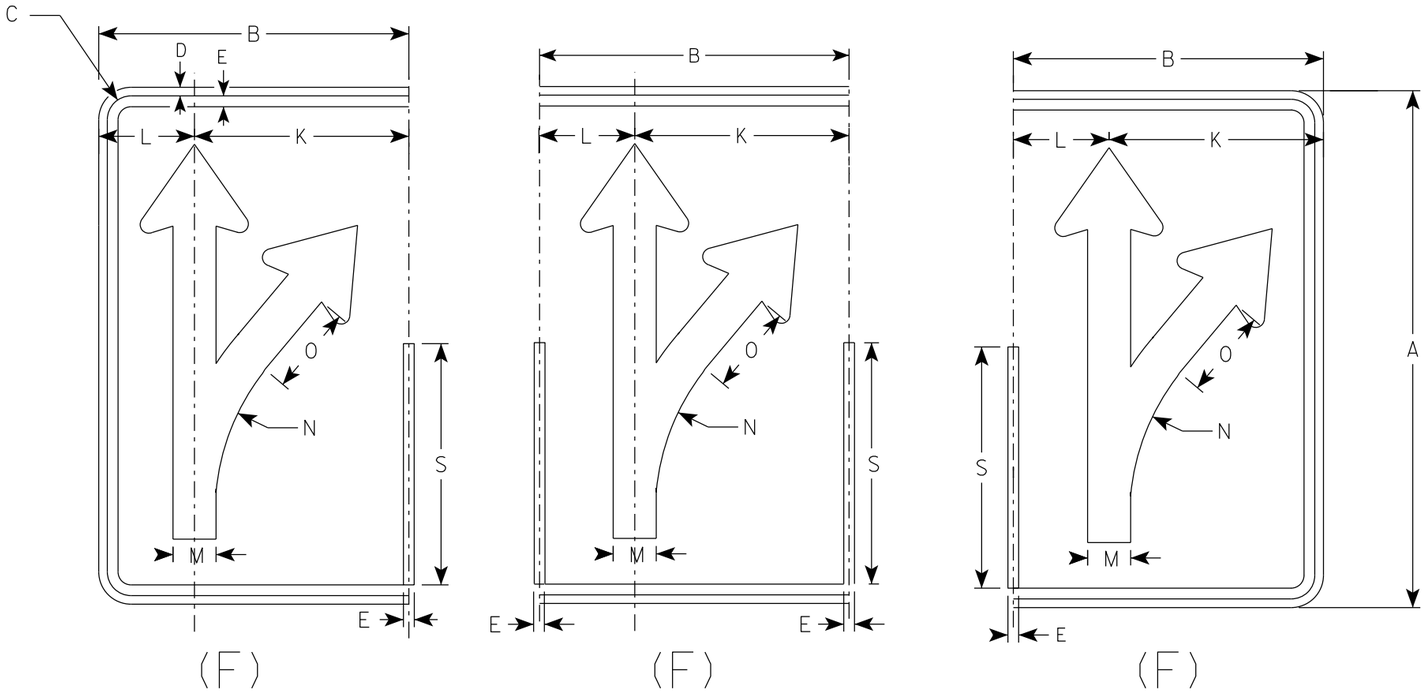
APPROVED Matthew R Rauch
For State Traffic Engineer

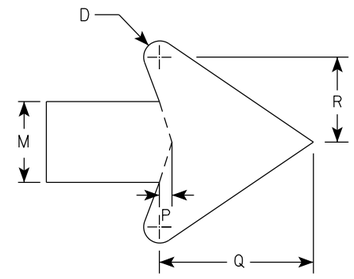
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 211 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None





ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (F) Arrow

WISCONSIN DEPT OF TRANSPORTATION

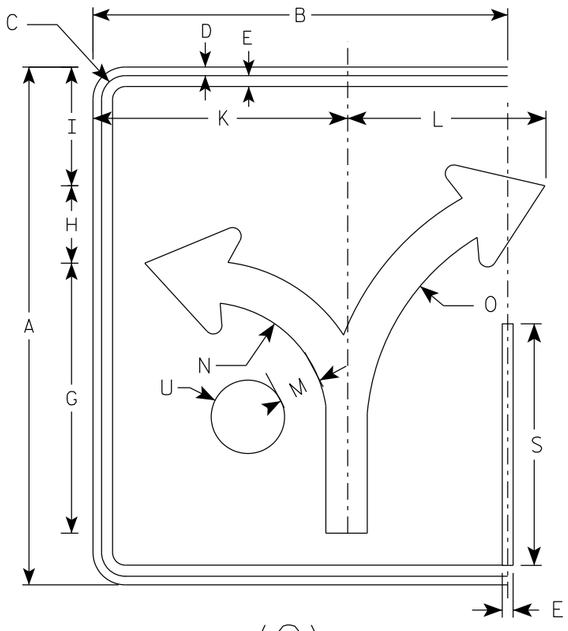
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

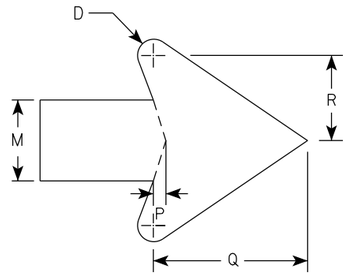
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 212 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(G)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	8 1/4		17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		2 1/2						7.5
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0

STANDARD SIGN
R3-8 (G) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

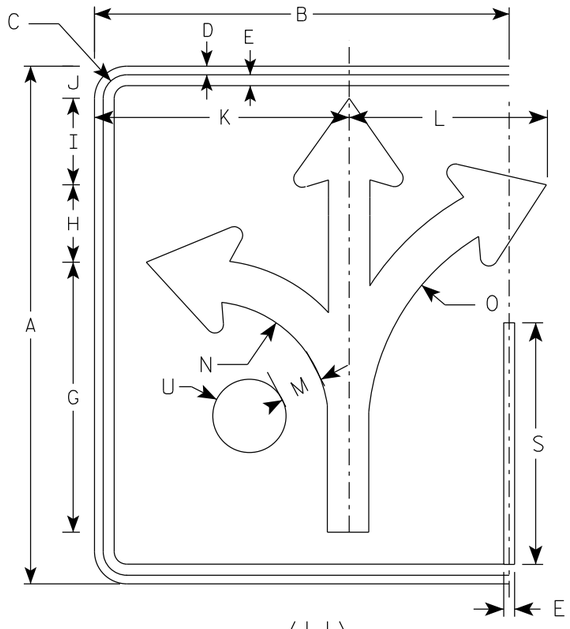
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 213 | E

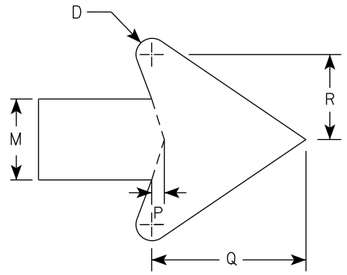
FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn PLOT DATE : 21-MAY 2019 4:38 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(H)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	6	3 1/8	17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		2 1/2						7.5
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0

STANDARD SIGN
R3-8 (H) Arrow

WISCONSIN DEPT OF TRANSPORTATION

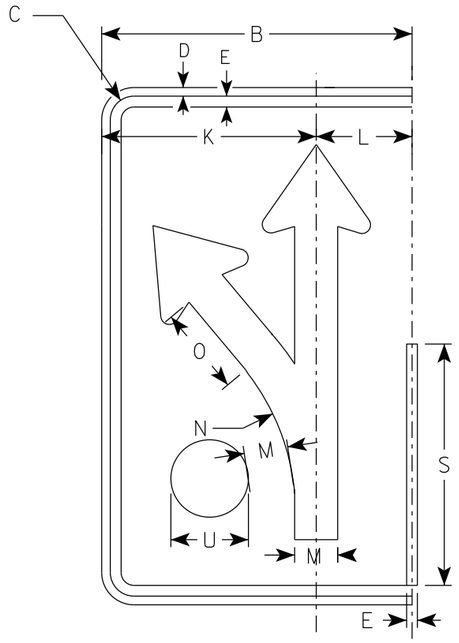
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

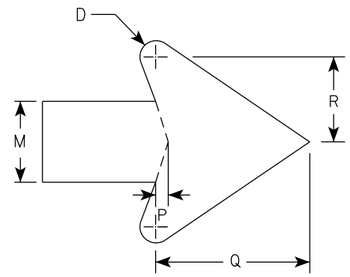
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 214	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(I)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14		2 1/8						3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14		2 1/8						3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4		2 1/2						6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8		3 3/8						10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8		3 3/8						10.0

STANDARD SIGN
R3-8 (I) Arrow

WISCONSIN DEPT OF TRANSPORTATION

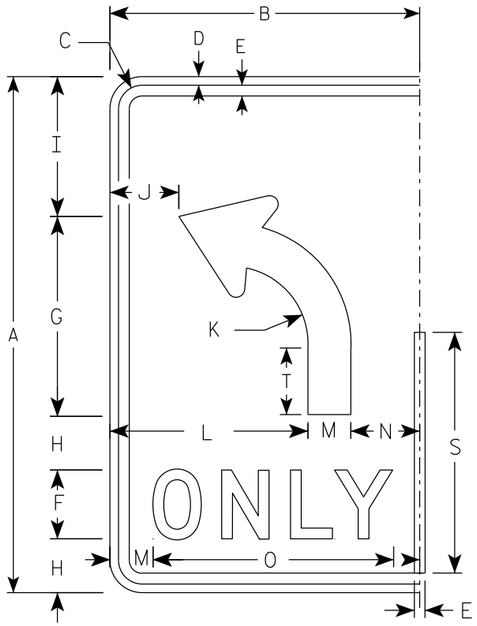
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

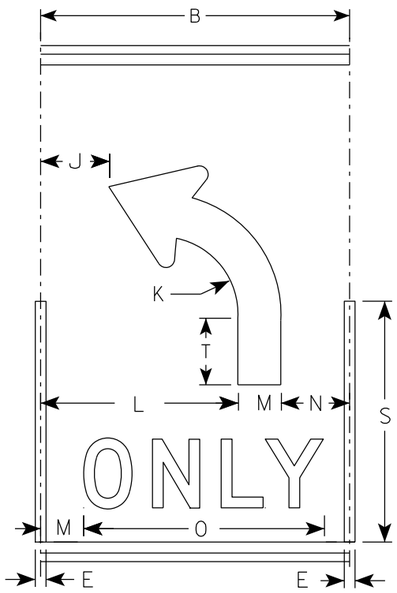
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 215 | E

NOTES

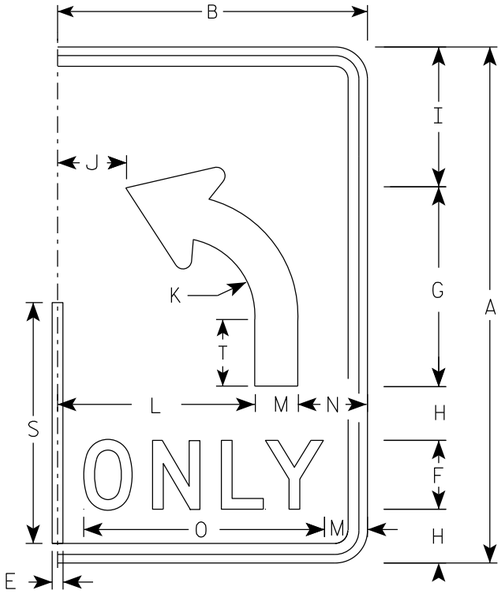
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



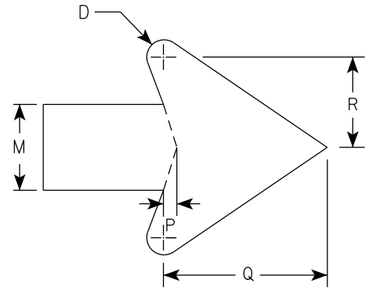
(L)



(L)



(L)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4		5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8							6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0

STANDARD SIGN

R3-8 (L) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

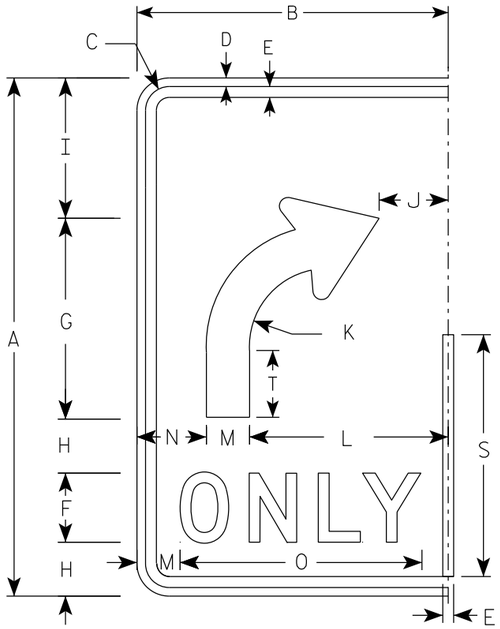
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

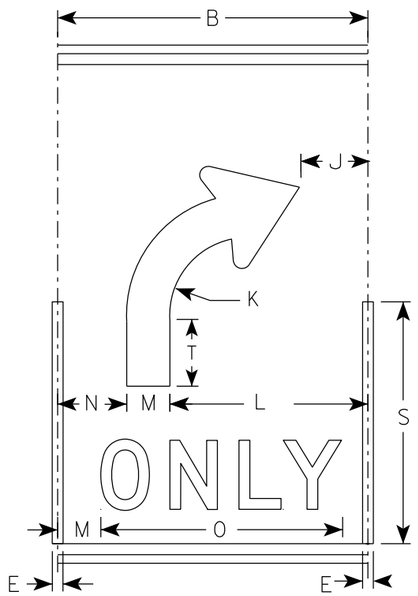
SHEET NO: 216 E

NOTES

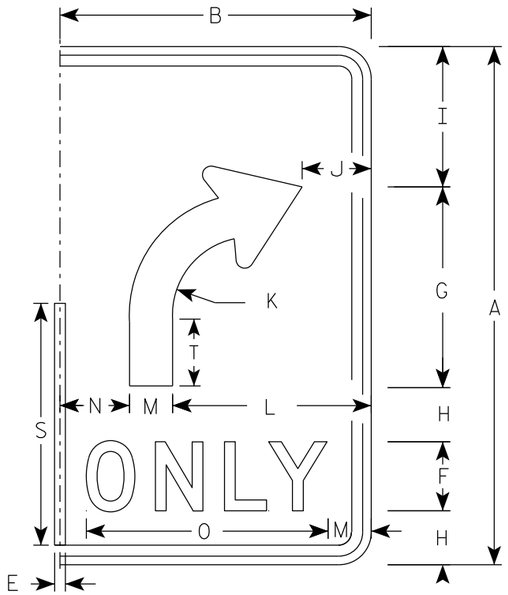
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



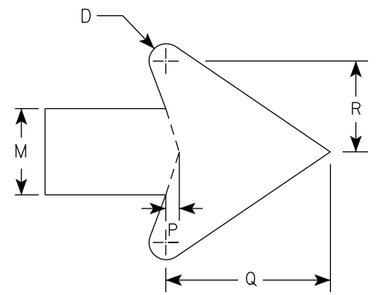
(R)



(R)



(R)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8							6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0

STANDARD SIGN

R3-8 (R) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

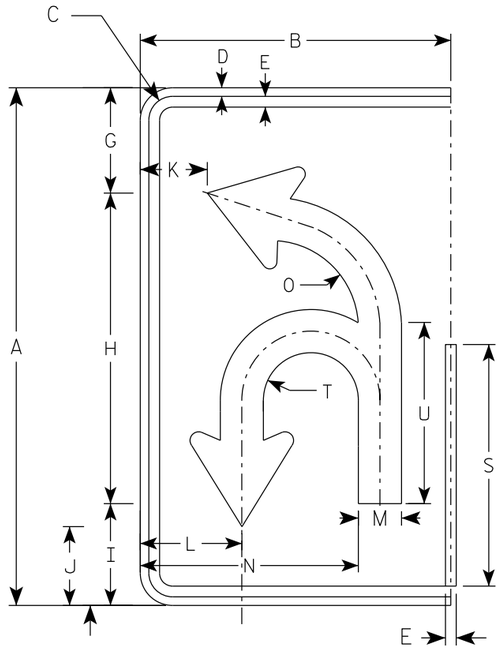
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

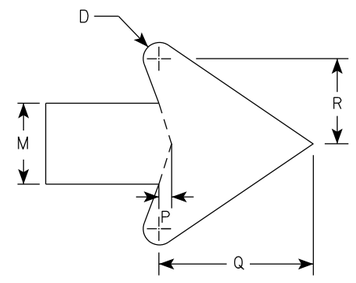
SHEET NO: 217 E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(U)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8		6 1/8	18	5 7/8	4 5/8	3 7/8	5 7/8	2 1/2	12 5/8	5 1/8	3/8	4 3/4	2 5/8	14	2 3/4	10 1/2						3.75
2M	30	18	1 3/8	1/2	5/8		6 1/8	18	5 7/8	4 5/8	3 7/8	5 7/8	2 1/2	12 5/8	5 1/8	3/8	4 3/4	2 5/8	14	2 3/4	10 1/2						3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	21 5/8	7 1/8	5 1/2	5 7/8	8 1/4	3	16 3/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4	3 1/4	12 5/8						6.0
4	48	30	2 1/4	3/4	1		29 1/8	28 3/4	9 3/8	7 1/4	6 7/8	10	4	20 7/8	8 1/8	5/8	7 5/8	4 1/4	22 3/8	4 3/8	16 3/4						10.0
5	48	30	2 1/4	3/4	1		29 1/8	28 3/4	9 3/8	7 1/4	6 7/8	10	4	20 7/8	8 1/8	5/8	7 5/8	4 1/4	22 3/8	4 3/8	16 3/4						10.0

STANDARD SIGN
R3-8 (U) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 218 | E

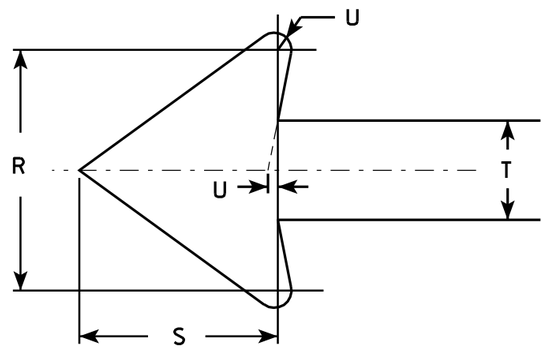


R7-2

*- See Note 5

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 7
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals as required & adjust spacing to achieve proper balance.
6. R7-2D (double arrow)
   R7-2L (left arrow)
   R7-2R (right arrow)
7. Lines 1, 3 and 4 are series C, line 2 is series B.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 7/8	1 1/2	7/8	7/8	2	2 1/2	2	2	4 7/8	4 7/8	3 7/8	1 3/4	1 1/2	3/4	1/8						1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	5 7/8	2 5/8	2 1/4	1 1/8	1/4						3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	7 3/4	3 1/2	3	1 1/2	1/4						5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	7 3/4	3 1/2	3	1 1/2	1/4						5.0
4																											
5																											

STANDARD SIGN
R7-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-2.9

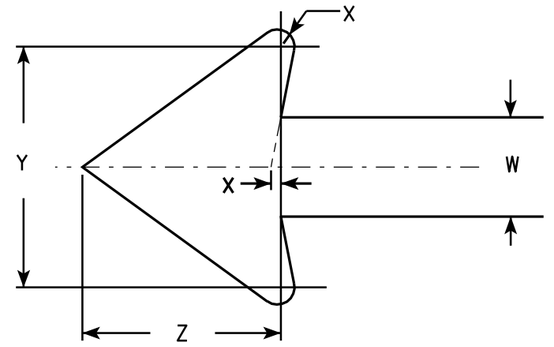
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 219	E



R7-53

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1, 3 and 4 are series C, line 2 is series B.
6. R7-53D (double arrow)
   R7-53L (left arrow)
   R7-53R (right arrow)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2 5/8	1 3/4	1/4	4 1/2	2 3/8	3 7/8	3/4	1/8	1 3/4	1 1/2	1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	3 3/8	1 1/2	5/8	5 3/8	3	5 7/8	1 1/8	1/4	2 5/8	2 1/4	3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	4	2	5/8	6 5/8	3 5/8	7 3/4	1 1/2	1/4	3 1/2	3	5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	4	2	5/8	6 5/8	3 5/8	7 3/4	1 1/2	1/4	3 1/2	3	5.0
4																											
5																											

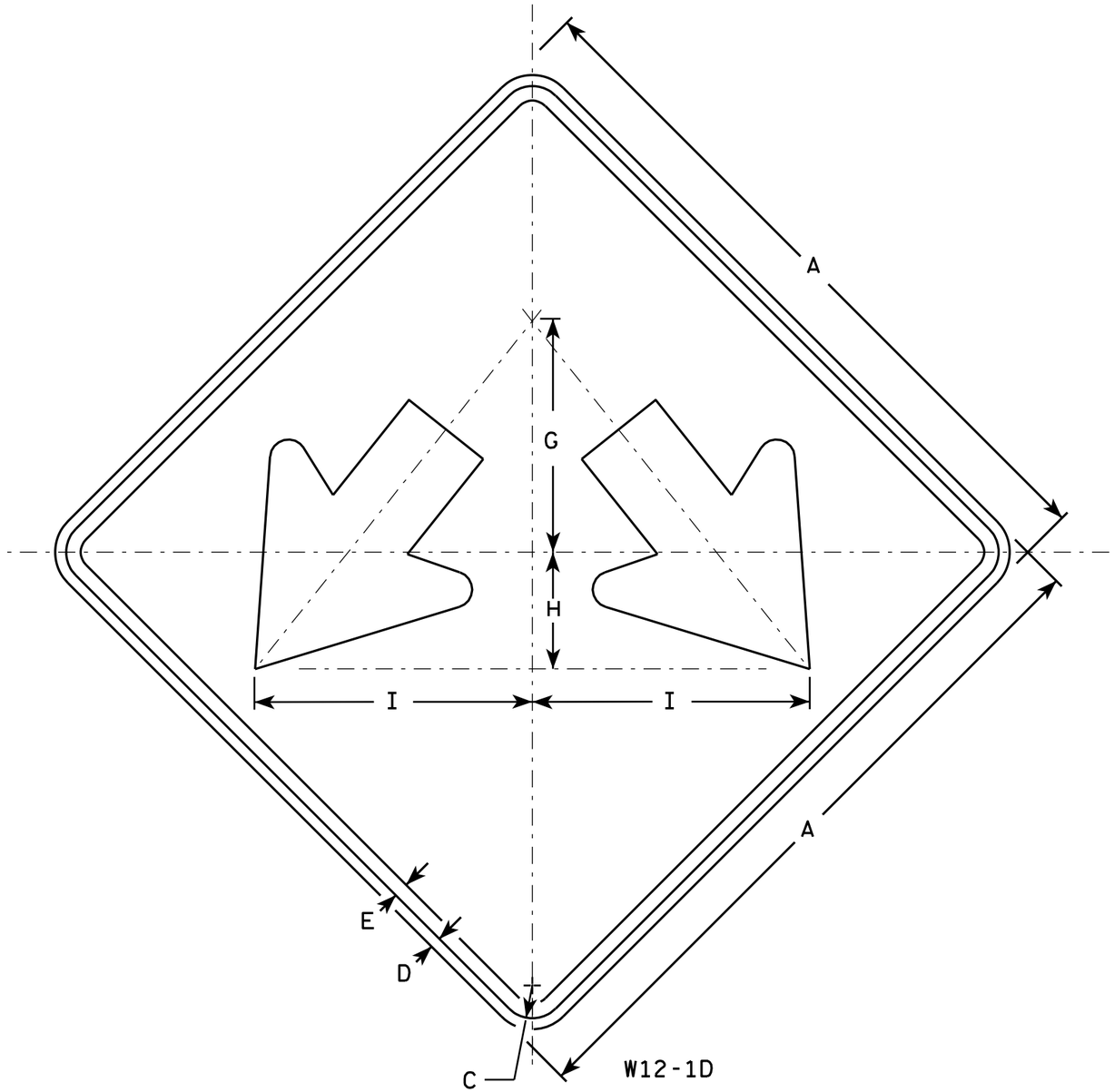
STANDARD SIGN
R7-53

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

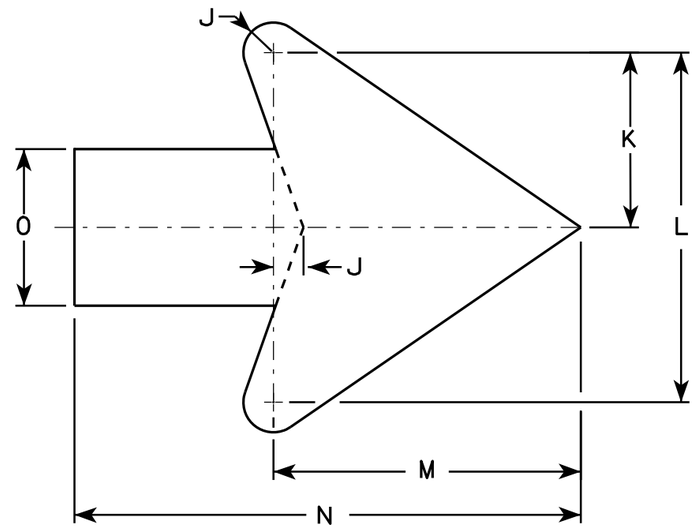
DATE 3/31/2011 PLATE NO. R7-53.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 220	E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 3/8	1/2	5/8		10	5	11 7/8	3/4	4 1/2	9	7 7/8	13	4												6.25
4	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0
5	48		2 1/4	3/4	1		16	8	19	1 1/4	7 1/4	14 1/2	12 3/4	21	6 1/4												16.0

STANDARD SIGN
W12-1D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W12-1D.15

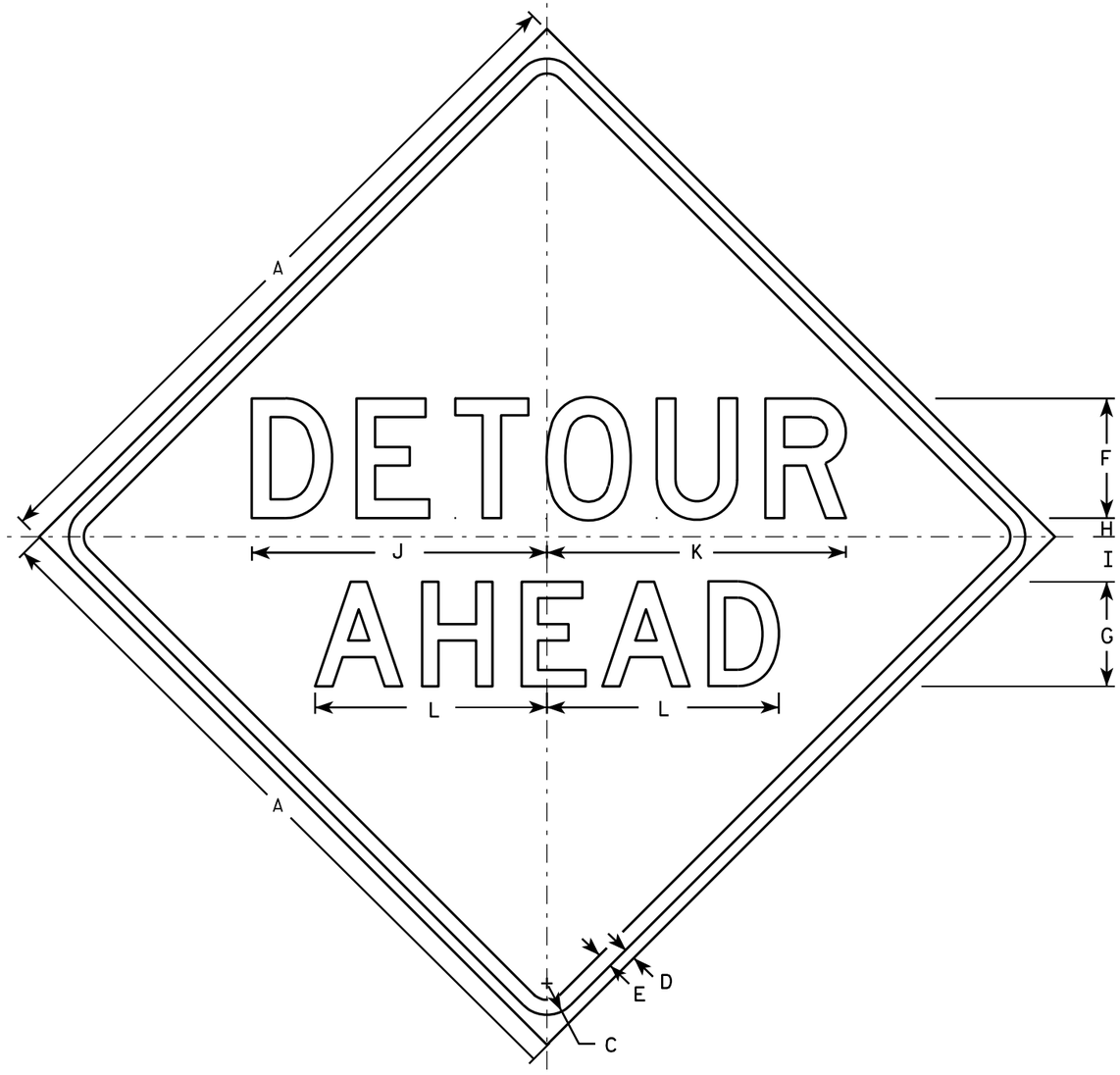
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 221	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W121D.DGN PLOT DATE : 13-MAR-2013 13:26 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 4.713802:1.000000

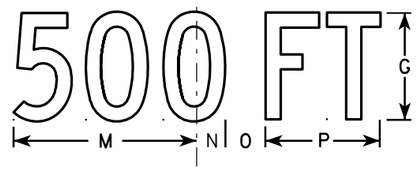
WISDOT/CADDS SHEET 42

7

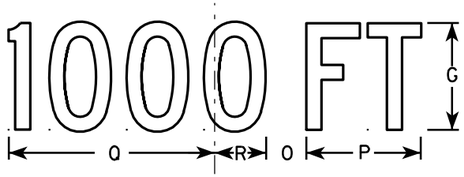
7



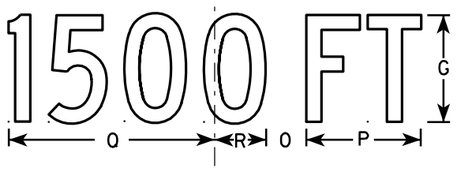
W20-2A



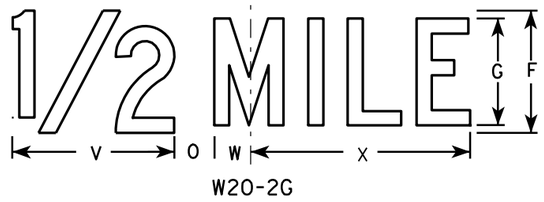
W20-2D



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: 222 | E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W202.DGN PLOT DATE : 18-MAR-2011 10:00 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.931739:1.000000
WISDOT/CADDS SHEET 42

DIVISION 1 - NWATERST

STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)				
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT 1.00	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.00	REDUCED EBS IN FILL 1.00	MASS ORDINATE
							NOTE 1	NOTE 2	NOTE 3		NOTE 1		NOTE 5	NOTE 7	NOTE 8
9+00.00	900.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0
9+25.00	925.00	25.00	70.97	0.00	0.00	0.00	33	0	0	0	33	0	0	0	33
9+50.00	950.00	25.00	74.91	0.00	0.00	0.00	68	0	0	0	101	0	0	0	101
10+00.00	1000.00	50.00	39.93	0.00	0.00	0.00	106	0	0	0	207	0	0	0	207
10+50.00	1050.00	50.00	52.57	0.00	0.00	0.00	86	0	0	0	293	0	0	0	293
11+00.00	1100.00	50.00	65.10	0.00	0.00	0.00	109	0	0	0	402	0	0	0	402
11+25.00	1125.00	25.00	65.10	0.00	0.00	0.00	60	0	0	0	462	0	0	0	462
11+50.00	1150.00	25.00	66.06	0.00	0.00	0.00	61	0	0	0	523	0	0	0	523
11+90.00	1190.00	40.00	68.39	0.00	0.00	0.00	100	0	0	0	623	0	0	0	623
12+00.00	1200.00	10.00	65.09	0.00	0.00	0.00	25	0	0	0	648	0	0	0	648
12+50.00	1250.00	50.00	57.33	0.00	0.00	0.00	113	0	0	0	761	0	0	0	761
13+00.00	1300.00	50.00	53.96	0.00	0.00	0.00	103	0	0	0	864	0	0	0	864
13+50.00	1350.00	50.00	79.38	0.00	0.00	0.00	123	0	0	0	987	0	0	0	987
13+64.00	1364.00	14.00	84.97	0.00	0.00	0.00	43	0	0	0	1,030	0	0	0	1,030
14+00.00	1400.00	36.00	75.43	0.00	0.00	0.00	107	0	0	0	1,137	0	0	0	1,137
14+50.00	1450.00	50.00	80.94	0.00	0.00	0.00	145	0	0	0	1,282	0	0	0	1,282
15+00.00	1500.00	50.00	67.29	0.00	0.00	0.00	137	0	0	0	1,419	0	0	0	1,419
15+50.00	1550.00	50.00	55.06	0.00	0.14	0.00	113	0	0	0	1,532	0	0	0	1,532
16+00.00	1600.00	50.00	70.72	0.00	0.00	0.00	116	0	0	0	1,648	0	0	0	1,648
16+50.00	1650.00	50.00	83.80	0.00	0.00	0.00	143	0	0	0	1,791	0	0	0	1,791
16+61.00	1661.00	11.00	83.70	0.00	0.00	0.00	34	0	0	0	1,825	0	0	0	1,825
17+00.00	1700.00	39.00	65.99	0.00	0.07	0.00	108	0	0	0	1,933	0	0	0	1,933
17+50.00	1750.00	50.00	61.02	0.00	0.00	0.00	118	0	0	0	2,051	0	0	0	2,051
18+00.00	1800.00	50.00	55.13	0.00	0.15	0.00	108	0	0	0	2,159	0	0	0	2,159
18+50.00	1850.00	50.00	57.78	0.00	0.00	0.00	105	0	0	0	2,264	0	0	0	2,264
19+00.00	1900.00	50.00	71.48	0.00	0.00	0.00	120	0	0	0	2,384	0	0	0	2,384
19+50.00	1950.00	50.00	74.47	0.00	0.00	0.00	135	0	0	0	2,519	0	0	0	2,519
20+00.00	2000.00	50.00	77.85	0.00	0.00	0.00	141	0	0	0	2,660	0	0	0	2,660
20+50.00	2050.00	50.00	71.21	0.00	0.00	0.00	138	0	0	0	2,798	0	0	0	2,798
21+00.00	2100.00	50.00	66.31	0.00	0.00	0.00	127	0	0	0	2,925	0	0	0	2,925
21+50.00	2150.00	50.00	73.45	0.00	0.00	0.00	129	0	0	0	3,054	0	0	0	3,054
22+00.00	2200.00	50.00	74.56	0.00	0.00	0.00	137	0	0	0	3,191	0	0	0	3,191
22+50.00	2250.00	50.00	76.05	0.00	0.00	0.00	139	0	0	0	3,330	0	0	0	3,330
23+00.00	2300.00	50.00	64.61	0.00	0.00	0.00	130	0	0	0	3,460	0	0	0	3,460
23+50.00	2350.00	50.00	66.99	0.00	0.00	0.00	122	0	0	0	3,582	0	0	0	3,582
24+00.00	2400.00	50.00	65.54	0.00	0.00	0.00	123	0	0	0	3,705	0	0	0	3,705
24+50.00	2450.00	50.00	57.84	0.00	0.00	0.00	114	0	0	0	3,819	0	0	0	3,819
25+00.00	2500.00	50.00	50.35	0.00	0.00	0.00	100	0	0	0	3,919	0	0	0	3,919
25+50.00	2550.00	50.00	74.03	0.00	0.00	0.00	115	0	0	0	4,034	0	0	0	4,034
25+75.00	2575.00	25.00	43.35	0.00	0.00	0.00	54	0	0	0	4,088	0	0	0	4,088
26+00.00	2600.00	25.00	0.00	0.00	0.00	0.00	20	0	0	0	4,108	0	0	0	4,108

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	CUT - UNUSABLE PAVEMENT MATERIAL - (FILL * FILL FACTOR)

9

9

PROJECT NO: 6996-04-72 | HWY: N WATER STREET | COUNTY: WAUPACA | EARTHWORK DATA | SHEET 223 | E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\09-EW\WATERST-EW.DWG
LAYOUT NAME - 01

PLOT DATE : 11/1/2023 2:18 PM PLOT BY : JOSH FREWERD PLOT NAME : PLOT SCALE : 1" = 1'

DIVISION 1 - PEARLST

STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)				
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT 1.00	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.00	REDUCED EBS IN FILL 1.00	MASS ORDINATE
							NOTE 1	NOTE 2	NOTE 3		NOTE 1		NOTE 5	NOTE 7	NOTE 8
64+28.00	6428.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0
64+29.00	6429.00	1.00	73.36	0.00	2.64	0.00	1	0	0	0	1	0	0	0	1
64+50.00	6450.00	21.00	66.51	0.00	0.00	0.00	54	0	1	0	55	1	0	0	54
64+85.00	6485.00	35.00	73.97	0.00	0.00	0.00	91	0	0	0	146	1	0	0	145
65+00.00	6500.00	15.00	78.77	0.00	0.00	0.00	42	0	0	0	188	1	0	0	187
65+50.00	6550.00	50.00	102.77	0.00	0.00	0.00	168	0	0	0	356	1	0	0	355
66+00.00	6600.00	50.00	39.54	0.00	0.00	0.00	132	0	0	0	488	1	0	0	487
66+02.00	6602.00	2.00	0.00	0.00	0.00	0.00	1	0	0	0	489	1	0	0	488
66+35.00	6635.00	33.00	0.00	0.00	0.00	0.00	0	0	0	0	489	1	0	0	488
66+37.00	6637.00	2.00	74.86	0.00	0.38	0.00	3	0	0	0	492	1	0	0	491
66+50.00	6650.00	13.00	58.36	0.00	0.13	0.00	32	0	0	0	524	1	0	0	523
67+00.00	6700.00	50.00	60.35	0.00	0.00	0.00	110	0	0	0	634	1	0	0	633
67+35.00	6735.00	35.00	63.10	0.00	0.00	0.00	80	0	0	0	714	1	0	0	713
67+50.00	6750.00	15.00	66.96	0.00	0.00	0.00	36	0	0	0	750	1	0	0	749
68+00.00	6800.00	50.00	71.94	0.00	0.00	0.00	129	0	0	0	879	1	0	0	878
68+50.00	6850.00	50.00	72.77	0.00	0.00	0.00	134	0	0	0	1,013	1	0	0	1,012
68+82.00	6882.00	32.00	51.69	0.00	0.00	0.00	74	0	0	0	1,087	1	0	0	1,086
69+00.00	6900.00	18.00	60.72	0.00	0.00	0.00	37	0	0	0	1,124	1	0	0	1,123
69+50.00	6950.00	50.00	70.25	0.00	0.00	0.00	121	0	0	0	1,245	1	0	0	1,244
69+70.00	6970.00	20.00	60.28	0.00	0.96	0.00	48	0	0	0	1,293	1	0	0	1,292
70+00.00	7000.00	30.00	65.07	0.00	0.26	0.00	70	0	1	0	1,363	3	0	0	1,361
70+25.00	7025.00	25.00	67.00	0.00	0.00	0.00	61	0	0	0	1,424	3	0	0	1,422
70+50.00	7050.00	25.00	74.75	0.00	0.00	0.00	66	0	0	0	1,490	3	0	0	1,488
70+75.00	7075.00	25.00	75.11	0.00	0.00	0.00	69	0	0	0	1,559	3	0	0	1,557
71+00.00	7100.00	25.00	103.75	0.00	0.00	0.00	83	0	0	0	1,642	3	0	0	1,640
71+25.00	7125.00	25.00	0.00	0.00	0.00	0.00	48	0	0	0	1,690	3	0	0	1,688

DIVISION 1 - SHAWANO STREET

STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)				
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT 1.00	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.00	REDUCED EBS IN FILL 1.00	MASS ORDINATE
							NOTE 1	NOTE 2	NOTE 3		NOTE 1		NOTE 5	NOTE 7	NOTE 8
99+39.00	9939.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0
99+41.00	9941.00	2.00	64.80	0.00	0.00	0.00	2	0	0	0	2	0	0	0	2
99+50.00	9950.00	9.00	68.72	0.00	0.00	0.00	22	0	0	0	24	0	0	0	24
99+81.00	9981.00	31.00	63.50	0.00	5.57	0.00	76	0	3	0	100	4	0	0	96
99+83.00	9983.00	2.00	0.00	0.00	0.00	0.00	2	0	0	0	102	4	0	0	98
100+00.00	10000.00	17.00	0.00	0.00	0.00	0.00	0	0	0	0	102	4	0	0	98
100+17.00	10017.00	17.00	0.00	0.00	0.00	0.00	0	0	0	0	102	4	0	0	98
100+19.00	10019.00	2.00	129.30	0.00	0.52	0.00	5	0	0	0	107	4	0	0	103
100+50.00	10050.00	31.00	117.69	0.00	0.00	0.00	142	0	0	0	249	4	0	0	245
101+00.00	10100.00	50.00	72.58	0.00	0.00	0.00	176	0	0	0	425	4	0	0	421
101+02.00	10102.00	2.00	0.00	0.00	0.00	0.00	3	0	0	0	428	4	0	0	424

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	CUT - UNUSABLE PAVEMENT MATERIAL - (FILL * FILL FACTOR)

9

9

PROJECT NO: 6996-04-72 | HWY: N WATER STREET | COUNTY: WAUPACA | EARTHWORK DATA | SHEET 224 | E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\09-EW\WATERST-EW.DWG
LAYOUT NAME - 02

PLOT DATE : 11/1/2023 2:18 PM PLOT BY : JOSH FREWERD PLOT NAME : PLOT SCALE : 1" = 1'

WISDOT/CADDS SHEET 49

DIVISION 1 - WISCONSIN STREET

STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)				
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.00 NOTE 5	REDUCED EBS IN FILL 1.00 NOTE 7	MASS ORDINATE NOTE 8
110+17.00	11017.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0
110+19.00	11019.00	2.00	61.84	0.00	0.00	0.00	2	0	0	0	2	0	0	0	2
110+50.00	11050.00	31.00	71.87	0.00	0.00	0.00	77	0	0	0	79	0	0	0	79
110+54.00	11054.00	4.00	70.30	0.00	0.00	0.00	11	0	0	0	90	0	0	0	90
110+56.00	11056.00	2.00	0.00	0.00	0.00	0.00	3	0	0	0	93	0	0	0	93

DIVISION 1 - STATE STREET

STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)				
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.00 NOTE 5	REDUCED EBS IN FILL 1.00 NOTE 7	MASS ORDINATE NOTE 8
120+17.00	12017.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0
120+19.00	12019.00	2.00	89.36	0.00	0.00	0.00	3	0	0	0	3	0	0	0	3
120+50.00	12050.00	31.00	72.24	0.00	0.00	0.00	93	0	0	0	96	0	0	0	96
120+54.00	12054.00	4.00	72.49	0.00	0.00	0.00	11	0	0	0	107	0	0	0	107
120+56.00	12056.00	2.00	0.00	0.00	0.00	0.00	3	0	0	0	110	0	0	0	110

DIVISION - ST. JOHN'S PLACE

STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)				
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.00 NOTE 5	REDUCED EBS IN FILL 1.00 NOTE 7	MASS ORDINATE NOTE 8
140+17.00	14017.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0
140+19.00	14019.00	2.00	75.21	0.00	0.01	0.00	3	0	0	0	3	0	0	0	3
140+50.00	14050.00	31.00	61.55	0.00	0.00	0.00	79	0	0	0	82	0	0	0	82
140+54.00	14054.00	4.00	60.36	0.00	0.00	0.00	9	0	0	0	91	0	0	0	91
140+56.00	14056.00	2.00	0.00	0.00	0.00	0.00	2	0	0	0	93	0	0	0	93

DIVISION 1 - PARK STREET

STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)				
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.00 NOTE 5	REDUCED EBS IN FILL 1.00 NOTE 7	MASS ORDINATE NOTE 8
149+24.00	14924.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0
149+26.00	14926.00	2.00	66.99	0.00	0.00	0.00	2	0	0	0	2	0	0	0	2
149+50.00	14950.00	24.00	70.56	0.00	0.00	0.00	61	0	0	0	63	0	0	0	63
149+81.00	14981.00	31.00	76.85	0.00	0.00	0.00	85	0	0	0	148	0	0	0	148
149+83.00	14983.00	2.00	0.00	0.00	0.00	0.00	3	0	0	0	151	0	0	0	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	CUT - UNUSABLE PAVEMENT MATERIAL - (FILL * FILL FACTOR)

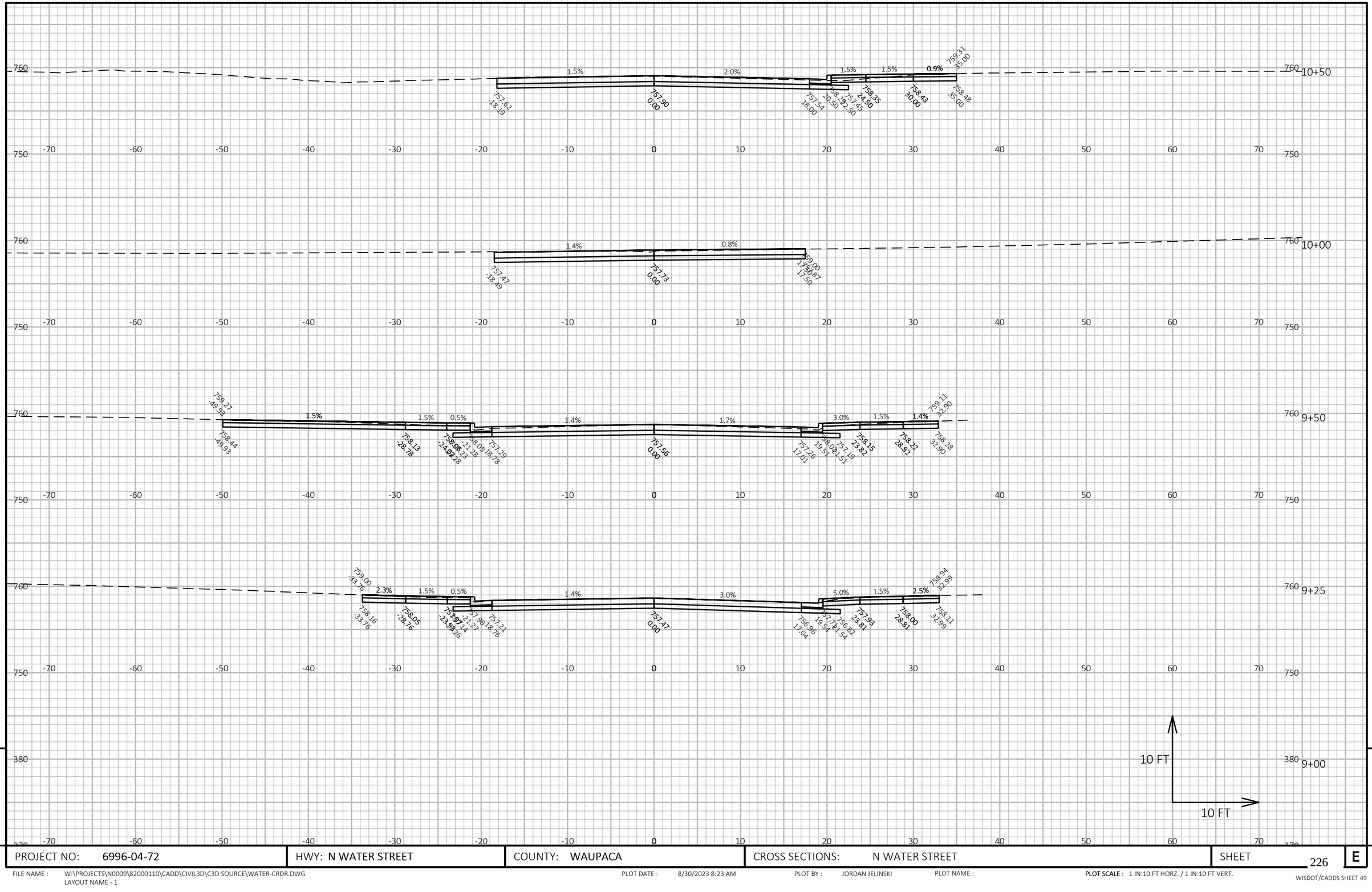
9

9

PROJECT NO: 6996-04-72 | HWY: N WATER STREET | COUNTY: WAUPACA | EARTHWORK DATA | SHEET 225 | E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\PLAN SHEETS\09-EW\WATERST-EW.DWG
LAYOUT NAME - 03

PLOT DATE : 11/1/2023 2:18 PM PLOT BY : JOSH FREWERD PLOT NAME : PLOT SCALE : 1" = 1'



9

9

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	CROSS SECTIONS: N WATER STREET	SHEET 226	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\C3D SOURCE\WATER-CRDR.DWG
LAYOUT NAME - 1

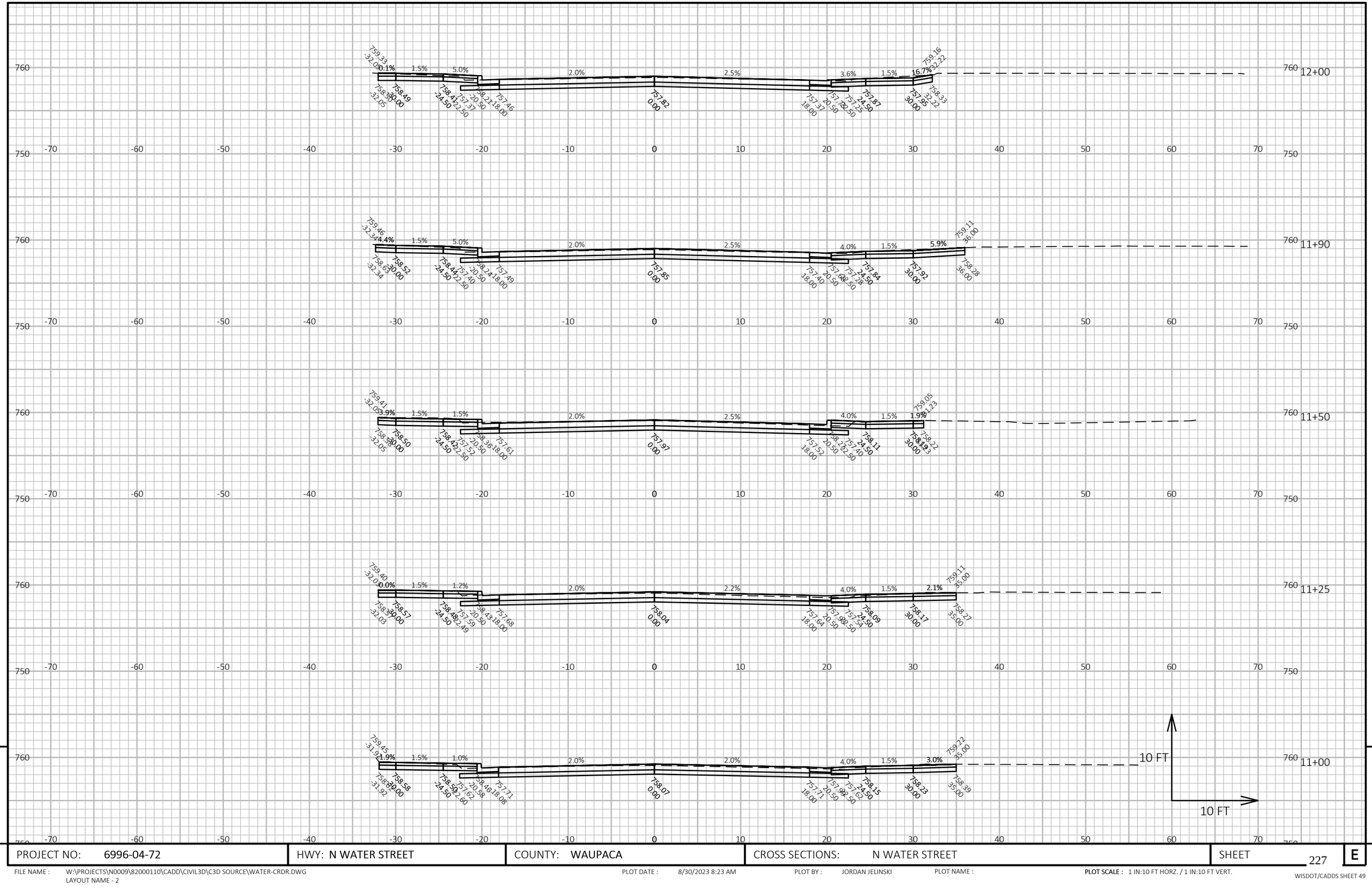
PLOT DATE : 8/30/2023 8:23 AM

PLOT BY : JORDAN JELINSKI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	CROSS SECTIONS: N WATER STREET	SHEET 227	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\C3D SOURCE\WATER-CRDR.DWG
LAYOUT NAME - 2

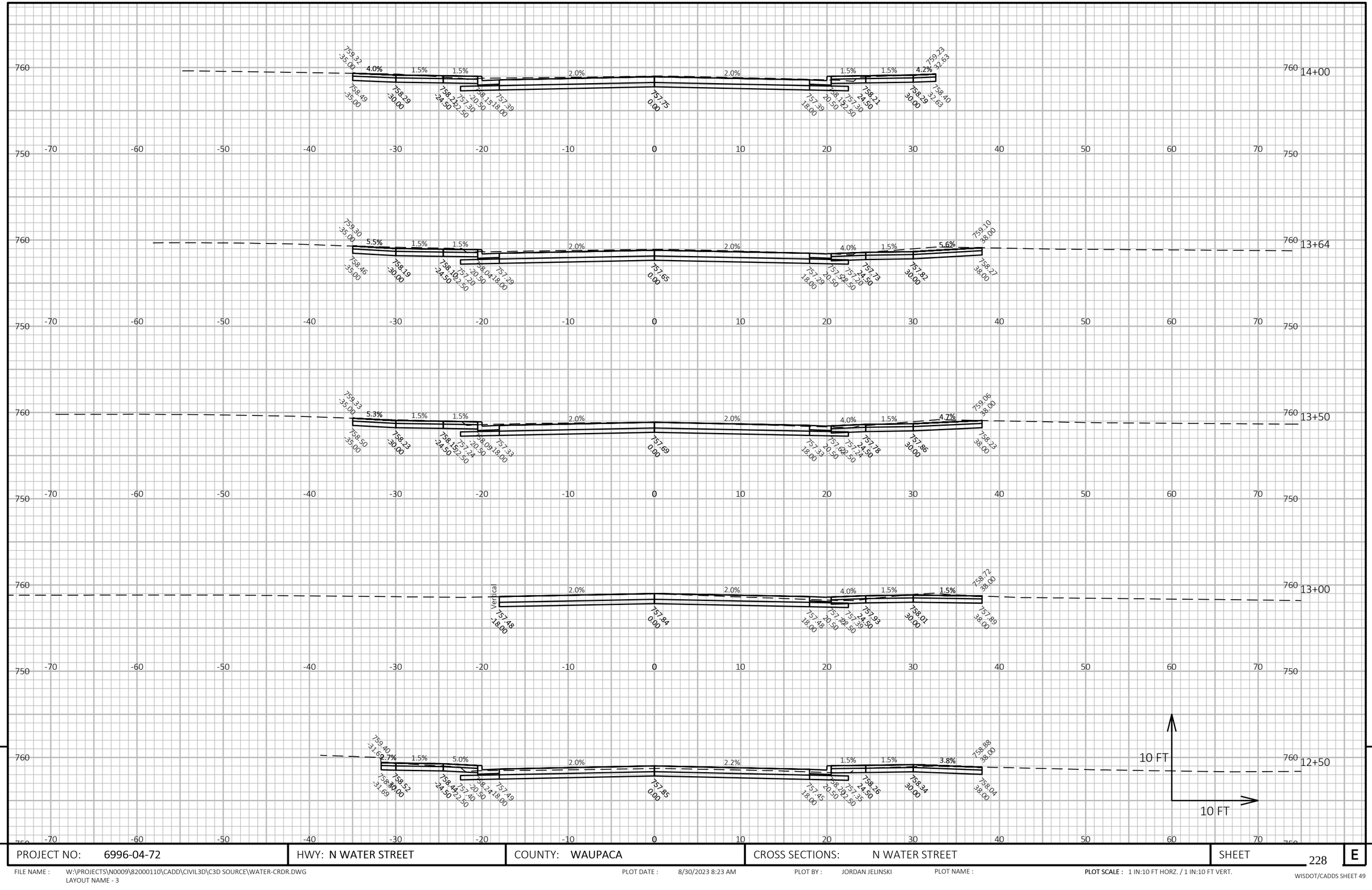
PLOT DATE : 8/30/2023 8:23 AM

PLOT BY : JORDAN JELINSKI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	CROSS SECTIONS: N WATER STREET	SHEET 228	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\C3D SOURCE\WATER-CRDR.DWG
LAYOUT NAME - 3

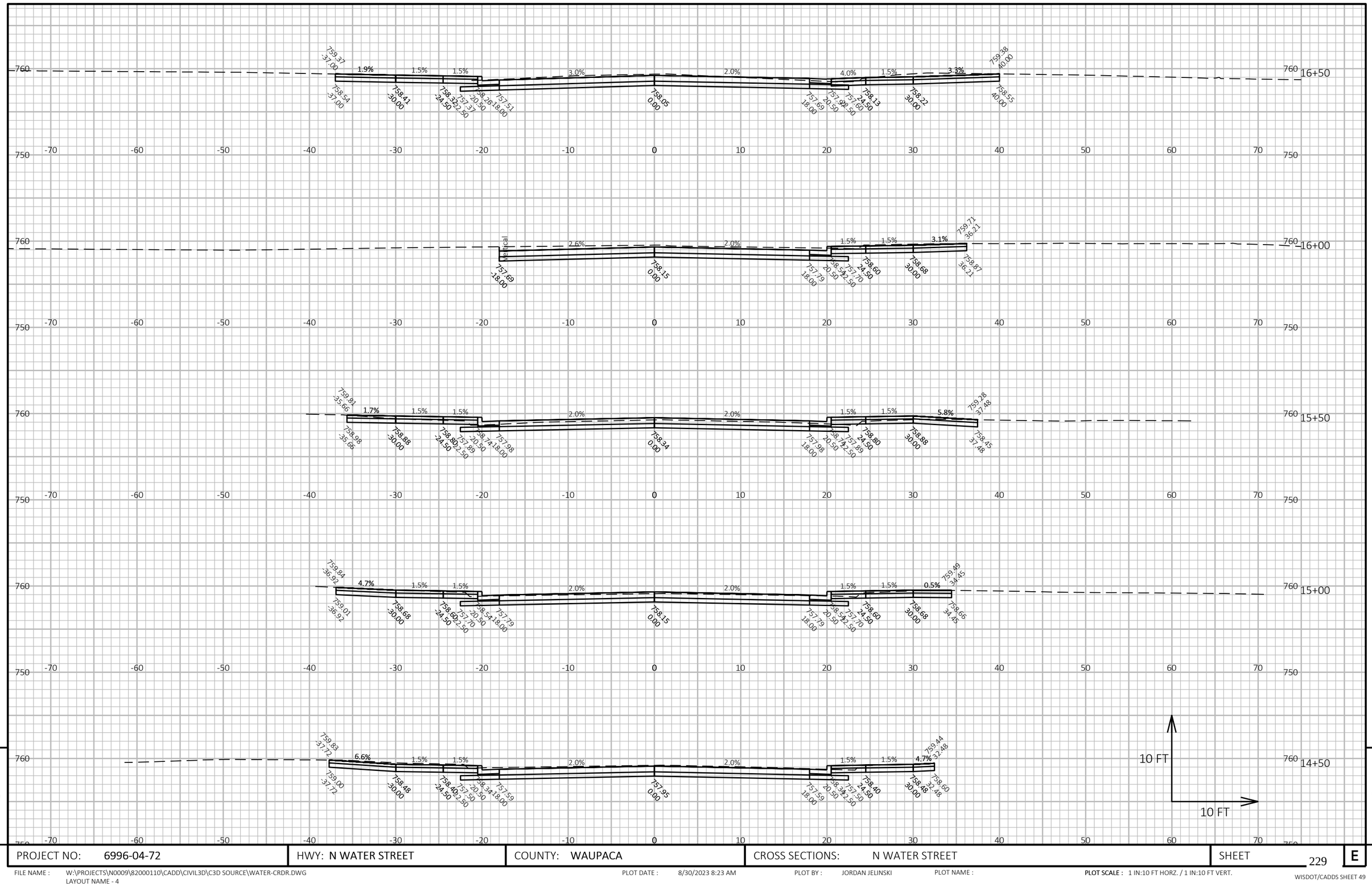
PLOT DATE : 8/30/2023 8:23 AM

PLOT BY : JORDAN JELINSKI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	CROSS SECTIONS: N WATER STREET	SHEET 229	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\C3D SOURCE\WATER-CRDR.DWG
LAYOUT NAME - 4

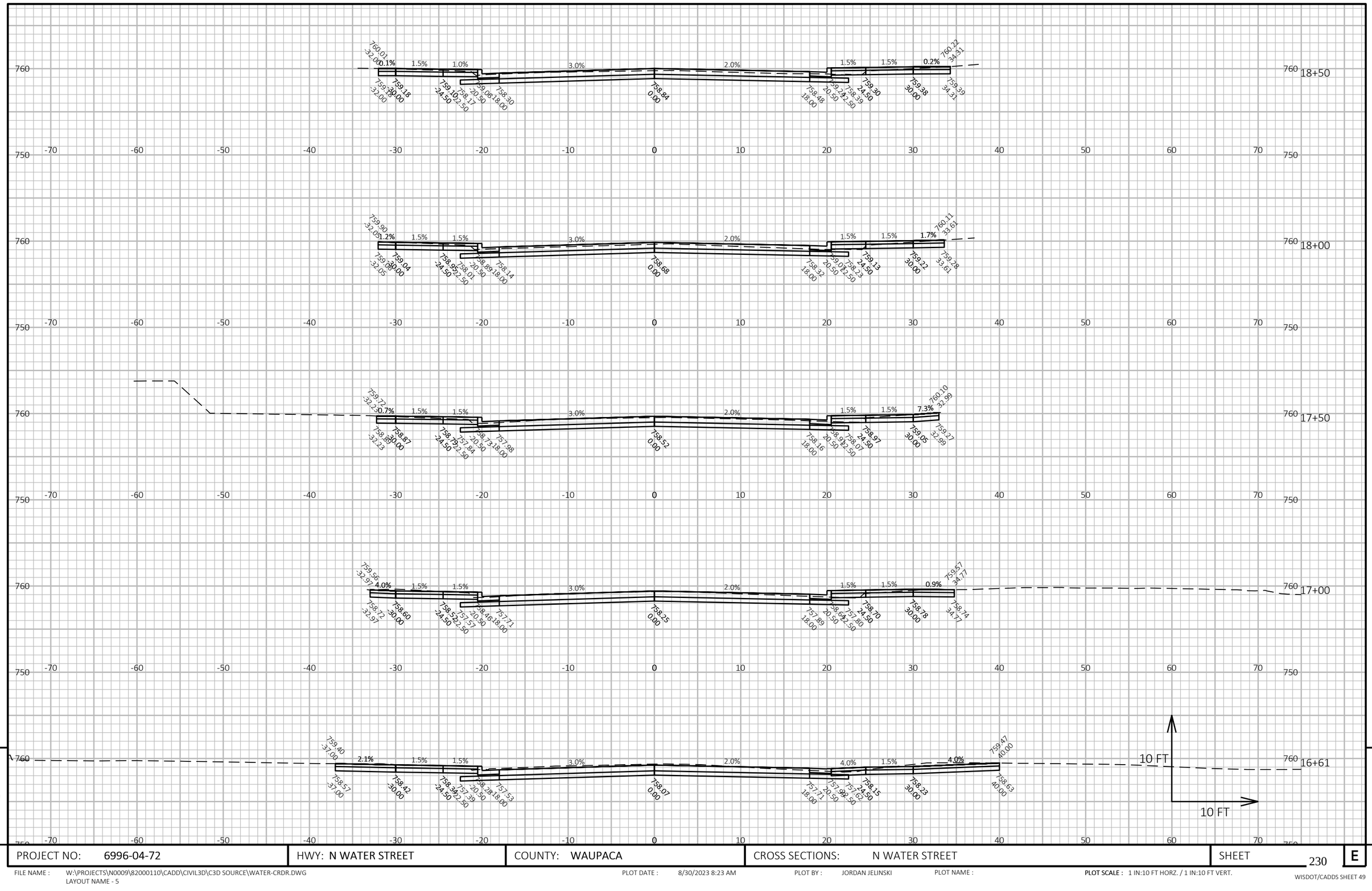
PLOT DATE : 8/30/2023 8:23 AM

PLOT BY : JORDAN JELINSKI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

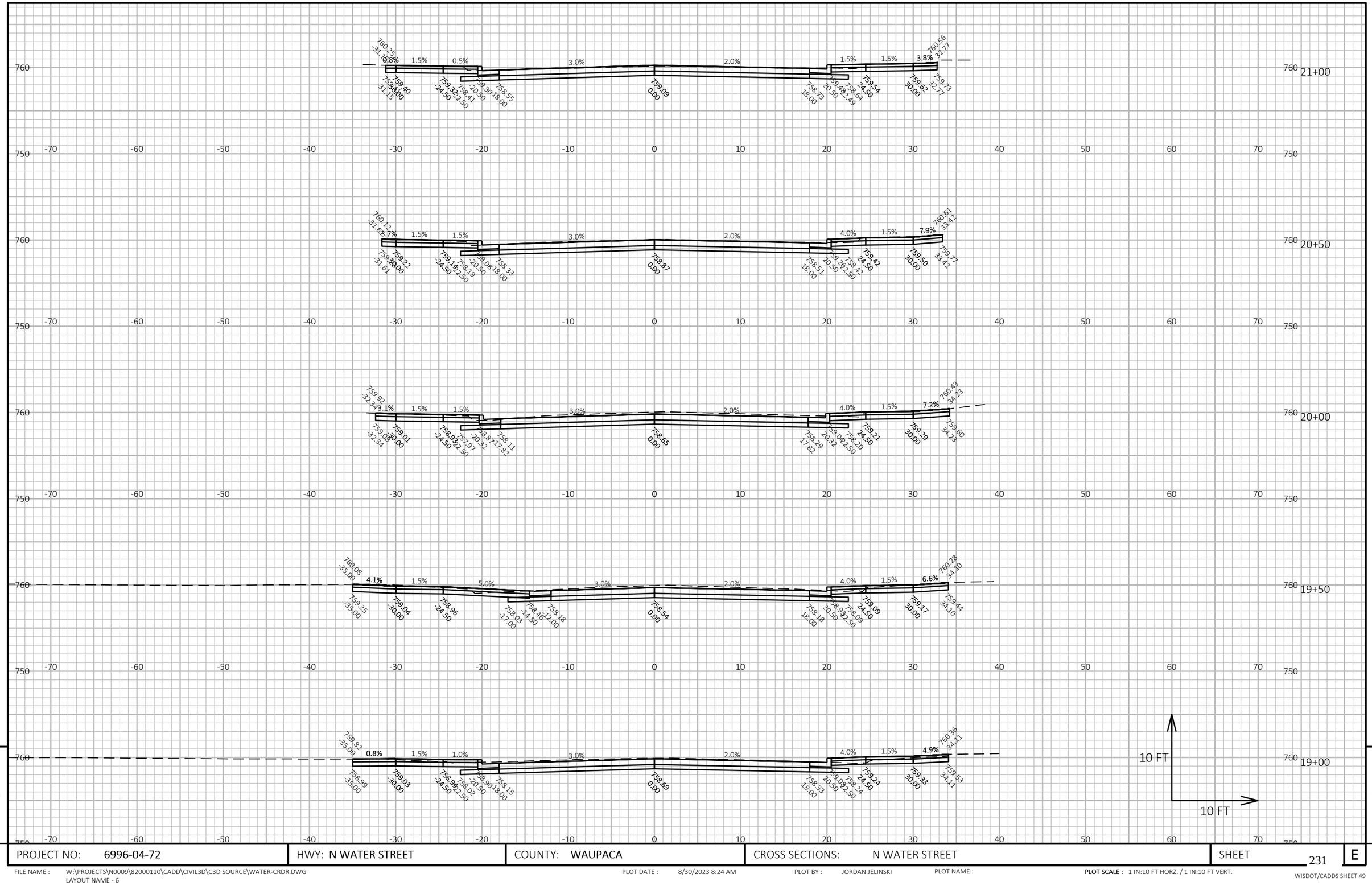


PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	CROSS SECTIONS: N WATER STREET	SHEET 230	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\C3D SOURCE\WATER-CRDR.DWG
LAYOUT NAME - 5

PLOT DATE : 8/30/2023 8:23 AM PLOT BY : JORDAN JELINSKI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

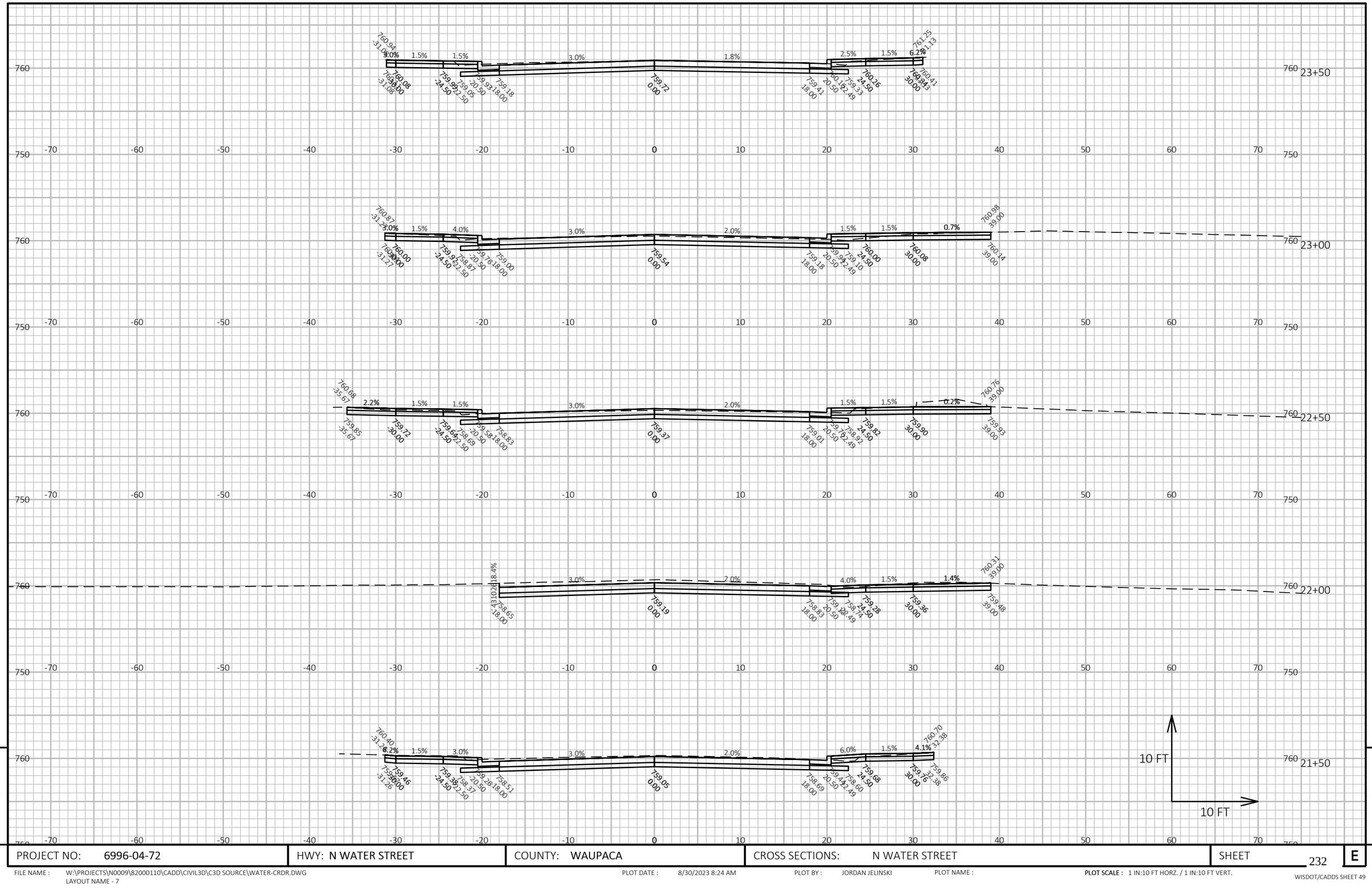


PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	CROSS SECTIONS: N WATER STREET	SHEET 231	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\C3D SOURCE\WATER-CRDR.DWG
LAYOUT NAME - 6

PLOT DATE : 8/30/2023 8:24 AM PLOT BY : JORDAN JELINSKI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	CROSS SECTIONS: N WATER STREET	SHEET 232	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\C3D SOURCE\WATER-CRDR.DWG
LAYOUT NAME - 7

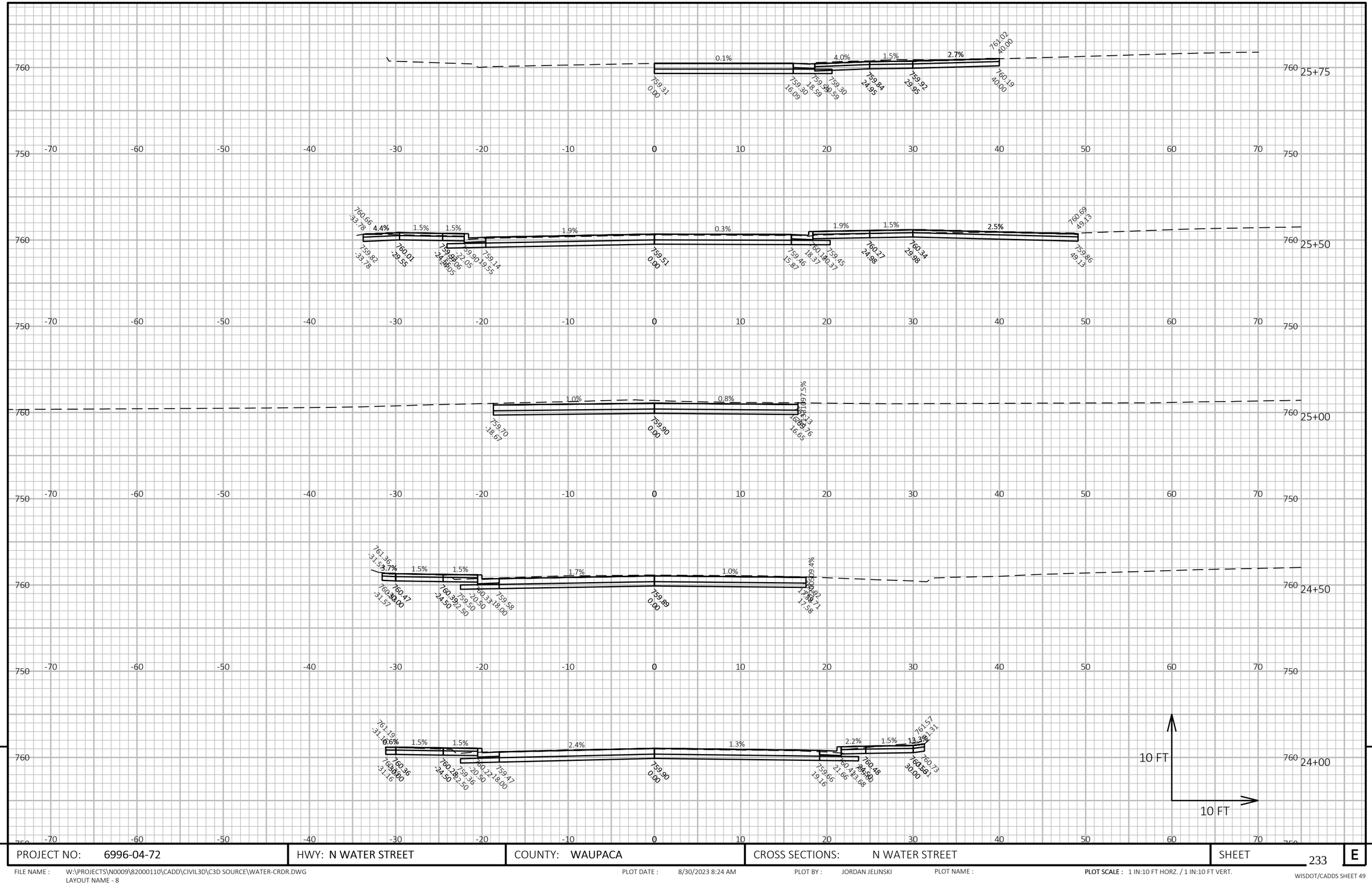
PLOT DATE : 8/30/2023 8:24 AM

PLOT BY : JORDAN JELINSKI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	CROSS SECTIONS: N WATER STREET	SHEET 233 E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\C3D SOURCE\WATER-CRDR.DWG
LAYOUT NAME - 8

PLOT DATE : 8/30/2023 8:24 AM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

770

760

750

-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

26+00

10 FT

10 FT

9

9

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	CROSS SECTIONS: N WATER STREET	SHEET 234	E

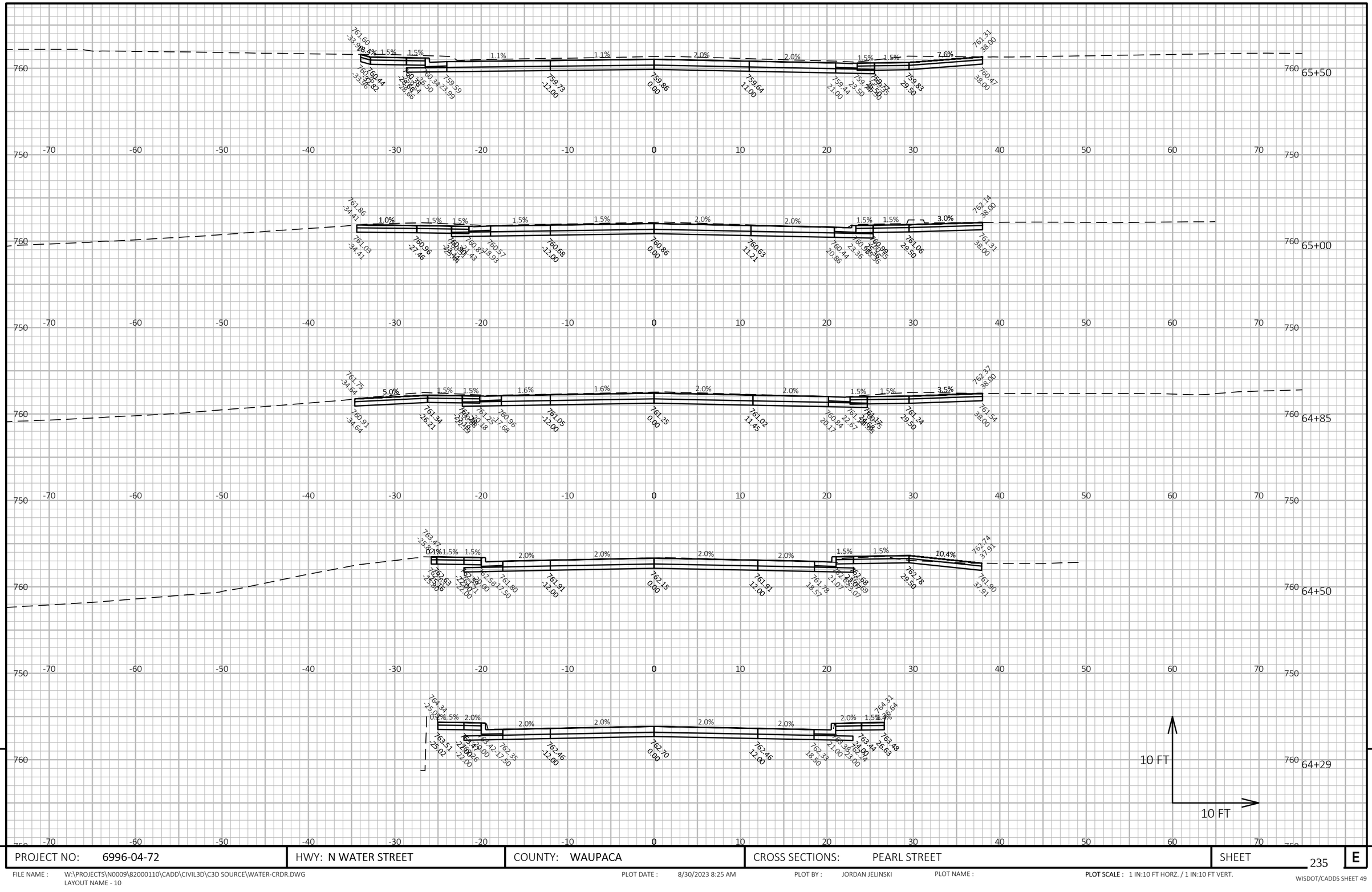
FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\C3D SOURCE\WATER-CRDR.DWG
LAYOUT NAME - 9

PLOT DATE : 8/30/2023 8:24 AM

PLOT BY : JORDAN JELINSKI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

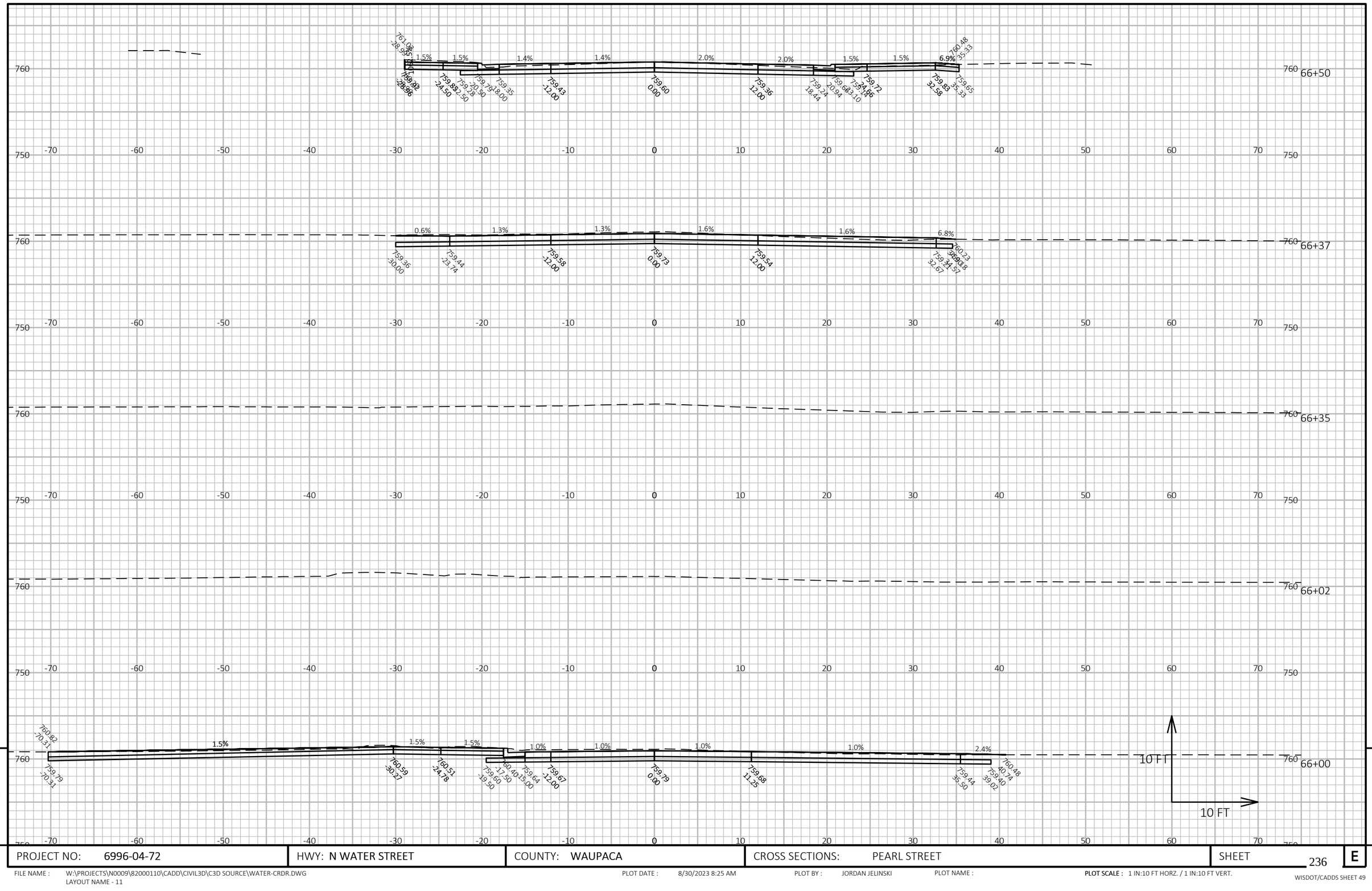
9

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	CROSS SECTIONS: PEARL STREET	SHEET 235	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\C3D SOURCE\WATER-CRDR.DWG
LAYOUT NAME - 10

PLOT DATE : 8/30/2023 8:25 AM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

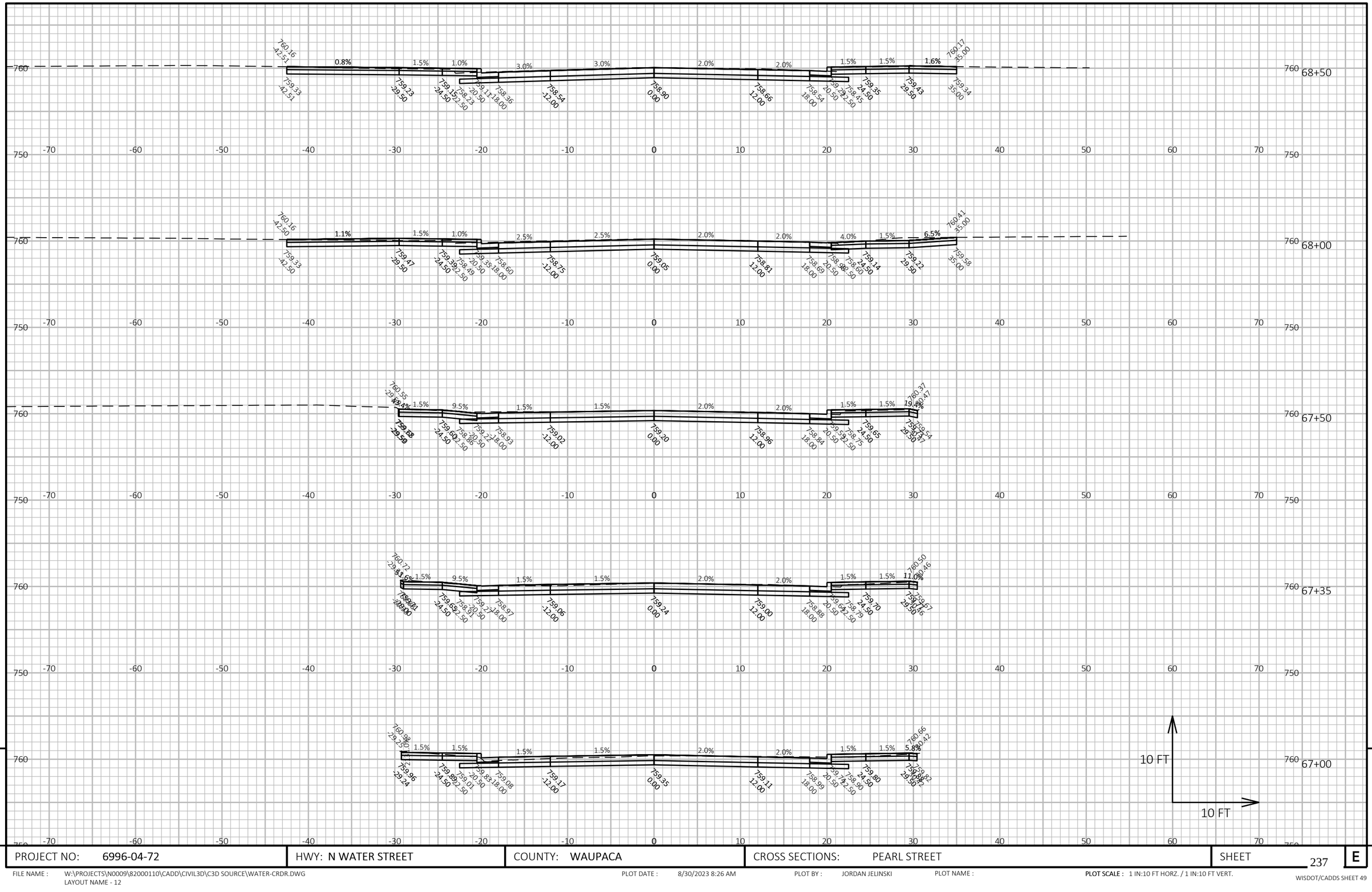


PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	CROSS SECTIONS: PEARL STREET	SHEET 236 E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\C3D SOURCE\WATER-CRDR.DWG
LAYOUT NAME - 11

PLOT DATE : 8/30/2023 8:25 AM PLOT BY : JORDAN JELINSKI PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	CROSS SECTIONS: PEARL STREET	SHEET 237	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\C3D SOURCE\WATER-CRDR.DWG
LAYOUT NAME - 12

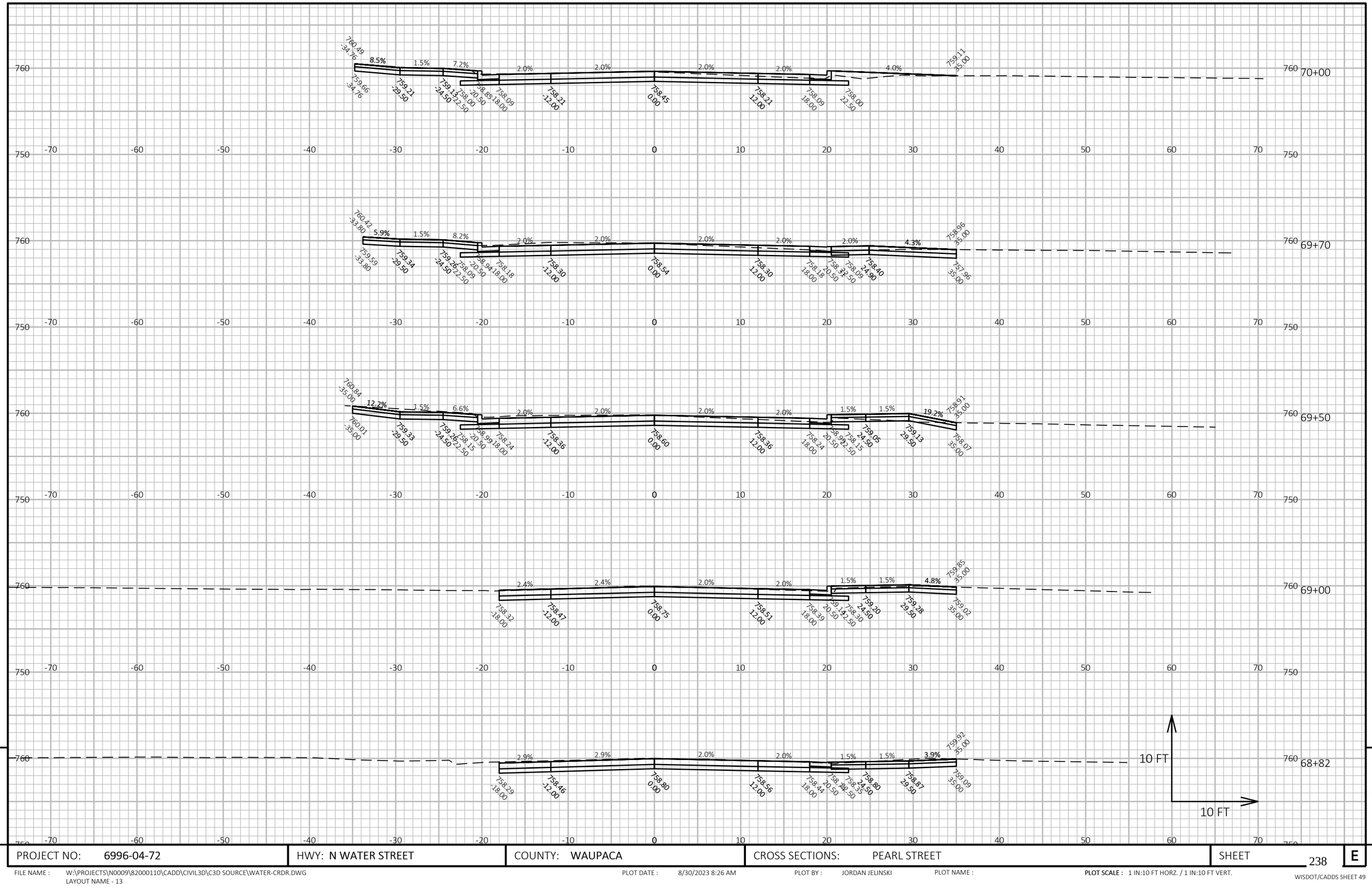
PLOT DATE : 8/30/2023 8:26 AM

PLOT BY : JORDAN JELINSKI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	CROSS SECTIONS: PEARL STREET	SHEET 238	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\C3D SOURCE\WATER-CRDR.DWG
LAYOUT NAME - 13

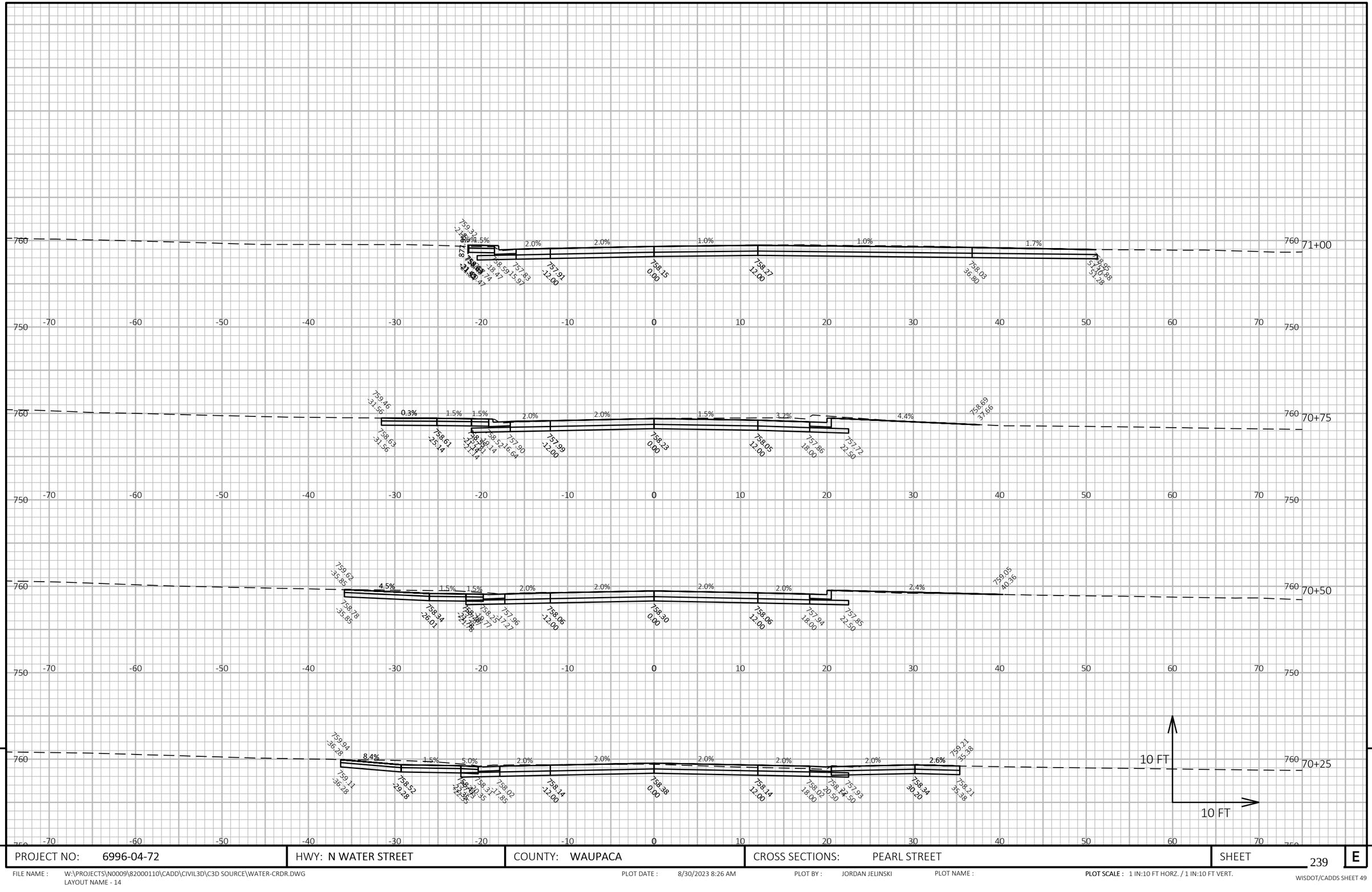
PLOT DATE : 8/30/2023 8:26 AM

PLOT BY : JORDAN JELINSKI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

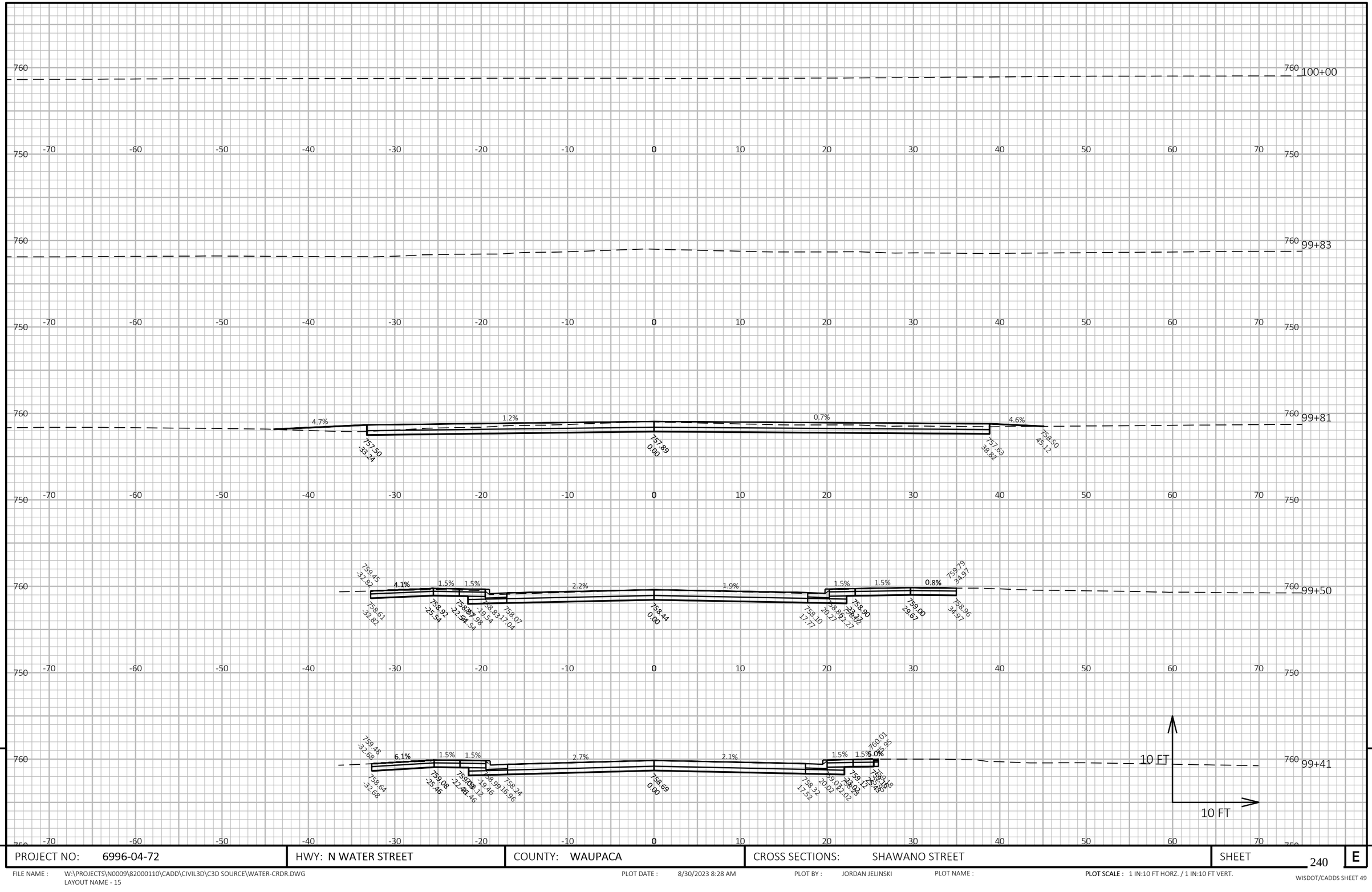


PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	CROSS SECTIONS: PEARL STREET	SHEET 239	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\C3D SOURCE\WATER-CRDR.DWG
LAYOUT NAME - 14

PLOT DATE : 8/30/2023 8:26 AM PLOT BY : JORDAN JELINSKI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



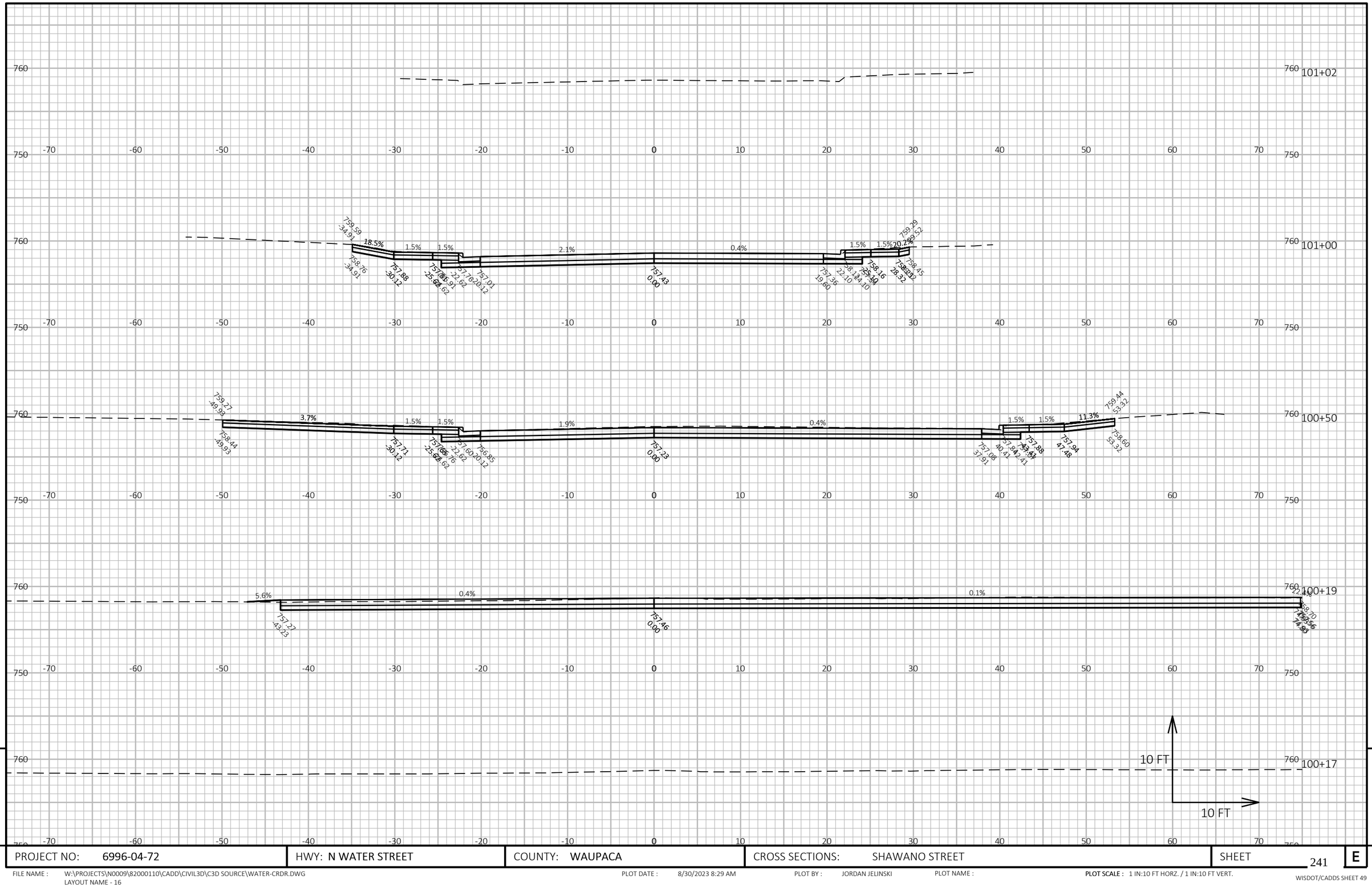
9

9

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	CROSS SECTIONS: SHAWANO STREET	SHEET 240	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\C3D SOURCE\WATER-CRDR.DWG
LAYOUT NAME - 15

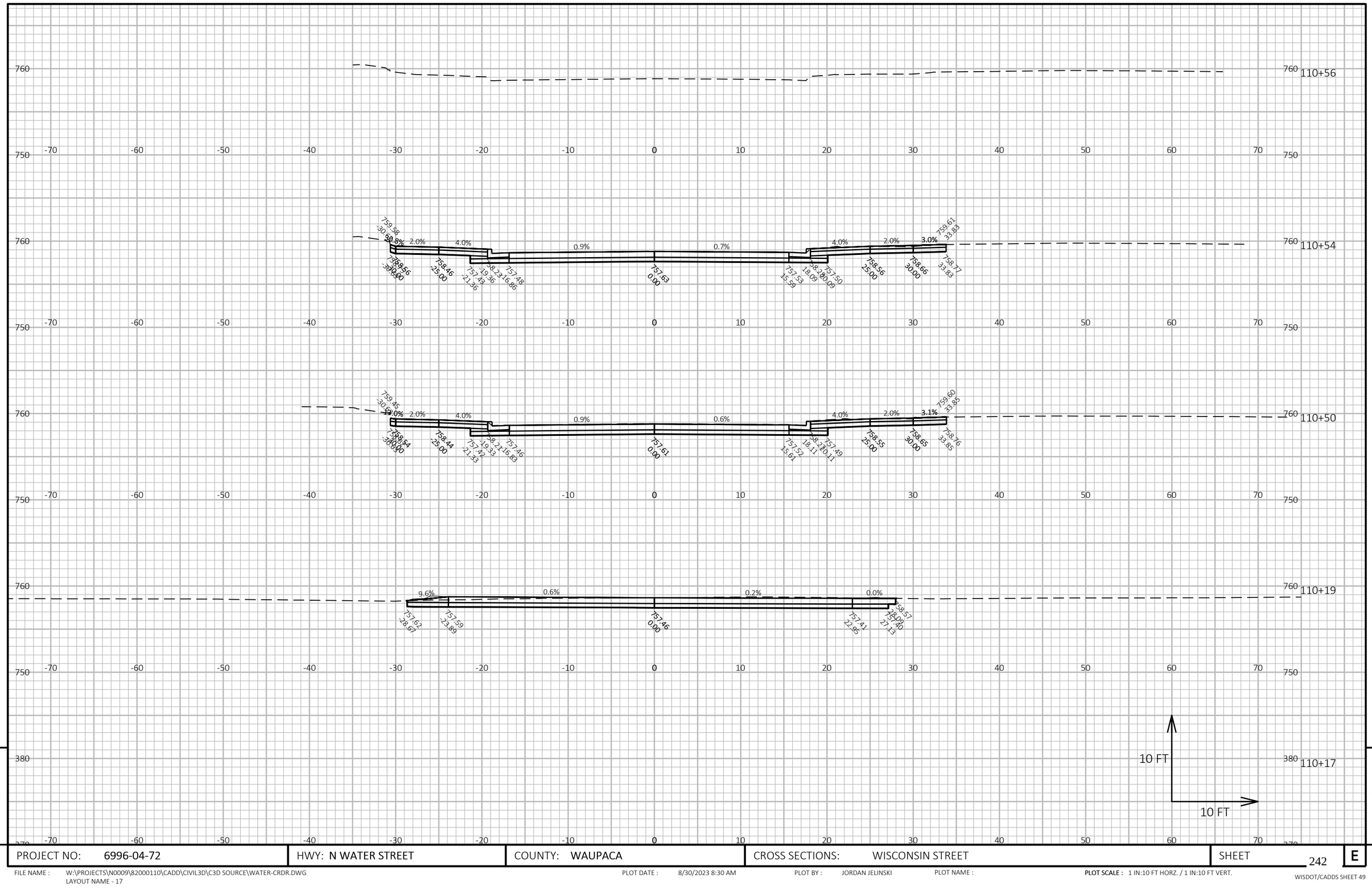
PLOT DATE : 8/30/2023 8:28 AM PLOT BY : JORDAN JELINSKI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	CROSS SECTIONS: SHAWANO STREET	SHEET 241 E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\C3D SOURCE\WATER-CRDR.DWG
LAYOUT NAME - 16

PLOT DATE : 8/30/2023 8:29 AM PLOT BY : JORDAN JELINSKI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



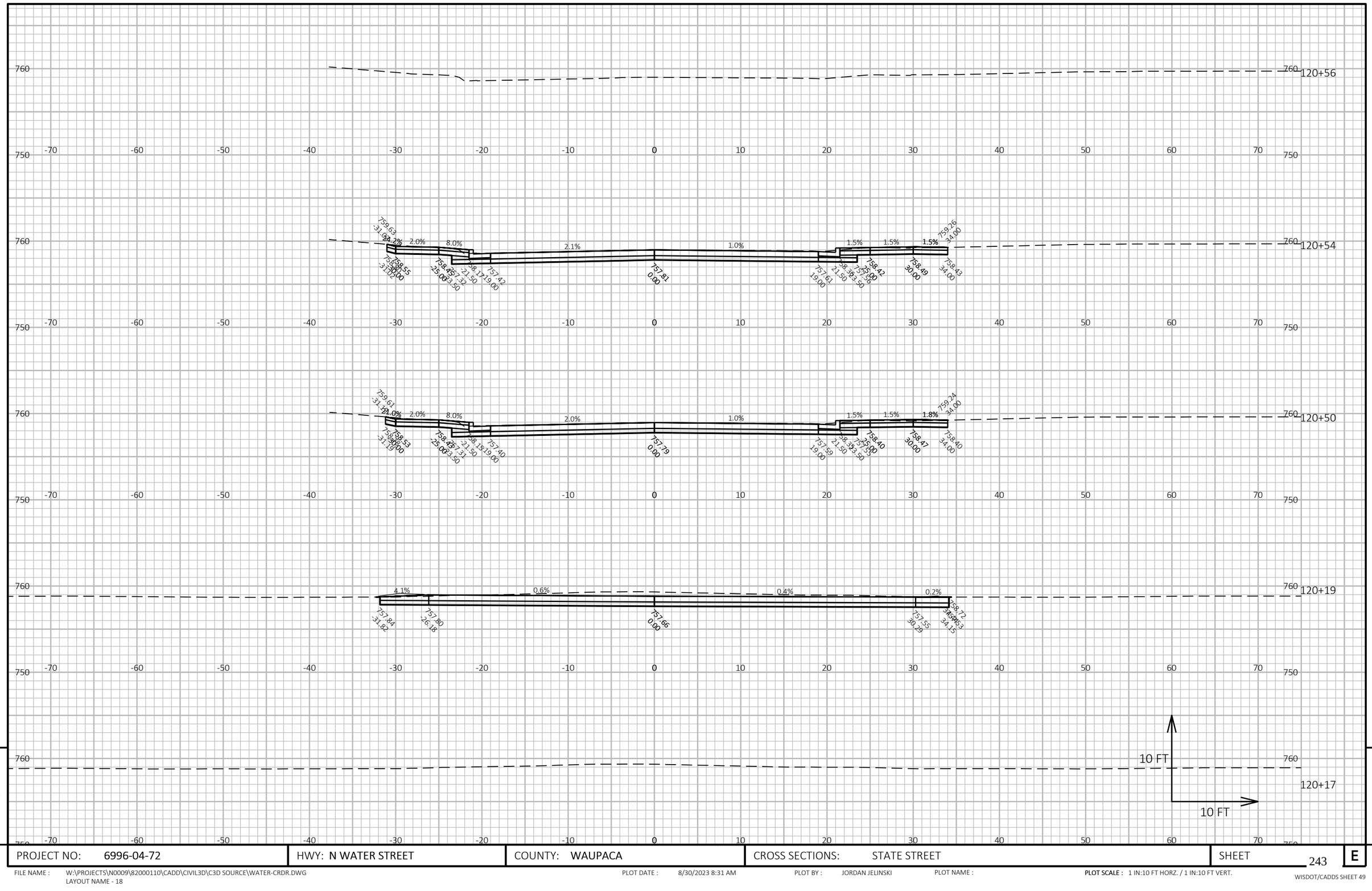
9

9

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	CROSS SECTIONS: WISCONSIN STREET	SHEET 242	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\C3D SOURCE\WATER-CRDR.DWG
LAYOUT NAME - 17

PLOT DATE : 8/30/2023 8:30 AM PLOT BY : JORDAN JELINSKI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



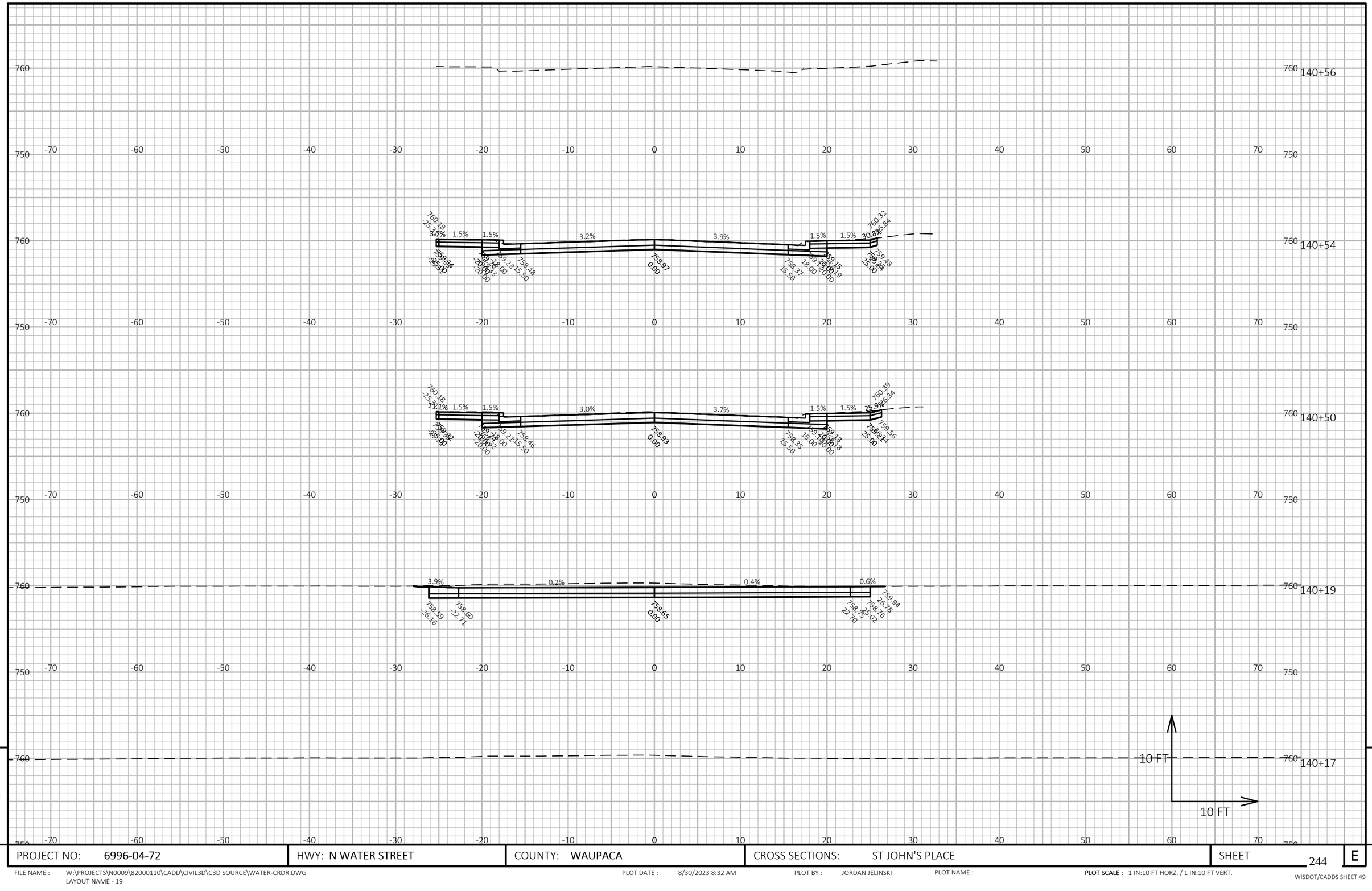
9

9

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	CROSS SECTIONS: STATE STREET	SHEET 243	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\C3D SOURCE\WATER-CRDR.DWG
LAYOUT NAME - 18

PLOT DATE : 8/30/2023 8:31 AM PLOT BY : JORDAN JELINSKI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



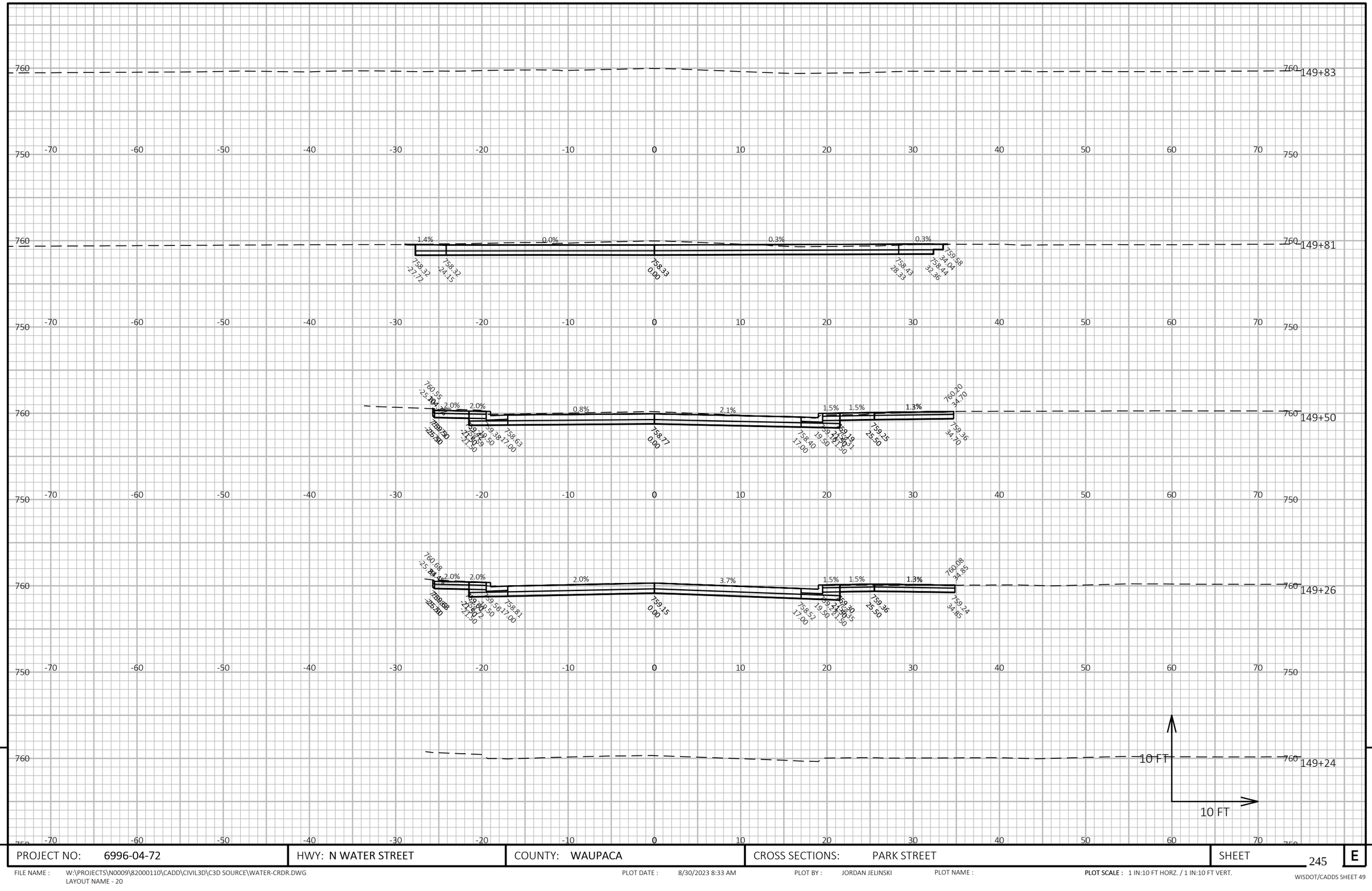
9

9

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	CROSS SECTIONS: ST JOHN'S PLACE	SHEET 244	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\C3D SOURCE\WATER-CRDR.DWG
LAYOUT NAME - 19

PLOT DATE : 8/30/2023 8:32 AM PLOT BY : JORDAN JELINSKI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 6996-04-72	HWY: N WATER STREET	COUNTY: WAUPACA	CROSS SECTIONS: PARK STREET	SHEET 245	E

FILE NAME : W:\PROJECTS\N0009\82000110\CADD\CIVIL3D\C3D SOURCE\WATER-CRDR.DWG
LAYOUT NAME - 20

PLOT DATE : 8/30/2023 8:33 AM

PLOT BY : JORDAN JELINSKI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov