WKE

PROJECT ID: 1380-02-70

WITH: N/A

COUNTY: OZAUKEE

APRIL 2025

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 = 420

N

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

MEQUON ROAD, CITY OF MEQUON

WASHINGTON CO LINE TO BUNTROCK AVE

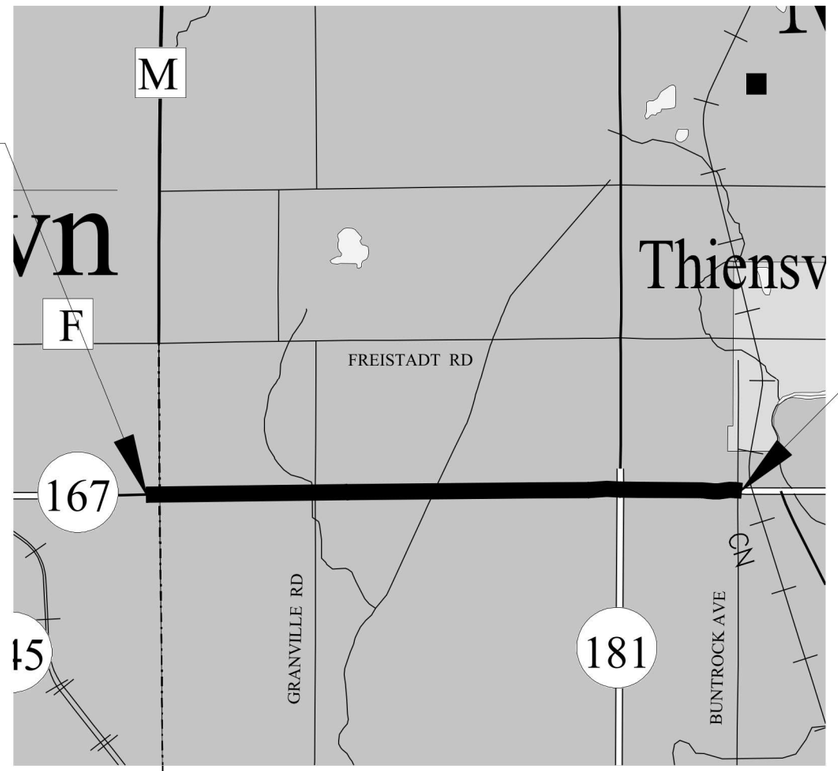
STH 167

OZAUKEE

STATE PROJECT NUMBER
1380-02-70

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1380-02-70	WISC 2025416	1

R-21-E



BEGIN PROJECT
STA 199+89.00
X=564,354.432
Y=366,139.339

END PROJECT
STA 401+75.00

T-9-N

DESIGN DESIGNATION

A.A.D.T.	2023	=	12,900
A.A.D.T.	2043	=	14,100
D.H.V.		=	
D.D.		=	
T.		=	16.3%
DESIGN SPEED		=	45-50 MPH
ESALS		=	4,100,000

CONVENTIONAL SYMBOLS

PLAN

- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE (300'EB')
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE

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

UTILITIES

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

LAYOUT

SCALE 0 1 MI

TOTAL NET LENGTH OF CENTERLINE = 3.824 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), OZAUKEE COUNTY, NAD83 (2011.), 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 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

ORIGINAL PLANS PREPARED BY

KAPUR & ASSOCIATES

kapur

WISCONSIN
NICHOLAS A. BOBINSKI
E-42700-6
BROOKFIELD, WI
PROFESSIONAL ENGINEER

DATE: 10/25/2024 (Professional Engineer Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	KAPUR & ASSOCIATES
Designer	KAPUR & ASSOCIATES
Project Manager	GARY METZER
Regional Examiner	STEVE CHOJNACKI
Regional Supervisor	JANET CANNON

APPROVED FOR THE DEPARTMENT

DATE: 10/25/2024 Gary Metzer (Signature)

E

GENERAL NOTES

PROTECT ALL EXISTING SECTION CORNER MONUMENTS WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE PROJECT.

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

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. EXISTING UTILITIES ARE SHOWN FROM FIELD LOCATES. AND AS-BUILT PLANS PROVIDED BY THE UTILITY. THE "P" LINETYPE INDICATES A UTILITY SHOWN BASED ON FACILITY MAPS. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

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

INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES SHOWN ON THE PLAN MAY BE ADJUSTED BY THE ENGINEER TO FIT FIELD CONDITIONS.

INLET PROTECTION IS REQUIRED AT ALL INLETS AS PER DETAIL OR AS DIRECTED BY THE ENGINEER.

CROSS SECTIONS SHOWN INCLUDE THE THICKNESS OF TOPSOIL WHERE REQUIRED. TOPSOIL SHALL BE REPLACED WITH 6-INCH TYPICAL DEPTH.

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

THE EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR'S ECIP AND ENGINEER IN THE FIELD.

THE EXACT LOCATION OF EXCAVATION BELOW SUBGRADE (EBS) WILL BE DETERMINED BY THE ENGINEER.

CONCRETE CURB AND GUTTER GRADES ARE TO THE FLANGE OF CURB AND GUTTER. CURB AND GUTTER RADII ARE MEASURED TO THE FACE OF CURB.

LOCATIONS OF DRAINAGE STRUCTURES IN CURB AND GUTTER REFER TO FACE OF CURB.

LOCATIONS OF DRAINAGE STRUCTURES NOT IN CURB AND GUTTER REFER TO CENTERLINE OF COVER.

ELEVATIONS ARE GIVEN TO FLOWLINE OF INLETS OR CENTERLINE OF COVER FOR MANHOLES.

THE EXACT LOCATION OF DRIVEWAYS IS TO BE DETERMINED BY THE ENGINEER AND REPLACED IN KIND UNLESS NOTED OTHERWISE.

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

CONTRACTOR SHALL CONTACT PROJECT ENGINEER AND SEWRPC AT LEAST TWO WEEKS PRIOR TO CONDUCTING WORK NEAR ANY PUBLIC SURVEY MONUMENT

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

SHOULDERS TO BE PAVED WITH MAINLINE SURFACE.

LOCATIONS OF SIGNS SHOWN IN THE PLANS ARE APPROXIMATE AND THE FINAL LOCATION OF SIGNS ARE TO BE DETERMINED BY THE ENGINEER.

HMA PAVEMENT SHALL BE CONSTRUCTED WITH THE FOLLOWING LAYERS :

2-INCH HMA PAVEMENT (MILL & OVERLAY)
2" UPPER LAYER 4 MT 58-28 S

4.25-INCH HMA PAVEMENT (SHOULDER PAVING - SEE CONSTRUCTION DETAIL)
2" UPPER LAYER 4 MT 58-28 S
2.25" LOWER LAYER 3 MT 58-28 S

STANDARD ABBREVIATIONS

AEW	APRON ENDWALL
AGG	AGGREGATE
BAD	BASE AGGREGATE DENSE
BM	BENCHMARK
BTWN	BETWEEN
C&G	CURB AND GUTTER
C/L	CENTER OR CONSTRUCTION LINE
CMCP	CULVERT PIPE CORRUGATED METAL
CONC	CONCRETE
CP	CULVERT PIPE
CPRC	CULVERT PIPE REINFORCED CONCRETE
CSD	CONCRETE SURFACE DRAIN
CY	CUBIC-YARD
D	DEGREE OF CURVE
Δ	DELTA
DISCH	DISCHARGE
FE	FIELD ENTRANCE
HMA	HOT MIX ASPHALT
INV	INVERT
L	LENGTH OF CURVE
LHF	LEFT HAND FORWARD
LT	LEFT
MEF	MAX EXTENT FEASIBLE
MIN	MINIMUM
M/L	MATCHLINE
NB	NORTHBOUND
NC	NORMAL CROWN
PAVT	PAVEMENT
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CURVE
PE	PRIVATE ENTRANCE
PI	POINT OF INTERSECTION
PLE	PERMANENT LIMITED EASEMENT
PT	POINT OF TANGENT
R	RADIUS OF CURVE
R/L	REFERENCE LINE
R/W	RIGHT OF WAY
RC	REVERSE CROWN
RCAEW	APRON ENDWALL FOR CULVERT PIPE REINFORCED CONCRETE
REQD	REQUIRED
RHF	RIGHT HAND FORWARD
RO	RUN OFF LENGTH
RRSP	RAILROAD SPIKE
RT	RIGHT
SALV	SALVAGED
SAPBC	SALVAGED ASPHALTIC PAVEMENT BASE COURSE
SB	SOUTHBOUND
SDD	STANDARD DETAIL DRAWING
SE	SUPERELEVATION
SF	SQUARE FOOT
STA	STATION
SY	SQUARE YARD
T	TANGENT LENGTH
TLE	TEMPORARY LIMITED EASEMENT
VCL	VERTICAL CURVE LENGTH
VPC	POINT OF VERTICAL CURVE
VPI	POINT OF VERTICAL INTERSECTION
VPT	POINT OF VERTICAL TANGENT

2

2

UTILITIES CONTACTS

ATC MANAGEMENT, INC. - ELECTRICITY-TRANSMISSION
CHRIS DAILEY
PO BOX 47
WAUKESHA, WI 53187
PHONE: (262) 506-6884
EMAIL: CDAILEY@ATCLLC.COM

ATC MANAGEMENT, INC. - COMMUNICATION LINE
CHRIS DAILEY
PO BOX 47
WAUKESHA, WI 53187
PHONE (262) 506-6884
EMAIL: CDAILEY@ATCLLC.COM

AT&T WISCONSIN - COMMUNICATION LINE
STEVE BURTCH
220 WISCONSIN AVE
WAUKESHA, WI 53186
PHONE: (262) 560-2849
MOBILE: (414) 412-3527
EMAIL: SB7561@ATT.COM

CITY OF MEQUON DEPARTMENT OF PUBLIC WORKS - SEWER
KRISTEN LUNDEEN, PE
10800 N INDUSTRIAL DRIVE
MEQUON, WI 53092
PHONE: (262) 236-2938
EMAIL: KLUNDEEN@CI.MEQUON.WI.US

CITY OF MEQUON DEPARTMENT OF PUBLIC WORKS - WATER
MIRANDA DURBIN
8950 N ARBON DRIVE
BROWN DEER, WI 53223
PHONE: (262) 374-1903
EMAIL: MIRANDA.DURBIN@CITYWATERUSA.COM

EVERSTREAM - COMMUNICATION LINE
SHAD GARCIA
324 E WISCONSIN AVE, SUITE 730
MILWAUKEE, WI 53202
MOBILE: (414) 522-6685
EMAIL: SGARCIA@EVERSTREAM.NET

LEVEL 3 COMMUNICATIONS, LLC - COMMUNICATION LINE
BRAHIM GADDOUR
3235 INTERTECH DR, SUITE 600
BROOKFIELD, WI 53045
PHONE: (414) 908-1027
MOBILE: (414) 704-1026
EMAIL: BRAHIM.GADDOUR@LUMEN.COM

MIDWEST FIBER NETWORKS LLC - COMMUNICATION LINE
CORY SCHMUKI
6070 N FLINT RD
GLENDALE, WI 53209
PHONE: (414) 459-3561
MOBILE: (414) 349-2764
EMAIL: CSCHMUKI@MIDWESTFIBERNETWORKS.COM

SPECTRUM - COMMUNICATION LINE
BEAU ABUYA
1320 N MARTIN LUTHER KING JR DRIVE
MILWAUKEE, WI 53212
PHONE: (414) 758-9241
EMAIL: BEAU.ABUYA@CHARTER.COM

UTILITIES CONTACTS

VERIZON BUSINESS - COMMUNICATION LINE
RJ CICATELLO JR.
15725 WEST RYERSON ROAD
NEW BERLIN, WI 53151
PHONE: (262) 232-1323
EMAIL: RANDY.CICATELLO@VERIZON.COM

WE ENERGIES - ELECTRICITY
JOE FELLENZ
W140 N9100 LILLY ROAD
MENOMONEE FALLS, WI 53051
PHONE:(262) 502-6831
MOBILE: (414) 322-8928
EMAIL: JOSEPH.FELLENZ@WE-ENERGIES.COM

WE ENERGIES - GAS/PETROLEUM
JACOB HULBERT
500 S 116TH STREET
WEST ALLIS, WI 53214
PHONE:(262) 968-5718
MOBILE: (414) 651-1577
EMAIL: JACOB.HULBERT@WE-ENERGIES.COM

OTHER CONTACTS

CITY OF MEQUON DEPARTMENT OF PUBLIC WORKS - TRAFFIC SIGNALS
TIMOTHY WEYKER
11333 N. CEDARBURG ROAD
MEQUON, WI 53092
PHONE: (262) 236-8145
EMAIL: TWEYKER@CI.MEQUON.WI.US

CITY OF MEQUON DEPARTMENT OF PUBLIC WORKS - STREET LIGHTING
TIMOTHY WEYKER
11333 N. CEDARBURG ROAD
MEQUON, WI 53092
PHONE: (262) 236-8145
EMAIL: TWEYKER@CI.MEQUON.WI.US

OZAUKEE COUNTY
JON EDGREN
410 SOUTH SPRING ST
PORT WASHINGTON, WI 53074
PHONE: (262) 238-8335
EMAIL: JEDGREN@CO.OZAUKEE.WI.US

SEWRPC
ROB MERRY
W239 N1812 ROCKWOOD DRIVE
PO BOX 1607
WAUKESHA, WI 53187-1607
PHONE (262) 953-4289
E-MAIL: RMERRY@SEWRPC.ORG

SEWRPC
ANDY TRAEGER
W239 N1812 ROCKWOOD DRIVE
PO BOX 1607
WAUKESHA, WI 53187-1607
PHONE (262) 953-4296
E-MAIL: ATRAEGER@SEWRPC.ORG

VILLAGE OF GERMANTOWN
PAUL HAUGEN
N112 W17001 MEQUON RD
P.O. BOX 337
GERMANTON, WI 53022
PHONE: (262) 253-8254
EMAIL: PHAUGEN@VILLAGE.GERMANTOWN.WI.US

WASHINGTON COUNTY
SCOTT SCHMIDT
900 LANG ST
WEST BEND, WI 53090
PHONE: (262) 335-6881
EMAIL: SCOTT.SCHMIDT@CO.WASHINGTON.WI.US

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
RYAN PAPPAS
1027 WEST ST. PAUL AVENUE
MILWAUKEE, WI 53233
PHONE: (414) 750-7495
EMAIL: RYAN.PAPPAS@WISCONSIN.GOV

WISCONSIN DEPARTMENT OF TRANSPORTATION - TRAFFIC SIGNALS
WISDOT ELECTRICAL FIELD UNIT
935 S. 60TH STREET
WEST ALLIS, WI 53214
PHONE: (414) 266-1170
EMAIL: JOHN.BRUGGEMAN@DOT.WI.GOV

KAPUR & ASSOCIATES
NICK BOBINSKI
7711 N. PORT WASHINGTON ROAD MILWAUKEE, WI 53217
PHONE: (414) 751-7234
EMAIL: NBOBINSKI@KAPURINC.COM

ORDER OF SECTION 2 SHEETS

GENERAL NOTES/UTILITY CONTACTS
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
REMOVAL PLAN
PLAN DETAILS
CURB RAMP DETAILS
EROSION CONTROL & STORM SEWER PLAN
CULVERT PIPE PLAN
STORM SEWER DETAIL
PERMANENT SIGNING
TRAFFIC SIGNAL PLAN
PAVEMENT MARKING
TRAFFIC CONTROL
DETOUR PLAN
PEDESTRIAN DETOUR PLAN
ALIGNMENT PLAN

2

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

2

VILLAGE OF GERMANTOWN

CITY OF MEQUON

BEGIN PROJECT
STA 199+89.00

FOREST DRIVE

BEGIN ASPHALT MILL AND OVERLAY STA 219+50.00

REPLACE 48-INCH CULVERT PIPE

N ASHBURY WOODS DR

N

MATCH LINE 252+00

180 185 190 195 200 205 210 215 220 225 230 235 240 245 250

STH 167/MEQUON RD

UNNAMED INTERMITTENT STREAM (WBIC 18450)

EXISTING TRAFFIC SIGNALS TO BE REPLACED

N WASAUKEE RD

WASHINGTON COUNTY

OZAUKEE COUNTY

2

CITY OF MEQUON

GRANVILLE RD

ASPHALT MILL & OVERLAY

N

MATCH LINE 328+00

C-45-0031 TO REMAIN
REPAIR NW WINGWALL

REMOVE RETAINING WALL R-45-42

255 260 265 270 275 280 285 290 295 300 305 310 315 320 325

STH 167/MEQUON RD

EXISTING TRAFFIC SIGNALS TO BE REPLACED

C-45-0032 TO REMAIN

MINOR RETAINING WALL CAP REPLACEMENT

SUTTON RIDGE DR

OZAUKEE COUNTY

N SWAN RD

N BRIGHTON PL

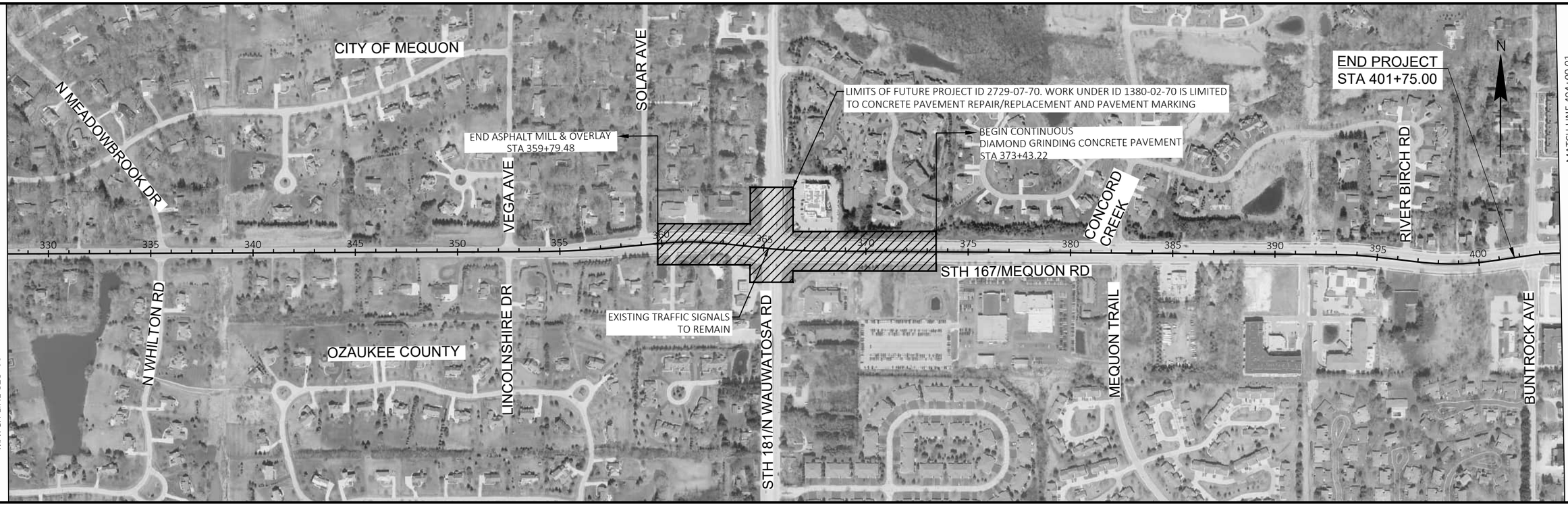
MATCH LINE 252+00

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PROJECT OVERVIEW	SHEET 4	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\020201-PO.DWG
LAYOUT NAME - PO1

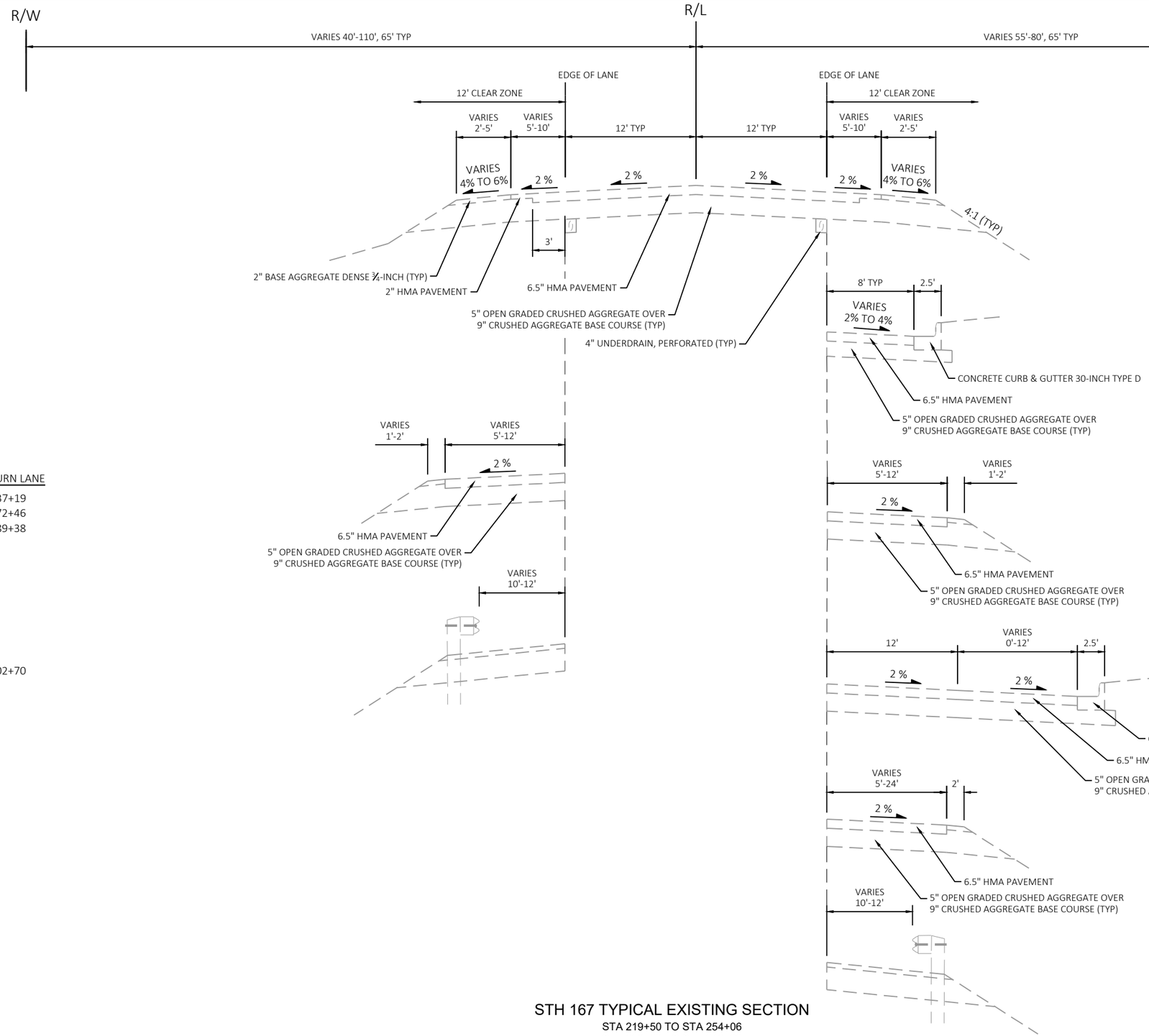
PLOT DATE : 10/31/2024 12:27 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:500 FT

WISDOT/CADDS SHEET 44



PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PROJECT OVERVIEW	SHEET 5	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\020201-PO.DWG
LAYOUT NAME - PO2
PLOT DATE : 10/31/2024 12:27 PM
PLOT BY : KARIMULLAH HABIBUR
PLOT NAME :
PLOT SCALE : 1 IN:500 FT
WISDOT/CADDS SHEET 44



BYPASS LANE OR RIGHT TURN LANE

STA 233+32 TO STA 237+19
STA 266+80 TO STA 272+46
STA 285+02 TO STA 289+38

BEAM GUARD

STA 298+70 TO STA 302+70

SHOULDER WITH CURB & GUTTER

STA 220+00 TO STA 232+69

BYPASS LANE OR RIGHT TURN LANE

STA 232+69 TO STA 237+00
STA 281+57 TO STA 288+64
STA 308+65 TO STA 311+43

SECOND THROUGH LANE AND RIGHT TURN LANE

STA 266+63 TO STA 269+00

TAPER

STA 269+00 TO STA 271+19

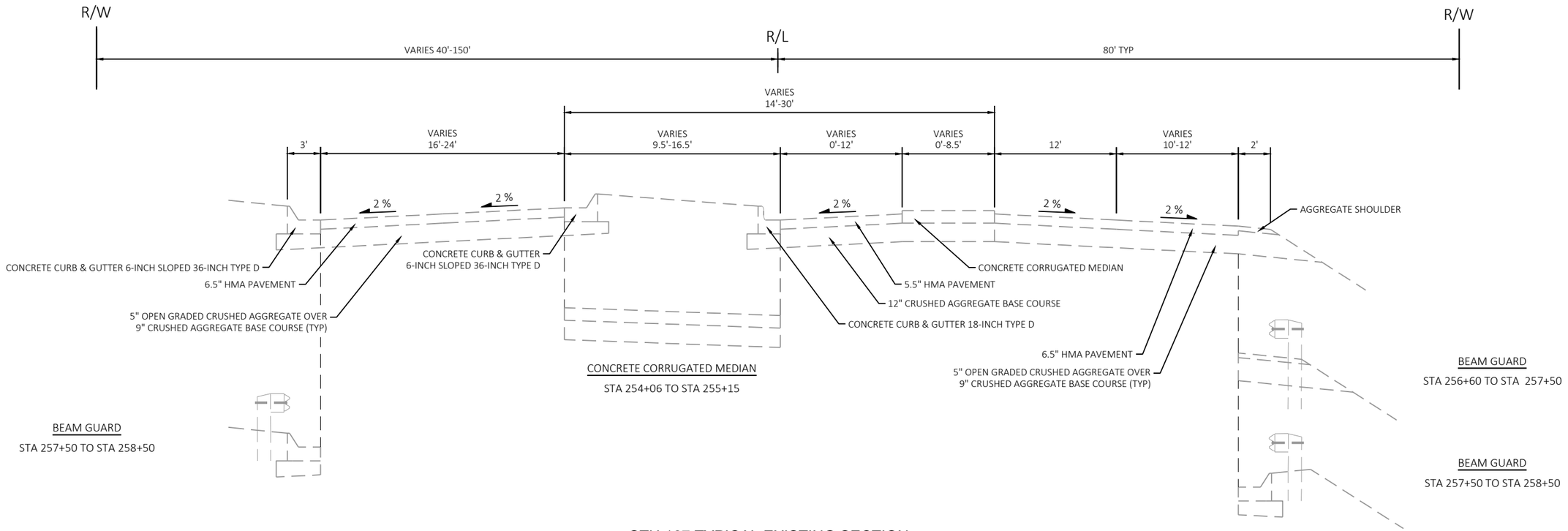
BEAM GUARD

STA 298+40 TO STA 301+25

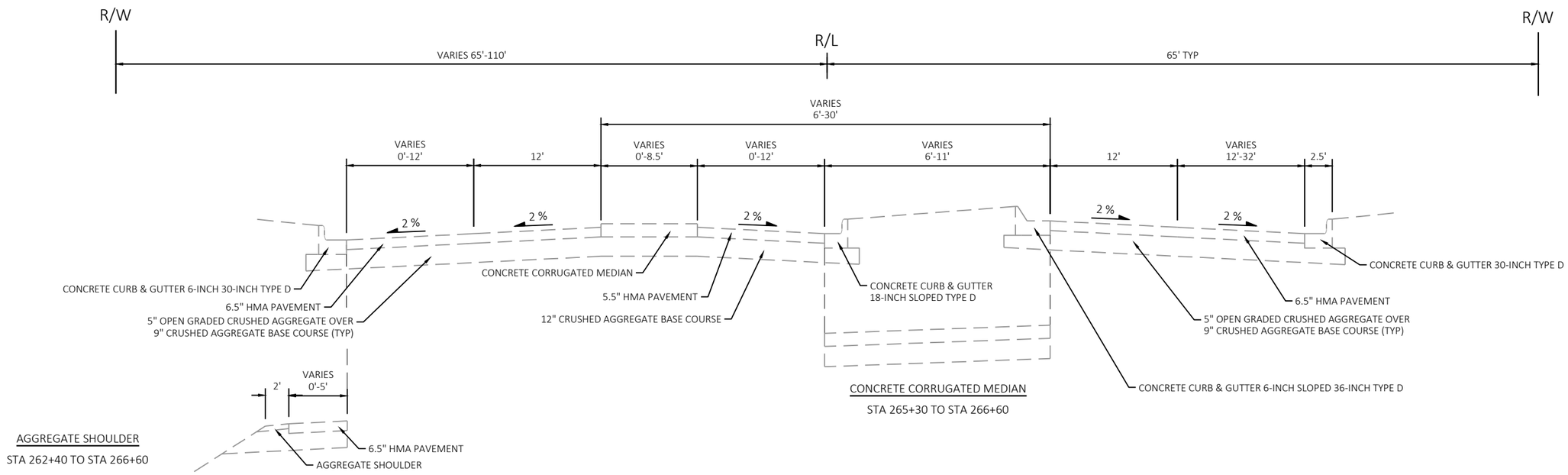
STH 167 TYPICAL EXISTING SECTION

STA 219+50 TO STA 254+06
STA 266+60 TO STA 312+00

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	EXISTING TYPICAL SECTIONS	SHEET 6	E

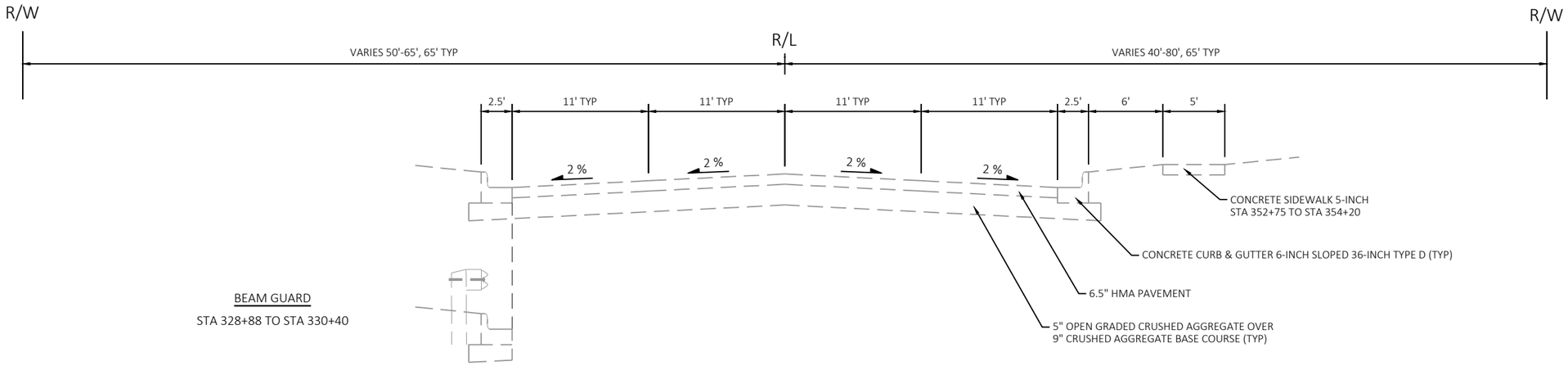


STH 167 TYPICAL EXISTING SECTION
STA 254+06 TO STA 259+00



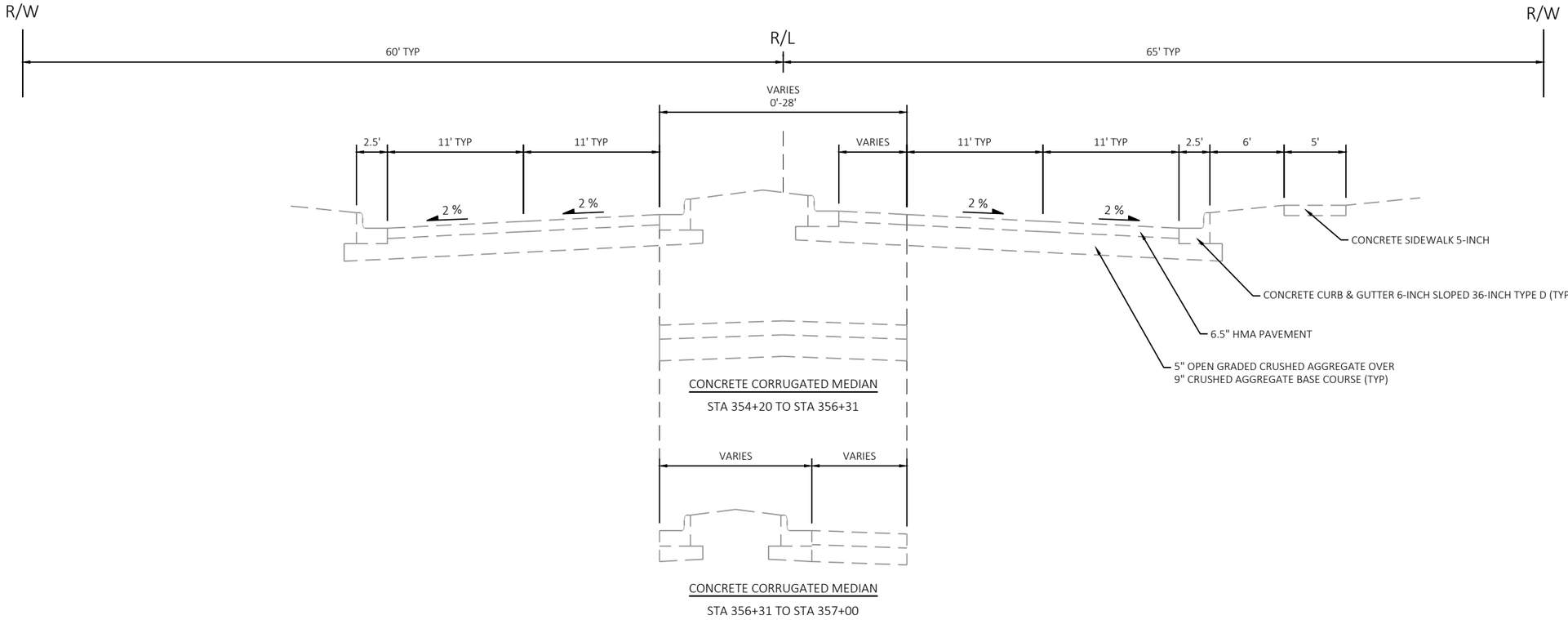
STH 167 TYPICAL EXISTING SECTION
STA 259+00 TO STA 266+60

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	EXISTING TYPICAL SECTIONS	SHEET 7	E



STH 167 TYPICAL EXISTING SECTION

STA 312+00 TO STA 354+20

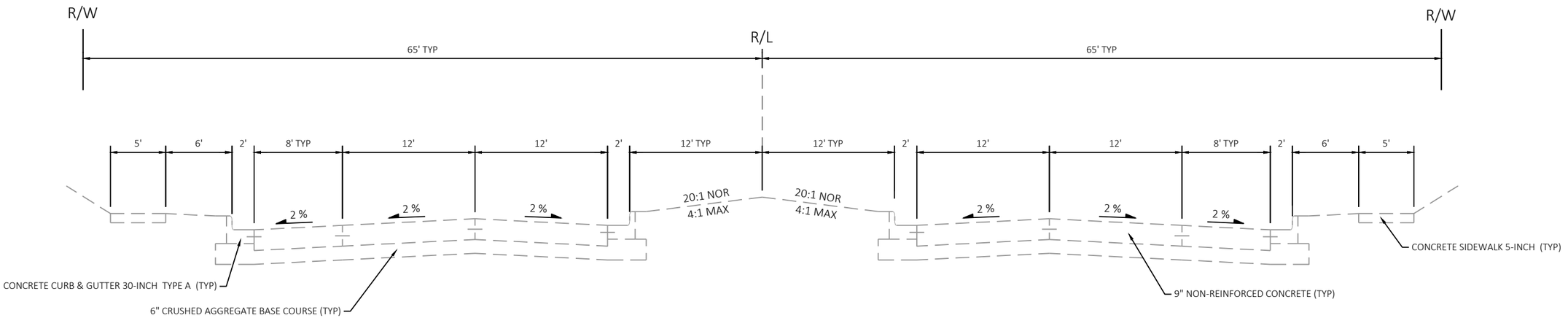


STH 167 TYPICAL EXISTING SECTION

STA 354+20 TO STA 359+84

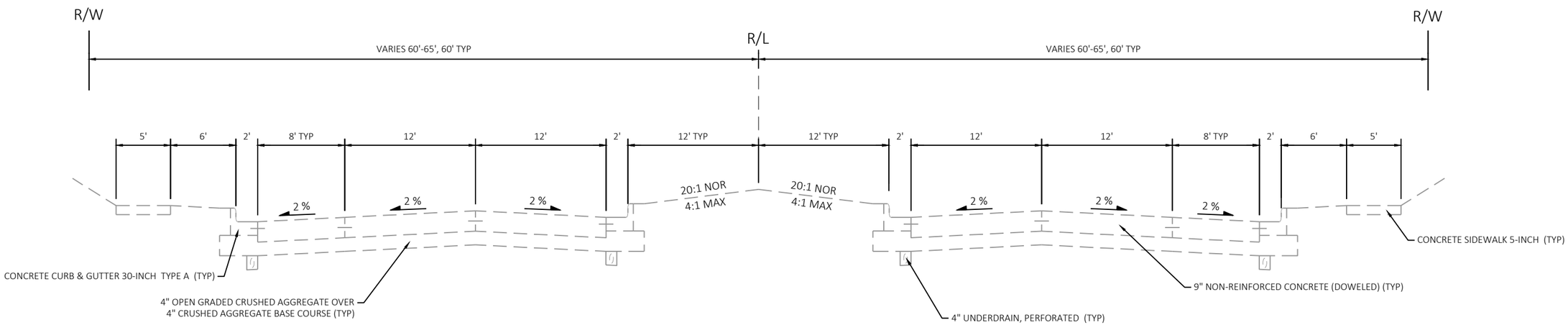
PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	EXISTING TYPICAL SECTIONS	SHEET 8	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\020301-TS.DWG
LAYOUT NAME - 03
PLOT DATE : 10/31/2024 12:27 PM
PLOT BY : KARIMULLAH HABIBUR
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



STH 167 TYPICAL EXISTING SECTION

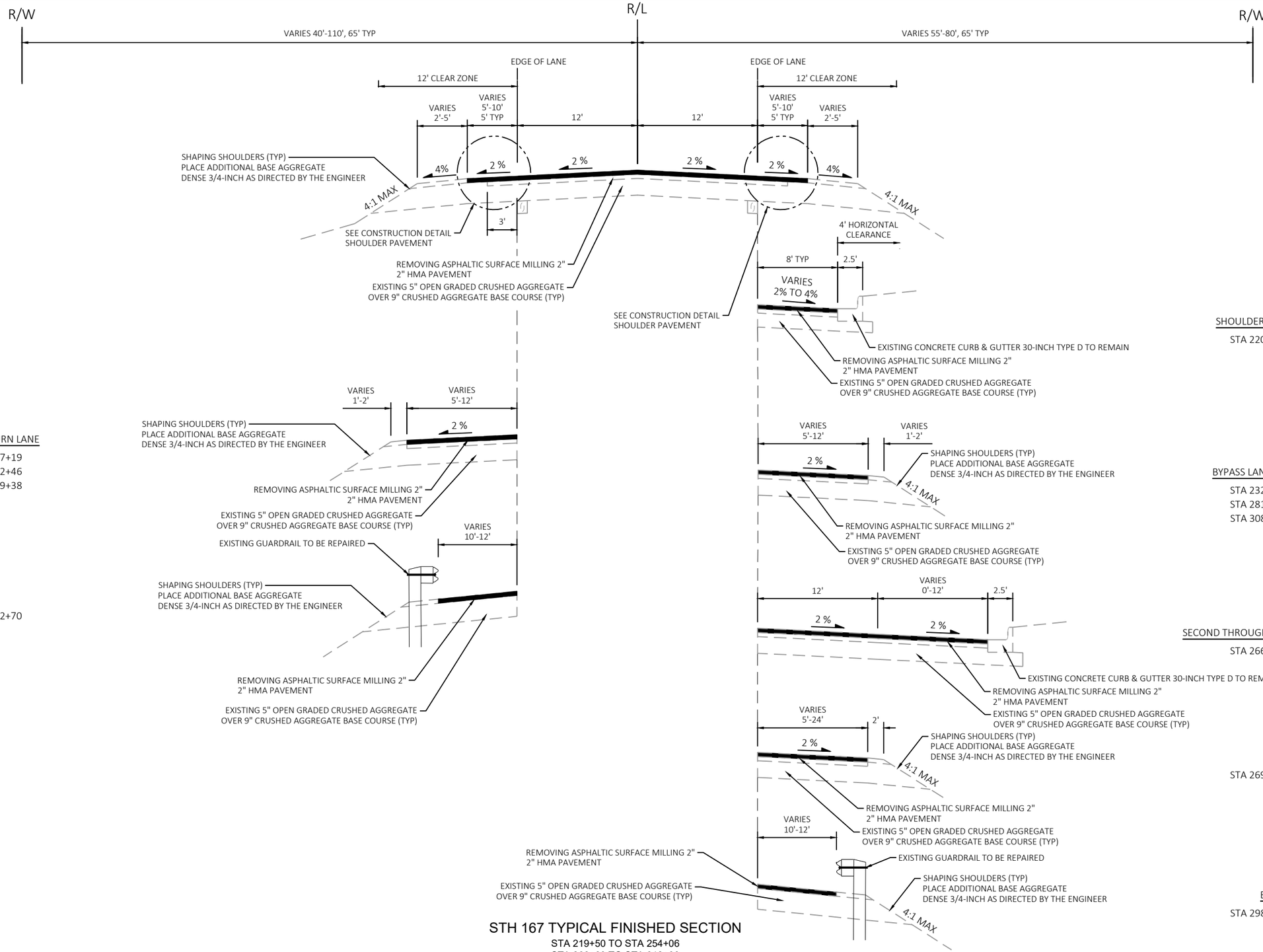
STA 359+84 TO STA 373+34



STH 167 TYPICAL EXISTING SECTION

STA 373+34 TO STA 401+75

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	EXISTING TYPICAL SECTIONS	SHEET 9	E



BYPASS LANE OR RIGHT TURN LANE

STA 233+32 TO STA 237+19
STA 266+80 TO STA 272+46
STA 285+02 TO STA 289+38

BEAM GUARD

STA 298+70 TO STA 302+70

SHOULDER WITH CURB & GUTTER

STA 220+00 TO STA 232+69

BYPASS LANE OR RIGHT TURN LANE

STA 232+69 TO STA 237+00
STA 281+57 TO STA 288+64
STA 308+65 TO STA 311+43

SECOND THROUGH LANE AND RIGHT TURN LANE

STA 266+63 TO STA 269+00

TAPER

STA 269+00 TO STA 271+19

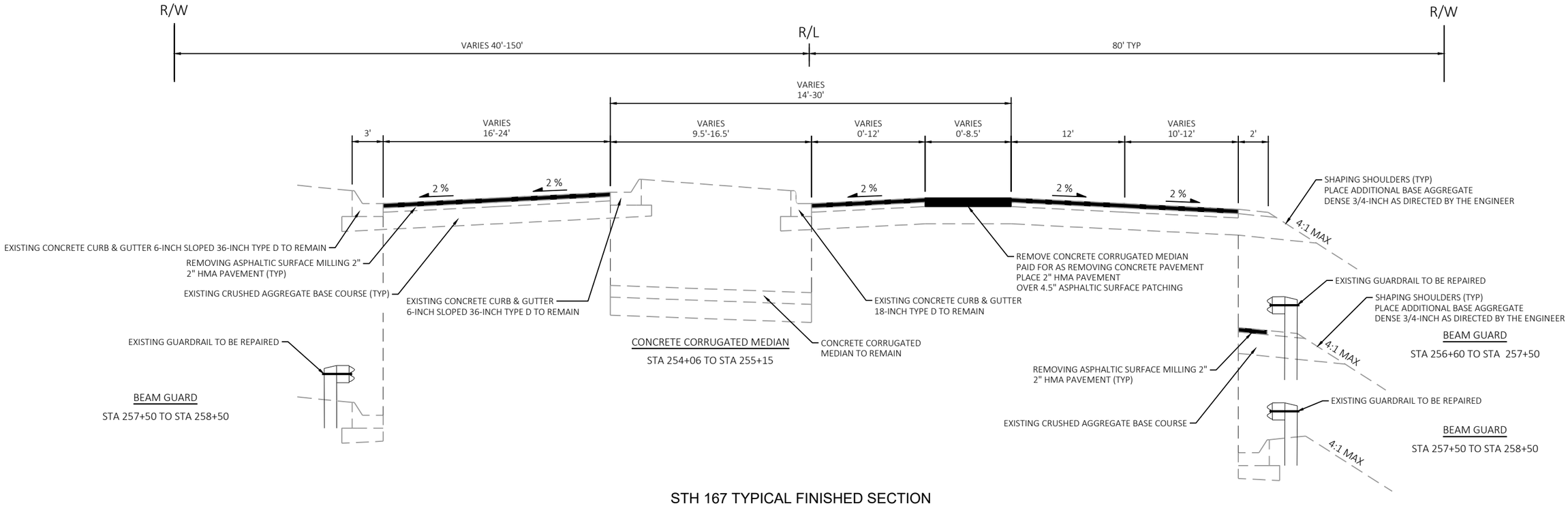
BEAM GUARD

STA 298+40 TO STA 301+25

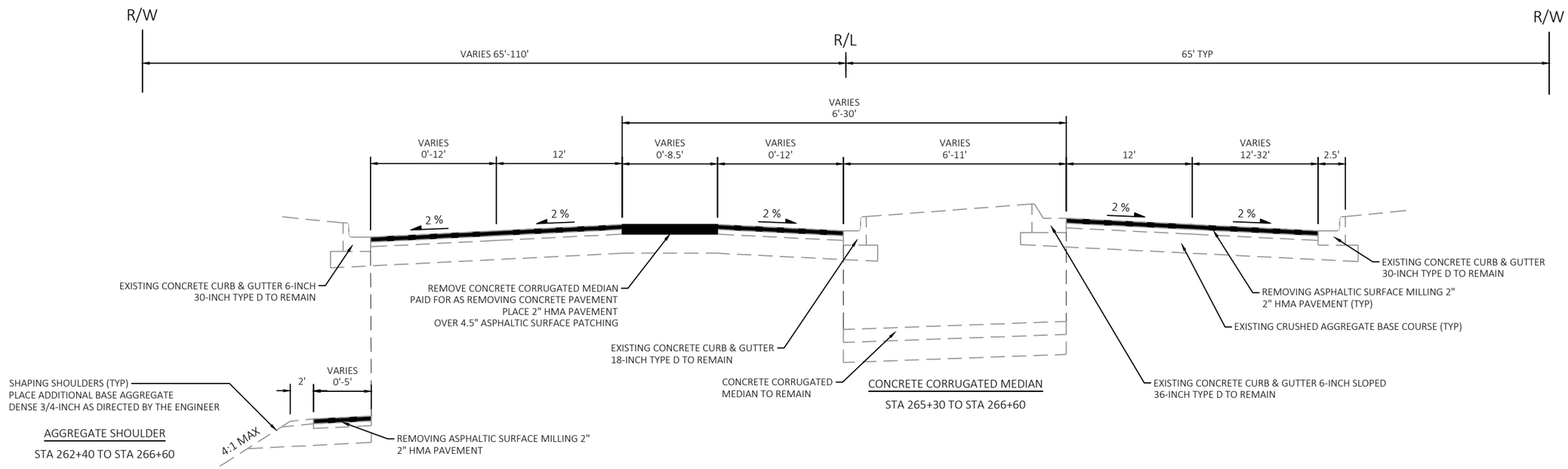
STH 167 TYPICAL FINISHED SECTION

STA 219+50 TO STA 254+06
STA 266+60 TO STA 312+00

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PROPOSED TYPICAL SECTIONS	SHEET 10	E



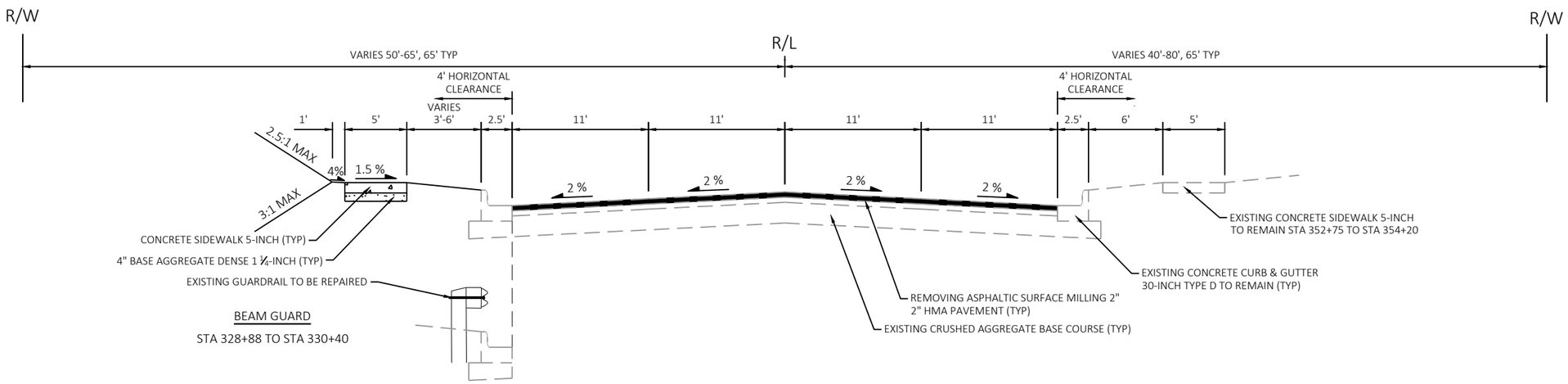
STH 167 TYPICAL FINISHED SECTION
STA 254+06 TO STA 259+00



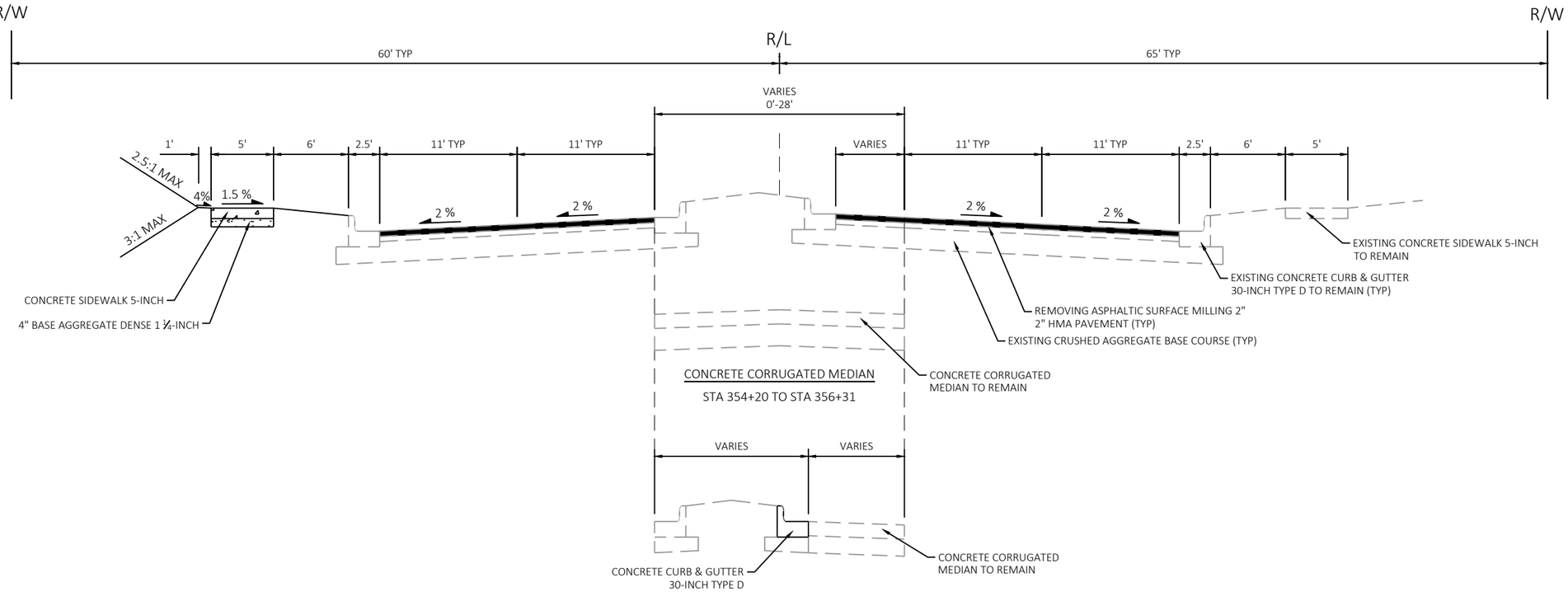
STH 167 TYPICAL FINISHED SECTION
STA 259+00 TO STA 266+60

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PROPOSED TYPICAL SECTIONS	SHEET 11	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\020401-TS.DWG
LAYOUT NAME - 02
PLOT DATE : 2/17/2025 2:41 PM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

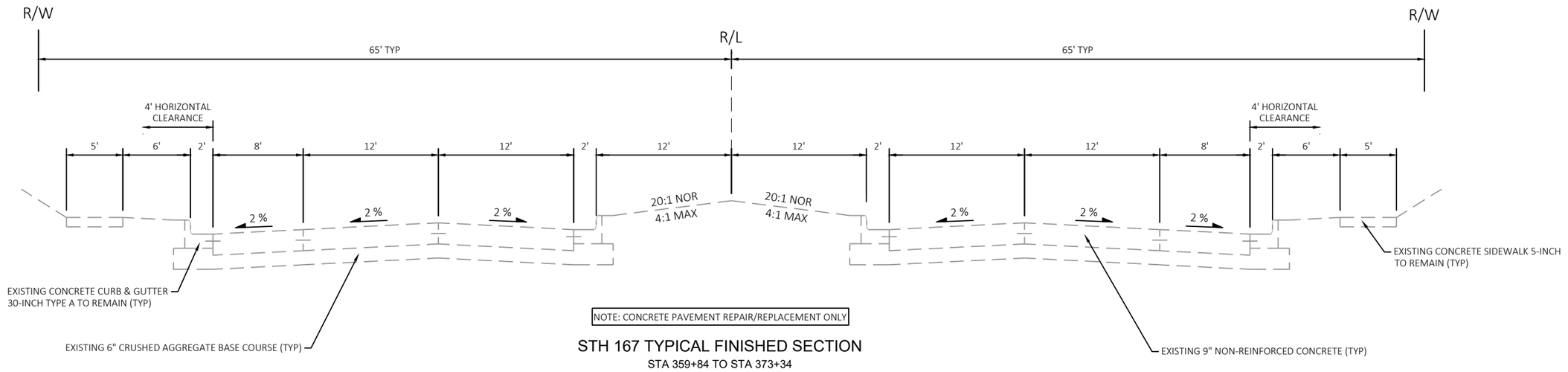


STH 167 TYPICAL FINISHED SECTION
STA 312+00 TO STA 354+20



STH 167 TYPICAL FINISHED SECTION
STA 354+20 TO STA 359+84

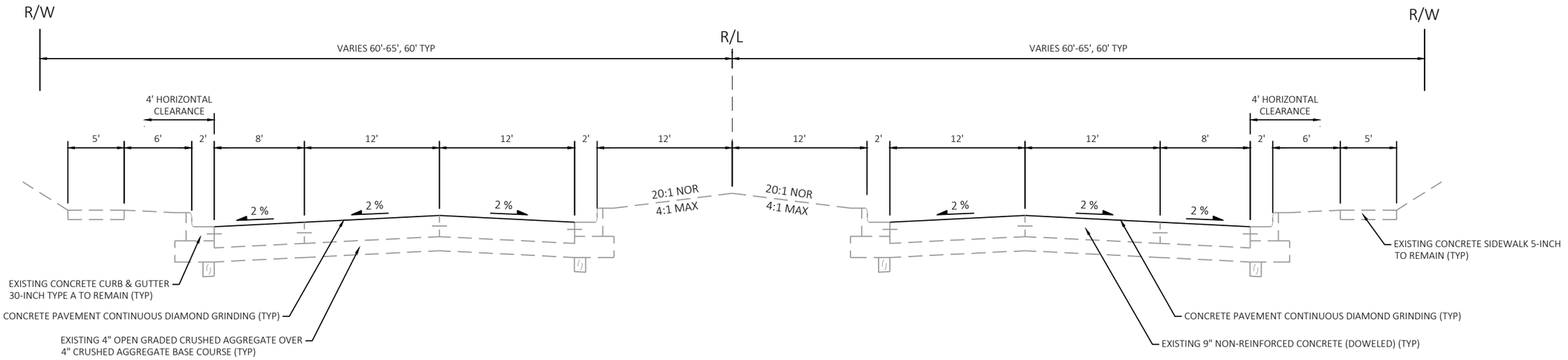
PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PROPOSED TYPICAL SECTIONS	SHEET 12	E



NOTE: CONCRETE PAVEMENT REPAIR/REPLACEMENT ONLY

STH 167 TYPICAL FINISHED SECTION

STA 359+84 TO STA 373+34

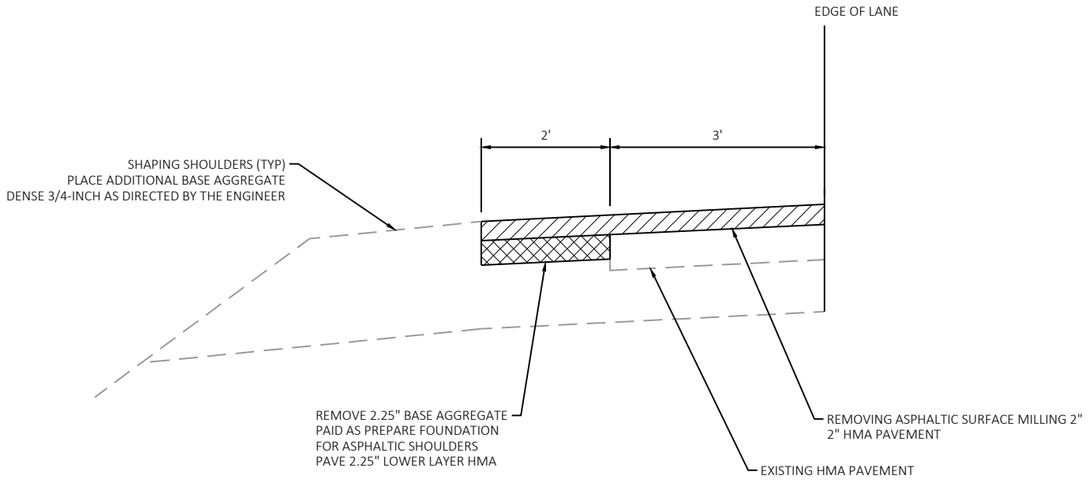


STH 167 TYPICAL FINISHED SECTION

STA 373+34 TO STA 401+75

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PROPOSED TYPICAL SECTIONS	SHEET 13	E

2



SHOULDER PAVEMENT

AT LOCATIONS WITH 5' PAVED SHOULDER

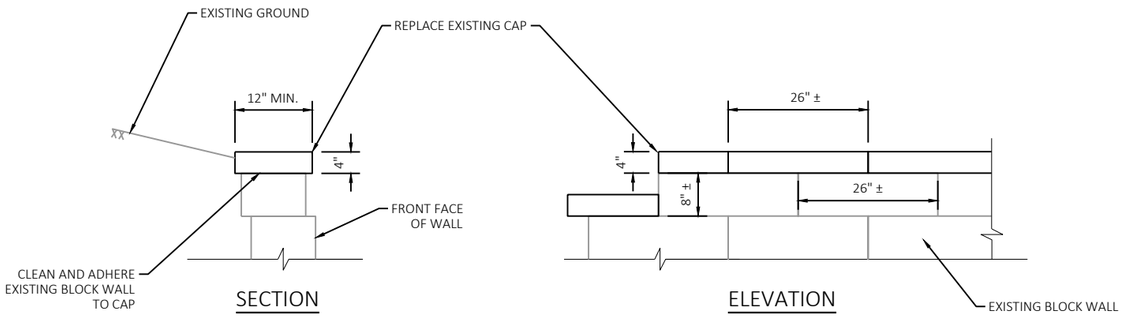
STA 219+50 TO STA 233+32 LT
STA 237+19 TO STA 240+15 LT
STA 272+46 TO STA 281+25 LT
STA 289+38 TO STA 297+96 LT
STA 303+45 TO STA 309+00 LT

STA 237+00 TO STA 249+19 RT
STA 271+19 TO STA 281+57 RT
STA 288+64 TO STA 297+65 RT
STA 302+00 TO STA 308+65 RT

NOTE

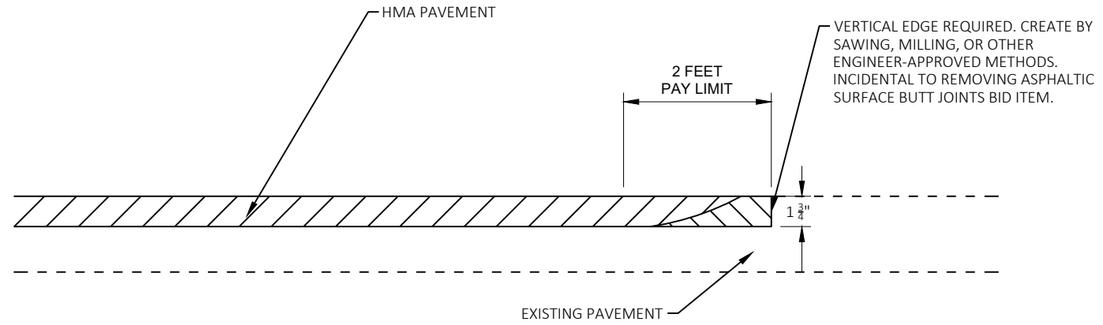
1) DO NOT DISTURB EXISTING GROUND BEHIND RETAINING WALL.

2) A POURED CONCRETE CAP MAY BE UTILIZED IN LIEU OF A MODULAR BLOCK CAP



MINOR RETAINING WALL CAP REPLACEMENT DETAIL

STA 327+44 - STA 328+51 RT



REMOVE MATERIAL UNDER ITEM 'REMOVING ASPHALTIC SURFACE BUTT JOINT'

REMOVING ASPHALTIC SURFACE MILLING

BUTT JOINT - NO CHANGE IN PROFILE

NTS

NOTES

1) CONTRACTOR TO PUMP WATER FROM EXCAVATION TO SEDIMENT BAG INSIDE BASIN PRIOR TO DISCHARGING TO THE WATERWAY. SEDIMENT BAG TO BE PLACED IN AN UPLAND VEGETATED AREA OR EQUIVALENT LOCATION APPROVED BY THE ENGINEER.

2) BASIN TO BE KEPT LESS THAN 10% FULL OF SEDIMENT. GEOTEXTILE FABRIC AND SEDIMENTS TO BE DISPOSED BY THE CONTRACTOR OFF OF THE PROJECT SITE.

3) TEMPORARY SETTLING BASIN AND SEDIMENT BAG TO BE PAID FOR AS EROSION BALES AND GEOTEXTILE TYPE HR.

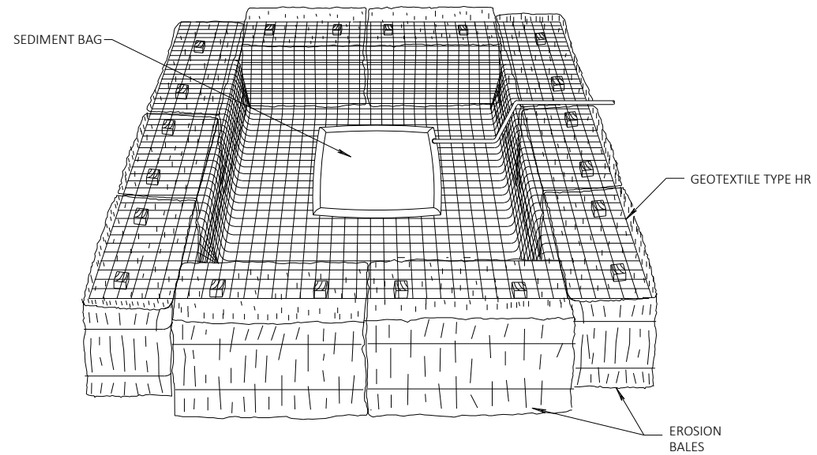
STORAGE VOLUME (C.F.) = 16 X GPM (PUMP RATE)

EXAMPLE:
CONTRACTOR INDICATES PUMP CAPABLE OF 50 GPM
HEIGHT OF BALES = 1.5 FT.

SOLUTION:
SV (C.F.) = 16 X 50
SV = 800 C.F.

$\frac{800 \text{ C.F.}}{1.5 \text{ FT.}}$ = 533 S.F.

USE A 20 FT. X 27 FT. BASIN



TEMPORARY SETTLING BASIN

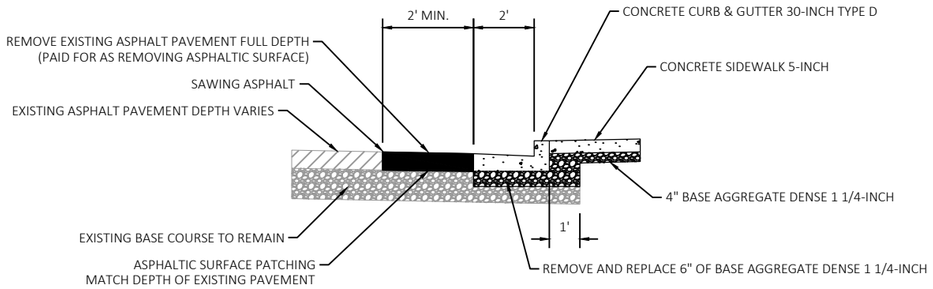
(SIZE TO BE DETERMINED IN FIELD)

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	CONSTRUCTION DETAILS	SHEET 14	E

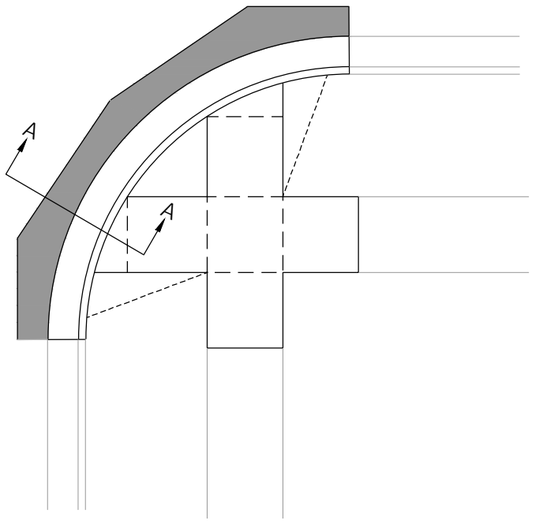
FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\021001-CD.DWG
LAYOUT NAME - 01
PLOT DATE : 10/31/2024 12:28 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

NOTE:

1) REPLACE CURB & GUTTER AND RESTORE ASPHALTIC SURFACE PRIOR TO MILLING.

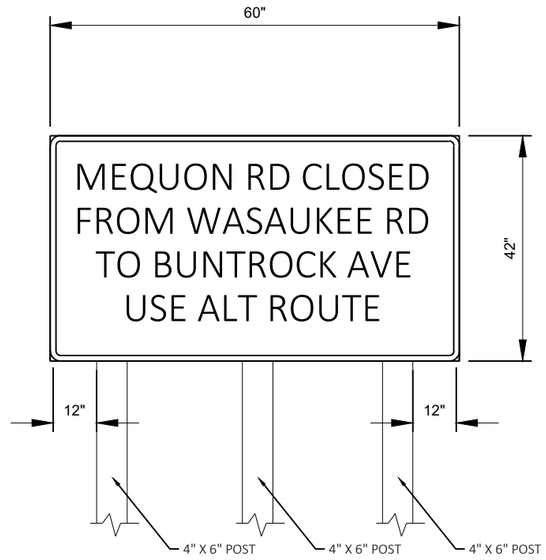


SECTION A-A



CURB & GUTTER REPLACEMENT ADJACENT TO ASPHALT PAVEMENT

NTS



FIXED MESSAGE SIGN DETAIL

NOTES

1) SEE TRAFFIC CONTROL OVERVIEW FOR FIXED MESSAGE SIGN LOCATIONS.
2) SIGNS SHALL HAVE BLACK NON-REFLECTIVE MESSAGE ON ORANGE FLUORESCENT REFLECTIVE BACKGROUND. SHEETING AND BASE MATERIAL PER SPEC 637 & 643. REFERENCE: "WISDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," LATEST EDITION.
3) SIGNS SHALL HAVE 6" CAPITAL LETTERS, SERIES "C".
4) SIGNS SHALL HAVE A 1" BLACK BORDER WITH 3" CORNER RADIUS.
5) CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER FOR REVIEW PRIOR TO MANUFACTURING.
6) AFTER SIGNS HAVE BEEN LOCATED IN THE FIELD BUT PRIOR TO INSTALLATION, THE ENGINEER SHALL VERIFY EACH SIGN LOCATION.
7) SIGNS SHALL BE MOUNTED ON 4"X6" WOODEN POST SUPPORTS, WITH 2 HOLES PER STATE PLATE A4-11. THE NUMBER OF POSTS REQUIRED IS SHOWN.

REMOVING CURB AND GUTTER AND PAVEMENT TO THE LIMITS SHOWN, EXCAVATING, PREPARING THE FOUNDATION AND SHIMMING ARE INCIDENTAL TO THE ADJUSTING OR RECONSTRUCTING BID ITEMS.

THE DEPARTMENT WILL PAY SEPARATELY FOR SAWING ASPHALT, SAWING CONCRETE, CONCRETE CURB & GUTTER AND DRILLED TIE BARS.

MONOLITHIC SHIM CONCRETE, CONCRETE PLACEMENT AND FINISHING IS INCIDENTAL TO THE CONCRETE CURB & GUTTER BID ITEM.

PREVENT CONCRETE AND OTHER DEBRIS FROM FALLING INTO STRUCTURE.

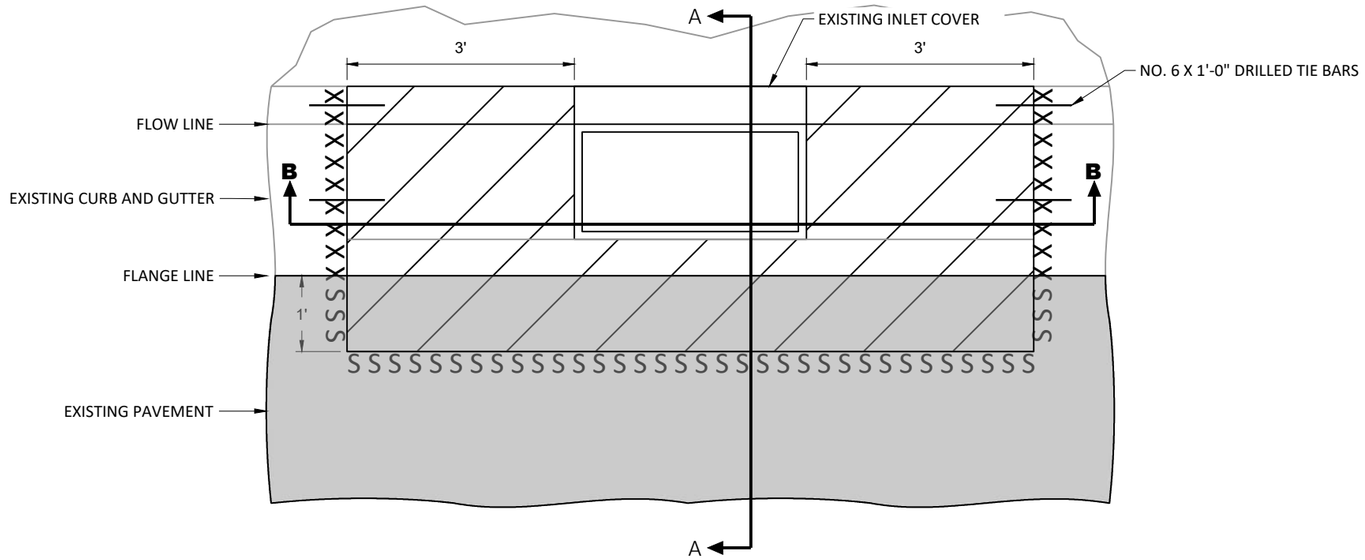
REFER TO PLAN DETAILS AND MISCELLANEOUS QUANTITIES FOR ADDITIONAL INFORMATION.

S S S SAWING ASPHALT

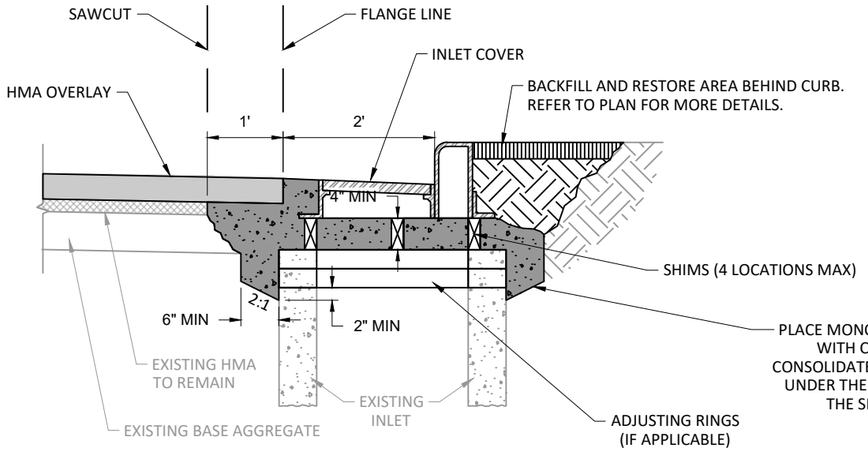
X X X SAWING CONCRETE

REMOVING CURB & GUTTER AND PAVEMENT

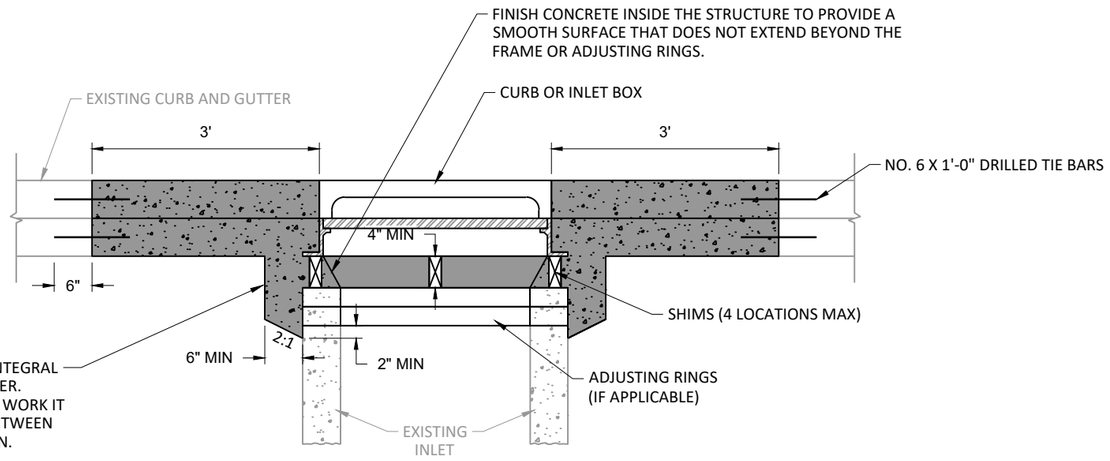
MONOLITHIC CONCRETE



PLAN VIEW



SECTION A-A



SECTION B-B

ADJUSTING / RECONSTRUCTING CATCH BASINS & INLETS - MONOLITHIC SHIM WITH HMA PAVEMENT

NTS

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	CONSTRUCTION DETAILS	SHEET 16	E

2

REMOVING CURB AND GUTTER AND PAVEMENT TO THE LIMITS SHOWN, EXCAVATING, PREPARING THE FOUNDATION AND SHIMMING ARE INCIDENTAL TO THE ADJUSTING OR RECONSTRUCTING BID ITEMS.

THE DEPARTMENT WILL PAY SEPARATELY FOR SAWING CONCRETE, CONCRETE CURB & GUTTER AND DRILLED TIE BARS.

MONOLITHIC SHIM CONCRETE, CONCRETE PLACEMENT AND FINISHING IS INCIDENTAL TO THE CONCRETE CURB & GUTTER BID ITEM.

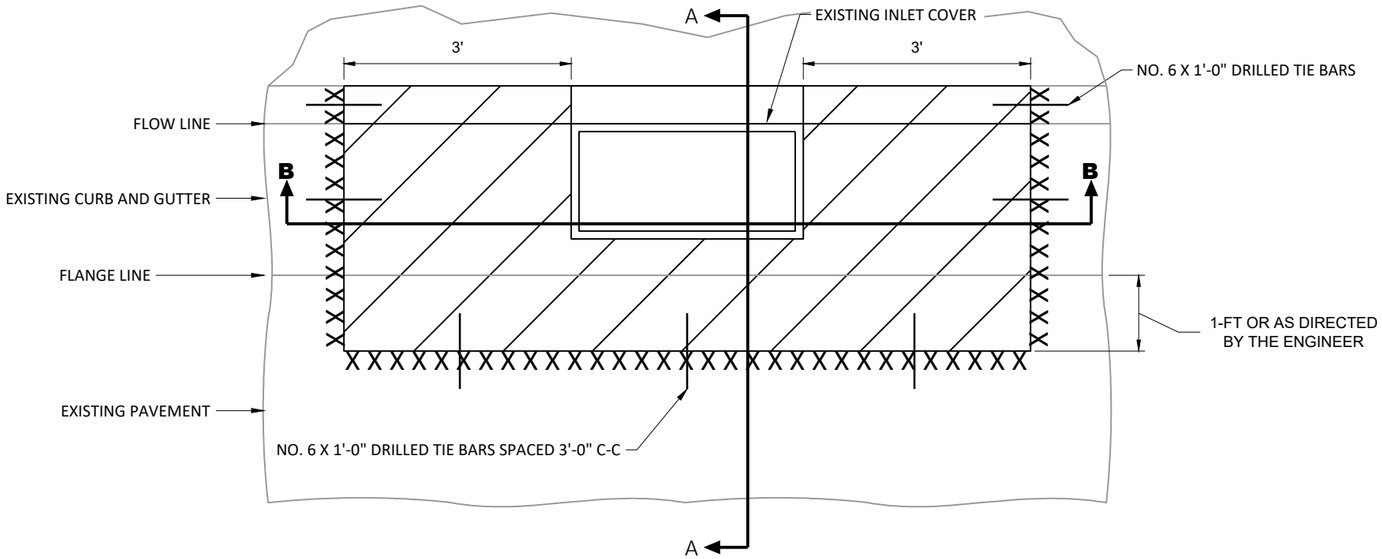
PREVENT CONCRETE AND OTHER DEBRIS FROM FALLING INTO STRUCTURE.

REFER TO PLAN DETAILS AND MISCELLANEOUS QUANTITIES FOR ADDITIONAL INFORMATION.

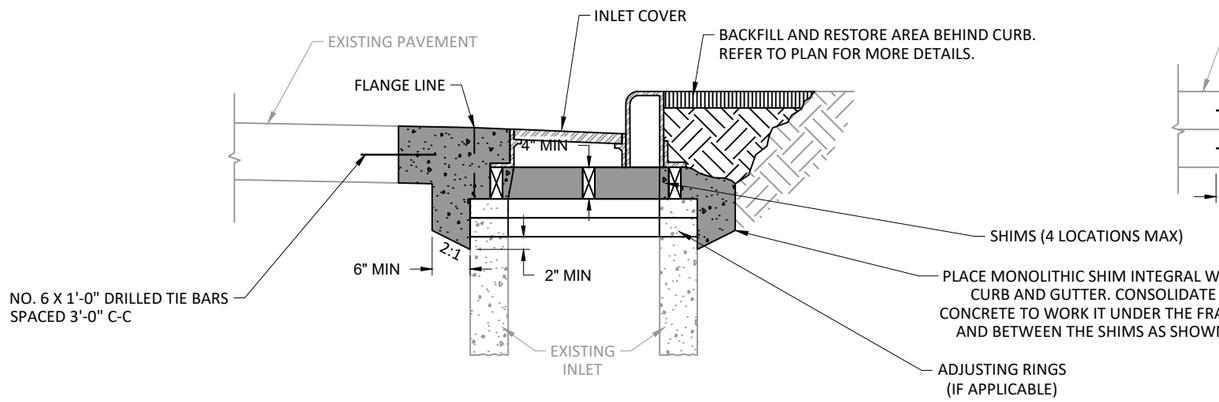
XXX SAWING CONCRETE

REMOVING CURB & GUTTER AND PAVEMENT

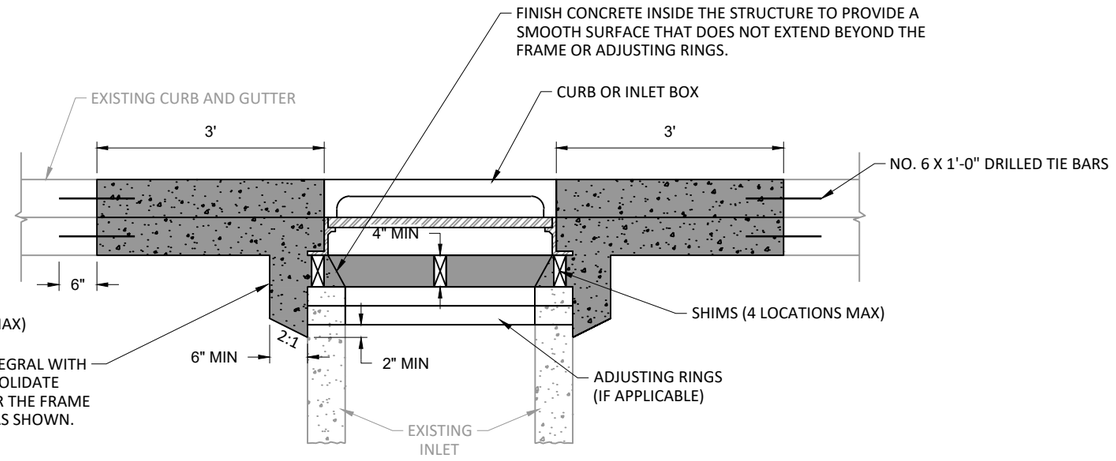
MONOLITHIC CONCRETE



PLAN VIEW



SECTION A-A



SECTION B-B

ADJUSTING / RECONSTRUCTING CATCH BASINS & INLETS - MONOLITHIC SHIM WITH CONCRETE PAVEMENT

NTS

2

PRIOR TO MILLING AND PAVING.

A. SAWCUT EXISTING PAVEMENT FULL DEPTH.
B. REMOVE AND STORE MANHOLE COVER.
C. FURNISH AND INSTALL TEMPORARY COVER PLATE.
D. BACKFILL USING ASPHALT SURFACE PATCHING.

AFTER PAVING HMA LOWER LAYER(S)

A. REMOVE ASPHALTIC SURFACE PATCHING.
B. EXCAVATE AROUND MANHOLE.
C. ADJUST OR RECONSTRUCT MANHOLE AND RE-INSTALL MANHOLE FRAME AND COVER.
D. POUR MONOLITHIC CONCRETE SHIM SO CONCRETE FILLS IN VOIDS BELOW THE CASTING BETWEEN THE SHIMS.
E. PAVE UPPER LAYER HMA.

PAVEMENT REMOVAL, ASPHALT PATCH REMOVAL, EXCAVATING, PREPARING THE FOUNDATION AND SHIMMING ARE INCIDENTAL TO THE ADJUSTING OR RECONSTRUCTING BID ITEMS.

THE DEPARTMENT WILL PAY SEPARATELY FOR SAWING ASPHALT, COVER PLATES TEMPORARY, ASPHALTIC SURFACE PATCHING AND BASE PATCHING CONCRETE SHES.

MONOLITHIC SHIM CONCRETE, CONCRETE PLACEMENT AND FINISHING IS INCIDENTAL TO THE BASE PATCHING CONCRETE SHES BID ITEM.

PREVENT CONCRETE AND OTHER DEBRIS FROM FALLING INTO STRUCTURE.

REFER TO PLAN DETAILS AND MISCELLANEOUS QUANTITIES FOR ADDITIONAL INFORMATION.

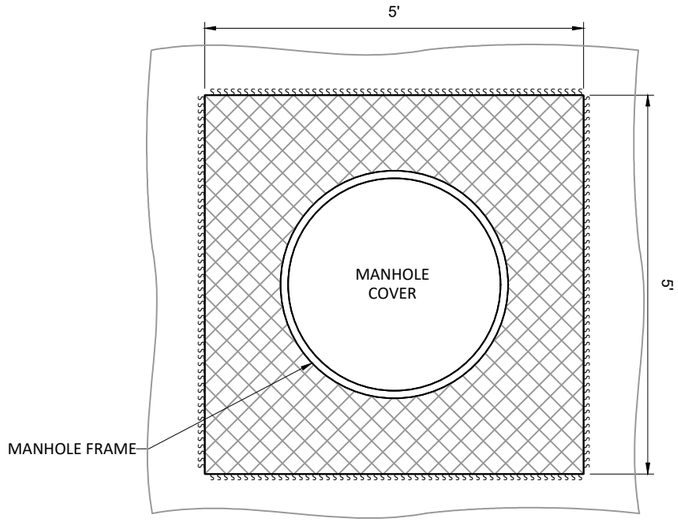
*SAWCUT WILL ONLY BE PAID ONCE. REMOVE ASPHALT SURFACE PATCHING MATERIAL TO THE ORIGINAL SAWCUT LIMITS.

S S S SAWING ASPHALT

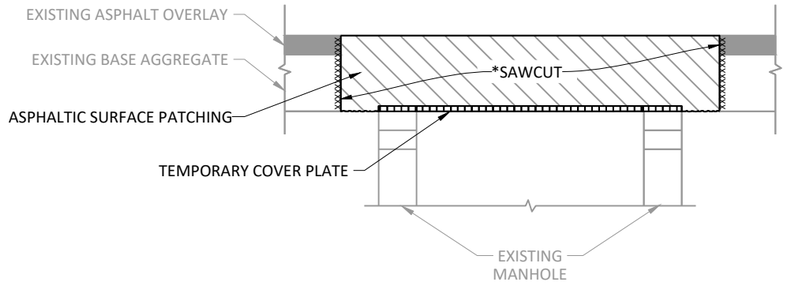
REMOVING PAVEMENT
(INCIDENTAL TO ADJUSTING / RECOSNTRUCTING BID ITEMS)

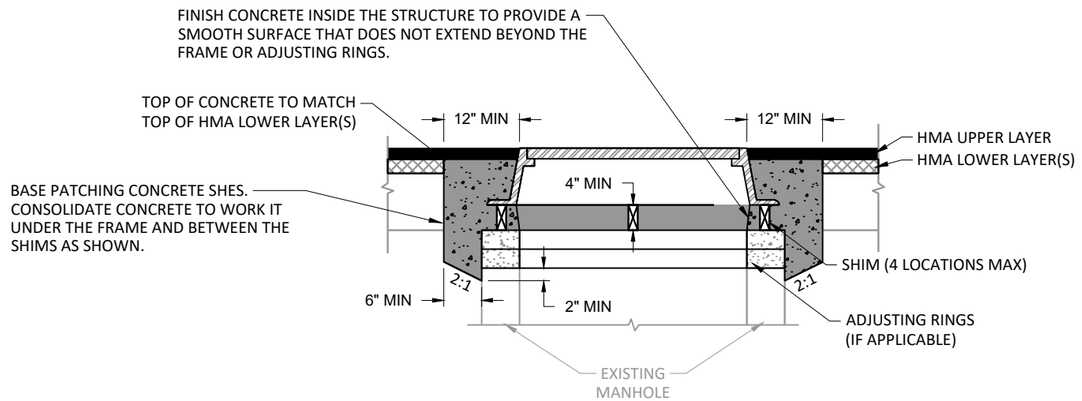
ASPHALTIC SURFACE PATCHING

MONOLITHIC CONCRETE



PLAN VIEW





ADJUSTING / RECONSTRUCTING MANHOLES - MONOLITHIC SHIM WITH HMA PAVEMENT

NTS

LEGEND

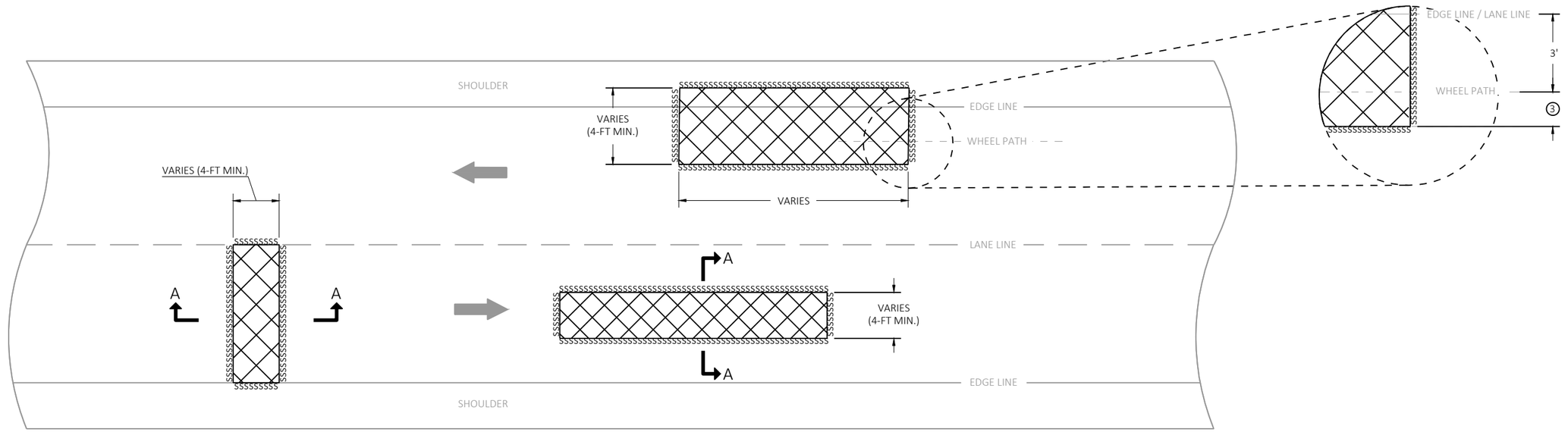
ASPHALTIC REPAIR

SSSSSS VERTICAL MILLED EDGE
SAW CUTTING AT THE CONTRACTORS DISCRETION

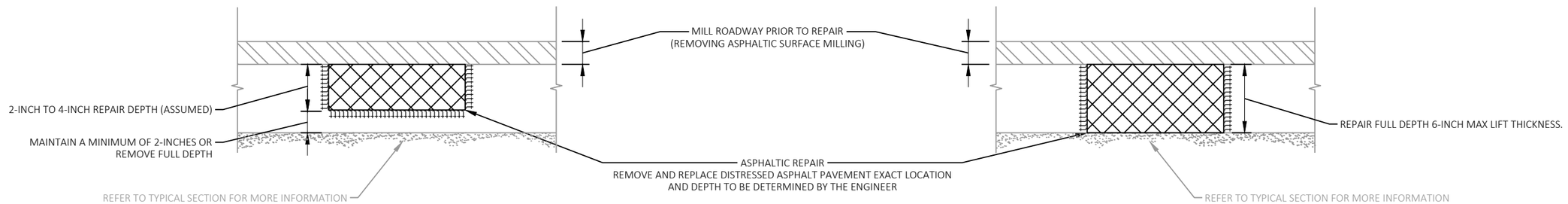
TTTTTT TACK COAT

GENERAL NOTES

1. EXACT LOCATION, DEPTH AND SIZE OF REPAIR TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
2. MAKE FULL DEPTH ASPHALTIC REPAIRS ASSOCIATED WITH TRAFFIC SIGNAL LOOP PLACEMENT PRIOR TO MILLING. AT ALL OTHER LOCATIONS, MILL PAVEMENT PER PLAN PRIOR TO MAKING ASPHALTIC REPAIR.
3. LOCATE LONGITUDINAL REPAIR JOINTS OUTSIDE OF WHEEL PATH. 12-INCH MINIMUM (24-INCH RECOMMENDED) FROM THE CENTER OF THE WHEEL PATH.
4. ASPHALTIC REPAIR PAVING TO BE DONE ON THE SAME DAY AS REMOVAL.



PLAN VIEW



PARTIAL DEPTH

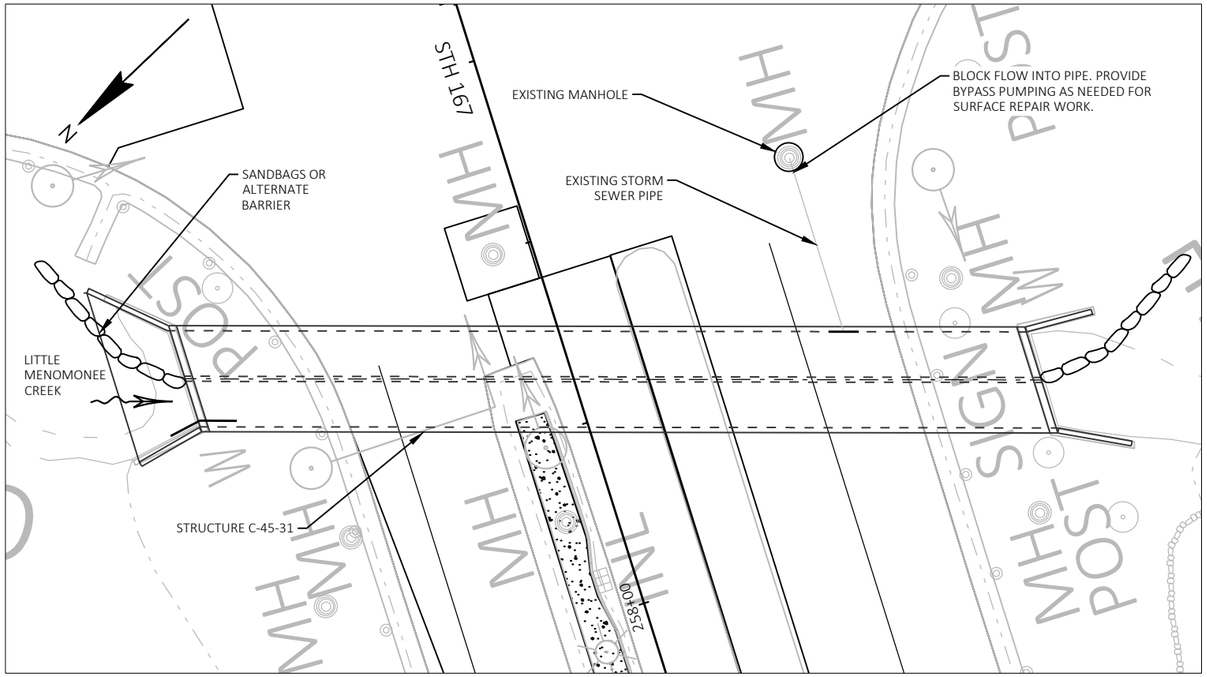
FULL DEPTH

SECTION A-A

ASPHALTIC REPAIR

NTS

2



STREAM DIVERSION AT C-45-31

EAST CELL BYPASS SHOWN, WEST CELL BYPASS SIMILAR

BEGIN PROJECT
STA 199+89.00

REMOVING CONCRETE SIDEWALK

REMOVING CONCRETE SIDEWALK

REMOVING CONCRETE SIDEWALK

09 N
24 19
25 30
R 20 E

N

EXISTING R/W

R/L STH 167

REMOVING CURB AND GUTTER

MATCH LINE 214+00

199 200 201 202 203 204 205 206 207 208 209 210 211 212 213

STH 167/MEQUON RD

N WASAUKEE RD

REMOVING CONCRETE SIDEWALK

EXISTING R/W

MATCH LINE 214+00

BEGIN ASPHALTIC SURFACE MILLING
STA 219+50.00

REMOVING SMALL PIPE CULVERT

EXISTING R/W

R/L STH 167

N

MATCH LINE 228+75

214 215 216 217 218 219 220 221 222 223 224 225 226 227 228

STH 167/MEQUON RD

EXISTING R/W

REMOVING ASPHALTIC
SURFACE BUTT JOINTS

LEGEND

- REMOVING CONCRETE PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING
- CONTINUOUS DIAMOND GRINDING CONCRETE PAVEMENT
- CONCRETE PAVEMENT REPAIR/REPLACEMENT
- ASPHALTIC REPAIR
- XXXXXXXXXXX SAWING ASPHALT
- SAWING CONCRETE

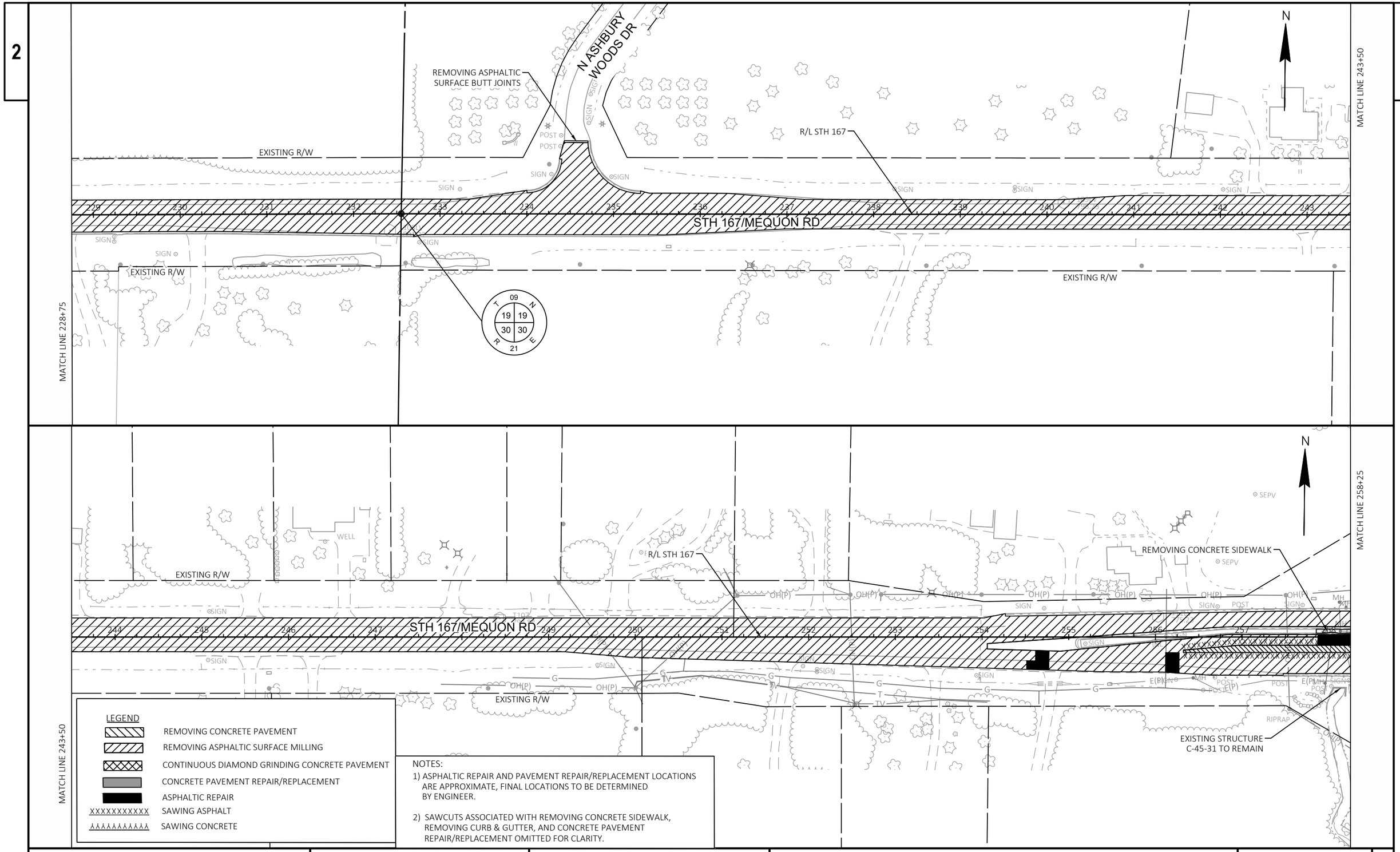
NOTES:

1) ASPHALTIC REPAIR AND PAVEMENT REPAIR/REPLACEMENT LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS TO BE DETERMINED BY ENGINEER.

2) SAWCUTS ASSOCIATED WITH REMOVING CONCRETE SIDEWALK, REMOVING CURB & GUTTER, AND CONCRETE PAVEMENT REPAIR/REPLACEMENT OMITTED FOR CLARITY.

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	REMOVAL PLAN	SHEET 21	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\021201-RM.DWG
LAYOUT NAME - 01
PLOT DATE : 2/18/2025 3:59 PM
PLOT BY : MITCHELL FULLER
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44



PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	REMOVAL PLAN	SHEET 22	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\021201-RM.DWG
LAYOUT NAME - 02
PLOT DATE : 10/31/2024 12:29 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

2

EXISTING STRUCTURE C-45-31 TO REMAIN

REMOVING ASPHALTIC SURFACE BUTT JOINTS

GRANVILLE RD

09 / 19 20 / 30 29 / 21 (T 09 N, R 21 E)

STH 167/MEQUON RD

R/L STH 167

EXISTING R/W

MATCH LINE 258+25

REMOVING CONCRETE SIDEWALK

REMOVING CONCRETE SIDEWALK

REMOVING CONCRETE SIDEWALK

REMOVING ASPHALTIC SURFACE BUTT JOINTS

SURFACE REPAIRS PERFORMED IN 2024
ASSESS PAVEMENT CONDITION AFTER MILLING

EXISTING R/W

SUTTON RIDGE DR

REMOVING ASPHALTIC SURFACE BUTT JOINTS

MATCH LINE 273+00

N

MATCH LINE 273+00

REMOVING ASPHALTIC SURFACE BUTT JOINTS

N FARMDALE RD

R/L STH 167

EXISTING R/W

STH 167/MEQUON RD

760.20

EXISTING R/W

SURFACE REPAIRS PERFORMED IN 2024
ASSESS PAVEMENT CONDITION AFTER MILLING

09 / 20 20 / 29 29 / 21 (T 09 N, R 21 E)

MATCH LINE 287+75

N

2

LEGEND

- REMOVING CONCRETE PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING
- CONTINUOUS DIAMOND GRINDING CONCRETE PAVEMENT
- CONCRETE PAVEMENT REPAIR/REPLACEMENT
- ASPHALTIC REPAIR
- XXXXXXXXXXX SAWING ASPHALT
- SAWING CONCRETE

NOTES:

1) ASPHALTIC REPAIR AND PAVEMENT REPAIR/REPLACEMENT LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS TO BE DETERMINED BY ENGINEER.

2) SAWCUTS ASSOCIATED WITH REMOVING CONCRETE SIDEWALK, REMOVING CURB & GUTTER, AND CONCRETE PAVEMENT REPAIR/REPLACEMENT OMITTED FOR CLARITY.

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	REMOVAL PLAN	SHEET 23	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\021201-RM.DWG
LAYOUT NAME - 03

PLOT DATE : 2/18/2025 4:00 PM PLOT BY : MITCHELL FULLER PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

2

MATCH LINE 287+75

N

MATCH LINE 302+50

2

R/L STH 167

EXISTING R/W

STH 167/MEQUON RD

288 289 290 293 294 295 296 297 298 299 300 301 302

EXISTING R/W

SURFACE REPAIRS PERFORMED IN 2024
ASSESS PAVEMENT CONDITION AFTER MILLING

NOTES:
1) ASPHALTIC REPAIR AND PAVEMENT REPAIR/REPLACEMENT LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS TO BE DETERMINED BY ENGINEER.

2) SAWCUTS ASSOCIATED WITH REMOVING CONCRETE SIDEWALK, REMOVING CURB & GUTTER, AND CONCRETE PAVEMENT REPAIR/REPLACEMENT OMITTED FOR CLARITY.

SOLAR PANEL

RIPRAP

WALLS

MATCH LINE 302+50

N

SLOPE INTERCEPT (TYP)

N SWAN RD

REMOVE RETAINING WALL R-45-42

REMOVING ASPHALTIC SURFACE

REMOVING CURB AND GUTTER

REMOVING ASPHALTIC SURFACE BUTT JOINTS

GRUBBING LIMITS

EXISTING R/W

R/L STH 167

STH 167/MEQUON RD

303 304 305 307 308 309 310 311 312 313 314 315 316 317

737.61

EXISTING R/W

SURFACE REPAIRS PERFORMED IN 2024
ASSESS PAVEMENT CONDITION AFTER MILLING

REMOVING ASPHALTIC SURFACE BUTT JOINTS

EXISTING R/W

RUINS

WELL

MATCH LINE 317+25

LEGEND

- REMOVING CONCRETE PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING
- CONTINUOUS DIAMOND GRINDING CONCRETE PAVEMENT
- CONCRETE PAVEMENT REPAIR/REPLACEMENT
- ASPHALTIC REPAIR
- XXXXXXXXXXX SAWING ASPHALT
- SAWING CONCRETE

T 09 N
20 21
29 28
R 21 E

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	REMOVAL PLAN	SHEET 24	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\021201-RM.DWG
LAYOUT NAME - 04

PLOT DATE : 10/31/2024 12:29 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

2

MATCH LINE 317+25

EXISTING R/W

STH 167/MEQUON RD

EXISTING R/W

EXISTING R/W

R/L STH 167

SLOPE INTERCEPT (TYP)

GRUBBING LIMITS

REMOVING ASPHALTIC SURFACE BUTT JOINTS

N BRIGHTON PL

STAUSS CEMETERY

EXISTING R/W

MATCH LINE 332+00

2

NOTES:

1) ASPHALTIC REPAIR AND PAVEMENT REPAIR/REPLACEMENT LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS TO BE DETERMINED BY ENGINEER.

2) SAWCUTS ASSOCIATED WITH REMOVING CONCRETE SIDEWALK, REMOVING CURB & GUTTER, AND CONCRETE PAVEMENT REPAIR/REPLACEMENT OMITTED FOR CLARITY.

N

MATCH LINE 332+00

REMOVING ASPHALTIC SURFACE BUTT JOINTS

REMOVING CURB AND GUTTER

REMOVING ASPHALTIC SURFACE

N MEADOWBROOK DR

REMOVING ASPHALTIC SURFACE

REMOVING CURB AND GUTTER

EXISTING R/W

STH 167/MEQUON RD

EXISTING R/W

REMOVING ASPHALTIC SURFACE

REMOVING CURB AND GUTTER

REMOVING ASPHALTIC SURFACE BUTT JOINTS

N WHILTON RD

T 09 N
R 21 E
21 21
28 28

SLOPE INTERCEPT (TYP)

R/L STH 167

EXISTING R/W

GRUBBING LIMITS

EXISTING R/W

N

MATCH LINE 346+75

LEGEND

- REMOVING CONCRETE PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING
- CONTINUOUS DIAMOND GRINDING CONCRETE PAVEMENT
- CONCRETE PAVEMENT REPAIR/REPLACEMENT
- ASPHALTIC REPAIR
- XXXXXXXXXXX SAWING ASPHALT
- ΔΔΔΔΔΔΔΔΔΔΔ SAWING CONCRETE

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	REMOVAL PLAN	SHEET 25	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\021201-RM.DWG
LAYOUT NAME - 05

PLOT DATE : 10/31/2024 12:29 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

2

2

MATCH LINE 346+75

MATCH LINE 361+50.01

MATCH LINE 361+50.01

MATCH LINE 376+25.01

N

N

STH 167/MEQUON RD

VEGA AVE

LINCOLNSHIRE DR

SOLAR AVE

STH 181/
N WAUWATOSA RD

STH 167/MEQUON RD

REMOVING ASPHALTIC SURFACE BUTT JOINTS

SLOPE INTERCEPT (TYP)

REMOVING CURB & GUTTER

REMOVING ASPHALTIC SURFACE

EXISTING R/W

REMOVING CURB & GUTTER

REMOVING ASPHALTIC SURFACE

SLOPE INTERCEPT (TYP)

GRUBBING LIMITS

EXISTING R/W

REMOVING ASPHALTIC SURFACE BUTT JOINTS

REMOVING STORM SEWER

REMOVING CURB AND GUTTER

REMOVING ASPHALTIC SURFACE

REMOVING CURB AND GUTTER

REMOVING ASPHALTIC SURFACE

REMOVING CONCRETE SIDEWALK

EXISTING R/W

REMOVING ASPHALTIC SURFACE BUTT JOINTS

REMOVING ASPHALTIC SURFACE BUTT JOINTS

REMOVING ASPHALTIC SURFACE BUTT JOINTS

EXISTING R/W

REMOVING ASPHALTIC SURFACE

REMOVING CURB AND GUTTER

REMOVING ASPHALTIC SURFACE BUTT JOINTS

R/L STH 167

REMOVING CONCRETE SIDEWALK

REMOVING ASPHALTIC SURFACE

REMOVING CURB & GUTTER

REMOVING CONCRETE SIDEWALK

EXISTING R/W

REMOVING CONCRETE SIDEWALK

END ASPHALTIC SURFACE MILLING STA 359+85.63

347 348 349 350 351 352 353 354 355 356 357 358 359 360 361

362 363 364 365 366 367 368 369 370 371 372 373 374 375 376

T 09 N
R 21 22 E
28 27
21

LEGEND

- REMOVING CONCRETE PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING
- CONTINUOUS DIAMOND GRINDING CONCRETE PAVEMENT
- CONCRETE PAVEMENT REPAIR/REPLACEMENT
- ASPHALTIC REPAIR
- XXXXXXXXXXX SAWING ASPHALT
- ΛΛΛΛΛΛΛΛΛΛΛ SAWING CONCRETE

NOTES:

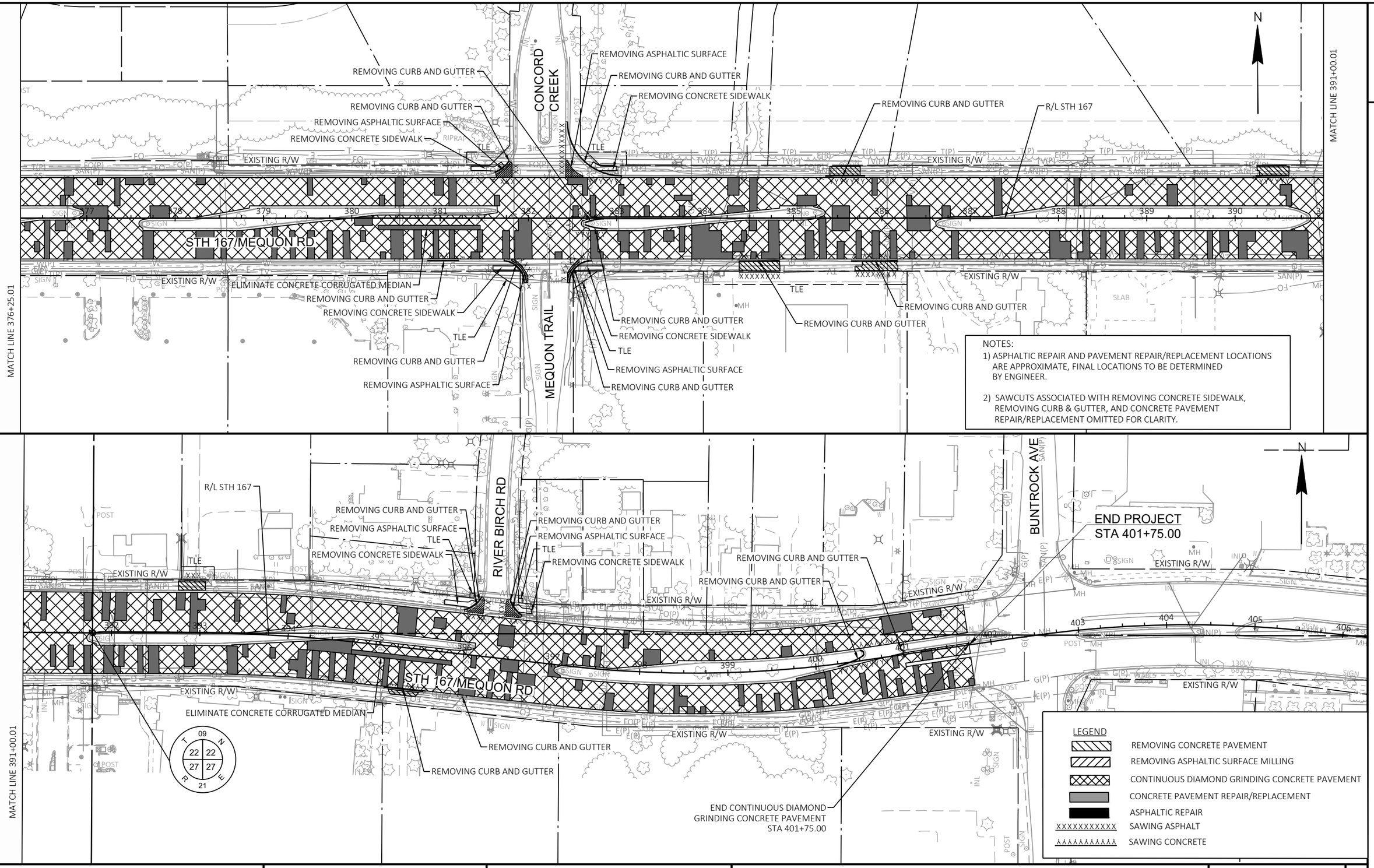
1) ASPHALTIC REPAIR AND PAVEMENT REPAIR/REPLACEMENT LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS TO BE DETERMINED BY ENGINEER.

2) SAWCUTS ASSOCIATED WITH REMOVING CONCRETE SIDEWALK, REMOVING CURB & GUTTER, AND CONCRETE PAVEMENT REPAIR/REPLACEMENT OMITTED FOR CLARITY.

R/L STH 167

BEGIN CONTINUOUS DIAMOND GRINDING CONCRETE PAVEMENT STA 373+43.30

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	REMOVAL PLAN	SHEET 26	E



PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	REMOVAL PLAN	SHEET 27	E

2

2

N

STH 167/MEQUON RD

N WASAUKEE RD

REMOVING CONCRETE SIDEWALK

REMOVING CONCRETE SIDEWALK

REMOVING CONCRETE SIDEWALK

EXISTING R/W

EXISTING R/W

EXISTING R/W

REMOVING CONCRETE SIDEWALK

R/L STH 167

EXISTING R/W

09
24 19
25 30
20

LEGEND

- REMOVING CONCRETE PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING
- CONTINUOUS DIAMOND GRINDING CONCRETE PAVEMENT
- CONCRETE PAVEMENT REPAIR/REPLACEMENT
- ASPHALTIC REPAIR
- XXXXXXXXXXX SAWING ASPHALT
- ΛΛΛΛΛΛΛΛΛΛ SAWING CONCRETE

NOTES:

1) ASPHALTIC REPAIR AND PAVEMENT REPAIR/REPLACEMENT LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS TO BE DETERMINED BY ENGINEER.

2) SAWCUTS ASSOCIATED WITH REMOVING CONCRETE SIDEWALK, REMOVING CURB & GUTTER, AND CONCRETE PAVEMENT REPAIR/REPLACEMENT OMITTED FOR CLARITY.

N

R/L STH 167

REMOVING CONCRETE SIDEWALK

EXISTING R/W

GRANVILLE RD

EXISTING R/W

REMOVING CONCRETE SIDEWALK

REMOVING CONCRETE SIDEWALK

STH 167/MEQUON RD

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	REMOVAL PLAN	SHEET 28	E

2

2

BRASS MON.
STA 204+91.90
X = 564857.273
Y = 366146.147

T 09 N
R 24 19 E
25 30
20

N WASAUKEE RD

N

WETLAND BOUNDARY (TYP)

EXISTING R/W

R/L STH 167

STA 203+87.88
-64.02

STA 203+77.76
-63.22

STA 203+77.92
-58.73

STA 203+88.38
-59.42

STA 203+67.46
-27.07

STA 203+67.46
-23.36

STA 206+02.11
-7.14

STA 206+02.11
-3.36

R/L N WASAUKEE RD

202 203 204 205 206 207

450 449 448

SIGN POST MH INL SS E E(P) FO(P) T(P) OH G SLAB RIPRAP FLAG SEPV

LEGEND

HMA2	2" HMA PAVEMENT
HMA6	2" HMA PAVEMENT OVER 4.5" ASPHALTIC SURFACE PATCHING
CG30A	CONCRETE CURB AND GUTTER 30 INCH TYPE A
CG30D	CONCRETE CURB AND GUTTER 30 INCH TYPE D
CD7	CONCRETE DRIVEWAY 7-INCH
AD5	5" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
	CONCRETE PAVEMENT REPAIR/REPLACEMENT
	ASPHALTIC REPAIR
	CONCRETE SIDEWALK 5-INCH OVER 4" BASE AGGREGATE DENSE 1 ¼-INCH
	ASPHALTIC SURFACE PATCHING

ASPHALTIC REPAIR AND PAVEMENT REPAIR/REPLACEMENT LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS TO BE DETERMINED BY ENGINEER.

NOTES:

1) CURB AND GUTTER LOCATIONS ARE GIVEN TO THE FACE OF CURB.

2) CURB AND GUTTER RADII ARE MEASURED TO THE FACE OF CURB.

3) SEE TYPICAL SECTIONS AND EROSION CONTROL FOR RESTORATION.

4) SEE CURB RAMP DETAILS FOR ADDITIONAL INFORMATION.

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PLAN DETAILS	SHEET 29	E

2

N

ASPHALTIC MILL & OVERLAY

EXISTING R/W

09 / 19 20 / 30 29 / 21 (T N R E)

ALUM. MON.
STA 259+07.71
X = 570272.617
Y = 366216.558

GRANVILLE RD

STH 167/MEQUON RD

WETLAND BOUNDARY (TYP)

R/L STH 167

STA 259+09.29
-89.28

STA 256+95.29
9.50

STA 256+32.34
14.52

STA 256+32.39
18.00

STA 257+85.57
-9.03

STA 257+85.57
-4.63

STA 258+45.07
8.83

STA 258+45.07
17.33

STA 259+58.20
-11.50

STA 259+58.20
-3.00

STA 260+16.66
10.62

STA 260+16.66
14.93

STA 262+39.93
-11.50

STA 262+39.93
-3.00

STA 259+28.75
70.21

CONCRETE MEDIAN SLOPED NOSE

STA 259+80.80
64.85

CG30D

STA 259+23.83
69.05

STA 259+71.24
66.20

STA 259+44.53
95.04

CG30D

STA 259+42.07
104.73

R/L GRANVILLE RD

STA 259+06.05
169.06

LEGEND

HMA2	2" HMA PAVEMENT
HMA6	2" HMA PAVEMENT OVER 4.5" ASPHALTIC SURFACE PATCHING
CG30A	CONCRETE CURB AND GUTTER 30 INCH TYPE A
CG30D	CONCRETE CURB AND GUTTER 30 INCH TYPE D
CD7	CONCRETE DRIVEWAY 7-INCH
AD5	5" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
	CONCRETE PAVEMENT REPAIR/REPLACEMENT
	ASPHALTIC REPAIR
	CONCRETE SIDEWALK 5-INCH OVER 4" BASE AGGREGATE DENSE 1 ¼-INCH
	ASPHALTIC SURFACE PATCHING

ASPHALTIC REPAIR AND PAVEMENT REPAIR/REPLACEMENT LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS TO BE DETERMINED BY ENGINEER.

NOTES:

1) CURB AND GUTTER LOCATIONS ARE GIVEN TO THE FACE OF CURB.

2) CURB AND GUTTER RADII ARE MEASURED TO THE FACE OF CURB.

3) SEE TYPICAL SECTIONS AND EROSION CONTROL FOR RESTORATION.

4) SEE CURB RAMP DETAILS FOR ADDITIONAL INFORMATION.

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PLAN DETAILS	SHEET 30	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\021201-PD.DWG
LAYOUT NAME - PD2
PLOT DATE : 2/18/2025 4:00 PM
PLOT BY : MITCHELL FULLER
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

MATCH LINE 316+75

N

N SWAN RD

STH 167/MEQUON RD

ASPHALTIC MILL & OVERLAY

EXISTING R/W

EXISTING SANITARY MANHOLE TO REMAIN

SLOPE INTERCEPT (TYP)

REMOVE RETAINING WALL R-45-42

WALLS

STA 312+24.03
-61.17

STA 312+55.99
-43.51

STA 312+97.52
-84.00
R=58'

STA 313+50.00
-37.50

STA 314+00.00
-35.50

STA 314+62.24
-26.00

STA 314+72.24
-26.00

STA 316+50.84
-24.00

STA 316+40.84
-24.00

STA 312+80.40
-28.58

STA 312+93.29
-26.33

STA 313+03.07
-26.00

R/L STH 167

WETLAND BOUNDARY (TYP)

STA 312+17.09
85.03

ALUM. MON.
STA 312+19.59
X = 575584.185
Y = 366273.908

09
20 21
29 28
21

T N R E

NOTES:

1) CURB AND GUTTER LOCATIONS ARE GIVEN TO THE FACE OF CURB.

2) CURB AND GUTTER RADII ARE MEASURED TO THE FACE OF CURB.

3) SEE TYPICAL SECTIONS AND EROSION CONTROL FOR RESTORATION.

4) SEE CURB RAMP DETAILS FOR ADDITIONAL INFORMATION.

LEGEND

HMA2	2" HMA PAVEMENT
HMA6	2" HMA PAVEMENT OVER 4.5" ASPHALTIC SURFACE PATCHING
CG30A	CONCRETE CURB AND GUTTER 30 INCH TYPE A
CG30D	CONCRETE CURB AND GUTTER 30 INCH TYPE D
CD7	CONCRETE DRIVEWAY 7-INCH
AD5	5" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
	CONCRETE PAVEMENT REPAIR/REPLACEMENT
	ASPHALTIC REPAIR
	CONCRETE SIDEWALK 5-INCH OVER 4" BASE AGGREGATE DENSE 1 ¼-INCH
	ASPHALTIC SURFACE PATCHING

ASPHALTIC REPAIR AND PAVEMENT REPAIR/REPLACEMENT LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS TO BE DETERMINED BY ENGINEER.

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PLAN DETAILS	SHEET 31	E

2

2

N

MATCH LINE 322+00

MATCH LINE 316+75

ASPHALTIC MILL & OVERLAY

EXISTING SANITARY MANHOLE TO REMAIN

EXISTING R/W

SLOPE INTERCEPT (TYP)

EXISTING SANITARY MANHOLE TO REMAIN

STA 321+64.55
-24.00

STA 321+54.55
-24.00

CG30D

STA 318+96.87
-40.53

CD7

AD5

STA 319+10.86
-40.53

STA 318+94.07
-30.50

STA 319+11.26
-30.50

HMA2

STA 318+88.62
-24.56

CD7

STA 319+14.92
-24.54

HMA2

317 318 319 320 321

STH 167/MEQUON RD

HMA2

HMA2

R/L STH 167

EXISTING R/W

STA 321+23.13
24.00

CG30D

STA 321+33.13
24.00

FLAG

SIGN

MH

INL

SS

SAN(P)

OH

G

E(P)

11'

5'

LEGEND

HMA2	2" HMA PAVEMENT
HMA6	2" HMA PAVEMENT OVER 4.5" ASPHALTIC SURFACE PATCHING
CG30A	CONCRETE CURB AND GUTTER 30 INCH TYPE A
CG30D	CONCRETE CURB AND GUTTER 30 INCH TYPE D
CD7	CONCRETE DRIVEWAY 7-INCH
AD5	5" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
	CONCRETE PAVEMENT REPAIR/REPLACEMENT
	ASPHALTIC REPAIR
	CONCRETE SIDEWALK 5-INCH OVER 4" BASE AGGREGATE DENSE 1 ¼-INCH
	ASPHALTIC SURFACE PATCHING

ASPHALTIC REPAIR AND PAVEMENT REPAIR/REPLACEMENT LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS TO BE DETERMINED BY ENGINEER.

NOTES:

1) CURB AND GUTTER LOCATIONS ARE GIVEN TO THE FACE OF CURB.

2) CURB AND GUTTER RADII ARE MEASURED TO THE FACE OF CURB.

3) SEE TYPICAL SECTIONS AND EROSION CONTROL FOR RESTORATION.

4) SEE CURB RAMP DETAILS FOR ADDITIONAL INFORMATION.

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PLAN DETAILS	SHEET 32	E

2

2

MATCH LINE 327+75

N

ASPHALTIC MILL & OVERLAY

WETLAND BOUNDARY (TYP)

R/L STH 167

SLOPE INTERCEPT (TYP)

EXISTING R/W

STA 325+05.84
-40.51

STA 325+04.19
-30.50

STA 324+95.37
-24.00

STA 324+75.33
-24.00

STA 325+20.79
-40.51

STA 325+22.25
-30.50

STA 325+25.87
-24.67

STA 325+01.01
-24.75

ADJUSTING SANITARY MANHOLE
STA 325+69.47
-36.36

STA 326+54.28
-24.00

STA 326+64.28
-24.00

EXISTING R/W

CD7

CG30D

HMA2

STH 167/MEQUON RD

MINOR RETAINING WALL CAP REPLACEMENT
DO NOT DISTURB EXISTING GROUND
BEHIND RETAINING WALL

STA 325+69.85
61.88

N BRIGHTON PL

STAUSS CEMETERY

MATCH LINE 322+00

LEGEND

HMA2	2" HMA PAVEMENT
HMA6	2" HMA PAVEMENT OVER 4.5" ASPHALTIC SURFACE PATCHING
CG30A	CONCRETE CURB AND GUTTER 30 INCH TYPE A
CG30D	CONCRETE CURB AND GUTTER 30 INCH TYPE D
CD7	CONCRETE DRIVEWAY 7-INCH
AD5	5" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
	CONCRETE PAVEMENT REPAIR/REPLACEMENT
	ASPHALTIC REPAIR
	CONCRETE SIDEWALK 5-INCH OVER 4" BASE AGGREGATE DENSE 1 ¼-INCH
	ASPHALTIC SURFACE PATCHING

ASPHALTIC REPAIR AND PAVEMENT REPAIR/REPLACEMENT LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS TO BE DETERMINED BY ENGINEER.

NOTES:

1) CURB AND GUTTER LOCATIONS ARE GIVEN TO THE FACE OF CURB.

2) CURB AND GUTTER RADII ARE MEASURED TO THE FACE OF CURB.

3) SEE TYPICAL SECTIONS AND EROSION CONTROL FOR RESTORATION.

4) SEE CURB RAMP DETAILS FOR ADDITIONAL INFORMATION.

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PLAN DETAILS	SHEET 33	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\021201-PD.DWG
LAYOUT NAME - PDML3

PLOT DATE : 10/31/2024 12:31 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

MATCH LINE 333+25

ASPHALTIC MILL & OVERLAY

ADJUSTING SANITARY MANHOLE
STA 328+69.77
-36.17

SLOPE INTERCEPT (TYP)

EXISTING SANITARY MANHOLE TO REMAIN

R/L STH 167

EXISTING R/W

STA 331+40.95
-45.49

STA 331+05.00
-32.50

STA 331+40.76
-27.50

STA 331+56.32
-45.49

STA 332+75.00
-35.50

STA 332+60.00
-32.50

STA 330+90.00
-35.50

STA 331+56.83
-27.50

STA 331+37.54
-24.68

STA 331+59.09
-24.71

AD5

CD7

CD7

HMA2

HMA2

HMA2

HMA2

11'

11'

11'

11'

5"

328

329

330

331

332

333

STH 167/MEQUON RD

MH
INL

MH
INL

POST

POST

SIGN

A/C

OH(P)

OH(P)

GI(P)

GI(P)

GI(P)

RIPRAP

STAUSS CEMETERY

MINOR RETAINING WALL CAP REPLACEMENT
DO NOT DISTURB EXISTING GROUND
BEHIND RETAINING WALL

WETLAND BOUNDARY (TYP)

EXISTING R/W

MATCH LINE 327+75

NOTES:

1) CURB AND GUTTER LOCATIONS ARE GIVEN TO THE FACE OF CURB.

2) CURB AND GUTTER RADII ARE MEASURED TO THE FACE OF CURB.

3) SEE TYPICAL SECTIONS AND EROSION CONTROL FOR RESTORATION.

4) SEE CURB RAMP DETAILS FOR ADDITIONAL INFORMATION.

LEGEND

HMA2	2" HMA PAVEMENT
HMA6	2" HMA PAVEMENT OVER 4.5" ASPHALTIC SURFACE PATCHING
CG30A	CONCRETE CURB AND GUTTER 30 INCH TYPE A
CG30D	CONCRETE CURB AND GUTTER 30 INCH TYPE D
CD7	CONCRETE DRIVEWAY 7-INCH
AD5	5" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
	CONCRETE PAVEMENT REPAIR/REPLACEMENT
	ASPHALTIC REPAIR
	CONCRETE SIDEWALK 5-INCH OVER 4" BASE AGGREGATE DENSE 1 ¼-INCH
	ASPHALTIC SURFACE PATCHING

ASPHALTIC REPAIR AND PAVEMENT REPAIR/REPLACEMENT LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS TO BE DETERMINED BY ENGINEER.

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PLAN DETAILS	SHEET 34	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\021201-PD.DWG
LAYOUT NAME - PDML4

PLOT DATE : 10/31/2024 12:32 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

ASPHALTIC MILL & OVERLAY

N MEADOWBROOK DR

N WHILTON RD

STH 167/MEQUON RD

MATCH LINE 338+75

MATCH LINE 333+25

WELL

A/C

WETLAND BOUNDARY (TYP)

EXISTING R/W

R/L STH 167

STA 333+54.71
-24.00

STA 333+44.71
-24.00

STA 333+54.59
24.00

STA 333+44.59
24.00

STA 334+90.90
-62.00
R=38'

STA 334+90.90
-24.00

STA 335+30.95
-64.23

STA 335+23.59
-42.63

STA 335+60.68
-60.77

STA 335+68.49
-42.72

STA 336+01.23
-62.00
R=38'

STA 336+03.28
-24.00

STA 335+98.09
24.00

STA 335+98.09
62.00
R=38'

STA 335+65.39
42.66

STA 335+57.97
61.43

STA 335+34.20
62.44

STA 338+30.16
-24.00

STA 338+20.16
-24.00

ALUM. MON.
STA 338+61.45
X = 578225.975
Y = 366292.536

334 335 336 337 338

LEGEND

HMA2	2" HMA PAVEMENT
HMA6	2" HMA PAVEMENT OVER 4.5" ASPHALTIC SURFACE PATCHING
CG30A	CONCRETE CURB AND GUTTER 30 INCH TYPE A
CG30D	CONCRETE CURB AND GUTTER 30 INCH TYPE D
CD7	CONCRETE DRIVEWAY 7-INCH
AD5	5" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
	CONCRETE PAVEMENT REPAIR/REPLACEMENT
	ASPHALTIC REPAIR
	CONCRETE SIDEWALK 5-INCH OVER 4" BASE AGGREGATE DENSE 1 ¼-INCH
	ASPHALTIC SURFACE PATCHING

ASPHALTIC REPAIR AND PAVEMENT REPAIR/REPLACEMENT LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS TO BE DETERMINED BY ENGINEER.

NOTES:

1) CURB AND GUTTER LOCATIONS ARE GIVEN TO THE FACE OF CURB.

2) CURB AND GUTTER RADII ARE MEASURED TO THE FACE OF CURB.

3) SEE TYPICAL SECTIONS AND EROSION CONTROL FOR RESTORATION.

4) SEE CURB RAMP DETAILS FOR ADDITIONAL INFORMATION.

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PLAN DETAILS	SHEET 35	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\021201-PD.DWG
LAYOUT NAME - PDML5

PLOT DATE : 10/31/2024 12:32 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

MATCH LINE 344+50

MATCH LINE 338+75

ASPHALTIC MILL & OVERLAY

RIPRAP

SLOPE INTERCEPT (TYP)

WETLAND BOUNDARY (TYP)

R/L STH 167

EXISTING R/W

STH 167/MEQUON RD

HMA2

339 340 341 342 343 344

POST

SIGN

MH

INL

OH(P)

SAN(P)

SS

T(P)

G(P)

5'

11'

LEGEND

HMA2	2" HMA PAVEMENT
HMA6	2" HMA PAVEMENT OVER 4.5" ASPHALTIC SURFACE PATCHING
CG30A	CONCRETE CURB AND GUTTER 30 INCH TYPE A
CG30D	CONCRETE CURB AND GUTTER 30 INCH TYPE D
CD7	CONCRETE DRIVEWAY 7-INCH
AD5	5" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
	CONCRETE PAVEMENT REPAIR/REPLACEMENT
	ASPHALTIC REPAIR
	CONCRETE SIDEWALK 5-INCH OVER 4" BASE AGGREGATE DENSE 1 ¼-INCH
	ASPHALTIC SURFACE PATCHING

ASPHALTIC REPAIR AND PAVEMENT REPAIR/REPLACEMENT LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS TO BE DETERMINED BY ENGINEER.

NOTES:

1) CURB AND GUTTER LOCATIONS ARE GIVEN TO THE FACE OF CURB.

2) CURB AND GUTTER RADII ARE MEASURED TO THE FACE OF CURB.

3) SEE TYPICAL SECTIONS AND EROSION CONTROL FOR RESTORATION.

4) SEE CURB RAMP DETAILS FOR ADDITIONAL INFORMATION.

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PLAN DETAILS	SHEET 36	E

2

N

MATCH LINE 349+75

ASPHALTIC MILL & OVERLAY

SLOPE INTERCEPT (TYP)

STA 344+94.64
-24.00

CG30D

STA 345+04.64
-24.00

AD5

CD7

STA 346+29.08
-40.47

STA 346+42.20
-40.47

STA 346+28.75
-30.50

STA 346+25.03
-24.47

STA 346+45.56
-30.50

STA 346+49.24
-24.58

CD7

STA 347+94.64
-24.00

CG30D

STA 348+04.64
-24.00

POST

EXISTING R/W

STH 167/MEQUON RD

HMA2

HMA2

HMA2

11'

11'

11'

5'

345

346

347

348

349

MH

INL

POST

SAN(P)

MH

SAN(P)

R/L STH 167

STA 347+95.90
24.00

CG30D

STA 348+05.90
24.00

MH

INL

SIGN

EXISTING R/W

MATCH LINE 344+50

LEGEND

HMA2	2" HMA PAVEMENT
HMA6	2" HMA PAVEMENT OVER 4.5" ASPHALTIC SURFACE PATCHING
CG30A	CONCRETE CURB AND GUTTER 30 INCH TYPE A
CG30D	CONCRETE CURB AND GUTTER 30 INCH TYPE D
CD7	CONCRETE DRIVEWAY 7-INCH
AD5	5" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
	CONCRETE PAVEMENT REPAIR/REPLACEMENT
	ASPHALTIC REPAIR
	CONCRETE SIDEWALK 5-INCH OVER 4" BASE AGGREGATE DENSE 1 ¼-INCH
	ASPHALTIC SURFACE PATCHING

ASPHALTIC REPAIR AND PAVEMENT REPAIR/REPLACEMENT LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS TO BE DETERMINED BY ENGINEER.

NOTES:

1) CURB AND GUTTER LOCATIONS ARE GIVEN TO THE FACE OF CURB.

2) CURB AND GUTTER RADII ARE MEASURED TO THE FACE OF CURB.

3) SEE TYPICAL SECTIONS AND EROSION CONTROL FOR RESTORATION.

4) SEE CURB RAMP DETAILS FOR ADDITIONAL INFORMATION.

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PLAN DETAILS	SHEET 37	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\021201-PD.DWG
LAYOUT NAME - PDML7

PLOT DATE : 10/31/2024 12:32 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

ASPHALTIC MILL & OVERLAY

VEGA AVE

STH 167/MEQUON RD

LINCOLNSHIRE DR

MATCH LINE 349+75

MATCH LINE 355+50

N

SLOPE INTERCEPT (TYP)

STA 349+94.75 -24.00

STA 350+04.75 -24.00

STA 351+89.66 -24.00

STA 352+33.21 -61.90

STA 351+93.26 -62.00 R=38'

STA 352+25.99 -42.70

STA 352+63.43 -63.38

STA 352+70.68 -42.65

STA 353+03.39 -62.00 R=38'

STA 353+03.39 -24.00

R/L STH 167

STA 354+28.15 -40.60

STA 354+27.99 -35.57

STA 354+25.72 -35.37

STA 354+22.39 -23.82

STA 354+50.04 -42.48

STA 354+50.30 -37.48

STA 354+12.32 -23.95

STA 354+24.95 -24.90

STA 354+53.31 -27.17

STA 354+39.51 24.56

STA 350+04.13 24.00

STA 349+94.13 24.00

STA 351+94.64 24.00

STA 351+94.64 62.00 R=38'

STA 352+27.38 42.71

STA 352+34.56 62.93

STA 352+96.89 24.00

STA 352+64.10 42.79

STA 352+96.89 62.00 R=38'

STA 352+56.73 61.94

STA 354+15.92 24.62

STA 354+14.88 29.99

STA 354+18.40 30.04

STA 354+14.88 34.99

STA 354+20.27 37.00

STA 354+49.45 24.30

STA 354+39.51 24.19

STA 354+43.69 30.12

STA 354+43.65 35.12

STA 354+38.72 37.08

BERM

LEGEND	
HMA2	2" HMA PAVEMENT
HMA6	2" HMA PAVEMENT OVER 4.5" ASPHALTIC SURFACE PATCHING
CG30A	CONCRETE CURB AND GUTTER 30 INCH TYPE A
CG30D	CONCRETE CURB AND GUTTER 30 INCH TYPE D
CD7	CONCRETE DRIVEWAY 7-INCH
AD5	5" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
	CONCRETE PAVEMENT REPAIR/REPLACEMENT
	ASPHALTIC REPAIR
	CONCRETE SIDEWALK 5-INCH OVER 4" BASE AGGREGATE DENSE 1 ¼-INCH
	ASPHALTIC SURFACE PATCHING

ASPHALTIC REPAIR AND PAVEMENT REPAIR/REPLACEMENT LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS TO BE DETERMINED BY ENGINEER.

NOTES:

1) CURB AND GUTTER LOCATIONS ARE GIVEN TO THE FACE OF CURB.

2) CURB AND GUTTER RADII ARE MEASURED TO THE FACE OF CURB.

3) SEE TYPICAL SECTIONS AND EROSION CONTROL FOR RESTORATION.

4) SEE CURB RAMP DETAILS FOR ADDITIONAL INFORMATION.

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PLAN DETAILS	SHEET 38	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\021201-PD.DWG
LAYOUT NAME - PDML8

PLOT DATE : 10/31/2024 12:32 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

MATCH LINE 361+00

MATCH LINE 355+50

STH 167/MEQUON RD

R/L STH 167

SOLAR AVE

END ASPHALTIC MILL & OVERLAY
STA 359+85.63

SLOPE INTERCEPT (TYP)

STA 356+08.51
-52.31

STA 356+92.39
-38.90

STA 357+05.01
-39.23

STA 356+25.76
-52.99

STA 356+26.31
-43.00

STA 356+08.39
-42.30

STA 356+07.03
-36.16

STA 356+28.35
-37.07

STA 356+83.50
34.51

STA 356+93.38
35.27

STA 357+52.93
38.58

STA 357+50.27
43.80

STA 357+50.11
48.80

STA 357+54.46
50.94

STA 357+76.81
39.48

STA 357+81.30
44.79

STA 357+81.14
49.78

STA 357+76.28
51.63

STA 358+72.07
-66.24
R=24'

STA 358+72.26
-42.24

STA 358+47.26
-41.98

STA 358+95.94
-63.78

STA 358+98.72
-76.52

STA 359+25.10
-74.09

STA 359+27.60
-65.13

STA 359+51.05
-70.23
R=24'

STA 359+56.50
-57.89

STA 359+56.71
-53.12

STA 359+44.25
-47.21

STA 358+99.46
44.45

STA 359+09.45
44.91

EXISTING R/W

HMA2

CG30D

CD7

AD5

11'

13'

SS

SAN(P)

W(P)

TV(P)

G(P)

G(R)

INL

MH

POS

SIGN

WELL

RIPRAP

LEGEND

HMA2	2" HMA PAVEMENT
HMA6	2" HMA PAVEMENT OVER 4.5" ASPHALTIC SURFACE PATCHING
CG30A	CONCRETE CURB AND GUTTER 30 INCH TYPE A
CG30D	CONCRETE CURB AND GUTTER 30 INCH TYPE D
CD7	CONCRETE DRIVEWAY 7-INCH
AD5	5" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
	CONCRETE PAVEMENT REPAIR/REPLACEMENT
	ASPHALTIC REPAIR
	CONCRETE SIDEWALK 5-INCH OVER 4" BASE AGGREGATE DENSE 1 ¼-INCH
	ASPHALTIC SURFACE PATCHING

ASPHALTIC REPAIR AND PAVEMENT REPAIR/REPLACEMENT LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS TO BE DETERMINED BY ENGINEER.

NOTES:

1) CURB AND GUTTER LOCATIONS ARE GIVEN TO THE FACE OF CURB.

2) CURB AND GUTTER RADII ARE MEASURED TO THE FACE OF CURB.

3) SEE TYPICAL SECTIONS AND EROSION CONTROL FOR RESTORATION.

4) SEE CURB RAMP DETAILS FOR ADDITIONAL INFORMATION.

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PLAN DETAILS	SHEET 39	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\021201-PD.DWG
LAYOUT NAME - PDML9
PLOT DATE : 10/31/2024 12:32 PM
PLOT BY : KARIMULLAH HABIBUR
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

NOTES:

1) CURB AND GUTTER LOCATIONS ARE GIVEN TO THE FACE OF CURB.

2) CURB AND GUTTER RADII ARE MEASURED TO THE FACE OF CURB.

3) SEE TYPICAL SECTIONS AND EROSION CONTROL FOR RESTORATION.

4) SEE CURB RAMP DETAILS FOR ADDITIONAL INFORMATION.

R/L STH 181/ N WAUWATOSA RD

STH 181/
N WAUWATOSA RD

R/L STH 167

STH 167/MEQUON RD

EXISTING R/W

MATCH LINE 366+50

MATCH LINE 361+00

LEGEND

HMA2	2" HMA PAVEMENT
HMA6	2" HMA PAVEMENT OVER 4.5" ASPHALTIC SURFACE PATCHING
CG30A	CONCRETE CURB AND GUTTER 30 INCH TYPE A
CG30D	CONCRETE CURB AND GUTTER 30 INCH TYPE D
CD7	CONCRETE DRIVEWAY 7-INCH
AD5	5" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
	CONCRETE PAVEMENT REPAIR/REPLACEMENT
	ASPHALTIC REPAIR
	CONCRETE SIDEWALK 5-INCH OVER 4" BASE AGGREGATE DENSE 1 ¼-INCH
	ASPHALTIC SURFACE PATCHING

ASPHALTIC REPAIR AND PAVEMENT REPAIR/REPLACEMENT LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS TO BE DETERMINED BY ENGINEER.

ALUM. MON.
STA 365+38.40
X = 580898.513
Y = 366311.036

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PLAN DETAILS	SHEET 40	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\021201-PD.DWG
LAYOUT NAME - PDML10

PLOT DATE : 10/31/2024 12:32 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

MATCH LINE 372+00

MATCH LINE 366+50

R/L STH 167

EXISTING R/W

EXISTING R/W

STH 167/MEQUON RD

367 368 369 370 371

14' 12' 12' 14' 14' 12' 12' 8' 8'

LEGEND

HMA2	2" HMA PAVEMENT
HMA6	2" HMA PAVEMENT OVER 4.5" ASPHALTIC SURFACE PATCHING
CG30A	CONCRETE CURB AND GUTTER 30 INCH TYPE A
CG30D	CONCRETE CURB AND GUTTER 30 INCH TYPE D
CD7	CONCRETE DRIVEWAY 7-INCH
AD5	5" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
	CONCRETE PAVEMENT REPAIR/REPLACEMENT
	ASPHALTIC REPAIR
	CONCRETE SIDEWALK 5-INCH OVER 4" BASE AGGREGATE DENSE 1 ¼-INCH
	ASPHALTIC SURFACE PATCHING

ASPHALTIC REPAIR AND PAVEMENT REPAIR/REPLACEMENT LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS TO BE DETERMINED BY ENGINEER.

NOTES:

1) CURB AND GUTTER LOCATIONS ARE GIVEN TO THE FACE OF CURB.

2) CURB AND GUTTER RADII ARE MEASURED TO THE FACE OF CURB.

3) SEE TYPICAL SECTIONS AND EROSION CONTROL FOR RESTORATION.

4) SEE CURB RAMP DETAILS FOR ADDITIONAL INFORMATION.

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PLAN DETAILS	SHEET 41	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\021201-PD.DWG
LAYOUT NAME - PDML11

PLOT DATE : 10/31/2024 12:32 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

MATCH LINE 377+50

N

POST

BEGIN CONTINUOUS DIAMOND GRINDING CONCRETE PAVEMENT STA 373+43.30

POST

SIGN

EXISTING R/W

R/L STH 167

CG30A

STA 376+75.17 -47.95

STA 376+85.17 -47.95

STH 167/MEQUON RD

8'
12'
12'
14'
14'
12'
12'
8'

372 373 374 375 376 377

SIGN

SIGN

INL

INL

INL

INL

SAN(P)

SAN(P)

SAN(P)

STA 374+37.97 48.05

STA 374+47.97 48.05

STA 376+73.88 48.05

STA 376+83.88 48.05

CG30A

CG30A

EXISTING R/W

MH

MH

SIGN

MATCH LINE 372+00

LEGEND

HMA2	2" HMA PAVEMENT
HMA6	2" HMA PAVEMENT OVER 4.5" ASPHALTIC SURFACE PATCHING
CG30A	CONCRETE CURB AND GUTTER 30 INCH TYPE A
CG30D	CONCRETE CURB AND GUTTER 30 INCH TYPE D
CD7	CONCRETE DRIVEWAY 7-INCH
AD5	5" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
	CONCRETE PAVEMENT REPAIR/REPLACEMENT
	ASPHALTIC REPAIR
	CONCRETE SIDEWALK 5-INCH OVER 4" BASE AGGREGATE DENSE 1 ¼-INCH
	ASPHALTIC SURFACE PATCHING

ASPHALTIC REPAIR AND PAVEMENT REPAIR/REPLACEMENT LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS TO BE DETERMINED BY ENGINEER.

NOTES:

1) CURB AND GUTTER LOCATIONS ARE GIVEN TO THE FACE OF CURB.

2) CURB AND GUTTER RADII ARE MEASURED TO THE FACE OF CURB.

3) SEE TYPICAL SECTIONS AND EROSION CONTROL FOR RESTORATION.

4) SEE CURB RAMP DETAILS FOR ADDITIONAL INFORMATION.

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PLAN DETAILS	SHEET 42	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\021201-PD.DWG
LAYOUT NAME - PDML12

PLOT DATE : 10/31/2024 12:32 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

NOTES:

1) CURB AND GUTTER LOCATIONS ARE GIVEN TO THE FACE OF CURB.

2) CURB AND GUTTER RADII ARE MEASURED TO THE FACE OF CURB.

3) SEE TYPICAL SECTIONS AND EROSION CONTROL FOR RESTORATION.

4) SEE CURB RAMP DETAILS FOR ADDITIONAL INFORMATION.

CONTINUOUS DIAMOND GRINDING CONCRETE PAVEMENT

STH 167/MEQUON RD

R/L STH 167

EXISTING R/W

CONCORD CREEK

MEQUON TRAIL

CONCRETE MEDIAN SLOPED NOSE

STA 381+78.08 -64.72

CG30D

STA 381+48.38 -84.47 R=36'

STA 382+44.14 -109.23

STA 382+44.08 -76.00

STA 382+72.08 -75.95 R=28'

TLE

STA 383+05.49 -47.95

STA 381+83.49 -45.96

STA 382+72.08 -47.95

STA 381+62.11 -51.57

STA 380+49.02 -11.95

STA 380+58.23 -11.95

STA 382+51.67 4.55

CG30A

STA 382+84.65 0.49

STA 382+89.15 12.05

STA 382+51.67 8.80

CG30A

STA 381+72.49 48.04

CG30D

STA 382+71.36 48.05

STA 382+71.36 73.22 R=25'

CG30D

STA 382+46.20 73.22

STA 380+48.45 48.05

STA 380+58.45 48.05

CG30A

STA 380+85.74 47.93

STA 381+20.74 47.96

CG30A

ADJUSTING WATER VALVE BOX STA 381+86.31 51.65

STA 381+70.17 73.06 R=25'

STA 381+95.30 72.86

MATCH LINE 383+25

MATCH LINE 377+50

LEGEND

HMA2	2" HMA PAVEMENT
HMA6	2" HMA PAVEMENT OVER 4.5" ASPHALTIC SURFACE PATCHING
CG30A	CONCRETE CURB AND GUTTER 30 INCH TYPE A
CG30D	CONCRETE CURB AND GUTTER 30 INCH TYPE D
CD7	CONCRETE DRIVEWAY 7-INCH
AD5	5" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
	CONCRETE PAVEMENT REPAIR/REPLACEMENT
	ASPHALTIC REPAIR
	CONCRETE SIDEWALK 5-INCH OVER 4" BASE AGGREGATE DENSE 1 ¼-INCH
	ASPHALTIC SURFACE PATCHING

ASPHALTIC REPAIR AND PAVEMENT REPAIR/REPLACEMENT LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS TO BE DETERMINED BY ENGINEER.

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PLAN DETAILS	SHEET 43	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\021201-PD.DWG
LAYOUT NAME - PDML13

PLOT DATE : 10/31/2024 12:32 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

MATCH LINE 388+75

CONTINUOUS DIAMOND GRINDING CONCRETE PAVEMENT

R/L STH 167

EXISTING R/W

STH 167/MEQUON RD

STA 385+41.26
-58.94

STA 385+41.28
-53.94

STA 385+36.26
-47.94

STA 385+75.54
-58.93

STA 385+75.54
-53.93

STA 385+80.54
-47.94

STA 385+03.98
-11.95

STA 385+13.98
-11.95

STA 383+84.83
48.05

STA 383+94.83
48.05

STA 384+38.29
48.45

STA 384+38.35
54.29

STA 384+84.10
48.27

STA 384+84.53
54.29

STA 384+84.56
61.29

STA 385+65.51
48.33

STA 385+65.51
48.83

STA 385+69.51
54.09

STA 385+69.51
61.09

STA 386+04.51
61.08

STA 386+17.71
48.29

STA 386+08.51
48.80

STA 386+18.05
59.07

STA 386+04.51
54.08

STA 388+23.38
48.06

STA 388+33.38
48.06

CG30A

AD5

CD7

TLE

MH

SIGN

384 385 386 387 388

8' 12' 12' 14' 14' 12' 12' 8'

MATCH LINE 383+25

LEGEND

HMA2	2" HMA PAVEMENT
HMA6	2" HMA PAVEMENT OVER 4.5" ASPHALTIC SURFACE PATCHING
CG30A	CONCRETE CURB AND GUTTER 30 INCH TYPE A
CG30D	CONCRETE CURB AND GUTTER 30 INCH TYPE D
CD7	CONCRETE DRIVEWAY 7-INCH
AD5	5" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
	CONCRETE PAVEMENT REPAIR/REPLACEMENT
	ASPHALTIC REPAIR
	CONCRETE SIDEWALK 5-INCH OVER 4" BASE AGGREGATE DENSE 1 ¼-INCH
	ASPHALTIC SURFACE PATCHING

ASPHALTIC REPAIR AND PAVEMENT REPAIR/REPLACEMENT LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS TO BE DETERMINED BY ENGINEER.

NOTES:

1) CURB AND GUTTER LOCATIONS ARE GIVEN TO THE FACE OF CURB.

2) CURB AND GUTTER RADII ARE MEASURED TO THE FACE OF CURB.

3) SEE TYPICAL SECTIONS AND EROSION CONTROL FOR RESTORATION.

4) SEE CURB RAMP DETAILS FOR ADDITIONAL INFORMATION.

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PLAN DETAILS	SHEET 44	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\021201-PD.DWG
LAYOUT NAME - PDML14

PLOT DATE : 10/31/2024 12:33 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

CONTINUOUS DIAMOND GRINDING CONCRETE PAVEMENT

BRASS MON.
STA 391+78.57
X = 583539.269
Y = 366299.867

09 T N 22 22 27 27 R E 21

MATCH LINE 394+25

N

R/L STH 167

STA 390+24.80 -58.89
STA 390+61.04 -58.97
STA 390+24.82 -53.89
STA 390+61.05 -53.97
STA 390+23.37 -48.00
STA 390+60.82 -48.18

CG30A

STH 167/MEQUON RD

8' 12' 12' 14' 14' 12' 12' 8'

389 390 391 392 393 394

13'

AD5
TLE
CD7
CD7

STA 392+82.72 -60.63
STA 392+75.71 -58.61
STA 392+75.72 -53.61
STA 392+79.76 -53.62
STA 392+75.76 -48.38
STA 393+00.94 -60.70
STA 393+05.91 -58.74
STA 393+05.95 -53.74
STA 393+02.25 -53.71
STA 393+06.13 -48.46

EXISTING R/W

MATCH LINE 388+75

LEGEND

HMA2	2" HMA PAVEMENT
HMA6	2" HMA PAVEMENT OVER 4.5" ASPHALTIC SURFACE PATCHING
CG30A	CONCRETE CURB AND GUTTER 30 INCH TYPE A
CG30D	CONCRETE CURB AND GUTTER 30 INCH TYPE D
CD7	CONCRETE DRIVEWAY 7-INCH
AD5	5" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
	CONCRETE PAVEMENT REPAIR/REPLACEMENT
	ASPHALTIC REPAIR
	CONCRETE SIDEWALK 5-INCH OVER 4" BASE AGGREGATE DENSE 1 ¼-INCH
	ASPHALTIC SURFACE PATCHING

ASPHALTIC REPAIR AND PAVEMENT REPAIR/REPLACEMENT LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS TO BE DETERMINED BY ENGINEER.

NOTES:

1) CURB AND GUTTER LOCATIONS ARE GIVEN TO THE FACE OF CURB.
2) CURB AND GUTTER RADII ARE MEASURED TO THE FACE OF CURB.
3) SEE TYPICAL SECTIONS AND EROSION CONTROL FOR RESTORATION.
4) SEE CURB RAMP DETAILS FOR ADDITIONAL INFORMATION.

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PLAN DETAILS	SHEET 45	E

2

LEGEND

HMA2	2" HMA PAVEMENT
HMA6	2" HMA PAVEMENT OVER 4.5" ASPHALTIC SURFACE PATCHING
CG30A	CONCRETE CURB AND GUTTER 30 INCH TYPE A
CG30D	CONCRETE CURB AND GUTTER 30 INCH TYPE D
CD7	CONCRETE DRIVEWAY 7-INCH
AD5	5" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
	CONCRETE PAVEMENT REPAIR/REPLACEMENT
	ASPHALTIC REPAIR
	CONCRETE SIDEWALK 5-INCH OVER 4" BASE AGGREGATE DENSE 1 ¼-INCH
	ASPHALTIC SURFACE PATCHING

ASPHALTIC REPAIR AND PAVEMENT REPAIR/REPLACEMENT LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS TO BE DETERMINED BY ENGINEER.

NOTES:

1) CURB AND GUTTER LOCATIONS ARE GIVEN TO THE FACE OF CURB.

2) CURB AND GUTTER RADII ARE MEASURED TO THE FACE OF CURB.

3) SEE TYPICAL SECTIONS AND EROSION CONTROL FOR RESTORATION.

4) SEE CURB RAMP DETAILS FOR ADDITIONAL INFORMATION.

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PLAN DETAILS	SHEET 46	E

2

END CONTINUOUS DIAMOND GRINDING CONCRETE PAVEMENT STA 401+75.00

R/L STH 167

EXISTING R/W

END PROJECT STA 401+75.00

STH 167/MEQUON RD

BUNTROCK AVE

STA 399+97.99
6.43

STA 400+52.18
-12.00

STA 401+01.99
-12.00

STA 400+07.87
5.25

STA 400+24.43
3.45

STA 401+02.16
-3.82

CG30A

MATCH LINE 399+75

NOTES:

1) CURB AND GUTTER LOCATIONS ARE GIVEN TO THE FACE OF CURB.

2) CURB AND GUTTER RADII ARE MEASURED TO THE FACE OF CURB.

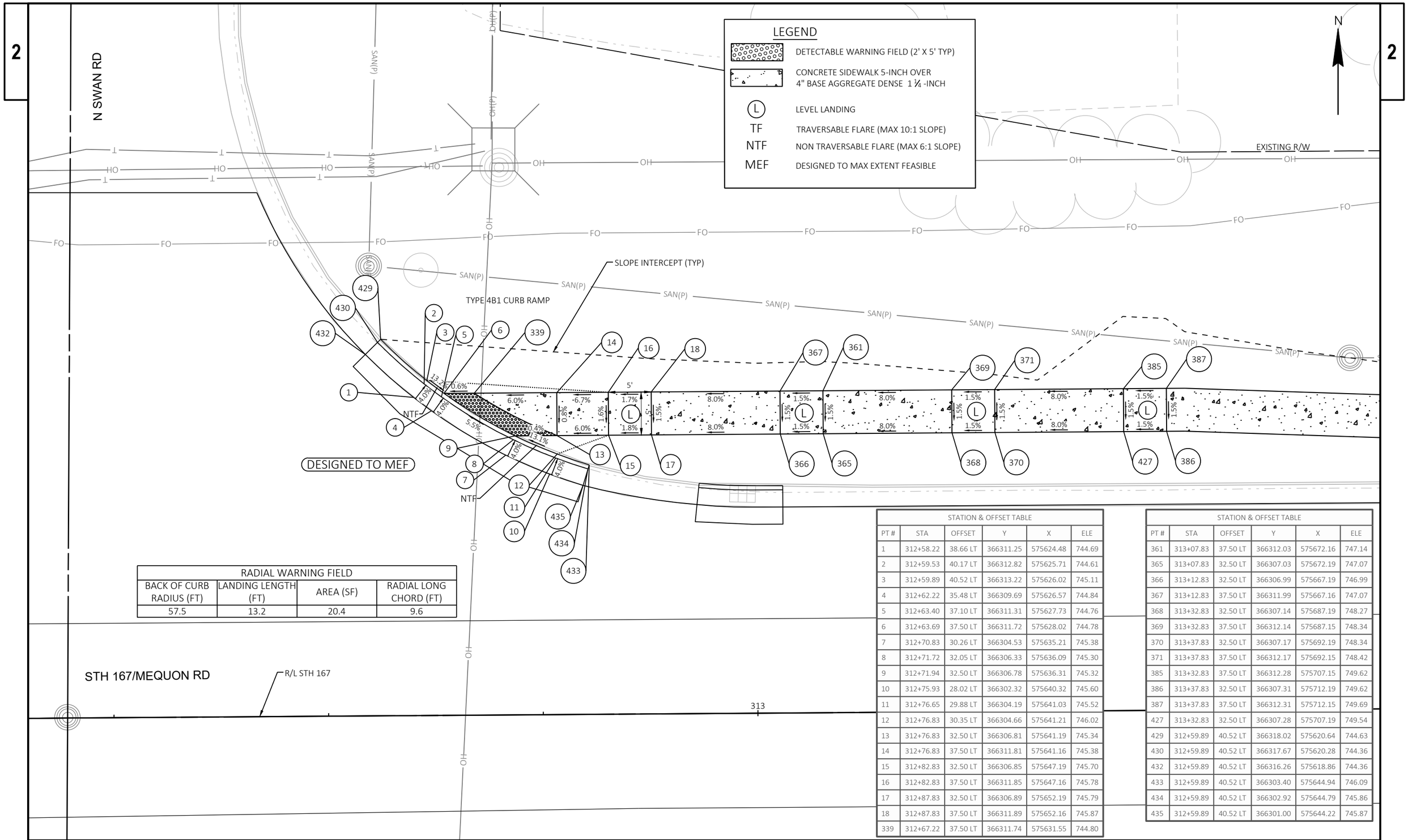
3) SEE TYPICAL SECTIONS AND EROSION CONTROL FOR RESTORATION.

4) SEE CURB RAMP DETAILS FOR ADDITIONAL INFORMATION.

LEGEND

HMA2	2" HMA PAVEMENT
HMA6	2" HMA PAVEMENT OVER 4.5" ASPHALTIC SURFACE PATCHING
CG30A	CONCRETE CURB AND GUTTER 30 INCH TYPE A
CG30D	CONCRETE CURB AND GUTTER 30 INCH TYPE D
CD7	CONCRETE DRIVEWAY 7-INCH
AD5	5" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
	CONCRETE PAVEMENT REPAIR/REPLACEMENT
	ASPHALTIC REPAIR
	CONCRETE SIDEWALK 5-INCH OVER 4" BASE AGGREGATE DENSE 1 ¼-INCH
	ASPHALTIC SURFACE PATCHING

ASPHALTIC REPAIR AND PAVEMENT REPAIR/REPLACEMENT LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS TO BE DETERMINED BY ENGINEER.



RADIAL WARNING FIELD			
BACK OF CURB RADIUS (FT)	LANDING LENGTH (FT)	AREA (SF)	RADIAL LONG CHORD (FT)
57.5	13.2	20.4	9.6

STATION & OFFSET TABLE					
PT #	STA	OFFSET	Y	X	ELE
1	312+58.22	38.66 LT	366311.25	575624.48	744.69
2	312+59.53	40.17 LT	366312.82	575625.71	744.61
3	312+59.89	40.52 LT	366313.22	575626.02	745.11
4	312+62.22	35.48 LT	366309.69	575626.57	744.84
5	312+63.40	37.10 LT	366311.31	575627.73	744.76
6	312+63.69	37.50 LT	366311.72	575628.02	744.78
7	312+70.83	30.26 LT	366304.53	575635.21	745.38
8	312+71.72	32.05 LT	366306.33	575636.09	745.30
9	312+71.94	32.50 LT	366306.78	575636.31	745.32
10	312+75.93	28.02 LT	366302.32	575640.32	745.60
11	312+76.65	29.88 LT	366304.19	575641.03	745.52
12	312+76.83	30.35 LT	366304.66	575641.21	746.02
13	312+76.83	32.50 LT	366306.81	575641.19	745.34
14	312+76.83	37.50 LT	366311.81	575641.16	745.38
15	312+82.83	32.50 LT	366306.85	575647.19	745.70
16	312+82.83	37.50 LT	366311.85	575647.16	745.78
17	312+87.83	32.50 LT	366306.89	575652.19	745.79
18	312+87.83	37.50 LT	366311.89	575652.16	745.87
339	312+67.22	37.50 LT	366311.74	575631.55	744.80

STATION & OFFSET TABLE					
PT #	STA	OFFSET	Y	X	ELE
361	313+07.83	37.50 LT	366312.03	575672.16	747.14
365	313+07.83	32.50 LT	366307.03	575672.19	747.07
366	313+12.83	32.50 LT	366306.99	575667.19	746.99
367	313+12.83	37.50 LT	366311.99	575667.16	747.07
368	313+32.83	32.50 LT	366307.14	575687.19	748.27
369	313+32.83	37.50 LT	366312.14	575687.15	748.34
370	313+37.83	32.50 LT	366307.17	575692.19	748.34
371	313+37.83	37.50 LT	366312.17	575692.15	748.42
385	313+32.83	37.50 LT	366312.28	575707.15	749.62
386	313+37.83	32.50 LT	366307.31	575712.19	749.62
387	313+37.83	37.50 LT	366312.31	575712.15	749.69
427	313+32.83	32.50 LT	366307.28	575707.19	749.54
429	312+59.89	40.52 LT	366318.02	575620.64	744.63
430	312+59.89	40.52 LT	366317.67	575620.28	744.36
432	312+59.89	40.52 LT	366316.26	575618.86	744.36
433	312+59.89	40.52 LT	366303.40	575644.94	746.09
434	312+59.89	40.52 LT	366302.92	575644.79	745.86
435	312+59.89	40.52 LT	366301.00	575644.22	745.87

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	CURB RAMP DETAILS	SHEET 48	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\021201-CR.DWG
LAYOUT NAME - CR1
PLOT DATE : 10/31/2024 12:33 PM
PLOT BY : KARIMULLAH HABIBUR
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

2

STATION & OFFSET TABLE					
PT #	STA	OFFSET	Y	X	ELE
19	335+08.36	26.01 LT	366316.06	577872.72	760.34
20	335+07.49	27.81 LT	366317.85	577871.83	760.26
21	335+07.27	28.26 LT	366318.30	577871.61	760.76
22	335+12.61	28.40 LT	366318.48	577876.94	760.36
23	335+11.52	30.08 LT	366320.15	577875.85	760.28
24	335+11.25	30.50 LT	366320.57	577875.57	760.30
25	335+19.20	33.73 LT	366323.86	577883.50	760.30
26	335+17.79	35.15 LT	366325.26	577882.08	760.22
27	335+17.44	35.50 LT	366325.61	577881.72	760.24
28	335+22.02	36.87 LT	366327.01	577886.30	760.28
29	335+20.48	38.14 LT	366328.27	577884.75	760.20
30	335+20.09	38.46 LT	366328.58	577884.36	760.70

STATION & OFFSET TABLE					
PT #	STA	OFFSET	Y	X	ELE
31	334+96.27	35.50 LT	366325.46	577860.56	760.75
32	334+96.27	30.50 LT	366320.46	577860.60	760.68
33	335+01.27	30.50 LT	366320.50	577865.60	760.62
34	335+01.27	35.50 LT	366325.50	577865.56	760.69
35	335+07.27	30.50 LT	366320.54	577871.60	760.32
36	335+07.27	35.50 LT	366325.54	577871.56	760.33
265	334+90.90	24.00 LT	366313.92	577855.27	760.21
266	334+90.90	24.50 LT	366314.42	577855.27	760.69
425	334+90.90	22.00 LT	366311.92	577855.29	760.29
431	335+20.09	38.46 LT	366333.03	577887.40	760.51
436	335+20.09	38.46 LT	366332.78	577887.83	760.33
437	335+20.09	38.46 LT	366331.77	577889.56	760.25

STATION & OFFSET TABLE					
PT #	STA	OFFSET	Y	X	ELE
37	335+70.07	36.92 LT	366327.40	577934.35	760.37
38	335+71.63	38.17 LT	366328.66	577935.90	760.29
39	335+72.02	38.48 LT	366328.98	577936.29	760.79
40	335+72.93	33.73 LT	366324.23	577937.23	760.40
41	335+74.34	35.15 LT	366325.66	577938.63	760.32
42	335+74.70	35.50 LT	366326.01	577938.98	760.34
43	335+79.53	28.40 LT	366318.95	577943.86	760.56
44	335+80.61	30.08 LT	366320.64	577944.94	760.48
45	335+80.88	30.50 LT	366321.06	577945.20	760.50
46	335+83.77	26.01 LT	366316.59	577948.12	760.67
47	335+84.64	27.81 LT	366318.39	577948.98	760.59
48	335+84.86	28.26 LT	366318.84	577949.20	760.84
49	335+86.98	24.62 LT	366316.20	577948.97	760.68

STATION & OFFSET TABLE					
PT #	STA	OFFSET	Y	X	ELE
50	335+87.70	26.49 LT	366318.02	577949.79	760.60
51	335+87.87	26.96 LT	366318.48	577950.00	760.85
52	335+90.17	23.56 LT	366315.23	577951.33	760.71
53	335+90.72	25.48 LT	366317.10	577952.03	760.63
54	335+90.86	25.96 LT	366317.57	577952.20	760.65
55	335+95.50	22.41 LT	366313.65	577956.67	760.77
56	335+95.79	24.39 LT	366315.60	577957.11	760.69
57	335+95.86	24.89 LT	366316.09	577957.22	760.72
58	335+98.71	22.08 LT	366313.10	577959.71	760.72
59	335+98.84	24.08 LT	366315.08	577959.99	760.71
60	335+98.87	24.57 LT	366315.57	577960.06	761.00
61	335+84.86	35.50 LT	366326.08	577949.14	760.47
62	335+84.86	30.50 LT	366321.08	577949.18	760.55

STATION & OFFSET TABLE					
PT #	STA	OFFSET	Y	X	ELE
63	335+90.86	35.50 LT	366326.11	577952.14	760.68
64	335+90.86	30.50 LT	366321.11	577952.18	760.76
65	335+95.86	25.96 LT	366317.61	577957.20	760.73
66	335+95.86	30.50 LT	366321.14	577957.18	760.83
67	335+95.86	35.50 LT	366326.14	577957.14	760.76
341	335+71.63	38.17 LT	366333.19	577932.72	760.38
344	335+72.02	38.48 LT	366333.44	577933.15	760.57
345	335+98.84	24.08 LT	366314.72	577967.64	760.93
355	335+98.87	24.57 LT	366315.22	577967.64	761.06
438	335+70.07	36.92 LT	366332.16	577931.01	760.31
439	335+98.71	22.08 LT	366312.72	577967.66	760.85

LEGEND

- DETECTABLE WARNING FIELD (2' X 5' TYP)
- CONCRETE SIDEWALK 5-INCH OVER 4" BASE AGGREGATE DENSE 1 ¼ -INCH
- (L) LEVEL LANDING
- TF TRAVERSABLE FLARE (MAX 10:1 SLOPE)
- NTF NON TRAVERSABLE FLARE (MAX 6:1 SLOPE)
- MEF DESIGNED TO MAX EXTENT FEASIBLE

EXISTING R/W

OH

G

SAN(P)

G(P)

N MEADOWBROOK DR

TYPE 4B1 CURB RAMP

TYPE 2 & 4B1 CURB RAMP

SLOPE INTERCEPT (TYP)

NTF

TF - 3" HEIGHT

R/L STH 167

335

336

STH 167/MEQUON RD

N

NW RADIAL WARNING FIELD			
BACK OF CURB RADIUS (FT)	LANDING LENGTH (FT)	AREA (SF)	RADIAL LONG CHORD (FT)
37.5	10.2	16.7	8.0

NE RADIAL WARNING FIELD			
BACK OF CURB RADIUS (FT)	LANDING LENGTH (FT)	AREA (SF)	RADIAL LONG CHORD (FT)
37.5	10.1	16.7	8.1

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	CURB RAMP DETAILS	SHEET 49	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\021201-CR.DWG
LAYOUT NAME - CR2

PLOT DATE : 10/31/2024 12:33 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42

2

N

335

336

R/L STH 167

STH 167/MEQUON RD

0.8%

SAN(P)

G(P)

STATION & OFFSET TABLE					
PT #	STA	OFFSET	Y	X	ELE
68	335+66.91	36.95 RT	366253.51	577931.70	760.60
69	335+68.46	38.21 RT	366252.27	577933.27	760.52
70	335+68.85	38.52 RT	366251.96	577933.66	761.02
71	335+69.79	33.73 RT	366256.75	577934.56	760.64
72	335+71.21	35.15 RT	366255.34	577935.99	760.56
73	335+71.56	35.50 RT	366254.99	577936.35	760.58
74	335+76.58	28.28 RT	366262.25	577941.31	760.71
75	335+77.51	30.06 RT	366260.48	577942.26	760.63
76	335+77.75	30.50 RT	366260.04	577942.50	760.65
77	335+80.79	25.93 RT	366264.62	577945.51	760.74
78	335+81.53	27.80 RT	366262.76	577946.26	760.66
79	335+81.71	28.27 RT	366262.30	577946.45	761.16
80	335+87.06	23.55 RT	366265.67	577947.84	760.76
81	335+87.70	25.45 RT	366263.82	577948.60	760.68
82	335+87.86	25.92 RT	366264.68	577952.58	760.72
83	335+90.38	22.75 RT	366267.08	577951.88	760.78
84	335+90.76	24.71 RT	366265.16	577952.44	760.70
85	335+90.86	25.20 RT	366263.36	577948.79	761.18
86	335+95.71	22.07 RT	366268.25	577957.20	760.80
87	335+95.83	24.07 RT	366266.27	577957.50	760.72
88	335+95.86	24.57 RT	366265.78	577957.57	760.74
89	335+98.09	22.00 RT	366268.65	577961.45	760.83
90	335+98.09	24.00 RT	366266.65	577961.53	760.76
91	335+98.09	24.50 RT	366266.15	577961.55	761.26
92	335+81.72	35.50 RT	366255.06	577946.51	760.74
93	335+81.72	30.50 RT	366260.06	577946.47	760.72
94	335+90.86	35.50 RT	366255.11	577952.65	760.98
95	335+95.86	35.50 RT	366255.14	577957.65	761.05
96	335+90.86	30.50 RT	366260.11	577952.61	760.94
97	335+95.86	30.50 RT	366260.14	577957.61	760.98
98	335+95.86	25.20 RT	366264.72	577957.58	760.75
356	335+98.09	24.00 RT	366266.68	577962.80	760.78
388	335+98.09	24.50 RT	366266.18	577962.80	761.08
415	335+98.09	24.00 RT	366247.79	577930.22	760.60
417	335+98.09	24.50 RT	366247.54	577930.65	760.82
440	335+98.09	22.00 RT	366268.68	577962.78	760.83
441	335+98.09	22.00 RT	366248.80	577928.49	760.55

TYPE 2 & 4B1 CURB RAMP

TF

NTF

MEF

SLOPE INTERCEPT (TYP)

EXISTING R/W

EXISTING R/W

N WHILTON RD

SE RADIAL WARNING FIELD			
BACK OF CURB RADIUS (FT)	LANDING LENGTH (FT)	AREA (SF)	RADIAL LONG CHORD (FT)
37.5	10.2	16.7	8.0

LEGEND

- DETECTABLE WARNING FIELD (2' X 5' TYP)
- CONCRETE SIDEWALK 5-INCH OVER 4" BASE AGGREGATE DENSE 1¼ -INCH
- (L) LEVEL LANDING
- TF TRAVERSABLE FLARE (MAX 10:1 SLOPE)
- NTF NON TRAVERSABLE FLARE (MAX 6:1 SLOPE)
- MEF DESIGNED TO MAX EXTENT FEASIBLE

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	CURB RAMP DETAILS	SHEET 50	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\021201-CR.DWG
LAYOUT NAME - CR3

PLOT DATE : 10/31/2024 12:34 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42

STATION & OFFSET TABLE					
PT #	STA	OFFSET	Y	X	ELE
99	351+95.76	22.08 LT	366324.07	579562.33	767.53
100	351+95.64	24.07 LT	366326.05	579562.08	767.45
101	351+95.61	24.57 LT	366326.55	579562.01	767.86
102	351+98.99	22.41 LT	366324.83	579566.53	767.36
103	351+98.70	24.39 LT	366326.77	579566.07	767.28
104	351+98.63	24.89 LT	366327.26	579565.95	767.30
105	352+04.32	23.56 LT	366326.48	579571.85	767.25
106	352+03.77	25.48 LT	366328.35	579571.12	767.21
107	352+03.63	25.96 LT	366328.81	579570.94	767.23
108	352+07.49	24.62 LT	366327.48	579574.18	767.20

STATION & OFFSET TABLE					
PT #	STA	OFFSET	Y	X	ELE
109	352+06.78	26.49 LT	366329.29	579573.34	767.12
110	352+06.60	26.95 LT	366329.74	579573.13	767.45
111	352+10.69	26.00 LT	366327.87	579575.00	767.19
112	352+09.82	27.80 LT	366329.67	579574.12	767.11
113	352+09.60	28.25 LT	366330.11	579573.90	767.44
114	352+14.96	28.40 LT	366330.30	579579.26	767.12
115	352+13.88	30.08 LT	366331.98	579578.17	767.04
116	352+13.61	30.50 LT	366332.40	579577.89	767.06
117	352+21.56	33.73 LT	366335.68	579585.82	767.04
118	352+20.15	35.15 LT	366337.09	579584.40	766.96

STATION & OFFSET TABLE					
PT #	STA	OFFSET	Y	X	ELE
119	352+19.79	35.50 LT	366337.44	579584.04	766.98
120	352+24.47	36.98 LT	366337.58	579587.58	766.97
121	352+22.86	38.17 LT	366338.94	579586.10	766.89
122	352+22.46	38.47 LT	366339.28	579585.74	767.39
123	351+98.63	35.50 LT	366337.31	579565.88	767.32
124	351+98.63	30.50 LT	366332.31	579565.92	767.35
125	351+98.63	25.96 LT	366328.78	579565.94	767.31
126	352+03.63	30.50 LT	366332.35	579570.92	767.27
127	352+03.63	35.50 LT	366337.35	579570.88	767.24
128	352+09.63	35.50 LT	366337.37	579573.88	767.10

STATION & OFFSET TABLE					
PT #	STA	OFFSET	Y	X	ELE
129	352+09.63	30.50 LT	366332.37	579573.92	767.12
442	351+95.76	22.08 LT	366323.73	579554.00	767.64
443	351+95.64	24.07 LT	366325.73	579553.99	767.69
444	351+95.61	24.57 LT	366326.23	579553.99	767.97
445	351+95.76	22.08 LT	366343.67	579591.92	766.81
446	351+95.64	24.07 LT	366344.93	579589.76	767.14
447	351+95.61	24.57 LT	366344.68	579590.19	766.76

STATION & OFFSET TABLE					
PT #	STA	OFFSET	Y	X	ELE
130	352+72.26	36.89 LT	366339.63	579636.14	765.59
131	352+73.82	38.15 LT	366340.87	579637.70	765.51
132	352+74.20	38.46 LT	366341.18	579638.09	765.91
133	352+75.08	33.73 LT	366336.05	579639.34	765.37
134	352+76.50	35.15 LT	366337.48	579640.75	765.29
135	352+76.85	35.50 LT	366337.83	579641.10	765.31
136	352+81.68	28.40 LT	366330.77	579645.98	765.13
137	352+82.77	30.08 LT	366332.45	579647.05	765.09
138	352+83.04	30.50 LT	366332.88	579647.32	765.11
139	352+85.92	26.01 LT	366329.16	579648.75	765.03
140	352+86.80	27.81 LT	366330.93	579649.68	764.95
141	352+87.01	28.26 LT	366331.37	579649.92	765.45
142	352+87.01	35.50 LT	366337.90	579651.26	765.28
143	352+87.01	30.50 LT	366332.90	579651.30	765.18
144	352+93.01	35.50 LT	366337.95	579657.26	765.25
145	352+93.01	30.50 LT	366332.95	579657.30	765.16
146	352+98.01	35.50 LT	366337.98	579662.26	765.19
147	352+98.01	30.50 LT	366332.98	579662.30	765.11
342	352+79.76	35.50 LT	366337.85	579644.01	765.36
448	352+72.26	36.89 LT	366343.91	579633.17	765.80
449	352+73.82	38.15 LT	366344.94	579634.88	765.92
450	352+74.20	38.46 LT	366345.20	579635.31	766.20
451	352+72.26	36.89 LT	366324.52	579667.73	764.31
452	352+73.82	38.15 LT	366326.52	579667.71	764.28
453	352+74.20	38.46 LT	366327.02	579667.71	764.69

LEGEND

- DETECTABLE WARNING FIELD (2' X 5' TYP)
- CONCRETE SIDEWALK 5-INCH OVER 4" BASE AGGREGATE DENSE 1 ¼ -INCH
- (L) LEVEL LANDING
- TF TRAVERSABLE FLARE (MAX 10:1 SLOPE)
- NTF NON TRAVERSABLE FLARE (MAX 6:1 SLOPE)
- MEF DESIGNED TO MAX EXTENT FEASIBLE

EXISTING R/W

TYPE 2 & 4B1 CURB RAMP

VEGA AVE

SLOPE INTERCEPT (TYP)

TF - 4" HEIGHT

DESIGNED TO MEF

TYPE 4B1 CURB RAMP

DESIGNED TO MEF

NW RADIAL WARNING FIELD			
BACK OF CURB RADIUS (FT)	LANDING LENGTH (FT)	AREA (SF)	RADIAL LONG CHORD (FT)
37.5	10.2	16.7	8.0

NE RADIAL WARNING FIELD			
BACK OF CURB RADIUS (FT)	LANDING LENGTH (FT)	AREA (SF)	RADIAL LONG CHORD (FT)
37.5	10.1	16.7	8.0

352

353

STH 167/MEQUON RD

R/L STH 167

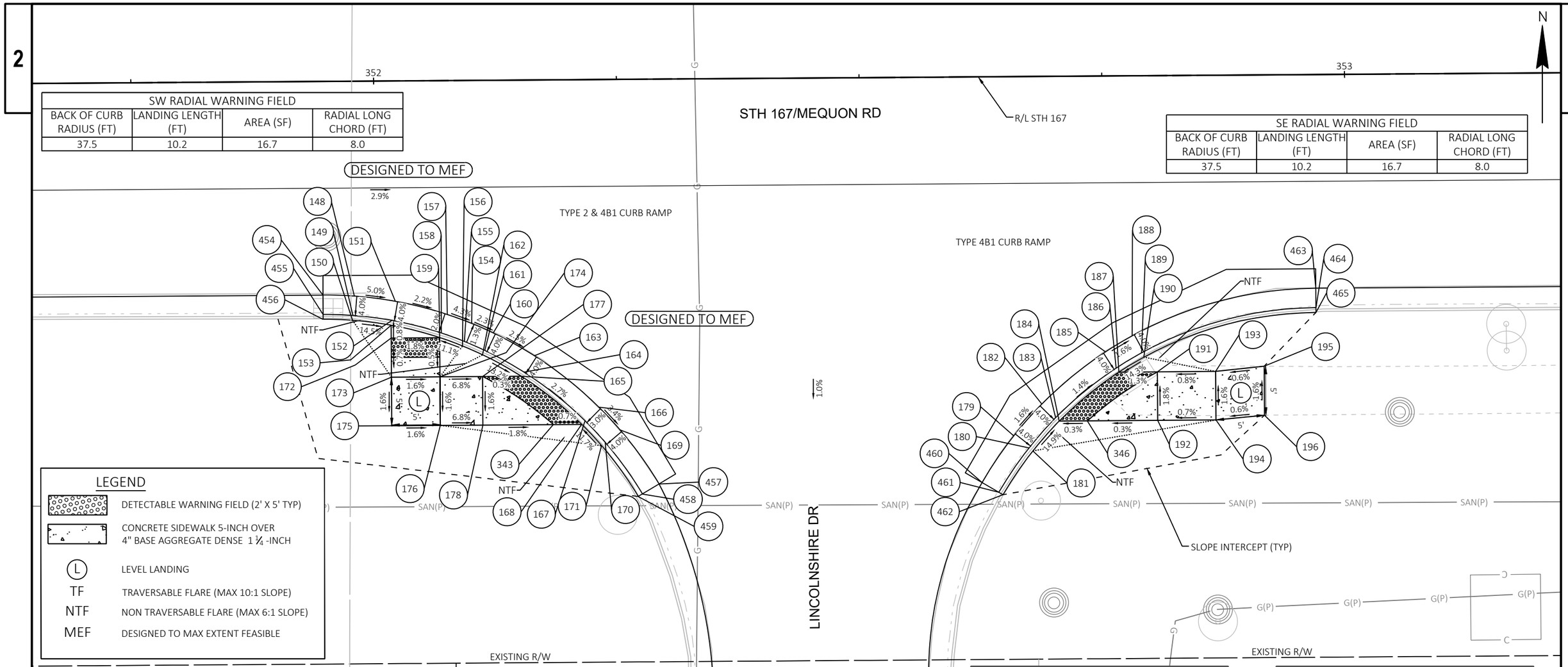
PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	CURB RAMP DETAILS	SHEET 51	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\021201-CR.DWG
LAYOUT NAME - CR4

PLOT DATE : 10/31/2024 12:34 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:10 FT

SW RADIAL WARNING FIELD			
BACK OF CURB RADIUS (FT)	LANDING LENGTH (FT)	AREA (SF)	RADIAL LONG CHORD (FT)
37.5	10.2	16.7	8.0

SE RADIAL WARNING FIELD			
BACK OF CURB RADIUS (FT)	LANDING LENGTH (FT)	AREA (SF)	RADIAL LONG CHORD (FT)
37.5	10.2	16.7	8.0



STATION & OFFSET TABLE					
PT #	STA	OFFSET	Y	X	ELE
148	351+95.65	22.01 RT	366279.66	579562.52	767.34
149	351+95.60	24.01 RT	366277.66	579562.37	767.26
150	351+95.59	24.51 RT	366277.16	579562.33	767.65
151	351+98.88	22.22 RT	366279.12	579566.73	767.13
152	351+98.68	24.21 RT	366277.15	579566.39	767.05
153	351+98.63	24.71 RT	366276.66	579566.30	767.07
154	352+04.23	23.17 RT	366276.84	579574.60	766.90
155	352+03.75	25.11 RT	366274.98	579573.85	766.92
156	352+03.63	25.59 RT	366274.52	579573.66	767.27
157	352+07.43	24.10 RT	366277.76	579572.09	767.01
158	352+06.79	25.99 RT	366275.86	579571.47	766.97
159	352+06.63	26.47 RT	366275.38	579571.31	766.99
160	352+12.14	26.03 RT	366275.86	579576.81	766.84

STATION & OFFSET TABLE					
PT #	STA	OFFSET	Y	X	ELE
161	352+11.26	27.82 RT	366274.06	579575.95	766.76
162	352+11.04	28.27 RT	366273.61	579575.73	767.26
163	352+16.35	28.40 RT	366273.52	579581.04	766.72
164	352+15.26	30.08 RT	366271.83	579579.97	766.64
165	352+14.99	30.50 RT	366271.41	579579.70	766.66
166	352+22.95	33.73 RT	366268.23	579587.68	766.48
167	352+21.53	35.15 RT	366266.81	579586.27	766.42
168	352+21.18	35.50 RT	366266.45	579585.92	766.44
169	352+25.85	36.97 RT	366265.89	579589.86	766.37
170	352+24.29	38.23 RT	366264.58	579588.35	766.29
171	352+23.90	38.54 RT	366264.26	579587.97	766.79
172	351+98.63	25.59 RT	366275.35	579566.31	767.08
173	351+98.63	30.50 RT	366271.31	579566.34	767.05

STATION & OFFSET TABLE					
PT #	STA	OFFSET	Y	X	ELE
174	352+03.63	30.50 RT	366271.35	579571.34	766.97
175	351+98.63	35.50 RT	366266.31	579566.37	766.97
176	352+03.63	35.50 RT	366266.35	579571.37	766.89
177	352+11.02	30.50 RT	366271.38	579575.72	766.67
178	352+11.02	35.50 RT	366266.38	579575.76	766.59
343	352+18.27	35.50 RT	366266.43	579583.01	766.46
454	351+95.65	22.01 RT	366279.77	579559.29	767.44
455	351+95.60	24.01 RT	366277.77	579559.31	767.52
456	351+95.59	24.51 RT	366277.27	579559.31	767.72
457	351+95.65	22.01 RT	366260.31	579593.89	766.03
458	351+95.60	24.01 RT	366259.29	579592.17	766.13
459	351+95.59	24.51 RT	366259.03	579591.75	766.54

STATION & OFFSET TABLE					
PT #	STA	OFFSET	Y	X	ELE
179	352+65.67	36.99 RT	366265.27	579630.43	765.00
180	352+67.24	38.24 RT	366264.03	579632.00	764.92
181	352+67.63	38.55 RT	366263.72	579632.39	765.48
182	352+68.59	33.73 RT	366268.54	579633.32	764.93
183	352+70.00	35.15 RT	366267.14	579634.74	764.85
184	352+70.36	35.50 RT	366266.79	579635.10	764.87
185	352+75.19	28.40 RT	366273.92	579639.88	764.82
186	352+76.27	30.08 RT	366272.25	579640.98	764.74
187	352+76.54	30.50 RT	366271.83	579641.25	764.76
188	352+79.25	26.10 RT	366275.57	579642.62	764.77
189	352+80.13	27.90 RT	366273.81	579643.58	764.69
190	352+80.35	28.35 RT	366273.38	579643.82	765.19
191	352+80.52	30.50 RT	366271.86	579645.23	764.81

STATION & OFFSET TABLE					
PT #	STA	OFFSET	Y	X	ELE
192	352+80.52	35.50 RT	366266.86	579645.26	764.90
193	352+86.52	30.50 RT	366271.90	579651.23	764.86
194	352+86.52	35.50 RT	366266.90	579651.26	764.94
195	352+91.52	29.99 RT	366272.44	579656.22	764.89
196	352+91.52	35.04 RT	366267.40	579656.26	764.97
346	352+73.27	35.50 RT	366266.81	579638.01	764.88
460	352+65.67	36.99 RT	366260.46	579627.16	765.10
461	352+65.67	36.99 RT	366259.46	579628.90	765.17
462	352+65.67	36.99 RT	366259.21	579629.33	765.31
463	352+65.67	36.99 RT	366280.47	579661.54	764.30
464	352+65.67	36.99 RT	366278.47	579661.55	764.62
465	352+65.67	36.99 RT	366277.97	579661.55	764.78

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	CURB RAMP DETAILS	SHEET 52	E

LEGEND

- DETECTABLE WARNING FIELD (2' X 5' TYP)
- CONCRETE SIDEWALK 5-INCH OVER 4" BASE AGGREGATE DENSE 1 ¼ -INCH
- (L) LEVEL LANDING
- TF TRAVERSABLE FLARE (MAX 10:1 SLOPE)
- NTF NON TRAVERSABLE FLARE (MAX 6:1 SLOPE)
- MEF DESIGNED TO MAX EXTENT FEASIBLE

SOLAR AVE

EXISTING R/W

PLE

SLOPE INTERCEPT (TYP)

TYPE 4B1 CURB RAMP

TYPE 4B1 CURB RAMP

R/L STH 167

359

STH 167/MEQUON RD

N

STATION & OFFSET TABLE					
PT #	STA	OFFSET	Y	X	ELE
197	358+86.16	44.39 LT	366381.13	580247.10	748.34
198	358+85.08	46.08 LT	366382.57	580245.71	748.26
199	358+84.81	46.50 LT	366382.93	580245.36	748.76
200	358+90.74	48.15 LT	366383.59	580249.33	748.35
201	358+89.30	49.54 LT	366384.83	580247.77	748.27
202	358+88.94	49.89 LT	366385.15	580247.38	748.29
203	358+94.94	53.87 LT	366389.69	580252.96	748.41
204	358+93.18	54.82 LT	366390.47	580251.12	748.33
205	358+92.74	55.06 LT	366390.66	580250.66	748.35
206	358+96.47	57.26 LT	366393.21	580254.16	748.42
207	358+94.59	57.95 LT	366393.72	580252.23	748.34
208	358+94.12	58.13 LT	366393.84	580251.75	748.84
209	358+77.73	54.40 LT	366388.56	580235.79	748.84
210	358+77.95	49.40 LT	366383.61	580236.49	748.76
211	358+82.95	49.62 LT	366384.31	580241.44	748.70
212	358+82.73	54.62 LT	366389.26	580240.74	748.78
213	358+88.72	54.88 LT	366390.10	580246.68	748.37
347	358+95.94	63.78 LT	366399.65	580253.01	748.39
348	358+95.44	63.83 LT	366399.65	580252.51	748.89
426	358+97.93	63.58 LT	366399.63	580255.01	748.47
466	358+84.81	46.50 LT	366373.78	580206.60	748.94
467	358+84.81	46.50 LT	366373.28	580206.65	748.79
468	358+84.81	46.50 LT	366371.29	580206.86	748.83

STATION & OFFSET TABLE					
PT #	STA	OFFSET	Y	X	ELE
214	359+27.79	58.60 LT	366397.54	580285.22	747.99
215	359+29.58	59.50 LT	366398.60	580286.91	747.91
216	359+30.03	59.72 LT	366398.87	580287.34	748.41
217	359+29.72	55.37 LT	366394.50	580287.44	747.96
218	359+31.36	56.51 LT	366395.80	580288.96	747.86
219	359+31.77	56.79 LT	366396.12	580289.35	747.88
220	359+34.65	50.05 LT	366389.68	580292.87	747.80
221	359+35.91	51.60 LT	366391.35	580293.97	747.76
222	359+36.23	51.99 LT	366391.77	580294.25	747.78
223	359+36.94	48.39 LT	366388.25	580295.30	747.76
224	359+38.03	50.07 LT	366390.03	580296.22	747.68
225	359+38.30	50.49 LT	366390.47	580296.45	748.18
226	359+36.01	56.98 LT	366396.72	580293.55	747.88
227	359+42.00	57.25 LT	366397.56	580299.49	748.04
228	359+42.22	52.25 LT	366392.61	580300.19	747.96
229	359+47.00	57.47 LT	366398.26	580304.44	748.09
230	359+47.22	52.48 LT	366393.30	580305.14	748.01
231	359+56.50	57.89 LT	366399.59	580313.86	748.28
232	359+56.72	52.90 LT	366394.63	580314.56	748.09
469	358+84.81	46.50 LT	366403.41	580282.49	748.18
470	358+84.81	46.50 LT	366404.02	580284.40	748.25
471	358+84.81	46.50 LT	366404.17	580284.87	748.43
472	358+84.81	46.50 LT	366385.81	580302.31	747.72
473	358+84.81	46.50 LT	366387.78	580302.69	747.67
474	358+84.81	46.50 LT	366388.27	580302.79	747.73

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	CURB RAMP DETAILS	SHEET 53	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\021201-CR.DWG
LAYOUT NAME - CR6

PLOT DATE : 10/31/2024 12:34 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42

NW RADIAL WARNING FIELD			
BACK OF CURB RADIUS (FT)	LANDING LENGTH (FT)	AREA (SF)	RADIAL LONG CHORD (FT)
35.1	11.3	18.2	8.5

NE RADIAL WARNING FIELD			
BACK OF CURB RADIUS (FT)	LANDING LENGTH (FT)	AREA (SF)	RADIAL LONG CHORD (FT)
27.5	8.8	15.1	7.2

LEGEND

- DETECTABLE WARNING FIELD (2' X 5' TYP)
- CONCRETE SIDEWALK 5-INCH OVER 4" BASE AGGREGATE DENSE 1 ¼ -INCH
- L — LEVEL LANDING
- TF — TRAVERSABLE FLARE (MAX 10:1 SLOPE)
- NTF — NON TRAVERSABLE FLARE (MAX 6:1 SLOPE)
- MEF — DESIGNED TO MAX EXTENT FEASIBLE

TYPE 4B1 CURB RAMP

TYPE 2 & 4B1 CURB RAMP

SLOPE INTERCEPT (TYP)

EXISTING R/W

CONCORD CREEK

DESIGNED TO MEF

R/L STH 167

STH 167/MEQUON RD

382

383

N

STATION & OFFSET TABLE					
PT #	STA	OFFSET	Y	X	ELE
233	381+62.88	49.72 LT	366353.88	582523.80	710.36
234	381+62.11	51.57 LT	366355.73	582523.04	710.28
235	381+61.92	52.03 LT	366356.19	582522.85	710.78
236	381+66.79	51.62 LT	366355.77	582527.72	710.34
237	381+65.81	53.37 LT	366357.52	582526.75	710.24
238	381+65.57	53.80 LT	366357.95	582526.51	710.26
239	381+74.12	56.98 LT	366361.09	582535.07	710.05
240	381+72.75	58.44 LT	366362.56	582533.71	710.01
241	381+72.41	58.80 LT	366362.93	582533.37	710.03
242	381+77.17	60.19 LT	366362.92	582536.90	709.99
243	381+75.65	61.48 LT	366364.34	582535.49	709.91
244	381+75.26	61.81 LT	366364.69	582535.14	710.41
245	381+49.97	58.79 LT	366363.01	582510.93	710.74
246	381+49.98	53.79 LT	366358.01	582510.91	710.72
247	381+54.97	58.80 LT	366362.99	582515.93	710.65
248	381+54.98	53.80 LT	366357.99	582515.91	710.67
249	381+60.97	58.80 LT	366362.97	582521.93	710.23
250	381+60.98	53.80 LT	366357.97	582521.91	710.32
349	381+69.38	58.80 LT	366362.94	582530.33	710.08
358	381+34.97	58.73 LT	366363.01	582495.93	711.64
359	381+34.98	53.84 LT	366358.12	582495.91	711.44
475	381+77.17	60.19 LT	366367.71	582540.72	709.76
476	381+77.17	60.19 LT	366368.82	582539.06	709.88
477	381+77.17	60.19 LT	366369.09	582538.66	710.01
514	381+49.97	58.79 LT	366363.03	582505.93	711.09
515	381+49.98	53.79 LT	366358.03	582505.91	711.02
516	381+49.97	58.79 LT	366363.05	582500.93	711.35
517	381+49.98	53.79 LT	366358.05	582500.91	711.20

STATION & OFFSET TABLE					
PT #	STA	OFFSET	Y	X	ELE
251	382+46.55	60.19 LT	366364.00	582607.51	709.38
252	382+48.25	61.24 LT	366365.04	582609.22	709.30
253	382+48.68	61.50 LT	366365.30	582609.64	709.80
254	382+48.59	57.29 LT	366361.09	582609.54	709.42
255	382+50.15	58.53 LT	366362.32	582611.11	709.36
256	382+50.54	58.84 LT	366362.63	582611.50	709.38
257	382+54.23	51.83 LT	366355.61	582615.16	709.51
258	382+55.42	53.44 LT	366357.21	582616.35	709.43
259	382+55.72	53.84 LT	366357.61	582616.65	709.45
260	382+64.75	46.86 LT	366350.59	582625.65	709.47
261	382+65.24	48.79 LT	366352.52	582626.15	709.39
262	382+65.36	49.28 LT	366353.01	582626.27	709.41
263	382+59.36	58.84 LT	366362.60	582620.31	709.53

STATION & OFFSET TABLE					
PT #	STA	OFFSET	Y	X	ELE
264	382+59.36	53.84 LT	366357.60	582620.29	709.50
267	382+85.36	58.86 LT	366362.50	582646.31	709.74
268	382+85.36	53.86 LT	366357.50	582646.29	709.73
350	382+65.36	58.85 LT	366362.58	582626.31	709.65
351	382+99.95	58.85 LT	366362.43	582660.91	709.83
352	382+99.90	53.83 LT	366357.42	582660.83	709.81
407	382+70.20	46.01 LT	366349.71	582631.10	709.45
408	382+70.33	48.00 LT	366351.71	582631.24	709.37
409	382+70.36	48.50 LT	366352.21	582631.27	709.39
410	382+70.36	49.28 LT	366352.99	582631.27	709.40
411	382+73.36	45.95 LT	366349.64	582634.26	709.42
412	382+73.36	47.95 LT	366351.64	582634.27	709.34
413	382+73.36	48.45 LT	366352.14	582634.27	709.84

STATION & OFFSET TABLE					
PT #	STA	OFFSET	Y	X	ELE
414	382+70.36	53.85 LT	366357.56	582631.29	709.65
416	382+70.36	58.85 LT	366362.56	582631.31	709.60
418	382+65.36	53.85 LT	366357.58	582626.29	709.68
419	382+59.83	48.56 LT	366353.80	582617.88	709.53
420	382+60.64	50.39 LT	366355.52	582618.90	709.45
421	382+60.85	50.84 LT	366355.95	582619.15	709.95
422	382+61.47	47.88 LT	366351.63	582622.38	709.48
423	382+62.18	49.75 LT	366353.50	582623.10	709.40
424	382+62.36	50.22 LT	366353.96	582623.28	709.90
478	381+77.17	60.19 LT	366349.51	582666.39	709.08
479	381+77.17	60.19 LT	366351.51	582666.40	709.09
480	381+77.17	60.19 LT	366352.01	582666.40	709.44

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	CURB RAMP DETAILS	SHEET 54	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\021201-CR.DWG
LAYOUT NAME - CR7

PLOT DATE : 10/31/2024 12:34 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:10 FT

R/L STH 167

STH 167/MEQUON RD

382

383

STATION & OFFSET TABLE						STATION & OFFSET TABLE					
PT #	STA	OFFSET	Y	X	ELE	PT #	STA	OFFSET	Y	X	ELE
269	381+85.12	50.43 RT	366253.95	582545.14	711.24	283	381+79.75	54.01 RT	366250.09	582540.23	711.63
270	381+84.02	52.10 RT	366252.26	582544.07	711.28	284	381+79.76	59.01 RT	366245.09	582540.22	711.67
271	381+83.74	52.52 RT	366251.84	582543.80	711.78	285	381+85.76	58.99 RT	366245.08	582546.22	711.33
272	381+87.33	52.05 RT	366252.01	582547.82	711.24	353	381+64.75	54.04 RT	366250.11	582525.23	712.02
273	381+86.06	53.60 RT	366250.46	582546.55	711.28	354	381+64.76	59.04 RT	366245.11	582525.22	712.17
274	381+85.75	53.99 RT	366250.08	582546.23	711.30	360	381+59.71	58.85 RT	366245.32	582520.17	712.26
275	381+92.42	57.55 RT	366246.49	582552.89	711.21	362	381+59.75	53.88 RT	366250.29	582520.23	712.06
276	381+90.78	58.69 RT	366245.35	582551.24	711.25	481	381+85.12	50.43 RT	366258.07	582533.18	711.26
277	381+90.37	58.98 RT	366245.07	582550.83	711.27	482	381+85.12	50.43 RT	366256.08	582532.99	711.21
278	381+94.39	60.85 RT	366243.18	582554.84	711.21	483	381+85.12	50.43 RT	366255.58	582532.94	711.60
279	381+92.61	61.75 RT	366242.28	582553.05	711.25	484	381+85.12	50.43 RT	366231.16	582555.20	711.29
280	381+92.16	61.98 RT	366242.06	582552.61	711.75	485	381+85.12	50.43 RT	366231.16	582555.70	711.28
281	381+74.75	54.02 RT	366250.10	582535.23	711.68	486	381+85.12	50.43 RT	366231.17	582557.70	711.23
282	381+74.76	59.02 RT	366245.10	582535.22	711.73						

STATION & OFFSET TABLE						STATION & OFFSET TABLE					
PT #	STA	OFFSET	Y	X	ELE	PT #	STA	OFFSET	Y	X	ELE
391	382+70.34	14.05 RT	366289.66	582630.99	710.12	402	382+70.34	0.57 RT	366303.14	582631.04	709.60
392	382+70.35	12.05 RT	366291.66	582631.01	710.04	403	382+70.25	1.43 LT	366305.14	582630.96	709.68
393	382+70.36	11.55 RT	366292.16	582631.02	710.06	404	382+65.36	1.51 RT	366302.22	582626.06	709.72
394	382+70.36	11.29 RT	366292.41	582631.02	710.06	405	382+65.29	1.02 RT	366302.71	582626.00	709.70
395	382+65.12	13.78 RT	366289.95	582625.77	710.18	406	382+65.03	0.96 LT	366304.70	582625.74	709.78
396	382+65.31	11.79 RT	366291.94	582625.97	710.10	490	382+70.34	0.57 RT	366305.16	582645.36	709.46
397	382+65.36	11.29 RT	366292.44	582626.02	710.12	491	382+70.34	0.57 RT	366303.16	582645.35	709.47
398	382+70.36	6.40 RT	366297.30	582631.04	709.85	492	382+70.34	0.57 RT	366302.66	582645.35	709.76
399	382+65.36	6.40 RT	366297.33	582626.04	709.93	493	382+70.34	0.57 RT	366292.15	582649.81	710.40
400	382+70.36	1.51 RT	366302.19	582631.06	709.62	494	382+70.34	0.57 RT	366291.58	582649.81	710.14
401	382+70.36	1.07 RT	366302.64	582631.06	709.62	495	382+70.34	0.57 RT	366289.58	582649.80	709.93

TYPE 5 CURB RAMP

TYPE 4B1 CURB RAMP

NTF

SLOPE INTERCEPT (TYP)

EXISTING R/W

MEQUON TRAIL

TYPE 3 CURB RAMP

STATION & OFFSET TABLE					
PT #	STA	OFFSET	Y	X	ELE
286	382+47.07	60.69 RT	366243.18	582607.74	710.35
287	382+48.84	61.61 RT	366242.24	582609.51	710.32
288	382+49.29	61.84 RT	366242.01	582609.95	710.82
289	382+48.93	57.64 RT	366246.42	582609.76	710.32
290	382+50.71	58.60 RT	366245.25	582611.38	710.24
291	382+51.15	58.83 RT	366244.96	582611.79	710.26
292	382+54.71	51.80 RT	366251.92	582615.07	710.27
293	382+55.88	53.42 RT	366250.34	582616.30	710.19
294	382+56.18	53.82 RT	366249.95	582616.61	710.21
295	382+57.15	50.22 RT	366253.63	582617.54	710.22
296	382+58.14	51.96 RT	366251.93	582618.59	710.14
297	382+58.39	52.40 RT	366251.50	582618.85	710.64
298	382+56.19	58.82 RT	366244.95	582616.65	710.29
299	382+65.36	53.80 RT	366249.93	582625.84	710.34
300	382+65.36	58.80 RT	366244.93	582625.82	710.39
301	382+70.36	53.79 RT	366249.92	582630.84	710.31
302	382+70.36	58.79 RT	366244.92	582630.82	710.34
340	382+70.36	58.79 RT	366244.91	582635.82	710.50
372	382+61.44	47.93 RT	366255.46	582621.08	710.15
373	382+62.18	49.79 RT	366253.62	582621.87	710.07
374	382+62.36	50.26 RT	366253.16	582622.06	710.57
375	382+64.75	46.87 RT	366256.86	582625.26	710.09
376	382+65.24	48.81 RT	366254.92	582625.74	710.01
377	382+65.36	49.30 RT	366254.43	582625.86	710.03
378	382+70.26	46.08 RT	366257.63	582630.77	710.06
379	382+70.34	48.07 RT	366255.63	582630.84	709.98
380	382+70.36	48.57 RT	366255.13	582630.86	710.00
381	382+73.36	46.05 RT	366257.64	582633.87	710.03
382	382+73.36	47.99 RT	366255.71	582633.86	709.95
383	382+73.36	48.52 RT	366255.18	582633.86	710.39
384	382+70.36	49.30 RT	366254.41	582630.86	710.01
389	382+85.36	53.90 RT	366249.75	582645.84	710.27

STATION & OFFSET TABLE					
PT #	STA	OFFSET	Y	X	ELE
390	382+85.36	58.75 RT	366244.89	582645.82	710.40
428	382+70.36	53.79 RT	366249.91	582635.84	710.42
487	382+47.07	60.69 RT	366230.60	582604.60	710.40
488	382+47.07	60.69 RT	366230.59	582606.60	710.46
489	382+47.07	60.69 RT	366230.59	582607.10	710.64
508	382+70.36	53.79 RT	366249.90	582640.84	710.32
509	382+70.36	58.79 RT	366244.90	582640.82	710.43

LEGEND

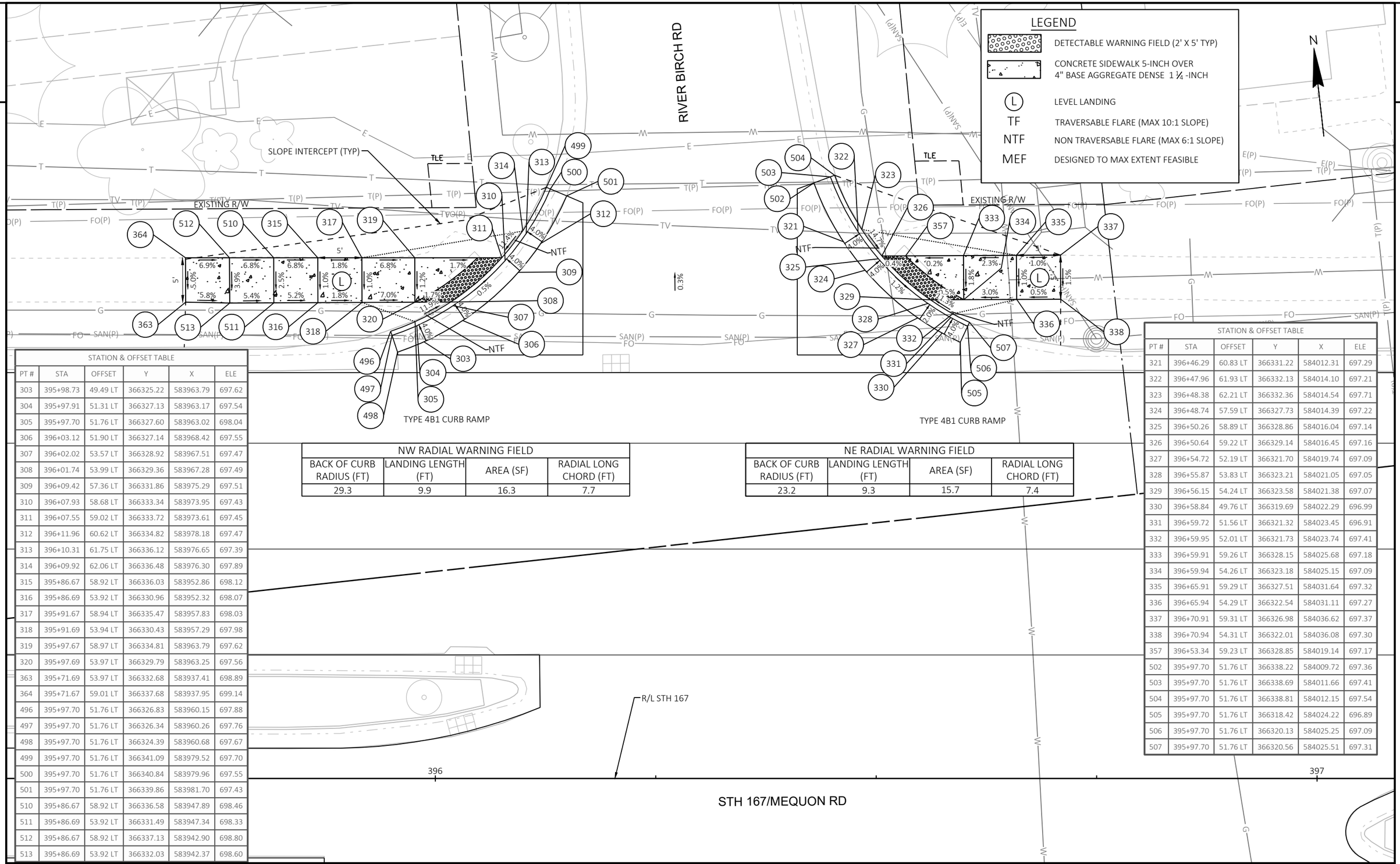
- DETECTABLE WARNING FIELD (2' X 5' TYP)
- CONCRETE SIDEWALK 5-INCH OVER 4" BASE AGGREGATE DENSE 1 ¼ -INCH
- (L) LEVEL LANDING
- TF TRAVERSABLE FLARE (MAX 10:1 SLOPE)
- NTF NON TRAVERSABLE FLARE (MAX 6:1 SLOPE)
- MEF DESIGNED TO MAX EXTENT FEASIBLE

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	CURB RAMP DETAILS	SHEET 55	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\021201-CR.DWG
LAYOUT NAME - CR8

PLOT DATE : 10/31/2024 12:35 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:10 FT

2



STATION & OFFSET TABLE					
PT #	STA	OFFSET	Y	X	ELE
303	395+98.73	49.49 LT	366325.22	583963.79	697.62
304	395+97.91	51.31 LT	366327.13	583963.17	697.54
305	395+97.70	51.76 LT	366327.60	583963.02	698.04
306	396+03.12	51.90 LT	366327.14	583968.42	697.55
307	396+02.02	53.57 LT	366328.92	583967.51	697.47
308	396+01.74	53.99 LT	366329.36	583967.28	697.49
309	396+09.42	57.36 LT	366331.86	583975.29	697.51
310	396+07.93	58.68 LT	366333.34	583973.95	697.43
311	396+07.55	59.02 LT	366333.72	583973.61	697.45
312	396+11.96	60.62 LT	366334.82	583978.18	697.47
313	396+10.31	61.75 LT	366336.12	583976.65	697.39
314	396+09.92	62.06 LT	366336.48	583976.30	697.89
315	395+86.67	58.92 LT	366336.03	583952.86	698.12
316	395+86.69	53.92 LT	366330.96	583952.32	698.07
317	395+91.67	58.94 LT	366335.47	583957.83	698.03
318	395+91.69	53.94 LT	366330.43	583957.29	697.98
319	395+97.67	58.97 LT	366334.81	583963.79	697.62
320	395+97.69	53.97 LT	366329.79	583963.25	697.56
363	395+71.69	53.97 LT	366332.68	583937.41	698.89
364	395+71.67	59.01 LT	366337.68	583937.95	699.14
496	395+97.70	51.76 LT	366326.83	583960.15	697.88
497	395+97.70	51.76 LT	366326.34	583960.26	697.76
498	395+97.70	51.76 LT	366324.39	583960.68	697.67
499	395+97.70	51.76 LT	366341.09	583979.52	697.70
500	395+97.70	51.76 LT	366340.84	583979.96	697.55
501	395+97.70	51.76 LT	366339.86	583981.70	697.43
510	395+86.67	58.92 LT	366336.58	583947.89	698.46
511	395+86.69	53.92 LT	366331.49	583947.34	698.33
512	395+86.67	58.92 LT	366337.13	583942.90	698.80
513	395+86.69	53.92 LT	366332.03	583942.37	698.60

NW RADIAL WARNING FIELD			
BACK OF CURB RADIUS (FT)	LANDING LENGTH (FT)	AREA (SF)	RADIAL LONG CHORD (FT)
29.3	9.9	16.3	7.7

NE RADIAL WARNING FIELD			
BACK OF CURB RADIUS (FT)	LANDING LENGTH (FT)	AREA (SF)	RADIAL LONG CHORD (FT)
23.2	9.3	15.7	7.4

STATION & OFFSET TABLE					
PT #	STA	OFFSET	Y	X	ELE
321	396+46.29	60.83 LT	366331.22	584012.31	697.29
322	396+47.96	61.93 LT	366332.13	584014.10	697.21
323	396+48.38	62.21 LT	366332.36	584014.54	697.71
324	396+48.74	57.59 LT	366327.73	584014.39	697.22
325	396+50.26	58.89 LT	366328.86	584016.04	697.14
326	396+50.64	59.22 LT	366329.14	584016.45	697.16
327	396+54.72	52.19 LT	366321.70	584019.74	697.09
328	396+55.87	53.83 LT	366323.21	584021.05	697.05
329	396+56.15	54.24 LT	366323.58	584021.38	697.07
330	396+58.84	49.76 LT	366319.69	584022.29	696.99
331	396+59.72	51.56 LT	366321.32	584023.45	696.91
332	396+59.95	52.01 LT	366321.73	584023.74	697.41
333	396+59.91	59.26 LT	366328.15	584025.68	697.18
334	396+59.94	54.26 LT	366323.18	584025.15	697.09
335	396+65.91	59.29 LT	366327.51	584031.64	697.32
336	396+65.94	54.29 LT	366322.54	584031.11	697.27
337	396+70.91	59.31 LT	366326.98	584036.62	697.37
338	396+70.94	54.31 LT	366322.01	584036.08	697.30
357	396+53.34	59.23 LT	366328.85	584019.14	697.17
502	395+97.70	51.76 LT	366338.22	584009.72	697.36
503	395+97.70	51.76 LT	366338.69	584011.66	697.41
504	395+97.70	51.76 LT	366338.81	584012.15	697.54
505	395+97.70	51.76 LT	366318.42	584024.22	696.89
506	395+97.70	51.76 LT	366320.13	584025.25	697.09
507	395+97.70	51.76 LT	366320.56	584025.51	697.31

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	CURB RAMP DETAILS	SHEET 56	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\021201-CR.DWG
LAYOUT NAME - CR9
PLOT DATE : 10/31/2024 12:35 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

N SWAN RD

EXISTING R/W

PROPOSED R/W

EXISTING R/W

MATCH LINE 316+75

746.84 748.37 749.78 750.82 751.82 752.82 753.74 754.65 755.52 756.39 757.27 758.17 759.02 759.65 760.27 760.92

746.76 748.30 749.71 750.75 751.75 752.75 753.66 754.57 755.45 756.32 757.19 758.10 758.95 759.57 760.18 760.85

311 312 313 314 315 316

STH 167/MEQUON RD

ALUM. MON.
STA 312+19.59
X = 575584.185
Y = 366273.908

EXISTING R/W

763.80 763.89 763.56

761.57 761.97 762.38 763.28 763.09 763.29 763.51 763.72 764.00 764.15 764.29 764.44 764.42 764.40 764.35 764.29 764.14 763.99 763.81

761.50 761.90 762.31 763.21 763.01 763.22 763.43 763.65 763.92 764.07 764.22 764.36 764.34 764.32 764.27 764.22 764.07 763.92 763.74

763.73 763.81 763.49

317 318 319 320 321

STH 167/MEQUON RD

EXISTING R/W

MATCH LINE 316+75

MATCH LINE 322+00

NOTES:

1) GRADES PROVIDED AT FRONT AND BACK OF SIDEWALK AT 25-FOOT INTERVAL AND AT DRIVEWAY EDGES.

2) SEE CURB RAMP DETAILS FOR ADDITIONAL INFORMATION.

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PAVING GRADES - SIDEWALKS	SHEET 57	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\021221-PG.DWG
LAYOUT NAME - PG1

PLOT DATE : 10/31/2024 12:35 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

EXISTING R/W

763.31 763.06 762.76 762.46 762.21 762.03 761.86 761.69 761.50 761.33 761.25

763.24 762.99 762.69 762.39 762.13 761.96 761.78 761.60 761.43 761.25 761.17

761.11 760.97 761.05 761.20 761.53 761.63 761.79 762.04 762.23 762.40 762.58 762.74 762.82 762.91

761.45 761.55 761.71 761.96 762.15 762.33 762.50 762.66 762.75 762.84

760.97 761.12 760.89 761.03

STH 167/MEQUON RD

322 323 324 325 326 327

MATCH LINE 322+00

EXISTING R/W

INL SIGN SIGN INL SIGN

N BRIGHTON PL

MATCH LINE 327+75

N

763.00 763.09 763.18 763.72 763.29 763.33 763.32 763.23 763.15 763.06 762.94 762.83 762.72 762.64

762.92 763.01 763.10 763.65 763.22 763.25 763.24 763.16 763.07 762.98 762.87 762.76

761.94 762.46 762.39 761.89

761.84 762.23 762.15 762.07 761.99 761.91 761.82 761.75 761.66 761.58 761.33 761.41 760.77 760.84

761.79

328 329 330 331 332 333

STH 167/MEQUON RD

INL INL

RIPRAP

EXISTING R/W

MATCH LINE 333+25

NOTES:

1) GRADES PROVIDED AT FRONT AND BACK OF SIDEWALK AT 25-FOOT INTERVAL AND AT DRIVEWAY EDGES.

2) SEE CURB RAMP DETAILS FOR ADDITIONAL INFORMATION.

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PAVING GRADES - SIDEWALKS	SHEET 58	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\021221-PG.DWG
LAYOUT NAME - PG2

PLOT DATE : 10/31/2024 12:35 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

2

EXISTING R/W

760.54 760.90 760.94 760.89 760.84 760.79

760.61 760.98 760.86 760.82 760.77 760.72

N MEADOWBROOK DR

SIGN

761.13 761.68 762.05 762.41 762.83 763.29 763.74 764.20 764.66 765.12 765.58

761.05 761.61 761.97 762.34 762.75 763.20 763.67 764.13 764.59 765.04 765.50

766.03

765.96

MATCH LINE 338+75

334 335 336 337 338

STH 167/MEQUON RD

MH INL

MATCH LINE 333+25

N WHILTON RD

SIGN

EXISTING R/W

POST

09 21 21 N

28 28 E

21 S

ALUM. MON.
STA 338+61.45
X = 578225.975
Y = 366292.536

N

EXISTING R/W

766.49 766.95 767.41 767.85 768.28 768.71 769.14 769.57 770.00 770.43 770.86 771.29 771.73 772.16 772.59 773.04 773.52 774.00 774.39 774.74 775.08 775.42

766.42 766.87 767.33 767.78 768.21 768.64 769.07 769.50 769.93 770.36 770.79 771.22 771.65 772.08 772.51 772.97 773.45 773.93 774.32 774.66 775.00 775.35

775.69

775.61

MATCH LINE 344+50

MATCH LINE 338+75

STH 167/MEQUON RD

339 340 341 342 343 344

MH INL

POST

SIGN

EXISTING R/W

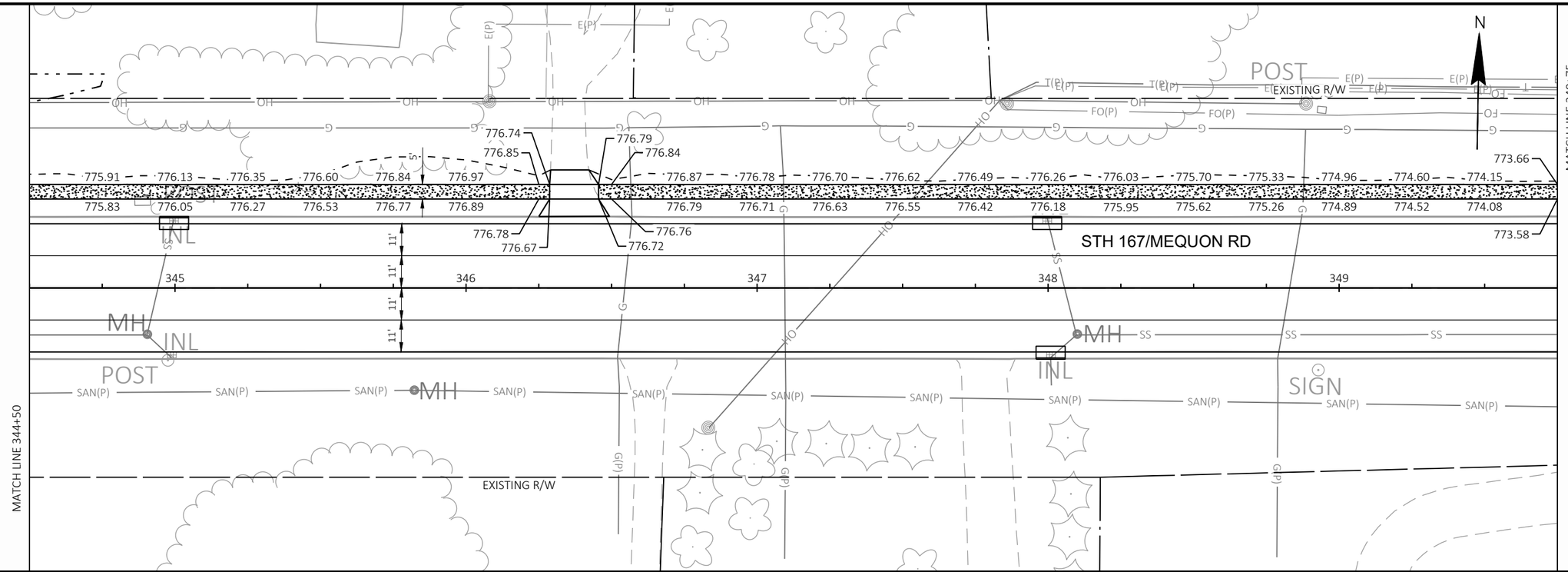
NOTES:

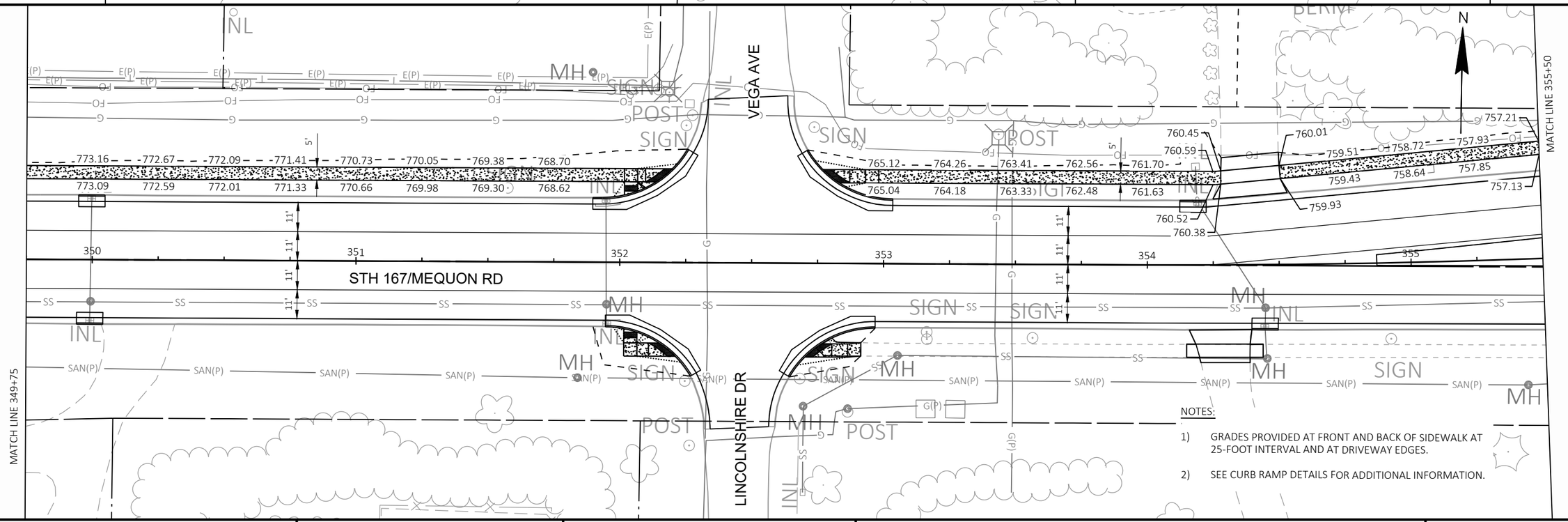
1) GRADES PROVIDED AT FRONT AND BACK OF SIDEWALK AT 25-FOOT INTERVAL AND AT DRIVEWAY EDGES.

2) SEE CURB RAMP DETAILS FOR ADDITIONAL INFORMATION.

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PAVING GRADES - SIDEWALKS	SHEET 59	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\021221-PG.DWG
LAYOUT NAME - PG3
PLOT DATE : 10/31/2024 12:36 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44



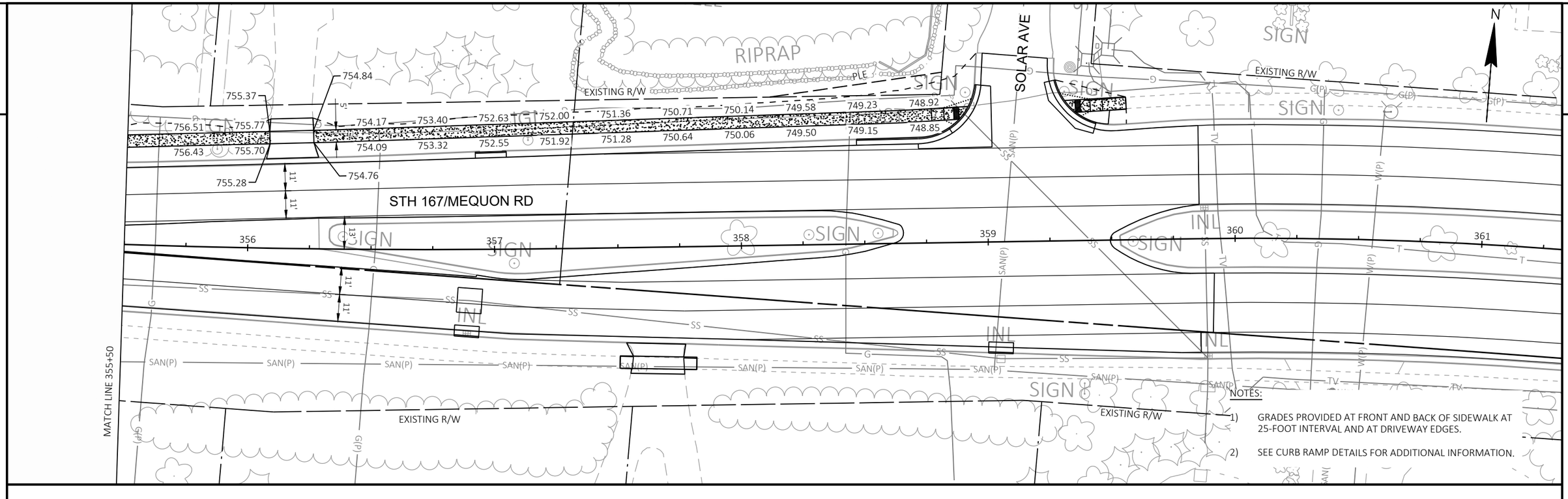


NOTES:

1) GRADES PROVIDED AT FRONT AND BACK OF SIDEWALK AT 25-FOOT INTERVAL AND AT DRIVEWAY EDGES.

2) SEE CURB RAMP DETAILS FOR ADDITIONAL INFORMATION.

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PAVING GRADES - SIDEWALKS	SHEET 60	E



NOTES:

1) GRADES PROVIDED AT FRONT AND BACK OF SIDEWALK AT 25-FOOT INTERVAL AND AT DRIVEWAY EDGES.

2) SEE CURB RAMP DETAILS FOR ADDITIONAL INFORMATION.

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PAVING GRADES - SIDEWALKS	SHEET 61	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\021221-PG.DWG
LAYOUT NAME - PG5
PLOT DATE : 10/31/2024 12:36 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

CLEANING INLET
STA 204+54.01, -117.23' L

CLEANING INLET
STA 204+11.79, -79.17' L

CLEANING INLET
STA 204+06.74, -55.79' L

CLEANING INLET
STA 203+98.08, -27.73' L

CLEANING INLET
STA 203+98.17, -22.09' L

CLEANING INLET
STA 202+26.00, -28.63' L

CLEANING INLET
STA 202+25.98, -22.76' L

BEGIN PROJECT
STA 199+89.00

CLEANING INLET
STA 202+25.35, 29.06' R

MATCH LINE 199+25

N WASAUKEE RD

WETLAND BOUNDARY (TYP)

CLEANING INLET
STA 207+65.18, -8.22' L

CLEANING INLET
STA 207+65.22, -2.05' L

RECONSTRUCTING INLET
STA 211+09.48, -28.18' L

EXISTING R/W

STH 167/MEQUON RD

MATCH LINE 214+00

LEGEND

- SLOPE INTERCEPT
- EROSION MAT URBAN CLASS I TYPE A
- EROSION MAT URBAN CLASS I TYPE B
- INLET PROTECTION W/ TYPE
- CULVERT PIPE CHECK
- SILT FENCE

EXISTING 48" CMCP
REFER TO SPECIFICATIONS
FOR EROSION CONTROL BEST
MANAGEMENT PRACTICES FOR
CULVERT PIPE REPLACEMENT

R/L STH 167

UNNAMED INTERMITTENT STREAM (WBIC 18450)

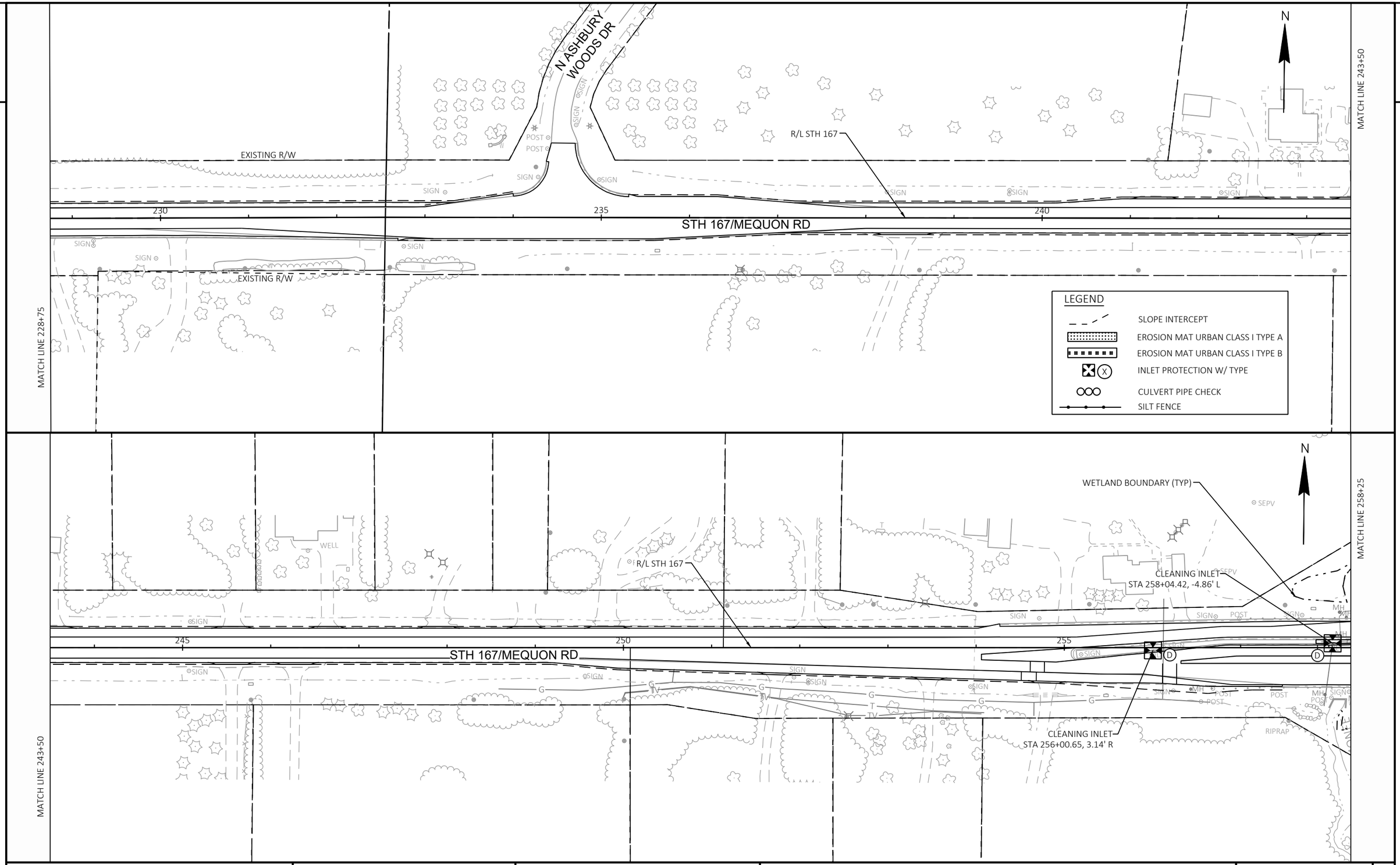
WETLAND BOUNDARY (TYP)

MATCH LINE 214+00

MATCH LINE 228+75

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	EROSION CONTROL AND STORM SEWER	SHEET 62	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\022001-EC.DWG
LAYOUT NAME - 01
PLOT DATE : 10/31/2024 12:36 PM
PLOT BY : KARIMULLAH HABIBUR
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44



PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	EROSION CONTROL AND STORM SEWER	SHEET 63	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\022001-EC.DWG
LAYOUT NAME - 02
PLOT DATE : 10/31/2024 12:37 PM
PLOT BY : KARIMULLAH HABIBUR
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

2

WETLAND BOUNDARY (TYP)

ADJUSTING INLET
STA 258+49.87, -5.36' L

CLEANING INLET
STA 259+75.06, -40.46' L

RECONSTRUCTING INLET
STA 259+71.65, 16.89' R

CLEANING MANHOLE
STA 261+99.86, -45.06' L

CLEANING INLET
STA 259+98.89, 11.38' R

CLEANING INLET
STA 261+99.87, 10.82' R

R/L STH 167

GRANVILLE RD

CREEK

STH 167/MEQUON RD

CLEANING INLET
STA 259+99.02, 15.98' R

CLEANING MANHOLE
STA 259+73.56, 35.30' R

RECONSTRUCTING INLET
STA 259+75.86, 65.21' R

ADJUSTING INLET
STA 259+43.27, 99.52' R

CLEANING INLET
STA 261+99.64, 15.28' R

ADJUSTING MANHOLE
STA 262+00.71, 35.71' R

CLEANING INLET
STA 262+00.31, 43.55' R

SUTTON RIDGE DR

MATCH LINE 258+25

MATCH LINE 273+00

MATCH LINE 273+00

MATCH LINE 287+75

N FARMDALE RD

R/L STH 167

STH 167/MEQUON RD

SLAB

LEGEND

- SLOPE INTERCEPT
- EROSION MAT URBAN CLASS I TYPE A
- EROSION MAT URBAN CLASS I TYPE B
- INLET PROTECTION W/ TYPE
- CULVERT PIPE CHECK
- SILT FENCE

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	EROSION CONTROL AND STORM SEWER	SHEET 64	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\022001-EC.DWG
LAYOUT NAME - 03

PLOT DATE : 10/31/2024 12:37 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

2

MATCH LINE 287+75

WETLAND BOUNDARY (TYP)

R/L STH 167

290

295

300

STH 167/MEQUON RD

SIGN

POST

RIPRAP

CREEK

SOLAR PANEL

LITTLE MENOMONEE

MATCH LINE 302+50

2

N

LEGEND

- SLOPE INTERCEPT
- EROSION MAT URBAN CLASS I TYPE A
- EROSION MAT URBAN CLASS I TYPE B
- INLET PROTECTION W/ TYPE
- CULVERT PIPE CHECK
- SILT FENCE

MATCH LINE 302+50

WETLAND BOUNDARY (TYP)

R/L STH 167

305

310

315

STH 167/MEQUON RD

RECONSTRUCTING INLET
STA 312+98.46, -26.09' L

CLEANING MANHOLE
STA 312+62.64, 17.00' R

N SWAN RD

MH

POST

SIGN

OH

SS

U/C

RECONSTRUCTING MANHOLE
STA 312+10.90, 47.37' R

SLOPE INTERCEPT (TYP)

RECONSTRUCTING INLET
STA 314+67.18, -25.96' L

RECONSTRUCTING INLET
STA 316+45.72, -24.00' L

EXISTING R/W

CLEANING MANHOLE
STA 314+67.10, 15.79' R

CLEANING INLET
STA 314+67.15, 23.83' R

CLEANING MANHOLE
STA 316+45.68, 16.00' R

CLEANING INLET
STA 316+46.08, 23.93' R

WALLS

RUINS

WELL

MATCH LINE 317+25

N

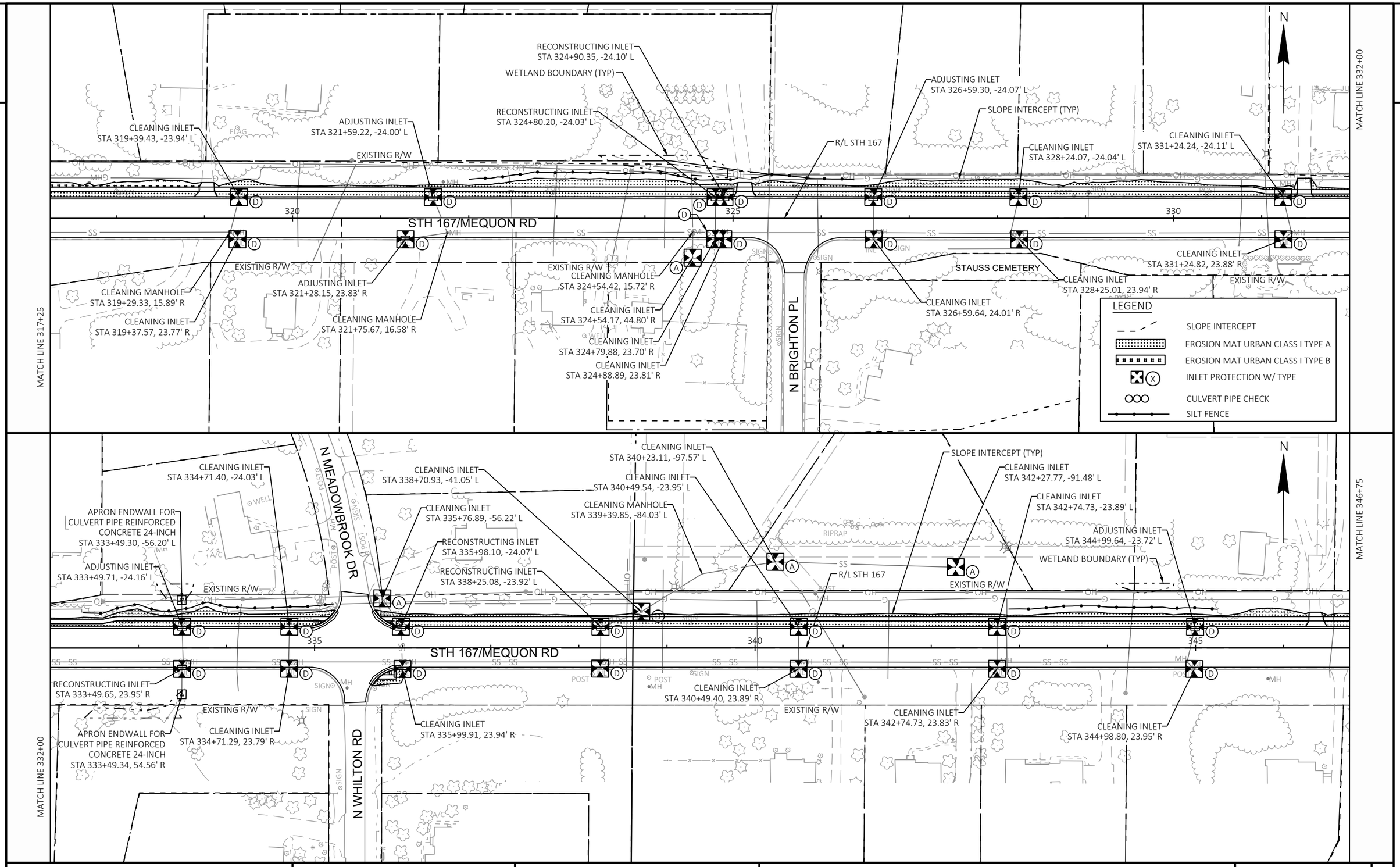
Compiled By: GPI Greenman-Pederson, Inc.
Date: 08-03-2022

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	EROSION CONTROL AND STORM SEWER	SHEET 65	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\022001-EC.DWG
LAYOUT NAME - 04

PLOT DATE : 10/31/2024 12:37 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	EROSION CONTROL AND STORM SEWER	SHEET 66	E

2

2

N

MATCH LINE 361+50.01

MATCH LINE 346+75

CLEANING INLET
STA 352+26.47, -60.11' L

CLEANING MANHOLE
STA 351+89.74, -71.80' L

ADJUSTING INLET
STA 349+99.75, -23.99' L

ADJUSTING INLET
STA 351+94.65, -24.06' L

SLOPE INTERCEPT (TYP)

ADJUSTING INLET
STA 347+99.64, -23.92' L

VEGA AVE

REPLACE INLET,
SEE STORM SEWER DETAIL

RECONSTRUCTING INLET
STA 354+18.89, -24.03' L

R/L STH 167

SEE STORM SEWER DETAIL

SLOPE INTERCEPT (TYP)

SOLAR AVE

EXISTING R/W

STH 167/MEQUON RD

CLEANING INLET
STA 351+95.15, 23.74' R

ADJUSTING INLET
STA 348+00.90, 23.86' R

ADJUSTING INLET
STA 349+99.13, 24.01' R

RECONSTRUCTING INLET
STA 354+44.47, 24.04' R

ADJUSTING MANHOLE
STA 356+89.77, 20.72' R

RECONSTRUCTING INLET
STA 356+88.47, 34.49' R

RECONSTRUCTING INLET
STA 359+04.33, 47.33' R

LINCOLNSHIRE DR

CLEANING INLET
STA 352+69.66, 86.85' R

LEGEND

- SLOPE INTERCEPT
- EROSION MAT URBAN CLASS I TYPE A
- EROSION MAT URBAN CLASS I TYPE B
- INLET PROTECTION W/ TYPE
- CULVERT PIPE CHECK
- SILT FENCE

STH 181/
N WAUWATOSA RD

MATCH LINE 361+50.01

MATCH LINE 376+25.01

R/L STH 167

EXISTING R/W

STH 167/MEQUON RD

EXISTING R/W

RECONSTRUCTING INLET
STA 374+42.92, 48.24' R

CLEANING INLET
STA 374+42.92, 70.48' R

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	EROSION CONTROL AND STORM SEWER	SHEET 67	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\022001-EC.DWG
LAYOUT NAME - 06

PLOT DATE : 10/31/2024 12:37 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

2

MATCH LINE 376+25.01

MATCH LINE 391+00.01

CLEANING INLET
STA 381+45.00, -5.50' L

RECONSTRUCTING INLET
STA 376+78.69, -48.04' L

CLEANING INLET
STA 380+53.55, -47.82' L

CLEANING INLET
STA 376+78.31, -11.93' L

RECONSTRUCTING INLET
STA 380+54.03, -11.65' L

EXISTING R/W

CLEANING INLET
STA 376+78.38, 0.23' R

CLEANING INLET
STA 380+54.15, -5.51' L

380

STH 167/MEQUON RD

ADJUSTING INLET
STA 380+53.68, 48.20' R

EXISTING R/W

CLEANING INLET
STA 380+53.56, 65.56' R

RECONSTRUCTING INLET
STA 376+78.27, 48.20' R

CONCORD CREEK

MEQUON TRAIL

ADJUSTING INLET
STA 385+08.92, -11.77' L

CLEANING INLET
STA 384+36.67, -48.09' L

RECONSTRUCTING INLET
STA 383+89.42, 48.09' R

CLEANING INLET
STA 383+90.61, 70.53' R

385

CLEANING INLET
STA 385+09.19, -0.21' L

R/L STH 167

R/EXISTING R/W

CLEANING INLET
STA 388+28.87, -11.92' L

CLEANING INLET
STA 389+03.41, -47.94' L

390

EXISTING R/W

CLEANING INLET
STA 388+29.03, 11.83' R

ADJUSTING INLET
STA 388+28.38, 48.01' R

N

LEGEND

- SLOPE INTERCEPT
- EROSION MAT URBAN CLASS I TYPE A
- EROSION MAT URBAN CLASS I TYPE B
- INLET PROTECTION W/ TYPE
- CULVERT PIPE CHECK
- SILT FENCE

MATCH LINE 391+00.01

R/L STH 167

EXISTING R/W

RIVER BIRCH RD

395

STH 167/MEQUON RD

CLEANING MANHOLE
STA 395+09.11, 63.10' R

CLEANING MANHOLE
STA 395+94.11, 61.79' R

RECONSTRUCTING INLET
STA 396+03.34, 48.20' R

EXISTING R/W

RECONSTRUCTING INLET
STA 400+03.22, 5.70' R

CLEANING INLET
STA 400+03.09, 48.06' R

EXISTING R/W

END PROJECT
STA 401+75.00

N

MATCH LINE 405+75.01

EXISTING R/W

405

EXISTING R/W

BUNTROCK AVE

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	EROSION CONTROL AND STORM SEWER	SHEET 68	E

2

EXISTING R/W

WETLAND BOUNDARY (TYP)

R/L STH 167

EXISTING 48" CMCP
REFER TO SPECIFICATIONS
FOR EROSION CONTROL BEST
MANAGEMENT PRACTICES FOR
CULVERT PIPE REPLACEMENT

101

SLOPE INTERCEPT (TYP)

EXISTING R/W

N

2

SIGN

SIGN

217+00

218+00

219+00

220+00

STH 167

221+00

222+00

223+00

224+00

4.74%

SIGN

RIPRAP

SIGN

RIPRAP

102

EXISTING R/W

WETLAND BOUNDARY (TYP)

EXISTING R/W

RIPRAP

FLAG

UNNAMED INTERMITTENT STREAM (WBIC 18450)

DAM

T

101

102

RIM 804.06
54" IE 799.10 (S)

RIM 802.80
54" IE 797.84 (N)

805

805

COARSE AGGREGATE MIX FOR STREAM BED

8" EMBEDMENT

800

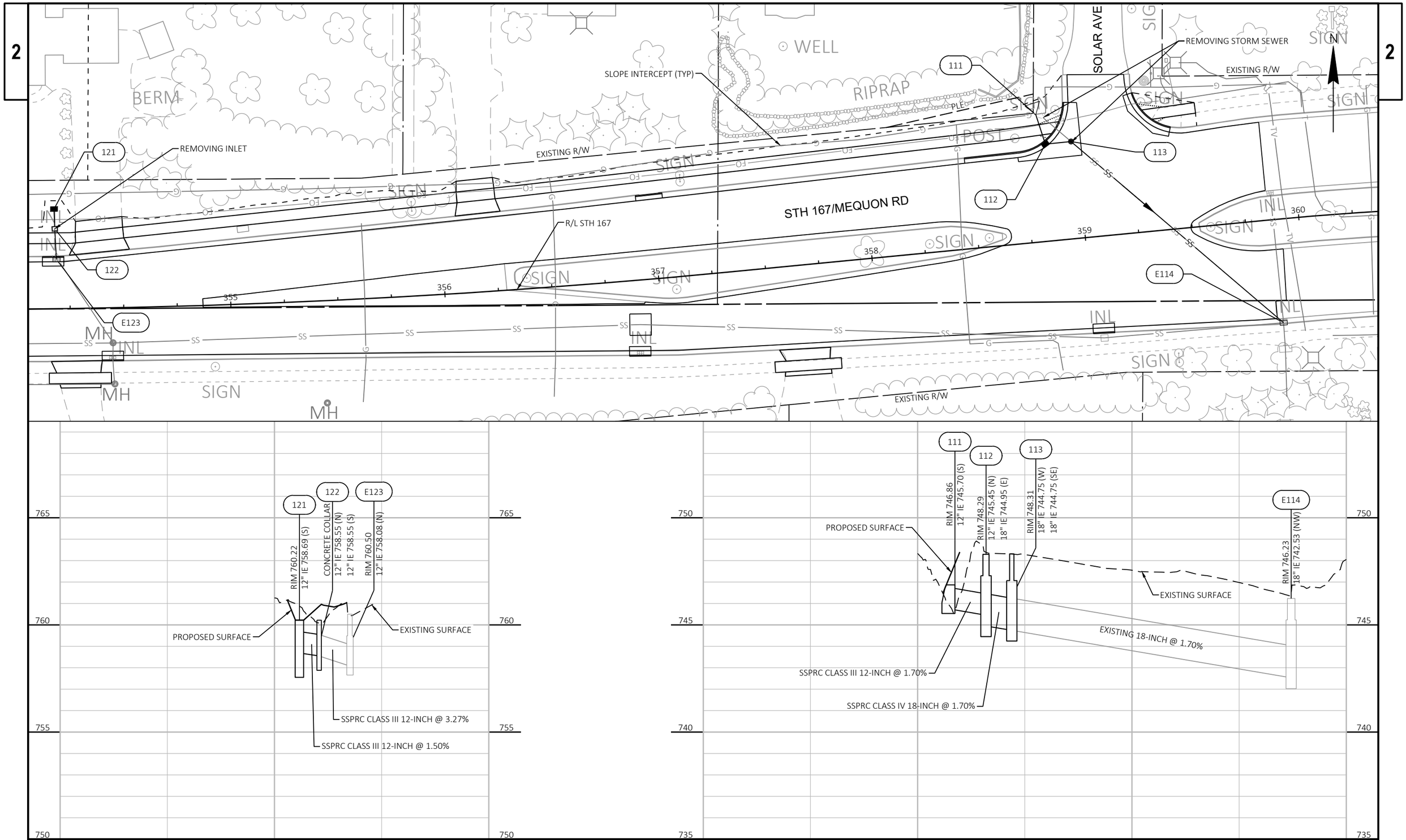
800

CPRC CLASS III 54-INCH @ 1.74%

797

797

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	CULVERT PIPE PLAN	SHEET 69	E



PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	STORM SEWER DETAIL	SHEET 70	E

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- PROPOSED SIGN MOUNTED ON WOOD OR TUBULAR STEEL POST(S)
- PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- ##-## DENOTES SIGN NUMBER
- (X) SIZE CODE
- ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED

1-15 DIVIDED HIGHWAY R6-3(2M) MOUNT ON SIGNAL POLE

1-03 STOP R1-1F(2M) MOVING SIGNS TYPE II MOUNT ON SIGNAL POLE

1-02 ONE WAY R6-2L(2M) MOVING SIGNS TYPE II MOUNT ON SIGNAL POLE

1-01 Wasaukee Rd M1-94H (3) MOVING SIGNS TYPE II MOUNT ON SIGNAL ARM

1-04 Mequon Rd M1-94H (3) MOVING SIGNS TYPE II MOUNT ON SIGNAL ARM

1-05 STOP R1-1F (3) MOVING SIGNS TYPE II MOUNT ON SIGNAL POLE

1-17 DO NOT ENTER R5-1 (3) MOVING SIGNS TYPE II MOUNT ON SIGNAL POLE

1-08 R4-7 (3) 36"X48" MOVING SIGNS TYPE II MOUNT ON SIGNAL POLE

1-18 DO NOT ENTER R5-1 (3) MOVING SIGNS TYPE II MOUNT ON SIGNAL POLE

1-06 / 1-07 STOP R1-1F (3) MOVING SIGNS TYPE II MOUNT ON SIGNAL POLE

1-09 Mequon Rd M1-94H (3) MOVING SIGNS TYPE II MOUNT ON SIGNAL ARM

1-13 R4-7 (3) MOVING SIGNS TYPE II MOUNT ON SIGNAL POLE

1-14 STOP R1-1F (3) MOVING SIGNS TYPE II MOUNT ON SIGNAL POLE

1-12 Wasaukee Rd M1-94H (3) MOVING SIGNS TYPE II MOUNT ON SIGNAL ARM

1-11 ONE WAY R6-2L(2M) MOVING SIGNS TYPE II MOUNT ON SIGNAL POLE

1-16 DIVIDED HIGHWAY R6-3(2M) MOUNT ON SIGNAL POLE

1-10 STOP R1-1F (2M) MOVING SIGNS TYPE II MOUNT ON SIGNAL POLE

NOTES:
TYPE II ALUMINUM SIGNS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE COUNTY SIGN SHOP. CONTACT THE FOLLOWING INDIVIDUAL AT THE SIGN SHOP FOR DISTRIBUTION COUNTY LOCATION.

SIGNING COORDINATOR	COUNTIES	PHONE#
BREE JOHNS-KONKEL	MILWAUKEE, WASHINGTON, OZAUKEE, RACINE	414-266-1171
CHUCK SALDIVAR	WALWORTH, WAUKESHA, KENOSHA	414-750-1682

SIGNS SHALL BE CAREFULLY REMOVED FROM SIGN SUPPORTS. THE SIGNS SHALL BE PALLETIZED FOR HANDLING WITH A FORKLIFT (SEE STANDARD SPEC 638.3.4). THE REGIONAL SIGN SHOP (414-266-1165) SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF THE SIGNS.

WHEN AN EXISTING STOP SIGN SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED, THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POST SIZES FOR TYPE II SIGNS ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

STREET NAMES SIGNS ARE PROPERTY OF THE MUNICIPALITY (CITY, VILLAGE OR TOWN). THE MUNICIPALITY SHALL BE CONTACTED TO REMOVE THEIR STREET NAME SIGNS PRIOR TO CONSTRUCTION AND IT IS THEIR RESPONSIBILITY TO REINSTALL THE OLD SIGNS OR REPLACE THEM FOLLOWING CONSTRUCTION. WISDOT DOES NOT FURNISH OR INSTALL STREET NAME SIGNS. THE STREET NAME SIGNS SHALL NOT BE PLACED ON TOP OF THE STOP SIGNS.

STH 167/MEQUON RD

WASAUKEE RD

STH 167 R/L

MATCH LINE 202+00

MATCH LINE 208+00

SHEET 1 OF 24

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 71	E

FILE NAME : \\RASMITH.COM\BROOKFIELD\TRANSPORTATION\1222714.07\CIVIL3D\13800200\SHEETS\023201-PS.DWG
LAYOUT NAME - 01
PLOT DATE : 8/1/2024 1:52 PM PLOT BY : JOHNSON, BRENDEN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT

PROPOSED SIGN MOUNTED ON WOOD OR TUBULAR STEEL POST(S)

PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT

##-## DENOTES SIGN NUMBER

(X) SIZE CODE

ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED

N

NO PROPOSED SIGNS ON THIS SHEET

RIPRAP

SIGN

SIGN

RIPRAP

POST

INL

STH 167/MEQUON RD

SIGN

MATCH LINE 208+00

210

INL

STH 167 R/L

MATCH LINE 214+00

SIGN

SIGN

SIGN

SIGN

SIGN

SIGN

IPRAP

RIPRAP

SHEET 2 OF 24

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 72	E

FILE NAME : \\RASMITH.COM\BROOKFIELD\TRANSPORTATION\1222714.07\CIVIL3D\13800200\SHEETS\023201-PS.DWG
LAYOUT NAME - 02

PLOT DATE : 8/1/2024 1:52 PM PLOT BY : JOHNSON, BRENDEN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT

PROPOSED SIGN MOUNTED ON WOOD OR TUBULAR STEEL POST(S)

PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT

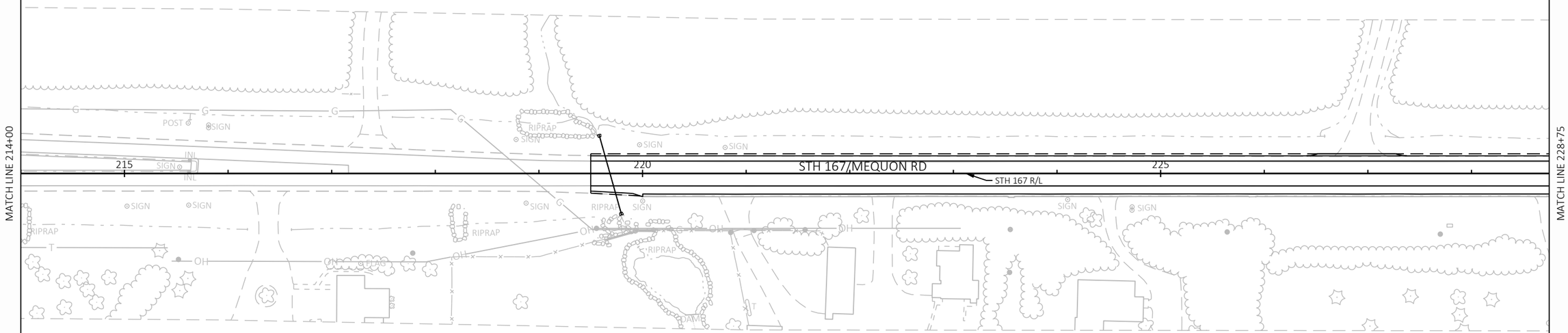
##-## DENOTES SIGN NUMBER

(X) SIZE CODE

ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED

N

NO PROPOSED SIGNS ON THIS SHEET



SHEET 3 OF 24

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 73	E

FILE NAME : \\RASMITH.COM\BROOKFIELD\TRANSPORTATION\1222714.07\CIVIL3D\13800200\SHEETS\023201-PS.DWG
LAYOUT NAME - 03

PLOT DATE : 8/1/2024 1:52 PM PLOT BY : JOHNSON, BRENDEN PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT

PROPOSED SIGN MOUNTED ON WOOD OR TUBULAR STEEL POST(S)

PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT

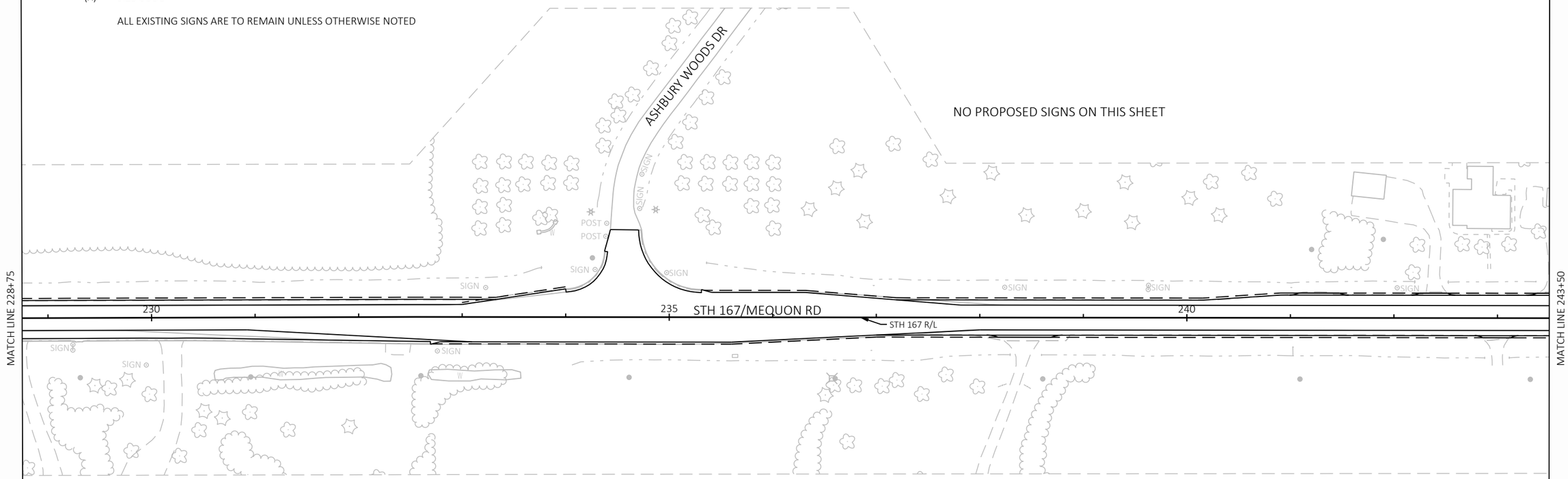
##-## DENOTES SIGN NUMBER

(X) SIZE CODE

ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED

N

NO PROPOSED SIGNS ON THIS SHEET



2

SHEET 4 OF 24

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 74	E

FILE NAME : \\RASMITH.COM\BROOKFIELD\TRANSPORTATION\1222714.07\CIVIL3D\13800200\SHEETS\023201-PS.DWG
LAYOUT NAME - 04

PLOT DATE : 8/1/2024 1:52 PM PLOT BY : JOHNSON, BRENDEN PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT

PROPOSED SIGN MOUNTED ON WOOD OR TUBULAR STEEL POST(S)

PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT

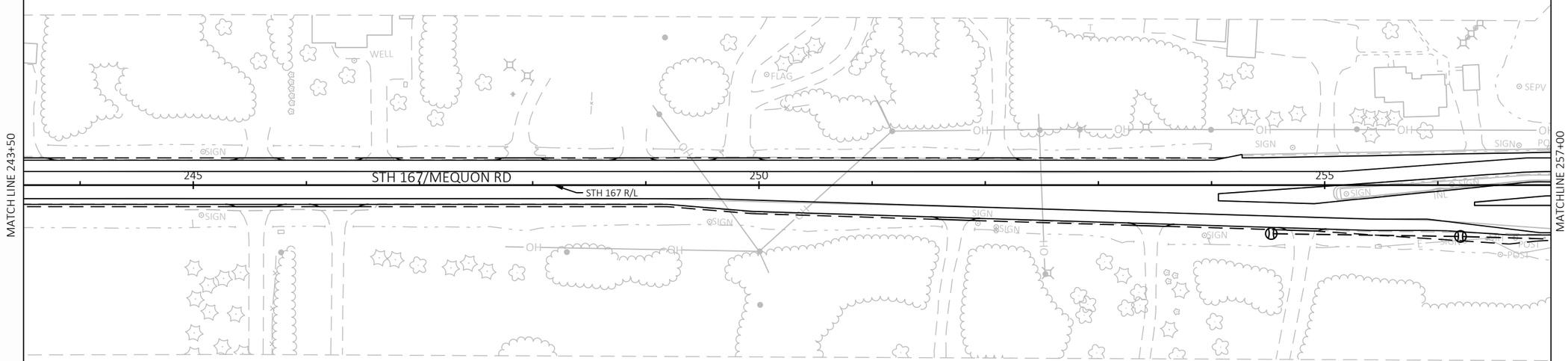
##-## DENOTES SIGN NUMBER

(X) SIZE CODE

ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED

N

NO PROPOSED SIGNS ON THIS SHEET



SHEET 5 OF 24

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 75	E

FILE NAME : \\RASMITH.COM\BROOKFIELD\TRANSPORTATION\1222714.07\CIVIL3D\13800200\SHEETS\023201-PS.DWG
LAYOUT NAME - 05

PLOT DATE : 8/1/2024 1:52 PM PLOT BY : JOHNSON, BRENDEN PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- PROPOSED SIGN MOUNTED ON WOOD OR TUBULAR STEEL POST(S)
- PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- ##-## DENOTES SIGN NUMBER
- (X) SIZE CODE
- ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED

N

6-03 Granville Rd M1-94H (3) MOVING SIGNS TYPE II MOUNT ON SIGNAL ARM

6-15 DIVIDED HIGHWAY R6-3(2M) MOUNT ON SIGNAL POLE

6-04 STOP R1-1F (3) MOVING SIGNS TYPE II MOUNT ON SIGNAL POLE

6-02 R4-7 (3) MOVING SIGNS TYPE II MOUNT ON SIGNAL POLE

6-17 ONE WAY R6-2L (3) MOVING SIGNS TYPE II MOUNT ON SIGNAL POLE

6-01 STOP R1-1F (3) MOVING SIGNS TYPE II MOUNT ON SIGNAL POLE

6-05 Mequon Rd M1-94H (3) MOVING SIGNS TYPE II MOUNT ON SIGNAL ARM

6-06 DO NOT ENTER R5-1 (3) MOVING SIGNS TYPE II MOUNT ON SIGNAL POLE

6-07 6-08 STOP R1-1F (3) MOVING SIGNS TYPE II MOUNT ON SIGNAL POLE

N GRANVILLE RD

STH 167/MEQUON RD

30'

45'

260

STH 167 R/L

6-10 R4-7 (3) MOVING SIGNS TYPE II MOUNT ON SIGNAL POLE

6-19 DO NOT ENTER R5-1 (3) MOVING SIGNS TYPE II MOUNT ON SIGNAL POLE

6-14 Granville Rd M1-94H (3) MOVING SIGNS TYPE II MOUNT ON SIGNAL ARM

6-18 ONE WAY R6-2L (3) MOVING SIGNS TYPE II MOUNT ON SIGNAL POLE

6-09 STOP R1-1F (3) MOVING SIGNS TYPE II MOUNT ON SIGNAL POLE

6-16 DIVIDED HIGHWAY R6-3(2M) MOUNT ON SIGNAL POLE

6-13 (3) M3-4 (3) M1-6 WEST 167 (3) M6-1 J3-1 (3) MOVING SIGNS TYPE II

6-12 STOP R1-1F (3) MOVING SIGNS TYPE II MOUNT ON SIGNAL POLE

6-11 Mequon Rd M1-94H (3) MOVING SIGNS TYPE II MOUNT ON SIGNAL ARM

TO REMAIN

MATCH LINE 257+00

MATCH LINE 262+00

SHEET 6 OF 24

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 76	E

FILE NAME : \\RASMITH.COM\BROOKFIELD\TRANSPORTATION\1222714.07\CIVIL3D\13800200\SHEETS\023201-PS.DWG
LAYOUT NAME - 06

PLOT DATE : 8/1/2024 1:52 PM PLOT BY : JOHNSON, BRENDEN PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT

PROPOSED SIGN MOUNTED ON WOOD OR TUBULAR STEEL POST(S)

PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT

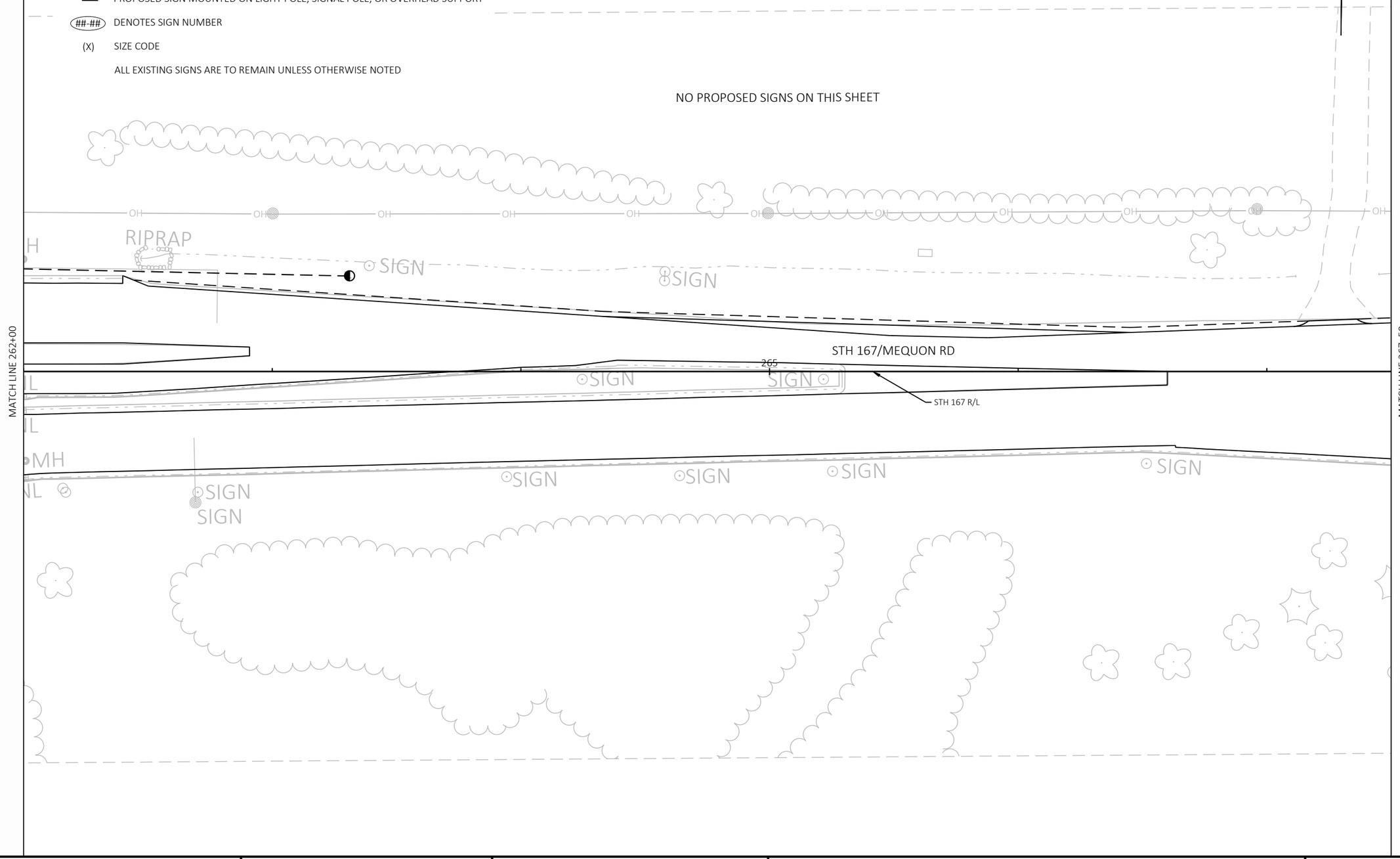
##-## DENOTES SIGN NUMBER

(X) SIZE CODE

ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED

NO PROPOSED SIGNS ON THIS SHEET

N



MATCH LINE 262+00

MATCH LINE 267+50

2

SHEET 7 OF 24

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 77	E

FILE NAME : \\RASMITH.COM\BROOKFIELD\TRANSPORTATION\1222714.07\CIVIL3D\13800200\SHEETS\023201-PS.DWG
LAYOUT NAME - 07

PLOT DATE : 8/1/2024 1:52 PM PLOT BY : JOHNSON, BRENDEN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT

PROPOSED SIGN MOUNTED ON WOOD OR TUBULAR STEEL POST(S)

PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT

##-## DENOTES SIGN NUMBER

(X) SIZE CODE

ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED

NO PROPOSED SIGNS ON THIS SHEET

N

OH

SIGN

STH 167/MEQUON RD

270

STH 167 R/L

MATCH LINE 267+50

MATCH LINE 273+00

SUTTON RIDGE DR

SIGN

POST

W

RIPRAP

SHEET 8 OF 24

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 78	E

FILE NAME : \\RASMITH.COM\BROOKFIELD\TRANSPORTATION\1222714.07\CIVIL3D\13800200\SHEETS\023201-PS.DWG
LAYOUT NAME - 08

PLOT DATE : 8/1/2024 1:52 PM PLOT BY : JOHNSON, BRENDEN PLOT NAME : PLOT SCALE : 1 IN:40 FT

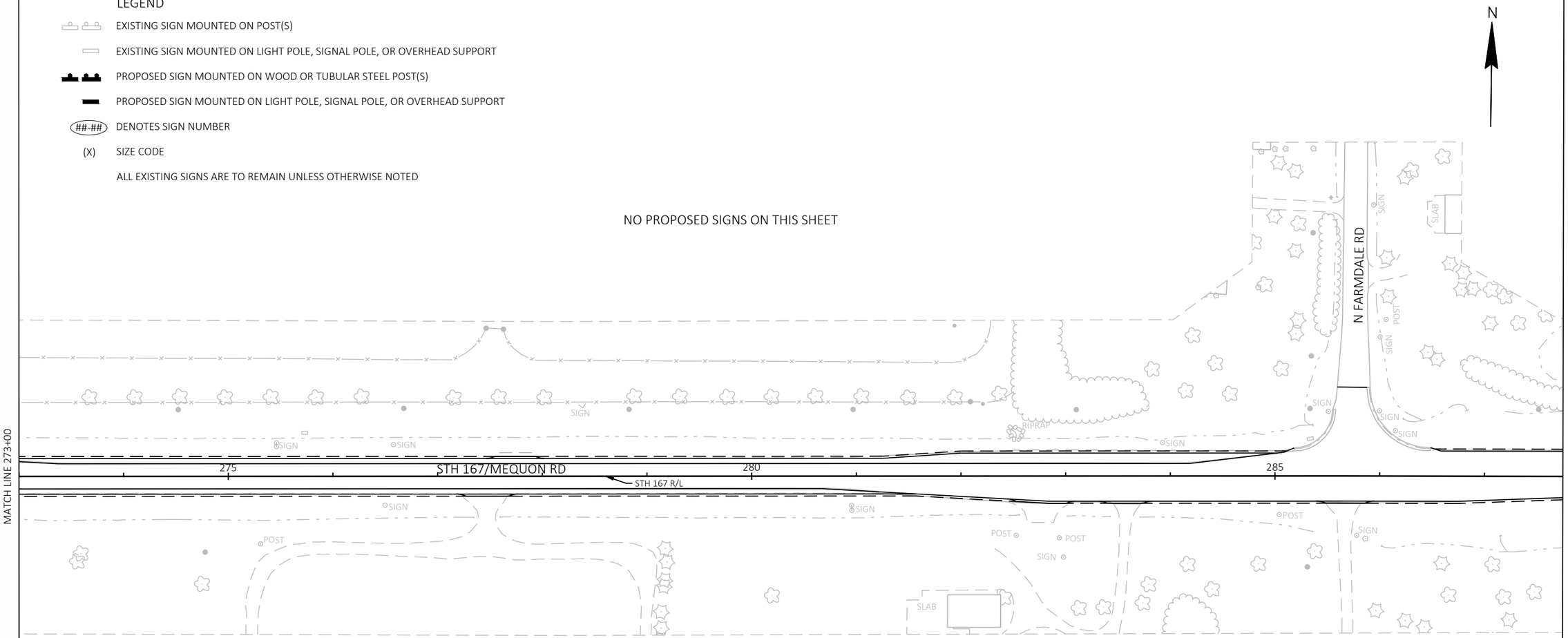
WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- PROPOSED SIGN MOUNTED ON WOOD OR TUBULAR STEEL POST(S)
- PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- ##-## DENOTES SIGN NUMBER
- (X) SIZE CODE
- ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED

NO PROPOSED SIGNS ON THIS SHEET



2

SHEET 9 OF 24

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 79	E

FILE NAME : \\RASMITH.COM\BROOKFIELD\TRANSPORTATION\1222714.07\CIVIL3D\13800200\SHEETS\023201-PS.DWG
LAYOUT NAME - 09

PLOT DATE : 8/1/2024 1:52 PM PLOT BY : JOHNSON, BRENDEN PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

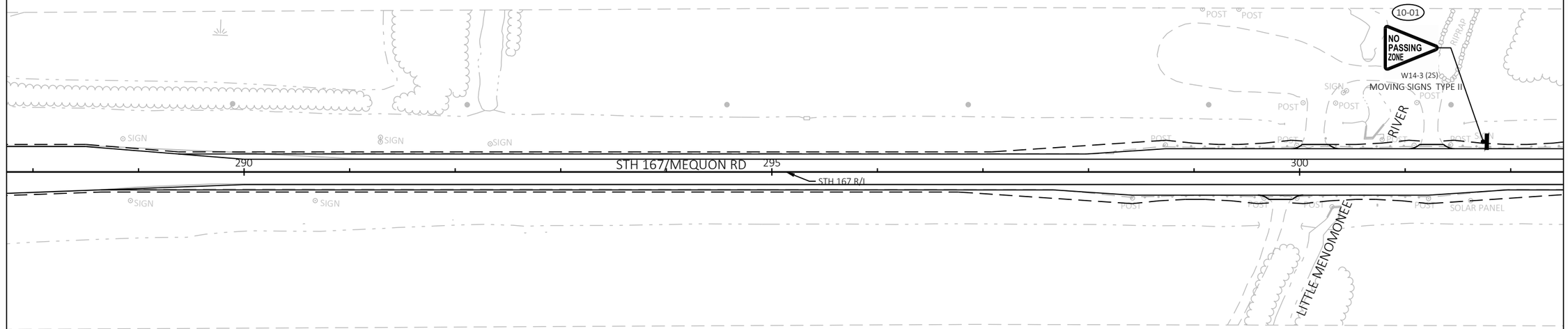
2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- PROPOSED SIGN MOUNTED ON WOOD OR TUBULAR STEEL POST(S)
- PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- ##-## DENOTES SIGN NUMBER
- (X) SIZE CODE
- ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED

N

PLACE W14-3 AT START OF NO PASSING ZONE



SHEET 10 OF 24

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 80	E

FILE NAME : \\RASMITH.COM\BROOKFIELD\TRANSPORTATION\1222714.07\CIVIL3D\13800200\SHEETS\023201-PS.DWG
LAYOUT NAME - 10

PLOT DATE : 8/1/2024 1:52 PM PLOT BY : JOHNSON, BRENDEN PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT

PROPOSED SIGN MOUNTED ON WOOD OR TUBULAR STEEL POST(S)

PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT

##-## DENOTES SIGN NUMBER

(X) SIZE CODE

ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED

N

11-01

SPEED LIMIT 45

R2-1 (3)

MOVING SIGNS TYPE II

11-02

SPEED LIMIT 45

R2-1 (3)

MOVING SIGNS TYPE II

MATCH LINE 302+50

MATCH LINE 317+25

STH 167/MEQUON RD

STH 167 B/I

305

310

315

N SWAN RD

N SWAN RD

U/C

RUINS

WELL

WALLS

SHEET 11 OF 24

2

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 81	E

FILE NAME : \\RASMITH.COM\BROOKFIELD\TRANSPORTATION\1222714.07\CIVIL3D\13800200\SHEETS\023201-PS.DWG
LAYOUT NAME - 11

PLOT DATE : 8/1/2024 1:53 PM PLOT BY : JOHNSON, BRENDEN PLOT NAME : PLOT SCALE : 1 IN:100 FT

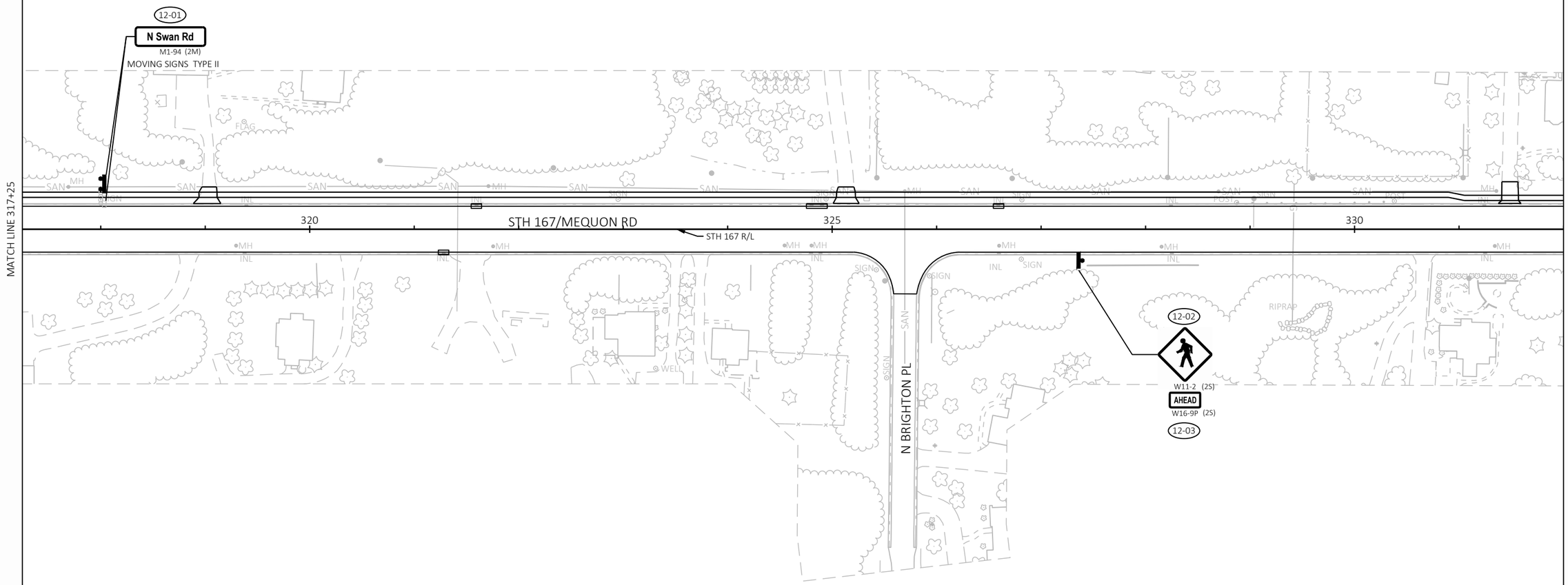
WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- PROPOSED SIGN MOUNTED ON WOOD OR TUBULAR STEEL POST(S)
- PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- ##-## DENOTES SIGN NUMBER
- (X) SIZE CODE
- ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED

N



SHEET 12 OF 24

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 82	E

FILE NAME : \\RASMITH.COM\BROOKFIELD\TRANSPORTATION\1222714.07\CIVIL3D\13800200\SHEETS\023201-PS.DWG
LAYOUT NAME - 12
PLOT DATE : 8/1/2024 1:53 PM PLOT BY : JOHNSON, BRENDEN PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT

PROPOSED SIGN MOUNTED ON WOOD OR TUBULAR STEEL POST(S)

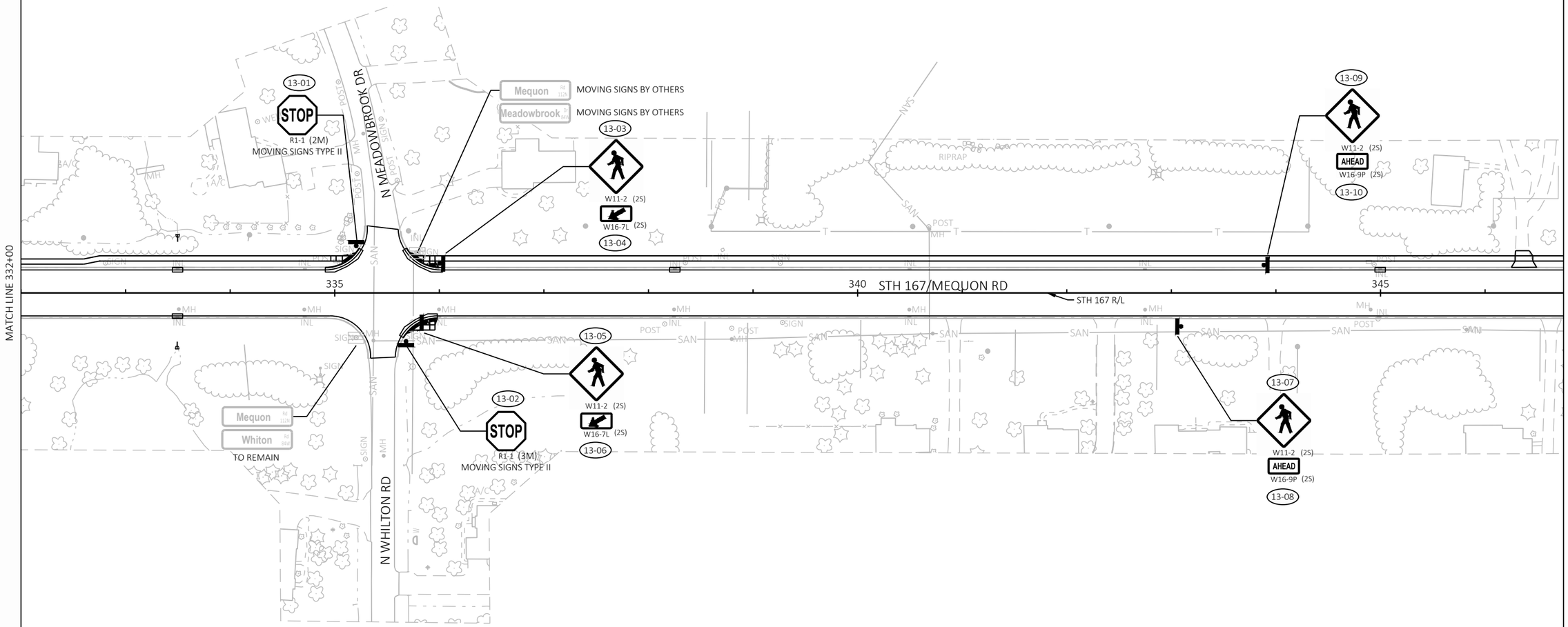
PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT

##-## DENOTES SIGN NUMBER

(X) SIZE CODE

ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED

N



SHEET 13 OF 24

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 83	E

FILE NAME : \\RASMITH.COM\BROOKFIELD\TRANSPORTATION\1222714.07\CIVIL3D\13800200\SHEETS\023201-PS.DWG
LAYOUT NAME - 13

PLOT DATE : 8/1/2024 1:53 PM PLOT BY : JOHNSON, BRENDEN PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT

PROPOSED SIGN MOUNTED ON WOOD OR TUBULAR STEEL POST(S)

PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT

##-## DENOTES SIGN NUMBER

(X) SIZE CODE

ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED

N

NO PROPOSED SIGNS ON THIS SHEET

INL

POST

MH

SIGN

STH 167/MEQUON RD

350

STH 167 R/L

MATCH LINE 346+75

MATCH LINE 352+00

SAN

14-01

W11-2 (2S)

W16-7L (2S)

14-02

SHEET 14 OF 24

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 84	E

FILE NAME : \\RASMITH.COM\BROOKFIELD\TRANSPORTATION\1222714.07\CIVIL3D\13800200\SHEETS\023201-PS.DWG
LAYOUT NAME - 14

PLOT DATE : 8/1/2024 1:53 PM PLOT BY : JOHNSON, BRENDEN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT

PROPOSED SIGN MOUNTED ON WOOD OR TUBULAR STEEL POST(S)

PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT

##-## DENOTES SIGN NUMBER

(X) SIZE CODE

ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED

N

15-03
W11-2 (2S)
W16-7L (2S)
15-04

VEGA AVE

MOVING SIGNS BY OTHERS
Mequon 112N
Vega 75W
MOVING SIGNS BY OTHERS

BERM

15-05
DO NOT ENTER
R5-1 (2M)
MOVING SIGNS TYPE II

15-06
STOP
SCHOOL BUS FLASHING RED LIGHTS
R59-51 (2M)
MOVING SIGNS TYPE II

15-07
WRONG WAY
R5-1A (2M)
MOVING SIGNS TYPE II

15-08
RIDESHARE INFO CALL
1 - 800 - 455 - POOL
D12-2A (2M)
MOVING SIGNS TYPE II

15-01
15-02
STOP
R1-1 (2M)
MOVING SIGNS TYPE II

MATCH LINE 352+00

MATCH LINE 357+25

355

STH 167 R/L

STH 167/MEQUON RD

MOVING SIGNS BY OTHERS
Mequon 112N
Lincolnshire 75W
MOVING SIGNS BY OTHERS

LINCOLNSHIRE DR

SHEET 15 OF 24

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 85	E

FILE NAME : \\RASMITH.COM\BROOKFIELD\TRANSPORTATION\1222714.07\CIVIL3D\13800200\SHEETS\023201-PS.DWG
LAYOUT NAME - 15
PLOT DATE : 8/1/2024 1:53 PM
PLOT BY : JOHNSON, BRENDEN
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- PROPOSED SIGN MOUNTED ON WOOD OR TUBULAR STEEL POST(S)
- PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- ##-## DENOTES SIGN NUMBER
- (X) SIZE CODE
- ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED

N

16-01
W11-2 (2S)
AHEAD
W16-9P (2S)
16-02

16-03
STOP
R1-1 (2M)
MOVING SIGNS TYPE II

MOVING SIGNS BY OTHERS
Mequon
Solar
MOVING SIGNS BY OTHERS

SOLAR AVE

WELL
RIPRAP
POST
SIGN
MH
SAN
INL
W
G
T
STH 167 R/L
360
STH 167/MEQUON RD

MATCH LINE 357+25

MATCH LINE 362+50

SHEET 16 OF 24

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 86	E

FILE NAME : \\RASMITH.COM\BROOKFIELD\TRANSPORTATION\1222714.07\CIVIL3D\13800200\SHEETS\023201-PS.DWG
LAYOUT NAME - 16

PLOT DATE : 8/1/2024 1:53 PM PLOT BY : JOHNSON, BRENDEN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT

PROPOSED SIGN MOUNTED ON WOOD OR TUBULAR STEEL POST(S)

PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT

##-## DENOTES SIGN NUMBER

(X) SIZE CODE

ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED

N

STH 181

STH 167/MEQUON RD

MATCH LINE 362+50

MATCH LINE 367+75

365

STH 167 R/L

NO PROPOSED SIGNS ON THIS SHEET

STH 167/MEQUON RD

STH 181

SHEET 17 OF 24

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 87	E

FILE NAME : \\RASMITH.COM\BROOKFIELD\TRANSPORTATION\1222714.07\CIVIL3D\13800200\SHEETS\023201-PS.DWG
LAYOUT NAME - 17

PLOT DATE : 8/1/2024 1:53 PM PLOT BY : JOHNSON, BRENDEN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT

PROPOSED SIGN MOUNTED ON WOOD OR TUBULAR STEEL POST(S)

PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT

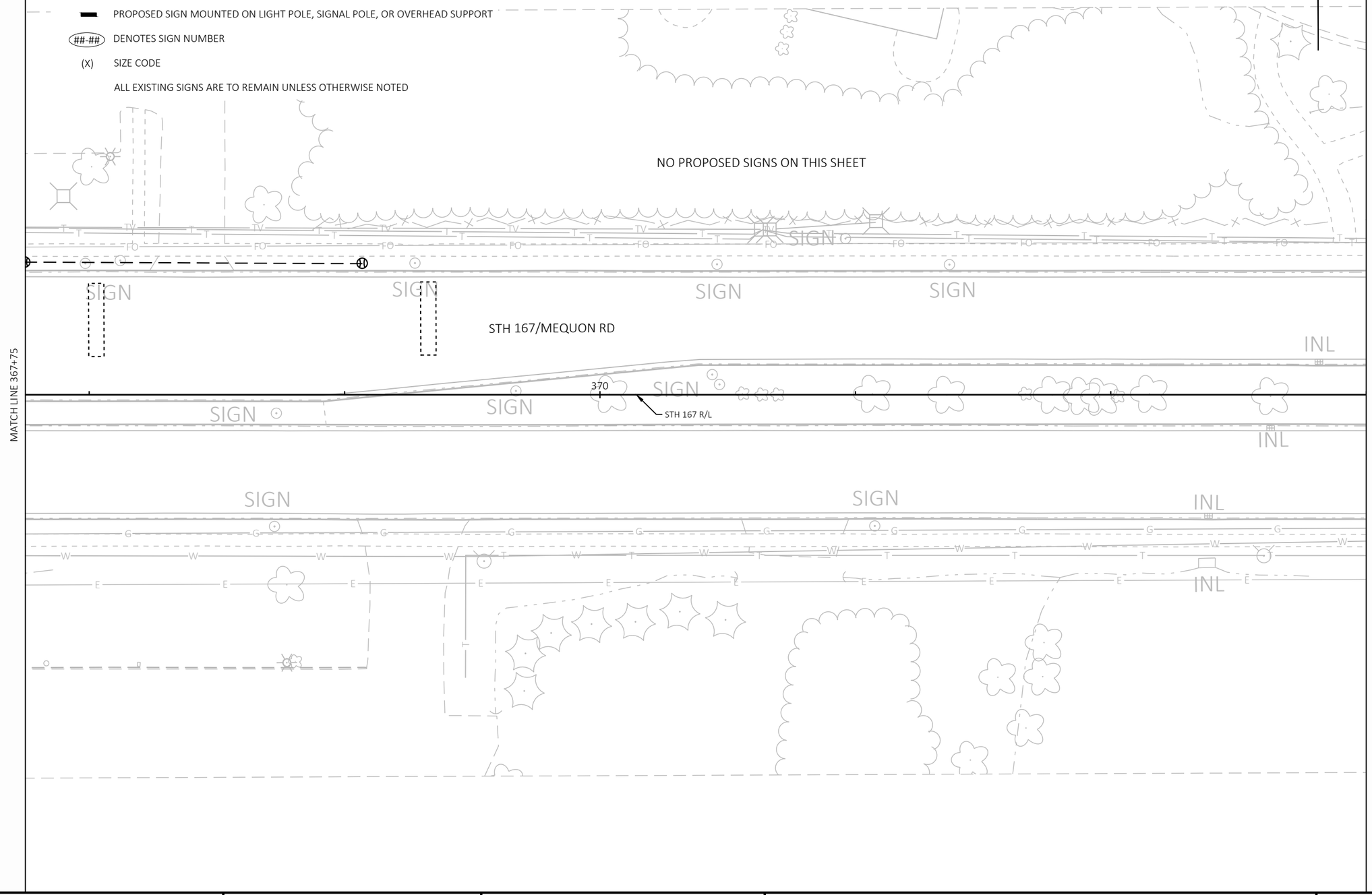
##-## DENOTES SIGN NUMBER

(X) SIZE CODE

ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED

N

NO PROPOSED SIGNS ON THIS SHEET



MATCH LINE 367+75

MATCH LINE 373+00

SHEET 18 OF 24

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 88	E

FILE NAME : \\RASMITH.COM\BROOKFIELD\TRANSPORTATION\1222714.07\CIVIL3D\13800200\SHEETS\023201-PS.DWG
LAYOUT NAME - 18

PLOT DATE : 8/1/2024 1:53 PM PLOT BY : JOHNSON, BRENDEN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT

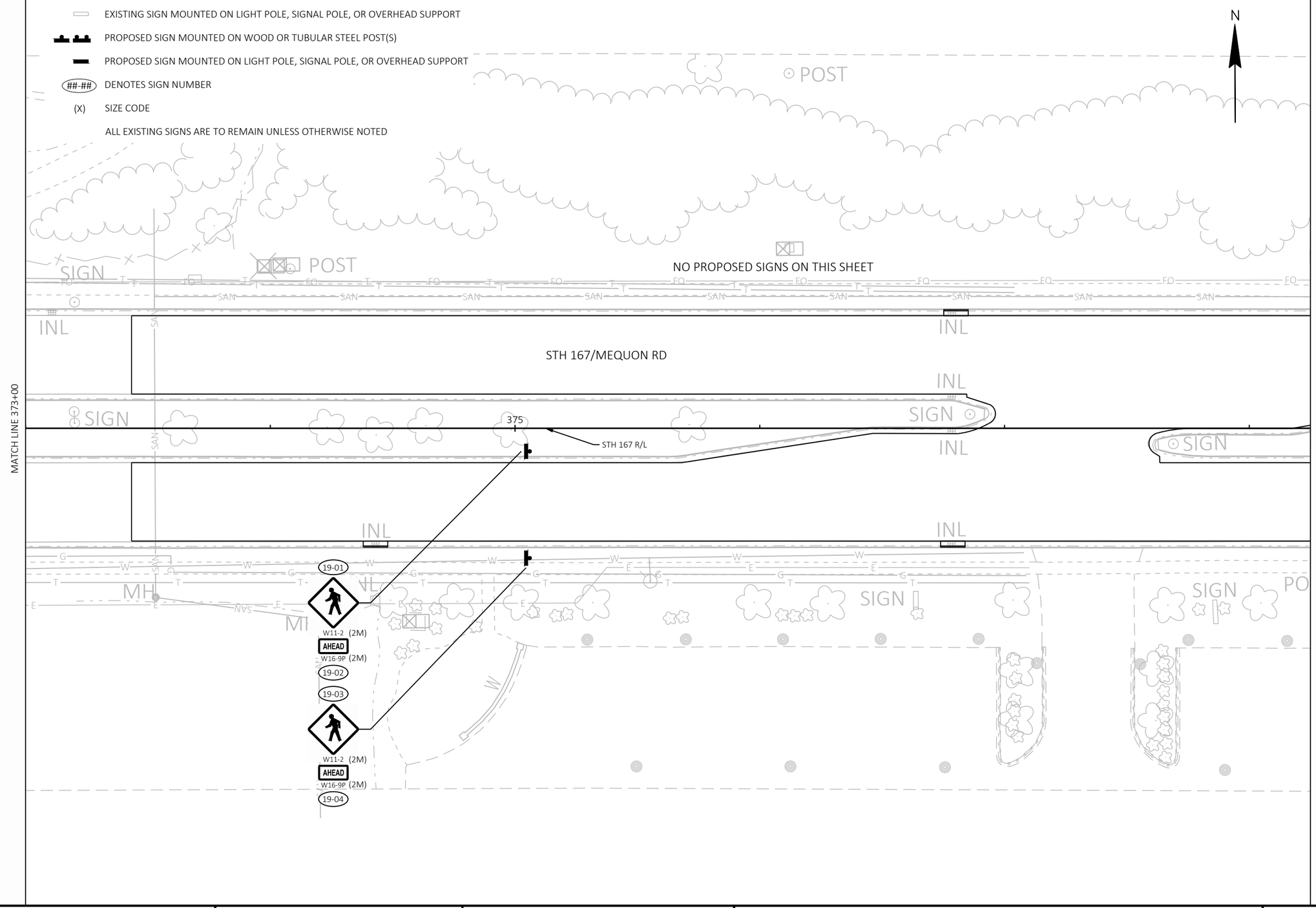
PROPOSED SIGN MOUNTED ON WOOD OR TUBULAR STEEL POST(S)

PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT

##-## DENOTES SIGN NUMBER

(X) SIZE CODE

ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED



SHEET 19 OF 24

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 89	E

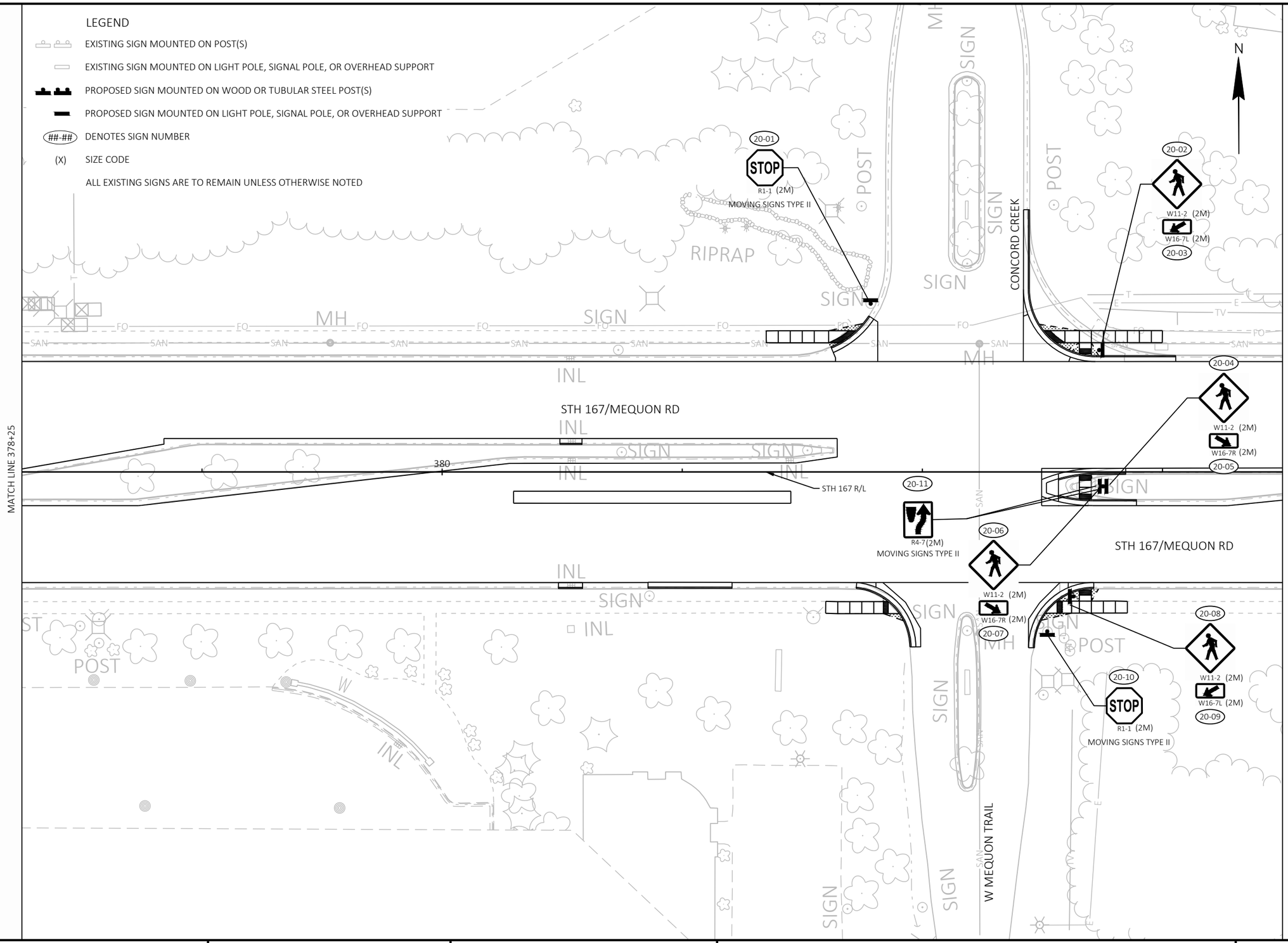
FILE NAME : \\RASMITH.COM\BROOKFIELD\TRANSPORTATION\1222714.07\CIVIL3D\13800200\SHEETS\023201-PS.DWG
LAYOUT NAME - 19

PLOT DATE : 8/1/2024 1:53 PM PLOT BY : JOHNSON, BRENDEN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- PROPOSED SIGN MOUNTED ON WOOD OR TUBULAR STEEL POST(S)
- PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- ##-## DENOTES SIGN NUMBER
- (X) SIZE CODE
- ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED



PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 90 E

FILE NAME : \\RASMITH.COM\BROOKFIELD\TRANSPORTATION\1222714.07\CIVIL3D\13800200\SHEETS\023201-PS.DWG
LAYOUT NAME - 20
PLOT DATE : 8/1/2024 1:53 PM
PLOT BY : JOHNSON, BRENDEN
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT

PROPOSED SIGN MOUNTED ON WOOD OR TUBULAR STEEL POST(S)

PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT

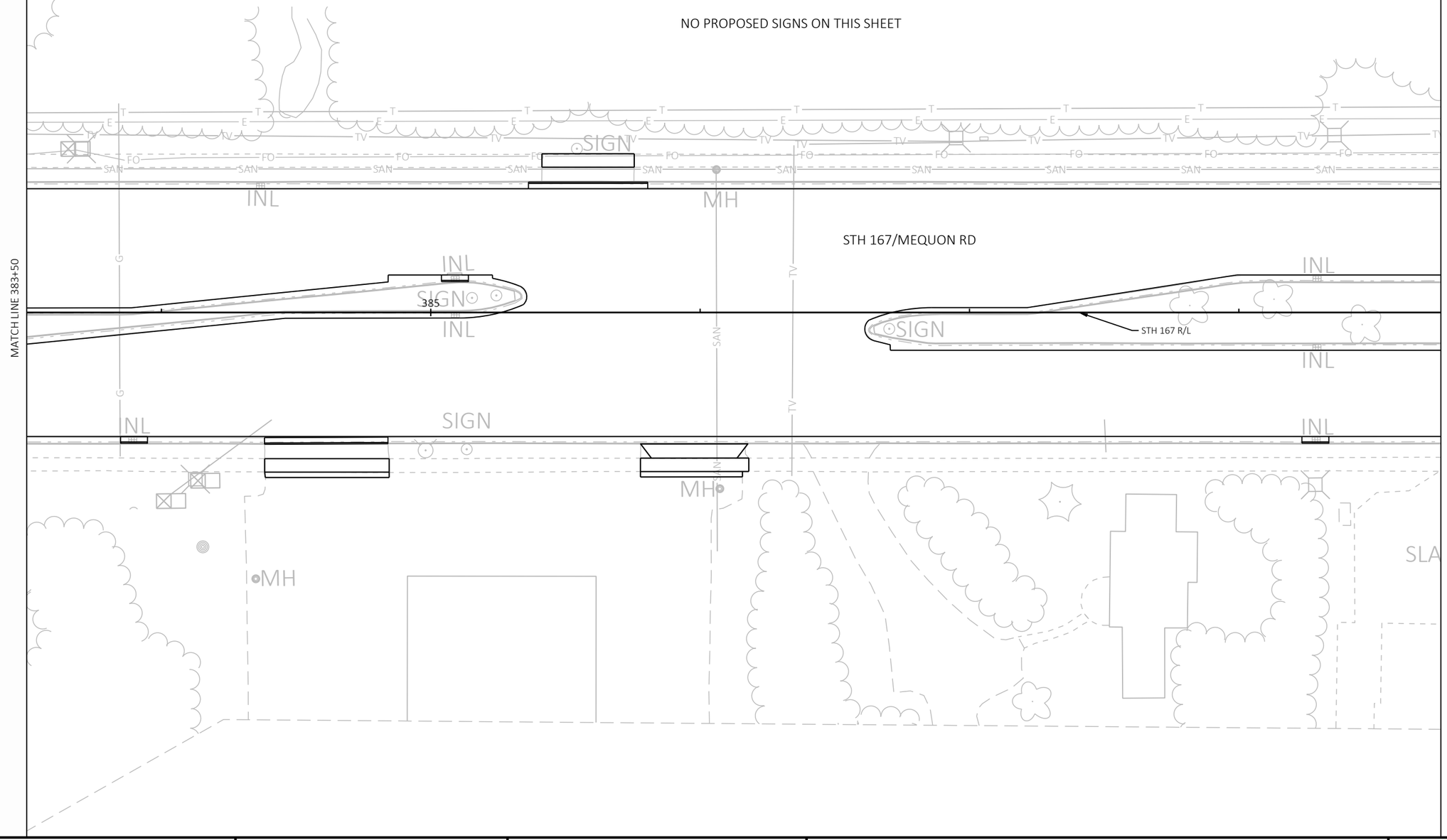
##-## DENOTES SIGN NUMBER

(X) SIZE CODE

ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED

N

NO PROPOSED SIGNS ON THIS SHEET



SHEET 21 OF 24

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 91	E

FILE NAME : \\RASMITH.COM\BROOKFIELD\TRANSPORTATION\1222714.07\CIVIL3D\13800200\SHEETS\023201-PS.DWG
LAYOUT NAME - 21

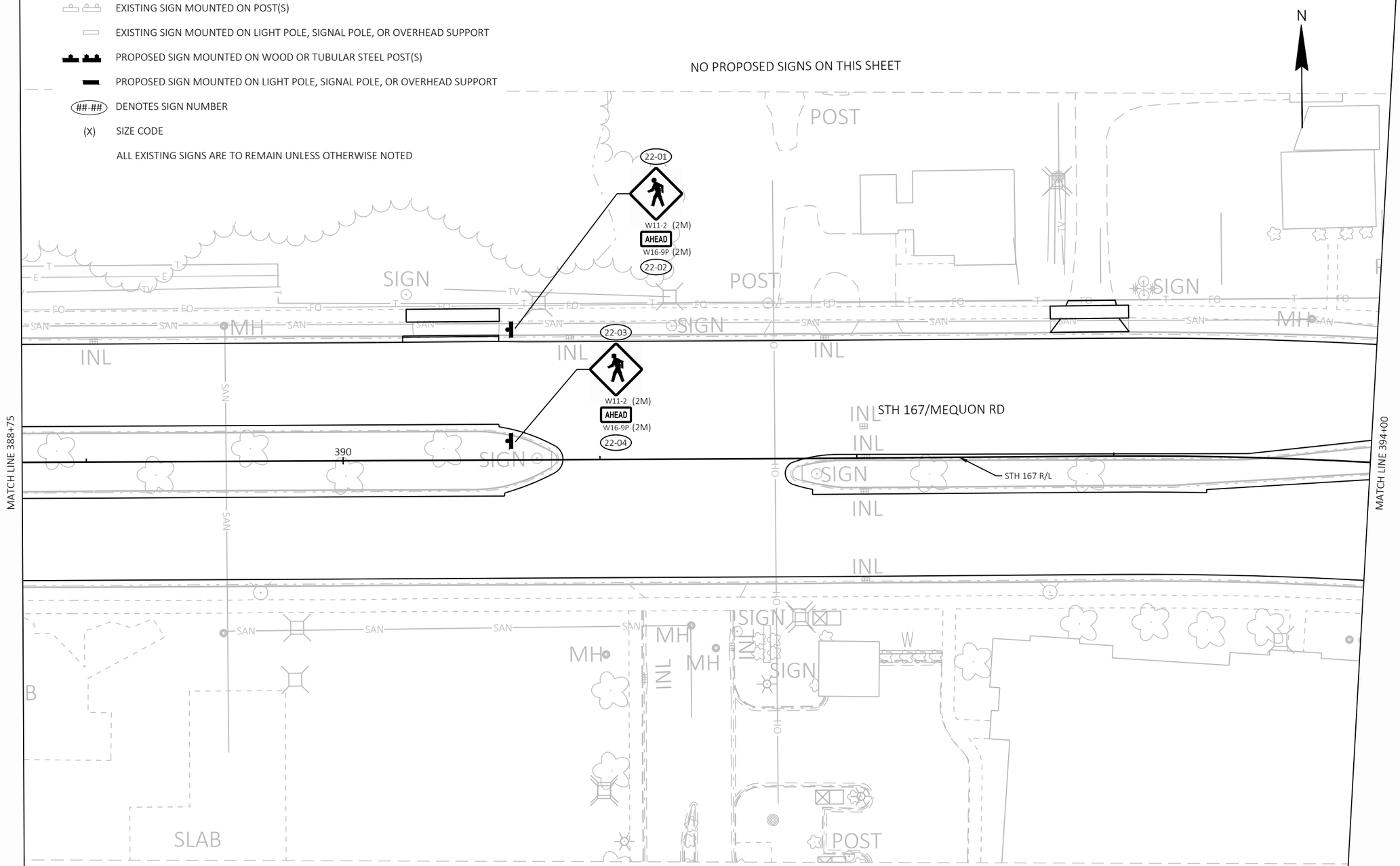
PLOT DATE : 8/1/2024 1:53 PM PLOT BY : JOHNSON, BRENDEN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- PROPOSED SIGN MOUNTED ON WOOD OR TUBULAR STEEL POST(S)
- PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- ##-## DENOTES SIGN NUMBER
- (X) SIZE CODE
- ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED

NO PROPOSED SIGNS ON THIS SHEET



PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 92	E

FILE NAME : \\RASMITH.COM\BROOKFIELD\TRANSPORTATION\1222714.07\CIVIL3D\13800200\SHEETS\023201-PS.DWG
LAYOUT NAME - 22
PLOT DATE : 8/1/2024 1:53 PM
PLOT BY : JOHNSON, BRENDEN
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT

PROPOSED SIGN MOUNTED ON WOOD OR TUBULAR STEEL POST(S)

PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT

##-## DENOTES SIGN NUMBER

(X) SIZE CODE

ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED

N

23-01

STOP

R1-1 (2M)

MOVING SIGNS TYPE II

RIVER BIRCH DR

MOVING SIGNS BY OTHERS

Mequon

River Birch

MOVING SIGNS BY OTHERS

STH 167/MEQUON RD

STH 167 R/L

MATCH LINE 394+00

MATCH LINE 399+25

395

SIGN

POST

MH

INL

FO

SAN

T

E

G

W

2

SHEET 23 OF 24

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 93	E

FILE NAME : \\RASMITH.COM\BROOKFIELD\TRANSPORTATION\1222714.07\CIVIL3D\13800200\SHEETS\023201-PS.DWG
LAYOUT NAME - 23

PLOT DATE : 8/1/2024 1:54 PM PLOT BY : JOHNSON, BRENDEN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT

PROPOSED SIGN MOUNTED ON WOOD OR TUBULAR STEEL POST(S)

PROPOSED SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT

##-## DENOTES SIGN NUMBER

(X) SIZE CODE

ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED

NO PROPOSED SIGNS ON THIS SHEET

N

N BUNTROCK AVE

STH 167/MEQUON RD

STH 167 R/L

MATCH LINE 399+25

MATCH LINE 404+50

400

2

SHEET 24 OF 24

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PERMANENT SIGNING	SHEET 94	E

FILE NAME : \\RASMITH.COM\BROOKFIELD\TRANSPORTATION\1222714.07\CIVIL3D\13800200\SHEETS\023201-PS.DWG
LAYOUT NAME - 24

PLOT DATE : 8/1/2024 1:54 PM PLOT BY : JOHNSON, BRENDEN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

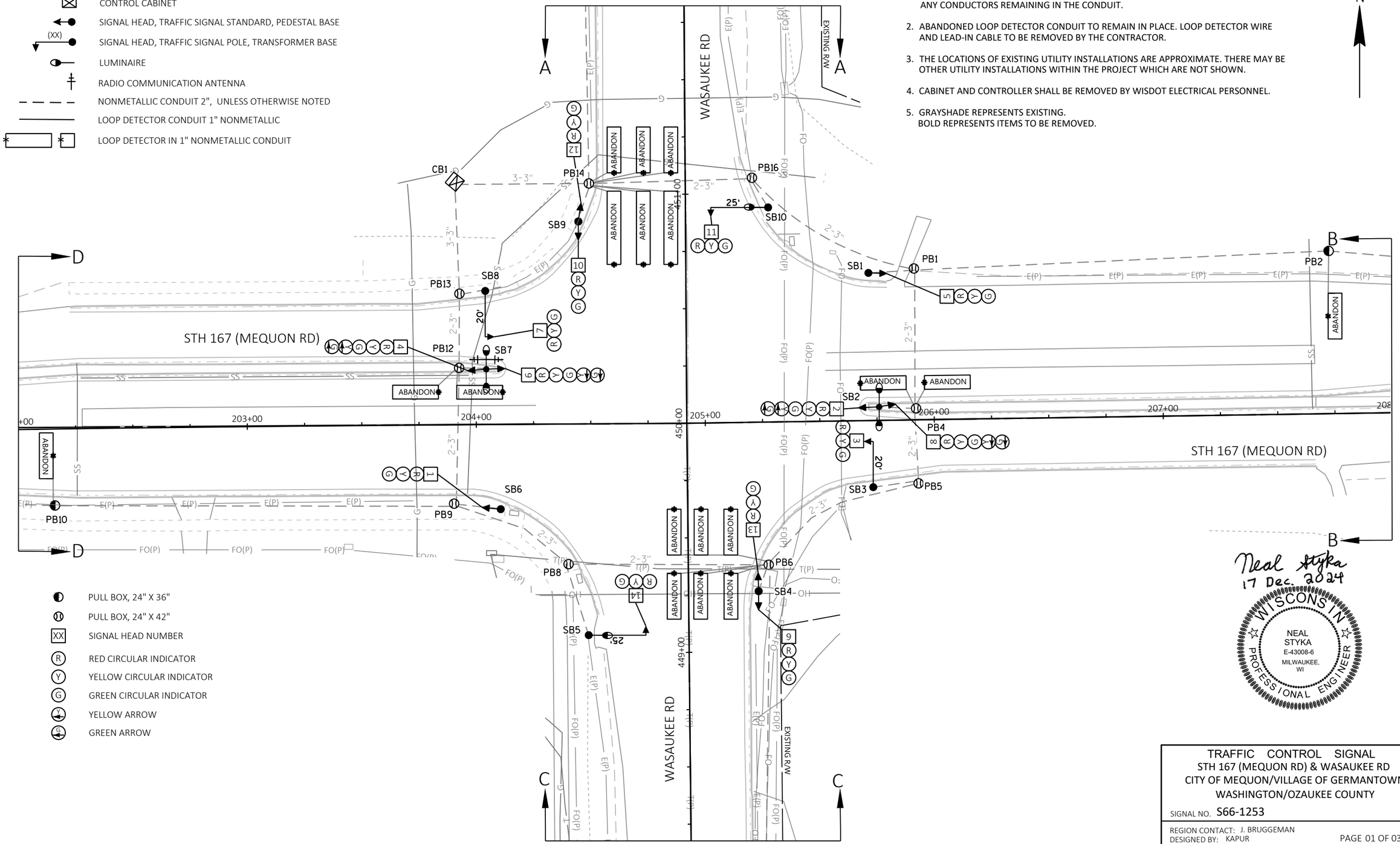
LEGEND

- CONTROL CABINET
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- LUMINAIRE
- RADIO COMMUNICATION ANTENNA
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT

CONSTRUCTION NOTE:

1. EXISTING CONDUIT RUNS TO BE ABANDONED IN PLACE. CONTRACTOR TO REMOVE ANY CONDUCTORS REMAINING IN THE CONDUIT.
2. ABANDONED LOOP DETECTOR CONDUIT TO REMAIN IN PLACE. LOOP DETECTOR WIRE AND LEAD-IN CABLE TO BE REMOVED BY THE CONTRACTOR.
3. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. CABINET AND CONTROLLER SHALL BE REMOVED BY WISDOT ELECTRICAL PERSONNEL.
5. GRAYSHADE REPRESENTS EXISTING.
   BOLD REPRESENTS ITEMS TO BE REMOVED.

N



- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- Y YELLOW ARROW
- G GREEN ARROW

Neal Styka
17 Dec. 2024

WISCONSIN
NEAL STYKA
E-43008-6
MILWAUKEE, WI
PROFESSIONAL ENGINEER

TRAFFIC CONTROL SIGNAL

STH 167 (MEQUON RD) & WASAUKEE RD
CITY OF MEQUON/VILLAGE OF GERMANTOWN
WASHINGTON/OZAUKEE COUNTY

SIGNAL NO. S66-1253

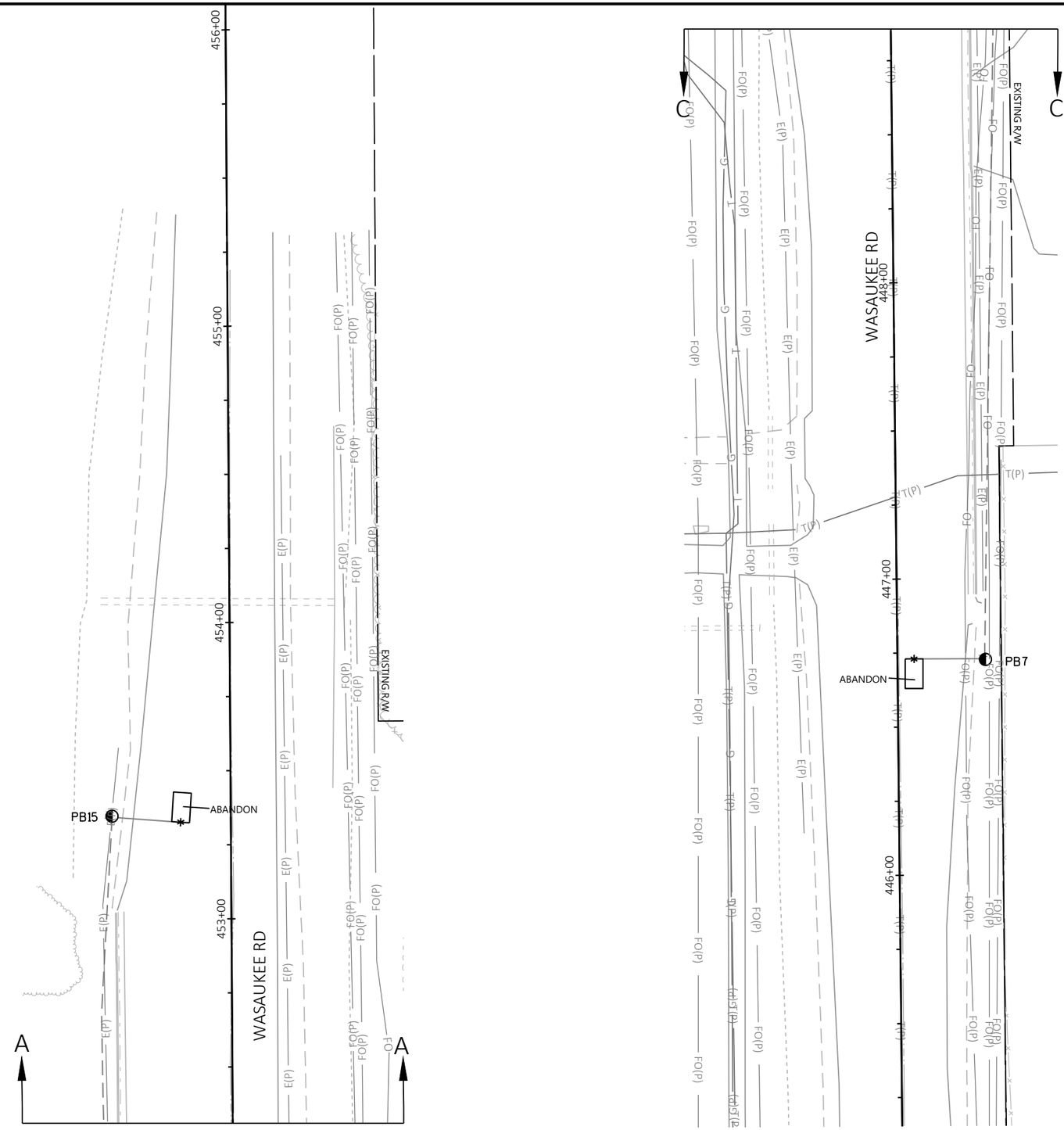
REGION CONTACT: J. BRUGGEMAN
DESIGNED BY: KAPUR
REVISED BY:

PAGE 01 OF 03

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE/WASHINGTON	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 95	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\024001_SR.DWG
LAYOUT NAME - 01
PLOT DATE : 1/7/2025 10:32 AM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



TRAFFIC CONTROL SIGNAL
STH 167 (MEQUON RD) & WASAUKEE RD
CITY OF MEQUON/VILLAGE OF GERMANTOWN
WASHINGTON/OZAUKEE COUNTY

SIGNAL NO. S66-1253

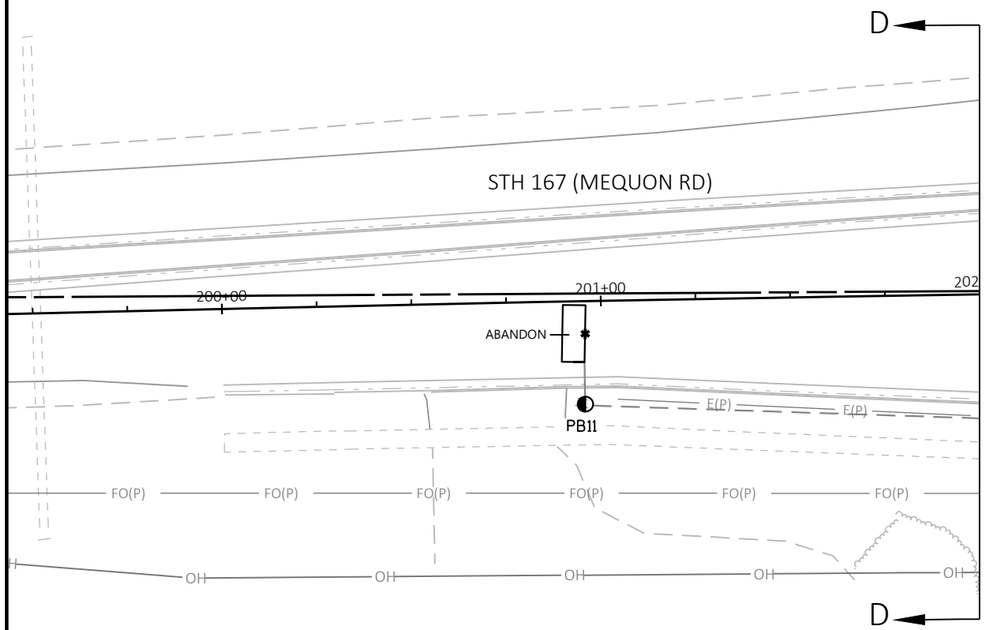
REGION CONTACT: J. BRUGGEMAN
DESIGNED BY: KAPUR
REVISED BY:

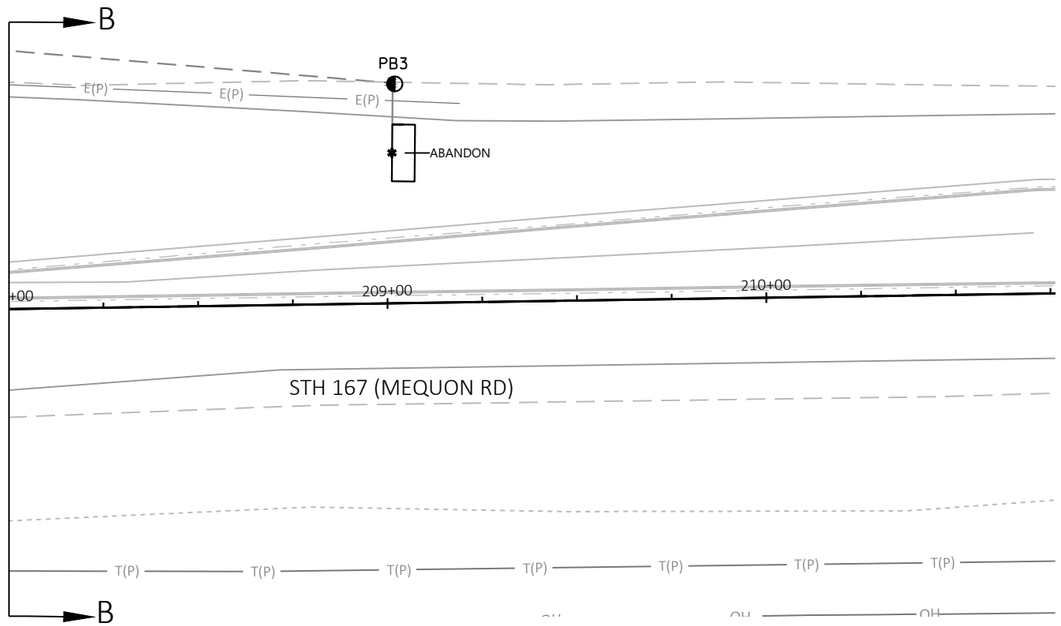
PAGE 02 OF 03

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE/WASHINGTON	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 96	E

2

N





TRAFFIC CONTROL SIGNAL
STH 167 (MEQUON RD) & WASAUKEE RD
CITY OF MEQUON/VILLAGE OF GERMANTOWN
WASHINGTON/OZAUKEE COUNTY

SIGNAL NO. S66-1253

REGION CONTACT: J. BRUGGEMAN
DESIGNED BY: KAPUR
REVISED BY:

PAGE 03 OF 03

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE/WASHINGTON	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 97	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\024001_SR.DWG
LAYOUT NAME - 03

PLOT DATE : 1/7/2025 10:33 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

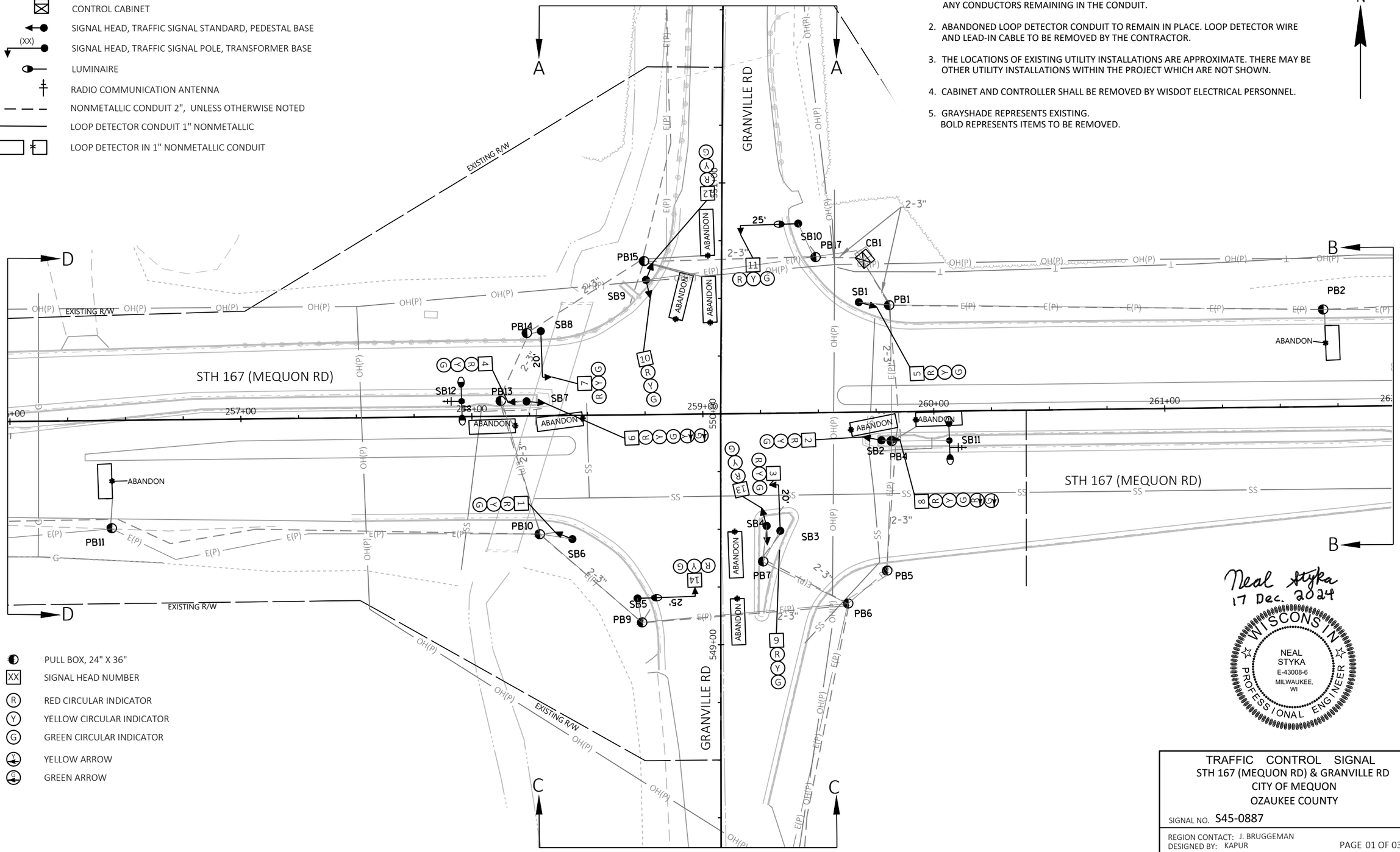
2

LEGEND

- CONTROL CABINET
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- LUMINAIRE
- RADIO COMMUNICATION ANTENNA
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- * * LOOP DETECTOR IN 1" NONMETALLIC CONDUIT

CONSTRUCTION NOTE:

1. EXISTING CONDUIT RUNS TO BE ABANDONED IN PLACE. CONTRACTOR TO REMOVE ANY CONDUCTORS REMAINING IN THE CONDUIT.
2. ABANDONED LOOP DETECTOR CONDUIT TO REMAIN IN PLACE. LOOP DETECTOR WIRE AND LEAD-IN CABLE TO BE REMOVED BY THE CONTRACTOR.
3. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. CABINET AND CONTROLLER SHALL BE REMOVED BY WISDOT ELECTRICAL PERSONNEL.
5. GRAYSHADE REPRESENTS EXISTING.
   BOLD REPRESENTS ITEMS TO BE REMOVED.



- PULL BOX, 24" X 36"
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (Y) YELLOW ARROW
- (G) GREEN ARROW

Neal Styka
17 Dec. 2024

WISCONSIN PROFESSIONAL ENGINEER
NEAL STYKA
E-43008-6
MILWAUKEE, WI

TRAFFIC CONTROL SIGNAL
STH 167 (MEQUON RD) & GRANVILLE RD
CITY OF MEQUON
OZAUKEE COUNTY

SIGNAL NO. S45-0887

REGION CONTACT: J. BRUGGEMAN
DESIGNED BY: KAPUR
REVISED BY:

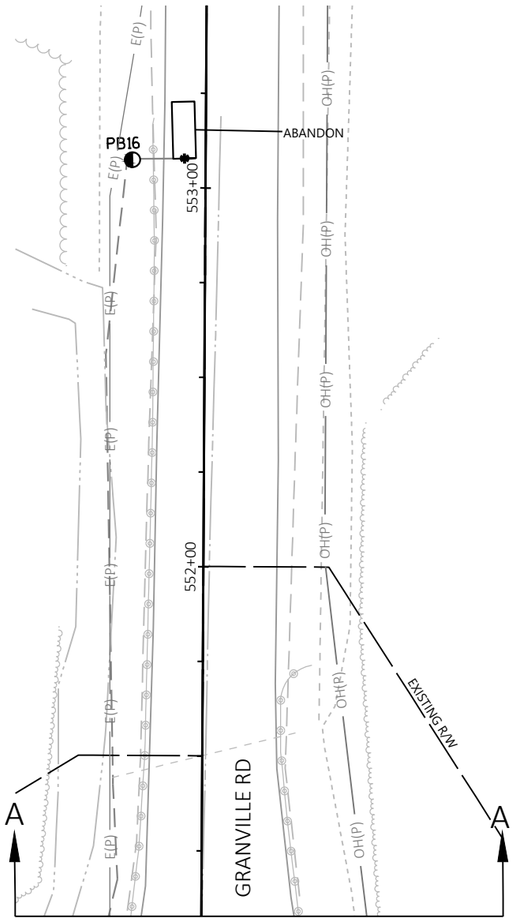
PAGE 01 OF 03

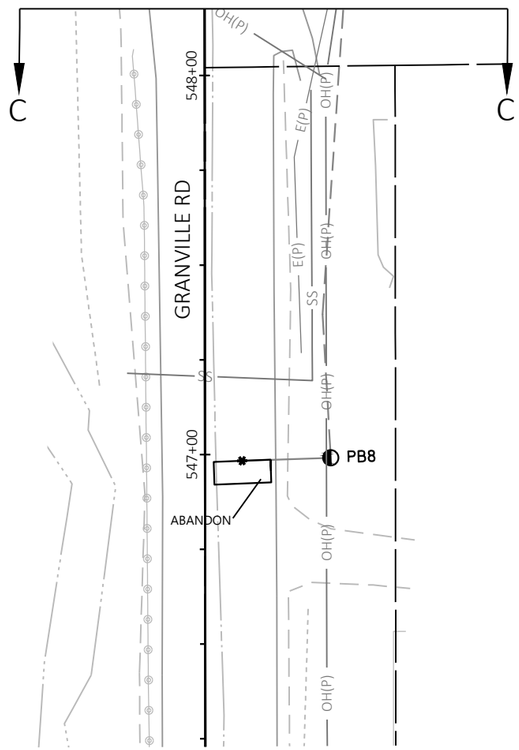
PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 98	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\024001_SR.DWG
LAYOUT NAME - 04
PLOT DATE : 1/7/2025 10:33 AM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

2

N





TRAFFIC CONTROL SIGNAL
STH 167 (MEQUON RD) & GRANVILLE RD
CITY OF MEQUON
OZAUKEE COUNTY

SIGNAL NO. S45-0887

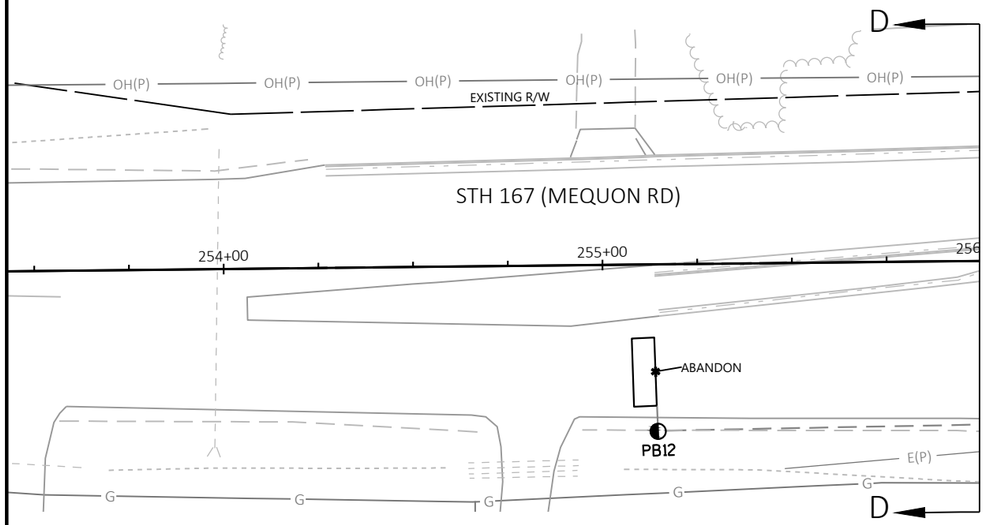
REGION CONTACT: J. BRUGGEMAN
DESIGNED BY: KAPUR
REVISED BY:

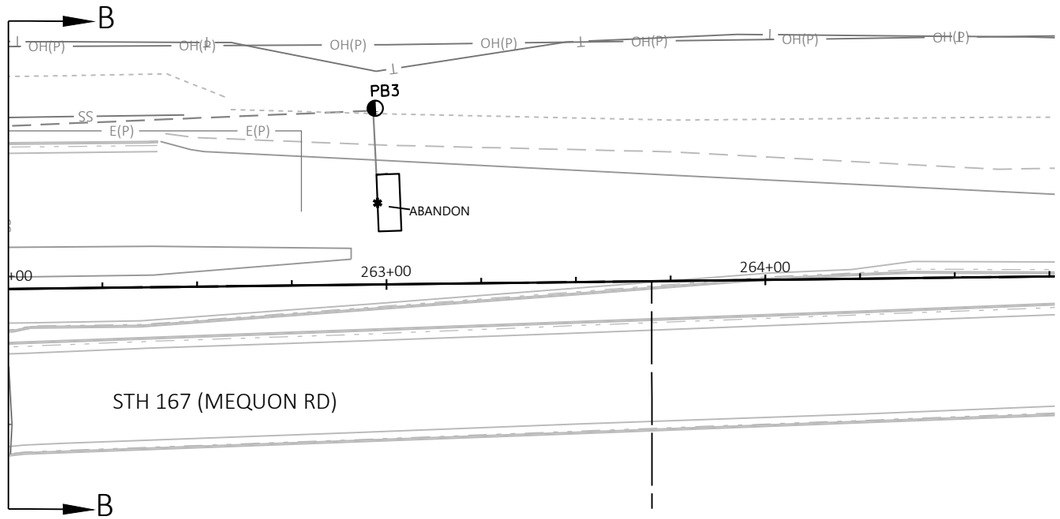
PAGE 02 OF 03

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 99	E

2

N





TRAFFIC CONTROL SIGNAL
STH 167 (MEQUON RD) & GRANVILLE RD
CITY OF MEQUON
OZAUKEE COUNTY

SIGNAL NO. S45-0887

REGION CONTACT: J. BRUGGEMAN
DESIGNED BY: KAPUR
REVISED BY:

PAGE 03 OF 03

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 100	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\024001_SR.DWG
LAYOUT NAME - 06

PLOT DATE : 1/7/2025 10:33 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

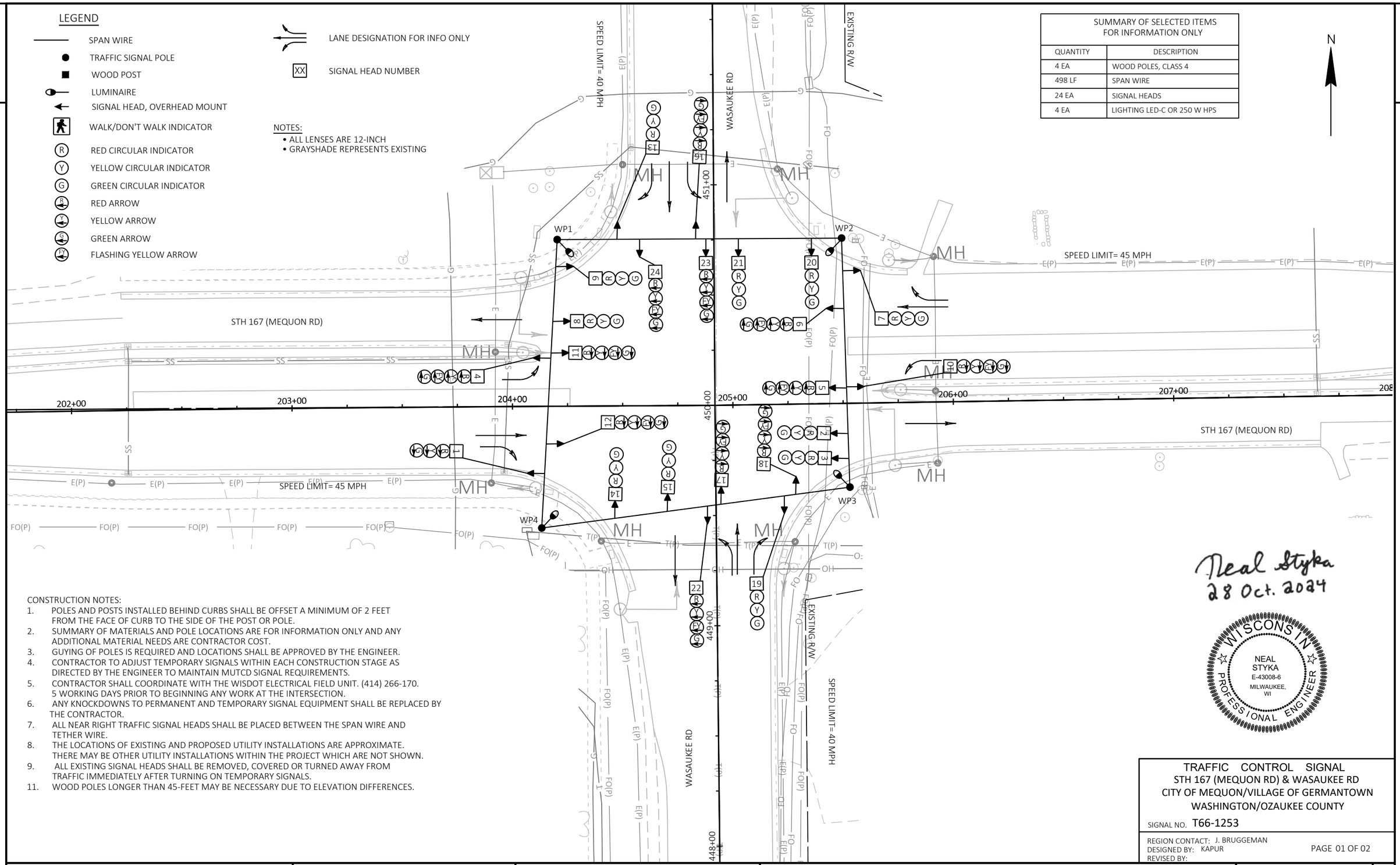
LEGEND

- SPAN WIRE
- TRAFFIC SIGNAL POLE
- WOOD POST
- LUMINAIRE
- SIGNAL HEAD, OVERHEAD MOUNT
- WALK/DON'T WALK INDICATOR
- R — RED CIRCULAR INDICATOR
- Y — YELLOW CIRCULAR INDICATOR
- G — GREEN CIRCULAR INDICATOR
- R — RED ARROW
- Y — YELLOW ARROW
- G — GREEN ARROW
- FY — FLASHING YELLOW ARROW
- LANE DESIGNATION FOR INFO ONLY
- XX — SIGNAL HEAD NUMBER

NOTES:
- ALL LENSES ARE 12-INCH
- GRAYSHADE REPRESENTS EXISTING

SUMMARY OF SELECTED ITEMS FOR INFORMATION ONLY	
QUANTITY	DESCRIPTION
4 EA	WOOD POLES, CLASS 4
498 LF	SPAN WIRE
24 EA	SIGNAL HEADS
4 EA	LIGHTING LED-C OR 250 W HPS

N



CONSTRUCTION NOTES:
1. POLES AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE.
2. SUMMARY OF MATERIALS AND POLE LOCATIONS ARE FOR INFORMATION ONLY AND ANY ADDITIONAL MATERIAL NEEDS ARE CONTRACTOR COST.
3. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
4. CONTRACTOR TO ADJUST TEMPORARY SIGNALS WITHIN EACH CONSTRUCTION STAGE AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
5. CONTRACTOR SHALL COORDINATE WITH THE WISDOT ELECTRICAL FIELD UNIT. (414) 266-170. 5 WORKING DAYS PRIOR TO BEGINNING ANY WORK AT THE INTERSECTION.
6. ANY KNOCKDOWNS TO PERMANENT AND TEMPORARY SIGNAL EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR.
7. ALL NEAR RIGHT TRAFFIC SIGNAL HEADS SHALL BE PLACED BETWEEN THE SPAN WIRE AND TETHER WIRE.
8. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
9. ALL EXISTING SIGNAL HEADS SHALL BE REMOVED, COVERED OR TURNED AWAY FROM TRAFFIC IMMEDIATELY AFTER TURNING ON TEMPORARY SIGNALS.
11. WOOD POLES LONGER THAN 45-FEET MAY BE NECESSARY DUE TO ELEVATION DIFFERENCES.

Neal Styka
28 Oct. 2024

WISCONSIN PROFESSIONAL ENGINEER
NEAL STYKA
E-43008-6
MILWAUKEE, WI

TRAFFIC CONTROL SIGNAL
STH 167 (MEQUON RD) & WASAUKEE RD
CITY OF MEQUON/VILLAGE OF GERMANTOWN
WASHINGTON/OZAUKEE COUNTY

SIGNAL NO. T66-1253

REGION CONTACT: J. BRUGGEMAN
DESIGNED BY: KAPUR
REVISED BY:

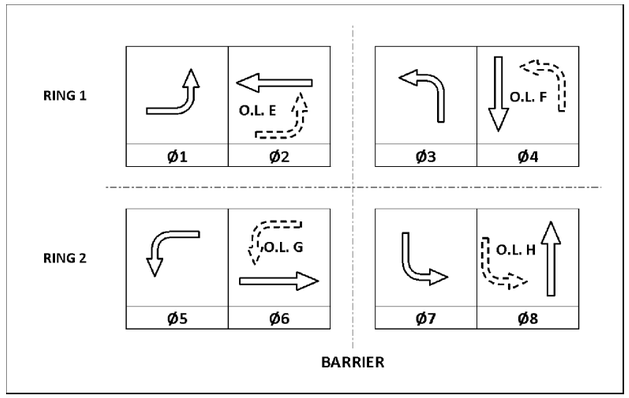
PAGE 01 OF 02

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE/WASHINGTON	TEMPORARY TRAFFIC SIGNAL PLAN	SHEET 101	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\024102_ST.DWG
LAYOUT NAME - 01
PLOT DATE : 2/14/2025 8:32 AM
PLOT BY : NEAL R. STYKA, P.E., PTOE, RSP1
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	4,5,6	R ←
Ø2	7,8,9	R
Ø3	22,23,24	R ←
Ø4	13,14,15	R
Ø5	10,11,12	R ←
Ø6	1,2,3	R
Ø7	16,17,18	R ←
Ø8	19,20,21	R
Ø2P		
Ø4P		
Ø6P		
Ø8P		
OLE	4,5,6	-
OLF	22,23,24	-
OLG	10,11,12	-
OLH	16,17,18	-



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		5	MAX	X
2	X	6	MAX	X
3		7	MAX	
4		8	MAX	X
5		1	MAX	X
6	X	2	MAX	X
7		3	MAX	
8		4	MAX	X

N

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	X

TYPE OF COORDINATION	
NONE	X
TBC	
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO: S-	
SIGNAL SYSTEM NO: SS-	

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

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

STH 167 (MEQUON RD) & WASAUKEE RD
CITY OF MEQUON/VILLAGE OF GERMANTOWN
WASHINGTON/OZAUKEE COUNTY

SIGNAL NO: T66-1253	CABINET TYPE: TEMP
	CONTROLLER TYPE: TEMP
DATE: 10/2024	PAGE NUMBER: 2 OF 2

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\024102_ST.DWG
LAYOUT NAME - 01-SignalPhasing
PLOT DATE : 2/14/2025 8:32 AM PLOT BY : NEAL R. STYKA, P.E., PTOE, RSP1 PLOT NAME : PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- SPAN WIRE
- TRAFFIC SIGNAL POLE
- WOOD POST
- LUMINAIRE
- SIGNAL HEAD, OVERHEAD MOUNT
- WALK/DON'T WALK INDICATOR
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- (FY) FLASHING YELLOW ARROW

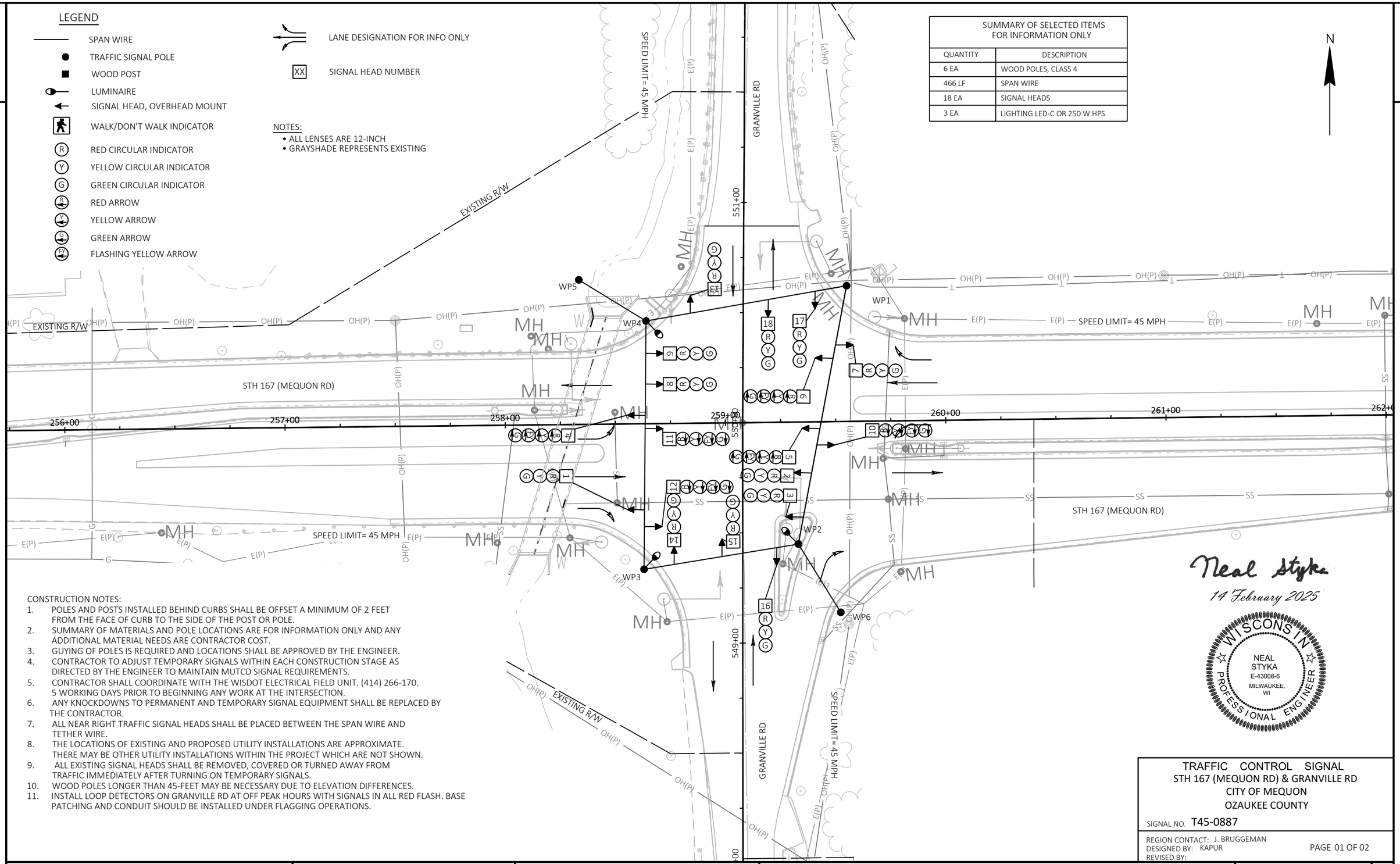
- LANE DESIGNATION FOR INFO ONLY
- (XX) SIGNAL HEAD NUMBER

NOTES:
- ALL LENSES ARE 12-INCH
- GRAYSHADE REPRESENTS EXISTING

SUMMARY OF SELECTED ITEMS FOR INFORMATION ONLY	
QUANTITY	DESCRIPTION
6 EA	WOOD POLES, CLASS 4
466 LF	SPAN WIRE
18 EA	SIGNAL HEADS
3 EA	LIGHTING LED-C OR 250 W HPS

N

2



CONSTRUCTION NOTES:
1. POLES AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE.
2. SUMMARY OF MATERIALS AND POLE LOCATIONS ARE FOR INFORMATION ONLY AND ANY ADDITIONAL MATERIAL NEEDS ARE CONTRACTOR COST.
3. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
4. CONTRACTOR TO ADJUST TEMPORARY SIGNALS WITHIN EACH CONSTRUCTION STAGE AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
5. CONTRACTOR SHALL COORDINATE WITH THE WISDOT ELECTRICAL FIELD UNIT. (414) 266-170. 5 WORKING DAYS PRIOR TO BEGINNING ANY WORK AT THE INTERSECTION.
6. ANY KNOCKDOWNS TO PERMANENT AND TEMPORARY SIGNAL EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR.
7. ALL NEAR RIGHT TRAFFIC SIGNAL HEADS SHALL BE PLACED BETWEEN THE SPAN WIRE AND TETHER WIRE.
8. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
9. ALL EXISTING SIGNAL HEADS SHALL BE REMOVED, COVERED OR TURNED AWAY FROM TRAFFIC IMMEDIATELY AFTER TURNING ON TEMPORARY SIGNALS.
10. WOOD POLES LONGER THAN 45-FEET MAY BE NECESSARY DUE TO ELEVATION DIFFERENCES.
11. INSTALL LOOP DETECTORS ON GRANVILLE RD AT OFF PEAK HOURS WITH SIGNALS IN ALL RED FLASH. BASE PATCHING AND CONDUIT SHOULD BE INSTALLED UNDER FLAGGING OPERATIONS.

Neal Styka
14 February 2025

WISCONSIN PROFESSIONAL ENGINEER
NEAL STYKA
E-43008-6
MILWAUKEE, WI

TRAFFIC CONTROL SIGNAL
STH 167 (MEQUON RD) & GRANVILLE RD
CITY OF MEQUON
OZAUKEE COUNTY

SIGNAL NO. T45-0887

REGION CONTACT: J. BRUGGEMAN
DESIGNED BY: KAPUR
REVISED BY:

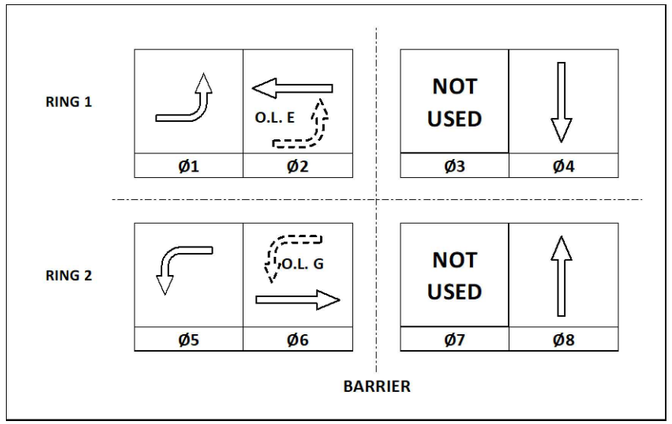
PAGE 01 OF 02

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	TEMPORARY TRAFFIC SIGNAL PLAN	SHEET 103	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\024102_ST.DWG
LAYOUT NAME - 04
PLOT DATE : 2/14/2025 8:33 AM
PLOT BY : NEAL R. STYKA, P.E., PTOE, RSP1
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	4,5,6	R ←
Ø2	7,8,9	R
Ø3		
Ø4	13,14,15	R
Ø5	10,11,12	R ←
Ø6	1,2,3	R
Ø7		
Ø8	16,17,18	R
Ø2P		
Ø4P		
Ø6P		
Ø8P		
OLE	4,5,6	-
OLF		
OLG	10,11,12	-
OLH		



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		5	MAX	X
2	X	6	MAX	X
3				
4		8	MAX	X
5		1	MAX	X
6	X	2	MAX	X
7				
8		4	MAX	X

N

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	X

TYPE OF COORDINATION	
NONE	X
TBC	
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-

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

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

STH 167 (MEQUON RD) & GRANVILLE RD

CITY OF MEQUON

OZAUKEE COUNTY

SIGNAL NO: T45-0887 **CABINET TYPE: TEMP**

CONTROLLER TYPE: TEMP

DATE: 10/2024 **PAGE NUMBER: 2 OF 2**

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\024102_ST.DWG
LAYOUT NAME - 04-SignalPhasing
PLOT DATE : 2/14/2025 8:33 AM PLOT BY : NEAL R. STYKA, P.E., PTOE, RSP3 PLOT NAME : PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 42

2

2

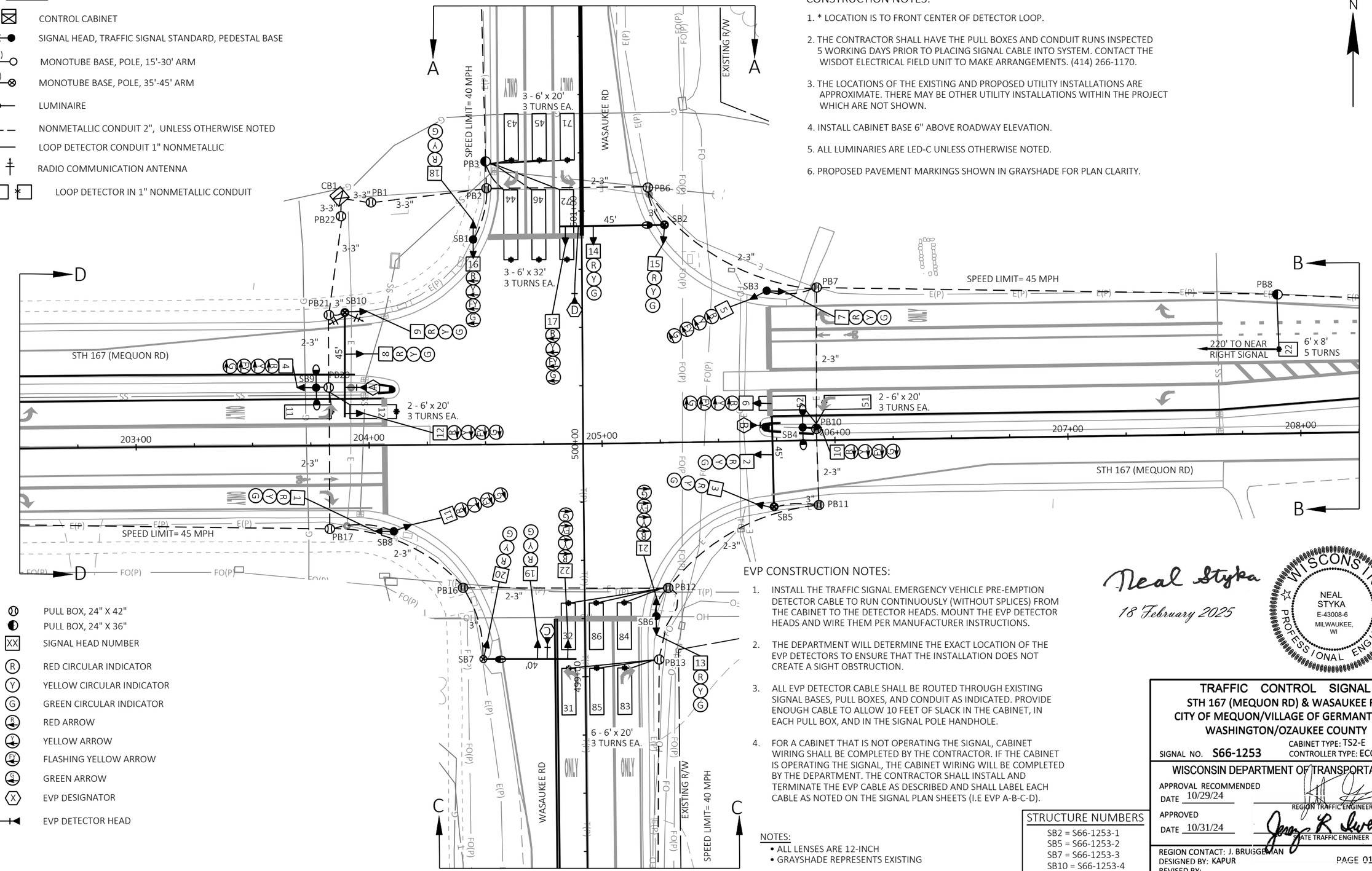
LEGEND

- CONTROL CABINET
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-45' ARM
- LUMINAIRE
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- RADIO COMMUNICATION ANTENNA
- * * LOOP DETECTOR IN 1" NONMETALLIC CONDUIT

CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP.
2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. CONTACT THE WISDOT ELECTRICAL FIELD UNIT TO MAKE ARRANGEMENTS. (414) 266-1170.
3. THE LOCATIONS OF THE EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. INSTALL CABINET BASE 6" ABOVE ROADWAY ELEVATION.
5. ALL LUMINARIES ARE LED-C UNLESS OTHERWISE NOTED.
6. PROPOSED PAVEMENT MARKINGS SHOWN IN GRAYSHADE FOR PLAN CLARITY.

N



- PULL BOX, 24" X 42"
- PULL BOX, 24" X 36"
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- RA RED ARROW
- YA YELLOW ARROW
- FYA FLASHING YELLOW ARROW
- GA GREEN ARROW
- X EVP DESIGNATOR
- EVP DETECTOR HEAD

EVP CONSTRUCTION NOTES:

1. INSTALL THE TRAFFIC SIGNAL EMERGENCY VEHICLE PRE-EMPTION DETECTOR CABLE TO RUN CONTINUOUSLY (WITHOUT SPLICES) FROM THE CABINET TO THE DETECTOR HEADS. MOUNT THE EVP DETECTOR HEADS AND WIRE THEM PER MANUFACTURER INSTRUCTIONS.
2. THE DEPARTMENT WILL DETERMINE THE EXACT LOCATION OF THE EVP DETECTORS TO ENSURE THAT THE INSTALLATION DOES NOT CREATE A SIGHT OBSTRUCTION.
3. ALL EVP DETECTOR CABLE SHALL BE ROUTED THROUGH EXISTING SIGNAL BASES, PULL BOXES, AND CONDUIT AS INDICATED. PROVIDE ENOUGH CABLE TO ALLOW 10 FEET OF SLACK IN THE CABINET, IN EACH PULL BOX, AND IN THE SIGNAL POLE HANDHOLE.
4. FOR A CABINET THAT IS NOT OPERATING THE SIGNAL, CABINET WIRING SHALL BE COMPLETED BY THE CONTRACTOR. IF THE CABINET IS OPERATING THE SIGNAL, THE CABINET WIRING WILL BE COMPLETED BY THE DEPARTMENT. THE CONTRACTOR SHALL INSTALL AND TERMINATE THE EVP CABLE AS DESCRIBED AND SHALL LABEL EACH CABLE AS NOTED ON THE SIGNAL PLAN SHEETS (I.E EVP A-B-C-D).

NOTES:
- ALL LENSES ARE 12-INCH
- GRAYSHADE REPRESENTS EXISTING

STRUCTURE NUMBERS
SB2 = S66-1253-1
SB5 = S66-1253-2
SB7 = S66-1253-3
SB10 = S66-1253-4

Neal Styka
18 February 2025

WISCONSIN NEAL STYKA E-43008-6 MILWAUKEE, WI PROFESSIONAL ENGINEER

TRAFFIC CONTROL SIGNAL
STH 167 (MEQUON RD) & WASAUKEE RD
CITY OF MEQUON/VILLAGE OF GERMANTOWN
WASHINGTON/OZAUKEE COUNTY

SIGNAL NO. S66-1253
CABINET TYPE: TS2-E
CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
DATE 10/29/24 REGION TRAFFIC ENGINEER

APPROVED
DATE 10/31/24 STATE TRAFFIC ENGINEER

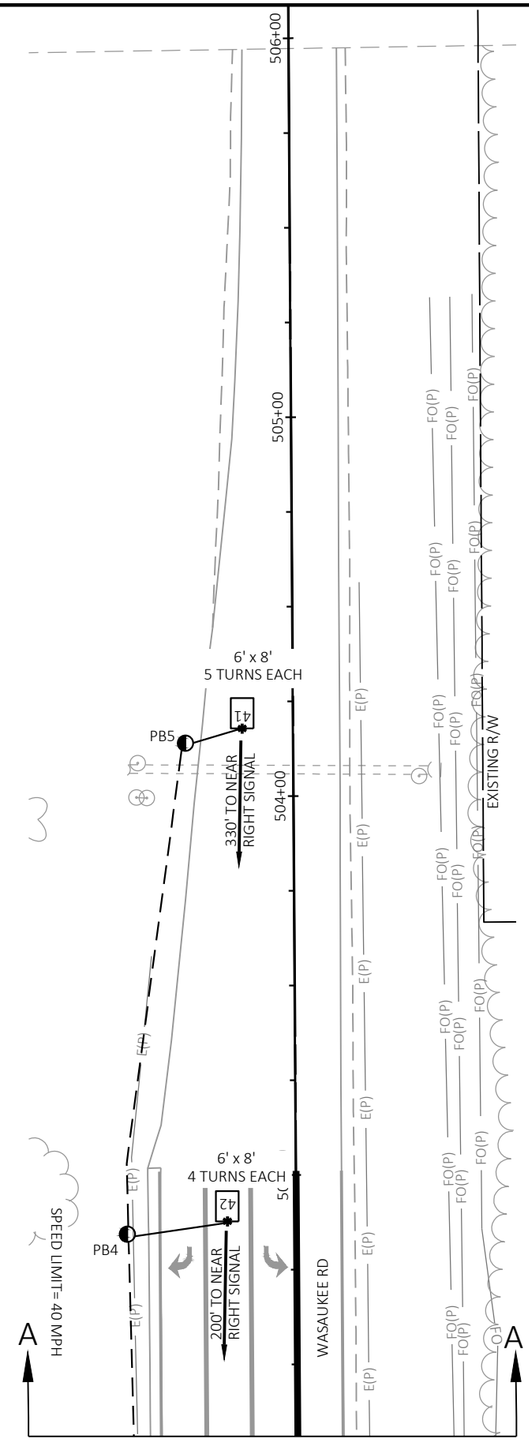
REGION CONTACT: J. BRUGGEMAN
DESIGNED BY: KAPUR
REVISED BY:

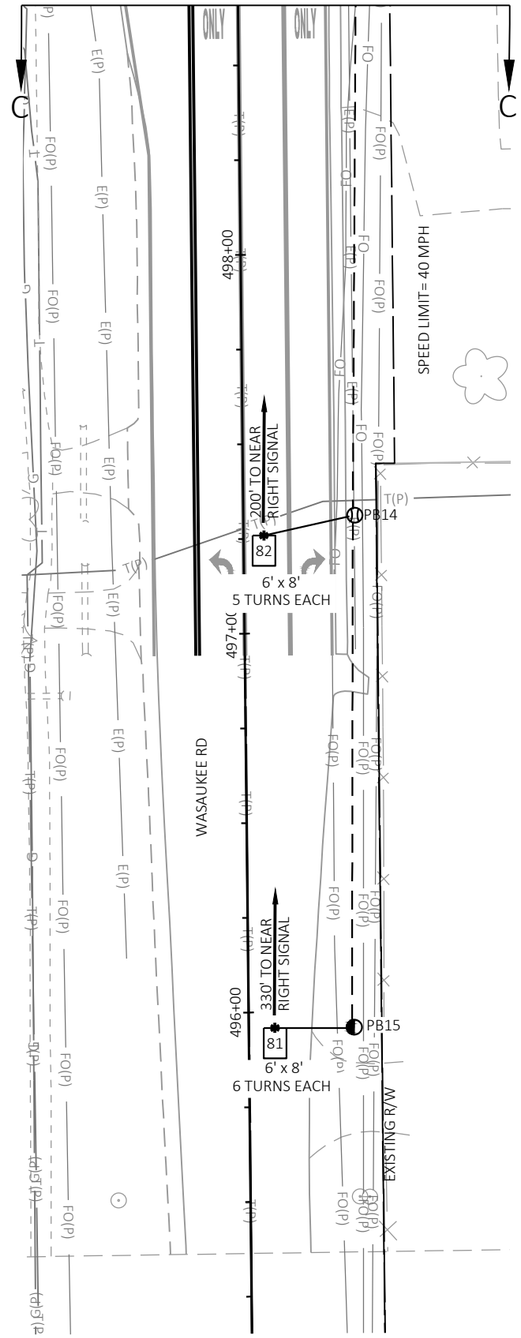
PAGE 01 OF 04

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE/WASHINGTON	TRAFFIC SIGNAL PLAN	SHEET 105	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\024202_SP.DWG
LAYOUT NAME - TS1-1
PLOT DATE : 2/18/2025 2:54 PM
PLOT BY : NEAL R. STYKA, P.E., PTOE, RSP3
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42





TRAFFIC CONTROL SIGNAL
STH 167 (MEQUON RD) & WASAUKEE RD
CITY OF MEQUON/VILLAGE OF GERMANTOWN
WASHINGTON/OZAUKEE COUNTY

SIGNAL NO. S66-1253

REGION CONTACT: J. BRUGGEMAN
DESIGNED BY: KAPUR
REVISED BY:

PAGE 02 OF 04

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE/WASHINGTON	TRAFFIC SIGNAL PLAN	SHEET 106	E

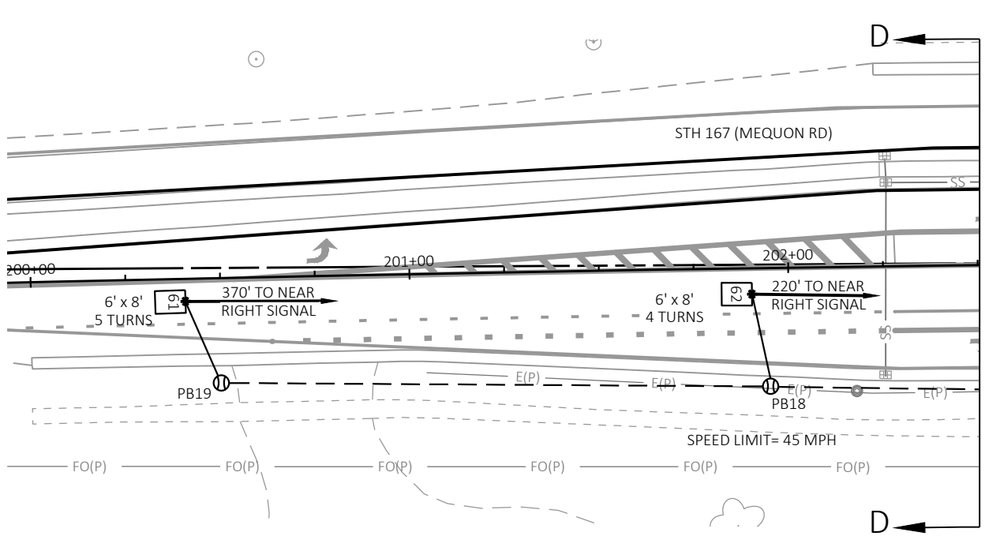
FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\024202_SP.DWG
LAYOUT NAME - TS1-2

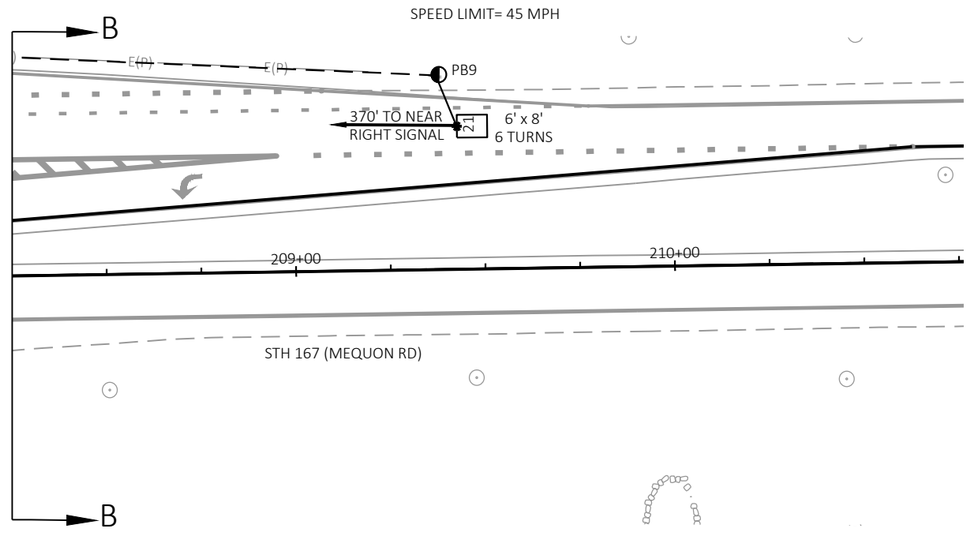
PLOT DATE : 2/14/2025 8:38 AM PLOT BY : NEAL R. STYKA, P.E., PTOE, RSP3 PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N





TRAFFIC CONTROL SIGNAL
STH 167 (MEQUON RD) & WASAUKEE RD
CITY OF MEQUON/VILLAGE OF GERMANTOWN
WASHINGTON/OZAUKEE COUNTY

SIGNAL NO. S66-1253

REGION CONTACT: J. BRUGGEMAN
DESIGNED BY: KAPUR
REVISED BY:

PAGE 03 OF 04

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE/WASHINGTON	TRAFFIC SIGNAL PLAN	SHEET 107	E

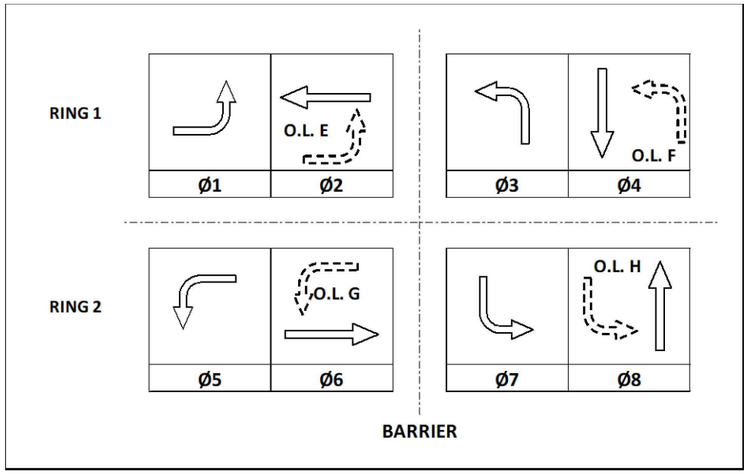
FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\024202_SP.DWG
LAYOUT NAME - TS1-3

PLOT DATE : 2/14/2025 8:39 AM PLOT BY : NEAL R. STYKA, P.E., PTOE, RSP3 PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

	HEAD NUMBERS	FLASH
Ø1	4,5,6	R
Ø2	7,8,9	R
Ø3	16,17	R
Ø4	18,19,20	R
Ø5	10,11,12	R
Ø6	1,2,3	R
Ø7	21,22	R
Ø8	13,14,15	R
Ø2P		
Ø4P		
Ø6P		
Ø8P		
OLE	4,5,6	-
OLF	16,17	-
OLG	10,11,12	-
OLH	21,22	-



EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT				
PHASE	2+5	1+6	4+7	3+8

AFTER PREEMPTION SEQUENCE 2+5 OR 1+6, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+7 OR 3+8, CONTROLLER SHALL RETURN TO PHASES 4+8.

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN	X
7		4		X
8		4		X

N

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	X
CELL MODEM	

TYPE OF COORDINATION	
NONE	X
TBC	
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO: S-	
SIGNAL SYSTEM NO: SS-	

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

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

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13	19	17	23	21	27	25	31	29	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	11	21	31	41	43	45	51	61	71	81	83	85					PLAN LOOP DETECTOR*(S)
CALLED PHASE	1	2	3	4	4	4	5	6	7	8	8	8					CALLED PHASE
CALL OPTION	X	X	X		X	X	X	X	X		X	X					CALL OPTION
DELAY TIME					X						X						DELAY TIME
EXTENTION OPTION	X	X	X	X	X	X	X	X	X	X	X	X					EXTENTION OPTION
EXTEND TIME				X						X							EXTEND TIME
USE ADDED INITIAL		X						X	X								USE ADDED INITIAL
CROSS SWITCH PHASE	2		4				6		8								CROSS SWITCH PHASE

DETECTOR INPUT	4	2	8	6	12	10	16	14	20	18	24	22	28	26	32	30	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	12	22	32	42	44	46	52	62	72	82	84	86					PLAN LOOP DETECTOR*(S)
CALLED PHASE	1	2	3	4	4	4	5	6	7	8	8	8					CALLED PHASE
CALL OPTION	X	X	X		X	X	X	X	X		X	X					CALL OPTION
DELAY TIME					X						X						DELAY TIME
EXTENTION OPTION	X	X	X	X	X	X	X	X	X	X	X	X					EXTENTION OPTION
EXTEND TIME				X						X							EXTEND TIME
USE ADDED INITIAL		X						X	X								USE ADDED INITIAL
CROSS SWITCH PHASE	2		4				6		8								CROSS SWITCH PHASE

STH 167 (MEQUON RD) & WASAUKEE RD
CITY OF MEQUON/VILLAGE OF GERMANTOWN
WASHINGTON/OZAUKEE COUNTY

SIGNAL NO: S66-1253 CABINET TYPE: TS2-E
CONTROLLER TYPE: ECONOLITE
DATE: 10/2024 PAGE NUMBER: 04 OF 04

PROJECT NO: 1380-02-70 | HWY: STH 167 | COUNTY: OZAUKEE/WASHINGTON | SEQUENCE OF OPERATIONS | SHEET 108 E

PROJECT ID:	1380-02-70
INTERSECTION:	STH 167 (MEQUON RD) & WASAUKEE RD

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

CB1 TO	NO. OF CONDUCTORS	HEAD NO.	RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	FLASHING <YELLOW>	D/WALK	WALK	PED NEUTRAL	OTHER
SB1	12	16				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		18	RED	ORANGE	GREEN								
SB2	12	14	RED	ORANGE	GREEN								
		15	RED	ORANGE	GREEN								
		17				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
SB3	12	5				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		7	RED	ORANGE	GREEN								
SB4	12	10				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
SB5	12	2	RED	ORANGE	GREEN								
		3	RED	ORANGE	GREEN								
		6				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
SB6	12	13	RED	ORANGE	GREEN								
		21				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
SB7	12	19	RED	ORANGE	GREEN								
		20	RED	ORANGE	GREEN								
		22				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
SB8	12	1	RED	ORANGE	GREEN								
		11				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
SB9	12	4				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
SB10	12	8	RED	ORANGE	GREEN								
		9	RED	ORANGE	GREEN								
		12				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				

NOTES:
1. USE 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 ON TERMINAL FROM THE PEDESTRIAN PUSH BUTTONS TO THE COLOR INDICATED IN THE CHART. CONNECT THE OTHER TERMINAL TO THE GROUNDED CONDUCTOR.

(CONTINUED ON NEXT SHEET)

2

(CONTINUED)

EQUIPMENT GROUNDING CONDUCTOR 10 AWG GRN XLP	
FROM	TO
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	CB1

LIGHTING UF #12 W/ GROUND	
FROM	TO
CB1	SB2
SB2	SB4
SB9	SB7
CB1	SB9

PULL BOX BONDING JUMPER 10 AWG GRN XLP	
FROM	TO
PB1	CB1
PB2	CB1
PB6	SB2
PB7	SB3
PB10	SB4
PB11	SB5
PB12	SB6
PB16	SB7
PB17	SB8
PB20	SB9
PB21	SB10
PB22	CB1

EMERGENCY VEHICLE PREEMPTION	
FROM	TO
CB1	SB10 (HEAD A)
CB1	SB5 (HEAD B)
CB1	SB7 (HEAD C)
CB1	SB2 (HEAD D)

2

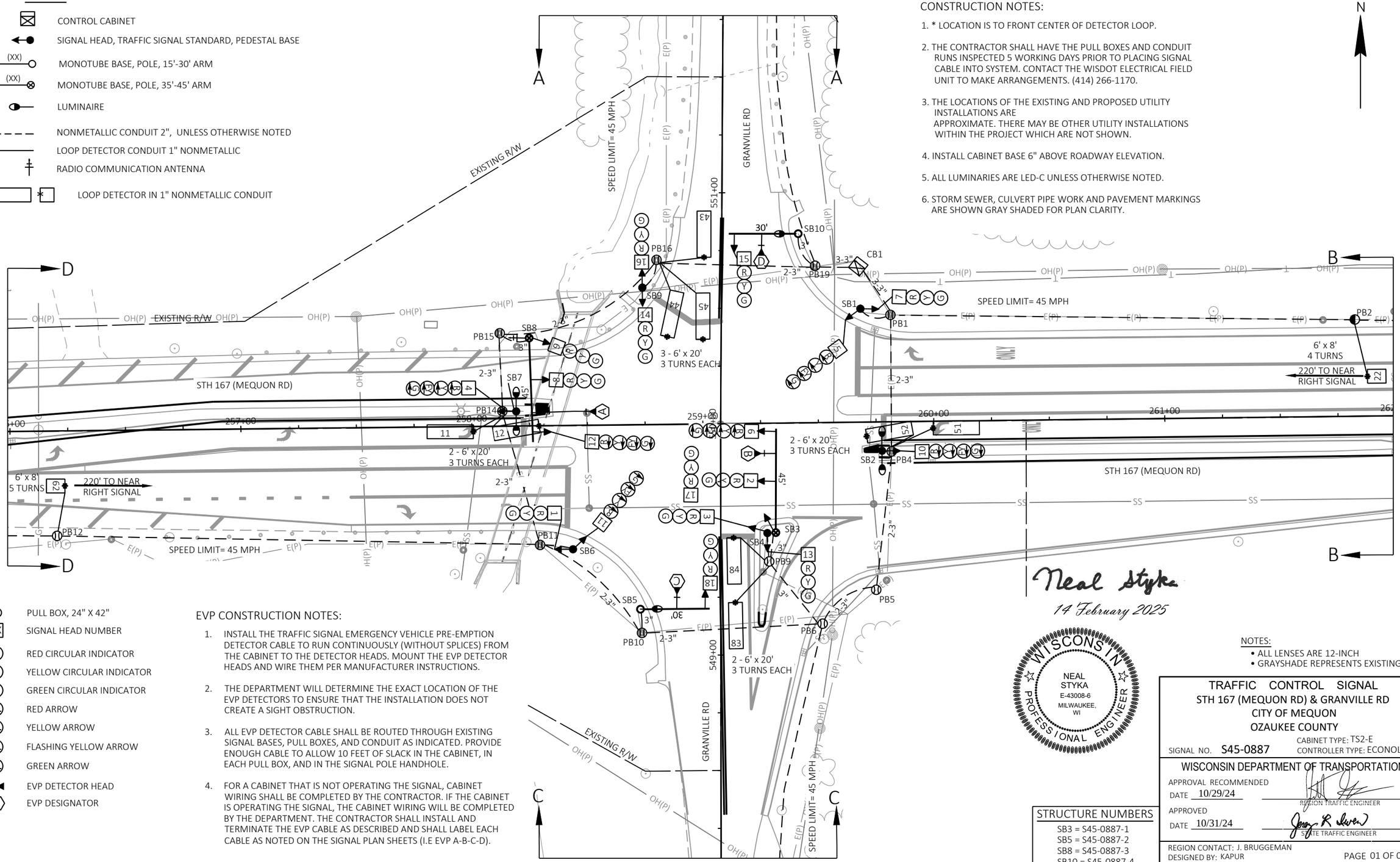
2

LEGEND

- CONTROL CABINET
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-45' ARM
- LUMINAIRE
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- RADIO COMMUNICATION ANTENNA
- * * LOOP DETECTOR IN 1" NONMETALLIC CONDUIT

CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP.
2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. CONTACT THE WISDOT ELECTRICAL FIELD UNIT TO MAKE ARRANGEMENTS. (414) 266-1170.
3. THE LOCATIONS OF THE EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. INSTALL CABINET BASE 6" ABOVE ROADWAY ELEVATION.
5. ALL LUMINARIES ARE LED-C UNLESS OTHERWISE NOTED.
6. STORM SEWER, CULVERT PIPE WORK AND PAVEMENT MARKINGS ARE SHOWN GRAY SHADED FOR PLAN CLARITY.



- PULL BOX, 24" X 42"
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- RA RED ARROW
- YA YELLOW ARROW
- FY FLASHING YELLOW ARROW
- GA GREEN ARROW
- EVP DETECTOR HEAD
- X EVP DESIGNATOR

EVP CONSTRUCTION NOTES:

1. INSTALL THE TRAFFIC SIGNAL EMERGENCY VEHICLE PRE-EMPTION DETECTOR CABLE TO RUN CONTINUOUSLY (WITHOUT SPLICES) FROM THE CABINET TO THE DETECTOR HEADS. MOUNT THE EVP DETECTOR HEADS AND WIRE THEM PER MANUFACTURER INSTRUCTIONS.
2. THE DEPARTMENT WILL DETERMINE THE EXACT LOCATION OF THE EVP DETECTORS TO ENSURE THAT THE INSTALLATION DOES NOT CREATE A SIGHT OBSTRUCTION.
3. ALL EVP DETECTOR CABLE SHALL BE ROUTED THROUGH EXISTING SIGNAL BASES, PULL BOXES, AND CONDUIT AS INDICATED. PROVIDE ENOUGH CABLE TO ALLOW 10 FEET OF SLACK IN THE CABINET, IN EACH PULL BOX, AND IN THE SIGNAL POLE HANDHOLE.
4. FOR A CABINET THAT IS NOT OPERATING THE SIGNAL, CABINET WIRING SHALL BE COMPLETED BY THE CONTRACTOR. IF THE CABINET IS OPERATING THE SIGNAL, THE CABINET WIRING WILL BE COMPLETED BY THE DEPARTMENT. THE CONTRACTOR SHALL INSTALL AND TERMINATE THE EVP CABLE AS DESCRIBED AND SHALL LABEL EACH CABLE AS NOTED ON THE SIGNAL PLAN SHEETS (I.E EVP A-B-C-D).

Neal Styka

14 February 2025

NEAL STYKA E-43008-6 MILWAUKEE, WI — WISCONSIN PROFESSIONAL ENGINEER

NOTES:
- ALL LENSES ARE 12-INCH
- GRAYSHADE REPRESENTS EXISTING

STRUCTURE NUMBERS

SB3 = S45-0887-1
SB5 = S45-0887-2
SB8 = S45-0887-3
SB10 = S45-0887-4

TRAFFIC CONTROL SIGNAL

STH 167 (MEQUON RD) & GRANVILLE RD
CITY OF MEQUON
OZAUKEE COUNTY

SIGNAL NO. S45-0887
CABINET TYPE: TS2-E
CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

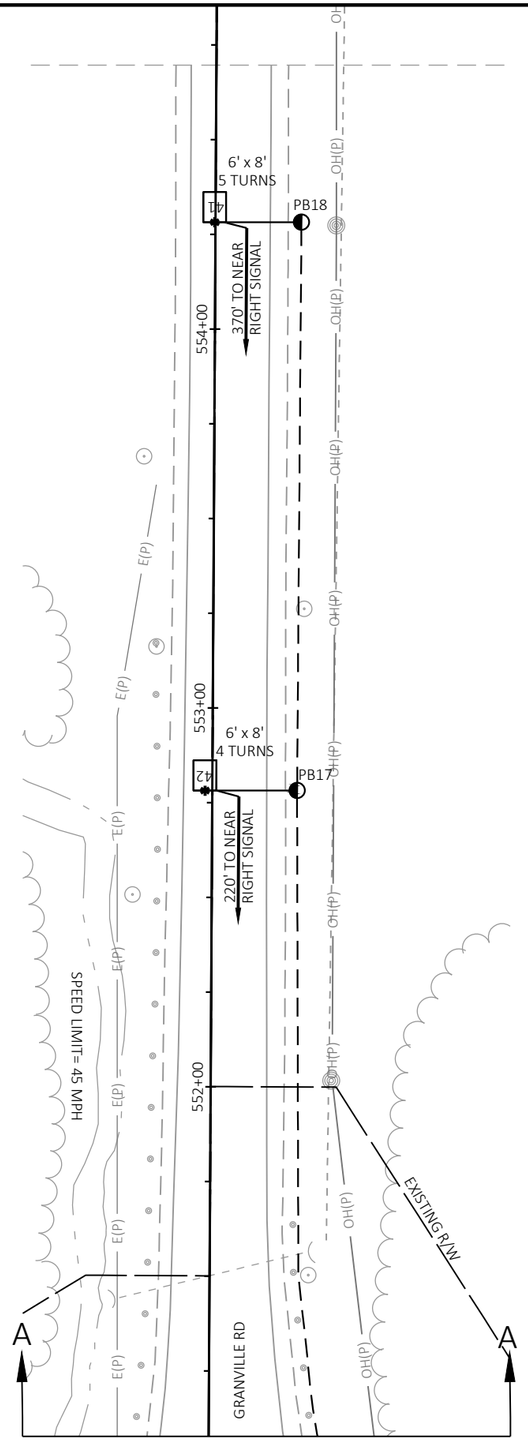
APPROVAL RECOMMENDED
DATE 10/29/24 REGION TRAFFIC ENGINEER

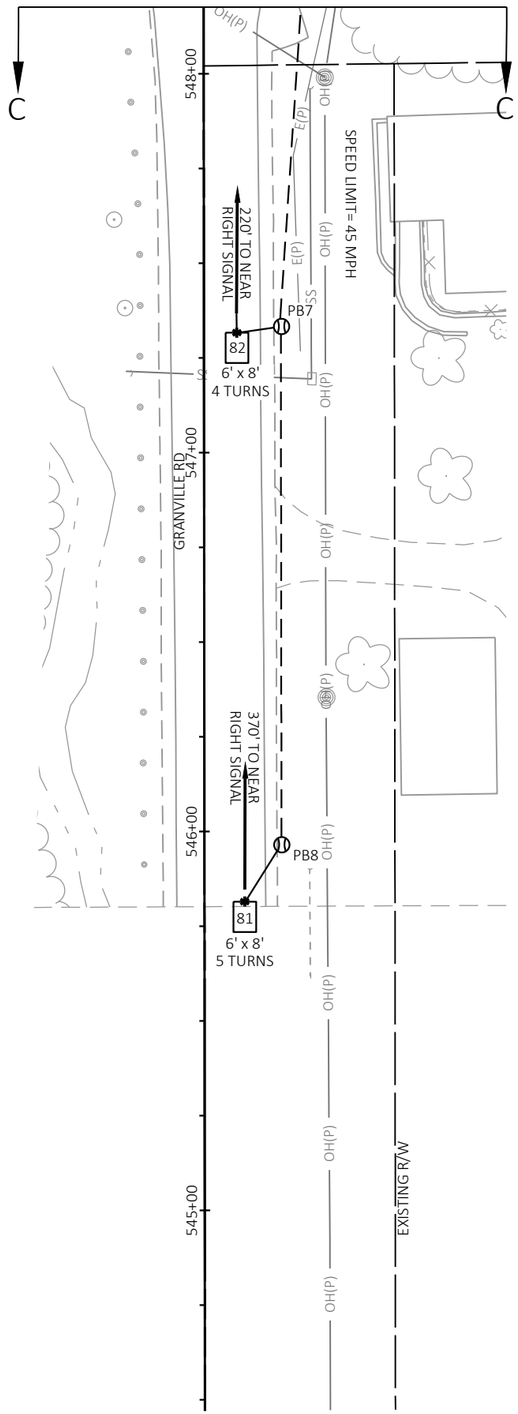
APPROVED
DATE 10/31/24 STATE TRAFFIC ENGINEER

REGION CONTACT: J. BRUGGEMAN
DESIGNED BY: KAPUR
REVISED BY:

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE/WASHINGTON	TRAFFIC SIGNAL PLAN	SHEET 111 E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\024202_SP.DWG
LAYOUT NAME - TS11-1
PLOT DATE : 2/14/2025 8:41 AM
PLOT BY : NEAL R. STYKA, P.E., PTOE, RSP1
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42





2

TRAFFIC CONTROL SIGNAL
STH 167 (MEQUON RD) & GRANVILLE RD
CITY OF MEQUON
OZAUKEE COUNTY

SIGNAL NO. S45-0887

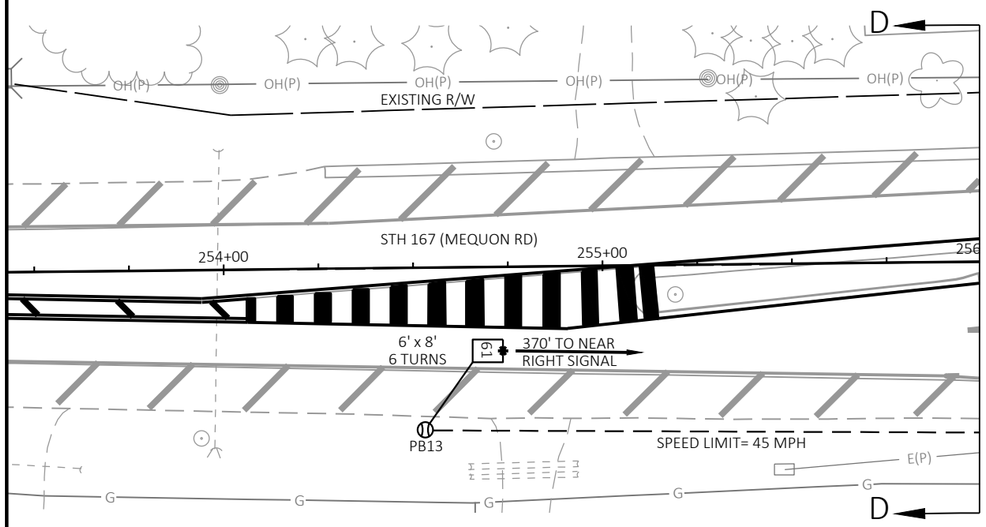
REGION CONTACT: J. BRUGGEMAN
DESIGNED BY: KAPUR
REVISED BY:

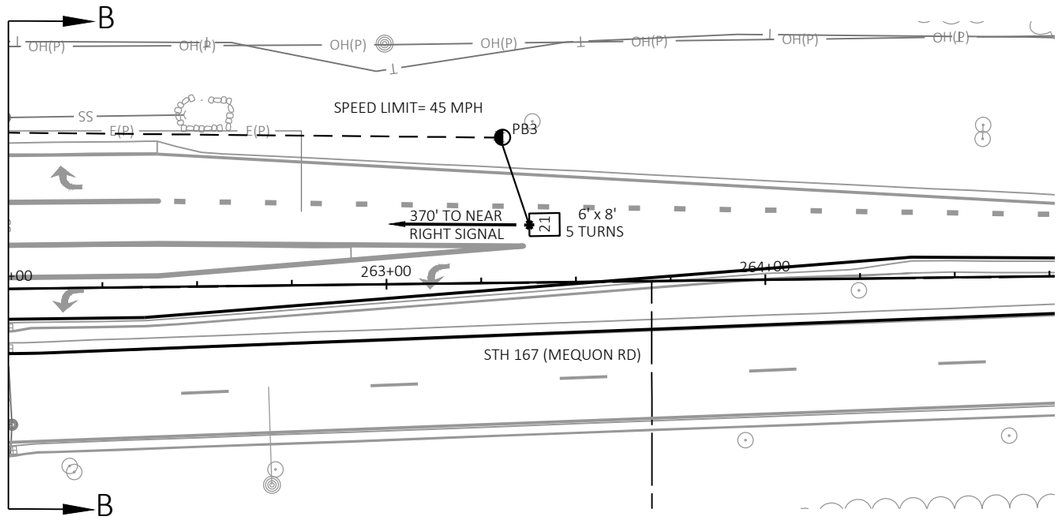
PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE/WASHINGTON	TRAFFIC SIGNAL PLAN	SHEET 112	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\024202_SP.DWG
LAYOUT NAME - TS11-2
PLOT DATE : 2/14/2025 8:42 AM
PLOT BY : NEAL R. STYKA, P.E., PTOE, RSP3
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N





TRAFFIC CONTROL SIGNAL
STH 167 (MEQUON RD) & GRANVILLE RD
CITY OF MEQUON
OZAUKEE COUNTY

SIGNAL NO. S45-0887

REGION CONTACT: J. BRUGGEMAN
DESIGNED BY: KAPUR
REVISED BY:

PAGE 03 OF 04

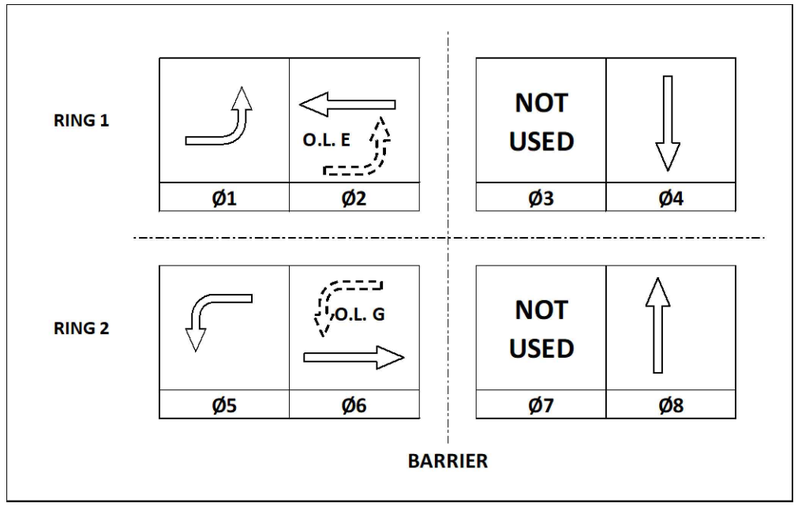
PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE/WASHINGTON	TRAFFIC SIGNAL PLAN	SHEET 113	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\024202_SP.DWG
LAYOUT NAME - TS11-3

PLOT DATE : 2/14/2025 8:43 AM PLOT BY : NEAL R. STYKA, P.E., PTOE, RSP3 PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	4,5,6	R ←
Ø2	7,8,9	R
Ø3		
Ø4	16,17,18	R
Ø5	10,11,12	R ←
Ø6	1,2,3	R
Ø7		
Ø8	13,14,15	R
Ø2P		
Ø4P		
Ø6P		
Ø8P		
OLE	4,5,6	-
OLF		
OLG	10,11,12	-
OLH		



EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT	←	→	↓	↑
PHASE	2+5	1+6	4	8

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4 OR 8, CONTROLLER SHALL RETURN TO PHASES 4+8.

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		
4		8		X
5		2		X
6	X	2	MIN	X
7		4		
8		4		X

N

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	X
CELL MODEM	

TYPE OF COORDINATION	
NONE	X
TBC	
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-

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

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

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13	19	17	23	21	27	25	31	29	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	11	21	41	43	45	52	62	82	84								PLAN LOOP DETECTOR*(S)
CALLED PHASE	6	2	4	4	4	5	6	8	8								CALLED PHASE
CALL OPTION	X	X		X	X	X	X		X								CALL OPTION
DELAY TIME					X				X								DELAY TIME
EXTENTION OPTION	X	X	X	X	X	X	X	X	X								EXTENTION OPTION
EXTEND TIME			X					X									EXTEND TIME
USE ADDED INITIAL	X	X					X										USE ADDED INITIAL
CROSS SWITCH PHASE						6											CROSS SWITCH PHASE

DETECTOR INPUT	4	2	8	6	12	10	16	14	20	18	24	22	28	26	32	30	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	12	22	42	44	51	61	81	83									PLAN LOOP DETECTOR*(S)
CALLED PHASE	6	2	4	4	5	6	8	8									CALLED PHASE
CALL OPTION	X	X		X	X	X		X									CALL OPTION
DELAY TIME				X													DELAY TIME
EXTENTION OPTION	X	X	X	X	X	X	X	X									EXTENTION OPTION
EXTEND TIME			X				X										EXTEND TIME
USE ADDED INITIAL	X	X				X											USE ADDED INITIAL
CROSS SWITCH PHASE					6												CROSS SWITCH PHASE

STH 167 (MEQUON RD) & GRANVILLE RD
CITY OF MEQUON
OZAUKEE COUNTY

SIGNAL NO: S45-0887 CABINET TYPE: TS2-E
CONTROLLER TYPE: ECONOLITE
DATE: 10/2024 PAGE NUMBER: 04 OF 04

PROJECT NO: 1380-02-70 | HWY: STH 167 | COUNTY: OZAUKEE | SEQUENCE OF OPERATIONS | SHEET 114 | E

PROJECT ID:	1380-02-70
INTERSECTION:	STH 167 (MEQUON RD) & GRANVILLE RD

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

CB1 TO	NO. OF CONDUCTORS	HEAD NO.	RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	FLASHING <YELLOW>	D/WALK	WALK	PED NEUTRAL	OTHER
SB1	12	5				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		7	RED	ORANGE	GREEN								
SB2	12	10				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
SB3	15	2	RED	ORANGE	GREEN								
		6				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		17	RED/WHT	BLU/WHT	GRN/WHT								
SB4	12	3	RED	ORANGE	GREEN								
		13	RED/BLK	ORG/BLK	GRN/BLK								
SB5	12	18	RED	ORANGE	GREEN								
SB6	12	1	RED	ORANGE	GREEN								
		11				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
SB7	12	4				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
SB8	12	8	RED	ORANGE	GREEN								
		9	RED	ORANGE	GREEN								
		12				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
SB9	12	14	RED	ORANGE	GREEN								
		16	RED/BLK	ORG/BLK	GRN/BLK								
SB10	12	15	RED	ORANGE	GREEN								

NOTES:

1. USE 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 ON TERMINAL FROM THE PEDESTRIAN PUSH BUTTONS TO THE COLOR INDICATED IN THE CHART. CONNECT THE OTHER TERMINAL TO THE GROUNDED CONDUCTOR.

(CONTINUED ON NEXT SHEET)

2

(CONTINUED)

EQUIPMENT GROUNDING CONDUCTOR 10 AWG GRN XLP	
FROM	TO
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	CB1

PULL BOX BONDING JUMPER 10 AWG GRN XLP	
FROM	TO
PB1	CB1
PB4	SB2
PB5	SB2
PB6	SB4
PB9	SB4
PB10	SB5
PB11	SB6
PB14	SB7
PB15	SB8
PB16	SB9
PB19	CB1

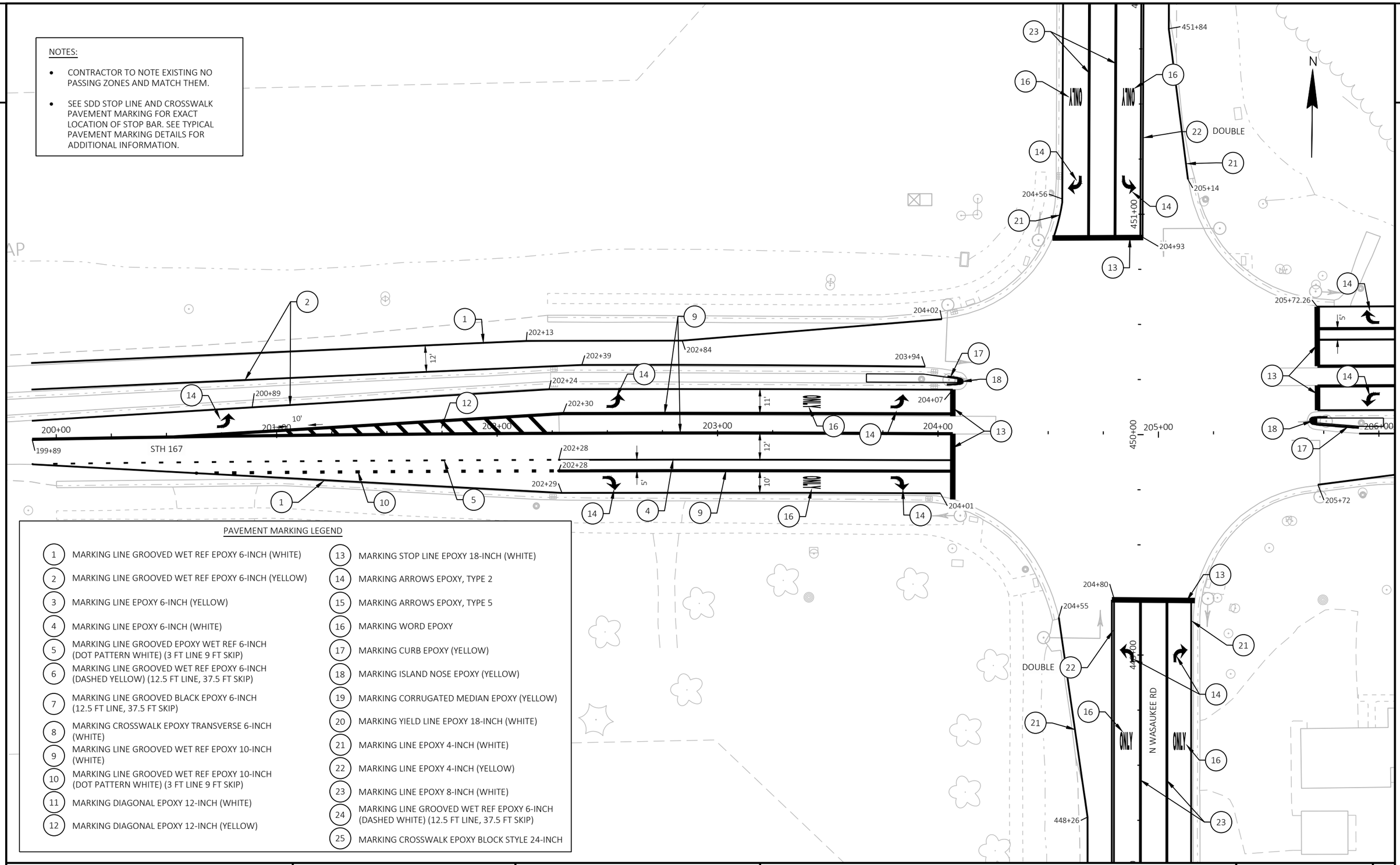
EMERGENCY VEHICLE PREEMPTION	
FROM	TO
CB1	SB8 (HEAD A)
CB1	SB3 (HEAD B)
CB1	SB5 (HEAD C)
CB1	SB10 (HEAD D)

LIGHTING UF #12 W/ GROUND	
FROM	TO
CB1	SB2
SB2	SB5
SB10	SB7
CB1	SB10

PAGE 2 OF 2

NOTES:

- CONTRACTOR TO NOTE EXISTING NO PASSING ZONES AND MATCH THEM.
- SEE SDD STOP LINE AND CROSSWALK PAVEMENT MARKING FOR EXACT LOCATION OF STOP BAR. SEE TYPICAL PAVEMENT MARKING DETAILS FOR ADDITIONAL INFORMATION.



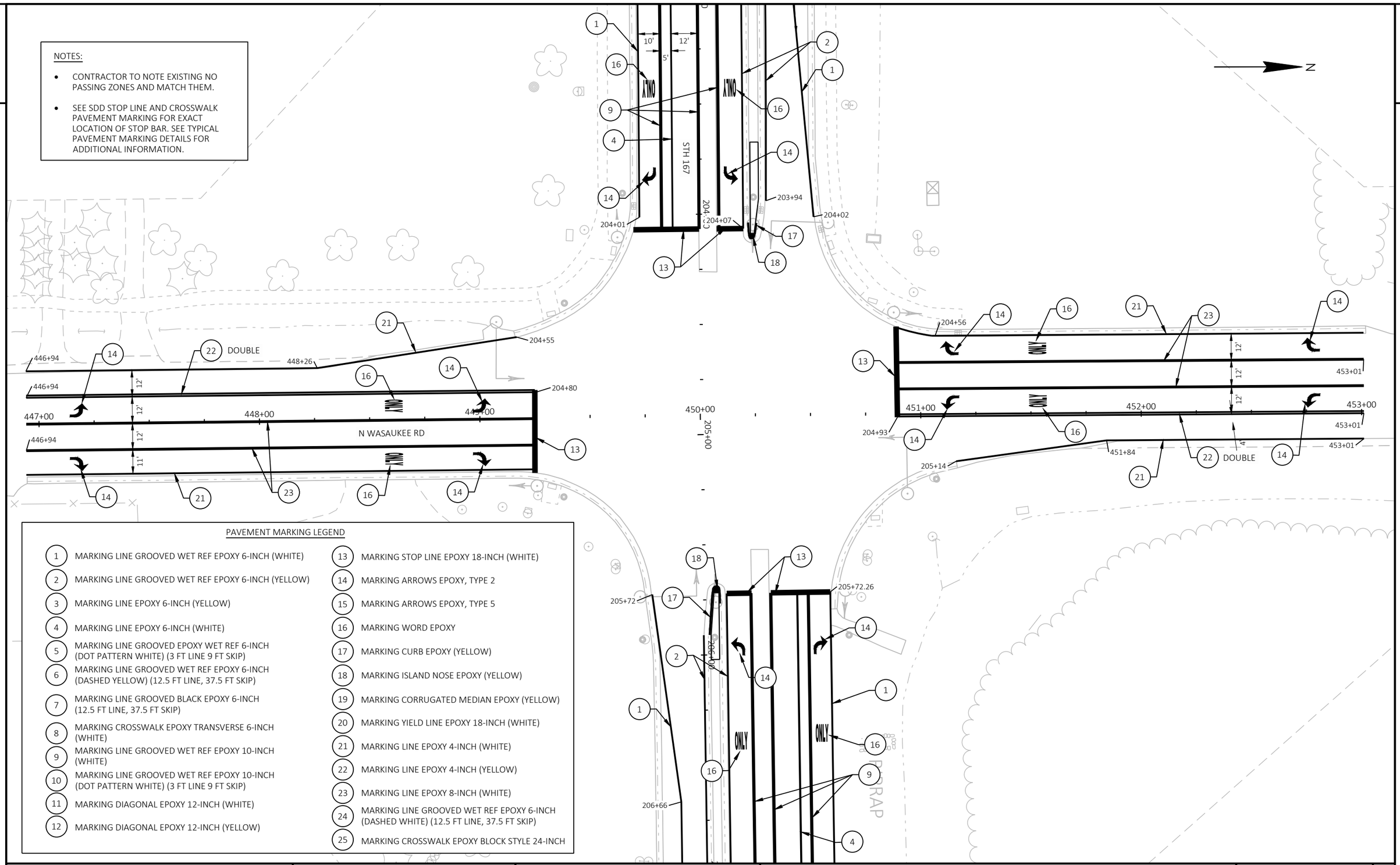
PAVEMENT MARKING LEGEND

1 MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)	13 MARKING STOP LINE EPOXY 18-INCH (WHITE)
2 MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)	14 MARKING ARROWS EPOXY, TYPE 2
3 MARKING LINE EPOXY 6-INCH (YELLOW)	15 MARKING ARROWS EPOXY, TYPE 5
4 MARKING LINE EPOXY 6-INCH (WHITE)	16 MARKING WORD EPOXY
5 MARKING LINE GROOVED EPOXY WET REF 6-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)	17 MARKING CURB EPOXY (YELLOW)
6 MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)	18 MARKING ISLAND NOSE EPOXY (YELLOW)
7 MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5 FT LINE, 37.5 FT SKIP)	19 MARKING CORRUGATED MEDIAN EPOXY (YELLOW)
8 MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH (WHITE)	20 MARKING YIELD LINE EPOXY 18-INCH (WHITE)
9 MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)	21 MARKING LINE EPOXY 4-INCH (WHITE)
10 MARKING LINE GROOVED WET REF EPOXY 10-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)	22 MARKING LINE EPOXY 4-INCH (YELLOW)
11 MARKING DIAGONAL EPOXY 12-INCH (WHITE)	23 MARKING LINE EPOXY 8-INCH (WHITE)
12 MARKING DIAGONAL EPOXY 12-INCH (YELLOW)	24 MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)
	25 MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PAVEMENT MARKING	SHEET 117	E

NOTES:

- CONTRACTOR TO NOTE EXISTING NO PASSING ZONES AND MATCH THEM.
- SEE SDD STOP LINE AND CROSSWALK PAVEMENT MARKING FOR EXACT LOCATION OF STOP BAR. SEE TYPICAL PAVEMENT MARKING DETAILS FOR ADDITIONAL INFORMATION.



PAVEMENT MARKING LEGEND

1	MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)	13	MARKING STOP LINE EPOXY 18-INCH (WHITE)
2	MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)	14	MARKING ARROWS EPOXY, TYPE 2
3	MARKING LINE EPOXY 6-INCH (YELLOW)	15	MARKING ARROWS EPOXY, TYPE 5
4	MARKING LINE EPOXY 6-INCH (WHITE)	16	MARKING WORD EPOXY
5	MARKING LINE GROOVED EPOXY WET REF 6-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)	17	MARKING CURB EPOXY (YELLOW)
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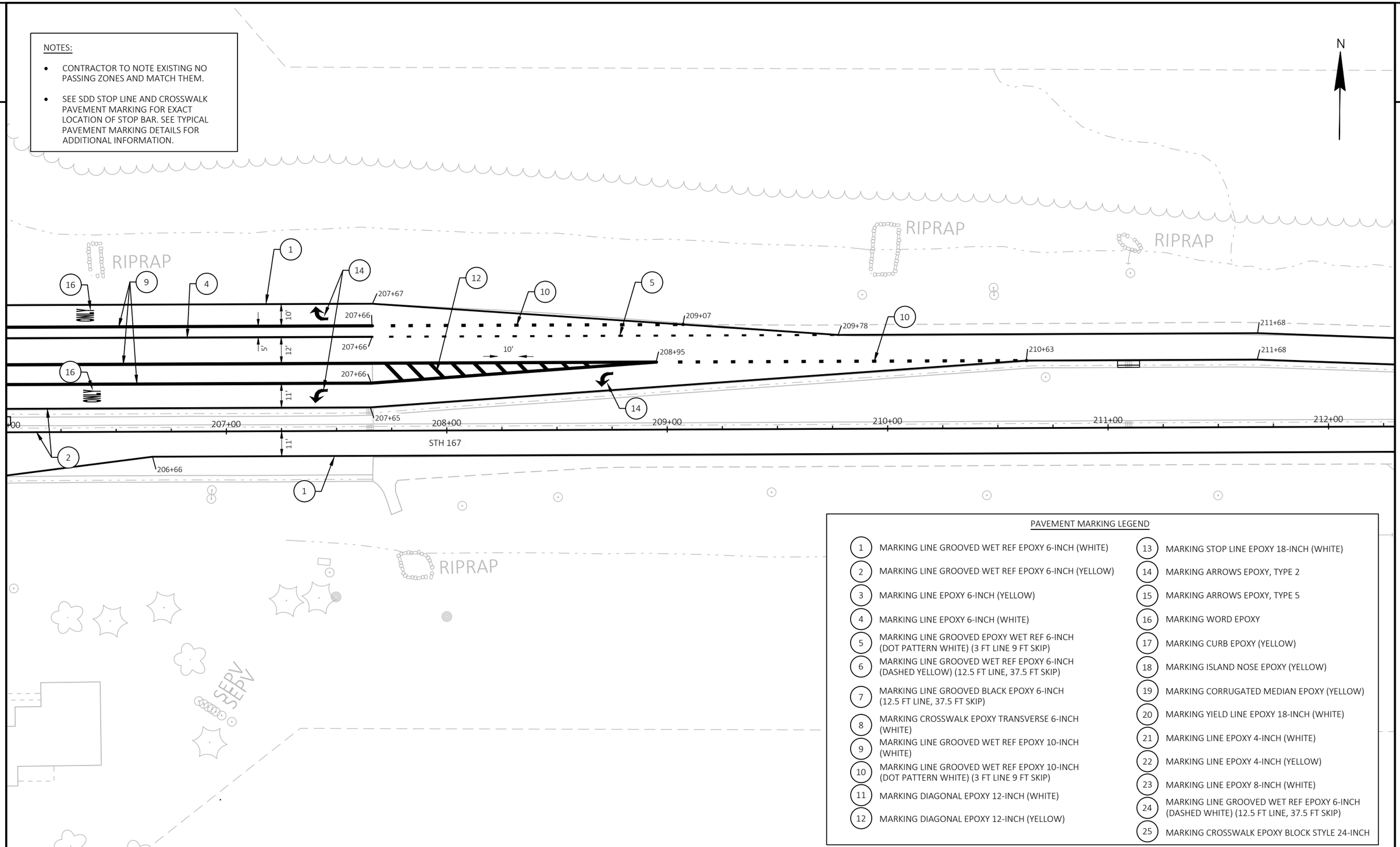
8	MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH (WHITE)	20	MARKING YIELD LINE EPOXY 18-INCH (WHITE)
9	MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)	21	MARKING LINE EPOXY 4-INCH (WHITE)
10	MARKING LINE GROOVED WET REF EPOXY 10-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)	22	MARKING LINE EPOXY 4-INCH (YELLOW)
11	MARKING DIAGONAL EPOXY 12-INCH (WHITE)	23	MARKING LINE EPOXY 8-INCH (WHITE)
12	MARKING DIAGONAL EPOXY 12-INCH (YELLOW)	24	MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)
		25	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH

NOTES:

- CONTRACTOR TO NOTE EXISTING NO PASSING ZONES AND MATCH THEM.
- SEE SDD STOP LINE AND CROSSWALK PAVEMENT MARKING FOR EXACT LOCATION OF STOP BAR. SEE TYPICAL PAVEMENT MARKING DETAILS FOR ADDITIONAL INFORMATION.



PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2. MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
3. MARKING LINE EPOXY 6-INCH (YELLOW)
4. MARKING LINE EPOXY 6-INCH (WHITE)
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11. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
12. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
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15. MARKING ARROWS EPOXY, TYPE 5
16. MARKING WORD EPOXY
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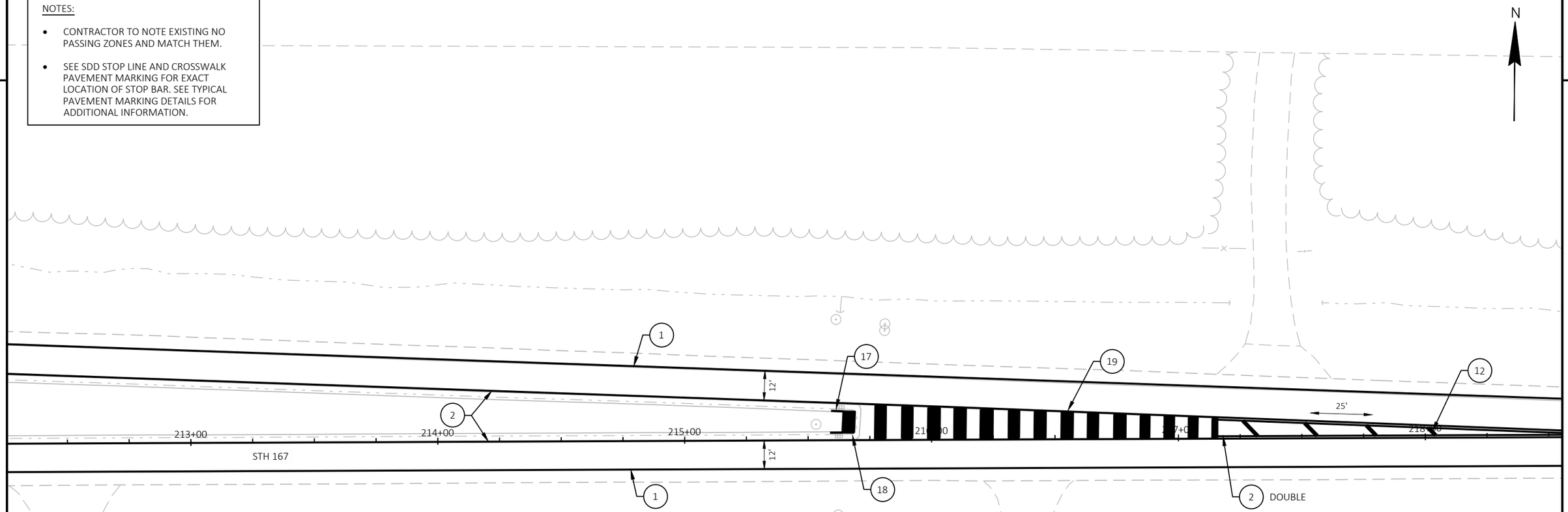
19. MARKING CORRUGATED MEDIAN EPOXY (YELLOW)
20. MARKING YIELD LINE EPOXY 18-INCH (WHITE)
21. MARKING LINE EPOXY 4-INCH (WHITE)
22. MARKING LINE EPOXY 4-INCH (YELLOW)
23. MARKING LINE EPOXY 8-INCH (WHITE)
24. MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)
25. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PAVEMENT MARKING	SHEET 119	E

NOTES:

- CONTRACTOR TO NOTE EXISTING NO PASSING ZONES AND MATCH THEM.
- SEE SDD STOP LINE AND CROSSWALK PAVEMENT MARKING FOR EXACT LOCATION OF STOP BAR. SEE TYPICAL PAVEMENT MARKING DETAILS FOR ADDITIONAL INFORMATION.



PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
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25. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PAVEMENT MARKING	SHEET 120	E

FILE NAME : N:\PDS\C3D\13800200\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 04
PLOT DATE : 2/19/2025 9:53 AM
PLOT BY : DE JESUS ORTIZ, N
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

NOTES:

- CONTRACTOR TO NOTE EXISTING NO PASSING ZONES AND MATCH THEM.
- SEE SDD STOP LINE AND CROSSWALK PAVEMENT MARKING FOR EXACT LOCATION OF STOP BAR. SEE TYPICAL PAVEMENT MARKING DETAILS FOR ADDITIONAL INFORMATION.

N

RIPRAP

DOUBLE

219+35

219+00

218+97

220+00

221+00

222+00

223+00

224+00

224+29

12'

12'

STH 167

RIPRAP

RIPRAP

DAM

PAVEMENT MARKING LEGEND

1	MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2	MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
3	MARKING LINE EPOXY 6-INCH (YELLOW)
4	MARKING LINE EPOXY 6-INCH (WHITE)
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25	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PAVEMENT MARKING	SHEET 121 E

FILE NAME : N:\PDS\C3D\13800200\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 05

PLOT DATE : 2/19/2025 9:53 AM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

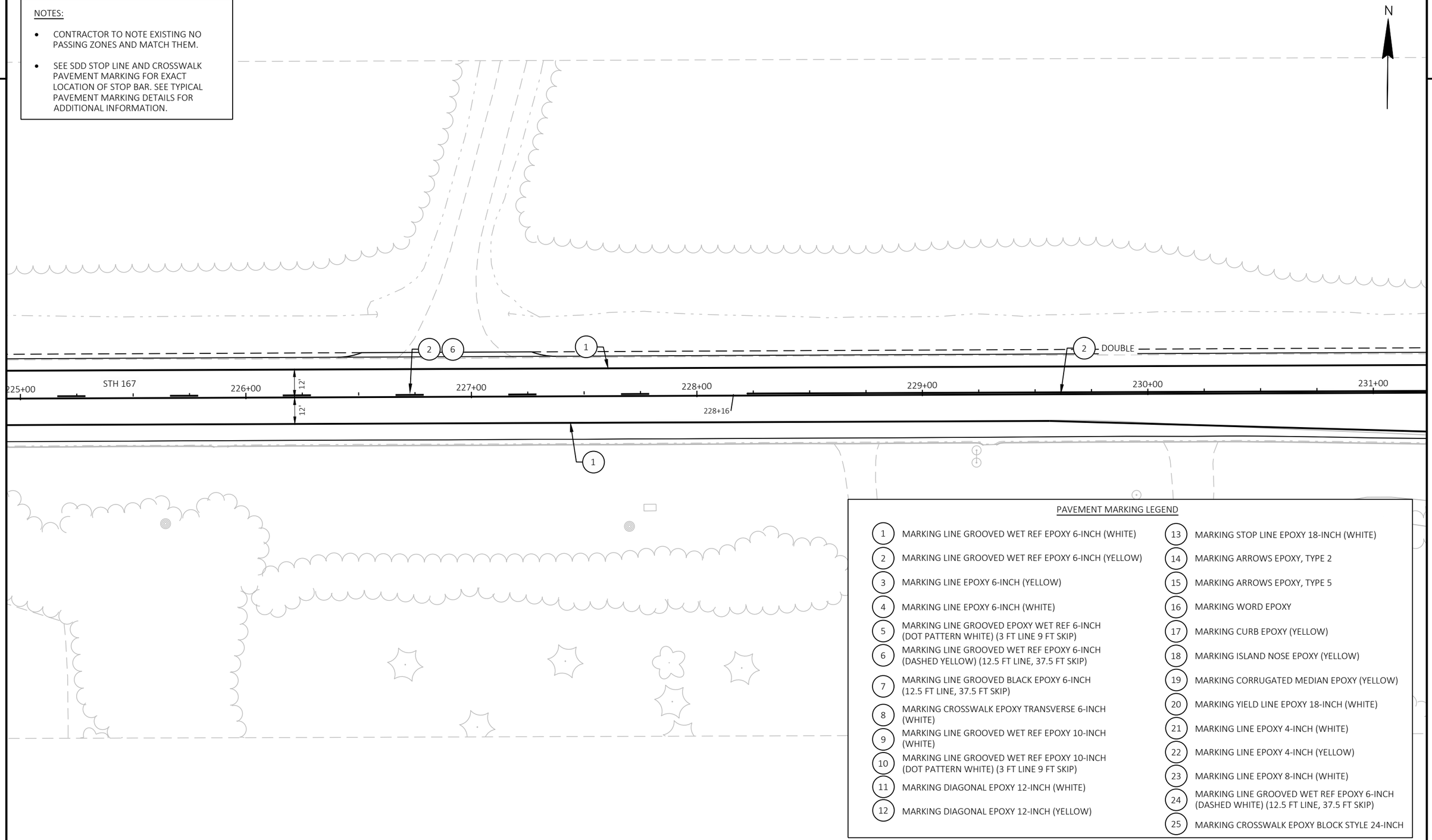
2

NOTES:

- CONTRACTOR TO NOTE EXISTING NO PASSING ZONES AND MATCH THEM.
- SEE SDD STOP LINE AND CROSSWALK PAVEMENT MARKING FOR EXACT LOCATION OF STOP BAR. SEE TYPICAL PAVEMENT MARKING DETAILS FOR ADDITIONAL INFORMATION.

N

2



PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2. MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
3. MARKING LINE EPOXY 6-INCH (YELLOW)
4. MARKING LINE EPOXY 6-INCH (WHITE)
5. MARKING LINE GROOVED EPOXY WET REF 6-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
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19. MARKING CORRUGATED MEDIAN EPOXY (YELLOW)
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21. MARKING LINE EPOXY 4-INCH (WHITE)
22. MARKING LINE EPOXY 4-INCH (YELLOW)
23. MARKING LINE EPOXY 8-INCH (WHITE)
24. MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)
25. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PAVEMENT MARKING	SHEET 122	E

NOTES:

- CONTRACTOR TO NOTE EXISTING NO PASSING ZONES AND MATCH THEM.
- SEE SDD STOP LINE AND CROSSWALK PAVEMENT MARKING FOR EXACT LOCATION OF STOP BAR. SEE TYPICAL PAVEMENT MARKING DETAILS FOR ADDITIONAL INFORMATION.

N

N ASHBURY WOODS DR

STH 167

1+00 232+00 233+00 234+00 235+00 236+00 237+00

232+90 233+16 233+10 233+99 234+32 234+34 234+47 234+55 234+60 235+31 236+32

12'

DOUBLE 2 DOUBLE 22 13 1 14 9 14 10 1 24 6

PAVEMENT MARKING LEGEND

1	MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)	13	MARKING STOP LINE EPOXY 18-INCH (WHITE)
2	MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)	14	MARKING ARROWS EPOXY, TYPE 2
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		25	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PAVEMENT MARKING	SHEET 123	E

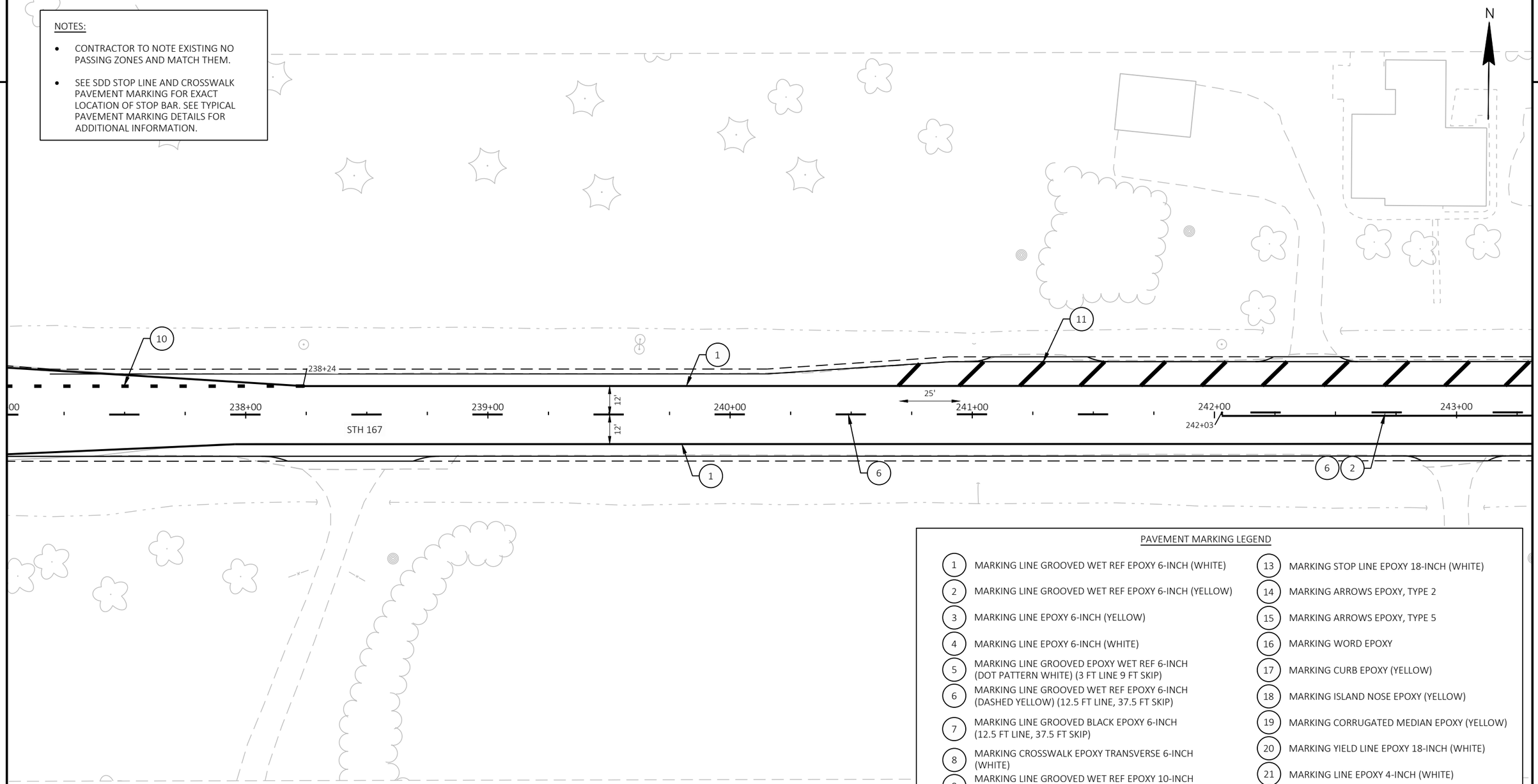
FILE NAME : N:\PDS\C3D\13800200\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 07

PLOT DATE : 2/19/2025 9:53 AM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

NOTES:

- CONTRACTOR TO NOTE EXISTING NO PASSING ZONES AND MATCH THEM.
- SEE SDD STOP LINE AND CROSSWALK PAVEMENT MARKING FOR EXACT LOCATION OF STOP BAR. SEE TYPICAL PAVEMENT MARKING DETAILS FOR ADDITIONAL INFORMATION.



PAVEMENT MARKING LEGEND

1	MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2	MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
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4	MARKING LINE EPOXY 6-INCH (WHITE)
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19	MARKING CORRUGATED MEDIAN EPOXY (YELLOW)
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24	MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)
25	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH

2

NOTES:

- CONTRACTOR TO NOTE EXISTING NO PASSING ZONES AND MATCH THEM.
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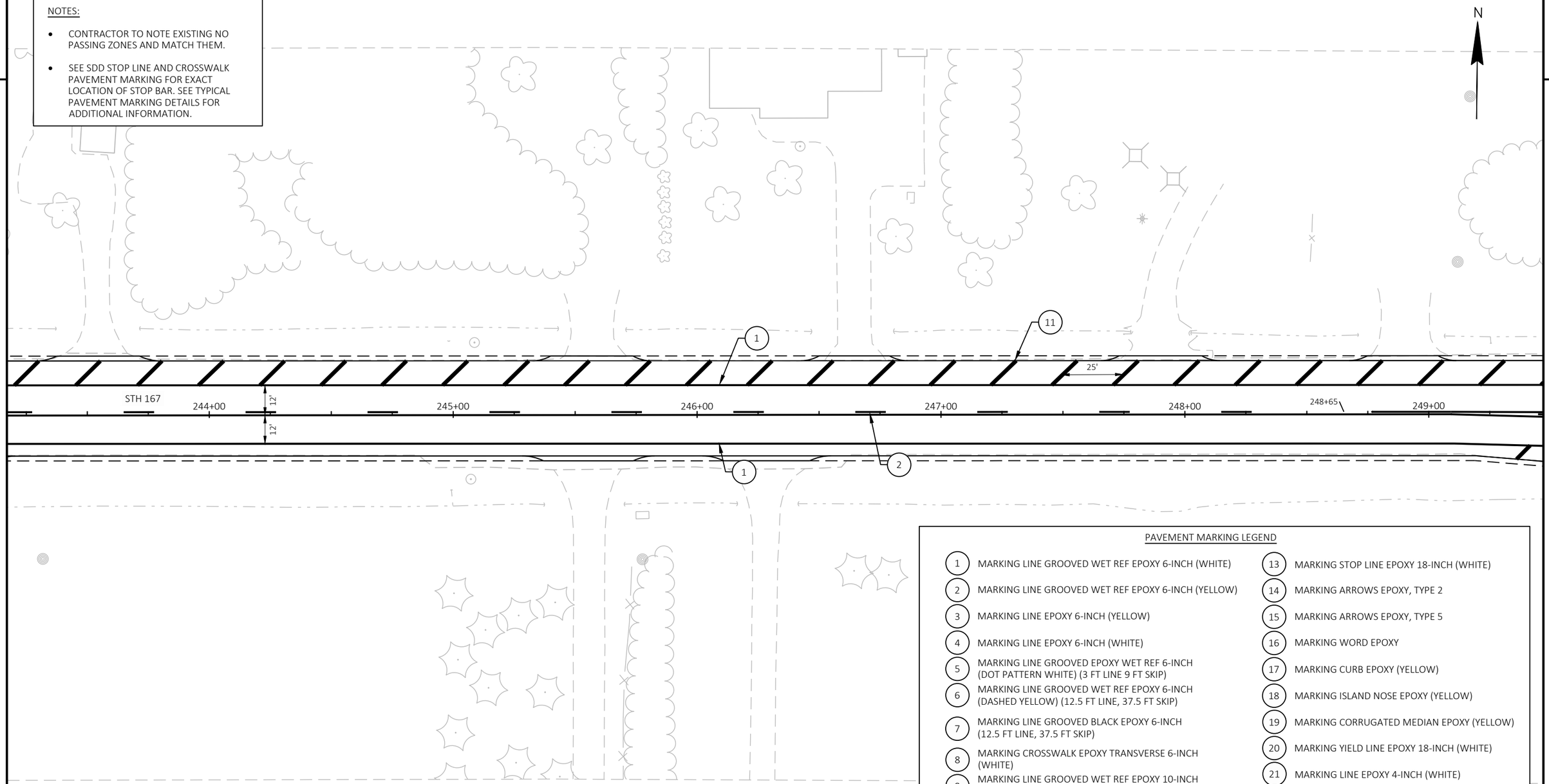

PAVEMENT MARKING LEGEND

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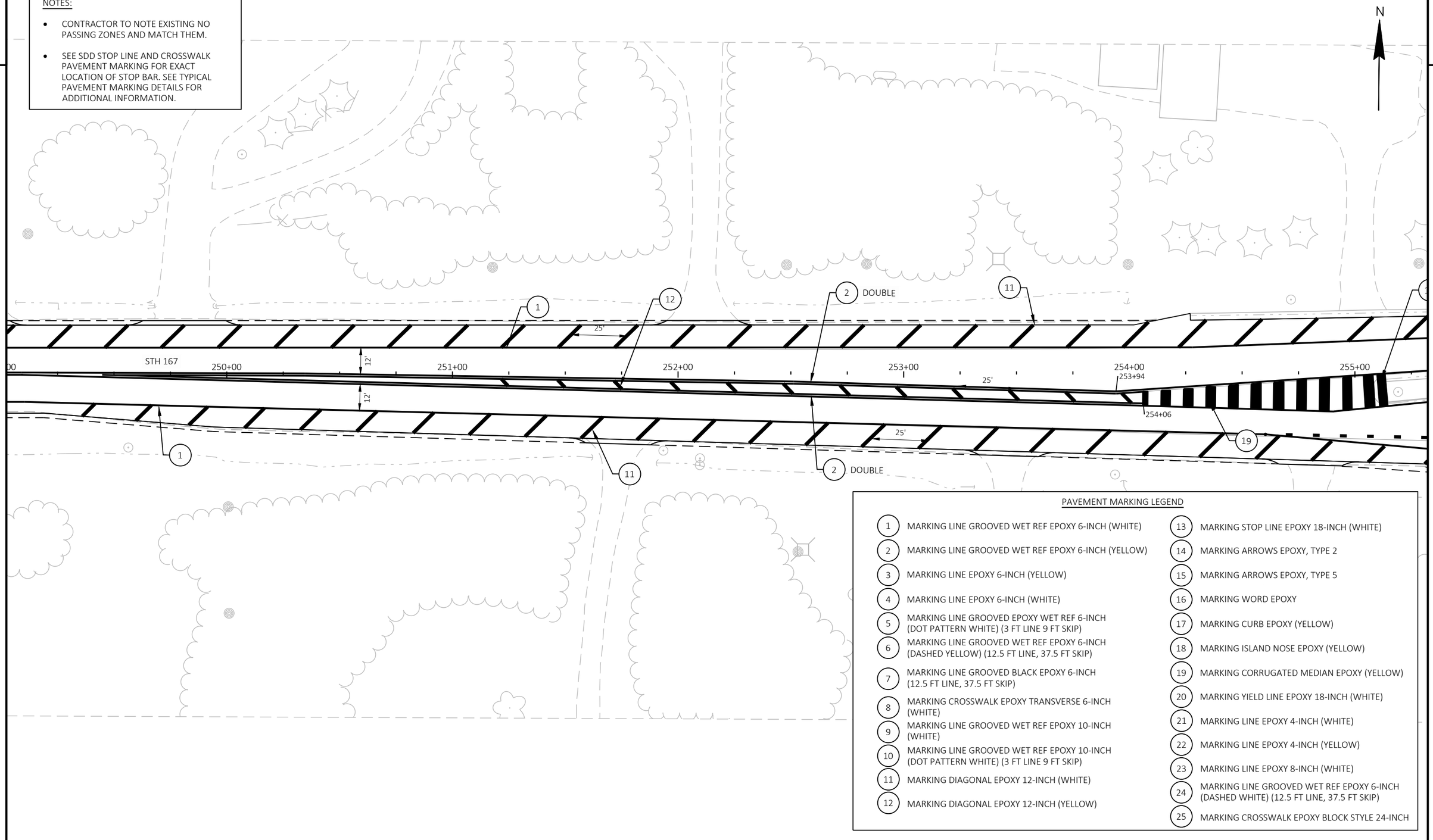
20	MARKING YIELD LINE EPOXY 18-INCH (WHITE)
21	MARKING LINE EPOXY 4-INCH (WHITE)
22	MARKING LINE EPOXY 4-INCH (YELLOW)
23	MARKING LINE EPOXY 8-INCH (WHITE)
24	MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)
25	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH

NOTES:

- CONTRACTOR TO NOTE EXISTING NO PASSING ZONES AND MATCH THEM.
- SEE SDD STOP LINE AND CROSSWALK PAVEMENT MARKING FOR EXACT LOCATION OF STOP BAR. SEE TYPICAL PAVEMENT MARKING DETAILS FOR ADDITIONAL INFORMATION.



PAVEMENT MARKING LEGEND

1	MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2	MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
3	MARKING LINE EPOXY 6-INCH (YELLOW)
4	MARKING LINE EPOXY 6-INCH (WHITE)
5	MARKING LINE GROOVED EPOXY WET REF 6-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
6	MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)
7	MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5 FT LINE, 37.5 FT SKIP)
8	MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH (WHITE)
9	MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)
10	MARKING LINE GROOVED WET REF EPOXY 10-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
11	MARKING DIAGONAL EPOXY 12-INCH (WHITE)
12	MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
13	MARKING STOP LINE EPOXY 18-INCH (WHITE)
14	MARKING ARROWS EPOXY, TYPE 2
15	MARKING ARROWS EPOXY, TYPE 5
16	MARKING WORD EPOXY
17	MARKING CURB EPOXY (YELLOW)
18	MARKING ISLAND NOSE EPOXY (YELLOW)
19	MARKING CORRUGATED MEDIAN EPOXY (YELLOW)
20	MARKING YIELD LINE EPOXY 18-INCH (WHITE)
21	MARKING LINE EPOXY 4-INCH (WHITE)
22	MARKING LINE EPOXY 4-INCH (YELLOW)
23	MARKING LINE EPOXY 8-INCH (WHITE)
24	MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)
25	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PAVEMENT MARKING	SHEET 126	E

NOTES:

- CONTRACTOR TO NOTE EXISTING NO PASSING ZONES AND MATCH THEM.
- SEE SDD STOP LINE AND CROSSWALK PAVEMENT MARKING FOR EXACT LOCATION OF STOP BAR. SEE TYPICAL PAVEMENT MARKING DETAILS FOR ADDITIONAL INFORMATION.

PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2. MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
3. MARKING LINE EPOXY 6-INCH (YELLOW)
4. MARKING LINE EPOXY 6-INCH (WHITE)
5. MARKING LINE GROOVED EPOXY WET REF 6-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
6. MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)
7. MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5 FT LINE, 37.5 FT SKIP)
8. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH (WHITE)
9. MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)
10. MARKING LINE GROOVED WET REF EPOXY 10-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
11. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
12. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
13. MARKING STOP LINE EPOXY 18-INCH (WHITE)
14. MARKING ARROWS EPOXY, TYPE 2
15. MARKING ARROWS EPOXY, TYPE 5
16. MARKING WORD EPOXY
17. MARKING CURB EPOXY (YELLOW)
18. MARKING ISLAND NOSE EPOXY (YELLOW)
19. MARKING CORRUGATED MEDIAN EPOXY (YELLOW)
20. MARKING YIELD LINE EPOXY 18-INCH (WHITE)
21. MARKING LINE EPOXY 4-INCH (WHITE)
22. MARKING LINE EPOXY 4-INCH (YELLOW)
23. MARKING LINE EPOXY 8-INCH (WHITE)
24. MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)
25. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PAVEMENT MARKING	SHEET 127 E

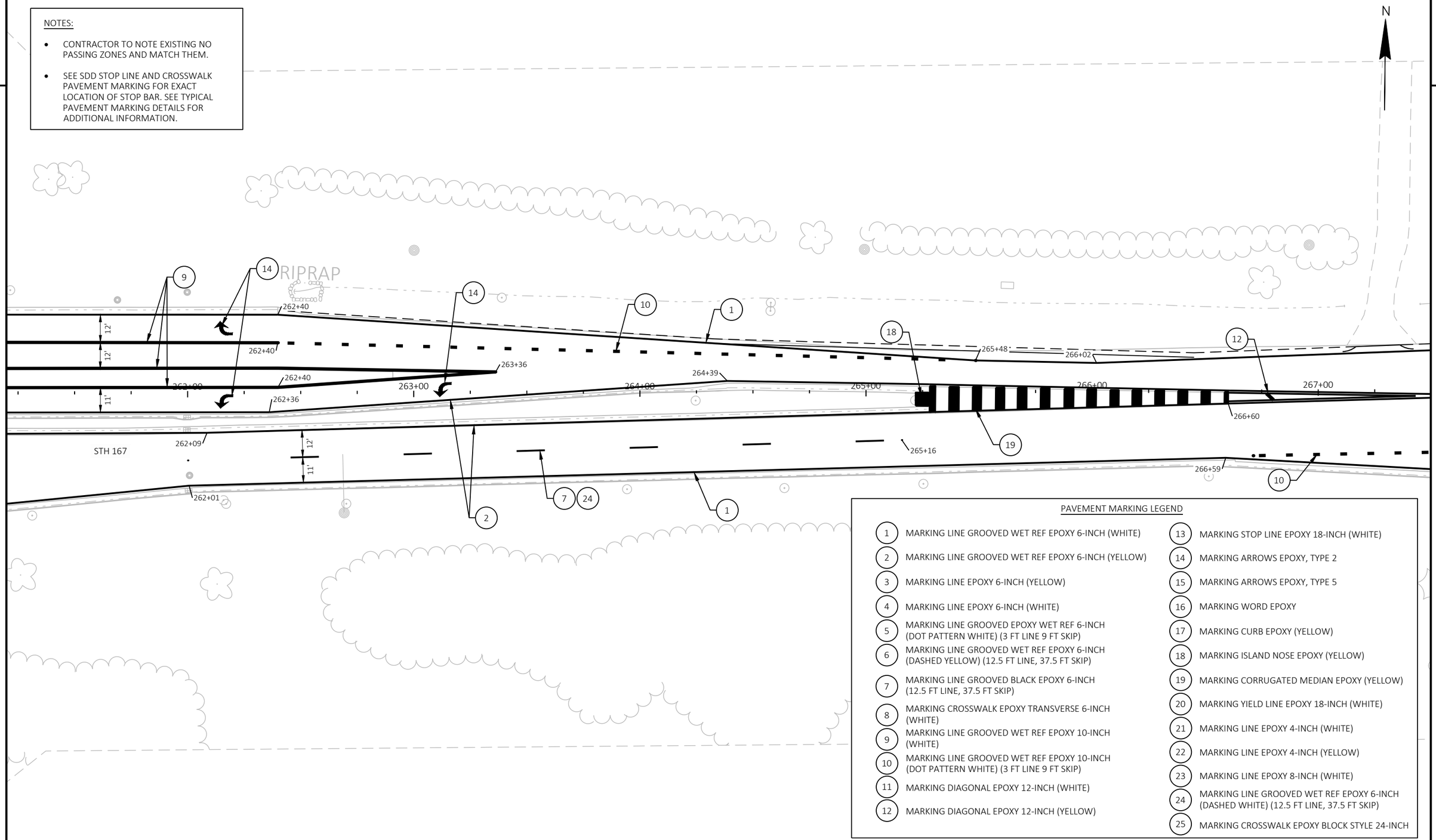
FILE NAME : N:\PDS\C3D\13800200\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 11

PLOT DATE : 2/19/2025 9:54 AM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

NOTES:

- CONTRACTOR TO NOTE EXISTING NO PASSING ZONES AND MATCH THEM.
- SEE SDD STOP LINE AND CROSSWALK PAVEMENT MARKING FOR EXACT LOCATION OF STOP BAR. SEE TYPICAL PAVEMENT MARKING DETAILS FOR ADDITIONAL INFORMATION.



PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2. MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
3. MARKING LINE EPOXY 6-INCH (YELLOW)
4. MARKING LINE EPOXY 6-INCH (WHITE)
5. MARKING LINE GROOVED EPOXY WET REF 6-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
6. MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)
7. MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5 FT LINE, 37.5 FT SKIP)
8. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH (WHITE)
9. MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)
10. MARKING LINE GROOVED WET REF EPOXY 10-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
11. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
12. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
13. MARKING STOP LINE EPOXY 18-INCH (WHITE)
14. MARKING ARROWS EPOXY, TYPE 2
15. MARKING ARROWS EPOXY, TYPE 5
16. MARKING WORD EPOXY
17. MARKING CURB EPOXY (YELLOW)
18. MARKING ISLAND NOSE EPOXY (YELLOW)
19. MARKING CORRUGATED MEDIAN EPOXY (YELLOW)
20. MARKING YIELD LINE EPOXY 18-INCH (WHITE)
21. MARKING LINE EPOXY 4-INCH (WHITE)
22. MARKING LINE EPOXY 4-INCH (YELLOW)
23. MARKING LINE EPOXY 8-INCH (WHITE)
24. MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)
25. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PAVEMENT MARKING	SHEET 128	E

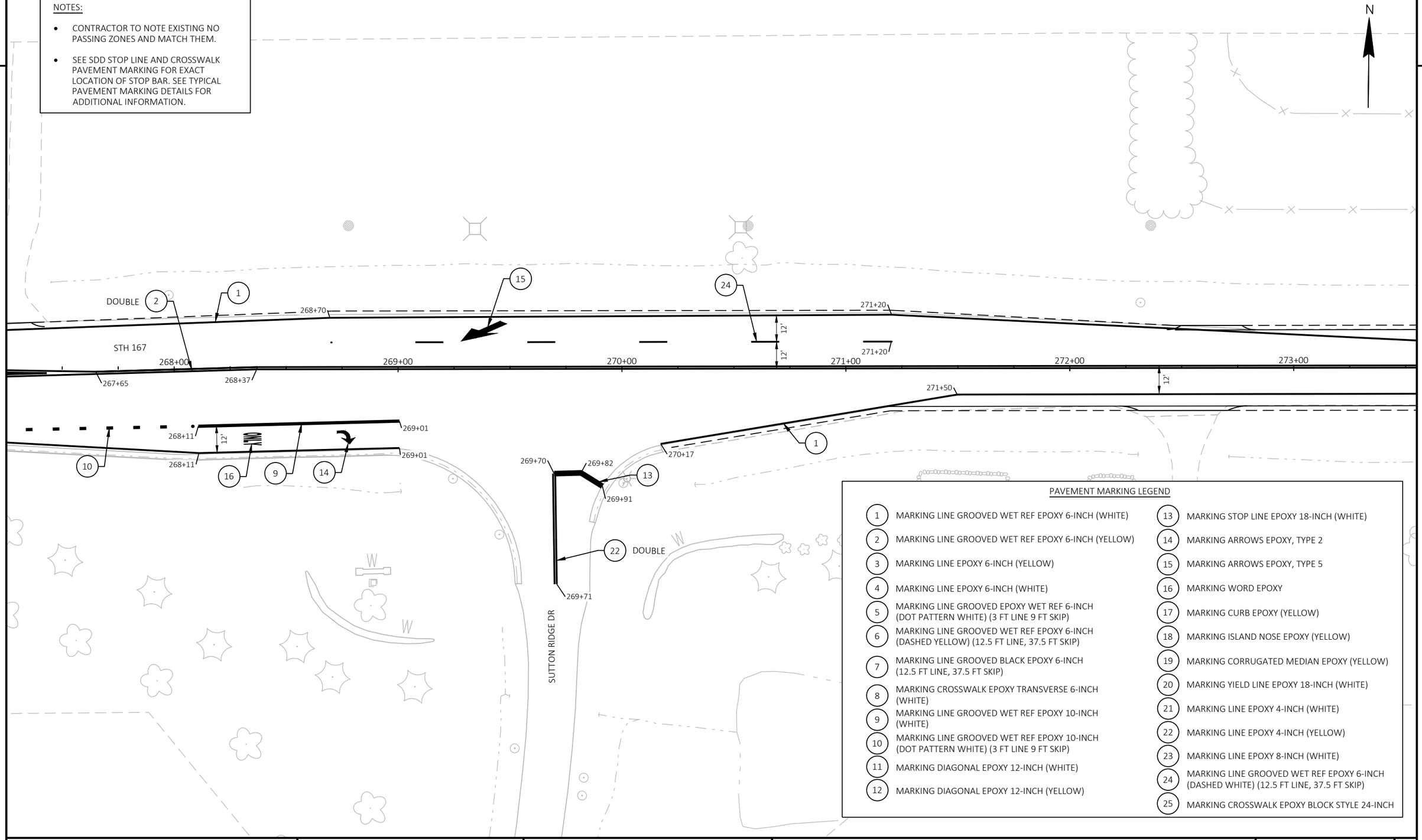
FILE NAME : N:\PDS\C3D\13800200\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 12

PLOT DATE : 2/19/2025 9:54 AM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

NOTES:

- CONTRACTOR TO NOTE EXISTING NO PASSING ZONES AND MATCH THEM.
- SEE SDD STOP LINE AND CROSSWALK PAVEMENT MARKING FOR EXACT LOCATION OF STOP BAR. SEE TYPICAL PAVEMENT MARKING DETAILS FOR ADDITIONAL INFORMATION.



PAVEMENT MARKING LEGEND

1	MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)	13	MARKING STOP LINE EPOXY 18-INCH (WHITE)
2	MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)	14	MARKING ARROWS EPOXY, TYPE 2
3	MARKING LINE EPOXY 6-INCH (YELLOW)	15	MARKING ARROWS EPOXY, TYPE 5
4	MARKING LINE EPOXY 6-INCH (WHITE)	16	MARKING WORD EPOXY
5	MARKING LINE GROOVED EPOXY WET REF 6-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)	17	MARKING CURB EPOXY (YELLOW)
6	MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)	18	MARKING ISLAND NOSE EPOXY (YELLOW)
7	MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5 FT LINE, 37.5 FT SKIP)	19	MARKING CORRUGATED MEDIAN EPOXY (YELLOW)
8	MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH (WHITE)	20	MARKING YIELD LINE EPOXY 18-INCH (WHITE)
9	MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)	21	MARKING LINE EPOXY 4-INCH (WHITE)
10	MARKING LINE GROOVED WET REF EPOXY 10-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)	22	MARKING LINE EPOXY 4-INCH (YELLOW)
11	MARKING DIAGONAL EPOXY 12-INCH (WHITE)	23	MARKING LINE EPOXY 8-INCH (WHITE)
12	MARKING DIAGONAL EPOXY 12-INCH (YELLOW)	24	MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)
		25	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PAVEMENT MARKING	SHEET 129	E

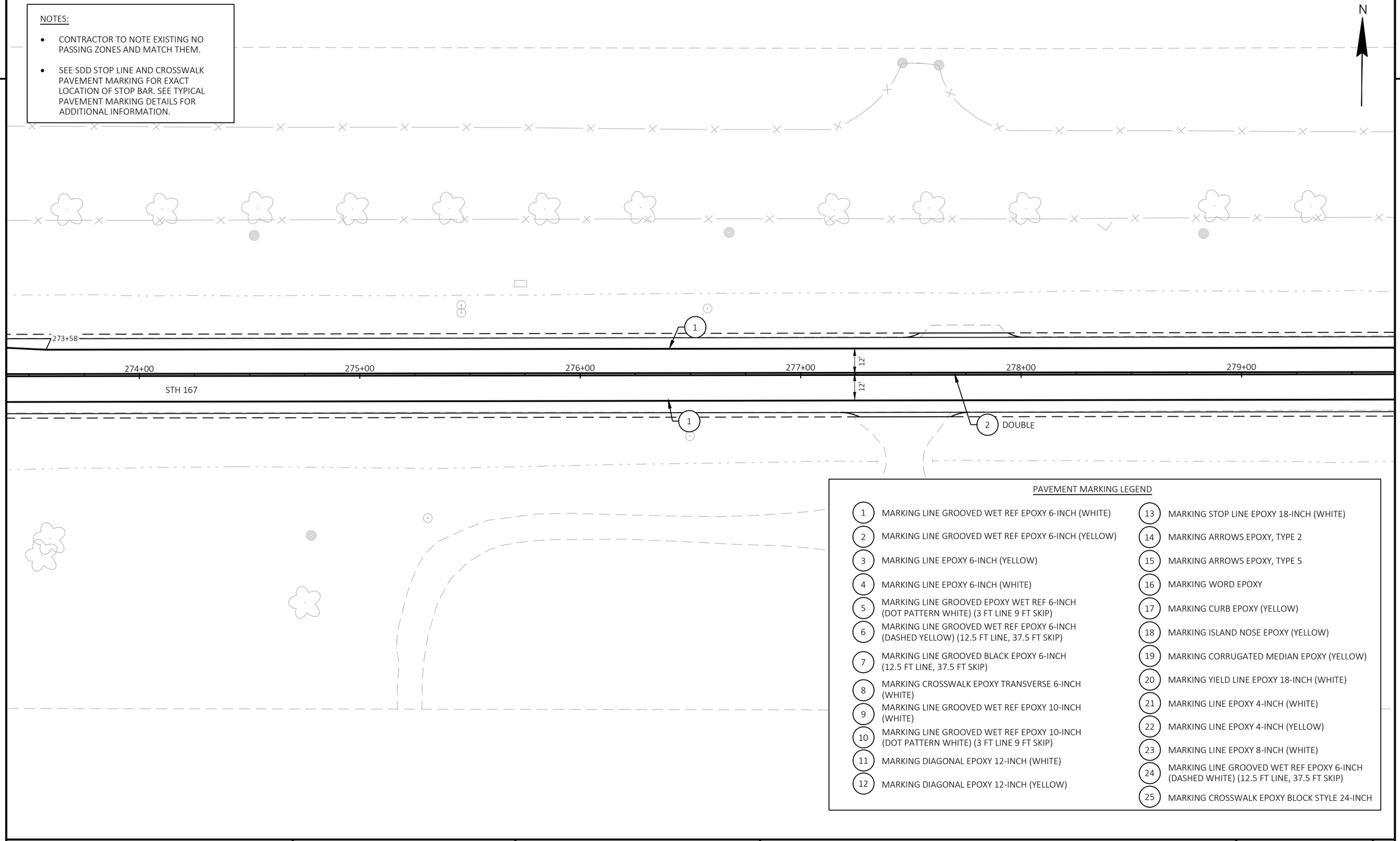
2

NOTES:

- CONTRACTOR TO NOTE EXISTING NO PASSING ZONES AND MATCH THEM.
- SEE SDD STOP LINE AND CROSSWALK PAVEMENT MARKING FOR EXACT LOCATION OF STOP BAR. SEE TYPICAL PAVEMENT MARKING DETAILS FOR ADDITIONAL INFORMATION.

N

2



PAVEMENT MARKING LEGEND

1	MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)	13	MARKING STOP LINE EPOXY 18-INCH (WHITE)
2	MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)	14	MARKING ARROWS EPOXY, TYPE 2
3	MARKING LINE EPOXY 6-INCH (YELLOW)	15	MARKING ARROWS EPOXY, TYPE 5
4	MARKING LINE EPOXY 6-INCH (WHITE)	16	MARKING WORD EPOXY
5	MARKING LINE GROOVED EPOXY WET REF 6-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)	17	MARKING CURB EPOXY (YELLOW)
6	MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)	18	MARKING ISLAND NOSE EPOXY (YELLOW)
7	MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5 FT LINE, 37.5 FT SKIP)	19	MARKING CORRUGATED MEDIAN EPOXY (YELLOW)
8	MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH (WHITE)	20	MARKING YIELD LINE EPOXY 18-INCH (WHITE)
9	MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)	21	MARKING LINE EPOXY 4-INCH (WHITE)
10	MARKING LINE GROOVED WET REF EPOXY 10-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)	22	MARKING LINE EPOXY 4-INCH (YELLOW)
11	MARKING DIAGONAL EPOXY 12-INCH (WHITE)	23	MARKING LINE EPOXY 8-INCH (WHITE)
12	MARKING DIAGONAL EPOXY 12-INCH (YELLOW)	24	MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)
		25	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PAVEMENT MARKING	SHEET 130	E

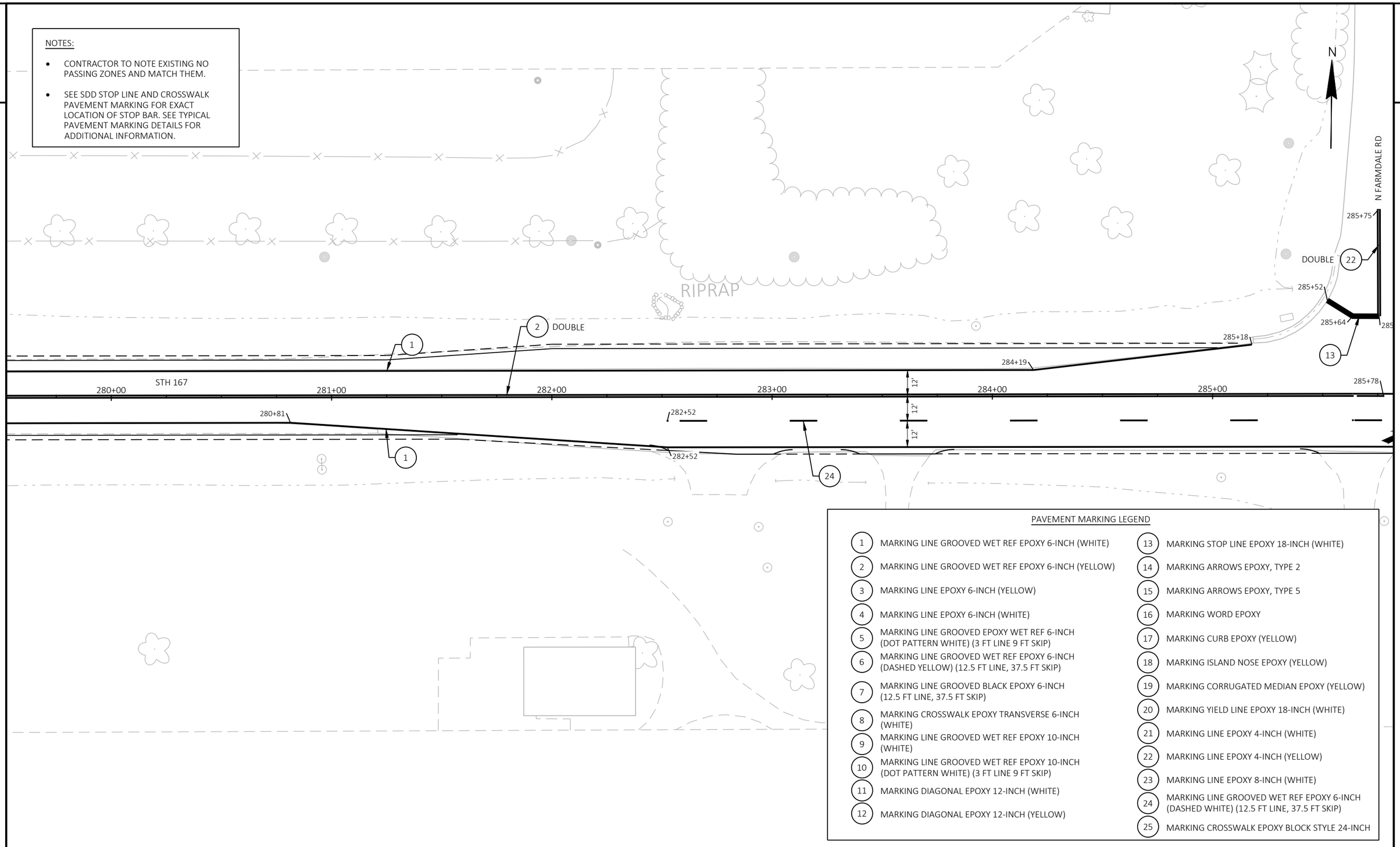
FILE NAME : N:\PDS\C3D\13800200\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 14

PLOT DATE : 2/19/2025 9:54 AM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

NOTES:

- CONTRACTOR TO NOTE EXISTING NO PASSING ZONES AND MATCH THEM.
- SEE SDD STOP LINE AND CROSSWALK PAVEMENT MARKING FOR EXACT LOCATION OF STOP BAR. SEE TYPICAL PAVEMENT MARKING DETAILS FOR ADDITIONAL INFORMATION.



PAVEMENT MARKING LEGEND

1	MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2	MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
3	MARKING LINE EPOXY 6-INCH (YELLOW)
4	MARKING LINE EPOXY 6-INCH (WHITE)
5	MARKING LINE GROOVED EPOXY WET REF 6-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
6	MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)
7	MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5 FT LINE, 37.5 FT SKIP)
8	MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH (WHITE)
9	MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)
10	MARKING LINE GROOVED WET REF EPOXY 10-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
11	MARKING DIAGONAL EPOXY 12-INCH (WHITE)
12	MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
13	MARKING STOP LINE EPOXY 18-INCH (WHITE)
14	MARKING ARROWS EPOXY, TYPE 2
15	MARKING ARROWS EPOXY, TYPE 5
16	MARKING WORD EPOXY
17	MARKING CURB EPOXY (YELLOW)
18	MARKING ISLAND NOSE EPOXY (YELLOW)
19	MARKING CORRUGATED MEDIAN EPOXY (YELLOW)
20	MARKING YIELD LINE EPOXY 18-INCH (WHITE)
21	MARKING LINE EPOXY 4-INCH (WHITE)
22	MARKING LINE EPOXY 4-INCH (YELLOW)
23	MARKING LINE EPOXY 8-INCH (WHITE)
24	MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)
25	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PAVEMENT MARKING	SHEET 131	E

FILE NAME : N:\PDS\C3D\13800200\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 15

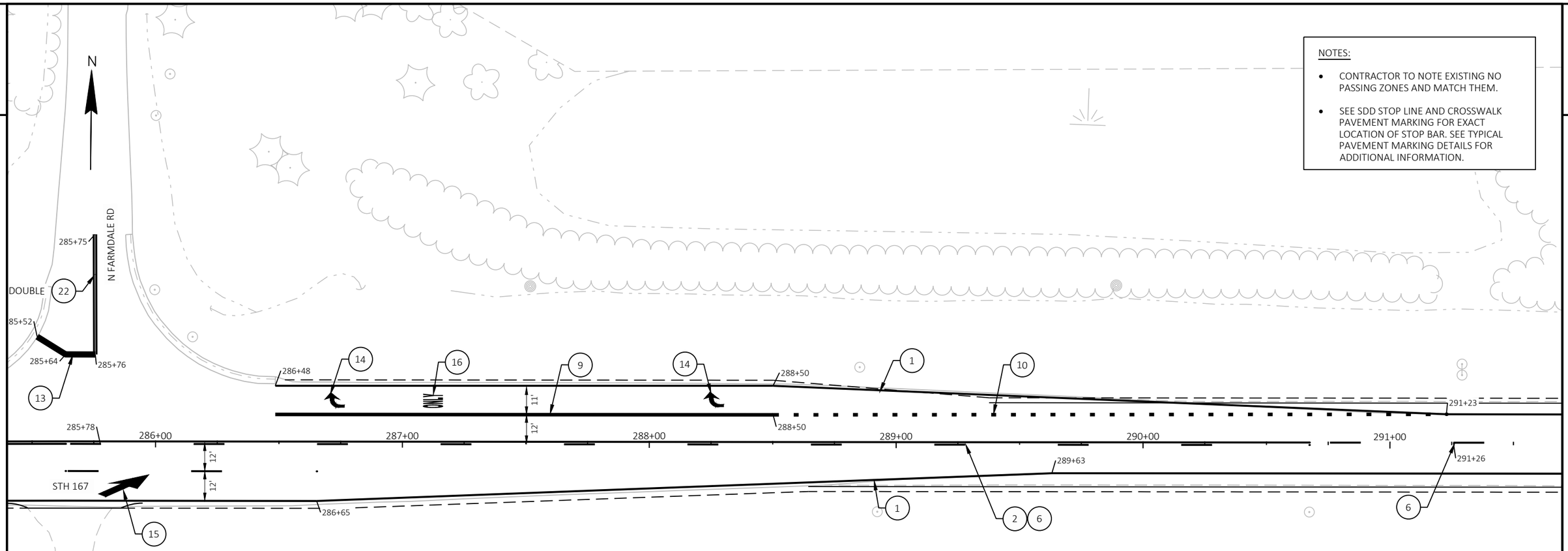
PLOT DATE : 2/19/2025 9:54 AM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

NOTES:

- CONTRACTOR TO NOTE EXISTING NO PASSING ZONES AND MATCH THEM.
- SEE SDD STOP LINE AND CROSSWALK PAVEMENT MARKING FOR EXACT LOCATION OF STOP BAR. SEE TYPICAL PAVEMENT MARKING DETAILS FOR ADDITIONAL INFORMATION.



PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2. MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
3. MARKING LINE EPOXY 6-INCH (YELLOW)
4. MARKING LINE EPOXY 6-INCH (WHITE)
5. MARKING LINE GROOVED EPOXY WET REF 6-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
6. MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)
7. MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5 FT LINE, 37.5 FT SKIP)
8. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH (WHITE)
9. MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)
10. MARKING LINE GROOVED WET REF EPOXY 10-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
11. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
12. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
13. MARKING STOP LINE EPOXY 18-INCH (WHITE)
14. MARKING ARROWS EPOXY, TYPE 2
15. MARKING ARROWS EPOXY, TYPE 5
16. MARKING WORD EPOXY
17. MARKING CURB EPOXY (YELLOW)
18. MARKING ISLAND NOSE EPOXY (YELLOW)
19. MARKING CORRUGATED MEDIAN EPOXY (YELLOW)
20. MARKING YIELD LINE EPOXY 18-INCH (WHITE)
21. MARKING LINE EPOXY 4-INCH (WHITE)
22. MARKING LINE EPOXY 4-INCH (YELLOW)
23. MARKING LINE EPOXY 8-INCH (WHITE)
24. MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)
25. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PAVEMENT MARKING	SHEET 132	E

2

NOTES:

- CONTRACTOR TO NOTE EXISTING NO PASSING ZONES AND MATCH THEM.
- SEE SDD STOP LINE AND CROSSWALK PAVEMENT MARKING FOR EXACT LOCATION OF STOP BAR. SEE TYPICAL PAVEMENT MARKING DETAILS FOR ADDITIONAL INFORMATION.

N

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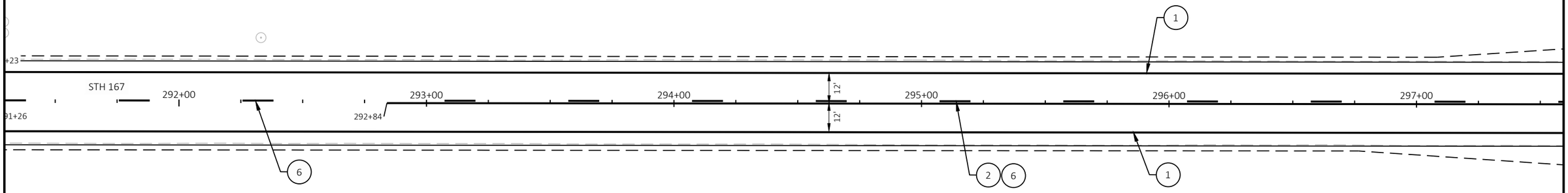

PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2. MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
3. MARKING LINE EPOXY 6-INCH (YELLOW)
4. MARKING LINE EPOXY 6-INCH (WHITE)
5. MARKING LINE GROOVED EPOXY WET REF 6-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
6. MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)
7. MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5 FT LINE, 37.5 FT SKIP)
8. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH (WHITE)
9. MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)
10. MARKING LINE GROOVED WET REF EPOXY 10-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
11. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
12. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
13. MARKING STOP LINE EPOXY 18-INCH (WHITE)
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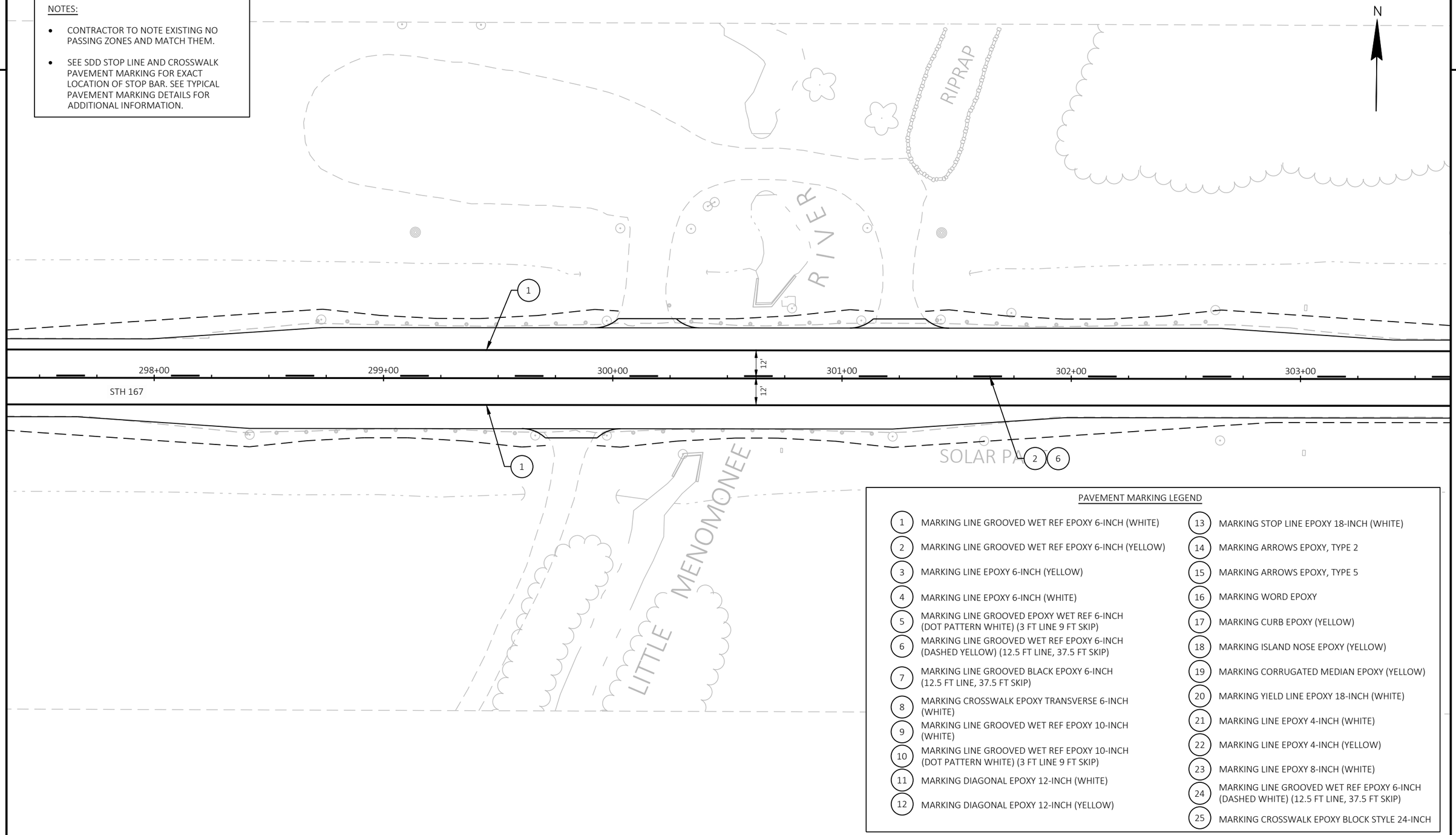
15. MARKING ARROWS EPOXY, TYPE 5
16. MARKING WORD EPOXY
17. MARKING CURB EPOXY (YELLOW)
18. MARKING ISLAND NOSE EPOXY (YELLOW)
19. MARKING CORRUGATED MEDIAN EPOXY (YELLOW)
20. MARKING YIELD LINE EPOXY 18-INCH (WHITE)
21. MARKING LINE EPOXY 4-INCH (WHITE)
22. MARKING LINE EPOXY 4-INCH (YELLOW)
23. MARKING LINE EPOXY 8-INCH (WHITE)
24. MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)
25. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PAVEMENT MARKING	SHEET 133	E

2

NOTES:

- CONTRACTOR TO NOTE EXISTING NO PASSING ZONES AND MATCH THEM.
- SEE SDD STOP LINE AND CROSSWALK PAVEMENT MARKING FOR EXACT LOCATION OF STOP BAR. SEE TYPICAL PAVEMENT MARKING DETAILS FOR ADDITIONAL INFORMATION.



PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2. MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
3. MARKING LINE EPOXY 6-INCH (YELLOW)
4. MARKING LINE EPOXY 6-INCH (WHITE)
5. MARKING LINE GROOVED EPOXY WET REF 6-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
6. MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)
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9. MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)
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12. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
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14. MARKING ARROWS EPOXY, TYPE 2
15. MARKING ARROWS EPOXY, TYPE 5
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17. MARKING CURB EPOXY (YELLOW)
18. MARKING ISLAND NOSE EPOXY (YELLOW)
19. MARKING CORRUGATED MEDIAN EPOXY (YELLOW)
20. MARKING YIELD LINE EPOXY 18-INCH (WHITE)
21. MARKING LINE EPOXY 4-INCH (WHITE)
22. MARKING LINE EPOXY 4-INCH (YELLOW)
23. MARKING LINE EPOXY 8-INCH (WHITE)
24. MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)
25. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PAVEMENT MARKING	SHEET 134	E

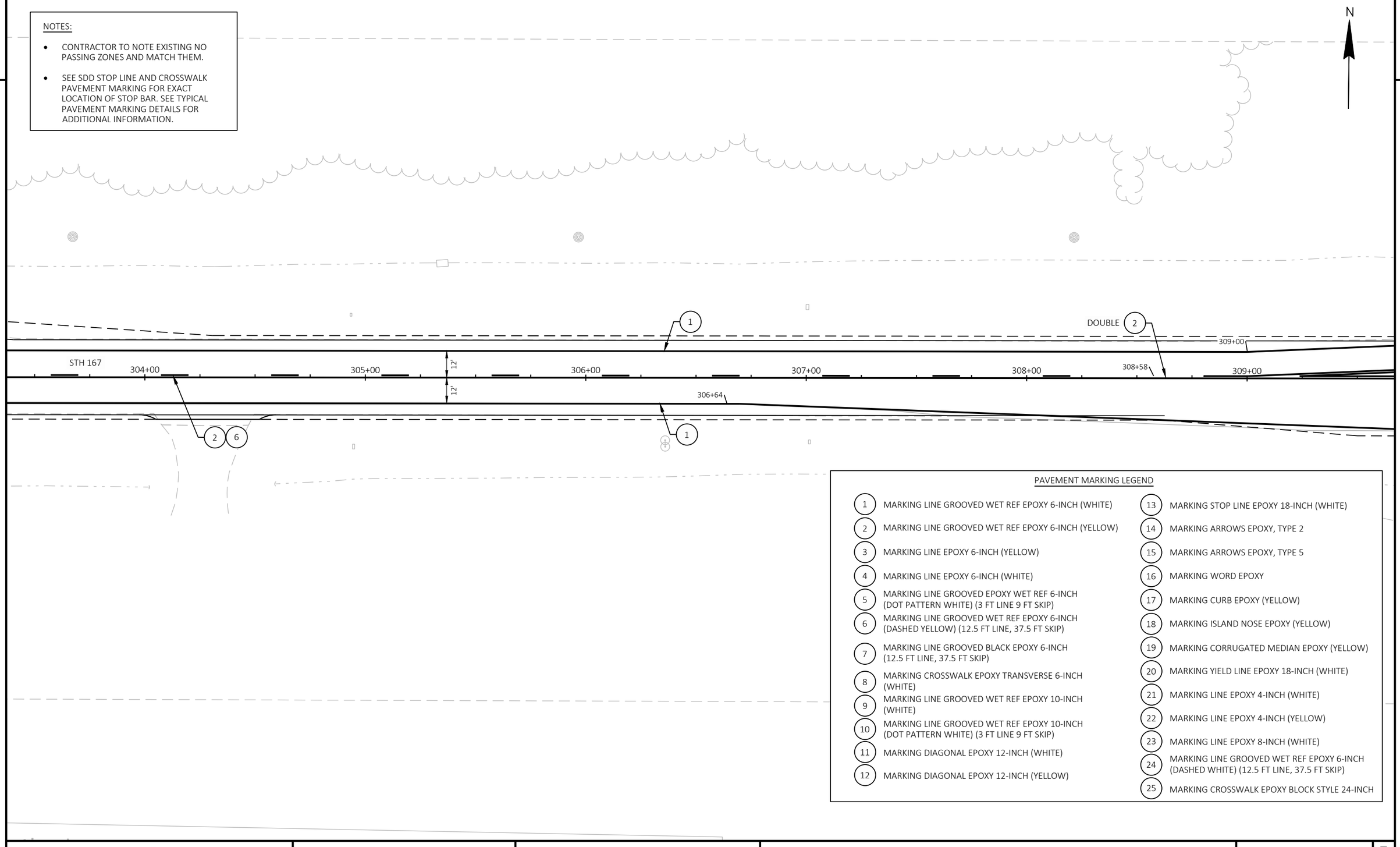
FILE NAME : N:\PDS\C3D\13800200\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 18

PLOT DATE : 2/19/2025 9:55 AM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

NOTES:

- CONTRACTOR TO NOTE EXISTING NO PASSING ZONES AND MATCH THEM.
- SEE SDD STOP LINE AND CROSSWALK PAVEMENT MARKING FOR EXACT LOCATION OF STOP BAR. SEE TYPICAL PAVEMENT MARKING DETAILS FOR ADDITIONAL INFORMATION.



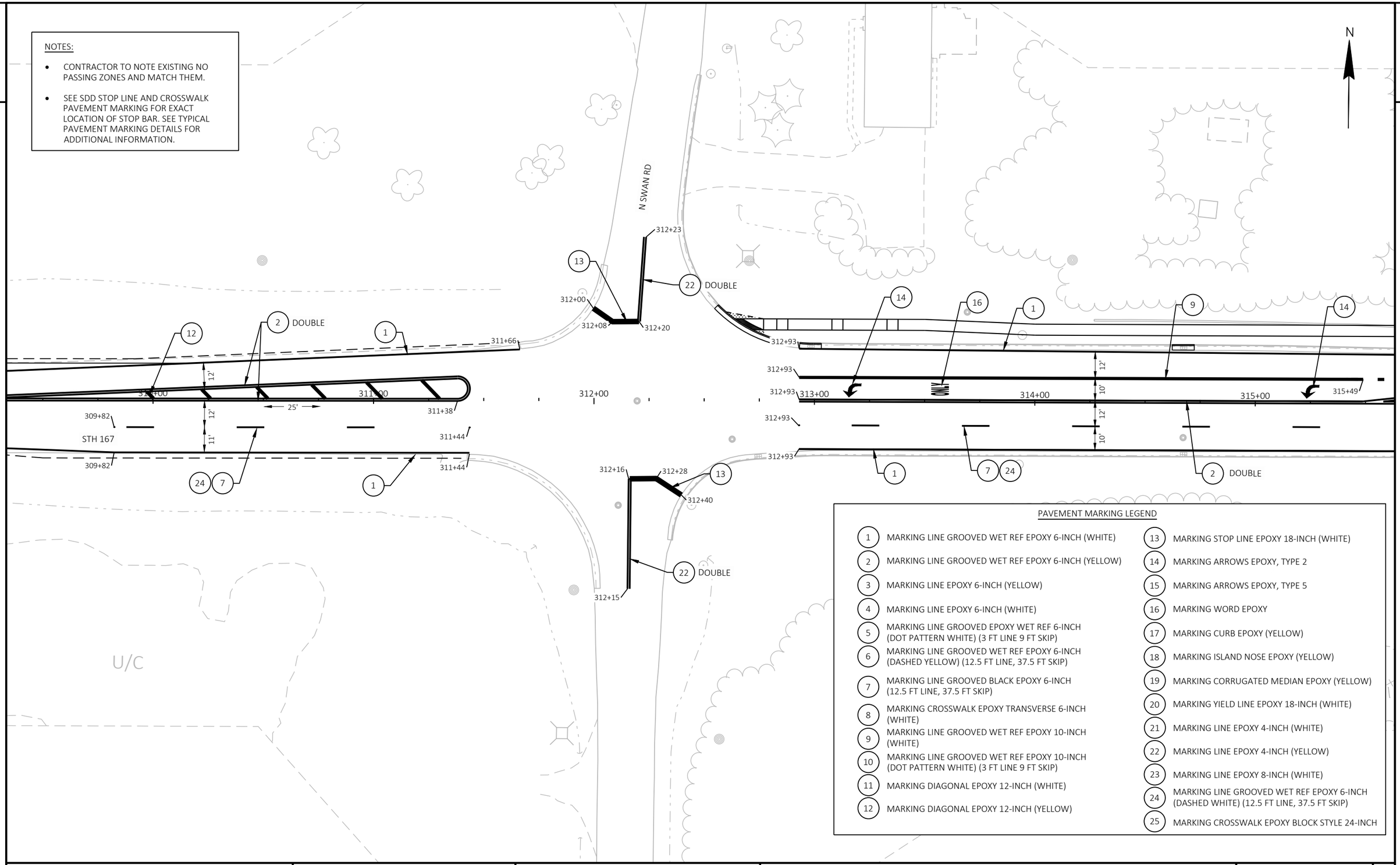
PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2. MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
3. MARKING LINE EPOXY 6-INCH (YELLOW)
4. MARKING LINE EPOXY 6-INCH (WHITE)
5. MARKING LINE GROOVED EPOXY WET REF 6-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
6. MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)
7. MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5 FT LINE, 37.5 FT SKIP)
8. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH (WHITE)
9. MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)
10. MARKING LINE GROOVED WET REF EPOXY 10-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
11. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
12. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
13. MARKING STOP LINE EPOXY 18-INCH (WHITE)
14. MARKING ARROWS EPOXY, TYPE 2
15. MARKING ARROWS EPOXY, TYPE 5
16. MARKING WORD EPOXY
17. MARKING CURB EPOXY (YELLOW)
18. MARKING ISLAND NOSE EPOXY (YELLOW)
19. MARKING CORRUGATED MEDIAN EPOXY (YELLOW)
20. MARKING YIELD LINE EPOXY 18-INCH (WHITE)
21. MARKING LINE EPOXY 4-INCH (WHITE)
22. MARKING LINE EPOXY 4-INCH (YELLOW)
23. MARKING LINE EPOXY 8-INCH (WHITE)
24. MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)
25. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PAVEMENT MARKING	SHEET 135	E

NOTES:

- CONTRACTOR TO NOTE EXISTING NO PASSING ZONES AND MATCH THEM.
- SEE SDD STOP LINE AND CROSSWALK PAVEMENT MARKING FOR EXACT LOCATION OF STOP BAR. SEE TYPICAL PAVEMENT MARKING DETAILS FOR ADDITIONAL INFORMATION.



PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2. MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
3. MARKING LINE EPOXY 6-INCH (YELLOW)
4. MARKING LINE EPOXY 6-INCH (WHITE)
5. MARKING LINE GROOVED EPOXY WET REF 6-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
6. MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)
7. MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5 FT LINE, 37.5 FT SKIP)
8. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH (WHITE)
9. MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)
10. MARKING LINE GROOVED WET REF EPOXY 10-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
11. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
12. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
13. MARKING STOP LINE EPOXY 18-INCH (WHITE)
14. MARKING ARROWS EPOXY, TYPE 2
15. MARKING ARROWS EPOXY, TYPE 5
16. MARKING WORD EPOXY
17. MARKING CURB EPOXY (YELLOW)
18. MARKING ISLAND NOSE EPOXY (YELLOW)
19. MARKING CORRUGATED MEDIAN EPOXY (YELLOW)
20. MARKING YIELD LINE EPOXY 18-INCH (WHITE)
21. MARKING LINE EPOXY 4-INCH (WHITE)
22. MARKING LINE EPOXY 4-INCH (YELLOW)
23. MARKING LINE EPOXY 8-INCH (WHITE)
24. MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)
25. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PAVEMENT MARKING	SHEET 136	E

NOTES:

- CONTRACTOR TO NOTE EXISTING NO PASSING ZONES AND MATCH THEM.
- SEE SDD STOP LINE AND CROSSWALK PAVEMENT MARKING FOR EXACT LOCATION OF STOP BAR. SEE TYPICAL PAVEMENT MARKING DETAILS FOR ADDITIONAL INFORMATION.

N

14 10 2 DOUBLE 1

316+46

12'

12

15+49 316+00 317+00 25' 318+00 319+00 320+00 321+00

STH 167

12'

11'

7 24 1

WELL

PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2. MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
3. MARKING LINE EPOXY 6-INCH (YELLOW)
4. MARKING LINE EPOXY 6-INCH (WHITE)
5. MARKING LINE GROOVED EPOXY WET REF 6-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
6. MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)
7. MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5 FT LINE, 37.5 FT SKIP)
8. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH (WHITE)
9. MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)
10. MARKING LINE GROOVED WET REF EPOXY 10-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
11. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
12. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
13. MARKING STOP LINE EPOXY 18-INCH (WHITE)
14. MARKING ARROWS EPOXY, TYPE 2
15. MARKING ARROWS EPOXY, TYPE 5
16. MARKING WORD EPOXY
17. MARKING CURB EPOXY (YELLOW)
18. MARKING ISLAND NOSE EPOXY (YELLOW)
19. MARKING CORRUGATED MEDIAN EPOXY (YELLOW)
20. MARKING YIELD LINE EPOXY 18-INCH (WHITE)
21. MARKING LINE EPOXY 4-INCH (WHITE)
22. MARKING LINE EPOXY 4-INCH (YELLOW)
23. MARKING LINE EPOXY 8-INCH (WHITE)
24. MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)
25. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PAVEMENT MARKING	SHEET 137	E

FILE NAME : N:\PDS\C3D\13800200\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 21

PLOT DATE : 2/19/2025 9:55 AM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

NOTES:

- CONTRACTOR TO NOTE EXISTING NO PASSING ZONES AND MATCH THEM.
- SEE SDD STOP LINE AND CROSSWALK PAVEMENT MARKING FOR EXACT LOCATION OF STOP BAR. SEE TYPICAL PAVEMENT MARKING DETAILS FOR ADDITIONAL INFORMATION.

N

STH 167

322+60

322+00

323+00

324+00

325+00

326+00

327+00

321+83

11'

11'

11'

1

7 24

7 24

DOUBLE 2

1

325+21

325+69

325+82

13

325+89

DOUBLE 22

325+70

326+21

1

N BRIGHTON PL

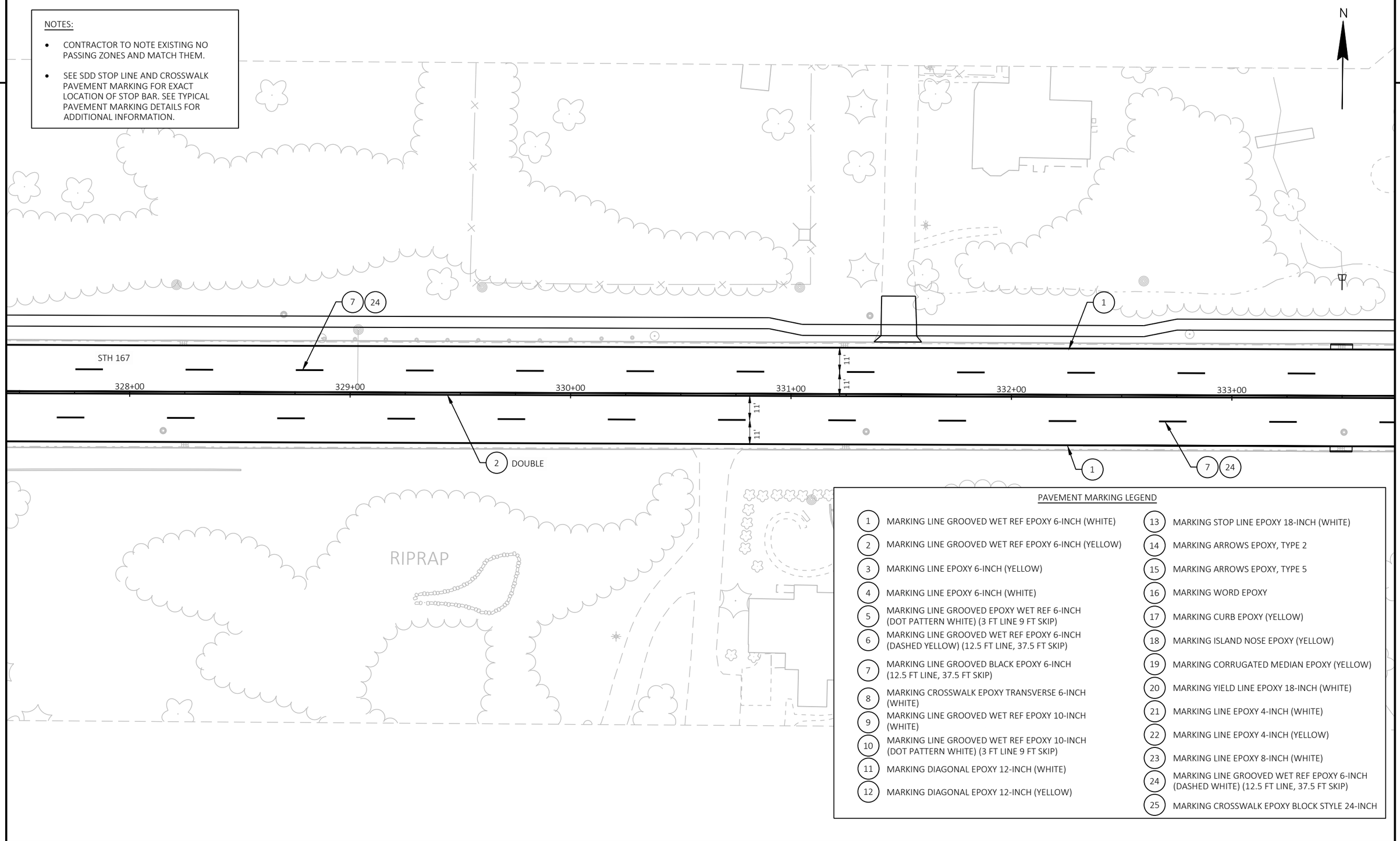
PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2. MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
3. MARKING LINE EPOXY 6-INCH (YELLOW)
4. MARKING LINE EPOXY 6-INCH (WHITE)
5. MARKING LINE GROOVED EPOXY WET REF 6-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
6. MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)
7. MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5 FT LINE, 37.5 FT SKIP)
8. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH (WHITE)
9. MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)
10. MARKING LINE GROOVED WET REF EPOXY 10-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
11. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
12. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
13. MARKING STOP LINE EPOXY 18-INCH (WHITE)
14. MARKING ARROWS EPOXY, TYPE 2
15. MARKING ARROWS EPOXY, TYPE 5
16. MARKING WORD EPOXY
17. MARKING CURB EPOXY (YELLOW)
18. MARKING ISLAND NOSE EPOXY (YELLOW)
19. MARKING CORRUGATED MEDIAN EPOXY (YELLOW)
20. MARKING YIELD LINE EPOXY 18-INCH (WHITE)
21. MARKING LINE EPOXY 4-INCH (WHITE)
22. MARKING LINE EPOXY 4-INCH (YELLOW)
23. MARKING LINE EPOXY 8-INCH (WHITE)
24. MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)
25. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PAVEMENT MARKING	SHEET 138 E

NOTES:

- CONTRACTOR TO NOTE EXISTING NO PASSING ZONES AND MATCH THEM.
- SEE SDD STOP LINE AND CROSSWALK PAVEMENT MARKING FOR EXACT LOCATION OF STOP BAR. SEE TYPICAL PAVEMENT MARKING DETAILS FOR ADDITIONAL INFORMATION.



PAVEMENT MARKING LEGEND

1	MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2	MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
3	MARKING LINE EPOXY 6-INCH (YELLOW)
4	MARKING LINE EPOXY 6-INCH (WHITE)
5	MARKING LINE GROOVED EPOXY WET REF 6-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
6	MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)
7	MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5 FT LINE, 37.5 FT SKIP)
8	MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH (WHITE)
9	MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)
10	MARKING LINE GROOVED WET REF EPOXY 10-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
11	MARKING DIAGONAL EPOXY 12-INCH (WHITE)
12	MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
13	MARKING STOP LINE EPOXY 18-INCH (WHITE)
14	MARKING ARROWS EPOXY, TYPE 2
15	MARKING ARROWS EPOXY, TYPE 5
16	MARKING WORD EPOXY
17	MARKING CURB EPOXY (YELLOW)
18	MARKING ISLAND NOSE EPOXY (YELLOW)
19	MARKING CORRUGATED MEDIAN EPOXY (YELLOW)
20	MARKING YIELD LINE EPOXY 18-INCH (WHITE)
21	MARKING LINE EPOXY 4-INCH (WHITE)
22	MARKING LINE EPOXY 4-INCH (YELLOW)
23	MARKING LINE EPOXY 8-INCH (WHITE)
24	MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)
25	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PAVEMENT MARKING	SHEET 139	E

NOTES:

- CONTRACTOR TO NOTE EXISTING NO PASSING ZONES AND MATCH THEM.
- SEE SDD STOP LINE AND CROSSWALK PAVEMENT MARKING FOR EXACT LOCATION OF STOP BAR. SEE TYPICAL PAVEMENT MARKING DETAILS FOR ADDITIONAL INFORMATION.

N

334+00 335+00 336+00 337+00 338+00 339+00

STH 167

N WHILTON RD

335+46 335+27 335+35 335+47 335+71 335+77 335+98 334+91

335+46 335+57 335+63 335+47 335+98 334+91

DOUBLE

11' 11' 11' 11'

PAVEMENT MARKING LEGEND

1 MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)	13 MARKING STOP LINE EPOXY 18-INCH (WHITE)
2 MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)	14 MARKING ARROWS EPOXY, TYPE 2
3 MARKING LINE EPOXY 6-INCH (YELLOW)	15 MARKING ARROWS EPOXY, TYPE 5
4 MARKING LINE EPOXY 6-INCH (WHITE)	16 MARKING WORD EPOXY
5 MARKING LINE GROOVED EPOXY WET REF 6-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)	17 MARKING CURB EPOXY (YELLOW)
6 MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)	18 MARKING ISLAND NOSE EPOXY (YELLOW)
7 MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5 FT LINE, 37.5 FT SKIP)	19 MARKING CORRUGATED MEDIAN EPOXY (YELLOW)
8 MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH (WHITE)	20 MARKING YIELD LINE EPOXY 18-INCH (WHITE)
9 MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)	21 MARKING LINE EPOXY 4-INCH (WHITE)
10 MARKING LINE GROOVED WET REF EPOXY 10-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)	22 MARKING LINE EPOXY 4-INCH (YELLOW)
11 MARKING DIAGONAL EPOXY 12-INCH (WHITE)	23 MARKING LINE EPOXY 8-INCH (WHITE)
12 MARKING DIAGONAL EPOXY 12-INCH (YELLOW)	24 MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)
	25 MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PAVEMENT MARKING	SHEET 140	E

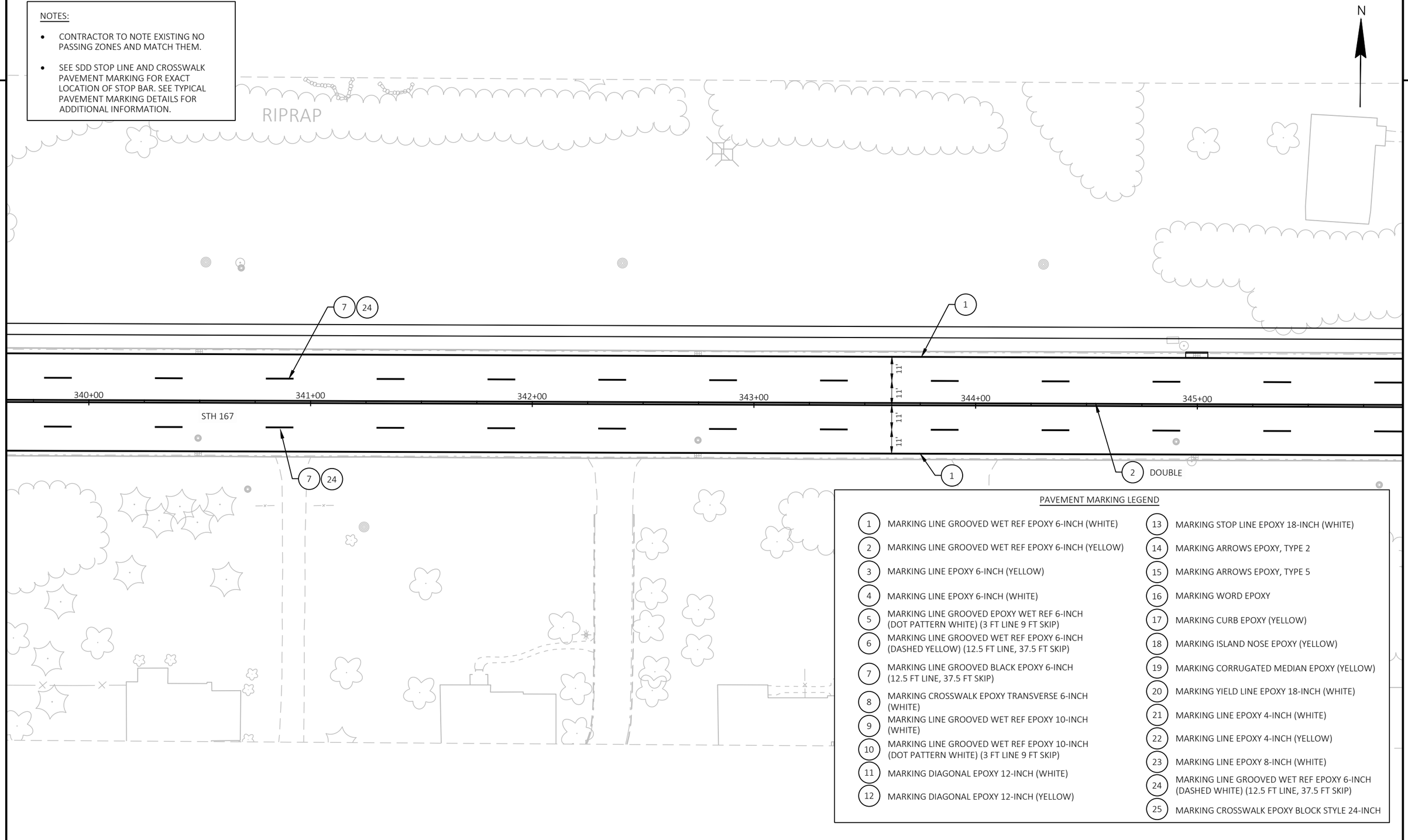
FILE NAME : N:\PDS\C3D\13800200\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 24

PLOT DATE : 2/19/2025 9:55 AM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

NOTES:

- CONTRACTOR TO NOTE EXISTING NO PASSING ZONES AND MATCH THEM.
- SEE SDD STOP LINE AND CROSSWALK PAVEMENT MARKING FOR EXACT LOCATION OF STOP BAR. SEE TYPICAL PAVEMENT MARKING DETAILS FOR ADDITIONAL INFORMATION.



PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2. MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
3. MARKING LINE EPOXY 6-INCH (YELLOW)
4. MARKING LINE EPOXY 6-INCH (WHITE)
5. MARKING LINE GROOVED EPOXY WET REF 6-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
6. MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)
7. MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5 FT LINE, 37.5 FT SKIP)
8. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH (WHITE)
9. MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)
10. MARKING LINE GROOVED WET REF EPOXY 10-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
11. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
12. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
13. MARKING STOP LINE EPOXY 18-INCH (WHITE)
14. MARKING ARROWS EPOXY, TYPE 2
15. MARKING ARROWS EPOXY, TYPE 5
16. MARKING WORD EPOXY
17. MARKING CURB EPOXY (YELLOW)
18. MARKING ISLAND NOSE EPOXY (YELLOW)
19. MARKING CORRUGATED MEDIAN EPOXY (YELLOW)
20. MARKING YIELD LINE EPOXY 18-INCH (WHITE)
21. MARKING LINE EPOXY 4-INCH (WHITE)
22. MARKING LINE EPOXY 4-INCH (YELLOW)
23. MARKING LINE EPOXY 8-INCH (WHITE)
24. MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)
25. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH

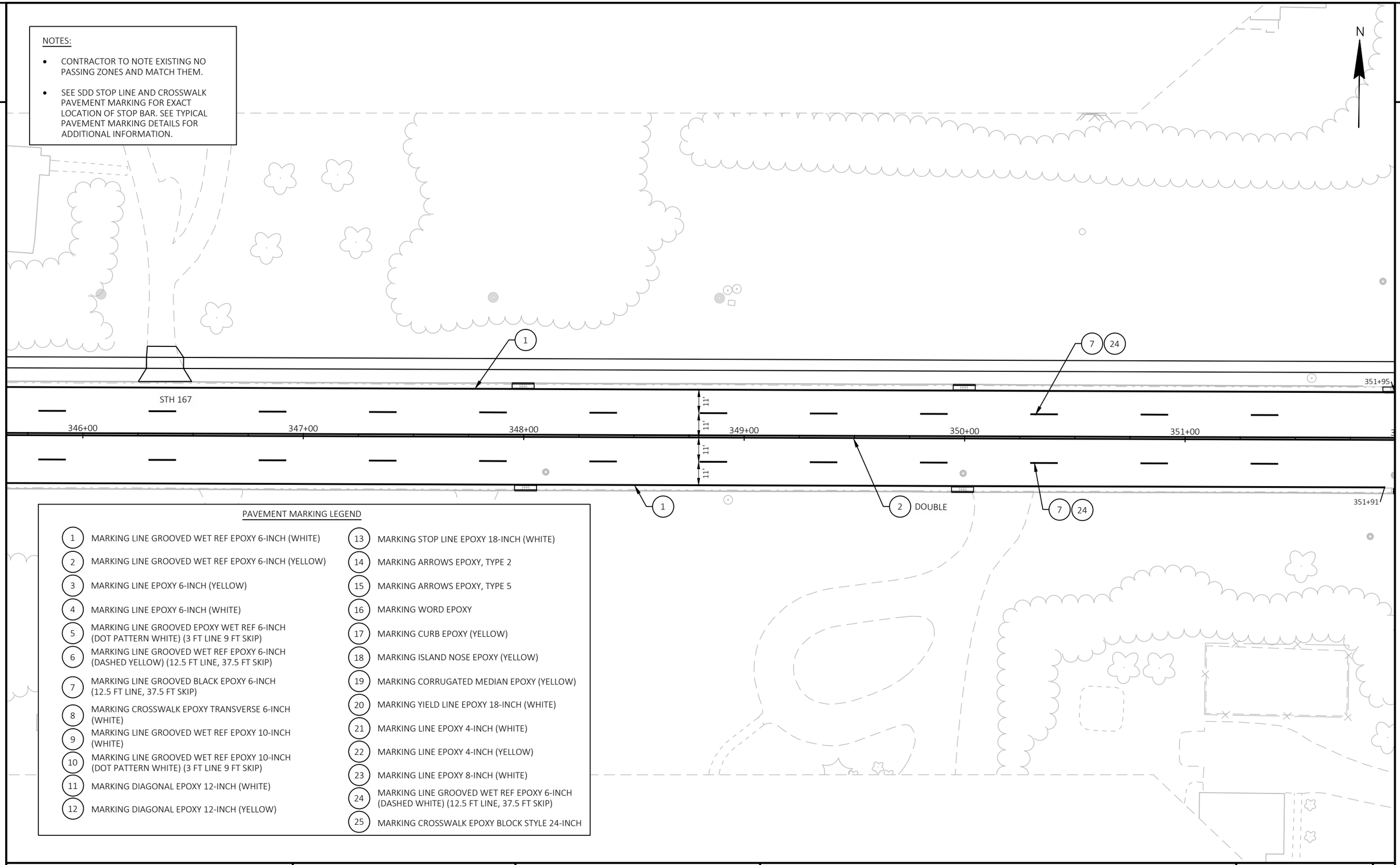
PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PAVEMENT MARKING	SHEET 141	E

FILE NAME : N:\PDS\C3D\13800200\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 25
PLOT DATE : 2/19/2025 9:55 AM
PLOT BY : DE JESUS ORTIZ, N
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

NOTES:

- CONTRACTOR TO NOTE EXISTING NO PASSING ZONES AND MATCH THEM.
- SEE SDD STOP LINE AND CROSSWALK PAVEMENT MARKING FOR EXACT LOCATION OF STOP BAR. SEE TYPICAL PAVEMENT MARKING DETAILS FOR ADDITIONAL INFORMATION.



PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2. MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
3. MARKING LINE EPOXY 6-INCH (YELLOW)
4. MARKING LINE EPOXY 6-INCH (WHITE)
5. MARKING LINE GROOVED EPOXY WET REF 6-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
6. MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)
7. MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5 FT LINE, 37.5 FT SKIP)
8. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH (WHITE)
9. MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)
10. MARKING LINE GROOVED WET REF EPOXY 10-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
11. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
12. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
13. MARKING STOP LINE EPOXY 18-INCH (WHITE)
14. MARKING ARROWS EPOXY, TYPE 2
15. MARKING ARROWS EPOXY, TYPE 5
16. MARKING WORD EPOXY
17. MARKING CURB EPOXY (YELLOW)
18. MARKING ISLAND NOSE EPOXY (YELLOW)
19. MARKING CORRUGATED MEDIAN EPOXY (YELLOW)
20. MARKING YIELD LINE EPOXY 18-INCH (WHITE)
21. MARKING LINE EPOXY 4-INCH (WHITE)
22. MARKING LINE EPOXY 4-INCH (YELLOW)
23. MARKING LINE EPOXY 8-INCH (WHITE)
24. MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)
25. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PAVEMENT MARKING	SHEET 142	E

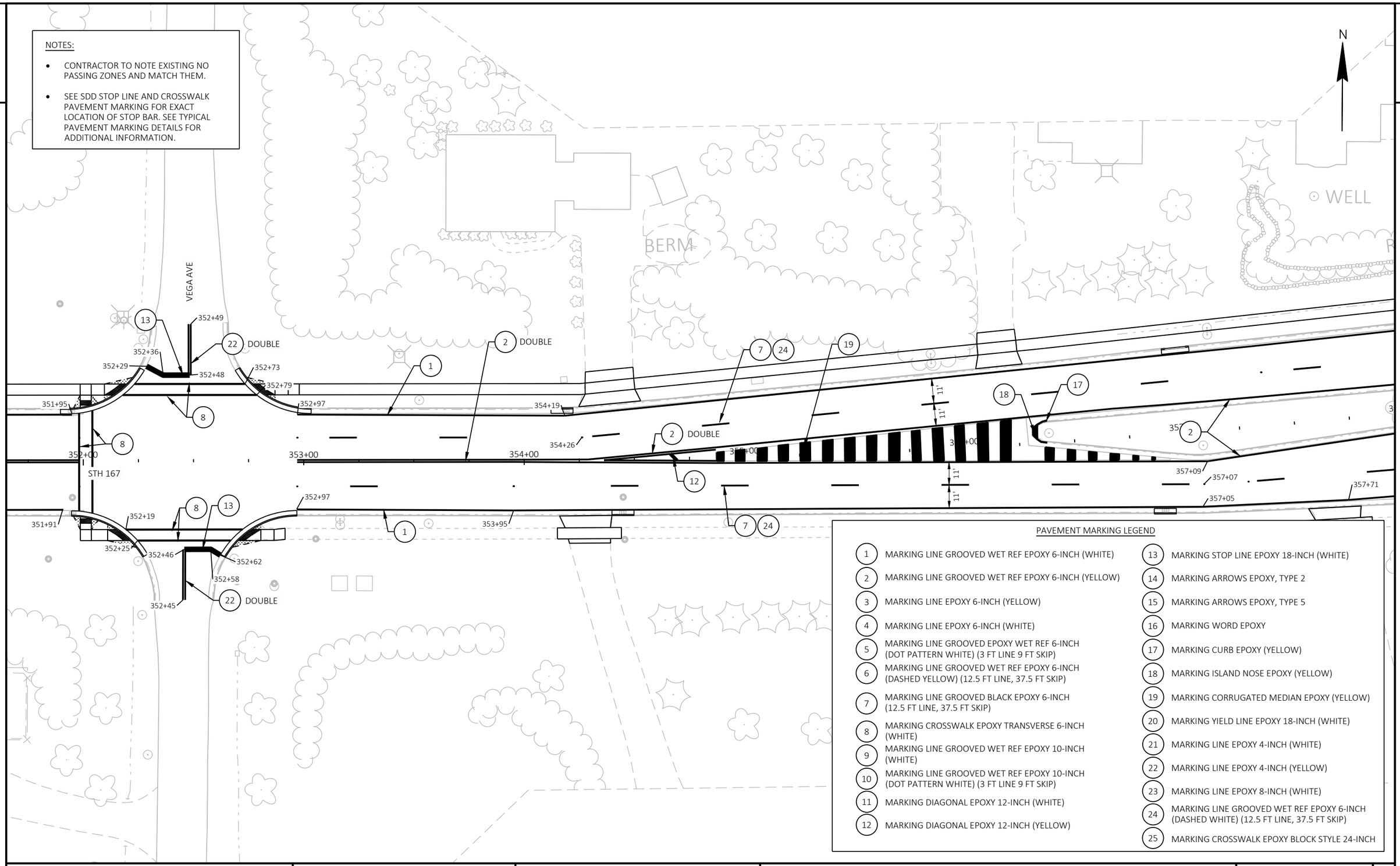
FILE NAME : N:\PDS\C3D\13800200\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 26

PLOT DATE : 2/19/2025 9:55 AM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

NOTES:

- CONTRACTOR TO NOTE EXISTING NO PASSING ZONES AND MATCH THEM.
- SEE SDD STOP LINE AND CROSSWALK PAVEMENT MARKING FOR EXACT LOCATION OF STOP BAR. SEE TYPICAL PAVEMENT MARKING DETAILS FOR ADDITIONAL INFORMATION.



PAVEMENT MARKING LEGEND

1	MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2	MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
3	MARKING LINE EPOXY 6-INCH (YELLOW)
4	MARKING LINE EPOXY 6-INCH (WHITE)
5	MARKING LINE GROOVED EPOXY WET REF 6-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
6	MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)
7	MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5 FT LINE, 37.5 FT SKIP)
8	MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH (WHITE)
9	MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)
10	MARKING LINE GROOVED WET REF EPOXY 10-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
11	MARKING DIAGONAL EPOXY 12-INCH (WHITE)
12	MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
13	MARKING STOP LINE EPOXY 18-INCH (WHITE)
14	MARKING ARROWS EPOXY, TYPE 2
15	MARKING ARROWS EPOXY, TYPE 5
16	MARKING WORD EPOXY
17	MARKING CURB EPOXY (YELLOW)
18	MARKING ISLAND NOSE EPOXY (YELLOW)
19	MARKING CORRUGATED MEDIAN EPOXY (YELLOW)
20	MARKING YIELD LINE EPOXY 18-INCH (WHITE)
21	MARKING LINE EPOXY 4-INCH (WHITE)
22	MARKING LINE EPOXY 4-INCH (YELLOW)
23	MARKING LINE EPOXY 8-INCH (WHITE)
24	MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)
25	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PAVEMENT MARKING	SHEET 143	E

FILE NAME : N:\PDS\C3D\13800200\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 27
PLOT DATE : 2/19/2025 9:55 AM
PLOT BY : DE JESUS ORTIZ, N
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

SOLAR AVE

VELL

RIPRAP

STH 167

PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2. MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
3. MARKING LINE EPOXY 6-INCH (YELLOW)
4. MARKING LINE EPOXY 6-INCH (WHITE)
5. MARKING LINE GROOVED EPOXY WET REF 6-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
6. MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)
7. MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5 FT LINE, 37.5 FT SKIP)
8. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH (WHITE)
9. MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)
10. MARKING LINE GROOVED WET REF EPOXY 10-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
11. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
12. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
13. MARKING STOP LINE EPOXY 18-INCH (WHITE)
14. MARKING ARROWS EPOXY, TYPE 2
15. MARKING ARROWS EPOXY, TYPE 5
16. MARKING WORD EPOXY
17. MARKING CURB EPOXY (YELLOW)
18. MARKING ISLAND NOSE EPOXY (YELLOW)
19. MARKING CORRUGATED MEDIAN EPOXY (YELLOW)
20. MARKING YIELD LINE EPOXY 18-INCH (WHITE)
21. MARKING LINE EPOXY 4-INCH (WHITE)
22. MARKING LINE EPOXY 4-INCH (YELLOW)
23. MARKING LINE EPOXY 8-INCH (WHITE)
24. MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)
25. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH

NOTES:

- CONTRACTOR TO NOTE EXISTING NO PASSING ZONES AND MATCH THEM.
- SEE SDD STOP LINE AND CROSSWALK PAVEMENT MARKING FOR EXACT LOCATION OF STOP BAR. SEE TYPICAL PAVEMENT MARKING DETAILS FOR ADDITIONAL INFORMATION.

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PAVEMENT MARKING	SHEET 144	E

NOTES:

- CONTRACTOR TO NOTE EXISTING NO PASSING ZONES AND MATCH THEM.
- SEE SDD STOP LINE AND CROSSWALK PAVEMENT MARKING FOR EXACT LOCATION OF STOP BAR. SEE TYPICAL PAVEMENT MARKING DETAILS FOR ADDITIONAL INFORMATION.

N

STH 167

STH 181

PAVEMENT MARKING LEGEND

1 MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)	13 MARKING STOP LINE EPOXY 18-INCH (WHITE)
2 MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)	14 MARKING ARROWS EPOXY, TYPE 2
3 MARKING LINE EPOXY 6-INCH (YELLOW)	15 MARKING ARROWS EPOXY, TYPE 5
4 MARKING LINE EPOXY 6-INCH (WHITE)	16 MARKING WORD EPOXY
5 MARKING LINE GROOVED EPOXY WET REF 6-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)	17 MARKING CURB EPOXY (YELLOW)
6 MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)	18 MARKING ISLAND NOSE EPOXY (YELLOW)
7 MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5 FT LINE, 37.5 FT SKIP)	19 MARKING CORRUGATED MEDIAN EPOXY (YELLOW)
8 MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH (WHITE)	20 MARKING YIELD LINE EPOXY 18-INCH (WHITE)
9 MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)	21 MARKING LINE EPOXY 4-INCH (WHITE)
10 MARKING LINE GROOVED WET REF EPOXY 10-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)	22 MARKING LINE EPOXY 4-INCH (YELLOW)
11 MARKING DIAGONAL EPOXY 12-INCH (WHITE)	23 MARKING LINE EPOXY 8-INCH (WHITE)
12 MARKING DIAGONAL EPOXY 12-INCH (YELLOW)	24 MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)
	25 MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PAVEMENT MARKING	SHEET 145	E

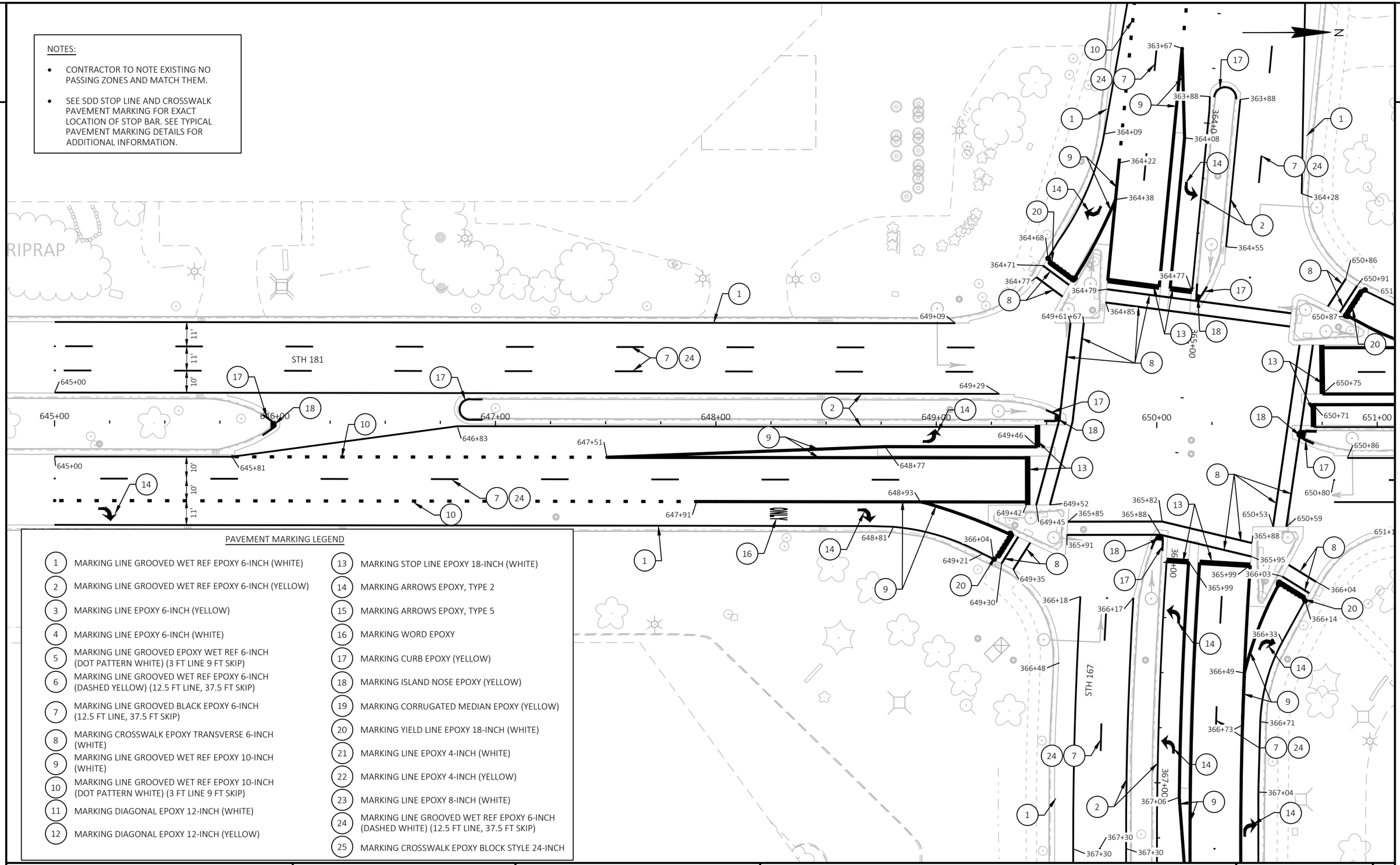
FILE NAME : N:\PDS\C3D\13800200\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 29

PLOT DATE : 2/19/2025 9:56 AM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

NOTES:

- CONTRACTOR TO NOTE EXISTING NO PASSING ZONES AND MATCH THEM.
- SEE SDD STOP LINE AND CROSSWALK PAVEMENT MARKING FOR EXACT LOCATION OF STOP BAR. SEE TYPICAL PAVEMENT MARKING DETAILS FOR ADDITIONAL INFORMATION.



PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2. MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
3. MARKING LINE EPOXY 6-INCH (YELLOW)
4. MARKING LINE EPOXY 6-INCH (WHITE)
5. MARKING LINE GROOVED EPOXY WET REF 6-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
6. MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)
7. MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5 FT LINE, 37.5 FT SKIP)
8. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH (WHITE)
9. MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)
10. MARKING LINE GROOVED WET REF EPOXY 10-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
11. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
12. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
13. MARKING STOP LINE EPOXY 18-INCH (WHITE)
14. MARKING ARROWS EPOXY, TYPE 2
15. MARKING ARROWS EPOXY, TYPE 5
16. MARKING WORD EPOXY
17. MARKING CURB EPOXY (YELLOW)
18. MARKING ISLAND NOSE EPOXY (YELLOW)
19. MARKING CORRUGATED MEDIAN EPOXY (YELLOW)
20. MARKING YIELD LINE EPOXY 18-INCH (WHITE)
21. MARKING LINE EPOXY 4-INCH (WHITE)
22. MARKING LINE EPOXY 4-INCH (YELLOW)
23. MARKING LINE EPOXY 8-INCH (WHITE)
24. MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)
25. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PAVEMENT MARKING	SHEET 146	E

NOTES:

- CONTRACTOR TO NOTE EXISTING NO PASSING ZONES AND MATCH THEM.
- SEE SDD STOP LINE AND CROSSWALK PAVEMENT MARKING FOR EXACT LOCATION OF STOP BAR. SEE TYPICAL PAVEMENT MARKING DETAILS FOR ADDITIONAL INFORMATION.

N

650+86
650+91
651+14
651+38
651+18
651+45
651+00
652+00
652+40
653+07
653+09
653+19
653+30
653+35
651+13
365+04
STH 181
654+00
654+23
654+22
654+01
654+45
655+40
655+46
655+95
655+80
656+00
657+00
DOUBLE
RIPRAP
11'
10'
12'
15'
21'

PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2. MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
3. MARKING LINE EPOXY 6-INCH (YELLOW)
4. MARKING LINE EPOXY 6-INCH (WHITE)
5. MARKING LINE GROOVED EPOXY WET REF 6-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
6. MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)
7. MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5 FT LINE, 37.5 FT SKIP)
8. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH (WHITE)
9. MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)
10. MARKING LINE GROOVED WET REF EPOXY 10-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
11. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
12. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
13. MARKING STOP LINE EPOXY 18-INCH (WHITE)
14. MARKING ARROWS EPOXY, TYPE 2
15. MARKING ARROWS EPOXY, TYPE 5
16. MARKING WORD EPOXY
17. MARKING CURB EPOXY (YELLOW)
18. MARKING ISLAND NOSE EPOXY (YELLOW)
19. MARKING CORRUGATED MEDIAN EPOXY (YELLOW)
20. MARKING YIELD LINE EPOXY 18-INCH (WHITE)
21. MARKING LINE EPOXY 4-INCH (WHITE)
22. MARKING LINE EPOXY 4-INCH (YELLOW)
23. MARKING LINE EPOXY 8-INCH (WHITE)
24. MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)
25. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PAVEMENT MARKING	SHEET 147	E

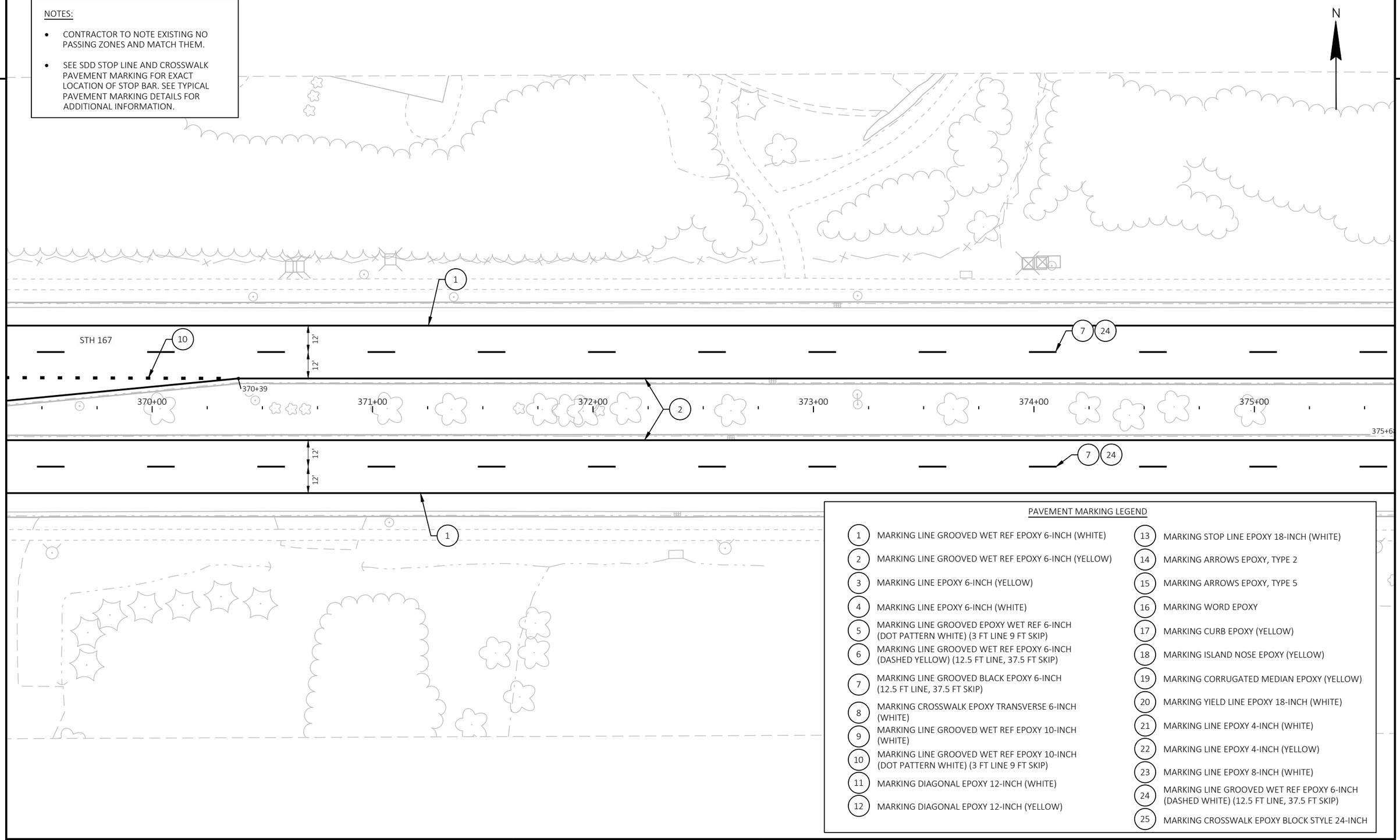
FILE NAME : N:\PDS\C3D\13800200\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 31

PLOT DATE : 2/19/2025 9:56 AM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

NOTES:

- CONTRACTOR TO NOTE EXISTING NO PASSING ZONES AND MATCH THEM.
- SEE SDD STOP LINE AND CROSSWALK PAVEMENT MARKING FOR EXACT LOCATION OF STOP BAR. SEE TYPICAL PAVEMENT MARKING DETAILS FOR ADDITIONAL INFORMATION.



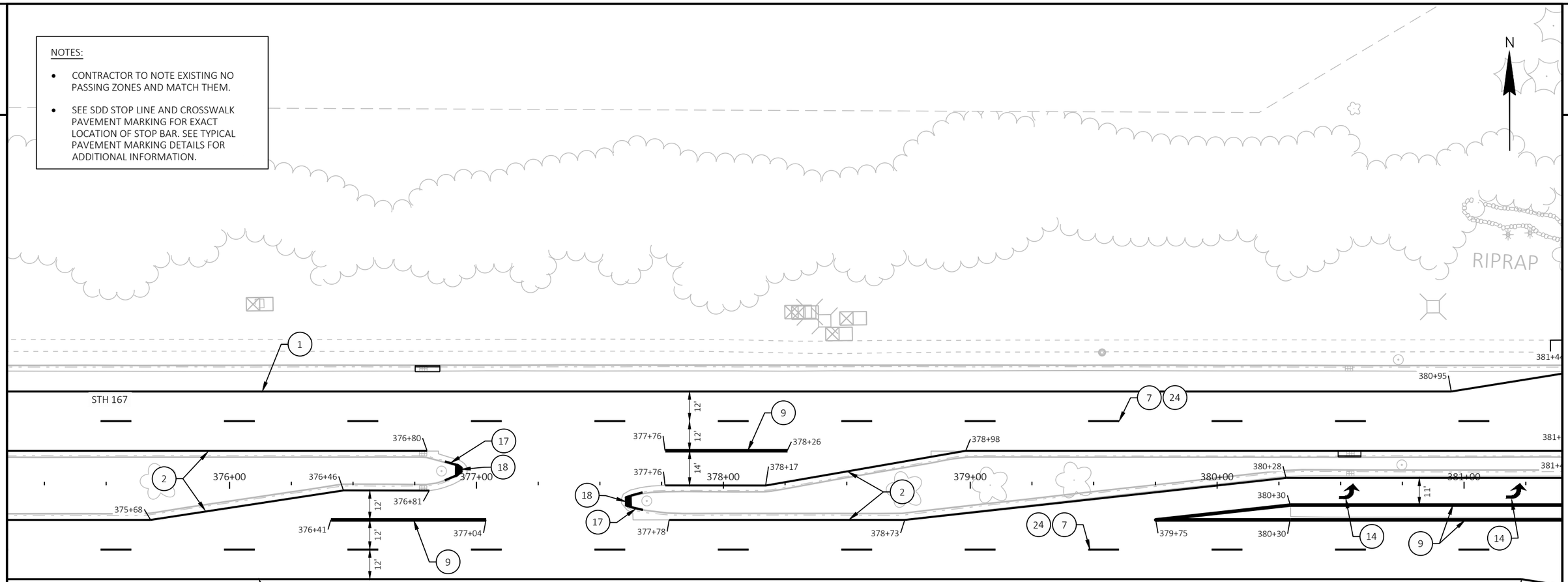
PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2. MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
3. MARKING LINE EPOXY 6-INCH (YELLOW)
4. MARKING LINE EPOXY 6-INCH (WHITE)
5. MARKING LINE GROOVED EPOXY WET REF 6-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
6. MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)
7. MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5 FT LINE, 37.5 FT SKIP)
8. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH (WHITE)
9. MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)
10. MARKING LINE GROOVED WET REF EPOXY 10-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
11. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
12. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
13. MARKING STOP LINE EPOXY 18-INCH (WHITE)
14. MARKING ARROWS EPOXY, TYPE 2
15. MARKING ARROWS EPOXY, TYPE 5
16. MARKING WORD EPOXY
17. MARKING CURB EPOXY (YELLOW)
18. MARKING ISLAND NOSE EPOXY (YELLOW)
19. MARKING CORRUGATED MEDIAN EPOXY (YELLOW)
20. MARKING YIELD LINE EPOXY 18-INCH (WHITE)
21. MARKING LINE EPOXY 4-INCH (WHITE)
22. MARKING LINE EPOXY 4-INCH (YELLOW)
23. MARKING LINE EPOXY 8-INCH (WHITE)
24. MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)
25. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PAVEMENT MARKING	SHEET 148	E

NOTES:

- CONTRACTOR TO NOTE EXISTING NO PASSING ZONES AND MATCH THEM.
- SEE SDD STOP LINE AND CROSSWALK PAVEMENT MARKING FOR EXACT LOCATION OF STOP BAR. SEE TYPICAL PAVEMENT MARKING DETAILS FOR ADDITIONAL INFORMATION.



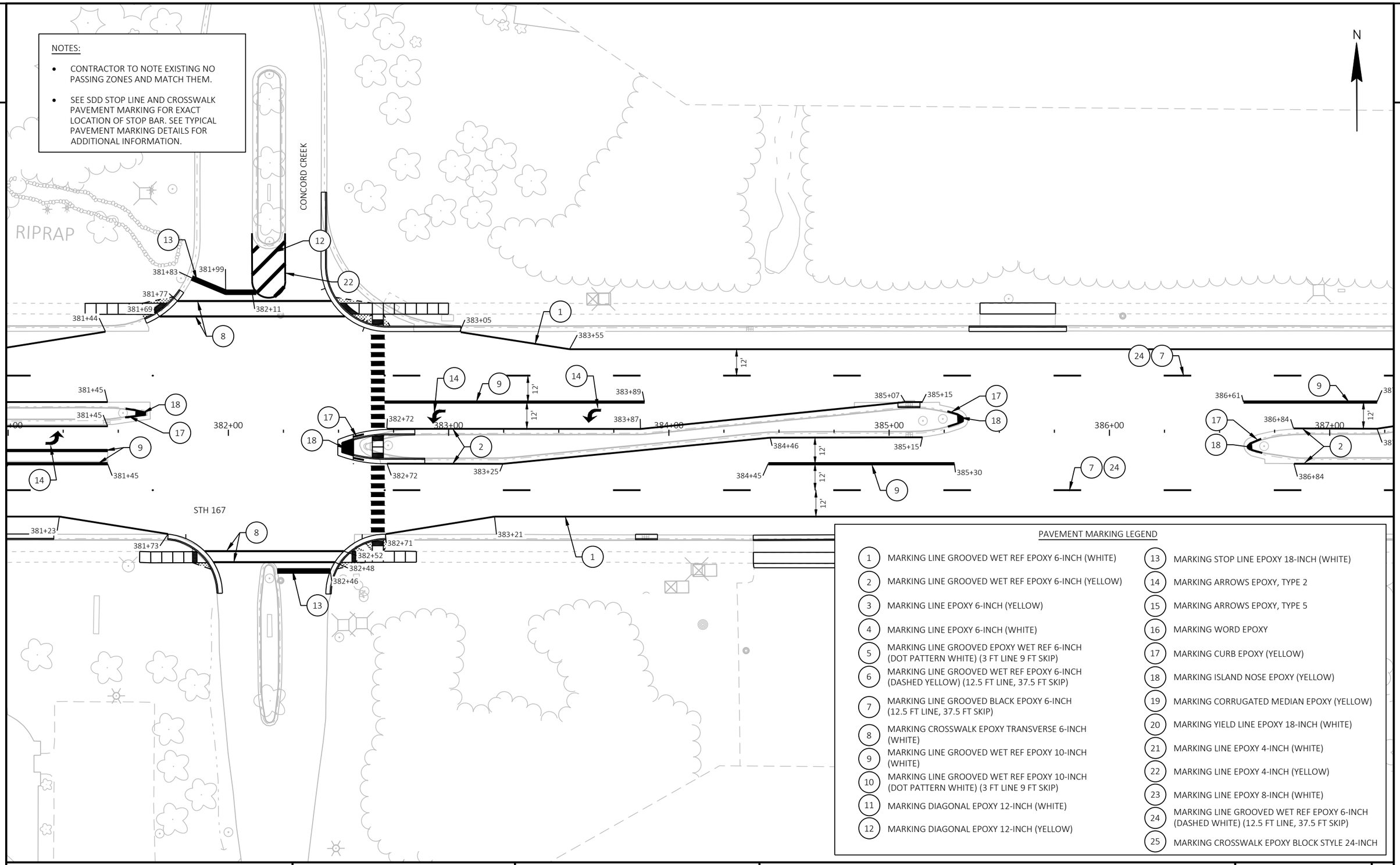
PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2. MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
3. MARKING LINE EPOXY 6-INCH (YELLOW)
4. MARKING LINE EPOXY 6-INCH (WHITE)
5. MARKING LINE GROOVED EPOXY WET REF 6-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
6. MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)
7. MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5 FT LINE, 37.5 FT SKIP)
8. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH (WHITE)
9. MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)
10. MARKING LINE GROOVED WET REF EPOXY 10-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
11. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
12. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
13. MARKING STOP LINE EPOXY 18-INCH (WHITE)
14. MARKING ARROWS EPOXY, TYPE 2
15. MARKING ARROWS EPOXY, TYPE 5
16. MARKING WORD EPOXY
17. MARKING CURB EPOXY (YELLOW)
18. MARKING ISLAND NOSE EPOXY (YELLOW)
19. MARKING CORRUGATED MEDIAN EPOXY (YELLOW)
20. MARKING YIELD LINE EPOXY 18-INCH (WHITE)
21. MARKING LINE EPOXY 4-INCH (WHITE)
22. MARKING LINE EPOXY 4-INCH (YELLOW)
23. MARKING LINE EPOXY 8-INCH (WHITE)
24. MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)
25. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PAVEMENT MARKING	SHEET 149	E

NOTES:

- CONTRACTOR TO NOTE EXISTING NO PASSING ZONES AND MATCH THEM.
- SEE SDD STOP LINE AND CROSSWALK PAVEMENT MARKING FOR EXACT LOCATION OF STOP BAR. SEE TYPICAL PAVEMENT MARKING DETAILS FOR ADDITIONAL INFORMATION.



PAVEMENT MARKING LEGEND

1	MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2	MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
3	MARKING LINE EPOXY 6-INCH (YELLOW)
4	MARKING LINE EPOXY 6-INCH (WHITE)
5	MARKING LINE GROOVED EPOXY WET REF 6-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
6	MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)
7	MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5 FT LINE, 37.5 FT SKIP)
8	MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH (WHITE)
9	MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)
10	MARKING LINE GROOVED WET REF EPOXY 10-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
11	MARKING DIAGONAL EPOXY 12-INCH (WHITE)
12	MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
13	MARKING STOP LINE EPOXY 18-INCH (WHITE)
14	MARKING ARROWS EPOXY, TYPE 2
15	MARKING ARROWS EPOXY, TYPE 5
16	MARKING WORD EPOXY
17	MARKING CURB EPOXY (YELLOW)
18	MARKING ISLAND NOSE EPOXY (YELLOW)
19	MARKING CORRUGATED MEDIAN EPOXY (YELLOW)
20	MARKING YIELD LINE EPOXY 18-INCH (WHITE)
21	MARKING LINE EPOXY 4-INCH (WHITE)
22	MARKING LINE EPOXY 4-INCH (YELLOW)
23	MARKING LINE EPOXY 8-INCH (WHITE)
24	MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)
25	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH

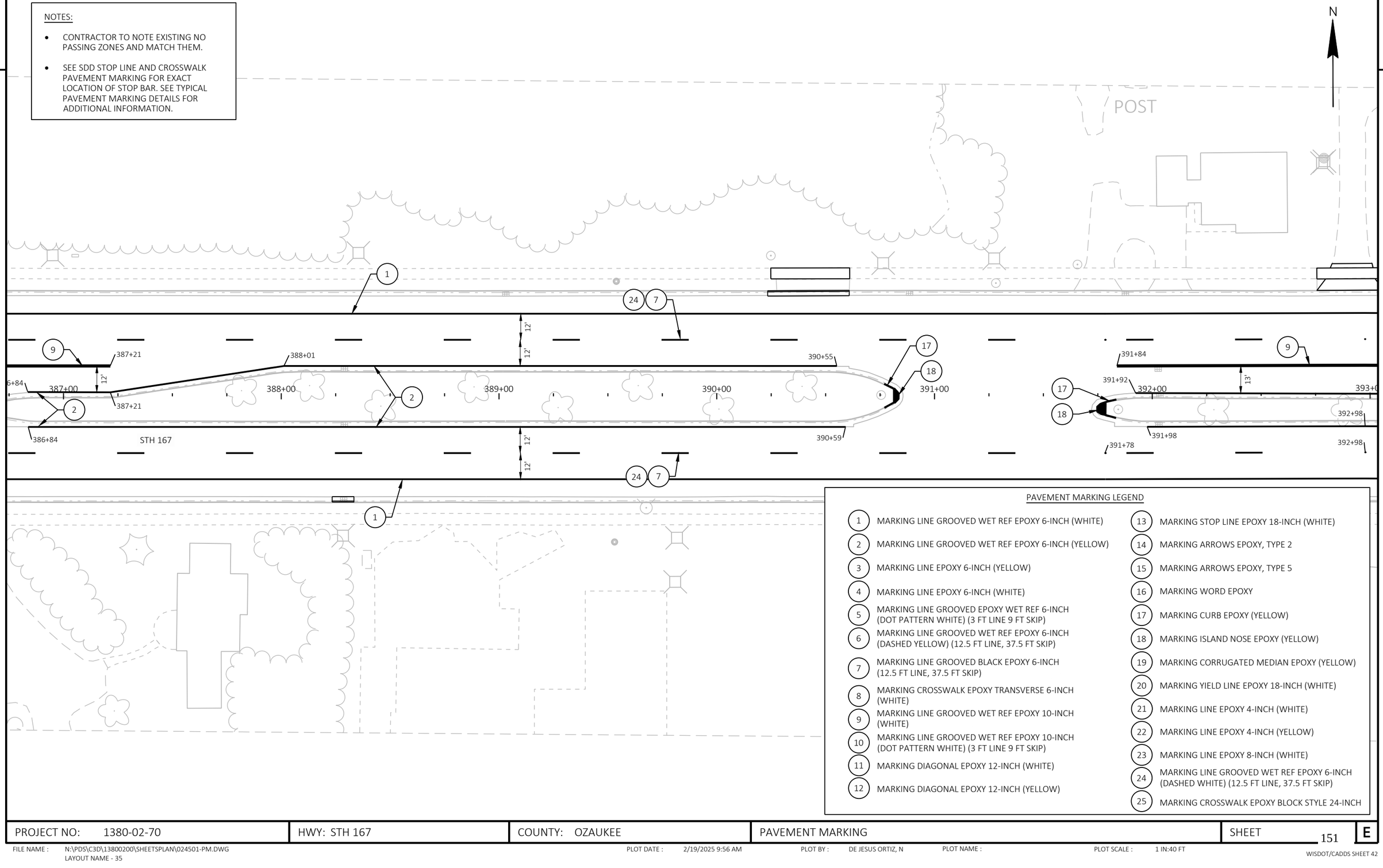
PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PAVEMENT MARKING	SHEET 150	E

FILE NAME : N:\PDS\C3D\13800200\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 34

PLOT DATE : 2/19/2025 9:56 AM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:40 FT

NOTES:

- CONTRACTOR TO NOTE EXISTING NO PASSING ZONES AND MATCH THEM.
- SEE SDD STOP LINE AND CROSSWALK PAVEMENT MARKING FOR EXACT LOCATION OF STOP BAR. SEE TYPICAL PAVEMENT MARKING DETAILS FOR ADDITIONAL INFORMATION.



PAVEMENT MARKING LEGEND

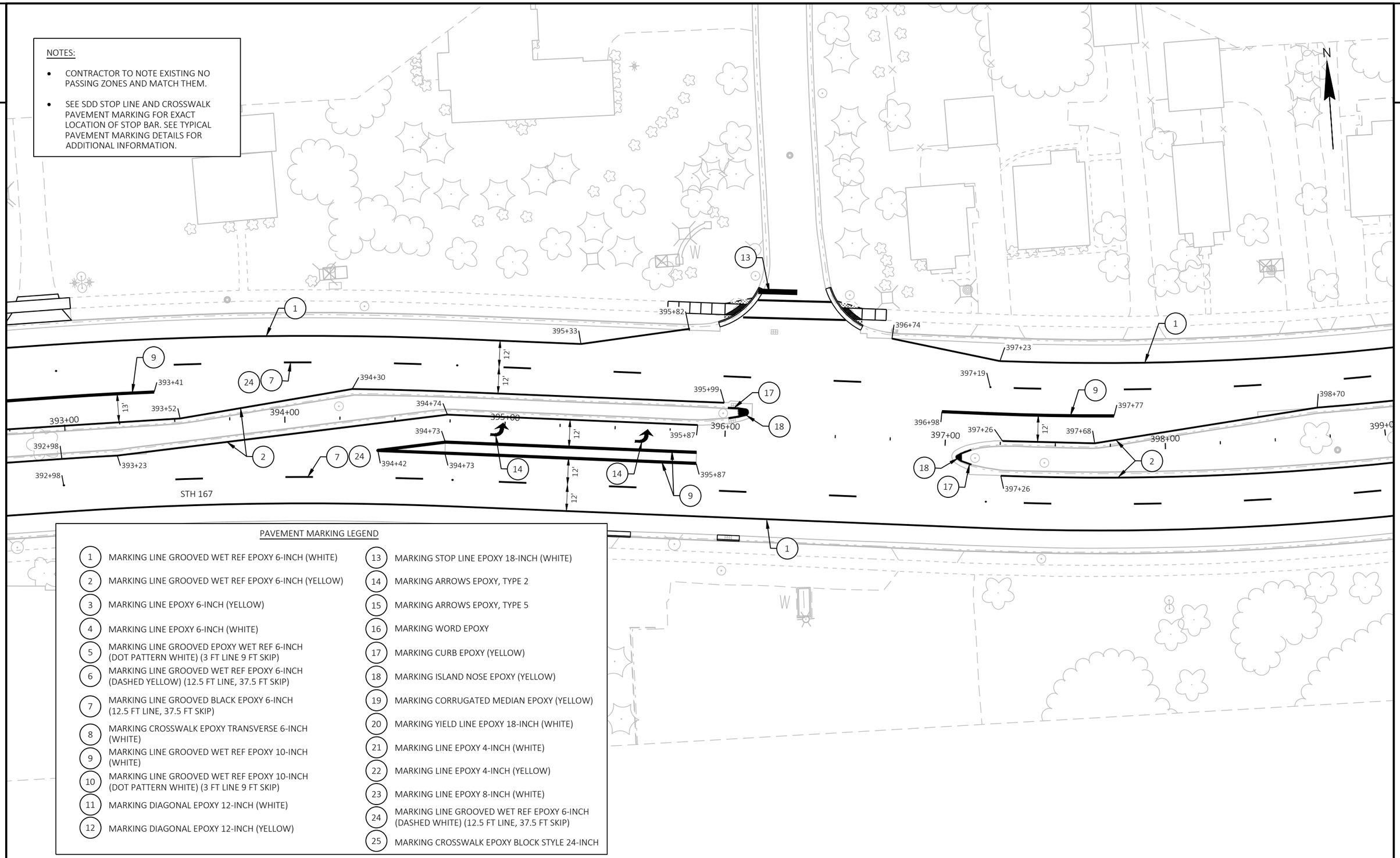
1. MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2. MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
3. MARKING LINE EPOXY 6-INCH (YELLOW)
4. MARKING LINE EPOXY 6-INCH (WHITE)
5. MARKING LINE GROOVED EPOXY WET REF 6-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
6. MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)
7. MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5 FT LINE, 37.5 FT SKIP)
8. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH (WHITE)
9. MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)
10. MARKING LINE GROOVED WET REF EPOXY 10-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
11. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
12. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
13. MARKING STOP LINE EPOXY 18-INCH (WHITE)
14. MARKING ARROWS EPOXY, TYPE 2
15. MARKING ARROWS EPOXY, TYPE 5
16. MARKING WORD EPOXY
17. MARKING CURB EPOXY (YELLOW)
18. MARKING ISLAND NOSE EPOXY (YELLOW)
19. MARKING CORRUGATED MEDIAN EPOXY (YELLOW)
20. MARKING YIELD LINE EPOXY 18-INCH (WHITE)
21. MARKING LINE EPOXY 4-INCH (WHITE)
22. MARKING LINE EPOXY 4-INCH (YELLOW)
23. MARKING LINE EPOXY 8-INCH (WHITE)
24. MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)
25. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PAVEMENT MARKING	SHEET 151	E

FILE NAME : N:\PDS\C3D\13800200\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 35
PLOT DATE : 2/19/2025 9:56 AM
PLOT BY : DE JESUS ORTIZ, N
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

NOTES:

- CONTRACTOR TO NOTE EXISTING NO PASSING ZONES AND MATCH THEM.
- SEE SDD STOP LINE AND CROSSWALK PAVEMENT MARKING FOR EXACT LOCATION OF STOP BAR. SEE TYPICAL PAVEMENT MARKING DETAILS FOR ADDITIONAL INFORMATION.



PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2. MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
3. MARKING LINE EPOXY 6-INCH (YELLOW)
4. MARKING LINE EPOXY 6-INCH (WHITE)
5. MARKING LINE GROOVED EPOXY WET REF 6-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
6. MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)
7. MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5 FT LINE, 37.5 FT SKIP)
8. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH (WHITE)
9. MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)
10. MARKING LINE GROOVED WET REF EPOXY 10-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
11. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
12. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
13. MARKING STOP LINE EPOXY 18-INCH (WHITE)
14. MARKING ARROWS EPOXY, TYPE 2
15. MARKING ARROWS EPOXY, TYPE 5
16. MARKING WORD EPOXY
17. MARKING CURB EPOXY (YELLOW)
18. MARKING ISLAND NOSE EPOXY (YELLOW)
19. MARKING CORRUGATED MEDIAN EPOXY (YELLOW)
20. MARKING YIELD LINE EPOXY 18-INCH (WHITE)
21. MARKING LINE EPOXY 4-INCH (WHITE)
22. MARKING LINE EPOXY 4-INCH (YELLOW)
23. MARKING LINE EPOXY 8-INCH (WHITE)
24. MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)
25. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH

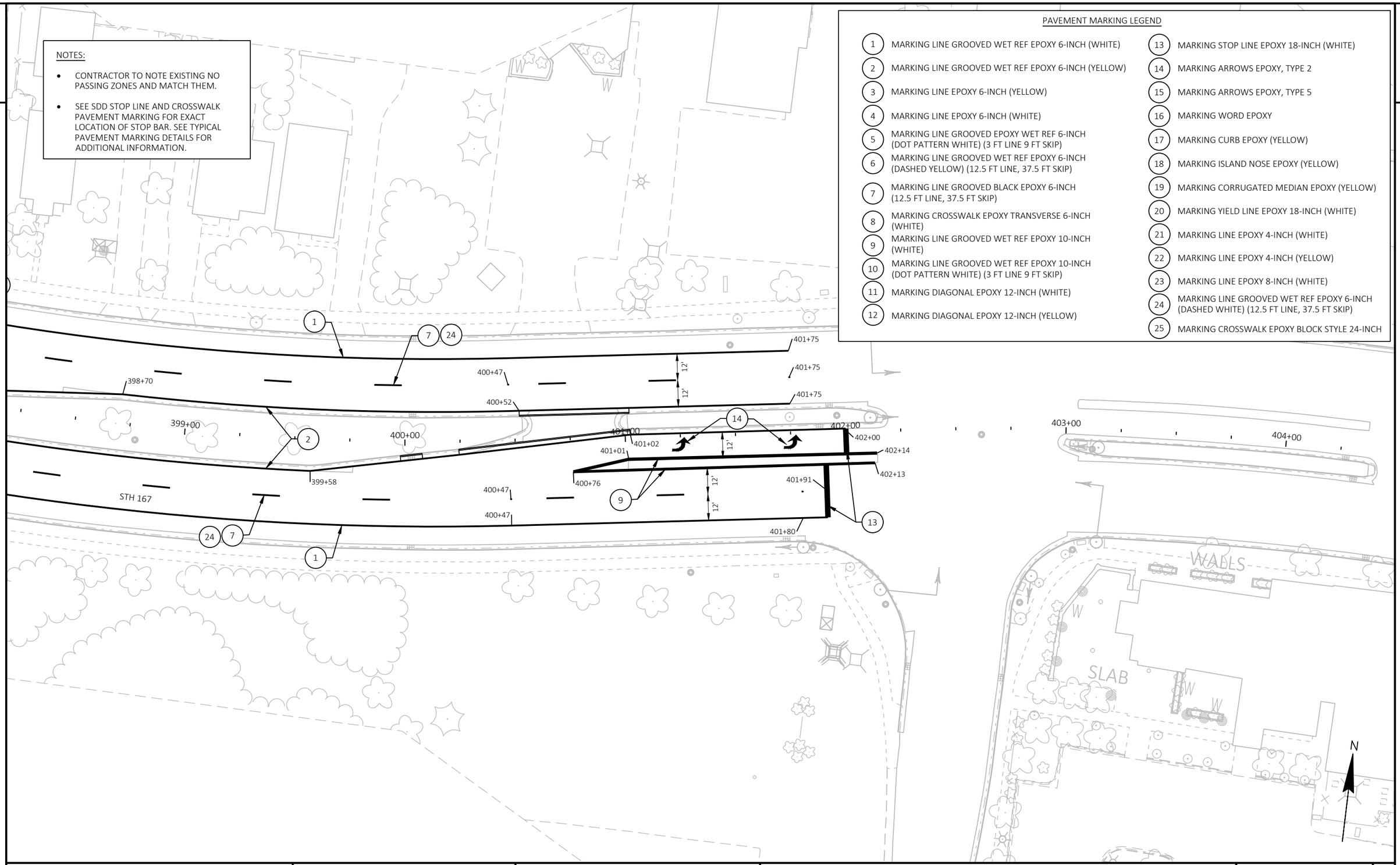
PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PAVEMENT MARKING	SHEET 152	E

NOTES:

- CONTRACTOR TO NOTE EXISTING NO PASSING ZONES AND MATCH THEM.
- SEE SDD STOP LINE AND CROSSWALK PAVEMENT MARKING FOR EXACT LOCATION OF STOP BAR. SEE TYPICAL PAVEMENT MARKING DETAILS FOR ADDITIONAL INFORMATION.

PAVEMENT MARKING LEGEND

1. MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
2. MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)
3. MARKING LINE EPOXY 6-INCH (YELLOW)
4. MARKING LINE EPOXY 6-INCH (WHITE)
5. MARKING LINE GROOVED EPOXY WET REF 6-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
6. MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED YELLOW) (12.5 FT LINE, 37.5 FT SKIP)
7. MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5 FT LINE, 37.5 FT SKIP)
8. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH (WHITE)
9. MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)
10. MARKING LINE GROOVED WET REF EPOXY 10-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
11. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
12. MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
13. MARKING STOP LINE EPOXY 18-INCH (WHITE)
14. MARKING ARROWS EPOXY, TYPE 2
15. MARKING ARROWS EPOXY, TYPE 5
16. MARKING WORD EPOXY
17. MARKING CURB EPOXY (YELLOW)
18. MARKING ISLAND NOSE EPOXY (YELLOW)
19. MARKING CORRUGATED MEDIAN EPOXY (YELLOW)
20. MARKING YIELD LINE EPOXY 18-INCH (WHITE)
21. MARKING LINE EPOXY 4-INCH (WHITE)
22. MARKING LINE EPOXY 4-INCH (YELLOW)
23. MARKING LINE EPOXY 8-INCH (WHITE)
24. MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE, 37.5 FT SKIP)
25. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH



PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PAVEMENT MARKING	SHEET 153	E

FILE NAME : N:\PDS\C3D\13800200\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 37

PLOT DATE : 2/19/2025 9:56 AM PLOT BY : DE JESUS ORTIZ, N PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

PLACE AT FREISTADT RD (FMS)

VILLAGE OF GERMANTOWN

CITY OF MEQUON

BEGIN PROJECT
STA 199+89.00

** INSTALLING LOOP DETECTOR

** INSTALLING LOOP DETECTOR

** INSTALLING LOOP DETECTOR

BEGIN MILL AND OVERLAY
STA 219+50.00

FOREST DRIVE

S3

D

D

RWA

N ASHBURY WOODS DR

MATCH LINE 252+00

2

NOTES:

1) TRAFFIC CONTROL DEVICES SHALL NOT BE PLACED WITHIN 50 FEET OF RAILROAD RIGHT OF WAY.

2) FLAGGING REQUIRED FOR LOCAL TRAFFIC DURING MILL & OVERLAY IN 2-LANE SECTION.

3) INCLUDE ADDITIONAL DRUMS AND BARRICADES WITHIN THE ROAD CLOSURE AS DIRECTED BY THE ENGINEER).

N

180 185 190 195 200 205 210 215 220 225 230 235 240 245 250

STH 167/MEQUON RD

REPLACE 48-INCH CULVERT PIPE
MAXIMUM 1 WEEK CLOSURE

UNNAMED INTERMITTENT
STREAM (WBIC 18450)

TURN LANE CLOSURES

N WASAUKEE RD

EXISTING TRAFFIC SIGNALS TO BE REPLACED

WASHINGTON COUNTY

OZAUKEE COUNTY

PLACE AT DONGES BAY RD (FMS)

** INSTALLING LOOP DETECTOR

LEGEND

- (D) SEE SDD: BARRICADES AND SIGNS FOR VARIOUS CLOSURES, DETAIL D - ROAD CLOSURE BARRICADE DETAIL
- (E) SEE SDD: BARRICADES AND SIGNS FOR VARIOUS CLOSURES, DETAIL E - LANE CLOSURE BARRICADE DETAIL
- (S3) SEE SDD: BARRICADES AND SIGNS FOR SIDE ROAD CLOSURES, DETAIL 3
- (S4) SEE SDD: BARRICADES AND SIGNS FOR SIDE ROAD CLOSURES, DETAIL 4
- (FMS) FIXED MESSAGE SIGN (SEE CONSTRUCTION DETAIL)
- (RWA) ROAD WORK AHEAD (W20-1A) 48" X 48"
- (A) ACCESS TO LOCAL BUSINESSES (R10-71) 36" X 66"
- ** FLAGGING FOR LOOP DETECTOR INSTALL

(FMS) PLACE AT FREISTADT RD

** INSTALLING LOOP DETECTOR

CITY OF MEQUON

GRANVILLE RD

FARMDALE RD

ASPHALT MILL & OVERLAY

REMOVE RETAINING WALL R-45-42

S3

S4

S4

S4

C-45-0031 TO REMAIN
REPAIR NW WINGWALL

N

MATCH LINE 328+00

255 260 265 270 275 280 285 290 295 300 305 310 315 320 325

STH 167/MEQUON RD

EXISTING TRAFFIC SIGNALS TO BE REPLACED

C-45-0032 TO REMAIN

MINOR RETAINING WALL CAP REPLACEMENT

** INSTALLING LOOP DETECTOR

SUTTON RIDGE DR

RWA

S4

OZAUKEE COUNTY

N SWAN RD

N BRIGHTON PL

MATCH LINE 252+00

(FMS) PLACE AT DONGES BAY RD

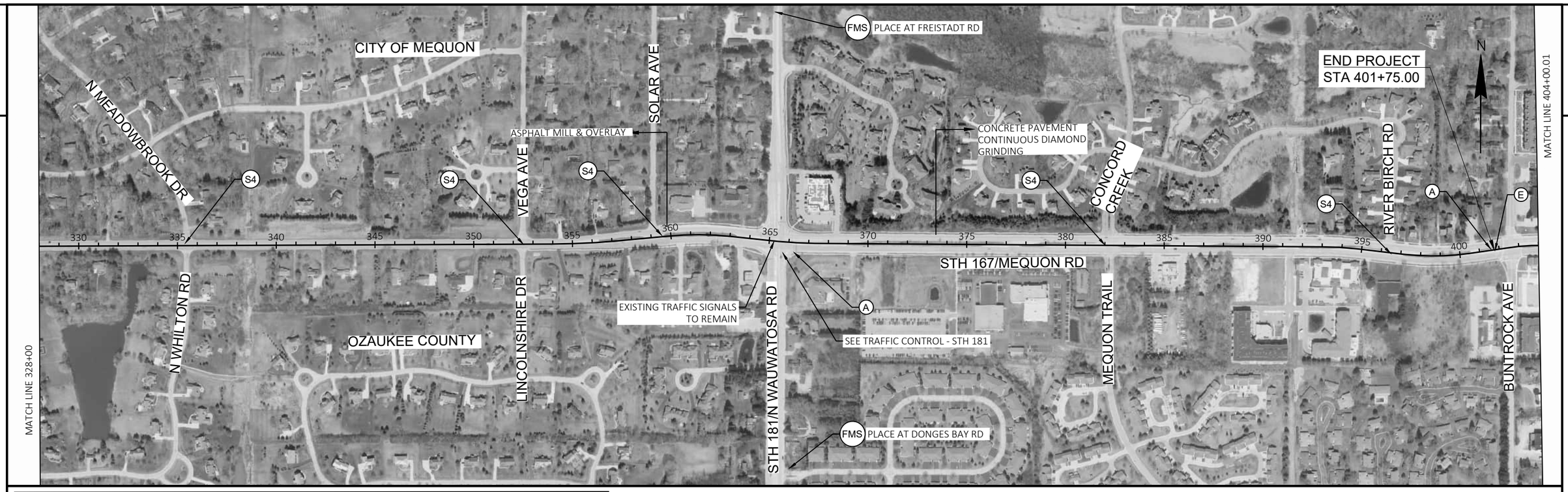
(FMS) PLACE AT DONGES BAY RD

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	TRAFFIC CONTROL OVERVIEW	SHEET 154	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\025100-TC.DWG
LAYOUT NAME - TCOV1

PLOT DATE : 10/31/2024 12:43 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:500 FT

WISDOT/CADDS SHEET 44



LEGEND

- (D) SEE SDD: BARRICADES AND SIGNS FOR VARIOUS CLOSURES, DETAIL D - ROAD CLOSURE BARRICADE DETAIL
- (E) SEE SDD: BARRICADES AND SIGNS FOR VARIOUS CLOSURES, DETAIL E - LANE CLOSURE BARRICADE DETAIL
- (S3) SEE SDD: BARRICADES AND SIGNS FOR SIDE ROAD CLOSURES, DETAIL 3
- (S4) SEE SDD: BARRICADES AND SIGNS FOR SIDE ROAD CLOSURES, DETAIL 4
- (FMS) FIXED MESSAGE SIGN (SEE CONSTRUCTION DETAIL)
- (RWA) ROAD WORK AHEAD (W20-1A) 48" X 48"
- (A) ACCESS TO LOCAL BUSINESSES (R10-71) 36" X 66"
- ** FLAGGING FOR LOOP DETECTOR INSTALL

NOTES:

1) TRAFFIC CONTROL DEVICES SHALL NOT BE PLACED WITHIN 50 FEET OF RAILROAD RIGHT OF WAY.
2) FLAGGING REQUIRED FOR LOCAL TRAFFIC DURING MILL & OVERLAY IN 2-LANE SECTION.
3) INCLUDE ADDITIONAL DRUMS AND BARRICADES WITHIN THE ROAD CLOSURE AS DIRECTED BY THE ENGINEER).

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	TRAFFIC CONTROL OVERVIEW	SHEET 155	E

2

TRAFFIC CONTROL LEGEND

	TYPE III BARRICADE WITH TWO TYPE "A" WARNING LIGHTS
	TYPE III BARRICADE WITH ATTACHED SIGN AND TWO TYPE "A" WARNING LIGHTS
	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
	TRAFFIC CONTROL 42-INCH CONE
	SIGN ON PERMANENT SUPPORT
	SIGN ON TEMPORARY SUPPORT
	WORK AREA
	DIRECTION OF TRAFFIC
6WT	TEMPORARY MARKING LINE, REMOVABLE TAPE 6-INCH (WHITE)
6YT	TEMPORARY MARKING LINE, REMOVABLE TAPE 6-INCH (YELLOW)

NOTES:

- WORK ALONG STH 181 IS LIMITED TO 4 CONSECUTIVE WEEKS
- TRAFFIC SIGNAL AT STH 167 & STH 181 TO BE DEACTIVATED DURING WORK ALONG STH 181
- SEE DETOUR PLAN AND PEDESTRIAN DETOUR PLAN FOR ADDITIONAL INFORMATION
- ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED

2

MATCHLINE "A"

2

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	TRAFFIC CONTROL – STH 181 STAGE 1	SHEET 157	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\025102-TC.DWG
LAYOUT NAME - 01

PLOT DATE : 12/19/2024 12:00 PM PLOT BY : SIEW CHOONG YIP PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

MATCHLINE "A"

2

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	TRAFFIC CONTROL – STH 181 STAGE 1	SHEET 158	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\025102-TC.DWG
LAYOUT NAME - 02

PLOT DATE : 12/19/2024 12:00 PM PLOT BY : SIEW CHOONG YIP PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

MACTH LINE 644+00

MACTH LINE 650+00

N

MATCH LINE 649+20

STA 645+69.56, 14.07' R

STA 646+15.62, -13.39' L

STA 647+15.88, -38.02' L

STA 648+14.63, 25.29' R

STA 648+27.81, -35.01' L

STA 649+46.90, -35.53' L

STA 649+60.33, 36.28' R

R/L STH 181

STH 181 / N WAUWATOSA RD

STH 167 / MEQUON RD

645+00

646+00

647+00

648+00

649+00

650

11'

12'

350'

6WT

6YT

WO1-6
48"X24"

LANE
CLOSED
R11-2L
48"X30"

ROAD
CLOSED
R11-2
48"X30"

WO24-1R

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

R3-2
24"X24"

RIPRAP

SIGN

POST

MH

INL

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	TRAFFIC CONTROL – STH 181 STAGE 1	SHEET 159	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\025102-TC.DWG
LAYOUT NAME - 03

PLOT DATE : 1/2/2025 8:46 AM PLOT BY : SIEW CHOONG YIP PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

R/L STH 167

STH 167 / MEQUON RD

364+00

STA 650+59.03, -25.24' L

WO1-6
48"X24"

R3-2
24"X24"

ROAD CLOSED
TO
THRU TRAFFIC

R11-4
60"X30"

WO24-1A

6WT

6YT

LANE
CLOSED

R11-2
48"X30"

STA 653+74.93, -24.90' L

R/L STH 181

WO1-6
48"X24"

SIGN

MH

INL

12'

STH 181 / N WAUWATOSA RD

MACTH LINE 650+00

365+00

+00

651+00

652+00

653+00

654+00

655+00

656

MACTH LINE 656+00

11'

366+00

STA 651+88.82, 25.92' R

STA 653+37.39, 25.92' R

POST

RIPRAP

400'

6WT

6YT

STA 650+20.33, 42.06' R

STA 651+32.28, 30.59' R

WO1-6
48"X24"

367+00

ROAD
CLOSED

R11-2
48"X30"

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	TRAFFIC CONTROL – STH 181 STAGE 1	SHEET 160	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\025102-TC.DWG
LAYOUT NAME - 04

PLOT DATE : 1/2/2025 8:46 AM PLOT BY : SIEW CHOONG YIP PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

BEGIN LEFT TURN LANE
R3-20L
24"X36"

W01-4R

ROAD WORK AHEAD
W20-1A

450'

STA 656+23.60, -9.74' L

GN

MACTH LINE 656+00

+00

SIGN

6YT

END ROAD WORK
G20-2A
48"X24"

400'

STH 181 / N WAUWATOSA RD

HERON POND DR

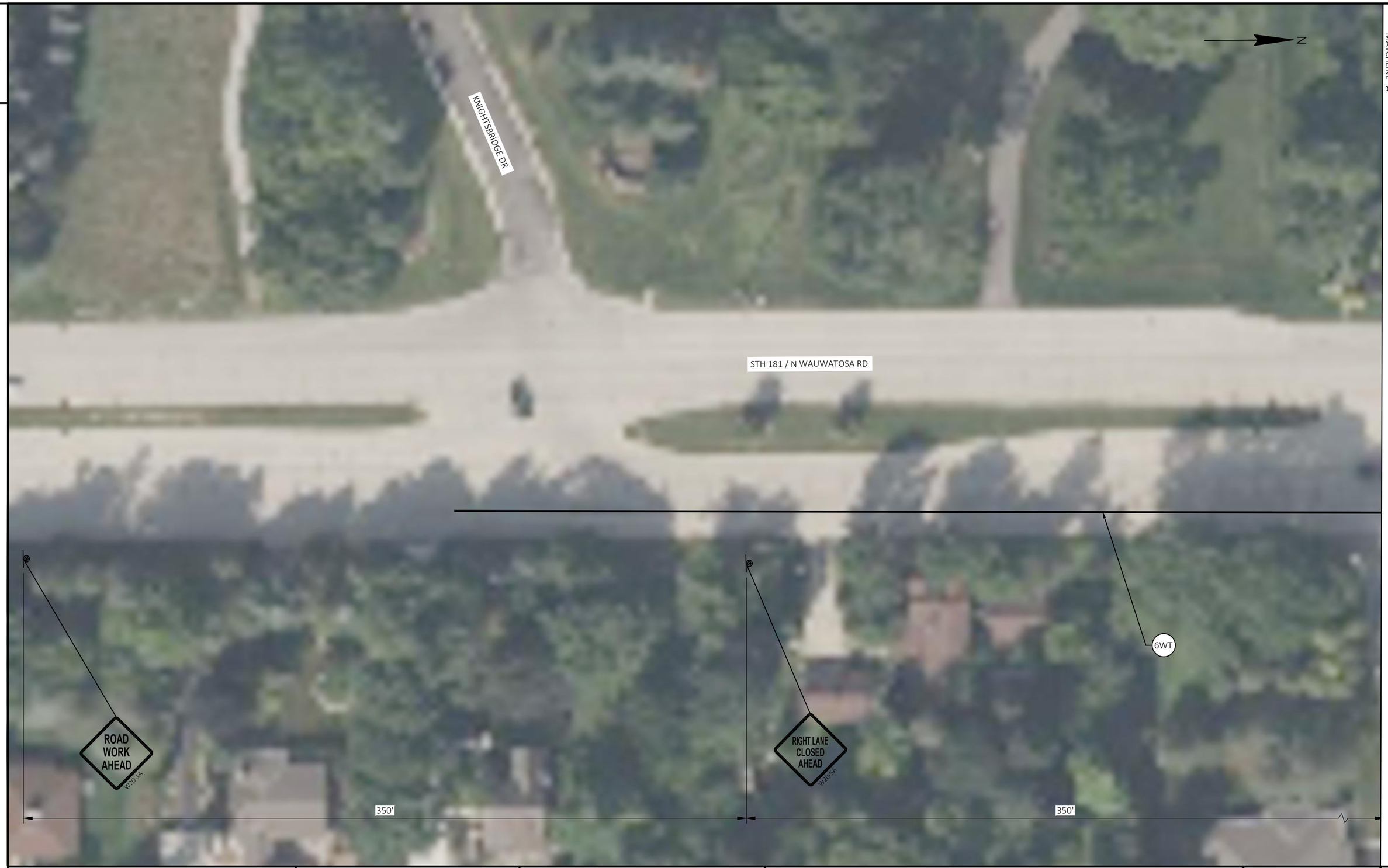
PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	TRAFFIC CONTROL – STH 181 STAGE 1	SHEET 161	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\025102-TC.DWG
LAYOUT NAME - 05

PLOT DATE : 12/19/2024 12:00 PM PLOT BY : SIEW CHOONG YIP PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



2

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	TRAFFIC CONTROL – STH 181 STAGE 2	SHEET 162	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\025201-TC.DWG
LAYOUT NAME - 01

PLOT DATE : 12/19/2024 12:03 PM PLOT BY : SIEW CHOONG YIP PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

MATCHLINE "A"

2

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	TRAFFIC CONTROL – STH 181 STAGE 2	SHEET 163 E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\025201-TC.DWG
LAYOUT NAME - 02

PLOT DATE : 12/19/2024 12:03 PM PLOT BY : SIEW CHOONG YIP PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

MACTH LINE 644+00

MACTH LINE 649+00

MACTH LINE 650+00

STH 181 / N WAUWATOSA RD

STH 167 / MEQUON RD

R/L STH 181

STA 644+61.89, 26.98' R

STA 645+81.89, 26.22' R

STA 646+92.65, 11.28' R

STA 647+57.66, -38.21' L

STA 648+46.16, -24.87' L

STA 649+35.25, -24.77' L

6YT

6WT

11'

645+00

646+00

647+00

648+00

649+00

RIPRAP

SIGN

POST

MH

INL

WO1-4L

35 MPH

WO13-1
36"X36"

WO1-6
48"X24"

LANE CLOSED

R11-2L
48"X30"

WO1-3R

25 MPH

WO13-1
36"X36"

ROAD CLOSED

R11-2
48"X30"

WO1-6
48"X24"

R3-1
24"X24"

R3-2
24"X24"

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	TRAFFIC CONTROL – STH 181 STAGE 2	SHEET 164	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\025201-TC.DWG
LAYOUT NAME - 03

PLOT DATE : 12/19/2024 12:03 PM PLOT BY : SIEW CHOONG YIP PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

R/L STH 167

STA 650+03.73, -0.96' L

WO1-6
48"X24"

R3-2
24"X24"

R3-1
24"X24"

WO1-3R

25
MPH
WO13-1
36"X36"

LANE
CLOSED
R11-2L
48"X30"

STA 650+65.71, -9.86' L

STA 652+41.94, -8.74' L

6WT

R/L STH 181

WO1-6
48"X24"

STA 655+95.29, -17.85' L

STH 181 / N WAUWATOSA RD

364+00

365+00

366+00

367+00

MACTH LINE 650+00

MACTH LINE 656+00

651+00

652+00

653+00

654+00

655+00

10'

6YT

STA 650+73.26, 25.04' R

6WT

R3-2
24"X24"

WO1-6
48"X24"

STA 650+02.57, 10.04' R

WO1-6
48"X24"

ROAD
CLOSED
R11-2
48"X30"

SIGN

MH

INL

POST

RIPRAP

N

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	TRAFFIC CONTROL – STH 181 STAGE 2	SHEET 165	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\025201-TC.DWG
LAYOUT NAME - 04

PLOT DATE : 12/19/2024 12:04 PM PLOT BY : SIEW CHOONG YIP PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

ROAD WORK AHEAD
W20-1A

W01-4L

STH 181 / N WAUWATOSA RD

MACTH LINE 656+00

+00

SIGN

END ROAD WORK
G20-2A
48"X24"

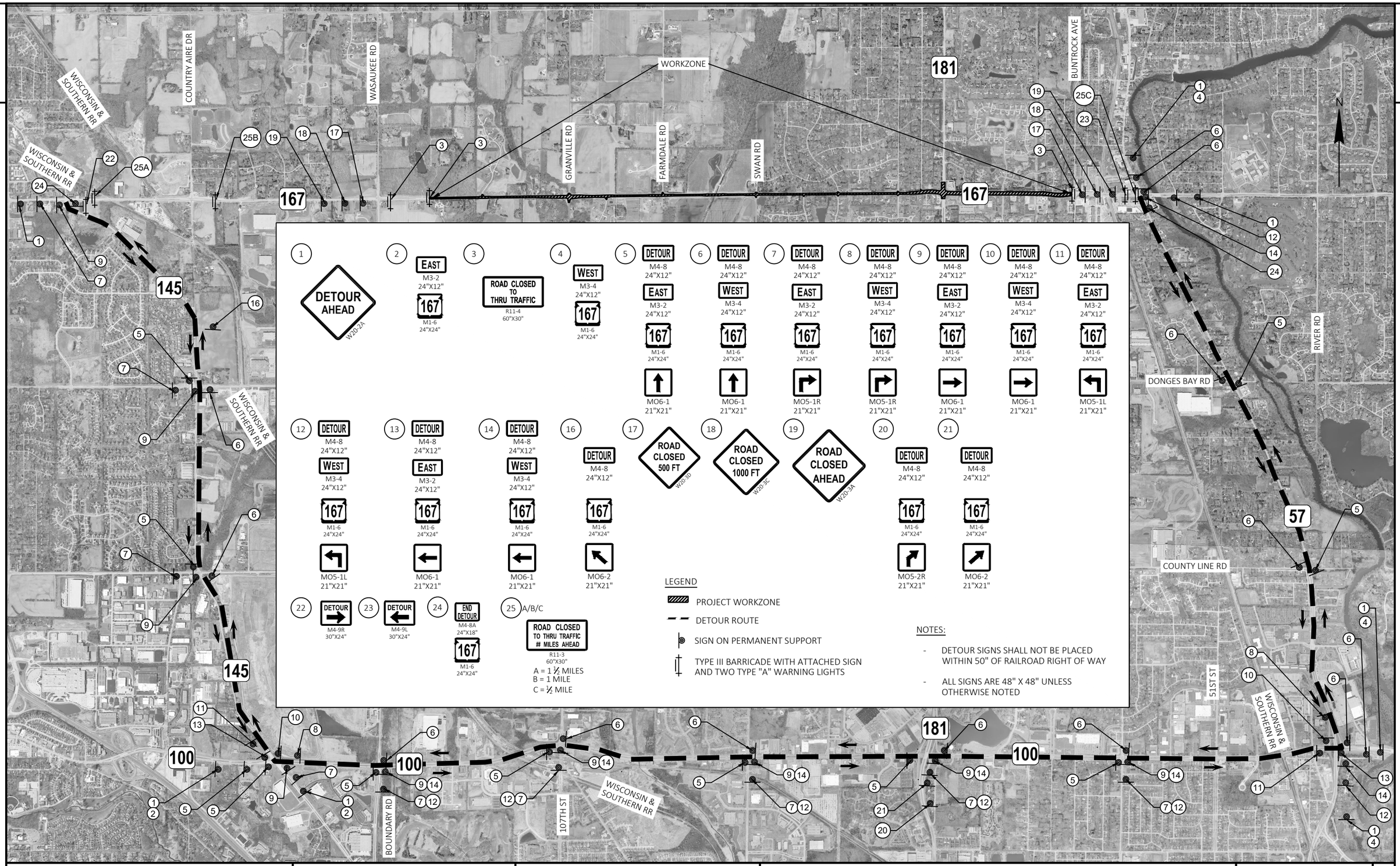
HERON POND DR

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	TRAFFIC CONTROL – STH 181 STAGE 2	SHEET 166	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\025201-TC.DWG
LAYOUT NAME - 05

PLOT DATE : 12/19/2024 12:04 PM PLOT BY : SIEW CHOONG YIP PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	DETOUR PLAN	SHEET 167 E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\027001-DT.DWG
LAYOUT NAME - DT1

PLOT DATE : 12/19/2024 12:09 PM PLOT BY : SIEW CHOONG YIP PLOT NAME : PLOT SCALE : 1 IN:2500 FT

WISDOT/CADDS SHEET 42

2

PEDESTRIAN TRAFFIC CONTROL LEGEND

- OPEN PEDESTRIAN ROUTE
- WORK ZONE
- CR — TEMPORARY PEDESTRIAN CURB RAMP
- DWF — TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD
- TEMPORARY PEDESTRIAN SURFACE ASPHALT
- TEMPORARY PEDESTRIAN BARRICADE
- TRAFFIC CONTROL DRUM
- SIGN ON TEMPORARY SUPPORT
- (6) — TEMPORARY MARKING LINE CROSSWALK, REMOVABLE TAPE 6-INCH

NOTES:

- SEE TRAFFIC CONTROL PLAN AND DETOUR PLAN FOR ADDITIONAL INFORMATION
- SEE STANDARD DETAIL DRAWING: "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION"
- MAINTAIN PEDESTRIAN ACCESS ALONG EXISTING ROUTES OR TEMPORARY ROUTES THROUGHOUT THE DURATION OF THE PROJECT
- TEMPORARY PEDESTRIAN ROUTES ARE SHOWN AT SUGGESTED LOCATIONS. FINAL LOCATIONS AND CONFIGURATIONS TO BE APPROVED BY THE ENGINEER IN THE FIELD
- ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED

2

2

N

VEGA AVE

BERM

SIDEWALK CLOSED
R9-9
24"X12"

SIDEWALK CLOSED
R9-9
24"X12"

SIDEWALK CLOSED
R9-9
24"X12"

M4-60L
30"X24"

M4-60R
30"X24"

M4-60L
30"X24"

STH 167/MEQUON RD

LINCOLNSHIRE DR

350 351 352 353 354 355 356

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PEDESTRIAN DETOUR PLAN	SHEET 169	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\027100-DT.DWG
LAYOUT NAME - 01

PLOT DATE : 10/31/2024 12:45 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

SOLAR AVE

STH 167/MEQUON RD

SIDEWALK CLOSED
R9-9
24"X12"

SIDEWALK CLOSED
R9-9
24"X12"

M4-60R
30"X24"

M4-60L
30"X24"

M4-60R
30"X24"

WELL

WELL

RIPRAP

RIPRAP

RIPRAP

EXISTING R/W

EXISTING R/W

EXISTING R/W

EXISTING R/W

SIGN

SIGN

SIGN

SIGN

SIGN

SIGN

SIGN

SIGN

SIGN

SIGN

SIGN

SIGN

INL

INL

INL

INL

MH

MH

356

357

358

359

360

361

362

SS

SAN(P)

G(P)

G(R)

T

TV

TV(P)

W(P)

POS

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PEDESTRIAN DETOUR PLAN	SHEET 170	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\027100-DT.DWG
LAYOUT NAME - 02

PLOT DATE : 10/31/2024 12:46 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

STH 181/
N WAUWATOSA RD

STH 167/MEQUON RD

EXISTING R/W

EXISTING R/W

EXISTING R/W

M4-60R
30"X24"

M4-60L
30"X24"

M4-60L
30"X24"

W11-2
30"X30"

W16-7L
24"X12"

W11-2
30"X30"

W16-7R
24"X12"

W11-2
30"X30"

W16-7R
24"X12"

W11-2
30"X30"

W16-7L
24"X12"

6'

6

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PEDESTRIAN DETOUR PLAN - STAGE 1	SHEET 171	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\027110-DT.DWG
LAYOUT NAME - 03-1
PLOT DATE : 10/31/2024 12:46 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

N

STH 167/MEQUON RD

STH 181/
N WAUWATOSA RD

EXISTING R/W

EXISTING R/W

EXISTING R/W

W11-2
30"X30"

W16-7L
24"X12"

M4-60D
30"X24"

W11-2
30"X30"

W16-7L
24"X12"

M4-60D
30"X24"

M4-60L
30"X24"

M4-60R
30"X24"

6'

6'

6

6

6

362

363

364

365

366

367

368

650

651

652

SIGN

INL

MH

POST

VACUUM

FILLER CAP

A/C

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PEDESTRIAN DETOUR PLAN - STAGE 2	SHEET 172	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\027120-DT.DWG
LAYOUT NAME - 03-2

PLOT DATE : 10/31/2024 12:47 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

STH 167/MEQUON RD

CONCORD CREEK

MEQUON TRAIL

EXISTING R/W

EXISTING R/W

RIPRAP

TLE

TLE

TLE

M4-60R
30"X24"

SIDEWALK CLOSED
R9-9
24"X12"

SIDEWALK CLOSED
R9-9
24"X12"

M4-60L
30"X24"

SIDEWALK CLOSED
R9-9
24"X12"

M4-60L
30"X24"

M4-60R
30"X24"

6'

6'

6

6

6

378

379

380

381

382

383

SIGN

POST

MH

INL

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PEDESTRIAN DETOUR PLAN	SHEET 173	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\027100-DT.DWG
LAYOUT NAME - 04

PLOT DATE : 10/31/2024 12:47 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

M4-60R
30"X24"

M4-60L
30"X24"

EXISTING R/W

STH 167/MEQUON RD

TLE

M4-60L
30"X24"

M4-60R
30"X24"

SLAB

SLAB

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PEDESTRIAN DETOUR PLAN	SHEET 174	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\027100-DT.DWG
LAYOUT NAME - 05

PLOT DATE : 10/31/2024 12:47 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

M4-60R 30"X24"

M4-60L 30"X24"

M4-60R 30"X24"

M4-60L 30"X24"

STH 167/MEQUON RD

EXISTING R/W

EXISTING R/W

TLE

6

SLAB

SLAB

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PEDESTRIAN DETOUR PLAN	SHEET 175	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\027100-DT.DWG
LAYOUT NAME - 06

PLOT DATE : 10/31/2024 12:47 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

M4-60R
30"X24"

SIDEWALK CLOSED
R9-9
24"X12"

SIDEWALK CLOSED
R9-9
24"X12"

M4-60L
30"X24"

RIVER BIRCH RD

EXISTING R/W

EXISTING R/W

STH 167/MEQUON RD

EXISTING R/W

EXISTING R/W

POST

SIGN

MH

INL

394

395

396

397

398

399

400

6

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PEDESTRIAN DETOUR PLAN	SHEET 176	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\027100-DT.DWG
LAYOUT NAME - 07

PLOT DATE : 10/31/2024 12:47 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

VILLAGE OF GERMANTOWN

CITY OF MEQUON

FOREST DRIVE

BP: 179+00.00

EP: 457+00.00

CP 201

BM 301

SECTION LINE

PC: 193+04.41

PT: 196+96.76

PC: 200+05.40

PT: 203+97.75

PI: 204+91.90

PI: 232+55.11

1/4 LINE

N ASHBURY WOODS DR

MATCH LINE 252+00

CP 200

BM 300

CP 202

CP 204

BM 305

CP 205

180 N89°38'20"E 185 190 195 200 205 210 215 N89°08'06"E 220 225 230 235 N89°22'48"E 240 245 250

1404.41' 2763.22' 2652.60'

STH 167/MEQUON RD

CURVE NUMBER 1

N88°39'29"E 308.65'

CURVE NUMBER 2

BEGIN PROJECT

STA 199+89.00

Y = 366139.339

X= 564354.432

WASHINGTON COUNTY

PI: 450+00.00

N89°38'20"E 94.15'

BM 382

R/L WASAUKEE RD

BP: 443+00.00

N WASAUKEE RD

SECTION LINE

445

450

N0°36'16"W 700.00'

STA 204+91.90 R/L STH 167 =

STA 450+00.00 R/L WASAUKEE RD

BM 302

R/L STH 167

BM 381

BM 304

OZAUKEE COUNTY

1/4 LINE

T 09 N R 20 E: 24 19 25 30

T 09 N R 21 E: 19 19 30 30

N

MATCH LINE 252+00

SECTION LINE

GRANVILLE RD

EP: 557+00.00

PI: 259+07.71

CP 206

555

BM 306

R/L GRANVILLE RD

N89°22'48"E 2652.60'

BM 380

255 260 265 270 N89°18'45"E 275 280 285 290 295 300 305 N89°27'01"E 310 315 N89°35'46"E 320 325

2655.85' 2656.03' 2641.86'

STH 167/MEQUON RD

BM 308

BM 379

N FARMDALE RD

PI: 285+63.56

BM 309

PI: 312+19.59

SECTION LINE

MATCH LINE 328+00

PI: 550+00.00

550

STA 259+07.71 R/L STH 167 =

STA 550+00.00 R/L GRANVILLE RD

CP 207

BM 307

R/L STH 167

CP 208

CP 209

BM 310

CP 210

BM 311

CP 211

CP 212

BM 312

N0°03'28"W 700.00'

545

BP: 543+00.00

SUTTON RIDGE DR

OZAUKEE COUNTY

1/4 LINE

N SWAN RD

N BRIGHTON PL

T 09 N R 21 E: 19 20 30 29

T 09 N R 21 E: 20 20 29 29

T 09 N R 21 E: 20 21 29 28

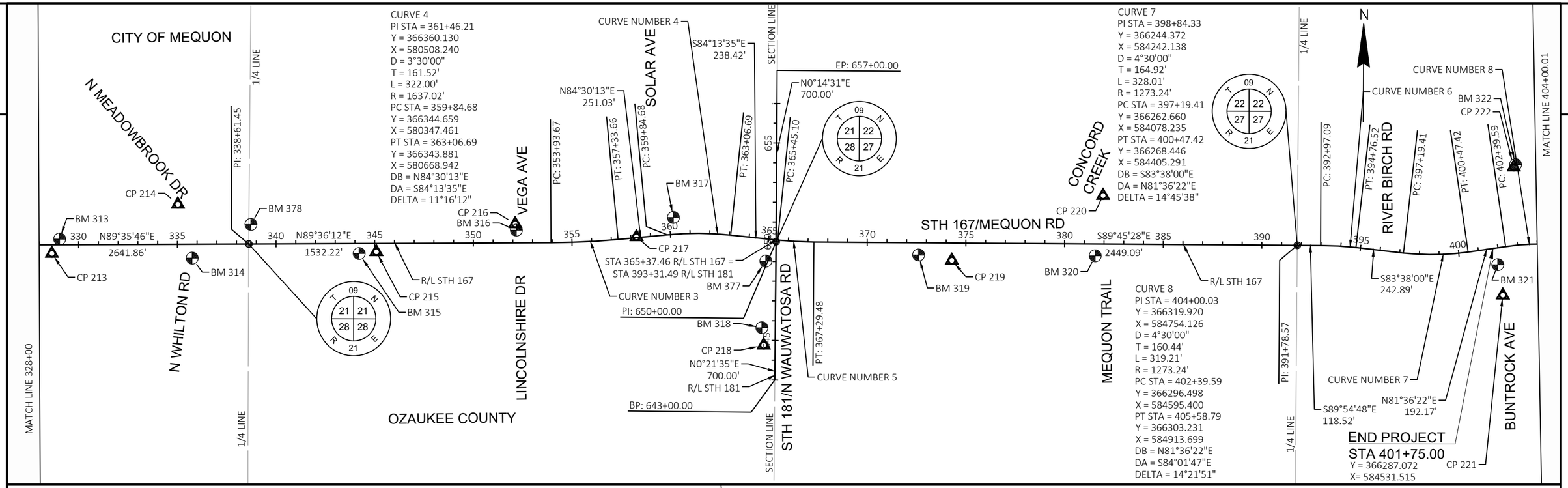
N

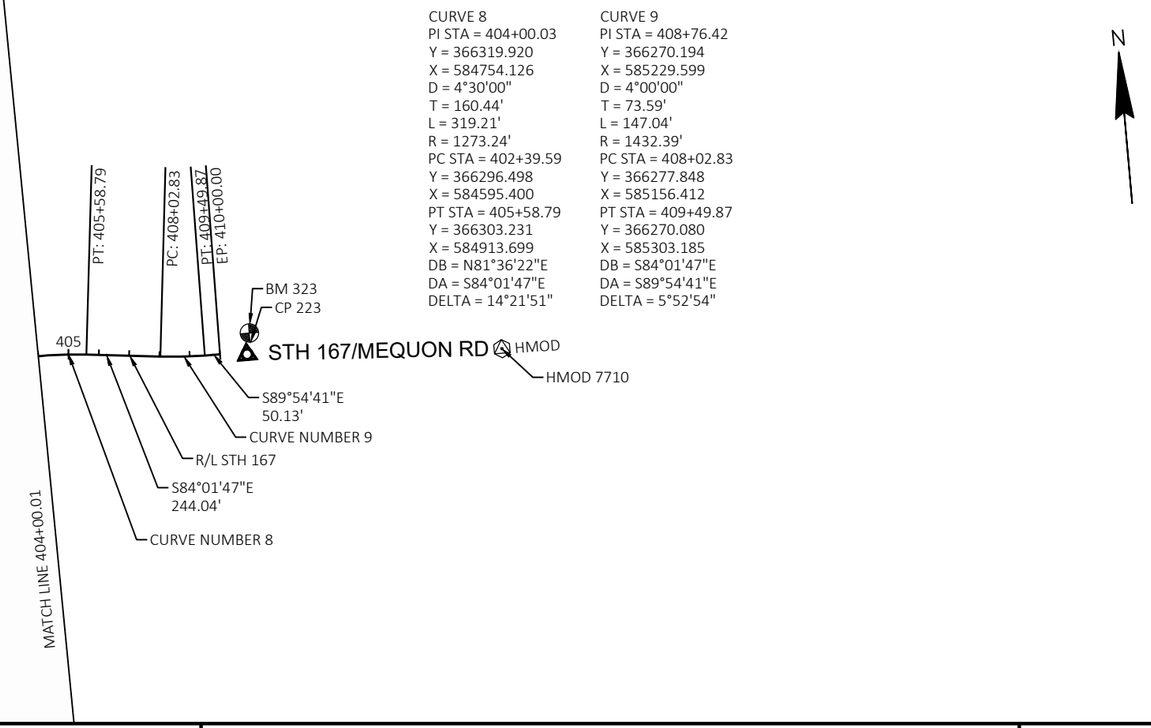
PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	ALIGNMENT PLAN	SHEET 177	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\027201-AD.DWG
LAYOUT NAME - AD1

PLOT DATE : 10/31/2024 12:48 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:500 FT

WISDOT/CADDS SHEET 44





PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	ALIGNMENT PLAN	SHEET 178	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\027201-AD.DWG
LAYOUT NAME - AD2
PLOT DATE : 10/31/2024 12:48 PM
PLOT BY : KARIMULLAH HABIBUR
PLOT NAME :
PLOT SCALE : 1 IN:500 FT
WISDOT/CADDS SHEET 44

2

CONTROL POINTS AND BENCHMARKS				
POINT NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
200	366191.498	563960.286	861.940	CP FENO
201	366710.596	564808.691	850.616	CP FENO
202	366167.131	565778.425	819.073	CP FENO
204	366248.622	568358.199	797.785	CP FENO
205	366249.408	569214.215	794.707	CP FENO
206	366660.248	570241.560	770.320	CP FENO
207	366174.692	571152.975	779.843	CP FENO
208	366177.323	571991.351	762.959	CP FENO
209	366188.900	573721.272	729.518	CP FENO
210	366204.453	574660.607	728.486	CP FENO
211	365976.642	575549.934	747.814	CP FENO
212	366230.183	576489.796	764.810	CP FENO
213	366241.407	577228.788	764.577	CP FENO
214	366491.904	577866.867	760.808	CP FENO
215	366254.159	578873.094	776.057	CP FENO
216	366397.580	579576.312	768.547	CP FENO
217	366333.409	580190.739	750.497	CP FENO
218	365786.964	580836.976	744.248	CP FENO
219	366218.353	581789.211	721.447	CP FENO
220	366549.079	582554.637	709.099	CP FENO
221	366050.160	584581.787	695.026	CP FENO
222	366699.018	584635.398	685.219	CP FENO
223	366263.042	585442.218	673.322	CP FENO
300	366183.192	563846.322	866.359	BM RRSPK S FACE PPOL 15-02877 N SIDE MEQUON RD 1000' W OF WASAUKEE RD
301	366552.946	564889.710	848.091	BM CHSL MRK TOP OF E END OF 24" CONC CULV PIPE E SIDE WASAUKEE RD 390' N OF MEQUON RD
302	366076.236	565729.630	821.546	BM RRSPK N FACE PPOL 09-08532 S SIDE MEQUON RD 870' E OF WASAUKEE RD
304	366136.051	568226.430	800.639	BM NAIL N FACE PPOL 90-31068 S SIDE MEQUON RD 400' E OF ASHBURY WOODS DR HOUSE 11401
305	366267.803	569275.830	796.486	BM RRSPK S FACE PPOL 13-04603 N SIDE MEQUON RD 1000' W OF GRANVILLE RD
306	366644.250	570306.308	771.971	BM RRSPK W FACE PPOL ON E SIDE GRANVILLE RD 420' N OF MEQUON RD
307	366131.302	571253.069	777.406	BM CHSL MRK TOP CONC BASE ELEC TRANS 06-U-1109 SW QUAD SUTTON RIDGE DR AND MEQUON RD BEHIND STONE WALL SIGN
308	366297.940	571815.851	768.564	BM RRSPK S FACE PPOL 90-31087 N SIDE MEQUON RD 470' E OF SUTTON RIDGE DR
309	366317.291	573575.669	730.323	BM NAIL IN S FACE PPOL 90-31095 N SIDE MEQUON RD 640' E OF FARMDALE RD
310	366229.253	574396.399	730.548	BM DISK ON SW COR BOX CULVERT B-45-32-90 LITTLE MENOMINEE RIVER S SIDE MEQUON RD
311	366188.339	575556.769	743.574	BM RRSPK NE FACE LPOL 11-14633 SW QUAD SWAN RD AND MEQUON RD
312	366231.113	576387.910	766.875	BM RRSPK N FACE PPOL 90-04133 S SIDE MEQUON RD 800' E OF SWAN RD
313	366314.277	577268.015	764.088	BM CHSL X S BOLT METAL S45216 SIGN WITH MAST N SIDE MEQUON RD 320' E OF BRIGHTON PL
314	366220.120	577939.501	762.958	BM CHSL X NNW FLANGE BOLT HYD SE QUAD WHILTON RD AND MEQUON RD
315	366245.558	578785.596	772.721	BM RRSPK N FACE PPOL 04-18360 S SIDE MEQUON RD 850' E OF WHILTON RD
316	366366.009	579582.383	768.004	BM RRSPK S FACE PPOL 88-06355 SE QUAD VEGA AVE AND MEQUON RD
317	366432.346	580377.539	748.945	BM CHSL SQR SW COR CONC SIGN FOOTING BLDG 7702 NE QUAD SOLAR AVE AND MEQUON RD
318	365874.989	580827.420	745.509	BM CHS SQR TOP CONC BASE LPOL W SIDE WAUWATOSA RD 450' S OF MEQUON RD
319	366245.241	581620.730	725.325	BM CHSL X NE FLANGE BOLT HYD S SIDE MEQUON RD 720' E OF WAUWATOSA RD
320	366243.915	582515.374	714.372	BM CHSL X NE FLANGE BOLT HYD SW QUAD MEQUON TRAIL AND MEQUON RD
321	366204.660	584555.814	693.437	BM CHSL SQR SW COR UPPER CONC BASE ELEC TRANS SW QUAD BUNTROCK AVE AND MEQUON RD
322	366711.212	584644.739	685.984	BM CHSL X NE FLANGE BOLT HYD SE QUAD SPUR RD AND BUNTROCK AVE
323	366332.422	585454.691	674.230	BM CHSL SQR TOP SE COR CONC RET WALL N SIDE MEQUON RD 40' W OF RR TRACK
377	366212.846	580846.352	742.332	BM CHSL SQR TOP NE SIDE CONC BASE METAL POLE SW QUAD WAUWATOSA RD AND MEQUON RD
378	366391.375	578236.829	768.777	BM CHSL X CENTER OF 3 SW BOLTS FOR TRANS TOWER N SIDE MEQUON RD 320' E OF MEADOWBROOK DR
379	366311.394	572896.972	744.701	BM RRSPK SW FACE PPOL 90-31092 NW QUAD FARMDALE RD AND MEQUON RD
380	366282.287	570333.259	774.885	BM CHSL SQR S COR CONC BASE ELEC TRANS NE QUAD GRANVILLE RD AND MEQUON RD
381	366132.977	567826.709	800.376	BM NAIL N FACE PPOL 90-31068 S SIDE MEQUON RD AT ASHBURY WOODS DR
382	366053.957	564814.400	850.156	BM CHSL X NE BOLT LPOL-TRFC LITE SW QUAD WASAUKEE RD AND MEQUON RD
7711	366255.714	588928.686	695.940	HMOD DE7711

Estimate Of Quantities

1380-02-70

Line	Item	Item Description	Unit	Total	Qty
0002	201.0205	Grubbing	STA	8.000	8.000
0004	203.0100	Removing Small Pipe Culverts	EACH	1.000	1.000
0006	203.0335	Debris Containment Over Waterway (structure) 01. C-45-31	EACH	1.000	1.000
0008	204.0100	Removing Concrete Pavement	SY	793.000	793.000
0010	204.0110	Removing Asphaltic Surface	SY	218.000	218.000
0012	204.0115	Removing Asphaltic Surface Butt Joints	SY	110.000	110.000
0014	204.0120	Removing Asphaltic Surface Milling	SY	64,600.000	64,600.000
0016	204.0150	Removing Curb & Gutter	LF	1,011.000	1,011.000
0018	204.0155	Removing Concrete Sidewalk	SY	243.000	243.000
0020	204.0195	Removing Concrete Bases	EACH	24.000	24.000
0022	204.0220	Removing Inlets	EACH	1.000	1.000
0024	204.0245	Removing Storm Sewer (size) 01. 18-Inch	LF	17.000	17.000
0026	204.9060.S	Removing (item description) 01. Retaining Wall R-45-42	EACH	1.000	1.000
0028	204.9060.S	Removing (item description) 02. (Traffic Signals Sth 167 & Granville Rd.)	EACH	1.000	1.000
0030	204.9060.S	Removing (item description) 03. (Traffic Signals Sth 167 & Wasaukee Rd.)	EACH	1.000	1.000
0032	204.9060.S	Removing (item description) 04. (Loop Detector Wire & Lead-In Cable Sth 167 & Granville Rd.)	EACH	1.000	1.000
0034	204.9060.S	Removing (item description) 05. (Loop Detector Wire & Lead-In Cable Sth 167 & Granville Rd.)	EACH	1.000	1.000
0036	205.0100	Excavation Common	CY	1,237.000	1,237.000
0038	209.1100	Backfill Granular Grade 1	CY	100.000	100.000
0040	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	79.000	79.000
0042	213.0100	Finishing Roadway (project) 01. 1380-02-70	EACH	1.000	1.000
0044	305.0110	Base Aggregate Dense 3/4-Inch	TON	1,000.000	1,000.000
0046	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	3,140.000	3,140.000
0048	305.0500	Shaping Shoulders	STA	147.000	147.000
0050	390.0405	Base Patching Concrete SHES	CY	4.000	4.000
0052	416.0610	Drilled Tie Bars	EACH	1,905.000	1,905.000
0054	416.0620	Drilled Dowel Bars	EACH	7,587.000	7,587.000
0056	416.1710	Concrete Pavement Repair	SY	3,009.000	3,009.000
0058	416.1715	Concrete Pavement Repair SHES	SY	100.000	100.000
0060	416.1720	Concrete Pavement Replacement	SY	2,461.000	2,461.000
0062	420.1000	Continuous Diamond Grinding Concrete Pavement	SY	24,022.000	24,022.000
0064	455.0605	Tack Coat	GAL	4,510.000	4,510.000
0066	460.2000	Incentive Density HMA Pavement	DOL	3,029.000	3,029.000
0068	460.6223	HMA Pavement 3 MT 58-28 S	TON	223.000	223.000
0070	460.6224	HMA Pavement 4 MT 58-28 S	TON	7,049.000	7,049.000
0072	465.0110	Asphaltic Surface Patching	TON	163.000	163.000
0074	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	44.000	44.000
0076	509.1500	Concrete Surface Repair	SF	19.000	19.000
0078	520.8000	Concrete Collars for Pipe	EACH	1.000	1.000
0080	522.0154	Culvert Pipe Reinforced Concrete Class III 54-Inch	LF	72.000	72.000
0082	522.1012	Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	EACH	1.000	1.000
0084	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	2.000	2.000
0086	522.1054	Apron Endwalls for Culvert Pipe Reinforced Concrete 54-Inch	EACH	2.000	2.000
0088	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	752.000	752.000
0090	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	639.000	639.000
0092	602.0410	Concrete Sidewalk 5-Inch	SF	25,552.000	25,552.000
0094	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	120.000	120.000

1380-02-70

Line	Item	Item Description	Unit	Total	Qty
0096	602.0605	Curb Ramp Detectable Warning Field Radial Yellow	SF	202.000	202.000
0098	602.0815	Concrete Driveway 7-Inch	SY	196.000	196.000
0100	606.0200	Riprap Medium	CY	1.000	1.000
0102	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	37.000	37.000
0104	608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	LF	130.000	130.000
0106	608.0418	Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	LF	12.000	12.000
0108	611.0420	Reconstructing Manholes	EACH	3.000	3.000
0110	611.0430	Reconstructing Inlets	EACH	22.000	22.000
0112	611.0530	Manhole Covers Type J	EACH	1.000	1.000
0114	611.0624	Inlet Covers Type H	EACH	1.000	1.000
0116	611.0642	Inlet Covers Type MS	EACH	1.000	1.000
0118	611.2004	Manholes 4-FT Diameter	EACH	1.000	1.000
0120	611.3004	Inlets 4-FT Diameter	EACH	1.000	1.000
0122	611.3901	Inlets Median 1 Grate	EACH	1.000	1.000
0124	611.8110	Adjusting Manhole Covers	EACH	4.000	4.000
0126	611.8115	Adjusting Inlet Covers	EACH	15.000	15.000
0128	611.8120.S	Cover Plates Temporary	EACH	7.000	7.000
0130	614.0010	Barrier System Grading Shaping Finishing	EACH	1.000	1.000
0132	614.0400	Adjusting Steel Plate Beam Guard	LF	100.000	100.000
0134	614.0950	Replacing Guardrail Posts and Blocks	EACH	7.000	7.000
0136	614.0951	Replacing Guardrail Rail and Hardware	LF	100.000	100.000
0138	616.0700.S	Fence Safety	LF	500.000	500.000
0140	618.0100	Maintenance and Repair of Haul Roads (project) 01. 1380-02-70	EACH	1.000	1.000
0142	619.1000	Mobilization	EACH	1.000	1.000
0144	620.0300	Concrete Median Sloped Nose	SF	107.000	107.000
0146	624.0100	Water	MGAL	30.000	30.000
0148	625.0100	Topsoil	SY	6,688.000	6,688.000
0150	627.0200	Mulching	SY	6,688.000	6,688.000
0152	628.1104	Erosion Bales	EACH	100.000	100.000
0154	628.1504	Silt Fence	LF	1,579.000	1,579.000
0156	628.1520	Silt Fence Maintenance	LF	1,579.000	1,579.000
0158	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000
0160	628.1910	Mobilizations Emergency Erosion Control	EACH	6.000	6.000
0162	628.2006	Erosion Mat Urban Class I Type A	SY	5,830.000	5,830.000
0164	628.2008	Erosion Mat Urban Class I Type B	SY	858.000	858.000
0166	628.7005	Inlet Protection Type A	EACH	13.000	13.000
0168	628.7010	Inlet Protection Type B	EACH	5.000	5.000
0170	628.7020	Inlet Protection Type D	EACH	210.000	210.000
0172	628.7555	Culvert Pipe Checks	EACH	13.000	13.000
0174	628.7570	Rock Bags	EACH	100.000	100.000
0176	629.0210	Fertilizer Type B	CWT	9.000	9.000
0178	630.0130	Seeding Mixture No. 30	LB	304.000	304.000
0180	630.0200	Seeding Temporary	LB	182.000	182.000
0182	630.0500	Seed Water	MGAL	150.000	150.000
0184	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	38.000	38.000
0186	637.2210	Signs Type II Reflective H	SF	379.680	379.680
0188	637.2215	Signs Type II Reflective H Folding	SF	104.520	104.520
0190	637.2230	Signs Type II Reflective F	SF	220.000	220.000
0192	638.2102	Moving Signs Type II	EACH	49.000	49.000

1380-02-70

Line	Item	Item Description	Unit	Total	Qty
0194	638.3000	Removing Small Sign Supports	EACH	18.000	18.000
0196	642.5001	Field Office Type B	EACH	1.000	1.000
0198	643.0300	Traffic Control Drums	DAY	29,703.000	29,703.000
0200	643.0420	Traffic Control Barricades Type III	DAY	10,019.000	10,019.000
0202	643.0705	Traffic Control Warning Lights Type A	DAY	20,038.000	20,038.000
0204	643.0715	Traffic Control Warning Lights Type C	DAY	1,033.000	1,033.000
0206	643.0800	Traffic Control Arrow Boards	DAY	28.000	28.000
0208	643.0900	Traffic Control Signs	DAY	42,547.000	42,547.000
0210	643.0920	Traffic Control Covering Signs Type II	EACH	10.000	10.000
0212	643.1000	Traffic Control Signs Fixed Message	SF	105.000	105.000
0214	643.1050	Traffic Control Signs PCMS	DAY	128.000	128.000
0216	643.1070	Traffic Control Cones 42-Inch	DAY	298.000	298.000
0218	643.3180	Temporary Marking Line Removable Tape 6-Inch	LF	7,495.000	7,495.000
0220	643.3350	Temporary Marking Crosswalk Removable Tape 6-inch	LF	809.000	809.000
0222	643.5000	Traffic Control	EACH	1.000	1.000
0224	644.1410	Temporary Pedestrian Surface Asphalt	SF	2,752.000	2,752.000
0226	644.1601	Temporary Pedestrian Curb Ramp	DAY	665.000	665.000
0228	644.1605	Temporary Pedestrian Detectable Warning Field	SF	360.000	360.000
0230	644.1810	Temporary Pedestrian Barricade	LF	3,584.000	3,584.000
0232	645.0120	Geotextile Type HR	SY	52.000	52.000
0234	646.1020	Marking Line Epoxy 4-Inch	LF	3,016.000	3,016.000
0236	646.2020	Marking Line Epoxy 6-Inch	LF	466.000	466.000
0238	646.2025	Marking Line Grooved Black Epoxy 6-Inch	LF	4,549.000	4,549.000
0240	646.2040	Marking Line Grooved Wet Ref Epoxy 6-Inch	LF	82,878.000	82,878.000
0242	646.3020	Marking Line Epoxy 8-Inch	LF	1,058.000	1,058.000
0244	646.4040	Marking Line Grooved Wet Ref Epoxy 10-Inch	LF	8,362.000	8,362.000
0246	646.5020	Marking Arrow Epoxy	EACH	61.000	61.000
0248	646.5120	Marking Word Epoxy	EACH	16.000	16.000
0250	646.6120	Marking Stop Line Epoxy 18-Inch	LF	758.000	758.000
0252	646.6220	Marking Yield Line Epoxy 18-Inch	EACH	57.000	57.000
0254	646.7120	Marking Diagonal Epoxy 12-Inch	LF	1,866.000	1,866.000
0256	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	1,865.000	1,865.000
0258	646.7520	Marking Crosswalk Epoxy Block Style 24-Inch	LF	114.000	114.000
0260	646.8020	Marking Corrugated Median Epoxy	SF	2,304.000	2,304.000
0262	646.8120	Marking Curb Epoxy	LF	310.000	310.000
0264	646.8220	Marking Island Nose Epoxy	EACH	26.000	26.000
0266	650.4000	Construction Staking Storm Sewer	EACH	3.000	3.000
0268	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	619.000	619.000
0270	650.6000	Construction Staking Pipe Culverts	EACH	1.000	1.000
0272	650.8000	Construction Staking Resurfacing Reference	LF	20,186.000	20,186.000
0274	650.8501	Construction Staking Electrical Installations (project) 01. 1380-02-70	EACH	1.000	1.000
0276	650.9000	Construction Staking Curb Ramps	EACH	23.000	23.000
0278	650.9500	Construction Staking Sidewalk (project) 01. 1380-02-70	EACH	1.000	1.000
0280	650.9911	Construction Staking Supplemental Control (project) 01. 1380-02-70	EACH	1.000	1.000
0282	650.9920	Construction Staking Slope Stakes	LF	4,789.000	4,789.000
0284	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	1,506.000	1,506.000
0286	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	1,283.000	1,283.000
0288	652.0605	Conduit Special 2-Inch	LF	1,380.000	1,380.000
0290	652.0615	Conduit Special 3-Inch	LF	1,557.000	1,557.000

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Line	Item	Item Description	Unit	Total	Qty
0292	652.0800	Conduit Loop Detector	LF	3,440.000	3,440.000
0294	653.0135	Pull Boxes Steel 24x36-Inch	EACH	10.000	10.000
0296	653.0140	Pull Boxes Steel 24x42-Inch	EACH	31.000	31.000
0298	653.0905	Removing Pull Boxes	EACH	33.000	33.000
0300	654.0101	Concrete Bases Type 1	EACH	8.000	8.000
0302	654.0102	Concrete Bases Type 2	EACH	4.000	4.000
0304	654.0110	Concrete Bases Type 10	EACH	2.000	2.000
0306	654.0120	Concrete Bases Type 10-Special	EACH	6.000	6.000
0308	654.0217	Concrete Control Cabinet Bases Type 9 Special	EACH	2.000	2.000
0310	655.0230	Cable Traffic Signal 5-14 AWG	LF	905.000	905.000
0312	655.0240	Cable Traffic Signal 7-14 AWG	LF	632.000	632.000
0314	655.0260	Cable Traffic Signal 12-14 AWG	LF	4,747.000	4,747.000
0316	655.0270	Cable Traffic Signal 15-14 AWG	LF	317.000	317.000
0318	655.0320	Cable Type UF 2-10 AWG Grounded	LF	1,658.000	1,658.000
0320	655.0515	Electrical Wire Traffic Signals 10 AWG	LF	2,805.000	2,805.000
0322	655.0610	Electrical Wire Lighting 12 AWG	LF	1,728.000	1,728.000
0324	655.0700	Loop Detector Lead In Cable	LF	11,660.000	11,660.000
0326	655.0800	Loop Detector Wire	LF	8,166.000	8,166.000
0328	655.0900	Traffic Signal EVP Detector Cable	LF	1,928.000	1,928.000
0330	656.0201	Electrical Service Meter Breaker Pedestal (location) 01. STH 167 & Granville Rd.	EACH	1.000	1.000
0332	656.0201	Electrical Service Meter Breaker Pedestal (location) 02. STH 167 & Wasaukee Rd.	EACH	1.000	1.000
0334	657.0100	Pedestal Bases	EACH	8.000	8.000
0336	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	4.000	4.000
0338	657.0310	Poles Type 3	EACH	4.000	4.000
0340	657.0420	Traffic Signal Standards Aluminum 13-FT	EACH	2.000	2.000
0342	657.0425	Traffic Signal Standards Aluminum 15-FT	EACH	8.000	8.000
0344	657.0610	Luminaire Arms Single Member 4 1/2-Inch Clamp 6-FT	EACH	8.000	8.000
0346	658.0173	Traffic Signal Face 3S 12-Inch	EACH	24.000	24.000
0348	658.0174	Traffic Signal Face 4S 12-Inch	EACH	16.000	16.000
0350	658.5070	Signal Mounting Hardware (location) 01. (Sth 167 & Granville Rd.)	EACH	1.000	1.000
0352	658.5070	Signal Mounting Hardware (location) 02. (Sth 167 & Wasaukee Rd.)	EACH	1.000	1.000
0354	659.1125	Luminaires Utility LED C	EACH	12.000	12.000
0356	659.5000.S	Lamp, Ballast, LED, Switch Disposal by Contractor	EACH	54.000	54.000
0358	661.0201	Temporary Traffic Signals for Intersections (location) 01. (Sth 167 & Granville Rd.)	EACH	1.000	1.000
0360	661.0201	Temporary Traffic Signals for Intersections (location) 02. (Sth 167 & Wausakee Rd.)	EACH	1.000	1.000
0362	661.0300	Generators	DAY	2.000	2.000
0364	677.0200	Install Camera Assembly	EACH	2.000	2.000
0366	690.0150	Sawing Asphalt	LF	2,376.000	2,376.000
0368	690.0250	Sawing Concrete	LF	15,590.000	15,590.000
0370	740.0440	Incentive IRI Ride	DOL	15,293.000	15,293.000
0372	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	1,200.000	1,200.000
0374	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	4,320.000	4,320.000
0376	SPV.0060	Special 01. Transp & Install State Furnished Traf Sig Cabinet at Sth 167 & Granville Rd	EACH	1.000	1.000
0378	SPV.0060	Special 02. Transp & Install State Furnished Traf Sig Cabinet at Sth 167 & Wasaukee Rd	EACH	1.000	1.000
0380	SPV.0060	Special 03. Remove & Install Wireless Communication Equipment at STH 167 & Granville Rd	EACH	1.000	1.000
0382	SPV.0060	Special 04. Remove & Install Wireless Communication Equipment at Sth 167 & Wasaukee Rd	EACH	1.000	1.000
0384	SPV.0060	Special 06. Cleaning Manhole	EACH	12.000	12.000

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Line	Item	Item Description	Unit	Total	Qty
0386	SPV.0060	Special 07. Cleaning Inlet	EACH	59.000	59.000
0388	SPV.0060	Special 08. Adjusting City of Mequon Sanitary Sewer Manhole Covers	EACH	2.000	2.000
0390	SPV.0060	Special 09. Adjusting Mequon Water Utility Water Boxes	EACH	2.000	2.000
0392	SPV.0060	Special 10. Strapping (C-45-31)	EACH	1.000	1.000
0394	SPV.0060	Special 11. Temporary Water Diversion Little Menomonee Creek	EACH	1.000	1.000
0396	SPV.0060	Special 13. Utility Line Opening	EACH	5.000	5.000
0398	SPV.0060	Special 15. Trn & Inst State Furn EVP Det Heads w/Conf Beacons at Sth 167 & Granville Rd	EACH	1.000	1.000
0400	SPV.0060	Special 16. Trn & Inst State Furn EVP Det Heads W/Conf Beacons at Sth 167 & Wasaukee Rd	EACH	1.000	1.000
0402	SPV.0060	Special 17. Transport & Install State Furnished Luminaire Arms Steel 15-Ft	EACH	4.000	4.000
0404	SPV.0060	Special 18. Transport & Install State Furnished Poles Type 9 Special	EACH	4.000	4.000
0406	SPV.0060	Special 19. Transport & Install State Furnished Poles Type 10	EACH	2.000	2.000
0408	SPV.0060	Special 20. Transport & Install State Furnished Poles Type 10 Special	EACH	2.000	2.000
0410	SPV.0060	Special 21. Transport & Install State Furnished Monotube Arms 30-Ft	EACH	2.000	2.000
0412	SPV.0060	Special 22. Transport & Install State Furnished Monotube Arms 40-Ft Special	EACH	1.000	1.000
0414	SPV.0060	Special 23. Transport & Install State Furnished Monotube Arms 45-Ft Special	EACH	5.000	5.000
0416	SPV.0090	Special 01. Minor Retaining Wall Cap Replacement	LF	107.000	107.000
0418	SPV.0195	Special 01. Coarse Aggregate Mix for Stream Bed	TON	14.000	14.000
0420	SPV.0195	Special 02. Asphaltic Repair	TON	2,534.000	2,534.000

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GRUBBING

CATEGORY	ROADWAY	STATION	TO	STATION	OFFSET	201.0205 GRUBBING STA
0010	STH 167	314+00	-	316+00	LT	2
0010	STH 167	326+75	-	328+00	LT	2
0010	STH 167	345+00	-	346+25	LT	2
0010	STH 167	355+50	-	356+15	LT	2
		TOTAL CAT 0010				8

REMOVALS

CATEGORY	ROADWAY	STATION	TO	STATION	204.0100 REMOVING CONCRETE PAVEMENT SY	204.0150 REMOVING CURB & GUTTER LF	204.0155 REMOVING CONCRETE SIDEWALK SY
0010	STH 167	199+89	-	214+00	--	--	38
0010	STH 167	243+50	-	258+25	163	--	18
0010	STH 167	258+25	-	273+00	320	--	46
0010	STH 167	302+50	-	317+25	--	29	--
0010	STH 167	317+25	-	332+00	33	--	--
0010	STH 167	332+00	-	346+75	--	120	--
0010	STH 167	346+75	-	361+50	42	260	35
0010	STH 167	376+25		391+00	182	455	72
0010	STH 167	391+00	-	401+75	53	147	34
		TOTAL CAT 0010			793	1,011	243

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DIVISION	FROM/TO STATION	205.0100 EXCAVATION COMMON (1) CUT (2)	205.0100 EXCAVATION COMMON (1) EBS EXCAVATION (3)	SALVAGED/UNUSABLE PAVEMENT MATERIAL (4)	AVAILABLE MATERIAL (5)	UNEXPANDED FILL	EXPANDED FILL (13) FACTOR 1.00	MASS ORDINATE +/- (14)	WASTE	COMMENT
CAT 0010										
CURB RAMPS		150	0	0	150	0	0	150	150	
CATEGORY 0010 TOTALS		150	0	0	150	0	0	150	150	
CAT 0020										
SWAN TO MEADOWBROOK	312+88.00/334+96.00	617	0	0	617	105	105	512	512	
MEADOWBROOK TO VEGA	335+96.00/351+98.00	365	0	0	365	8	8	357	357	
VEGA TO SOLAR	353+00.00/358+77.00	105	0	0	105	75	75	30	30	
CATEGORY 0020 TOTALS		1,087	0	0	1,087	188	188	899	899	
GRAND TOTALS		1,237	0	0	1,237	188	188	1,049	1,049	
TOTAL EXCAVATION COMMON		1,237								

NOTES:

(1) EXCAVATION COMMON 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 GRANULAR BACKFILL.

(4) SALVAGED/UNUSABLE PAVEMENT MATERIAL

5) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSABLE PAVEMENT MATERIAL

(13) EXPANDED FILL FACTOR = 1.00

EXPANDED FILL = (UNEXPANDED FILL) * FILL FACTOR

(14) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

(15) FACTORS USED TO COMPUTE ANTICIPATED WASTE AND THE COMPUTED WASTE VOLUME IDENTIFIED ARE FOR GENERAL INFORMATION ONLY.

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REMOVING ASPHALTIC SURFACE

CATEGORY	ROADWAY	STATION	TO	STATION	204.0110 REMOVING ASPHALTIC SURFACE SY	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY
0010	STH 167	214+00	-	228+75	--	8	3,780
0010	STH 167	228+75	-	243+50	--	7	6,773
0010	STH 167	243+50	-	258+25	--	--	7,695
0010	STH 167	258+25	-	273+00	--	24	10,562
0010	STH 167	273+00	-	287+75	--	7	6,715
0010	STH 167	287+75	-	302+50	--	--	6,109
0010	STH 167	302+50	-	317+25	8	15	7,175
0010	STH 167	317+25	-	332+00	--	5	7,393
0010	STH 167	332+00	-	346+75	33	12	7,603
0010	STH 167	346+75	-	361+50	85	32	795
0010	STH 167	376+25		391+00	55	--	--
0010	STH 167	391+00	-	401+75	37	--	--
	TOTAL CAT 0010				218	110	64,600

REMOVING CULVERTS AND STORM SEWER

CATEGORY	STATION	OFFSET	LOCATION	203.0100 REMOVING SMALL PIPE CULVERTS EACH	204.0220 REMOVING INLETS EACH	204.0245.01 REMOVING STORM SEWER (18-INCH) LF	REMARKS
0010	219+57.98	-37.48'	STH 167	1	--	--	48-INCH
0010	354+19.07	-23.58'	STH 167	--	1	--	
0010	358+85.57	-45.21'	STH 167	--	--	17	
		TOTAL CAT 0010		1	1	17	

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BACKFILL GRANULAR

CATEGORY	LOCATION	209.1100 BACKFILL GRANULAR GRADE 1 CY	REMARKS
0010	STH 67	100	BACKFILL GRANULAR TO BE USED AT LOCATION OF ABANDONED OR REMOVED ITEMS
TOTAL CAT 0010		100	

PREPARE FOUNDATION

CATEGORY	ROADWAY	STATION	TO	STATION	211.0400 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS STA	305.0500 SHAPING SHOULDERS STA
0010	STH 167	219+50	-	233+00	14	14
0010	STH 167	233+00	-	249+50	15	32
0010	STH 167	249+50	-	265+00	--	15
0010	STH 167	265+00	-	280+50	17	26
0010	STH 167	280+50	-	296+00	16	30
0010	STH 167	296+00	-	311+00	17	29
0010	STH 167	311+00	-	327+50	--	1
		TOTAL CAT 0010			79	147

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AGGREGATE

CATEGORY	ROADWAY	STATION	TO	STATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	SPV.0195.01 COARSE AGGREGATE MIX FOR STREAM BED TON	REMARKS
0010	STH 167	199+89	-	209+00	--	10	--	
0010	STH 167	209+00	-	219+50	--	1	--	
0010	STH 167	219+50	-	249+50	--	--	14	FOR USE IN CULVERT PIPE
0010	STH 167	249+50	-	265+00	--	23	--	
0010	STH 167	311+00	-	327+50	--	20	--	
0010	STH 167	327+50	-	344+00	--	33	--	
0010	STH 167	344+00	-	359+85	--	86	--	
0010	STH 167	359+85	-	373+43	--	33	--	
0010	STH 167	373+43	-	387+50	--	106	--	
0010	STH 167	387+50	-	401+75	--	50	--	
0010	STH 167	UNDISTRIBUTED			1,000	2,000	--	FOR USE AT SHAPING SHOULDER AND ASPHALTIC REPAIR LOCATIONS
TOTAL CAT 0010					1,000	2,362	14	
0020	STH 167	312+98	-	359+57	--	778	--	NEW SIDEWALK, EXCLUDING CURB RAMPS
TOTAL CAT 0020					--	778	--	
TOTAL PROJECT 1380-02-70					1,000	3,140	14	

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CONCRETE

CATEGORY	ROADWAY	STATION	TO	STATION	416.1710 CONCRETE PAVEMENT REPAIR SY	416.1715 CONCRETE PAVEMENT REPAIR SHES SY	416.1720 CONCRETE PAVEMENT REPLACEMENT SY	420.1000 CONTINUOUS DIAMOND GRINDING CONCRETE PAVEMENT SY
0010	STH 167	373+43	-	387+50	1,443	--	810	12,181
0010	STH 167	387+50	-	401+75	1,295	--	1,054	11,841
0010	STH 167		UNDISTRIBUTED		--	100	--	--
		TOTAL CAT 0010			2,738	100	1,864	24,022
0120	STH 167	359+85	-	373+43	271	--	597	--
		TOTAL CAT 0120			271	--	597	--
		TOTAL 1380-02-70			3,009	100	2,461	24,022

DRILLED BAR ITEMS

CATEGORY	ROADWAY	STATION	TO	STATION	416.0610 DRILLED TIE BARS EACH	416.0620 DRILLED DOWEL BARS EACH
0010	STH 167	209+00	-	219+50	--	4
0010	STH 167	249+50	-	265+00	--	8
0010	STH 167	311+00	-	327+50	--	32
0010	STH 167	327+50	-	344+00	--	24
0010	STH 167	344+00	-	359+85	--	64
0010	STH 167	373+43	-	387+50	761	3,256
0010	STH 167	387+50	-	401+75	753	3,317
		TOTAL CAT 0010			1,514	6,705
0120	STH 167	359+85	-	373+43	391	882
		TOTAL CAT 0120			391	882
		TOTAL 1380-02-70			1,905	7,587

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HMA PAVEMENT

CATEGORY	ROADWAY	STATION	TO	STATION	455.0605 TACK COAT GAL	460.6223 HMA PAVEMENT 3 MT 58-28 S TON	460.6224 HMA PAVEMENT 4 MT 58-28 S TON
0010	STH 167	219+50	-	233+00	498	39	779
0010	STH 167	233+00	-	249+50	566	43	885
0010	STH 167	249+50	-	265+00	812	--	1,270
0010	STH 167	265+00	-	280+50	494	49	772
0010	STH 167	280+50	-	296+00	450	44	703
0010	STH 167	296+00	-	311+00	528	48	825
0010	STH 167	311+00	-	327+50	544	--	850
0010	STH 167	327+50	-	344+00	559	--	874
0010	STH 167	344+00	-	359+85	59	--	91
	TOTAL CAT 0010				4,510	223	7,049

ASPHALTIC SURFACE

CATEGORY	ROADWAY	STATION	TO	STATION	465.0110 ASPHALTIC SURFACE PATCHING TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	SPV.0195.02 ASPHALTIC REPAIR TON
0010	STH 167	199+89	-	209+00	--	--	386
0010	STH 167	209+00	-	219+50	--	--	13
0010	STH 167	233+00	-	249+50	--	--	631
0010	STH 167	249+50	-	265+00	131	--	439
0010	STH 167	265+00	-	280+50	--	--	420
0010	STH 167	280+50	-	296+00	--	--	421
0010	STH 167	296+00	-	311+00	--	--	224
0010	STH 167	344+00	-	359+85	--	6	--
0010	STH 167	373+43	-	387+50	17	6	--
0010	STH 167	387+50	-	401+75	15	2	--
	TOTAL CAT 0010				163	14	2,534
0020	STH 167	312+98	-	359+57	--	30	--
	TOTAL CAT 0020				--	30	--
	TOTAL PROJECT 1380-02-70				163	44	2534

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CURB & GUTTER

CATEGORY	ROADWAY	STATION	TO	STATION	601.0409 CONCRETE CURB & GUTTER 30-INCH TYPE A LF	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF
0010	STH 167	209+00	-	219+50	--	10
0010	STH 167	249+50	-	265+00	--	20
0010	STH 167	311+00	-	327+50	--	109
0010	STH 167	327+50	-	344+00	--	150
0010	STH 167	344+00	-	359+85	--	350
0010	STH 167	373+43	-	387+50	463	--
0010	STH 167	387+50	-	401+75	289	--
		TOTAL CAT 0010			752	639

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CONCRETE DRIVEWAYS

CATEGORY	ROADWAY	STATION	TO	STATION	602.0815 CONCRETE DRIVEWAY 7-INCH SY
0010	STH 167	344+00	-	359+85	18
0010	STH 167	373+43	-	387+50	94
0010	STH 167	387+50	-	401+75	33
		TOTAL CAT 0010			145
0020	STH 167	312+98	-	359+57	51
		TOTAL CAT 0020			51
		TOTAL PROJECT 1380-02-70			196

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CONCRETE SIDEWALK

CATEGORY	ROADWAY	STATION	TO	STATION	602.0410 CONCRETE SIDEWALK 5-INCH SF	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF	602.0605 CURB RAMP DETECTABLE WARNING FIELD RADIAL YELLOW SF
0010	STH 167	199+89	-	209+00	285	--	--
0010	STH 167	209+00	-	219+50	--	--	--
0010	STH 167	219+50	-	233+00	--	--	--
0010	STH 167	233+00	-	249+50	--	--	--
0010	STH 167	249+50	-	265+00	573	--	--
0010	STH 167	265+00	-	280+50	--	--	--
0010	STH 167	280+50	-	296+00	--	--	--
0010	STH 167	296+00	-	311+00	--	--	--
0010	STH 167	311+00	-	327+50	102	--	20
0010	STH 167	327+50	-	344+00	321	20	50
0010	STH 167	344+00	-	359+85	835	40	67
0010	STH 167	373+43	-	387+50	980	60	33
0010	STH 167	387+50	-	401+75	439	--	32
		TOTAL CAT 0010			3,535	120	202
0020	STH 167	387+50	-	401+75	22,017	--	--
		TOTAL CAT 0020			22,017	--	--
		TOTAL PROJECT 1380-02-70			25552	120	202

STORM SEWER PIPES

LOCATION	FROM	-	TO	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE %	522.0154 CULVERT PIPE REINFORCED CONCRETE CLASS III 54-INCH LF	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	608.0418 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 18-INCH LF
STH 167	101	-	102	798.77	797.51	1.68%	72	--	--	--
STH 167	111	-	112	745.70	745.45	1.70%	--	14	--	--
STH 167	112	-	113	744.95	744.75	1.70%	--	--	--	12
STH 167	113	-	E114	744.75	742.53	1.70%	--	--	130	--
STH 167	121	-	122	758.69	758.55	1.50%	--	9	--	--
STH 167	122	-	E123	758.55	758.08	3.27%	--	14	--	--
TOTAL CAT 0010							72	37	130	12

STORM SEWER STRUCTURES

STRUCTURE	LOCATION	STATION	OFFSET**	RIM*** ELEVATION	INVERT**** ELEVATION	DEPTH***** FT	520.8000 CONCRETE COLLARS FOR PIPE EACH	522.1012 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 12-INCH EACH	522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	522.1054 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 54-INCH EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.0624 INLET COVERS TYPE H EACH	611.0642 INLET COVERS TYPE MS EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3901 INLETS MEDIAN 1 GRATE EACH
101	STH 167	219+57.14	33.84' LT		798.77		--	--	--	1	--	--	--	--	--	--
102	STH 167	219+78.98	37.68' RT		797.51		--	--	--	1	--	--	--	--	--	--
	STH 167	333+49.30	56.20' LT		751.80		--	--	1	--	--	--	--	--	--	--
	STH 167	333+49.34	54.56' RT		752.29		--	--	1	--	--	--	--	--	--	--
111	STH 167	358+82.46	59.35' LT		745.70		--	1	--	--	--	--	--	--	--	--
112	STH 167	358+85.57	45.21' LT	748.29	744.95	2.55	--	--	--	--	--	1	--	--	1	--
113	STH 167	358+97.61	45.30' LT	748.31	744.75	2.53	--	--	--	--	1	--	--	1	--	--
E114	STH 167	359+88.37	48.33' RT	746.23	742.53	2.91	--	--	--	--	--	--	--	--	--	--
121	STH 167	354+18.08	46.53' LT	760.22	758.22	2.00	--	--	--	--	--	--	1	--	--	1
122	STH 167	354+18.32	37.32' LT		758.55		1	--	--	--	--	--	--	--	--	--
E123	STH 167	354+18.93	22.97' LT	760.50	758.08	1.58	--	--	--	--	--	--	--	--	--	--
TOTAL CAT 0010							1	1	2	2	1	1	1	1	1	1

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 - STRUCTURE INVERT ELEVATION - COVER HEIGHT - 6-INCH ADJUSTMENT RING HEIGHT

ADJUSTING MANHOLE AND INLET

CATEGORY	STATION	OFFSET	LOCATION	390.0405 BASE PATCHING CONCRETE SHES CY	611.0420 RECONSTRUCTING MANHOLES EACH	611.0430 RECONSTRUCTING INLETS EACH	611.8110 ADJUSTING MANHOLE COVERS EACH	611.8115 ADJUSTING INLET COVERS EACH	611.8120.S COVER PLATES TEMPORARY EACH	SPV.0060.06 CLEANING MANHOLE EACH	SPV.0060.07 CLEANING INLET EACH
0010	202+25.35	29.06'	STH 167	--	--	--	--	--	--	--	1
0010	202+25.98	-22.76'	STH 167	--	--	--	--	--	--	--	1
0010	202+26.00	-28.63'	STH 167	--	--	--	--	--	--	--	1
0010	203+98.08	-27.73'	STH 167	--	--	--	--	--	--	--	1
0010	203+98.17	-22.09'	STH 167	--	--	--	--	--	--	--	1
0010	204+06.74	-55.79'	STH 167	--	--	--	--	--	--	--	1
0010	204+11.79	-79.17'	STH 167	--	--	--	--	--	--	--	1
0010	204+54.01	-117.23'	STH 167	--	--	--	--	--	--	--	1
0010	207+65.18	-8.22'	STH 167	--	--	--	--	--	--	--	1
0010	207+65.22	-2.05'	STH 167	--	--	--	--	--	--	--	1
0010	211+09.48	-28.18'	STH 167	--	--	1	--	--	--	--	--
0010	256+00.65	3.14'	STH 167	--	--	--	--	--	--	--	1
0010	258+04.42	-4.86'	STH 167	--	--	--	--	--	--	--	1
0010	258+49.87	-5.36'	STH 167	--	--	--	--	1	--	--	--
0010	259+43.27	99.52'	STH 167	--	--	--	--	1	--	--	--
0010	259+71.65	16.89'	STH 167	--	--	1	--	--	--	--	--
0010	259+73.56	35.30'	STH 167	--	--	--	--	--	--	1	--
0010	259+75.06	-40.46'	STH 167	--	--	--	--	--	--	--	1
0010	259+75.86	65.21'	STH 167	--	--	1	--	--	--	--	--
0010	259+98.89	11.38'	STH 167	--	--	--	--	--	--	--	1
0010	259+99.02	15.98'	STH 167	--	--	--	--	--	--	--	1
0010	261+99.64	15.28'	STH 167	--	--	--	--	--	--	--	1
0010	261+99.86	-45.06'	STH 167	--	--	--	--	--	--	1	--
0010	261+99.87	10.82'	STH 167	--	--	--	--	--	--	--	1
0010	262+00.31	43.55'	STH 167	--	--	--	--	--	--	--	1
0010	262+00.71	35.71'	STH 167	--	--	--	1	--	1	--	--
0010	312+10.90	47.37'	STH 167	1	1	--		--	1	--	--
0010	312+62.64	17.00'	STH 167	--	--	--	--	--	--	1	--
0010	312+98.46	-26.09'	STH 167	--	--	1	--	--	--	--	--
0010	314+67.10	15.79'	STH 167	--	--	--	--	--	--	1	--
0010	314+67.15	23.83'	STH 167	--	--	--	--	--	--	--	1
0010	314+67.18	-25.96'	STH 167	--	--	1	--	--	--	--	--
0010	316+45.68	16.00'	STH 167	--	--	--	--	--	--	1	--
0010	316+45.72	-24.00'	STH 167	--	--	1	--	--	--	--	--
0010	316+46.08	23.93'	STH 167	--	--	--	--	--	--	--	1
0010	319+29.33	15.89'	STH 167	--	--	--	--	--	--	1	--
0010	319+37.57	23.77'	STH 167	--	--	--	--	--	--	--	1
0010	319+39.43	-23.94'	STH 167	--	--	--	--	--	--	--	1
0010	321+28.15	23.84'	STH 167	--	--	--	--	1	--	--	--
0010	321+59.47	-23.99'	STH 167	--	--	--	--	1	--	--	--
0010	321+75.67	16.57'	STH 167	--	--	--	--	--	--	1	--
0010	324+54.17	44.80'	STH 167	--	--	--	--	--	--	--	1
0010	324+54.42	15.72'	STH 167	--	--	--	--	--	--	1	--
0010	324+79.88	23.70'	STH 167	--	--	--	--	--	--	--	1
0010	324+80.20	-24.03'	STH 167	--	--	1	--	--	--	--	--

(CONTINUED ON NEXT SHEET)

ADJUSTING MANHOLE AND INLET

CATEGORY	STATION	OFFSET	LOCATION	390.0405 BASE PATCHING CONCRETE SHES CY	611.0420 RECONSTRUCTING MANHOLES EACH	611.0430 RECONSTRUCTING INLETS EACH	611.8110 ADJUSTING MANHOLE COVERS EACH	611.8115 ADJUSTING INLET COVERS EACH	611.8120.S COVER PLATES TEMPORARY EACH	SPV.0060.06 CLEANING MANHOLE EACH	SPV.0060.07 CLEANING INLET EACH
0010	324+88.89	23.81'	STH 167	--	--	--	--	--	--	--	1
0010	324+90.35	-24.10'	STH 167	--	--	1	--	--	--	--	--
0010	326+59.30	-24.07'	STH 167	--	--	--	--	1	--	--	--
0010	326+59.64	24.01'	STH 167	--	--	--	--	--	--	--	1
0010	328+24.07	-24.04'	STH 167	--	--	--	--	--	--	--	1
0010	328+25.01	23.94'	STH 167	--	--	--	--	--	--	--	1
0010	331+24.24	-24.11'	STH 167	--	--	--	--	--	--	--	1
0010	331+24.82	23.89'	STH 167	--	--	--	--	--	--	--	1
0010	333+49.65	23.95'	STH 167	--	--	1	--	--	--	--	--
0010	333+49.71	-24.16'	STH 167	--	--	--	--	1	--	--	--
0010	334+71.29	23.79'	STH 167	--	--	--	--	--	--	--	1
0010	334+71.40	-24.03'	STH 167	--	--	--	--	--	--	--	1
0010	335+76.89	-56.22'	STH 167	--	--	--	--	--	--	--	1
0010	335+98.10	-24.07'	STH 167	--	--	1	--	--	--	--	--
0010	335+99.91	23.94'	STH 167	--	--	--		--	--	--	1
0010	338+25.08	-23.92'	STH 167	--	--	1	--	--	--	--	--
0010	338+70.93	-41.05'	STH 167	--	--	--	--	--	--	--	1
0010	339+39.85	-84.03'	STH 167	--	--	--	--	--	--	1	--
0010	340+23.11	-97.57'	STH 167	--	--	--	--	--	--	--	1
0010	340+49.40	23.89'	STH 167	--	--	--	--	--	--	--	1
0010	340+49.54	-23.95'	STH 167	--	--	--	--	--	--	--	1
0010	342+27.77	-91.48'	STH 167	--	--	--	--	--	--	--	1
0010	342+74.73	-23.89'	STH 167	--	--	--	--	--	--	--	1
0010	342+74.73	23.83'	STH 167	--	--	--	--	--	--	--	1
0010	344+98.80	23.95'	STH 167	--	--	--	--	--	--	--	1
0010	344+99.64	-23.72'	STH 167	--	--	--	--	1	--	--	--
0010	347+99.64	-23.92'	STH 167	--	--	--	--	1	--	--	--
0010	348+00.90	23.86'	STH 167	--	--	--	--	1	--	--	--
0010	349+99.13	24.01'	STH 167	--	--	--	--	1	--	--	--
0010	349+99.75	-23.99'	STH 167	--	--	--	--	1	--	--	--
0010	351+89.74	-71.80'	STH 167	--	--	--	--	--	--	1	--
0010	351+94.65	-24.06'	STH 167	--	--	--	--	1	--	--	--
0010	351+95.15	23.74'	STH 167	--	--	--	--	--	--	--	1
0010	352+26.47	-60.11'	STH 167	--	--	--	--	--	--	--	1
0010	352+69.67	86.85'	STH 167	--	--	--	--	--	--	--	1
0010	354+18.89	-24.04'	STH 167	--	--	1	--	--	--	--	--
0010	354+44.47	24.04'	STH 167	--	--	1	--	--	--	--	--
0010	356+88.47	34.49'	STH 167	--	--	1	--	--	--	--	--
0010	356+89.77	20.72'	STH 167	1	--	--	1	--	1	--	--
0010	359+04.33	47.33'	STH 167	--	--	1	--	--	--	--	--
0010	374+42.92	48.24'	STH 167	--	--	1	--	--	--	--	--
0010	374+42.92	70.48'	STH 167	--	--	--	--	--	--	--	1
0010	376+78.27	48.20'	STH 167	--	--	1	--	--	--	--	--
0010	376+78.31	-11.93'	STH 167	--	--	--	--	--	--	--	1
0010	376+78.38	0.23'	STH 167	--	--	--	--	--	--	--	1
0010	376+78.69	-48.04'	STH 167	--	--	1	--	--	--	--	--
0010	380+53.55	-47.82'	STH 167	--	--	--	--	--	--	--	1
0010	380+53.56	65.56'	STH 167	--	--	--	--	--	--	--	1
0010	380+53.68	48.20'	STH 167	--	--	--	--	1	--	--	--
0010	380+54.03	-11.65'	STH 167	--	--	1	--	--	--	--	--
0010	380+54.15	-5.51'	STH 167	--	--	--	--	--	--	--	1
0010	381+45.00	-5.50'	STH 167	--	--	--	--	--	--	--	1
0010	383+89.42	48.09'	STH 167	--	--	1	--	--	--	--	--
0010	383+90.61	70.53'	STH 167	--	--	--	--	--	--	--	1
0010	384+36.67	-48.09'	STH 167	--	--	--	--	--	--	--	1
0010	385+08.92	-11.77'	STH 167	--	--	--	--	1	--	--	--
0010	385+09.19	-0.21'	STH 167	--	--	--	--	--	--	--	1
0010	388+28.38	48.01'	STH 167	--	--	--	--	1	--	--	--
0010	388+28.87	-11.92'	STH 167	--	--	--	--	--	--	--	1
0010	388+29.03	11.84'	STH 167	--	--	--	--	--	--	--	1
0010	389+03.41	-47.94'	STH 167	--	--	--	--	--	--	--	1
0010	395+09.11	63.10'	STH 167	--	--	--	--	--	--	1	--
0010	395+94.11	61.79'	STH 167	--	--	--	--	--	--	1	--
0010	396+03.34	48.20'	STH 167	--	--	1	--	--	--	--	--
0010	400+03.09	48.06'	STH 167	--	--	--	--	--	--	--	1
0010	400+03.22	5.70'	STH 167	--	--	1	--	--	--	--	--
0010		UNDISTRIBUTED	STH 167	2	2	0	2	--	4	--	--
		TOTAL CAT 0010		4	3	22	4	15	7	12	59

FENCE SAFETY

CATEGORY	LOCATION	616.0700.S FENCE SAFETY LF
0010	STH 167	500
	TOTAL CAT 0010	500

REMOVING RETAINING WALL

CATEGORY	STATION	TO	STATION	OFFSET	204.9060.S.01 REMOVING RETAINING WALL (R-45-42) EACH
0110	314+20	-	316+25	LT	1
			TOTAL CAT 0110		1

3

GUARDRAIL REPAIRS

CATEGORY	ROADWAY	FROM STATION	FROM OFFSET		TO STATION	TO OFFSET	614.0010 BARRIER SYSTEM GRADING SHAPING FINISHING EACH	614.0400 ADJUSTING STEEL PLATE BEAM GUARD LF	614.0950 REPLACING GUARDRAIL POSTS AND BLOCKS EACH	614.0951 REPLACING GUARDRAIL RAIL AND HARDWARE LF
0010	STH 167	256+93	32.0' LT	-	258+89	89.7' LT	--	25	1	50
0010	STH 167	256+63	46.0' RT	-	258+50	50.4' RT	--	50	1	25
0010	STH 167	298+73	24.0' LT	-	302+65	24.0' LT	1	--	--	--
0010	STH 167	328+74	24.0' LT	-	330+39	26.0' LT	--	--	1	--
0010	STH 167			UNDISTRIBUTED			--	25	4	25
						TOTAL CAT 0010	1	100	7	100

SLOPED NOSE

CATEGORY	STATION	TO	STATION	LOCATION	620.0300 CONCRETE MEDIAN SLOPED NOSE SF
0010	249+50	-	265+00	STH 167	41
0010	373+43	-	387+50	STH 167	66
				TOTAL CAT 0010	107

WATER

LOCATION	624.0100 WATER MGAL
PROJECT-BASE AGGREGATE	10
PROJECT- EXCAVATION	10
UNDISTRIBUTED	10
TOTAL CAT 0010	30

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\030201_MQ-ROADWAY.DWG
LAYOUT NAME - 15
PLOT DATE : 2/18/2025 4:01 PM PLOT BY : MITCHELL FULLER PLOT NAME : PLOT SCALE : 1" = 1'
WISDOT/CADDS SHEET 42

3

EROSION CONTROL

CATEGORY	STAGE	LOCATION	STATION	TO	STATION	625.0100 TOPSOIL SY	^^^ 627.0200 MULCHING SY	628.1104 EROSION BALES EACH	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.2006 EROSION MAT URBAN CLASS I TYPE A SY	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	628.7005 INLET PROTECTION TYPE A EACH	628.7010 INLET PROTECTION TYPE B EACH	628.7020 INLET PROTECTION TYPE D EACH	628.7555 CULVERT PIPE CHECKS EACH	628.7570 ROCK BAGS EACH	629.0210 FERTILIZER TYPE B CWT	630.0130 SEEDING MIXTURE NO. 30 LB	^^^ 630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATER MGAL	645.0120 GEOTEXTILE TYPE HR SY
0010	1	STH 167	199+89	-	209+00	--	--	--	--	--	--	--	--	--	1	--	10	--	--	--	--	--	--	--
0010	1	STH 167	209+00	-	219+50	--	--	--	--	--	--	--	--	--	--	--	5	7	--	--	--	--	--	--
0010	1	STH 167	249+50	-	265+00	--	--	--	--	--	--	--	--	--	--	2	14	--	--	--	--	--	--	--
0010	1	STH 167	311+00	-	327+50	1,887	1,887	--	585	585	--	--	1,347	540	1	--	24	--	--	2	85	51	42	--
0010	1	STH 167	327+50	-	344+00	1,624	1,624	--	402	402	--	--	1,624	--	3	--	21	--	--	2	74	44	36	--
0010	1	STH 167	344+00	-	359+85	1,479	1,479	--	276	276	--	--	1,333	146	1	--	26	3	--	1	67	40	33	--
0010	1	STH 167	359+85	-	373+43	--	--	--	--	--	--	--	--	--	2	1	27	--	--	--	--	--	--	--
0010	1	STH 167	373+43	-	387+50	211	211	--	--	--	--	--	211	--	1	--	23	--	--	1	10	6	5	--
0010	1	STH 167	387+50	-	401+75	149	149	--	--	--	--	--	149	--	1	1	18	--	--	1	7	4	3	--
SUBTOTAL						5,350	5,350	--	1,263	1,263	--	--	4,664	686	10	4	168	10	--	7	243	145	120	--
UNDISTRIBUTED						1,338	1,338	100	316	316	4	6	1,166	172	3	1	42	3	100	2	61	37	30	50
TOTAL CAT 0010						6,688	6,688	100	1,579	1,579	4	6	5,830	858	13	5	210	13	100	9	304	182	150	50

^^^ = USE SEEDING TEMPORARY AND MULCHING ITEMS AS NEEDED TO ESTABLISH VEGETATION IN THE INTERIM BEFORE FINAL RESTORATION IS COMPLETED.

3

CONSTRUCTION STAKING

CATEGORY	ROADWAY	STATION	TO	STATION	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH	650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE LF	650.8501 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (1380-02-70) EACH	650.9000 CONSTRUCTION STAKING CURB RAMPS EACH	650.9500 CONSTRUCTION STAKING SIDEWALK (1380-02-70) EACH	650.9911.01 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (1380-02-70) EACH	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF
0010	STH 167	199+89	-	209+00	--	--	--	911	--	--	--	--	--
0010	STH 167	209+00	-	219+50	--	--	1	1,050	--	--	--	--	--
0010	STH 167	219+50	-	233+00	--	--	--	1,350	--	--	--	--	--
0010	STH 167	233+00	-	249+50	--	--	--	1,650	--	--	--	--	--
0010	STH 167	249+50	-	265+00	--	--	--	1,550	--	--	--	--	--
0010	STH 167	265+00	-	280+50	--	--	--	1,550	--	--	--	--	--
0010	STH 167	280+50	-	296+00	--	--	--	1,550	--	--	--	--	--
0010	STH 167	296+00	-	311+00	--	--	--	1,500	--	--	--	--	--
0010	STH 167	311+00	-	327+50	--	30	--	1,650	--	1	--	--	1,479
0010	STH 167	327+50	-	344+00	--	127	--	1,650	--	5	--	--	1,621
0010	STH 167	344+00	-	359+85	3	258	--	1,585	--	8	--	--	1,502
0010	STH 167	359+85	-	373+43	--	--	--	1,358	--	--	--	--	187
0010	STH 167	373+43	-	387+50	--	152	--	1,407	--	7	--	--	--
0010	STH 167	387+50	-	401+75	--	52	--	1,425	--	2	--	--	--
0010			PROJECT 1380-02-70		--	--	--	--	1	--	1	1	--
		TOTAL CAT 0010			3	619	1	20,186	1	23	1	1	4,789

3

SAWING

CATEGORY	STATION	TO	STATION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF
0010	199+89	-	214+00	12	27
0010	243+50	-	258+25	389	5
0010	258+25	-	273+00	751	38
0010	302+50	-	317+25	92	20
0010	317+25	-	332+00	88	35
0010	332+00	-	346+75	208	35
0010	346+75	-	361+50	466	126
0010	361+50	-	376+25	--	679
0010	376+25	-	391+00	270	7,351
0010	391+00	-	401+75	100	5,103
	TOTAL CAT 0010			2,376	13,419
0120	359+85	-	373+43	--	2,171
	TOTAL CAT 0120			--	2,171
	TOTAL 1380-02-70			2,376	15,590

ADJUSTING SANITARY SEWER MANHOLES

CATEGORY	STATION	LOCATION	OFFSET	EXST. RIM	PROP. RIM	SPV.0060.08 ADJUSTING CITY OF MEQUON SANITARY SEWER MANHOLE COVERS EACH
0040	325+69	LT	36.40	761.10	761.64	1
0040	328+70	LT	36.20	764.15	763.71	1
			TOTAL CAT 0040			2

3

ADJUSTING WATER VALVE BOXES

CATEGORY	STATION	LOCATION	OFFSET	SPV.0060.09 ADJUSTING MEQUON WATER UTILITY WATER BOXES EACH
0030	381+86	RT	51.2 RT	1
0030	396+70	LT	56.6 LT	1
		TOTAL CAT 0030		2

TEMPORARY WATER DIVERSION

CATEGORY	LOCATION	SPV.0060.11 TEMPORARY WATER DIVERSION LITTLE MENOMONEE CREEK EACH	REMARKS
0100	STH 167	1	C-45-31
	TOTAL 0100	1	

3

UTILITY LINE OPENING

CATEGORY	ROADWAY	SPV.0060.13 UTILITY LINE OPENING EACH
0010	UNDISTRIBUTED	5
	TOTAL CAT 0010	5

MINOR RETAINING WALL CAP REPLACEMENT

CATEGORY	LOCATION	SPV.0090.01 MINOR RETAINING WALL CAP REPLACEMENT LF	REMARKS
0010	STH 167	107	MINOR RETAINING WALL
	TOTAL CAT 0010	107	

3

TRAFFIC CONTROL

CATEGORY	STAGE	STAGE DURATION DAYS	LOCATION	643.0300 TRAFFIC CONTROL DRUMS EACH^	643.0300 TRAFFIC CONTROL DRUMS DAY	643.0420 TRAFFIC CONTROL BARRICADES TYPE III EACH^	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAY	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A EACH^	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C EACH^	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAY	643.0800 TRAFFIC CONTROL ARROW BOARDS EACH^	643.0800 TRAFFIC CONTROL ARROW BOARDS DAY	643.0900 TRAFFIC CONTROL SIGNS EACH^	643.0900 TRAFFIC CONTROL SIGNS DAY	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II EACH^^	643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE EACH^	643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE SF	643.1050 TRAFFIC CONTROL SIGNS PCMS EACH^	643.1050 TRAFFIC CONTROL SIGNS PCMS DAY	643.1070 TRAFFIC CONTROL CONES 42-INCH EACH^	643.1070 TRAFFIC CONTROL CONES 42-INCH DAY
0010	STH 181 STAGE 1	14	STH 167	88	1,232	25	350	50	700	30	420	1	14	27	378	--	--	--	--	--	--	--	--
0010	STH 181 STAGE 2	14	STH 167	58	812	25	350	50	700	29	406	1	14	31	434	--	--	--	--	--	--	17	238
0010	STH 167 CLOSURE	89	STH 167	202	17,966	74	6,603	148	13,205	--	--	--	--	63	5,607	--	6	105	--	--	--	--	--
0010	DETOUR	89	STH 167	--	--	8	712	16	1,424	--	--	--	--	296	26,344	--	--	--	--	--	--	--	--
			ROADWAY SUBTOTAL		20,010		8,015		16,030		826		28		32,763	--		105		--		238	
0010	PED DETOUR	28	STH 167	134	3,752	--	--	--	--	--	--	--	--	36	1,008	--	--	--	--	--	--	--	--
0010	PED DETOUR STAGE 1	14	STH 167 / STH 181	--	--	--	--	--	--	--	--	--	--	11	154	--	--	--	--	--	--	--	--
0010	PED DETOUR STAGE 2	14	STH 167 / STH 181	--	--	--	--	--	--	--	--	--	--	8	112	--	--	--	--	--	--	--	--
			PED DETOUR SUBTOTAL		3,752		--		--		--		--		1,274	--		--		--		--	
			UNDISTRIBUTED		5,941		2,004		4,008		207		--		8,510	10		--		128		60	
			TOTAL CAT 0010		29,703		10,019		20,038		1,033		28		42,547	10		105		128		298	

^ = FOR INFORMATION ONLY

^^ = ONE CYCLE

3

TEMPORARY PEDESTRIAN ACCOMMODATIONS

CATEGORY	STAGE	DURATION	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
0010	PED DETOUR	28	STH 167	1,811	392	140	2,174
0010	PED DETOUR STAGE 1	14	STH 167 / STH 181	305	42	30	383
0010	PED DETOUR STAGE 2	14	STH 167 / STH 181	85	98	70	310
			SUBTOTAL	2,201	532	240	2,867
			UNDISTRIBUTED	551	133	120	717
			TOTAL CAT 0010	2,752	665	360	3,584

TEMPORARY PAVEMENT MARKING

CATEGORY	STAGE	LOCATION	643.3180 TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH WHITE LF	643.3180 TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH YELLOW LF	643.3350 TEMPORARY MARKING CROSSWALK REMOVABLE TAPE 6-INCH LF
0010	STH 181 STAGE 1	STH 167	2,343	2,217	--
0010	STH 181 STAGE 2	STH 167	2,577	358	--
0010	PED DETOUR	STH 167	--	--	587
0010	PED DETOUR STAGE 1	STH 167 / STH 181	--	--	44
0010	PED DETOUR STAGE 2	STH 167 / STH 181	--	--	178
		TOTAL CAT 0010	7,495		809

3

STATE FURNISHED MATERIALS
STH 167 (MEQUON RD) & WASAUKEE RD

ITEM	QUANTITY EACH
Traffic Signal Cabinet	1
Traffic Signal Controller	1
EVP Detector Heads	4
Luminaire Arms Steel 15-FT	2
Poles Type 9 Special	2
Poles Type 10 Special	2
Monotube Arms 40-FT Special	1
Monotube Arms 45-FT Special	3
Cohu Camera	1

REMOVING LOOP DETECTOR WIRE & LEAD-IN CABLE

204.9060.S.05

LOCATION	REMOVING LOOP DETECTOR WIRE & LEAD-IN CABLE (STH 167 & WASAUKEE RD.) EACH
STH 167 & WASAUKEE RD.	1
TOTAL CAT 0010	1

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

REMOVING TRAFFIC SIGNALS

204.9060.S.03

LOCATION	REMOVING TRAFFIC SIGNALS (STH 167 & WASAUKEE RD.) EACH
STH 167 & WASAUKEE RD.	1
TOTAL CAT 0010	1

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REMOVALS

SIGNAL BASE NO.	STATION	OFFSET	* 204.0195 REMOVING CONCRETE BASES EACH	* 653.0905 REMOVING PULL BOXES EACH
SB1	205+72	64.5' LT	1	--
SB2	205+76	5.8' LT	1	--
SB3	205+73	29.1' RT	1	--
SB4	205+22	73.8' RT	1	--
SB5	204+48	92.2' RT	1	--
SB6	204+10	37.0' RT	1	--
SB7	204+04	24.2' LT	1	--
SB8	204+04	58.3' LT	1	--
SB9	204+45	88.4' LT	1	--
SB10	205+29	93.7' LT	1	--
PB1	205+92	66.0' LT	--	1
PB2	207+73	71.0' LT	--	1
PB3	209+03	57.9' LT	--	1
PB4	205+92	5.0' LT	--	1
PB5	205+93	27.8' RT	--	1
PB6	205+27	62.3' RT	--	1
PB7	205+20	327.6' RT	--	1
PB8	204+40	61.2' RT	--	1
PB9	203+90	34.5' RT	--	1
PB10	202+16	33.6' RT	--	1
PB11	200+95	27.4' RT	--	1
PB12	203+93	24.7' LT	--	1
PB13	203+93	57.2' LT	--	1
PB14	204+50	105.0' LT	--	1
PB15	204+52	334.8' LT	--	1
PB16	205+22	106.7' LT	--	1
CB1	203+91	106.0' LT	1	--
	TOTAL CAT 0010		11	16

ALL ITEMS CATEGORY 0010

STH 167 (MEQUON RD.) & WASAUKEE RD.
CITY OF MEQUON/VILLAGE OF GERMANTOWN
WASHINGTON/OZAUKEE COUNTY

PAGE 01 OF 05

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LOOP DETECTORS

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

LOOP NUMBER	LOOP SIZE	NO. OF TURNS	HOME RUN PULL BOX	STATION	OFFSET	PAVEMENT TYPE	SDD INSTALLATION REFERENCE	* 652.0800 CONDUIT LOOP DETECTOR LF	* 655.0700 LOOP DETECTOR LEAD IN CABLE LF	* 655.0800 LOOP DETECTOR WIRE LF
11	6' x 20'	3	PB20	203+84	14.5' LT	ASPHALT	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	67	89	177
12	6' x 20'	3	PB20	204+12	14.4' LT	ASPHALT	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	76	93	186
21	6' x 6'	6	PB9	209+43	37.6' LT	ASPHALT	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	49	570	195
22	6' x 8'	5	PB8	207+91	36.1' LT	ASPHALT	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	75	433	193
31	6' x 20'	3	PB13	204+85	96.4' RT	ASPHALT	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	129	362	239
32	6' x 20'	3	PB12	204+85	68.4' RT	ASPHALT	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	139	330	249
41	6' x 8'	5	PB5	204+78	417.9' LT	ASPHALT	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	59	389	177
42	6' x 8'	4	PB4	204+74	287.9' LT	ASPHALT	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	86	269	176
43	6' x 20'	3	PB3	204+61	119.2' LT	ASPHALT	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	74	78	184
44	6' x 32'	3	PB3	204+61	79.2' LT	ASPHALT	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	99	79	257
45	6' x 20'	3	PB3	204+73	119.2' LT	ASPHALT	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	97	90	207
46	6' x 32'	3	PB3	204+73	79.2' LT	ASPHALT	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	118	88	276
51	6' x 20'	3	PB10	205+96	16.2' LT	ASPHALT	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	70	287	180
52	6' x 20'	3	PB10	205+68	16.2' LT	ASPHALT	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	71	288	181
61	6' x 8'	5	PB19	200+41	6.0' RT	ASPHALT	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	76	505	194
62	6' x 8'	4	PB18	201+90	6.8' RT	ASPHALT	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	78	361	168
71	6' x 20'	3	PB3	204+85	119.2' LT	ASPHALT	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	121	102	231
72	6' x 32'	3	PB3	204+85	79.2' LT	ASPHALT	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	141	100	299
81	6' x 8'	6	PB15	204+97	404.2' RT	ASPHALT	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	63	647	209
82	6' x 8'	5	PB14	204+96	274.2' RT	ASPHALT	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	76	517	194
83	6' x 20'	3	PB13	205+08	96.5' RT	ASPHALT	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	83	339	193
84	6' x 20'	3	PB12	205+08	68.4' RT	ASPHALT	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	83	302	193
85	6' x 20'	3	PB13	204+96	96.4' RT	ASPHALT	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	103	349	213
86	6' x 20'	3	PB12	204+96	68.4' RT	ASPHALT	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	106	313	216
				TOTAL CAT 0010				2,139	6,973	4,987

3

LAMP, BALLAST, LED, SWITCH DISPOSALS

CATEGORY	FIXTURE	* 659.5000.S LAMP, BALLAST, LED, SWITCH DISPOSAL BY CONTRACTOR EACH
0010	TRAFFIC SIGNAL, THREE SECTION	10
0010	TRAFFIC SIGNAL, FIVE SECTION	4
0010	HIGH PRESSURE SODIUM LAMP	6
0010	BALLASTS	6
0010	MERCURY SWITCHES	1
	TOTAL CAT 0010	27

LAMP, BALLAST, LED, SWITCH DISPOSALS
(FOR INFORMATION ONLY)

SIGNAL BASE NO.	TRAFFIC SIGNAL, THREE SECTION EACH	TRAFFIC SIGNAL, FIVE SECTION EACH	HIGH PRESSURE SODIUM LAMP EACH	BALLASTS EACH	MERCURY SWITCHES EACH
SB1	1	--	--	--	--
SB2	--	2	2	2	--
SB3	1	--	--	--	--
SB4	2	--	--	--	--
SB5	1	--	1	1	--
SB6	1	--	--	--	--
SB7	--	2	2	2	--
SB8	1	--	--	--	--
SB9	2	--	--	--	--
SB10	1	--	1	1	--
CB1	--	--	--	--	1
TOTAL CAT 0010	10	4	6	6	1

ALL ITEMS CATEGORY 0010

STH 167 (MEQUON RD.) & WASAUKEE RD.
CITY OF MEQUON/VILLAGE OF GERMANTOWN
WASHINGTON/OZAUKEE COUNTY

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	MISCELLANEOUS QUANTITIES	SHEET 205	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\030201_MQ-SIGNALS.DWG
LAYOUT NAME - 02
PLOT DATE : 2/19/2025 10:54 AM PLOT BY : NEAL R. STYKA, P.E., PTOE, RSP1 PLOT NAME : PLOT SCALE : 1" = 1'
WISDOT/CADDS SHEET 42

3

CONDUIT

FROM	TO	* 652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	* 652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF	* 652.0605 CONDUIT SPECIAL 2-INCH LF	* 652.0615 CONDUIT SPECIAL 3-INCH LF
CB1	PB1	--	39	--	--
PB1	PB2	--	150	--	--
PB2	SB1	23	--	--	--
PB2	PB3	12	--	--	--
PB3	PB4	167	--	--	--
PB4	PB5	131	--	--	--
PB2	PB6	--	--	--	138
PB6	SB2	--	15	--	--
PB6	PB7	--	170	--	--
PB7	SB3	--	22	--	--
PB7	PB8	198	--	--	--
PB8	PB9	148	--	--	--
PB7	PB10	--	--	--	122
PB10	SB4	6	--	--	--
PB10	PB11	--	--	--	66
PB11	SB5	--	19	--	--
PB11	PB12	--	152	--	--
PB12	SB6	21	--	--	--
PB12	PB13	36	--	--	--
PB13	PB14	--	--	176	--
PB14	PB15	--	--	135	--
PB12	PB16	--	--	--	176
PB16	SB7	--	--	--	32
PB16	PB17	--	--	--	119
PB17	SB8	28	--	--	--
PB17	PB18	--	--	188	--
PB18	PB19	--	--	145	--
PB17	PB20	--	--	--	122
PB20	SB9	5	--	--	--
PB20	PB21	--	--	--	62
PB21	SB10	--	7	--	--
PB21	PB22	--	129	--	--
PB22	CB1	--	24	--	--
TOTAL CAT 0010		775	727	644	837

PULL BOXES

PULL BOX	STATION	OFFSET	* 653.0135 PULL BOXES STEEL 24X36-INCH EACH	* 653.0140 PULL BOXES STEEL 24X42-INCH EACH
PB1	204+01	104.3' LT	--	1
PB2	204+51	112.8' LT	--	1
PB3	204+51	117.3' LT	1	--
PB4	204+47	284.6' LT	1	--
PB5	204+63	414.1' LT	1	--
PB6	205+22	106.8' LT	--	1
PB7	205+93	65.6' LT	--	1
PB8	207+91	59.6' LT	1	--
PB9	209+38	51.3' LT	1	--
PB10	205+92	4.8' LT	--	1
PB11	205+93	28' RT	--	1
PB12	205+27	62.4' RT	--	1
PB13	205+23	93.1' RT	--	1
PB14	205+20	269.2' RT	--	1
PB15	205+18	404.3' RT	1	--
PB16	204+40	61.5' RT	--	1
PB17	203+83	35.8' RT	--	1
PB18	201+95	31.3' RT	--	1
PB19	200+50	27.7' RT	--	1
PB20	203+83	24.9' LT	--	1
PB21	203+83	56.1' LT	--	1
PB22	203+89	98.4' LT	--	1
TOTAL CAT 0010			6	16

ABOVE GROUND SIGNAL CABLE

FROM	TO HEAD NO.	* 655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG LF	* 655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG LF
SB1	16	--	26
SB1	18	25	--
SB2	14	70	--
SB2	15	25	--
SB2	17	--	72
SB3	5	--	26
SB3	7	25	--
SB4	10	--	26
SB5	2	70	--
SB5	3	25	--
SB5	6	--	71
SB6	13	25	--
SB6	21	--	26
SB7	19	65	--
SB7	20	25	--
SB7	22	--	66
SB8	1	25	--
SB8	11	--	26
SB9	4	--	26
SB10	12	70	--
SB10	8	70	--
SB10	9	--	26
TOTAL CAT 0010		520	391

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

UNDERGROUND CABLE

FROM	TO	* 655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG LF
CB1	SB1	139
CB1	SB2	213
CB1	SB3	319
CB1	SB4	379
CB1	SB5	440
CB1	SB6	421
CB1	SB7	328
CB1	SB8	247
CB1	SB9	151
CB1	SB10	107
TOTAL CAT 0010		2,744

CONCRETE BASES

BASE NO	STATION	OFFSET	* 654.0101 CONCRETE BASES TYPE 1 EACH	* 654.0102 CONCRETE BASES TYPE 2 EACH	* 654.0120 CONCRETE BASES TYPE 10-SPECIAL EACH	* 654.0217 CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL EACH
SB1	204+45	88.1' LT	1	--	--	--
SB2	205+28	93.5' LT	--	--	1	--
SB3	205+72	64.5' LT	1	--	--	--
SB4	205+86	5.6' LT	--	1	--	--
SB5	205+73	28.3' RT	--	--	1	--
SB6	205+22	74.5' RT	1	--	--	--
SB7	204+48	92.2' RT	--	--	1	--
SB8	204+10	37.1' RT	1	--	--	--
SB9	203+77	25.0' LT	--	1	--	--
SB10	203+90	57.0' LT	--	--	1	--
CB1	203+89	106.1' LT	--	--	--	1
TOTAL CAT 0010			4	2	4	1

ALL ITEMS CATEGORY 0010

STH 167 (MEQUON RD.) & WASAUKEE RD.
CITY OF MEQUON/VILLAGE OF GERMANTOWN
WASHINGTON/OZAUKEE COUNTY

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	MISCELLANEOUS QUANTITIES	SHEET 206	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\030201_MQ-SIGNALS.DWG
LAYOUT NAME - 03
PLOT DATE : 2/19/2025 10:54 AM PLOT BY : NEAL R. STYKA, P.E., PTOE, RSP3 PLOT NAME : PLOT SCALE : 1" = 1'
WISDOT/CADDS SHEET 42

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

3

LIGHTING WIRE

FROM	TO	* 655.0320 CABLE TYPE UF 2-10 AWG GROUNDED LF	* 655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF
CB1	SB2	217	--
SB2	LUMIN (1)	--	144
SB2	SB4	231	--
SB4	LUMIN (2)	--	288
SB9	SB7	231	--
SB7	LUMIN (1)	--	144
CB1	SB9	154	--
SB9	LUMIN (2)	--	288
TOTAL CAT 0010		833	864

METER BREAKER PEDESTAL

LOCATION	656.0201.02 ELECTRICAL SERVICE METER BREAKER PEDESTAL (STH 167 & WASAUKEE RD.) EACH
STH 167 & WASAUKEE RD.	1
TOTAL 0010	1

ELECTRICAL WIRE

FROM	TO	* 655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG LF
CB1	SB1	139
SB1	SB2	149
SB2	SB3	160
SB3	SB4	127
SB4	SB5	96
SB5	SB6	148
SB6	SB7	172
SB7	SB8	162
SB8	SB9	132
SB9	SB10	81
SB10	CB1	105
PB1	CB1	43
PB2	SB1	94
PB6	SB2	33
PB7	SB3	39
PB10	SB4	23
PB11	SB5	37
PB12	SB6	31
PB16	SB7	49
PB17	SB8	45
PB20	SB9	22
PB21	SB10	25
PB22	CB1	36
TOTAL CAT 0010		1,471

EVP DETECTOR CABLE

STATION	LOCATION	* 655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE LF
CB1	SB10 (HEAD A)	117
CB1	SB5 (HEAD B)	390
CB1	SB7 (HEAD C)	289
CB1	SB2 (HEAD D)	208
	TOTAL 0010	1,004

LIGHTING

SIGNAL BASE NO.	* 657.0610 LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 6-FT EACH	* SPV.0060.17 TRANSPORT AND INSTALL LUMINAIRE ARMS STEEL 15-FT EACH	* 659.1125 LUMINAIRES UTILITY LED C EACH
SB2	--	1	1
SB4	2	--	2
SB7	--	1	1
SB9	2	--	2
TOTAL CAT 0010	4	2	6

MONOTUBES & POLES

SIGNAL BASE NO.	* 657.0100 PEDESTAL BASES EACH	* 657.0255 TRANSFORMER BASES BREAKWAY 11 1/2-INCH BOLT CIRCLE EACH	* 657.0310 POLES TYPE 3 EACH	* SPV.0060.18 TRANSPORT & INSTALL STATE FURNISHED POLES TYPE 9-SPECIAL EACH	* SPV.0060.20 TRANSPORT & INSTALL STATE FURNISHED POLES TYPE 10-SPECIAL EACH	* 657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT EACH	SPV.0060.22 TRANSPORT & INSTALL STATE FURNISHED MONOTUBE ARMS 40-FT SPECIAL EACH	* SPV.0060.23 TRANSPORT & INSTALL STATE FURNISHED MONOTUBE ARMS 45-FT SPECIAL EACH
SB1	1	--	--	--	--	1	--	--
SB2	--	--	--	--	1	--	--	1
SB3	1	--	--	--	--	1	--	--
SB4	--	1	1	--	--	1	--	--
SB5	--	--	--	1	--	--	--	1
SB6	1	--	--	--	--	1	--	--
SB7	--	--	--	--	1	--	1	--
SB8	1	--	--	--	--	1	--	--
SB9	--	1	1	--	--	1	--	--
SB10	--	--	--	1	--	--	--	1
TOTAL CAT 0010	4	2	2	2	2	6	1	3

ALL ITEMS CATEGORY 0010

STH 167 (MEQUON RD.) & WASAUKEE RD.
CITY OF MEQUON/VILLAGE OF GERMANTOWN
WASHINGTON/OZAUKEE COUNTY

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\030201_MQ-SIGNALS.DWG
LAYOUT NAME - 04
PLOT DATE : 2/19/2025 10:54 AM PLOT BY : NEAL R. STYKA, P.E., PTOE, RSP3 PLOT NAME : PLOT SCALE : 1" = 1'
WISDOT/CADDS SHEET 42

3

TRAFFIC SIGNAL CONTROLLER & CABINET

LOCATION	SPV.0060.02 TRANSPORT & INSTALL STATE-FURNISHED TRAFFIC SIGNAL CABINET (STH 167 & WASAUKEE RD.) EACH
STH 167 & WASAUKEE RD.	1
TOTAL CAT 0010	1

SIGNAL MOUNTING HARDWARE

LOCATION	658.5070.02 SIGNAL MOUNTING HARDWARE (STH 167 & WASAUKEE RD.) EACH
STH 167 & WASAUKEE RD.	1
TOTAL CAT 0010	1

EVP DETECTOR HEADS

LOCATION	SPV.0060.16 TRANSPORT AND INSTALL STATE FURNISHED EVP DETECTOR HEADS (STH 167 & WASAUKEE RD.) EACH
STH 167 & WASAUKEE RD.	1
TOTAL CAT 0010	1

SIGNAL FACES

SIGNAL HEAD NO.	SIGNAL BASE NO.	* 658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH EACH	* 658.0174 TRAFFIC SIGNAL FACE 4S 12-INCH EACH
16	SB1	--	1
18	SB1	1	--
14	SB2	1	--
15	SB2	1	--
17	SB2	--	1
5	SB3	--	1
7	SB3	1	--
10	SB4	--	1
2	SB5	1	--
3	SB5	1	--
6	SB5	--	1
13	SB6	1	--
21	SB6	--	1
19	SB7	1	--
20	SB7	1	--
22	SB7	--	1
1	SB8	1	--
11	SB8	--	1
4	SB9	--	1
12	SB9	--	1
8	SB10	1	--
9	SB10	1	--
TOTAL CAT 0010		12	10

TEMPORARY SIGNALS

LOCATION	661.0201.02 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS (STH 167 & WASAUKEE RD.) EACH	* 661.0300 GENERATORS DAY	* 677.0200 INSTALL CAMERA ASSEMBLY EACH
STH 167 & WASAUKEE RD.	1	1	1
TOTAL CAT 0010	1	1	1

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

REMOVE AND REINSTALL RADIO ANTENNA

LOCATION	SPV.0060.04 REMOVE & REINSTALL WIRELESS COMMUNICATION EQUIPMENT (STH 167 & WASAUKEE RD) EACH
STH 167 & WASAUKEE RD.	1
TOTAL CAT 0010	1

3

ALL ITEMS CATEGORY 0010

STH 167 (MEQUON RD.) & WASAUKEE RD.
CITY OF MEQUON/VILLAGE OF GERMANTOWN
WASHINGTON/OZAUKEE COUNTY

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	MISCELLANEOUS QUANTITIES	SHEET 208	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\030201_MQ-SIGNALS.DWG
LAYOUT NAME - 05
PLOT DATE : 2/19/2025 10:54 AM PLOT BY : NEAL R. STYKA, P.E., PTOE, RSP1 PLOT NAME : PLOT SCALE : 1" = 1'
WISDOT/CADDS SHEET 42

3

STATE FURNISHED MATERIALS
STH 167 (MEQUON RD) & GRANVILLE RD

ITEM	QUANTITY EACH
Traffic Signal Cabinet	1
Traffic Signal Controller	1
EVP Detector Heads	4
Luminaire Arms 15-FT	4
Poles Type 9 Special	2
Poles Type 10	2
Monotube Arms 30-FT	2
Monotube Arms 45-FT Special	2
Cohu Camera	1

REMOVALS

SIGNAL BASE NO.	STATION	OFFSET	* 204.0195 REMOVING CONCRETE BASES EACH	* 653.0905 REMOVING PULL BOXES EACH
SB1	259+68	47.6' LT	1	--
SB2	259+77	12.3' RT	1	--
SB3	259+33	51.0' RT	1	--
SB4	259+27	48.8' RT	1	--
SB5	258+71	79.6' RT	1	--
SB6	258+43	53.6' RT	1	--
SB7	258+24	6.3' LT	1	--
SB8	258+30	36.6' LT	1	--
SB9	258+76	58.3' LT	1	--
SB10	259+42	82.0' LT	1	--
SB11	260+07	12.7' RT	1	--
SB12	257+96	6.6' LT	1	--
PB1	259+81	46.2' LT	--	1
PB2	261+69	42.1' LT	--	1
PB3	262+98	46.5' LT	--	1
PB4	259+85	13.4' RT	--	1
PB5	259+79	68.8' RT	--	1
PB6	259+62	82.9' RT	--	1
PB7	259+25	64.2' RT	--	1
PB8	259+38	301.3' RT	--	1
PB9	258+73	90.0' RT	--	1
PB10	258+29	51.3' RT	--	1
PB11	256+44	46.7' RT	--	1
PB12	255+14	44.1' RT	--	1
PB13	258+13	6.6' LT	--	1
PB14	258+24	35.9' LT	--	1
PB15	258+75	66.5' LT	--	1
PB16	258+93	307.6' LT	--	1
PB17	259+50	67.3' LT	--	1
CB1	259+69	67.3' LT	1	--
TOTAL CAT 0010			13	17

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

LAMP, BALLAST, LED, SWITCH DISPOSALS

CATEGORY	FIXTURE	* 659.5000.S LAMP, BALLAST, LED, SWITCH DISPOSAL BY CONTRACTOR EACH
0010	TRAFFIC SIGNAL, THREE SECTION	12
0010	TRAFFIC SIGNAL, FIVE SECTION	2
0010	HIGH PRESSURE SODIUM LAMP	6
0010	BALLASTS	6
0010	MERCURY SWITCHES	1
	TOTAL CAT 0010	27

LAMP, BALLAST, LED, SWITCH DISPOSALS

(FOR INFORMATION ONLY)

SIGNAL BASE NO.	TRAFFIC SIGNAL, THREE SECTION EACH	TRAFFIC SIGNAL, FIVE SECTION EACH	HIGH PRESSURE SODIUM LAMP EACH	BALLASTS EACH	MERCURY SWITCHES EACH
SB1	1	--	--	--	--
SB2	1	1	--	--	--
SB3	1	--	--	--	--
SB4	2	--	--	--	--
SB5	1	--	1	1	--
SB6	1	--	--	--	--
SB7	1	1	--	--	--
SB8	1	--	--	--	--
SB9	2	--	--	--	--
SB10	1	--	1	1	--
SB11	--	--	2	2	--
SB12	--	--	2	2	--
CB1	--	--	--	--	1
TOTAL CAT 0010	12	2	6	6	1

ALL ITEMS CATEGORY 0010

STH 167 (MEQUON RD.) & GRANVILLE RD.
CITY OF MEQUON
OZAUKEE COUNTY

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\030201_MQ-SIGNALS.DWG
LAYOUT NAME - 06
PLOT DATE : 2/19/2025 10:54 AM PLOT BY : NEAL R. STYKA, P.E., PTOE, RSP1 PLOT NAME : PLOT SCALE : 1" = 1'
WISDOT/CADDS SHEET 42

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

3

LOOP DETECTORS

LOOP	LOOP SIZE	NO. OF TURNS	HOME RUN PULL BOX	STATION	OFFSET	PAVEMENT TYPE	SDD INSTALLATION REFERENCE	* 652.0800 CONDUIT LOOP DETECTOR LF	* 655.0700 LOOP DETECTOR LEAD IN CABLE LF	* 655.0800 LOOP DETECTOR WIRE LF
11	6' x 20'	3	PB14	258+01	2.3' RT	ASPHALT	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	84	222	194
12	6' x 20'	3	PB14	258+29	0.2' RT	ASPHALT	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	69	220	179
21	6' x 8'	5	PB3	263+38	15.2' LT	ASPHALT	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	76	399	194
22	6' x 8'	4	PB2	261+88	17.2' LT	ASPHALT	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	78	251	168
41	6' x 8'	5	PB18	259+15	428.0' LT	ASPHALT	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	68	400	186
42	6' x 8'	4	PB17	259+11	278.1' LT	ASPHALT	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	71	252	161
43	6' x 20'	3	PB16	259+01	72.1' LT	ASPHALT	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	89	106	199
44	6' x 20'	3	PB16	258+85	37.9' LT	ASPHALT	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	80	101	190
45	6' x 20'	3	PB16	259+00	36.9' LT	ASPHALT	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	97	110	207
51	6' x 20'	3	PB4	260+00	2.9' RT	ASPHALT	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	94	105	204
52	6' x 20'	3	PB4	259+71	6.1' RT	ASPHALT	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	76	96	186
61	6' x 8'	6	PB13	254+74	22.2' RT	ASPHALT	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	640	218
62	6' x 8'	5	PB12	256+24	23.8' RT	ASPHALT	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	66	458	184
81	6' x 8'	5	PB8	259+14	418.7' RT	ASPHALT	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	66	508	184
82	6' x 8'	4	PB7	259+13	268.5' RT	ASPHALT	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	52	365	142
83	6' x 20'	3	PB9	259+13	77.4' RT	ASPHALT	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	92	232	202
84	6' x 20'	3	PB9	259+13	49.4' RT	ASPHALT	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	71	222	181
				TOTAL CAT 0010				1,301	4,687	3,179

REMOVING TRAFFIC SIGNALS

204.9060.S.02

LOCATION	REMOVING TRAFFIC SIGNALS (STH 167 & GRANVILLE RD.) EACH
STH 167 & GRANVILLE RD.	1
TOTAL CAT 0010	1

REMOVING LOOP DETECTOR WIRE & LEAD-IN CABLE

204.9060.S.04

Location	REMOVING LOOP DETECTOR WIRE & LEAD-IN CABLE (STH 167 & GRANVILLE RD.) EACH
STH 167 & GRANVILLE RD.	1
TOTAL CAT 0010	1

STH 167 (MEQUON RD.) & GRANVILLE RD.
CITY OF MEQUON
OZAUKEE COUNTY

ALL ITEMS CATEGORY 0010

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	MISCELLANEOUS QUANTITIES	SHEET 210	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\030201_MQ-SIGNALS.DWG
LAYOUT NAME - 07
PLOT DATE : 2/19/2025 10:54 AM PLOT BY : NEAL R. STYKA, P.E., PTOE, RSP1 PLOT NAME : PLOT SCALE : 1" = 1'
WISDOT/CADDS SHEET 42

3

CONDUIT

FROM	TO	* 652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	* 652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF	* 652.0605 CONDUIT SPECIAL 2-INCH LF	* 652.0615 CONDUIT SPECIAL 3-INCH LF
CB1	PB1	--	75	--	--
PB1	PB2	201	--	--	--
PB2	PB3	148	--	--	--
PB1	SB1	15	--	--	--
PB1	PB4	--	--	--	118
PB4	SB2	4	--	--	--
PB4	PB5	--	--	--	120
PB5	PB6	--	60	--	--
PB6	PB7	--	--	182	--
PB7	PB8	--	--	137	--
PB6	PB9	--	36	--	--
PB9	SB3	--	13	--	--
PB9	SB4	12	--	--	--
PB6	PB10	--	--	--	156
PB10	SB5	--	10	--	--
PB10	PB11	--	118	--	--
PB11	SB6	14	--	--	--
PB11	PB12	--	--	209	--
PB12	PB13	167	--	--	--
PB11	PB14	--	--	--	120
PB14	SB7	6	--	--	--
PB14	PB15	--	--	--	68
PB15	SB8	--	14	--	--
PB15	PB16	--	158	--	--
PB16	SB9	14	--	--	--
PB16	PB19	--	--	--	138
PB19	SB10	--	17	--	--
PB19	PB17	--	--	208	--
PB17	PB18	150	--	--	--
PB19	CB1	--	55	--	--
TOTAL CAT 0010		731	556	736	720

ABOVE GROUND SIGNAL CABLES

FROM	TO HEAD NO.	* 655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG LF	* 655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG LF
SB1	5	--	26
SB1	7	25	--
SB2	10	--	26
SB3	2	45	--
SB3	6	--	70
SB3	17	25	--
SB4	3	25	--
SB4	13	25	--
SB5	18	49	--
SB6	1	25	--
SB6	11	--	26
SB7	4	--	26
SB8	8	43	--
SB8	9	25	--
SB8	12	--	67
SB9	14	25	--
SB9	16	25	--
SB10	15	48	--
TOTAL CAT 0010		385	241

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

UNDERGROUND CABLE

FROM	TO	* 655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG LF	655.0270 CABLE TRAFFIC SIGNAL 15-14 AWG LF
CB1	SB1	74	--
CB1	SB2	137	--
CB1	SB3	--	317
CB1	SB4	316	--
CB1	SB5	357	--
CB1	SB6	368	--
CB1	SB7	284	--
CB1	SB8	248	--
CB1	SB9	150	--
CB1	SB10	69	--
TOTAL CAT 0010		2,003	317

PULL BOXES

PULL BOX	STATION	OFFSET	* 653.0135 PULL BOXES STEEL 24X36-INCH EACH	* 653.0140 PULL BOXES STEEL 24X42-INCH EACH
PB1	259+82	46.2' LT	--	1
PB2	261+83	41.8' LT	1	--
PB3	263+31	38.3' LT	1	--
PB4	259+82	12.9' LT	--	1
PB5	259+74	72.7' LT	--	1
PB6	259+51	87.0' LT	--	1
PB7	259+25	267.0' LT	--	1
PB8	259+24	403.8' LT	--	1
PB9	259+28	59.8' LT	--	1
PB10	258+73	90.1' LT	--	1
PB11	258+29	51.7' RT	--	1
PB12	256+20	45.4' RT	--	1
PB13	254+53	42.9' RT	--	1
PB14	258+13	6.5' RT	--	1
PB15	258+13	40.3' RT	--	1
PB16	258+81	71.1' RT	--	1
PB17	259+35	277.8' RT	1	--
PB18	259+38	427.8' RT	1	--
PB19	259+49	67.8' RT	--	1
TOTAL CAT 0010			4	15

CONCRETE BASES

BASE NO	STATION	OFFSET	* 654.0101 CONCRETE BASES TYPE 1 EACH	* 654.0102 CONCRETE BASES TYPE 2 EACH	654.0110 CONCRETE BASES TYPE 10 EACH	* 654.0120 CONCRETE BASES TYPE 10-SPECIAL EACH	* 654.0217 CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL EACH
SB1	259+69	49.0' LT	1	--	--	--	--
SB2	259+77	12.5' RT	--	1	--	--	--
SB3	259+31	47.4' RT	--	--	--	1	--
SB4	259+27	47.6' RT	1	--	--	--	--
SB5	258+72	79.9' RT	--	--	1	--	--
SB6	258+43	53.7' RT	1	--	--	--	--
SB7	258+19	6.3' LT	--	1	--	--	--
SB8	258+25	38.0' LT	--	--	--	1	--
SB9	258+74	59.3' LT	1	--	--	--	--
SB10	259+42	81.8' LT	--	--	1	--	--
CB1	259+68	66.6' LT	--	--	--	--	1
TOTAL CAT 0010			4	2	2	2	1

ALL ITEMS CATEGORY 0010

STH 167 (MEQUON RD.) & GRANVILLE RD.
CITY OF MEQUON
OZAUKEE COUNTY

PAGE 03 OF 05

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	MISCELLANEOUS QUANTITIES	SHEET 211	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\030201_MQ-SIGNALS.DWG
LAYOUT NAME - 08

PLOT DATE : 2/19/2025 1:37 PM PLOT BY : MITCHELL FULLER PLOT NAME : PLOT SCALE : 1" = 1'

WISDOT/CADDS SHEET 42

3

LIGHTING WIRE

FROM	TO	* 655.0320 CABLE TYPE UF 2-10 AWG GROUNDED LF	* 655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF
CB1	SB2	141	--
SB2	LUMIN (2)	--	288
SB2	SB5	262	--
SB5	LUMIN (1)	--	144
SB10	SB7	273	--
SB7	LUMIN (2)	--	288
SB10	CB1	149	--
SB10	LUMIN (1)	--	144
TOTAL CAT 0010		825	864

METER BREAKER PEDESTALS

LOCATION	656.0201.01 ELECTRICAL SERVICE METER BREAKER PEDESTAL (STH 167 & GRANVILLE RD.) EACH
STH 167 & GRANVILLE RD.	1
TOTAL 0010	1

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ELECTRICAL WIRE

FROM	TO	* 655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG LF
CB1	SB1	74
SB1	SB2	116
SB2	SB3	211
SB3	SB4	48
SB4	SB5	190
SB5	SB6	123
SB6	SB7	119
SB7	SB8	97
SB8	SB9	150
SB9	SB10	137
SB10	CB1	69
PB1	CB1	52
PB4	SB2	22
PB5	SB2	99
PB6	SB4	82
PB9	SB4	31
PB10	SB5	27
PB11	SB6	32
PB14	SB7	23
PB15	SB8	31
PB16	SB9	32
PB19	CB1	44
TOTAL CAT 0010		1,334

LIGHTING

SIGNAL BASE NO.	* 657.0610 LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 6-FT EACH	* SPV.0060.17 TRANSPORT & INSTALL STATE FURNISHED LUMINAIRE ARMS STEEL 15-FT EACH	* 659.1125 LUMINAIRES UTILITY LED C EACH
SB2	2	--	2
SB5	--	1	1
SB7	2	--	2
SB10	--	1	1
TOTAL CAT 0010	4	2	6

EVP DETECTOR CABLE

FTOM	TO	* 655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE LF
CB1	SB8 (HEAD A)	240
CB1	SB3 (HEAD B)	287
CB1	SB5 (HEAD C)	312
CB1	SB10 (HEAD D)	85
	TOTAL 0010	924

MONOTUBES & POLES

SIGNAL BASE NO	* 657.0100 PEDESTAL BASES EACH	* 657.0255 TRANSFORMER BASES BREAKWAY 11 1/2-INCH BOLT CIRCLE EACH	* 657.0310 POLES TYPE 3 EACH	* SPV.0060.18 TRANSPORT & INSTALL STATE FURNISHED POLES TYPE 9-SPECIAL EACH	* SPV.0060.19 TRANSPORT & INSTALL STATE FURNISHED POLES TYPE 10 EACH	657.0420 TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT EACH	* 657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT EACH	SPV.0060.21 TRANSPORT & INSTALL STATE FURNISHED MONOTUBE ARMS 30-FT EACH	* SPV.0060.23 TRANSPORT & INSTALL STATE FURNISHED MONOTUBE ARMS 45-FT SPECIAL EACH
SB1	1	--	--	--	--	--	1	--	--
SB2	--	1	1	--	--	--	--	--	--
SB3	--	--	--	1	--	--	--	--	1
SB4	1	--	--	--	--	1	--	--	--
SB5	--	--	--	--	1	--	--	1	--
SB6	1	--	--	--	--	--	1	--	--
SB7	--	1	1	--	--	--	--	--	--
SB8	--	--	--	1	--	--	--	--	1
SB9	1	--	--	--	--	1	--	--	--
SB10	--	--	--	--	1	--	--	1	--
TOTAL CAT 0010	4	2	2	2	2	2	2	2	2

ALL ITEMS CATEGORY 0010

STH 167 (MEQUON RD.) & GRANVILLE RD.
CITY OF MEQUON
OZAUKEE COUNTY

PAGE 04 OF 05

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	MISCELLANEOUS QUANTITIES	SHEET 212	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\030201_MQ-SIGNALS.DWG
LAYOUT NAME - 09

PLOT DATE : 2/19/2025 1:37 PM PLOT BY : MITCHELL FULLER PLOT NAME : PLOT SCALE : 1" = 1'

WISDOT/CADDS SHEET 42

3

TRAFFIC SIGNAL CONTROLLER & CABINET

LOCATION	SPV.0060.01 TRANSPORT & INSTALL STATE-FURNISHED TRAFFIC SIGNAL CABINET (STH 167 & GRANVILLE RD.) EACH
STH 167 & GRANVILLE RD.	1
TOTAL CAT 0010	1

SIGNAL MOUNTING HARDWARE

CATEGORY	LOCATION	658.5070.01 SIGNAL MOUNTING HARDWARE (STH 167 & GRANVILLE RD.) EACH
0010	STH 167 & GRANVILLE RD.	1
	TOTAL CAT 0010	1

TEMPORARY SIGNALS

LOCATION	661.0201.01 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS (STH 167 & GRANVILLE RD.) EACH	* 661.0300 GENERATORS DAY	* 677.0200 INSTALL CAMERA ASSEMBLY EACH
STH 167 & GRANVILLE RD.	1	1	1
TOTAL CAT 0010	1	1	1

SIGNAL FACES

SIGNAL HEAD NO	SIGNAL BASE NO	* 658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH EACH	* 658.0174 TRAFFIC SIGNAL FACE 4S 12-INCH EACH
5	SB1	--	1
7	SB1	1	--
10	SB2	--	1
2	SB3	1	--
6	SB3	--	1
17	SB3	1	--
3	SB4	1	--
13	SB4	1	--
18	SB5	1	--
1	SB6	1	--
11	SB6	--	1
4	SB7	--	1
8	SB8	1	--
9	SB8	1	--
12	SB8	--	1
14	SB9	1	--
16	SB9	1	--
15	SB10	1	--
TOTAL CAT 0010		12	6

EVP DETECTOR HEADS

LOCATION	SPV.0060.15 TRANSPORT AND INSTALL STATE FURNISHED EVP DETECTOR HEADS (STH 167 & GRANVILLE RD.) EACH
STH 167 & GRANVILLE RD.	1
TOTAL CAT 0010	1

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

REMOVE AND REINSTALL RADIO ANTENNA

LOCATION	SPV.0060.03 REMOVE & REINSTALL WIRELESS COMMUNICATION EQUIPMENT (STH 167 & GRANVILLE RD) EACH
STH 167 & GRANVILLE RD.	1
TOTAL CAT 0010	1

ALL ITEMS CATEGORY 0010

STH 167 (MEQUON RD.) & GRANVILLE RD.
CITY OF MEQUON
OZAUKEE COUNTY

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\030201_MQ-SIGNALS.DWG
LAYOUT NAME - 10
PLOT DATE : 2/19/2025 11:02 AM PLOT BY : NEAL R. STYKA, P.E., PTOE, RSP1 PLOT NAME : PLOT SCALE : 1" = 1'
WISDOT/CADDS SHEET 42

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W IN.	X	H IN.	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0618 POSTS WOOD 4X6INCH X 18FT EACH	638.2102 MOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	SIGN MOUNTED ON SAME POST AS #	REMARKS / NEW SIGN LOCATION
1-01	M1-94H (3)	WASAUKEE RD	60	X	18	7.5				1			MOUNT ON SIGNAL ARM
1-02	R6-2L (2M)		30	X	36	7.5				1		1-01	MOUNT ON SIGNAL POST
1-03	R1-1F (2M)		36	X	36		7.46			1			MOUNT ON SIGNAL POST
1-04	M1-94H (3)	MEQUON RD	60	X	18	7.5				1			MOUNT ON SIGNAL ARM
1-05	R1-1F (3)		36	X	36		7.46			1			MOUNT ON SIGNAL POST
1-06	R1-1F (3)		36	X	36		7.46			1			MOUNT ON SIGNAL POST
1-07	R1-1F (3)		36	X	36		7.46			1			MOUNT ON SIGNAL POST
1-08	R4-7 (3)		36	X	48	12				1		1-06	MOUNT ON SIGNAL POST
1-09	M1-94H (3)	MEQUON RD	60	X	18	7.5				1			MOUNT ON SIGNAL ARM
1-10	R1-1F (2M)		36	X	36		7.46			1			MOUNT ON SIGNAL POST
1-11	R6-2L (2M)		30	X	36	7.5				1			MOUNT ON SIGNAL POST
1-12	M1-94H (3)	WASAUKEE RD	60	X	18	7.5				1		1-11	MOUNT ON SIGNAL ARM
1-13	R4-7 (3)		36	X	48	12				1			MOUNT ON SIGNAL POST
1-14	R1-1F (3)		36	X	36		7.46			1		1-13	MOUNT ON SIGNAL POST
1-15	R6-3 (2M)		30	X	24	5						1-03	MOUNT ON SIGNAL POST
1-16	R6-3 (2M)		30	X	24	5						1-10	MOUNT ON SIGNAL POST
1-17	R5-1 (3)		36	X	36	9				1	1	1-05	MOUNT ON SIGNAL POST
1-18	R5-1 (3)		36	X	36	9				1	1	1-07	MOUNT ON SIGNAL POST
6-01	R1-1F (3)		36	X	36		7.46			1			MOUNT ON SIGNAL POST
6-02	R4-7 (3)		36	X	48	12				1		6-01	MOUNT ON SIGNAL POST
6-03	M1-94H (3)	GRANVILLE RD	60	X	18	7.5				1			MOUNT ON SIGNAL ARM
6-04	R1-1F (3)		36	X	36		7.46			1			MOUNT ON SIGNAL POST
6-05	M1-94H (3)	MEQUON RD	60	X	18	7.5				1			MOUNT ON SIGNAL ARM
6-06	R5-1 (3)		36	X	36	9				1			MOUNT ON SIGNAL POST
6-07	R1-1F (3)		36	X	36		7.46			1		6-06	MOUNT ON SIGNAL POST
6-08	R1-1F (3)		36	X	36		7.46			1			MOUNT ON SIGNAL POST
6-09	R1-1F (3)		36	X	36		7.46			1			MOUNT ON SIGNAL POST
6-10	R4-7 (3)		36	X	48	12				1		6-08	MOUNT ON SIGNAL POST
6-11	M1-94H (3)	MEQUON RD	60	X	18	7.5				1			MOUNT ON SIGNAL ARM
6-12	R1-1F (3)		36	X	36		7.46			1			MOUNT ON SIGNAL POST
6-13	J3-1 (3)	WEST 167 LEFT ARROW	36	X	84					1			MOUNT ON SIGNAL POST
6-14	M1-94H (3)	GRANVILLE RD	60	X	18	7.5				1		6-13	MOUNT ON SIGNAL ARM
6-15	R6-3 (2M)		30	X	24	5						6-04	MOUNT ON SIGNAL POST
6-16	R6-3 (2M)		30	X	24	5						6-12	MOUNT ON SIGNAL POST
6-17	R6-2L (3)		36	X	48	12						6-03	MOUNT ON SIGNAL POST
6-18	R6-2L (3)		36	X	48	12			1				MOUNT ON SIGNAL POST
6-19	R5-1 (3)		36	X	36	9				1	1	6-09	MOUNT ON SIGNAL POST
10-01	W14-3 (2S)		48	X	36			12	1	1	1		
11-01	R2-1 (3)		36	X	48	12			1	1	1		
11-02	R2-1 (3)		36	X	48	12			1	1	1		
12-01	M1-94 (2M)	N SWAN RD	60	X	15	6.25			2	1	2		
12-02	W11-2 (2S)		30	X	30			6.25	1				
12-03	W16-9P (2S)		24	X	12			2				12-02	
13-01	R1-1 (2M)		36	X	36	7.46			1	1			
13-02	R1-1 (2M)		36	X	36	7.46			1	1			
13-03	W11-2 (2S)		30	X	30			6.25	1				
13-04	W16-7L (2S)		24	X	12			2				13-03	
13-05	W11-2 (2S)		30	X	30			6.25	1				
13-06	W16-7L (2S)		24	X	12			2				13-05	
13-07	W11-2 (2S)		30	X	30			6.25	1				
SUBTOTAL						248.17	89.52	43.00	12	37	8		

TYPE II PERMANENT SIGNING 13800270 STH 167

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W IN. X H IN.	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0618 POSTS WOOD 4X6INCH X 18FT EACH	638.2102 MOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	SIGN MOUNTED ON SAME POST AS #	REMARKS / NEW SIGN LOCATION
13-08	W16-9P (2S)		24 X 12			2				13-07	
13-09	W11-2 (2S)		30 X 30			6.25	1				
13-10	W16-9P (2S)		24 X 12			2				13-09	
14-01	W11-2 (2S)		30 X 30			6.25	1				
14-02	W16-7L (2S)		24 X 12			2				14-01	
15-01	R1-1 (2M)		36 X 36	7.46			1	1			
15-02	R1-1 (2M)		36 X 36	7.46			1	1			
15-03	W11-2 (2S)		30 X 30			6.25	1				
15-04	W16-7L (2S)		24 X 12			2				15-03	
15-05	R5-1 (2M)		36 X 36	9			1	1	2		
15-06	R59-51 (2M)		36 X 36	9				1		15-05	
15-07	R5-1A (2M)		42 X 30	8.75			2	1	2		
15-08	D12-2A (2M)		60 X 36	15				1		15-07	
16-01	W11-2 (2S)		30 X 30			6.25	1				
16-02	W16-9P (2S)		24 X 12			2				16-01	
16-03	R1-1 (2M)		36 X 36	7.46			1	1	1		
19-01	W11-2 (2M)		36 X 36			9	1				
19-02	W16-9P (2M)		30 X 18			3.75				19-01	
19-03	W11-2 (2M)		36 X 36			9	1				
19-04	W16-9P (2M)		30 X 18			3.75				19-03	
20-01	R1-1 (2M)		36 X 36	7.46			1	1			
20-02	W11-2 (2M)		36 X 36			9	1				
20-03	W16-7L (2M)		30 X 18			3.75				20-02	
20-04	W11-2 (2M)		36 X 36			9	1				
20-05	W16-7R (2M)		30 X 18			3.75				20-04	
20-06	W11-2 (2M)		36 X 36			9	1				
20-07	W16-7R (2M)		30 X 18			3.75				20-06	
20-08	W11-2 (2M)		36 X 36			9	1				
20-09	W16-7L (2M)		30 X 18			3.75				20-08	
20-10	R1-1 (2M)		36 X 36	7.46			1	1			
20-11	R4-7 (2M)		24 X 30	5				1		20-06	
22-01	W11-2 (2M)		36 X 36			9	1				
22-02	W16-9P (2M)		30 X 18			3.75				22-01	
22-03	W11-2 (2M)		36 X 36			9	1				
22-04	W16-9P (2M)		30 X 18			3.75				22-03	
23-01	R1-1 (2M)		36 X 36	7.46			1	1			
SUBTOTAL				91.51	0.00	137.00	21	11	5		
UNDISTRIBUTED				40.00	15.00	40.00	5	1	5		
PROJECT TOTAL				379.68	104.52	220.00	38	49	18		

3

PAVEMENT MARKING

			646.1020		646.2020		646.2025	646.2040					646.3020	646.4040		646.5020	
			MARKING LINE EPOXY 4-INCH		MARKING LINE EPOXY 6-INCH		MARKING LINE GROOVED BLACK EPOXY 6-INCH	MARKING LINE GROOVED WET REF EPOXY 6-INCH					MARKING LINE EPOXY 8-INCH	MARKING LINE GROOVED WET REF EPOXY 10-INCH		MARKING ARROW EPOXY	MARKING ARROW EPOXY
			WHITE	YELLOW	WHITE	YELLOW		WHITE			YELLOW		WHITE	WHITE		TYPE 2	TYPE 5
			SOLID	SOLID	SOLID	SOLID	12.5' SKIP	SOLID	12.5' SKIP	3' SKIP	SOLID	12.5' SKIP	SOLID	SOLID	3' SKIP		
STATION	TO	STATION	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EACH	EACH
199+89	-	312+00	978	1,525	373	-	119	21,360	381	113	18,174	1,043	1,058	3,862	389	33	2
312+00	-	402+14	-	513	-	93	4,429	18,575	4,429	27	18,777	-	-	3,779	332	26	-
	SUBTOTAL		978	2,038	373	93	-	39,935	4,810	140	36,951	1,043	-	7,640	721	59	2
	TOTAL		3,016		466		4,549	82,878					1,058	8,362		61	

3

PAVEMENT MARKING

			646.5120	646.6120	646.6220	646.7120		646.7420	646.7520	646.8020	646.8120	646.8220
			MARKING WORD EPOXY	MARKING STOP LINE EPOXY 18-INCH	MARKING YIELD LINE EPOXY 18-INCH	MARKING DIAGONAL EPOXY 12-INCH		MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH	MARKING CORRUGATED MEDIAN EPOXY	MARKING CURB EPOXY	MARKING ISLAND NOSE EPOXY
				WHITE	WHITE	WHITE	YELLOW	WHITE	WHITE	YELLOW	YELLOW	YELLOW
				SOLID		SOLID	SOLID	SOLID		SOLID	SOLID	SOLID
STATION	TO	STATION	EACH	LF	LF	LF	LF	LF	LF	SF	LF	EACH
199+89	-	312+00	13	442	-	1,294	302	-	-	1,548	64	8
312+00	-	402+14	3	316	57	-	269	1,865	114	756	246	18
	SUBTOTAL		-	-	-	1,294	572	-	-	-	-	-
	TOTAL		16	758	57	1,866		1,865	114	2,304	310	26

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	MISCELLANEOUS QUANTITIES	SHEET 216	E

CONVENTIONAL SYMBOLS

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

SECTION CORNER SYMBOL
SECTION CORNER MONUMENT
GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
SIGN (SIGN)
OFF-PREMISE SIGN (#1-25) (SIGN)

R/W MONUMENT (TO BE SET)
NON-MONUMENTED R/W POINT
FOUND IRON PIN (1-INCH UNLESS NOTED) IP

	COMPENSABLE	NON-COMPENSABLE
ELECTRIC POLE	■	□
TELEPHONE POLE	●	⌀
PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)	▣	⊡

ACCESS RESTRICTED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)
PARCEL NUMBER 25
UTILITY NUMBER 40
PARALLEL OFFSETS

CONVENTIONAL 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	☒

CONVENTIONAL ABBREVIATIONS

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

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

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), OZAUKEE COUNTY, NAD 83 (2011) 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 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".

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

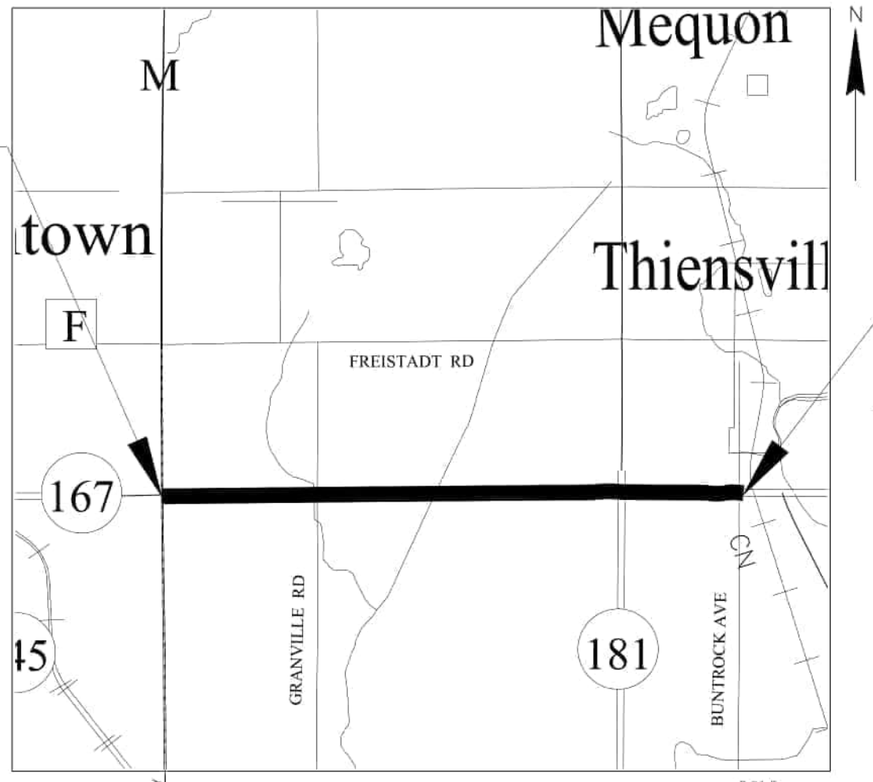
FOR CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

THE EXISTING RIGHT OF WAY SHOWN HEREIN IS BASED ON RIGHT OF WAY PROJECTS 1382-00-23, 1382-01-20, 2140-05-20 AND ASSOCIATED DOCUMENTS, EXISTING CERTIFIED SURVEY MAPS AND OTHER SURVEYS OF PUBLIC RECORD.

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

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

BEGIN RELOCATION ORDER
STA. 200+89.20
THE NW 1/4 CORNER OF SECTION 30, T9N, R21E
X=564,857.27
Y=366,146.15



END RELOCATION ORDER
STA. 401+75.00
11.30' SOUTH AND 1650.74' WEST OF THE NORTHWEST CORNER OF SECTION 26, T9N, R21E
Y = 366,287.07
X = 584,531.50

TOTAL NET LENGTH OF CENTERLINE = 3.804 MI

THIS PLAT IS A GRAPHIC REPRESENTATION AND IS FOR REFERENCE PURPOSES ONLY. DEEDS MUST BE CHECKED TO DETERMINE PROPERTY BOUNDARIES AND ACCESS RIGHTS.

R/W PROJECT NUMBER 1380-02-21	SHEET NUMBER	TOTAL SHEETS
FEDERAL PROJECT NUMBER	4.01	

PLAT OF RIGHT OF WAY REQUIRED FOR

MEQUON ROAD, CITY OF MEQUON
WASHINGTON CO LINE — BUNTROCK AVE

STH 167	OZAUKEE COUNTY

CONSTRUCTION PROJECT NUMBER 1380-02-70

kapur
7711 N. Port Washington Road
Milwaukee, Wisconsin 53217
414.751.7200
kapurinc.com

ORIGINAL PLAT PREPARED BY

WISCONSIN LAND SURVEYOR — CHRISTOPHER S. HARTZELL S-2833 WEST BEND, WI

28 November 2023 (Date)

CHRISTOPHER S. HARTZELL
KAPUR & ASSOCIATES
P.L.S. NUMBER S-2833

REVISION DATE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED FOR THE DEPARTMENT

DATE: 11-29-2023 (Signatur

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\1380200\RW\DWG\220570_RW_PLAT_TITLE.DWG
PLOT DATE : 11/28/2023 9:53 AM
PLOT BY : CHRIS HARTZELL, PLS, CWI
PLOT NAME :

SCHEDULE OF LANDS & INTERESTS REQUIRED

AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED.

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

PARCEL NUMBER	SHEET NUMBER	OWNER	INTEREST REQUIRED	FEE AREA (ACRES)	PLE AREA (ACRES)	TLE AREA (ACRES)	PARCEL NUMBE
1	4.04	Joseph Gooding	FEE	0.051			1
2	4.05	Christopher D. Belser Laura A Adair	PLE		0.007		2
3	4.06	Concord Creek Reserve Homeowner's Association, Inc.	TLE			0.025	3
4	4.06	Labarbera Property LLC	TLE			0.007	4
5	4.06	Stone Wall Farms, Inc.	TLE			0.006	5
6	4.06	Donald E. Gierach	TLE			0.079	6
7	4.07	Tracy La Londe Micheal La Londe	TLE			0.013	7
8	4.07	Richard A. Kremer Elizabeth A. Staehler	TLE			0.001	8
9	4.07	Clemens K Stoeckl Nancy A. Stoeckl	TLE			0.001	9
500	4.04, 4.06, 4.07	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS				500
501	4.04, 4.07	WE ENERGIES - GAS	RELEASE OF RIGHTS				501
502	4.06, 4.07	AT&T WISCONSIN	RELEASE OF RIGHTS				502
503	4.06, 4.07	SPECTRUM	RELEASE OF RIGHTS				503

4

4

REVISION DATE

DATE

SCALE, FEET

0

HWY: STH 167

COUNTY: OZAUKEE

STATE R/W PROJECT NUMBER 1380-02-21

CONSTRUCTION PROJECT NUMBER 1380-02-70

PLAT SHEET 4.02

PS&E SHEET

E

FILE NAME : 220570_RW_SCHEDULE_LAYOUT.DWG
LAYOUT NAME - 4.02

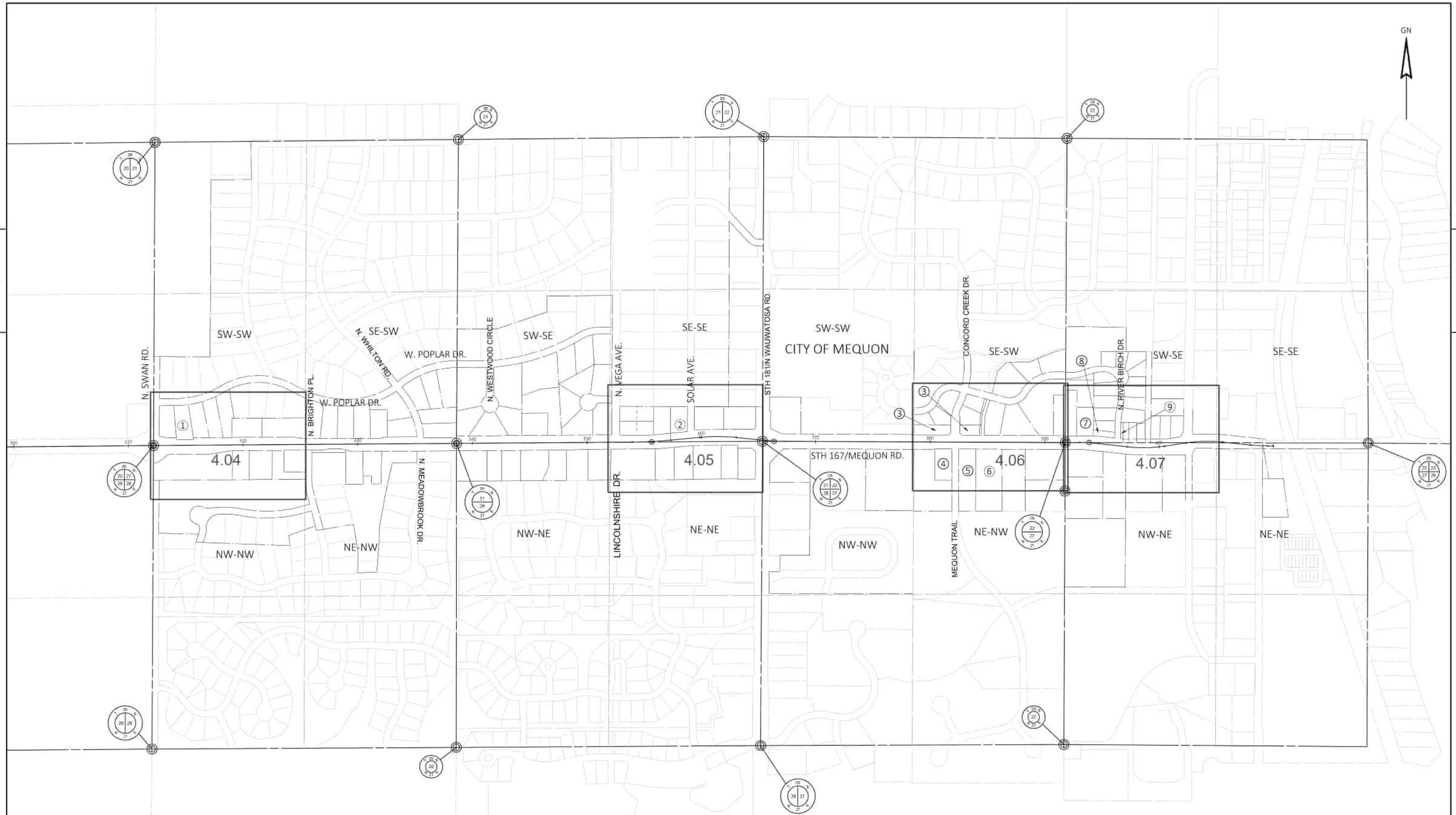
PLOT DATE : 11/28/2023 9:53 AM

PLOT BY : CHRIS HARTZELL, PLS, CWI

PLOT NAME :

PLOT SCALE :

WISDOT/CADDS SHEET 75

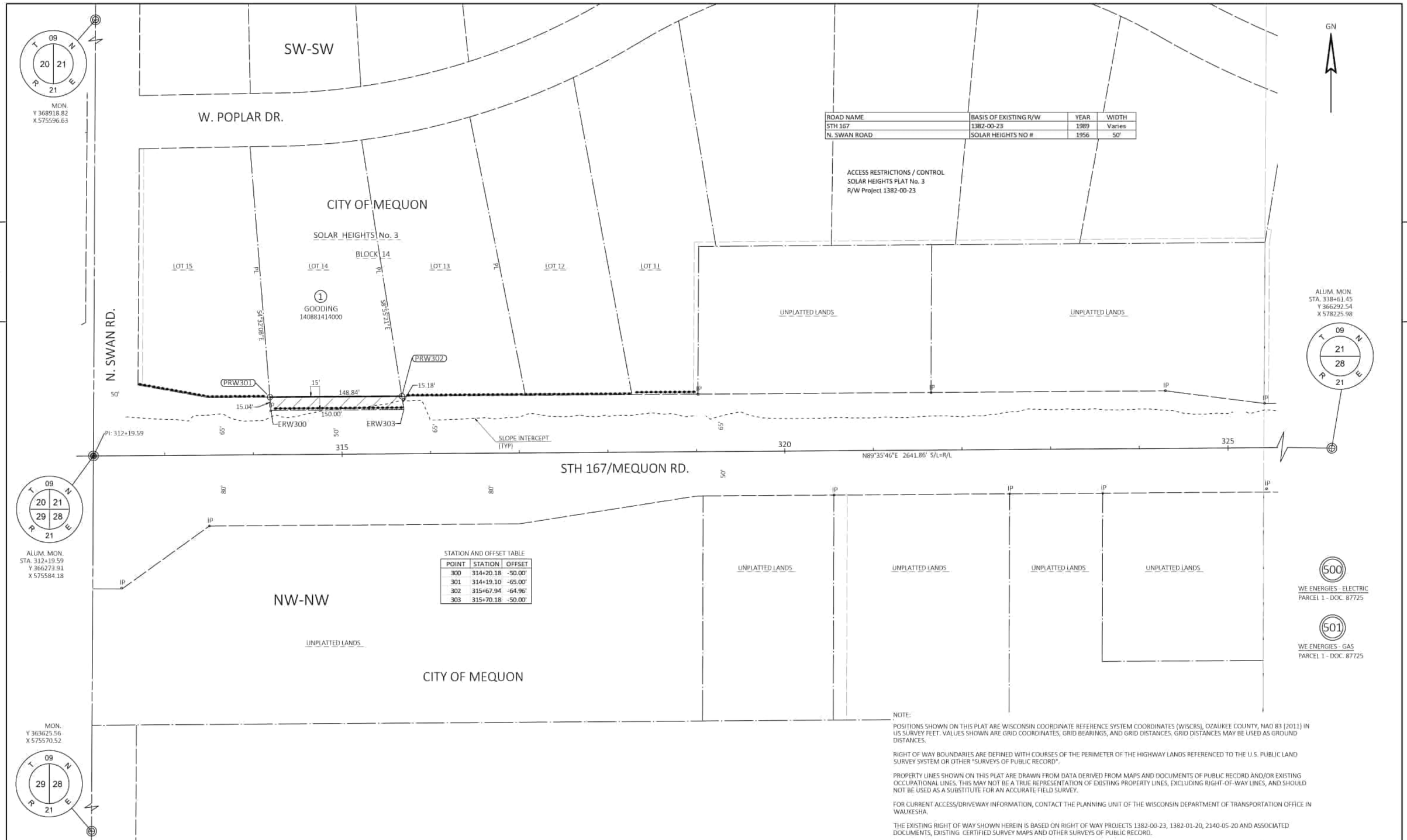


REVISION DATE:	DATE	SCALE, FEET 0 400 800	HWY: STH 167	STATE R/W PROJECT NUMBER 1380-02-21	PLAT SHEET 4.03
			COUNTY: OZAUKEE	CONSTRUCTION PROJECT NUMBER 1380-02-70	PS&E SHEET 219 E

FILE NAME : 220570_RW_SCHEDULE_LAYOUT.DWG
LAYOUT NAME - 4.03

PLOT DATE : 11/28/2023 9:53 AM PLOT BY : CHRIS HARTZELL, PLS, CWI PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 75



ROAD NAME	BASIS OF EXISTING R/W	YEAR	WIDTH
STH 167	1382-00-23	1989	Varies
N. SWAN ROAD	SOLAR HEIGHTS NO #	1956	50'

STATION AND OFFSET TABLE

POINT	STATION	OFFSET
300	314+20.18	-50.00'
301	314+19.10	-65.00'
302	315+67.94	-64.96'
303	315+70.18	-50.00'

NOTE:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), OZAUKEE COUNTY, NAD 83 (2011) 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 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".

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

THE EXISTING RIGHT OF WAY SHOWN HEREIN IS BASED ON RIGHT OF WAY PROJECTS 1382-00-23, 1382-01-20, 2140-05-20 AND ASSOCIATED DOCUMENTS, EXISTING CERTIFIED SURVEY MAPS AND OTHER SURVEYS OF PUBLIC RECORD.

REVISION DATE:	DATE	SCALE: FEET 0 50 100	HWY: STH 167	STATE R/W PROJECT NUMBER 1380-02-21	PLAT SHEET 4.04
			COUNTY: OZAUKEE	CONSTRUCTION PROJECT NUMBER 1380-02-70	PS&E SHEET 220 E

FILE NAME : 220570_RW_PLAT.DWG
LAYOUT NAME - 4.04

PLOT DATE : 11/28/2023 9:54 AM PLOT BY : CHRIS HARTZELL, PLS, CWI PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 75

4

4

STATION AND OFFSET TABLE

POINT	STATION	OFFSET
328	358+12.42	-60.07'
329	358+82.22	-69.05'
332	358+81.33	-60.09'

ROAD NAME	BASIS OF EXISTING R/W	YEAR	WIDTH
STH 167	1382-00-23	1989	Varies
STH 181	2140-05-20	1985	Varies
SOLAR AVENUE	ASSESSOR'S PLAT NO. 3	1953	60'
VEGA AVENUE	ASSESSOR'S PLAT NO. 3	1953	60'
LINCOLNSHIRE DRIVE	CSM 2867	1992	60'

GN

SE-SE

T 09 N
R 21 E
21 22

MON.
Y 368968.54
X 580909.74

ACCESS RESTRICTIONS / CONTROL
RIGHT OF WAY PLAT 1382-00-23

CITY OF MEQUON

1/16TH

N. VEGA AVE.

ASSESSOR'S PLAT No. 3
BLOCK 1

LOT 1

LOT 2

LOT 3

LOT 4

② BESLER
140510104000

1 A.P.

PLE 329

PLE DRAINAGE

PLE 328

N77°10'16"E
70.37'

68.90'

9.00'

ERW332

SOLAR AVE.

S0°13'12"W

60'

72'

PL

N84°29'00"E

SLOPE INTERCEPT (TYP)

N0°13'12"E
88.10'

PC: 353+93.67

PT: 357+33.66

N84°30'13"E R/L

355

360

PC: 359+84.68

PI: 361+46.21

PT: 363+06.69

S84°13'35"E R/L

365

660.05'

S89°36'12"W 2672.60' S/L

ASSESSOR'S PLAT No. 3
BLOCK 2

60'

STH 181/N WAUWATOSA RD.

PC: 365+45.10

STH 167/MEQUON RD.

PI: 355+63.77

09
T N
21 22
28 27
R E
21

ALUM. MON.
STA 365+38.40, 9.58' RT
Y 366311.04
X 580898.51

09
T N
21
28
R E
21

ALUM. MON.
STA. 338+61.45
Y 366292.54
X 578225.98

60'

LINCOLNSHIRE DR.
PUBLIC ROAD RESERVATION

1/16TH

PI STA = 355+63.77
Y = 366304.320
X = 579928.263
DELTA = 5°06'00" LT
D = 1°30'00"
T = 170.11'
L = 339.99'
R = 3819.72'
PC STA = 353+93.67
PT STA = 357+33.66

LOT 4
CSM 2867

LOT 3
CSM 2867

LOT 2
CSM 2867

CITY OF MEQUON

PI STA = 361+46.21
Y = 366360.130
X = 580508.240
DELTA = 11°16'12" RT
D = 3°30'00"
T = 161.52'
L = 322.00'
R = 1637.02'
PC STA = 359+84.68
PT STA = 363+06.69

UNIT 12
LEGEND COURT TOWNHOMES CONDOMINIUM

LOT 2
CSM 3522

NE-NE

UNPLATTED LANDS

60'

09
T N
28 27
R E
21

MON.
Y 363692.11
X 580772.40

NOTE:

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

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REVISION DATE	DATE	SCALE, FEET	HWY: STH 167	STATE R/W PROJECT NUMBER 1380-02-21	PLAT SHEET 4.05	
		0 50 100	COUNTY: OZAUKEE	CONSTRUCTION PROJECT NUMBER 1380-02-70	PS&E SHEET 221	E

FILE NAME : 220570_RW_PLAT.DWG
LAYOUT NAME - 4.05

PLOT DATE : 11/28/2023 9:54 AM PLOT BY : CHRIS HARTZELL, PLS, CWI PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 75

NOTE:

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

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ROAD NAME	BASIS OF EXISTING R/W	YEAR	WIDTH
STH 167	1382-00-20	1987	120'
STH 167	1382-00-23	1989	120'
CONCORD CREEK DRIVE	REPLAT OF CONCORD CREEK	2005	80'

ACCESS RESTRICTIONS / CONTROL
CONCORD CREEK RESERVE

MON.
Y 368953.42
X 583554.64

T 09 N R 21 E 22

GN

CITY OF MEQUON

LOT 9 | LOT 10 | LOT 11 | LOT 8 | LOT 7

CONCORD CREEK RESERVE

CONCORD CREEK DR.

PINE RESERVE CONDOMINIUM | SECOND ADDENDUM TO PINE RESERVE CONDOMINIUM | THIRD ADDENDUM TO PINE RESERVE CONDOMINIUM

UNIT 18 | UNIT 17 | UNIT 16 | UNIT 15 | UNIT 1

SE-SW

UNPLATTED LANDS

OUTLOT 1 | OUTLOT 5

3 CONCORD CREEK RESERVE

TLE GRADING 0.012 AC | TLE GRADING 0.013 AC

6' WE ENERGIES ELECTRIC EASEMENT DOC. 1015560

12' WE ENERGIES ELECTRIC EASEMENT DOC. 1015559

TLE 304 | TLE 305 | TLE 306 | TLE 307 | TLE 308 | TLE 309

ERW333 | ERW334

S45°11'16"W 21.19' | N44°48'44"W 21.23' | S0°14'32"W 15.00' | N0°14'32"E 15.00'

41.43' | 26.46' | 45.27' | 30.25'

80' | 60' | 120' | 988.00' | 927.94' | 550.00' | 60'

380 | 385 | 390

N89°45'28"W 2449.09' R/L=S/L

PI: 391+78.57

STH 167/MEQUON RD.

SLOPE INTERCEPT (TYP)

TLE 310 | TLE 311 | TLE 312 | TLE 313 | TLE 314 | TLE 315 | TLE 316 | TLE 317

ERW335 | ERW336

N56°14'21"W 36.15' | N53°33'23"E 33.90' | 27.19' | 20.25' | 30.13' | 19.96' | 15.00' | 230.73'

S0°13'07"W 60.00' | N0°14'32"E | S0°14'32"W 60.00'

TLE GRADING

4 LABARBERA PROPERTY LLC
140270500300

5 STONE WALL FARMS, INC.
140270500700

6 GIERACH
140270501300

MEQUON TRAIL

CITY OF MEQUON

8' WE ENERGIES ELECTRIC & AT&T EASEMENT DOC. 428487

10'X15' WE ENERGIES ELECTRIC & AT&T EASEMENT DOC. 428482

12' WE ENERGIES ELECTRIC, AT&T AND SPECTRUM EASEMENT DOC. 1036220

STATION AND OFFSET TABLE

POINT	STATION	OFFSET
304	381+30.16	-60.00'
305	381+30.16	-75.00'
306	381+71.59	-75.00'
307	382+65.72	-75.00'
308	383+10.99	-75.00'
309	383+11.05	-60.00'
310	381+60.47	60.00'
311	381+90.60	79.96'
312	382+50.66	80.25'
313	382+77.85	60.00'
314	383+97.84	60.00'
315	383+97.84	75.00'
316	386+28.57	60.00'
317	386+28.57	75.00'
333	381+56.62	-60.00'
334	382+80.75	-60.00'
335	381+90.59	60.00'
336	382+50.66	60.00'

UNPLATTED LANDS

500 WE ENERGIES - ELECTRIC
PARCEL 3 - DOC. 1015559, 1015560
PARCEL 5 - DOC. 428487
PARCEL 6 - DOC. 428482, 1036220

502 AT&T WI
PARCEL 3 - NO RECORD OF EASEMENT
PARCEL 4 - NO RECORD OF EASEMENT
PARCEL 5 - DOC. 428487, NO RECORD OF EASEMENT
PARCEL 6 - DOC. 428482,1036220

503 SPECTRUM
PARCEL 3 - NO RECORD OF EASEMENT
PARCEL 4 - NO RECORD OF EASEMENT
PARCEL 5 - NO RECORD OF EASEMENT
PARCEL 6 - DOC. 1036220

LOT 1
CSM 3968

NE-NW

PI: 391+78.57

BRASS. MON.
STA. 391+78.40
Y 366299.87
X 583539.27

MON.
Y 363665.02
X 583527.21

T 09 N R 21 E 27

ALUM. MON.
Y 366311.04
X 580898.51

T 09 N R 21 E 21 22 28 27

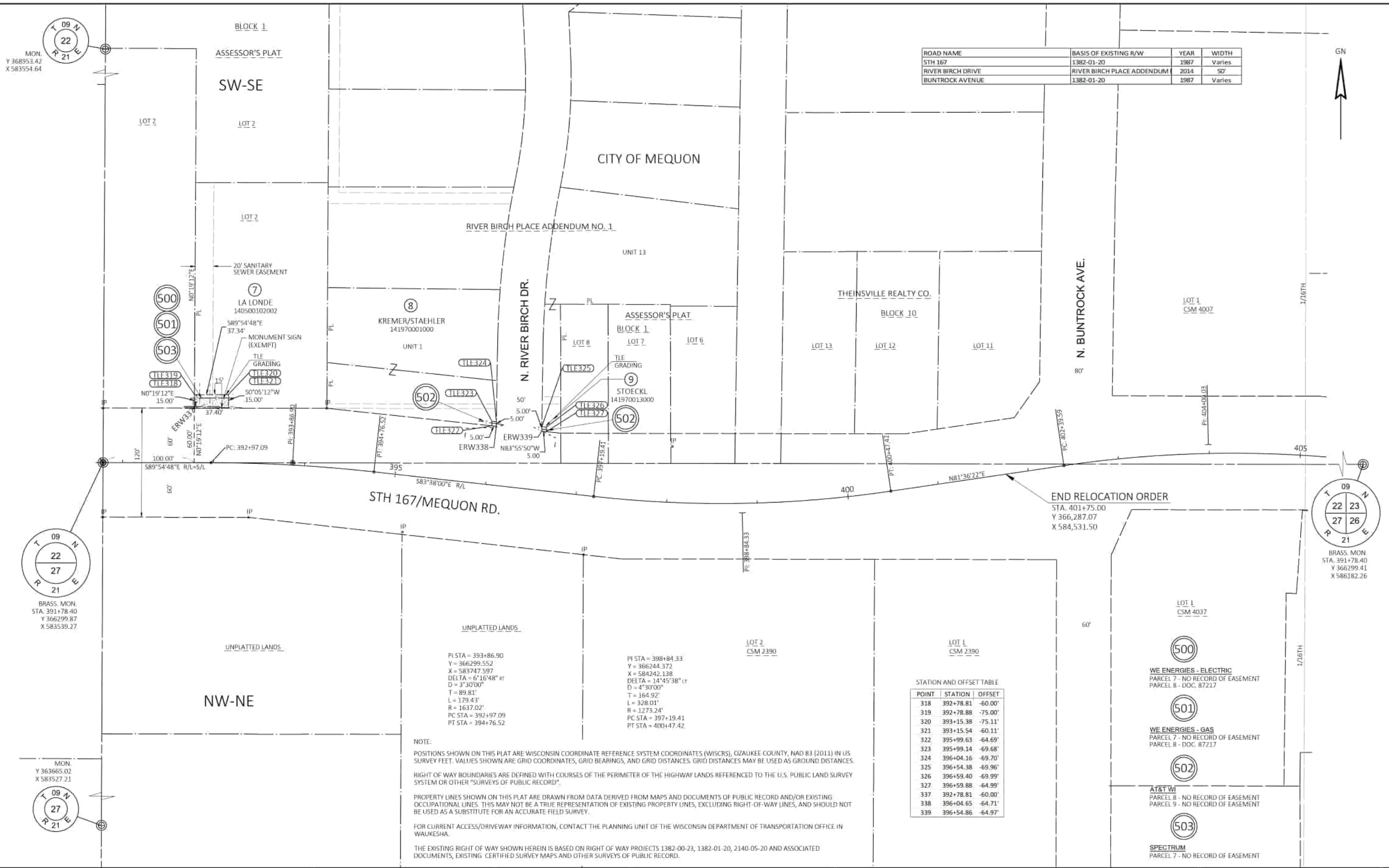
1/16TH | PL

REVISION DATE	DATE	SCALE, FEET	HWY: STH 167	STATE R/W PROJECT NUMBER 1380-02-21	PLAT SHEET 4.06	
		0 50 100	COUNTY: OZAUKEE	CONSTRUCTION PROJECT NUMBER 1380-02-70	PS&E SHEET	E

FILE NAME : 220570_RW_PLAT.DWG
LAYOUT NAME - 4.06

PLOT DATE : 11/28/2023 9:54 AM PLOT BY : CHRIS HARTZELL, PLS, CWI PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 75



ROAD NAME	BASIS OF EXISTING R/W	YEAR	WIDTH
STH 167	1382-01-20	1987	Varies
RIVER BIRCH DRIVE	RIVER BIRCH PLACE ADDENDUM I	2014	50'
BUNTROCK AVENUE	1382-01-20	1987	Varies

STATION AND OFFSET TABLE

POINT	STATION	OFFSET
318	392+78.81	-60.00'
319	392+78.88	-75.00'
320	393+15.38	-75.11'
321	393+15.54	-60.11'
322	395+99.63	-64.69'
323	395+99.14	-69.68'
324	396+04.16	-69.70'
325	396+54.38	-69.96'
326	396+59.40	-69.99'
327	396+59.88	-64.99'
337	392+78.81	-60.00'
338	396+04.65	-64.71'
339	396+54.86	-64.97'

NOTE:

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REVISION DATE:	DATE	SCALE, FEET	HWY: STH 167	STATE R/W PROJECT NUMBER 1380-02-21	PLAT SHEET 4.07	
		0 50 100	COUNTY: OZAUKEE	CONSTRUCTION PROJECT NUMBER 1380-02-70	PS&E SHEET 223	E

FILE NAME : 220570_RW_PLAT.DWG
LAYOUT NAME - 4.07

PLOT DATE : 11/28/2023 9:54 AM PLOT BY : CHRIS HARTZELL, PLS, CWI PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 75

BEGIN PROJECT
STA 199+89.00

N WASAUKEE RD

T 09 N
R 24 19 E
25 30
20

WETLAND BOUNDARY (TYP)

EXISTING R/W

200 205 210

STH 167/MEQUON RD

EXISTING TRAFFIC SIGNALS TO BE REPLACED

WETLAND BOUNDARY (TYP)

EXISTING R/W

MATCH LINE 214+00

5

5

MATCH LINE 214+00

BEGIN MILL AND OVERLAY
STA 219+50.00

WETLAND BOUNDARY (TYP)

R/L STH 167

EXISTING R/W

REPLACE 48-INCH CULVERT PIPE
SEE CULVERT PIPE PLAN

2' 5' 12'

215 220 225

STH 167/MEQUON RD

8' 12'

EXISTING R/W

UNNAMED INTERMITTENT STREAM (WBIC 18450)

WETLAND BOUNDARY (TYP)

MATCH LINE 214+00

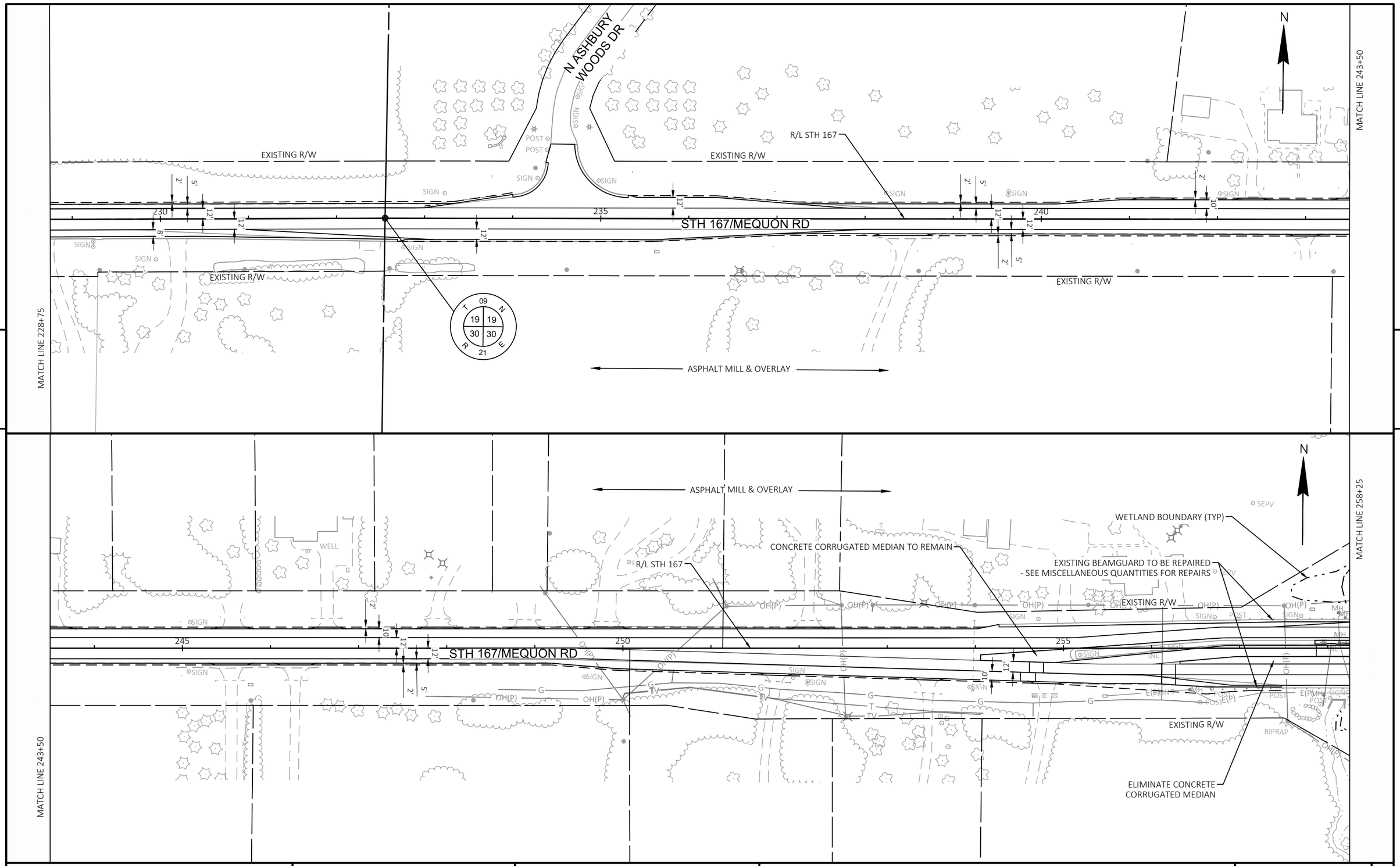
MATCH LINE 228+75

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PLAN - STH 167	SHEET 224	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\050101-PP.DWG
LAYOUT NAME - PP8

PLOT DATE : 2/17/2025 2:49 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PLAN - STH 167	SHEET 225	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\050101-PP.DWG
LAYOUT NAME - PP9

PLOT DATE : 10/31/2024 12:51 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

WETLAND BOUNDARY (TYP)

EXISTING BEAMGUARD TO BE REPAIRED
- SEE MISCELLANEOUS QUANTITIES FOR REPAIRS

EXISTING TRAFFIC SIGNALS TO BE REPLACED

ELIMINATE CONCRETE CORRUGATED MEDIAN

CONCRETE CORRUGATED MEDIAN TO REMAIN

R/L STH 167

EXISTING R/W

GRANVILLE RD

STH 167/MEQUON RD

SUTTON RIDGE DR

N FARMDALE RD

C-45-0031 TO REMAIN
REPAIR NW WINGWALL

ASPHALT MILL & OVERLAY

EXISTING BEAMGUARD TO BE REPAIRED
- SEE MISCELLANEOUS QUANTITIES FOR REPAIRS

MATCH LINE 258+25

MATCH LINE 273+00

MATCH LINE 273+00

MATCH LINE 287+75

N

260 265 270 275 280 285

12' 11' 2' 5' 10'

SIGN POST RIPRAP SLAB OH(P) E(P) MH INL SS

09 N
19 20
30 29
R 21 E

09 N
20 20
29 29
R 21 E

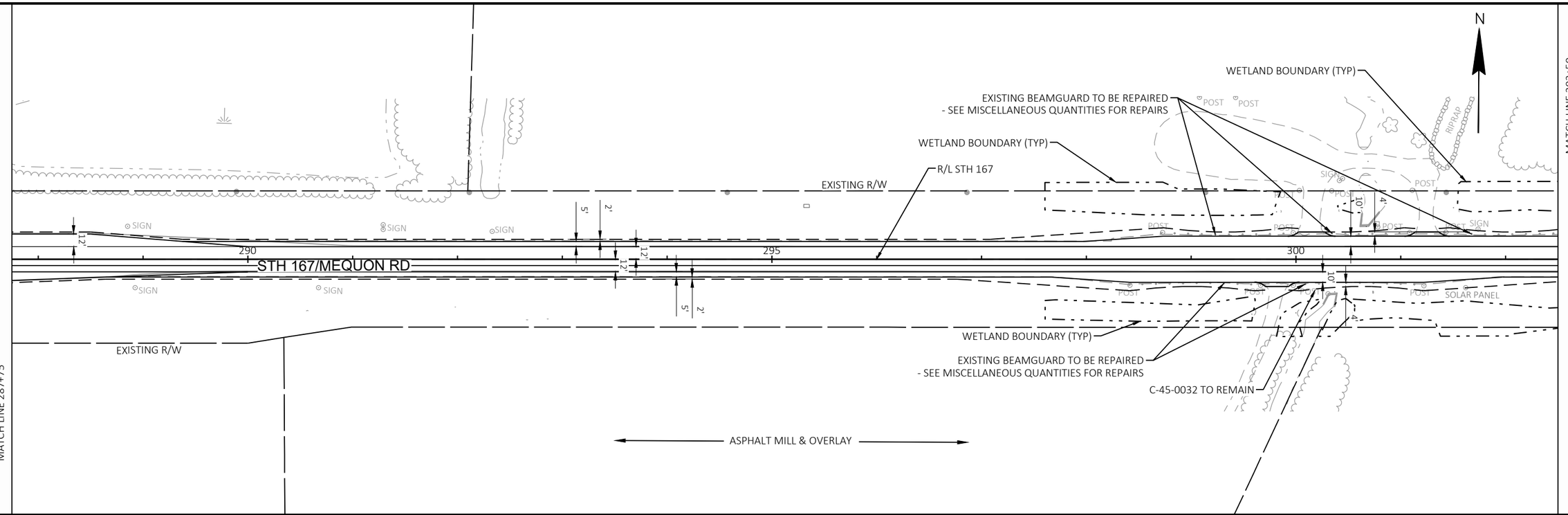
5 5

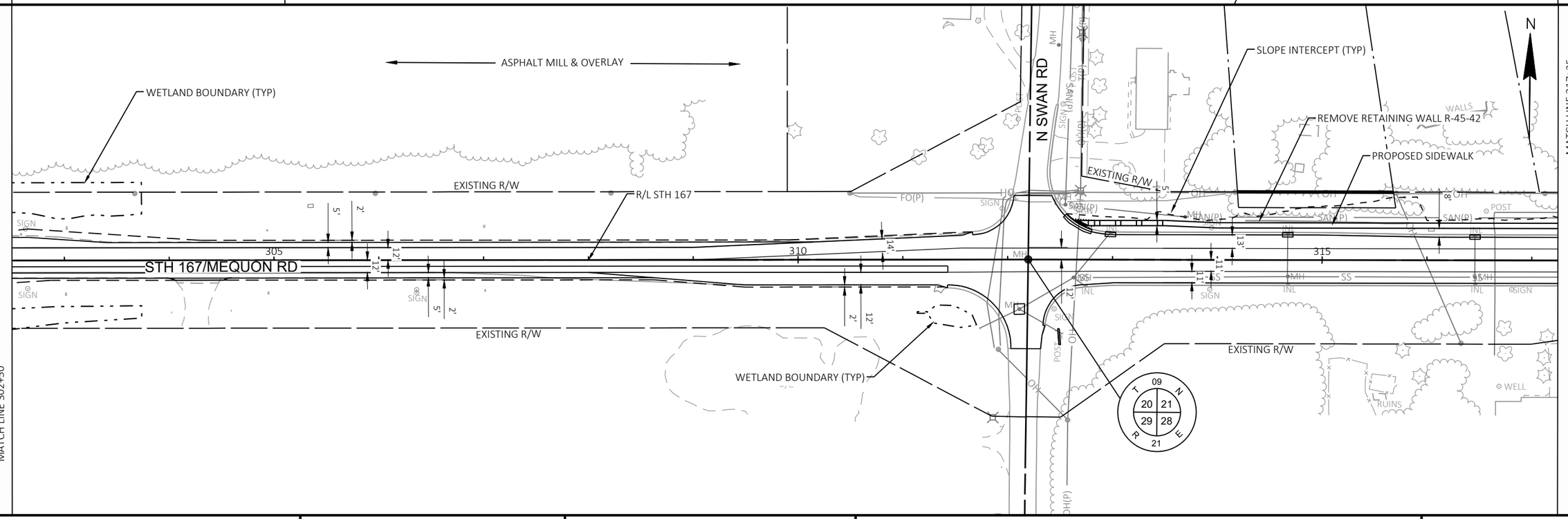
PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PLAN - STH 167	SHEET 226	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\050101-PP.DWG
LAYOUT NAME - PP10

PLOT DATE : 10/31/2024 12:51 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44





PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PLAN - STH 167	SHEET 227	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\050101-PP.DWG
LAYOUT NAME - PP11
PLOT DATE : 10/31/2024 12:51 PM
PLOT BY : KARIMULLAH HABIBUR
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

MATCH LINE 317+25

MATCH LINE 332+00

MATCH LINE 332+00

MATCH LINE 346+75

5

5

N

N

WETLAND BOUNDARY (TYP)

PROPOSED SIDEWALK

EXISTING BEAMGUARD TO BE REPAIRED
- SEE MISCELLANEOUS QUANTITIES FOR REPAIRS

R/L STH 167

SLOPE INTERCEPT (TYP)

EXISTING R/W

STH 167/MEQUON RD

320

325

330

EXISTING R/W

EXISTING R/W

STAUSS CEMETERY

EXISTING R/W

MINOR RETAINING WALL CAP REPLACEMENT
DO NOT DISTURB EXISTING GROUND
BEHIND RETAINING WALL

N BRIGHTON PL

ASPHALT MILL & OVERLAY

N MEADOWBROOK DR

ASPHALT MILL & OVERLAY

PROPOSED SIDEWALK

REPLACE ENDWALL

SLOPE INTERCEPT (TYP)

PROPOSED SIDEWALK

WETLAND BOUNDARY (TYP)

R/L STH 167

EXISTING R/W

EXISTING R/W

335

340

345

STH 167/MEQUON RD

EXISTING R/W

REPLACE ENDWALL

EXISTING R/W

WETLAND BOUNDARY (TYP)

N WHILTON RD

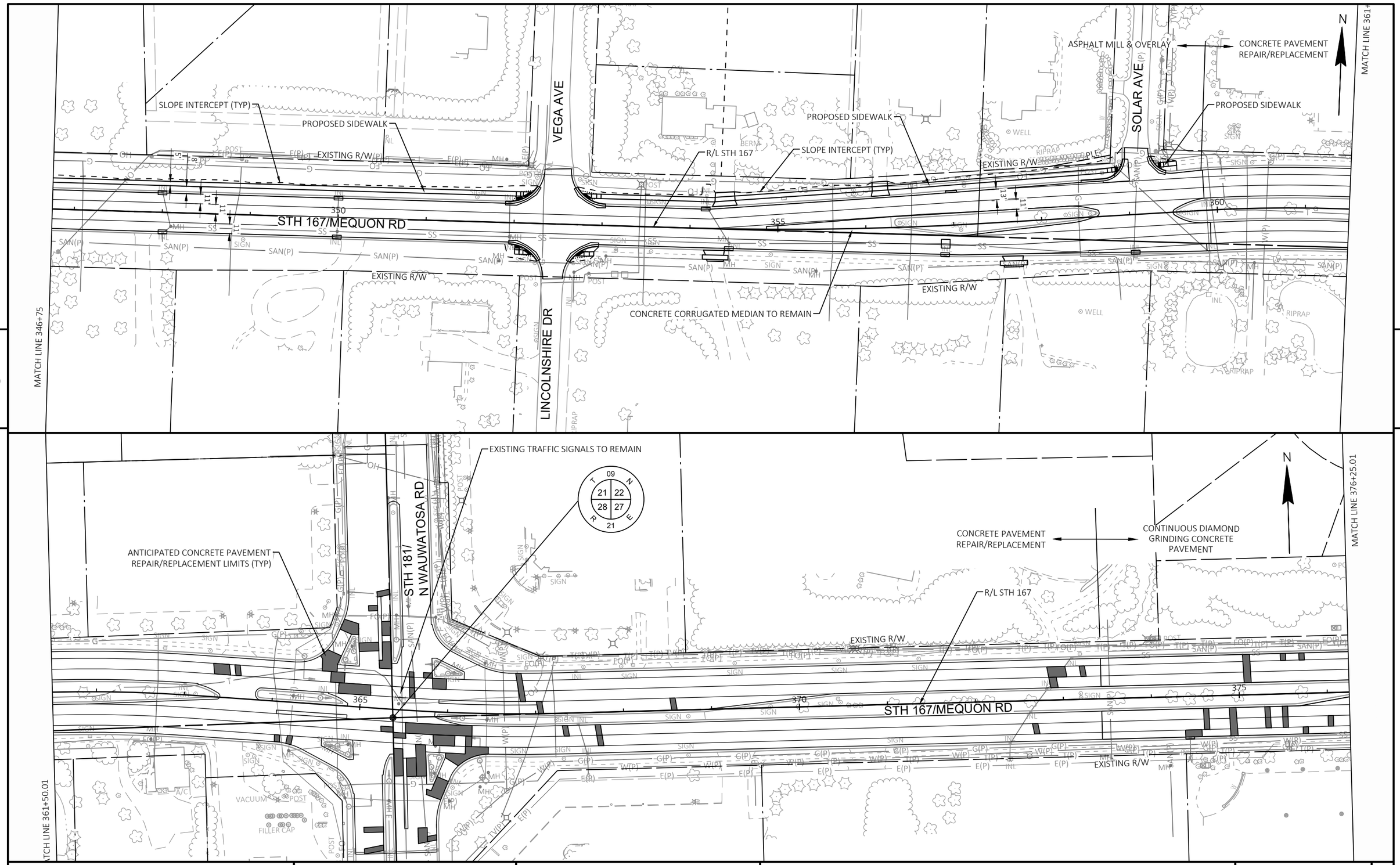
T 09 N
R 21 E
21 21
28 28
21

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PLAN - STH 167	SHEET 228	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\050101-PP.DWG
LAYOUT NAME - PP12

PLOT DATE : 10/31/2024 12:51 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

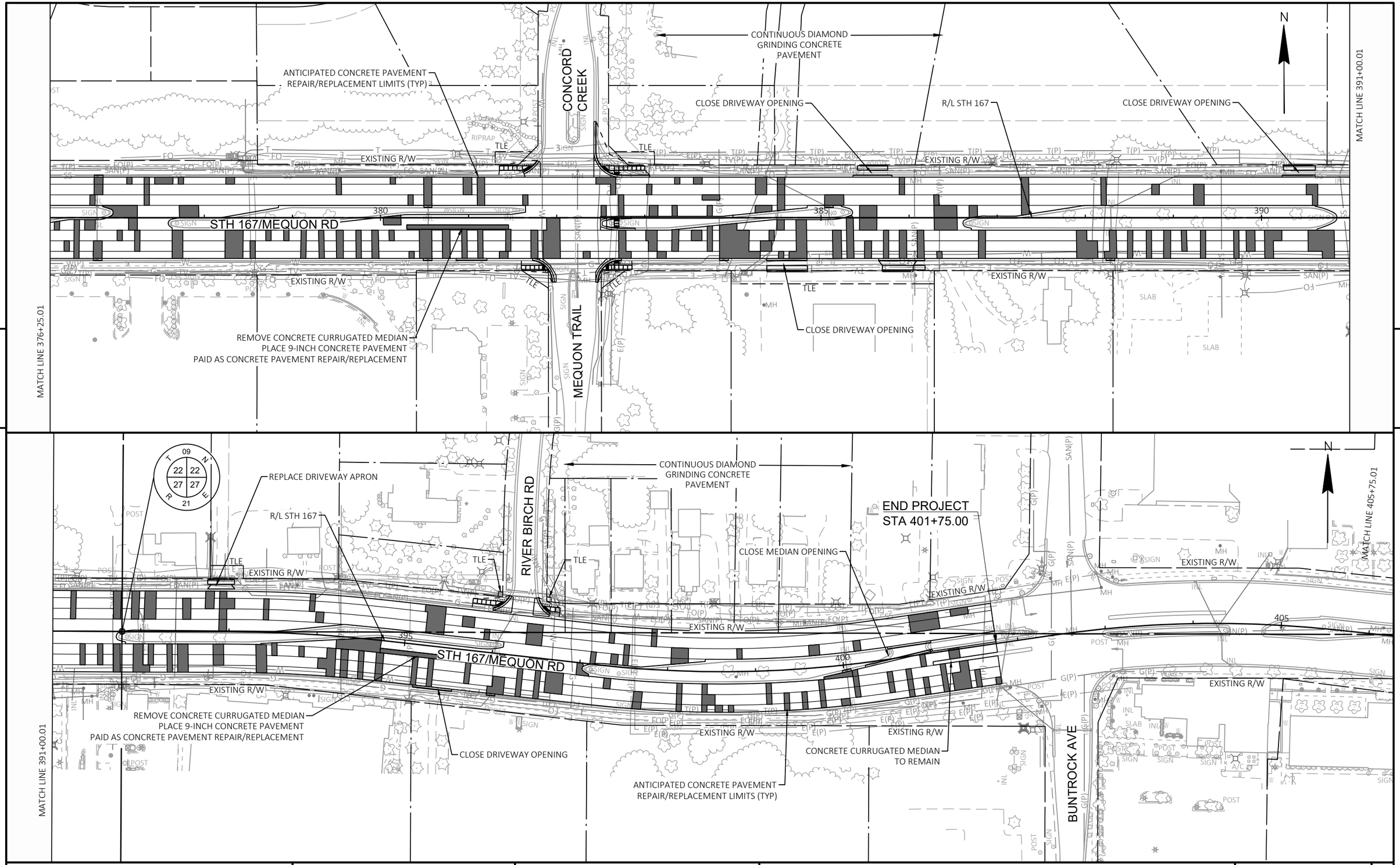


PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PLAN - STH 167	SHEET 229	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\050101-PP.DWG
LAYOUT NAME - PP13

PLOT DATE : 10/31/2024 12:52 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	PLAN - STH 167	SHEET 230	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\050101-PP.DWG
LAYOUT NAME - PP14

PLOT DATE : 10/31/2024 12:52 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

Standard Detail Drawing List

08A05-21A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-21B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-21E	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-04	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT, 10-FT DIAMETER
08C06-03	INLETS 3-FT AND 4-FT DIAMETER
08C08-03	INLETS MEDIAN 1 AND 2 GRATE
08D01-23A	CONCRETE CURB & GUTTER
08D01-23B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
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
08D16-11	CONCRETE GUTTER, CURB AND GUTTER AND PAVEMENT TIES
08D18-04	DRIVEWAY AND SIDEWALK RAMPS TYPES X & Y
08D22-01	DRIVEWAYS WITHOUT CURB & GUTTER RESURFACING PROJECTS RURAL
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-08	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09B02-10	CONDUIT
09B04-13	PULL BOX
09C02-09	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C06-07	CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL
09C11-10	CONCRETE BASE TYPE 10
09C15-01	CONCRETE BASE TYPE 10 SPECIAL
09D01-05	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09E08-09A	TYPE 9 POLE 15'-30' MONOTUBE ARM
09E08-09G	TYPE 10 SPECIAL POLE 40' MONOTUBE ARM
09E08-09H	TYPE 10 SPECIAL POLE 45' MONOTUBE ARM
09F10-04	LOOP DETECTOR INSTALLED IN EXISTING OR NEW ASPHALTIC PAVEMENT WITH NEW ASPHALTIC OVERLAY
09G01-04A	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
11B02-02	CONCRETE MEDIAN NOSE
13C09-17A	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C09-17B	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C09-17C	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
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
13C19-03	HMA LONGITUDINAL JOINTS
14B42-07A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B43-04A	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B43-04B	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B43-04C	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B47-05A	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-05B	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-05C	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-05D	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-05E	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-05F	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-05G	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B53-02A	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-02B	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-02C	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-02D	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-02E	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

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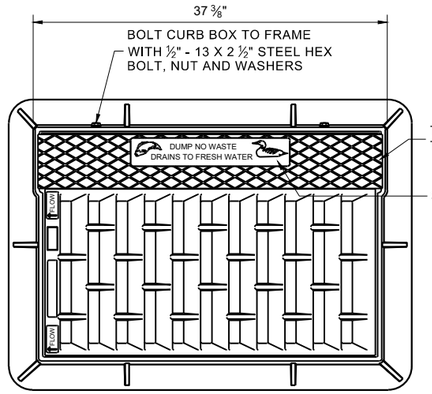
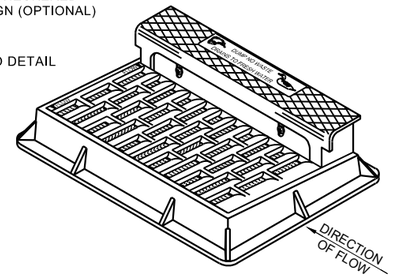
Standard Detail Drawing List

14B53-02F	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-02G	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-02H	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-02I	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
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
15C07-16B	PAVEMENT MARKING WORDS
15C07-16C	PAVEMENT MARKING ARROWS
15C08-23A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C08-23B	TEMPORARY LONGITUDINAL PAVEMENT MARKING
15C08-23C	PAVEMENT MARKING (TURN LANES)
15C08-23D	PAVEMENT MARKING (TURN LANES)
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-09A	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C18-09A	MEDIAN ISLAND MARKINGS
15C18-09B	PAVEMENT MARKINGS, MEDIAN ISLAND NOSE
15C18-09C	MEDIAN PAVEMENT MARKINGS DOUBLE ARROW WARNING SIGN PLACEMENT
15C20-02	YIELD MARKING
15C33-05	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-06A	PAVEMENT MARKING (INTERSECTIONS)
15D20-09A	TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY
15D20-09B	TRAFFIC CONTROL, SINGLE RIGHT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESSWAY
15D20-09C	TRAFFIC CONTROL, SINGLE LEFT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESSWAY
15D21-07A	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D21-07B	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D27-03	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D30-10A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-10B	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-10C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-10D	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-10E	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-10F	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-10G	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-10H	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-10I	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-10J	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-10K	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-10L	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D50-03A	TRAFFIC CONTROL, ADDED LANE CLOSURE WITHOUT LANE SHIFT
15D50-03B	TRAFFIC CONTROL, ADDED LANE CLOSURE WITH LANE SHIFT

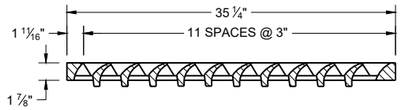
6

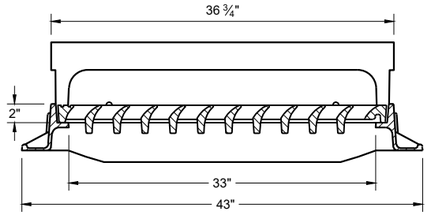


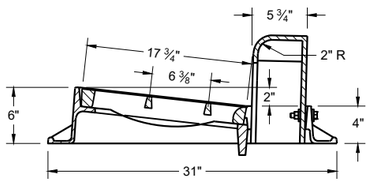
NOTE: EITHER CASTING IS ACCEPTABLE

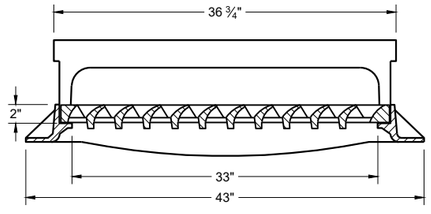


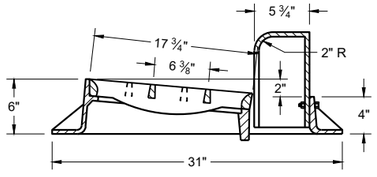
NOTE: CURB BOX HEIGHT ADJUSTABLE 6" - 9"







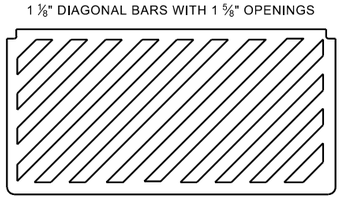




TYPE "H"

NOTE: EITHER CASTING IS ACCEPTABLE

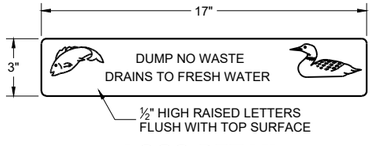
1 ⅛" DIAGONAL BARS WITH 1 ⅝" OPENINGS



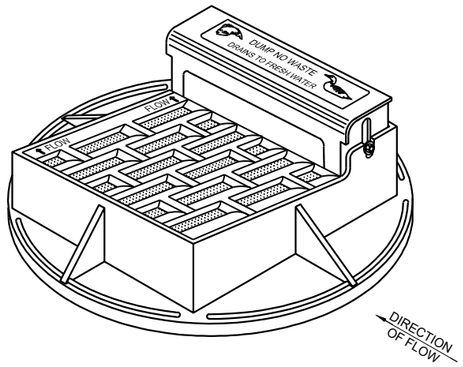
SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35" X 17 ¾" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)

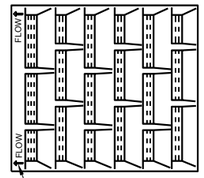


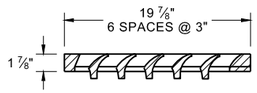
LOGO DETAIL

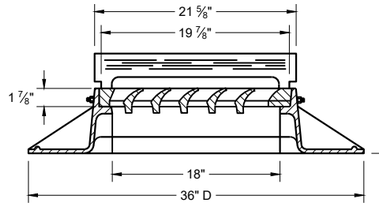


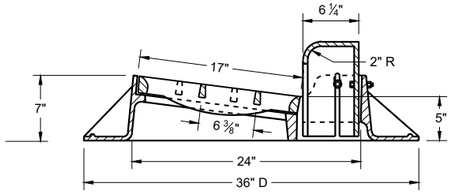
NOTE: CURB BOX HEIGHT ADJUSTABLE 6" - 9"

NOTE: EITHER CASTING IS ACCEPTABLE

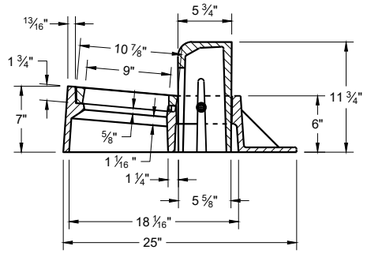


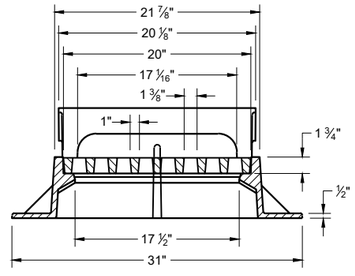






TYPE "A"





TYPE "Z"

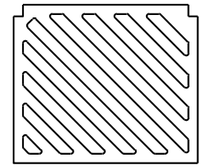
GENERAL NOTES

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.

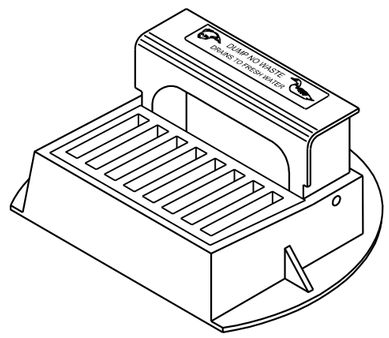
1" DIAGONAL BARS WITH 1 ½" OPENINGS



SPECIAL GRATE FOR TYPE "A" COVER

(MEASURES 19 ¾" X 17" X 1 ⅞")

(NOTED AS TYPE A-S ON DRAINAGE TABLE)



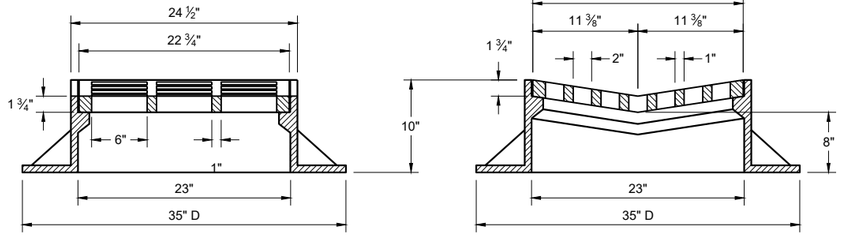
INLET COVERS
TYPES A, H, A-S, H-S AND Z

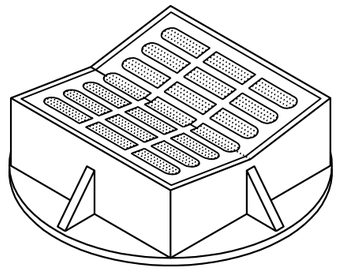
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December 2023
DATE

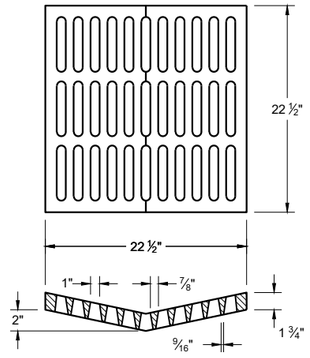
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA





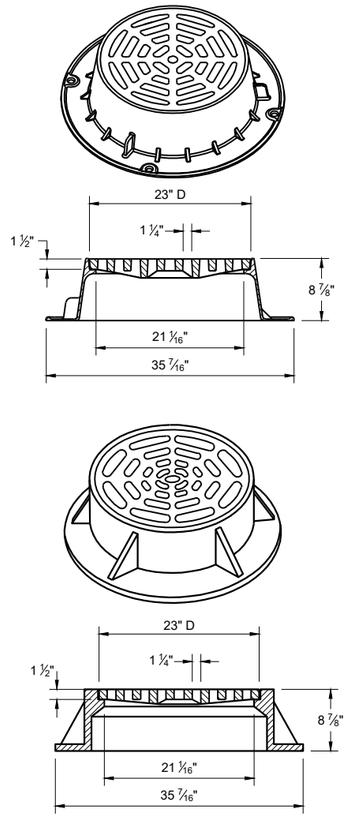
TYPE "B"



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"

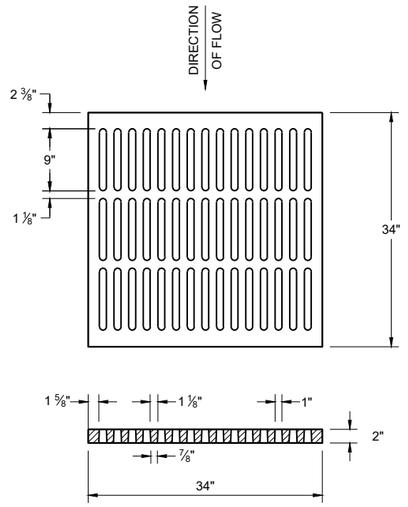
NOTE: EITHER CASTING IS ACCEPTABLE

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.

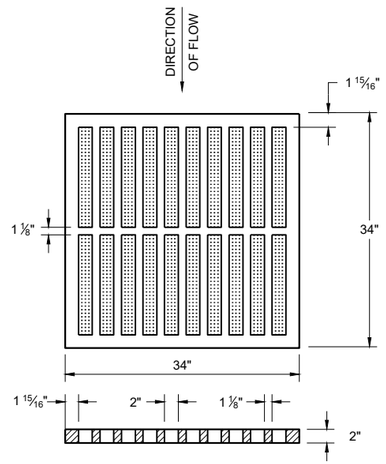
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OF BICYCLE TRAFFIC IS PERMITTED

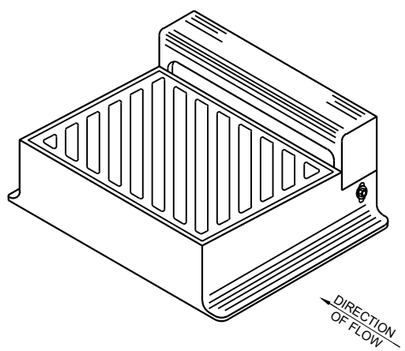
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE



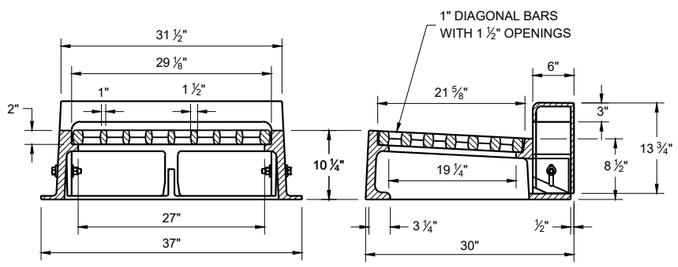
TYPE "MS"

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

FHWA

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SDD 08A05-21b

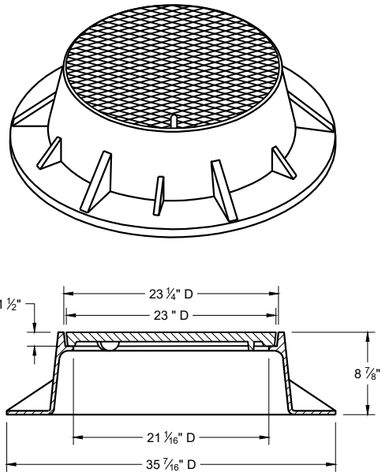
SDD 08A05-21b

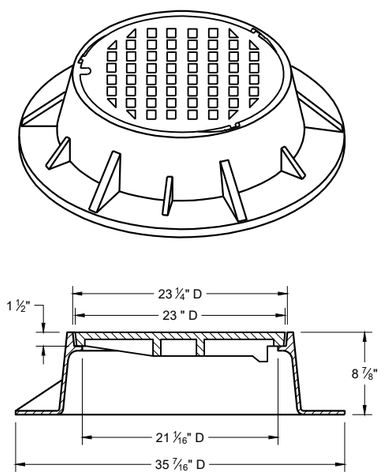
GENERAL NOTES

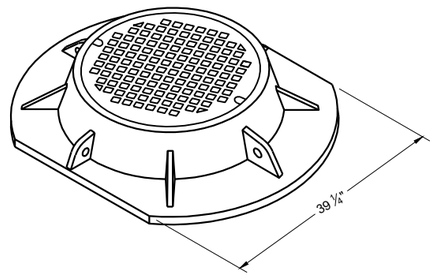
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

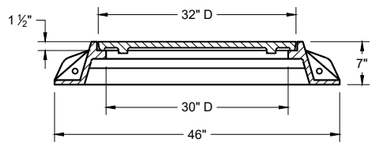
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

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









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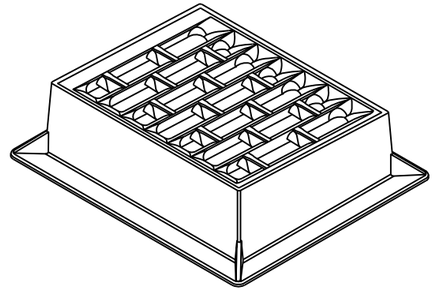
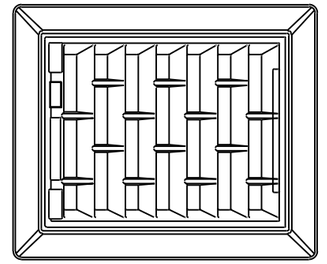
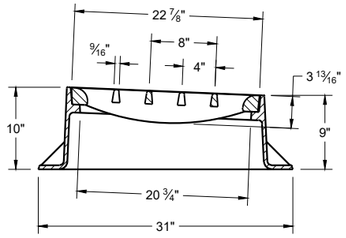
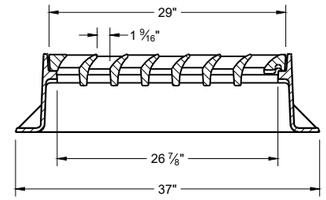
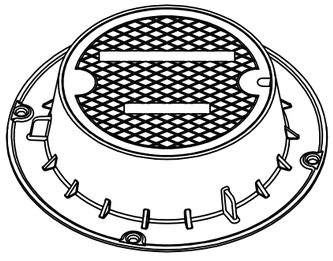


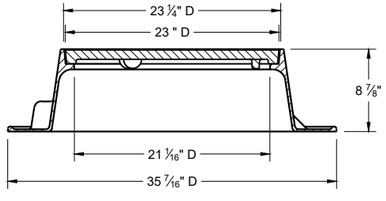






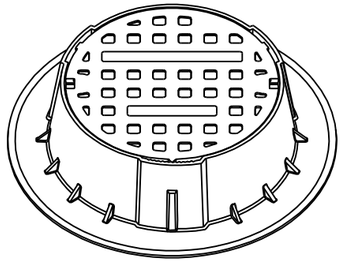
INLET COVER TYPE "BW"

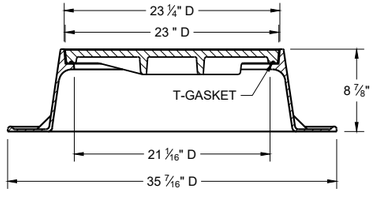




TYPE "J"

NOTE: EITHER CASTING IS ACCEPTABLE

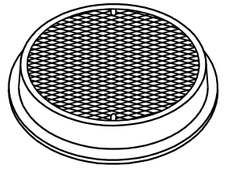


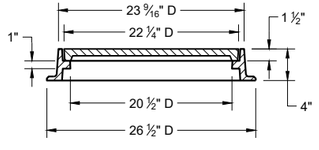


TYPE "J" SPECIAL

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

NOTE: EITHER CASTING IS ACCEPTABLE





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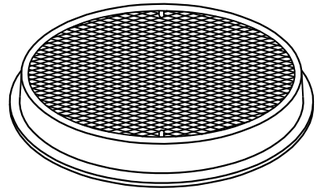

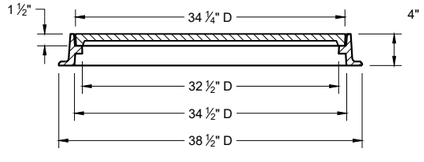

TYPE "M"

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

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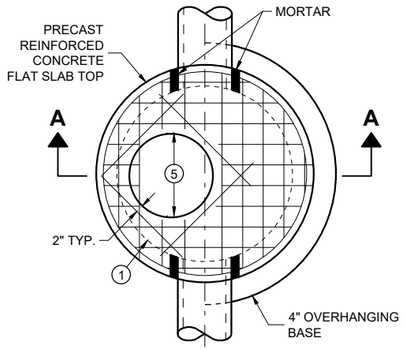
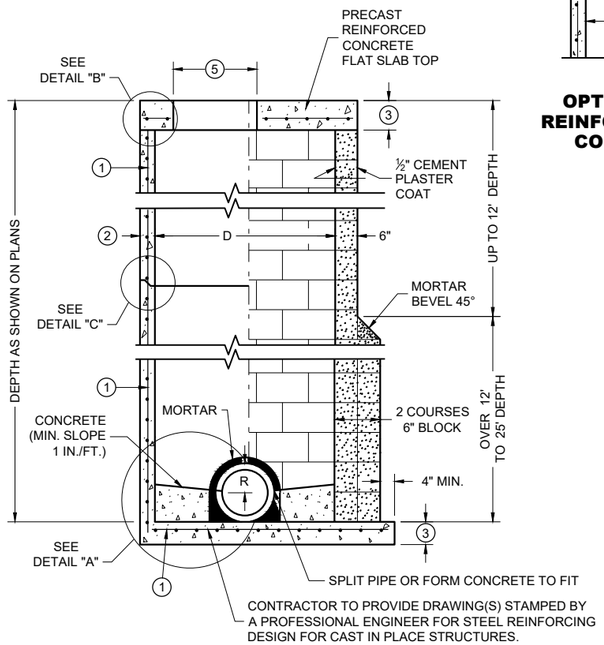
SDD 08A05-21e



PLAN VIEW

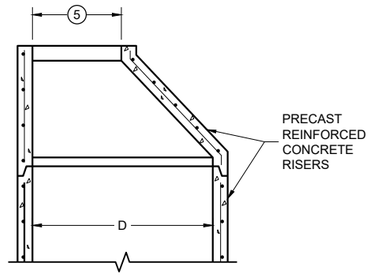
CIRCULAR OPENING



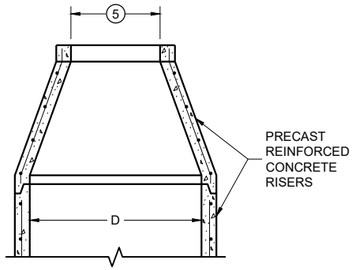
SECTION A - A

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

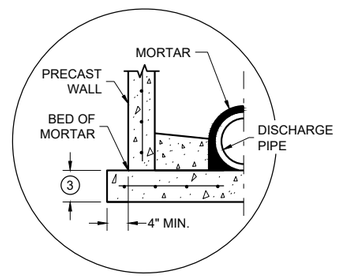
MANHOLE COVER OPENING MATRIX

OPENING SIZE (FT.) (5) \ MANHOLE COVER TYPE	C	ALL J'S	K	L	M
2 DIA.	X	X		X	
3 DIA.			X		X

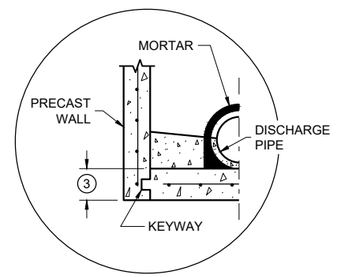
PIPE MATRIX

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

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

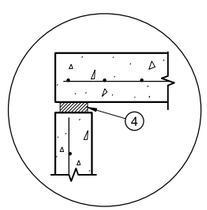


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

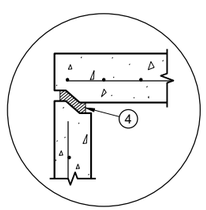


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

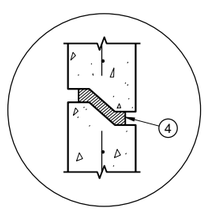
DETAIL "A"



TOP WITH PLAIN END JOINT



TOP WITH TONGUE AND GROOVE JOINT



RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

DETAIL "C"

GENERAL NOTES

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

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

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

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

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

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

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

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

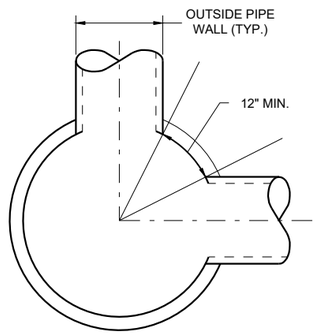
(1) FOR PRECAST MANHOLES AND REINFORCED CONCRETE BASES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

(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 OR RUBBER GASKETS CONFORMING TO ASTM C443.

(5) SEE MANHOLE COVER OPENING MATRIX.



MINIMUM HORIZONTAL PIPE SEPARATION

DETAIL "D"

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

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

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DEPARTMENT OF TRANSPORTATION

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

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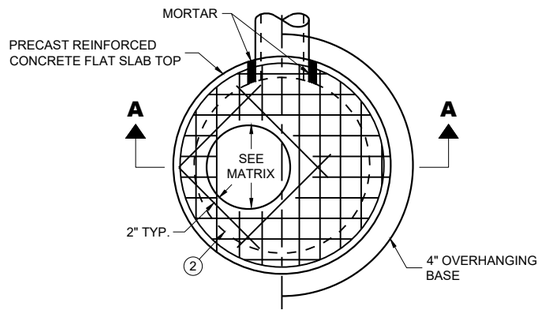
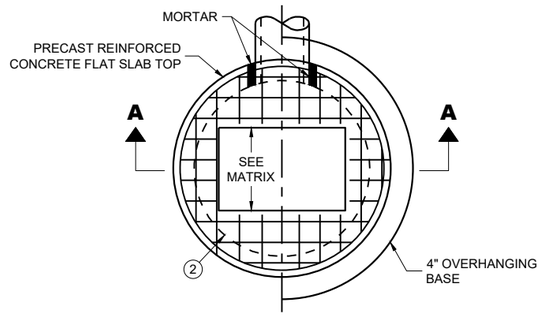
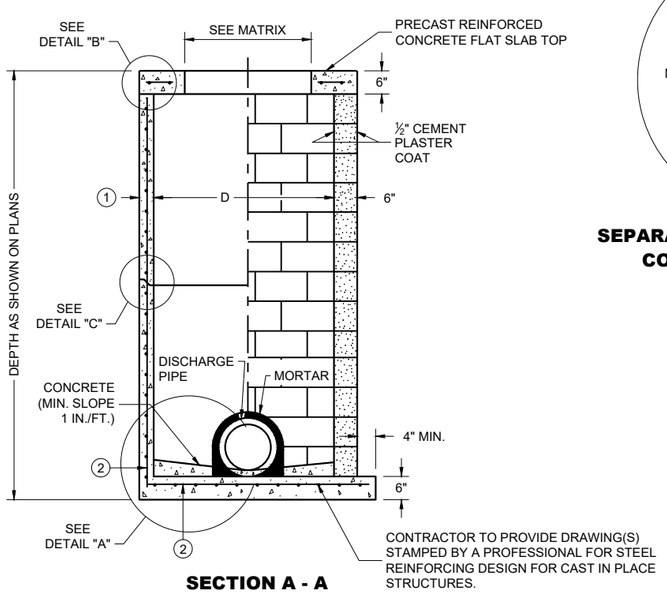


PLAN VIEW CIRCULAR OPENING



PLAN VIEW RECTANGULAR OPENING



SECTION A - A

PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST IN PLACE OR PRECAST REINFORCED CONCRETE BASE (2)

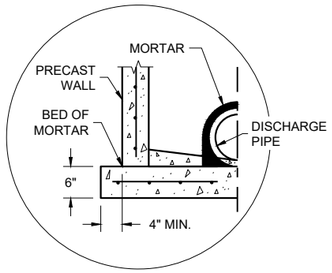
CIRCULAR INLETS WITH FLAT TOP

CATCH BASIN COVER OPENING MATRIX

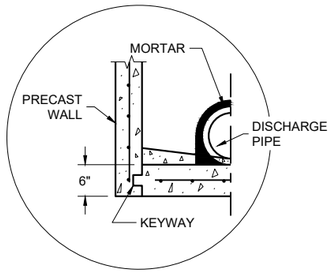
INLET SIZE	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
	OPENING SIZE (FT.)											
3-FT	2 DIA.				X							X
	2 X 2	X	X					X		X		
4-FT	2 DIA.				X							X
	2 X 2	X	X					X		X		
	2 X 2.5			X				X	X	X	X	
	2 X 3						X					
	2.5 X 3					X						

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

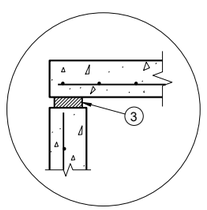


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

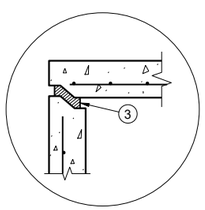


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

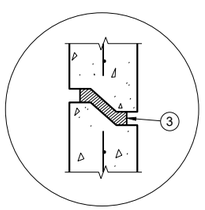
DETAIL "A"



TOP WITH PLAIN END JOINT



TOP WITH TONGUE AND GROOVE JOINT



RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B" **DETAIL "C"**

INLETS 3-FT AND 4-FT DIAMETER

GENERAL NOTES

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

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

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

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

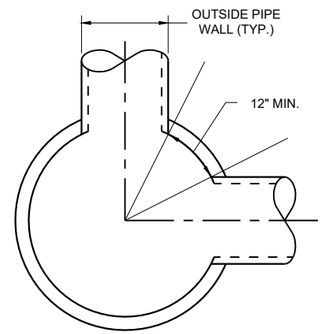
4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

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

(1) MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT DIAMETER AND 5 INCHES FOR 4-FT DIAMTER PRECAST INLETS.

(2) FOR PRECAST INLETS AND REINFORCED CONCRETE BASES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

(3) JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 OR RUBBER GASKETS CONFORMING TO ASTM C443.



MINIMUM HORIZONTAL PIPE SEPARATION

DETAIL "D"

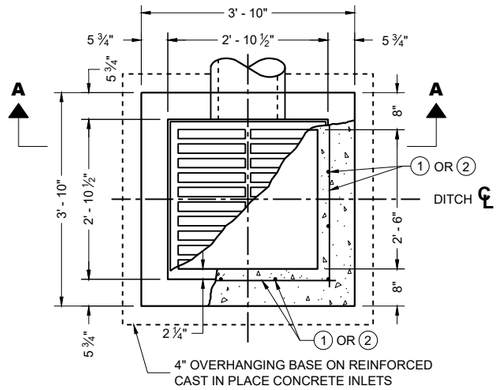
INLETS 3-FT AND 4-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

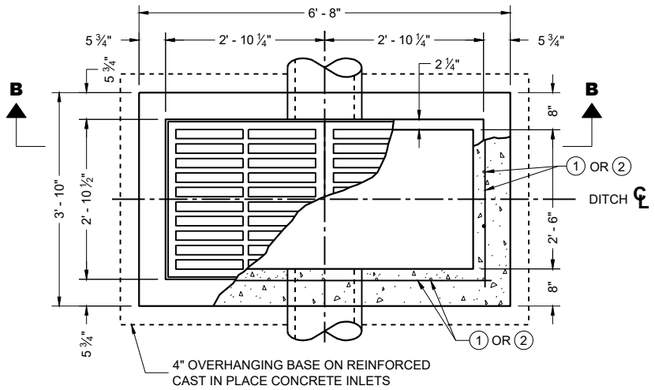
APPROVED
December 2023 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

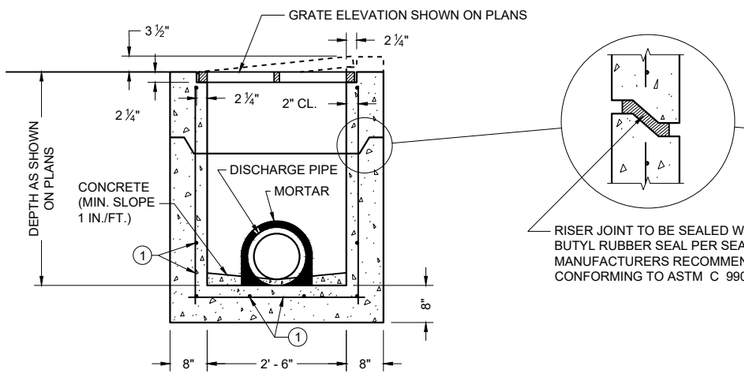
6
SDD 08C06-03



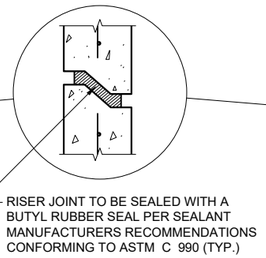
PLAN VIEW

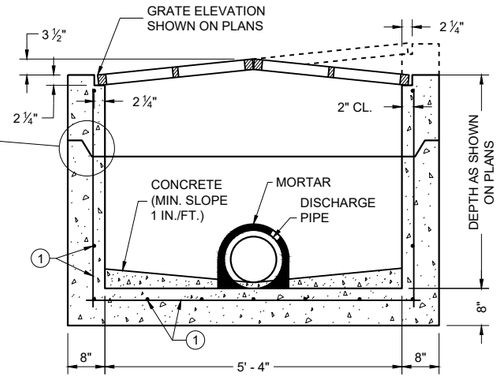


PLAN VIEW



PRECAST REINFORCED CONCRETE SECTION A - A





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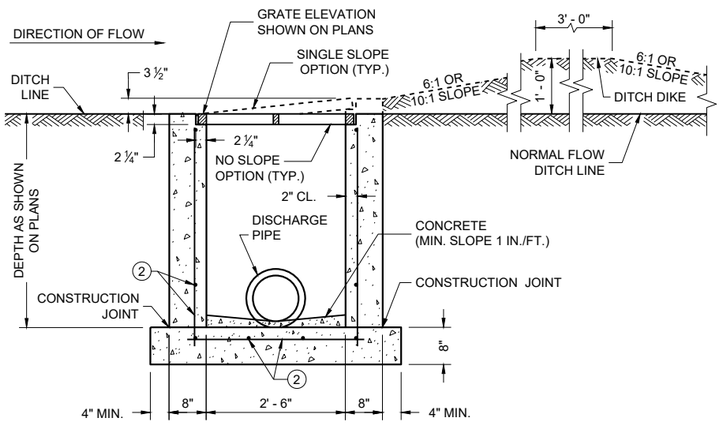
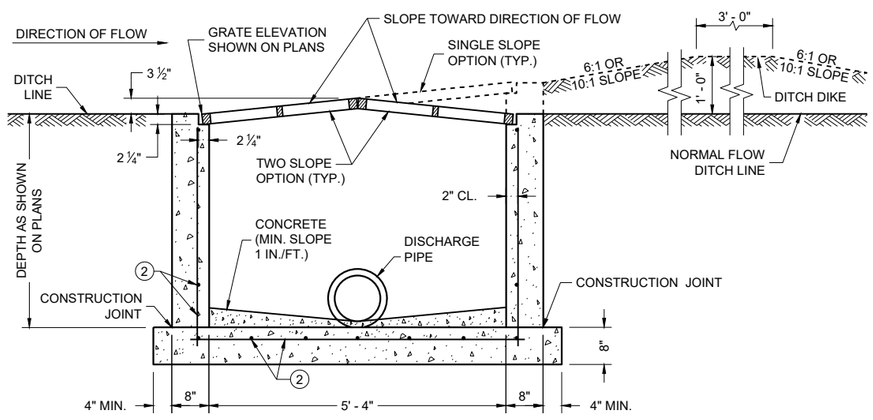


REINFORCED CAST IN PLACE CONCRETE SECTION A - A

INLETS MEDIAN 1 GRATE



REINFORCED CAST IN PLACE CONCRETE SECTION B - B

INLETS MEDIAN 2 GRATE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP N0T SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 1G-MS", ETC. THE FIRST NUMBER AND LETTER DESIGNATE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DESIGNATE THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

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

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

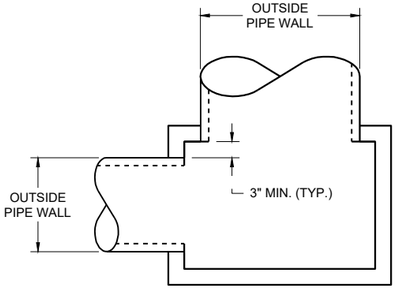
ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

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

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

(1) FOR PRECAST INLETS AND REINFORCED CONCRETE BASES 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.



DETAIL "A"

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
1 GRATE	18	18
2 GRATE	18	42

INLETS
MEDIAN 1 AND 2 GRATE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
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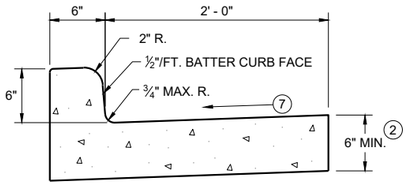
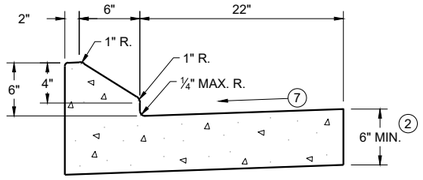
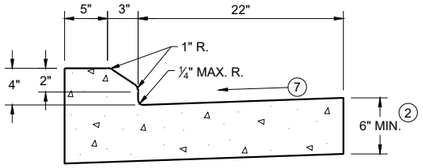
SDD 08C08-03



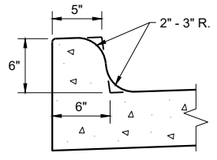
TYPES A (1) & D



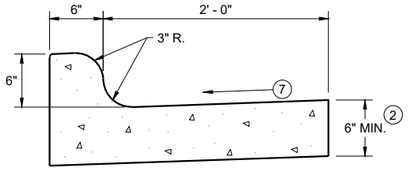
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

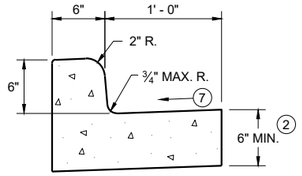


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



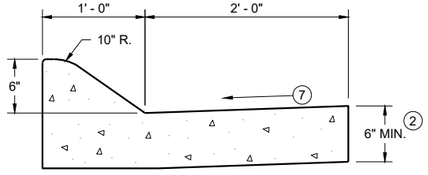
TYPES K (1) & L

CONCRETE CURB AND GUTTER 30"

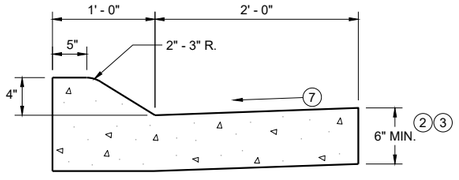


TYPES A (1) & D

CONCRETE CURB AND GUTTER 18"

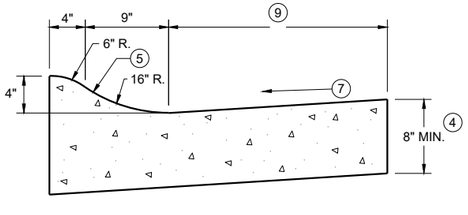


6" SLOPED CURB TYPES A (1) & D



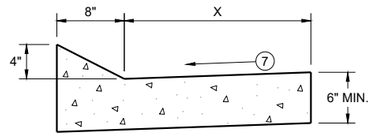
4" SLOPED CURB TYPES A (1) & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R (1) & T

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

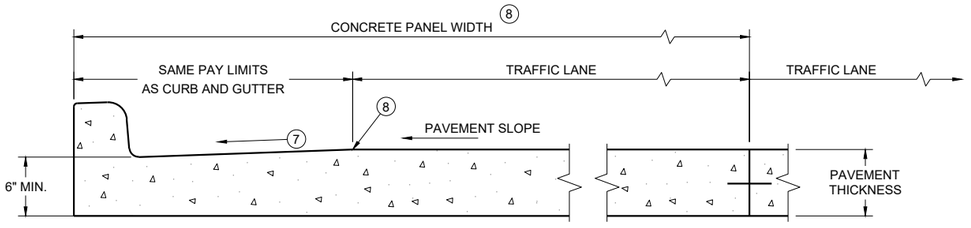


TYPES TBT & TBTT (1)

CONCRETE CURB AND GUTTER

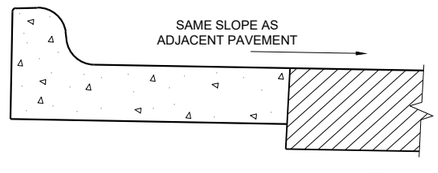
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

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.

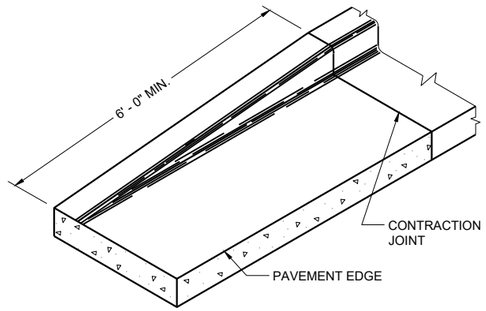
(8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

(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

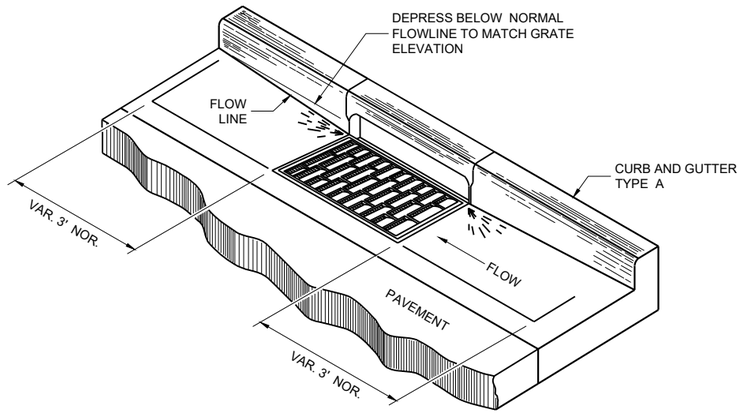
CONCRETE CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 08D01-23a



END SECTION CURB 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.

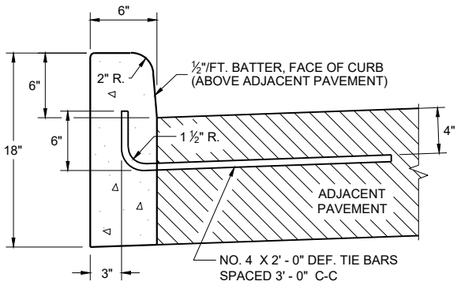
UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

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

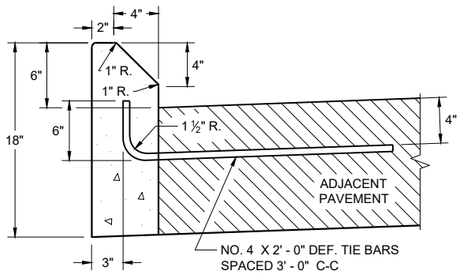
(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(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.

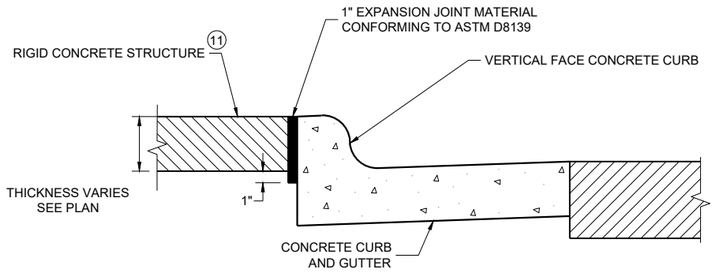


TYPES A (1) & D

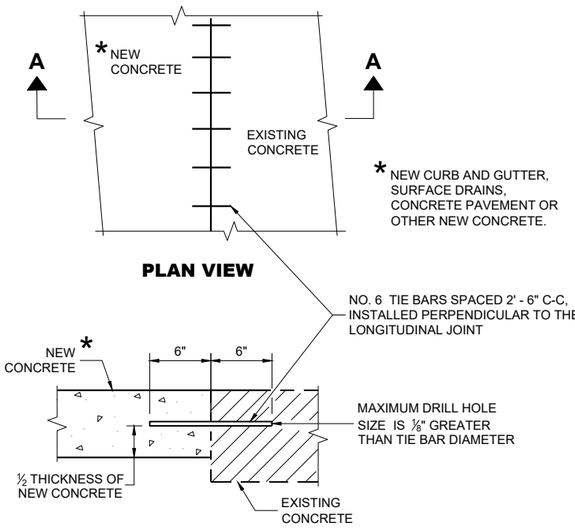


TYPES G (1) & J

CONCRETE CURB



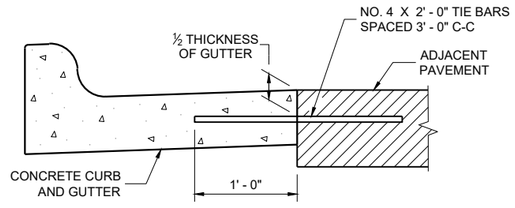
EXPANSION JOINT DETAIL FOR VERTICAL CURB ABUTTING A RIGID STRUCTURE (11)



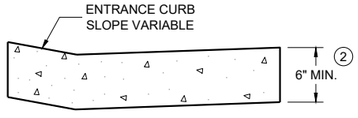
PLAN VIEW

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 DEVELOPMENT UNIT SUPERVISOR

FHWA

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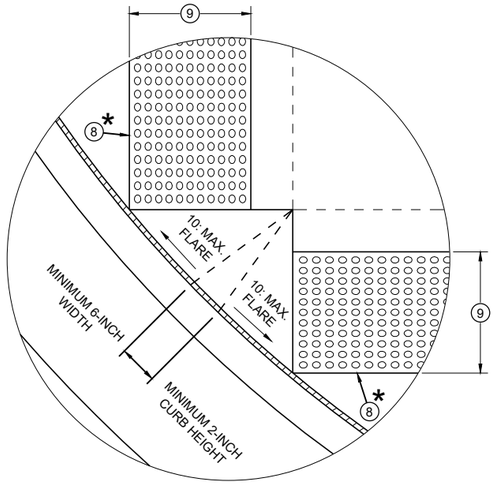
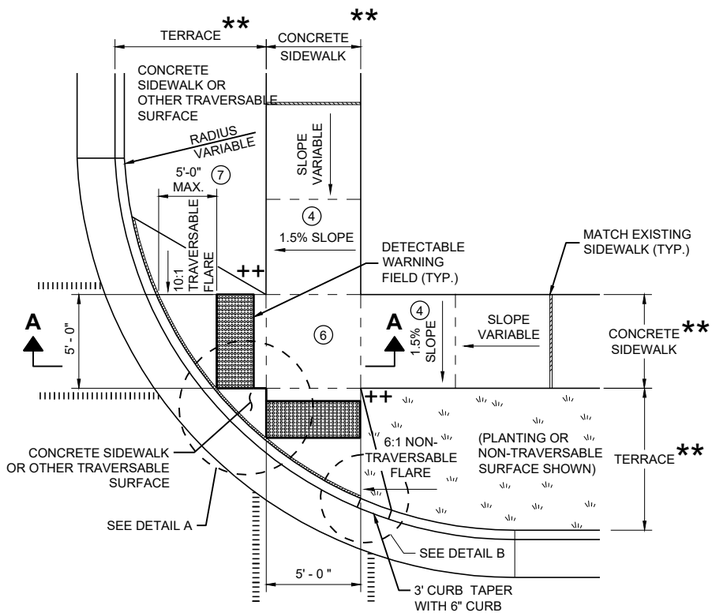
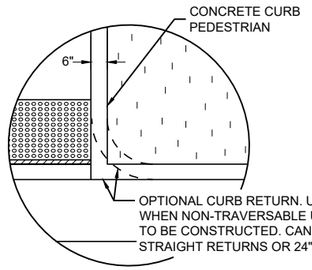
SDD 08D01-23b



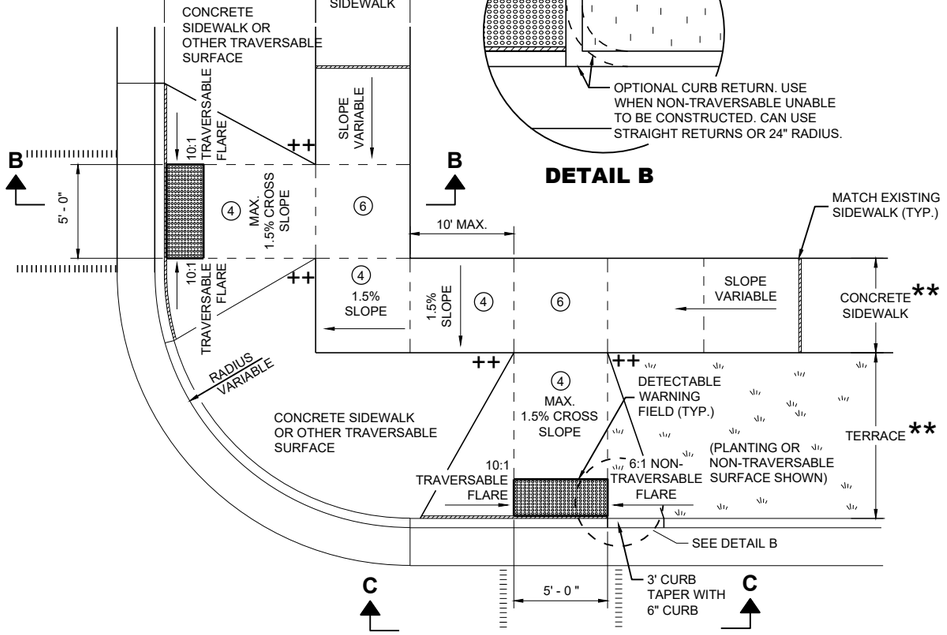
DETAIL A



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



DETAIL B



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

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.

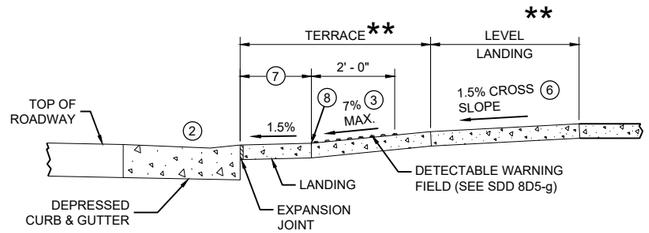
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(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.

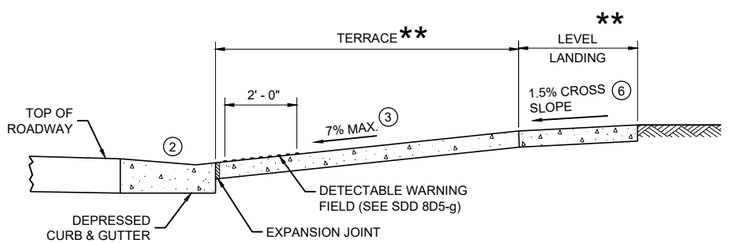


SECTION A - A FOR TYPE 2

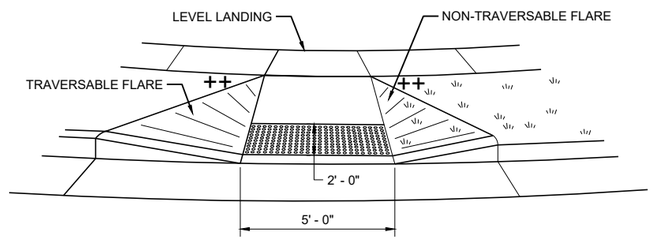
* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS

++ CONSTRUCT 6" WEDGE TO AVOID CONCRETE BREAKAGE



SECTION B - B FOR TYPE 3



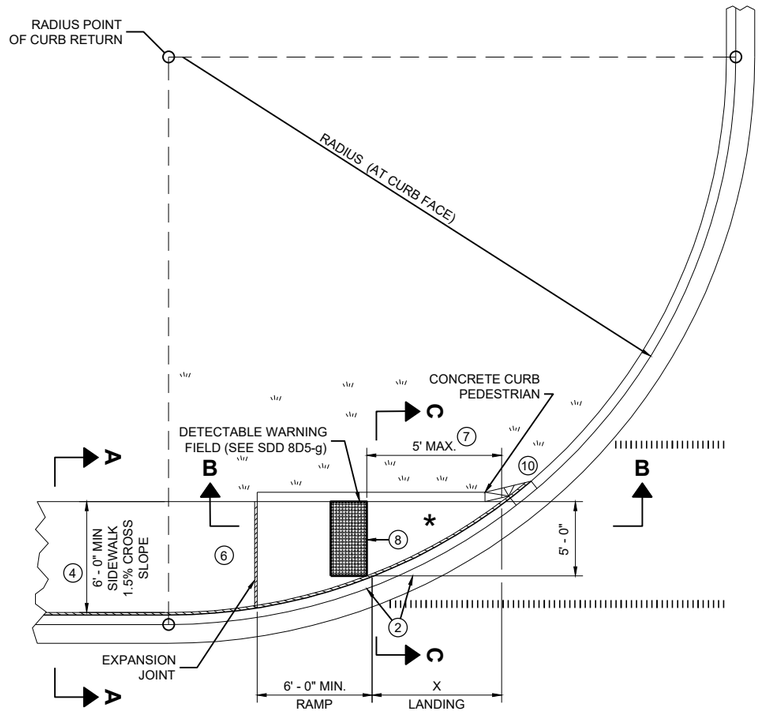
VIEW C - C FOR TYPE 3

LEGEND

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

CURB RAMPS TYPE 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

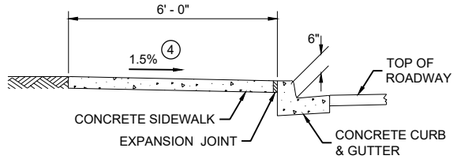


PLAN VIEW

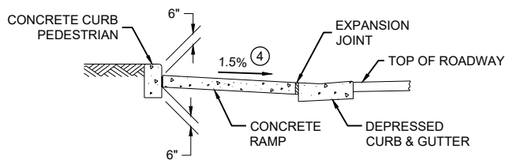
CURB RAMP TYPE 4A

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

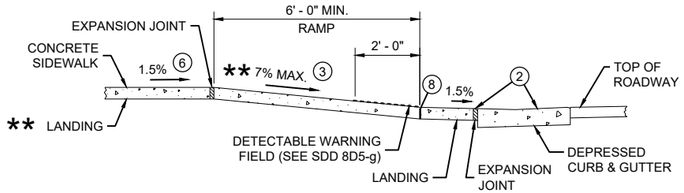
INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A - A FOR TYPE 4A

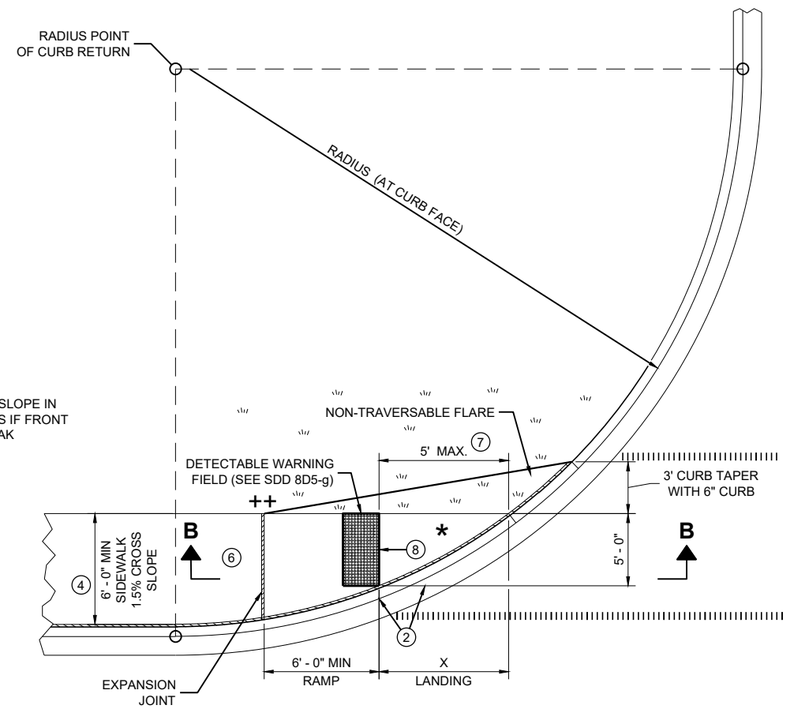


SECTION C - C FOR TYPE 4A



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

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

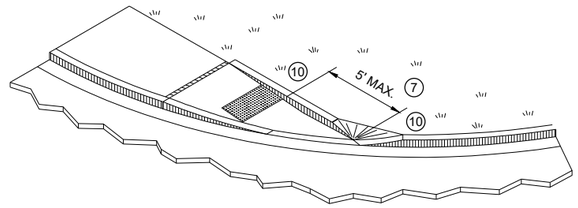


PLAN VIEW

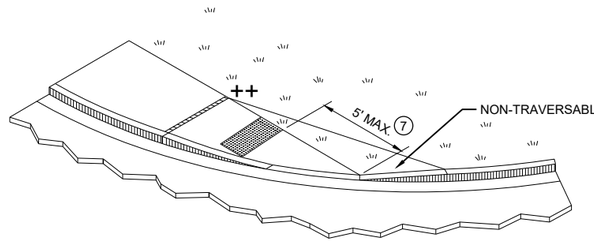
CURB RAMP TYPE 4A1

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

++ CONSTRUCT 6" WEDGE TO AVOID CONCRETE BREAKAGE



ISOMETRIC VIEW FOR TYPE 4A



ISOMETRIC VIEW FOR TYPE 4A1

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

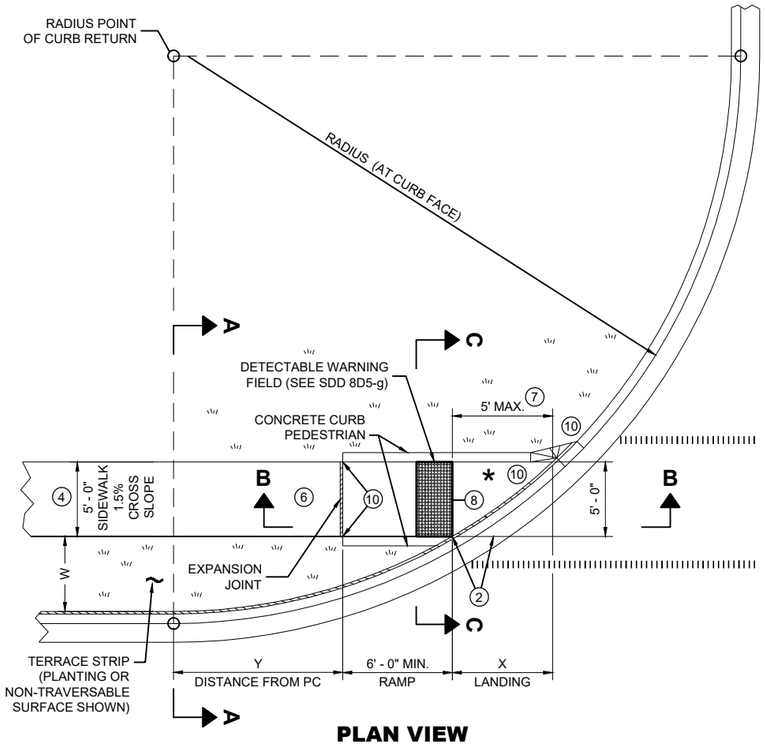
½" EXPANSION JOINT SIDEWALK

CONTRACTION JOINT SIDEWALK

PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPE 4A AND 4A1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



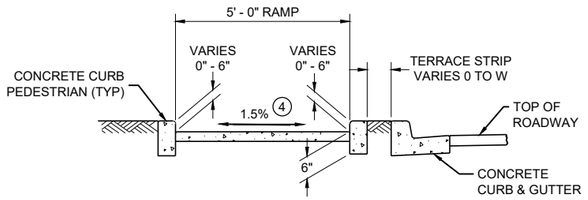
PLAN VIEW
CURB RAMP TYPE 4B

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.

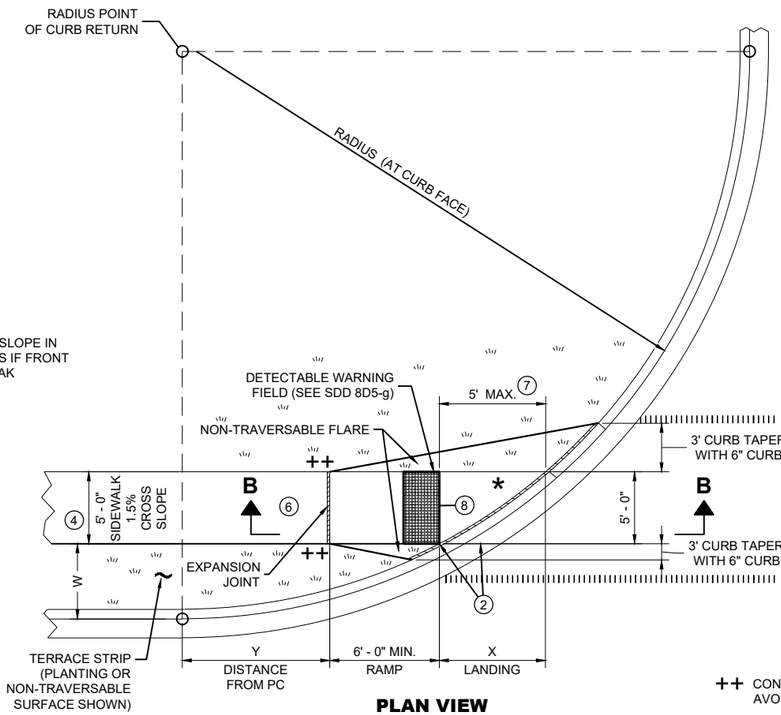
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(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.

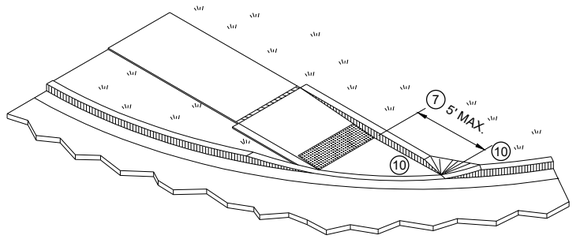
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



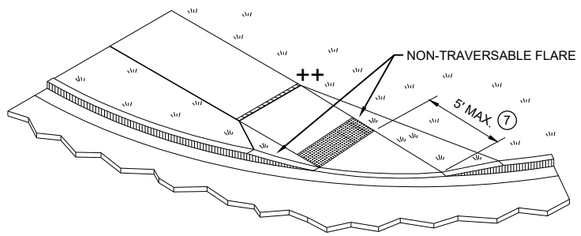
PLAN VIEW
CURB RAMP TYPE 4B1

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

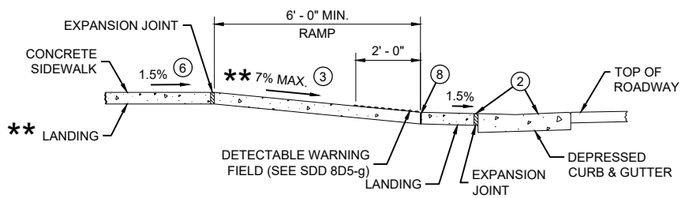
++ CONSTRUCT 6" WEDGE TO AVOID CONCRETE BREAKAGE



ISOMETRIC VIEW FOR TYPE 4B



ISOMETRIC VIEW FOR TYPE 4B1



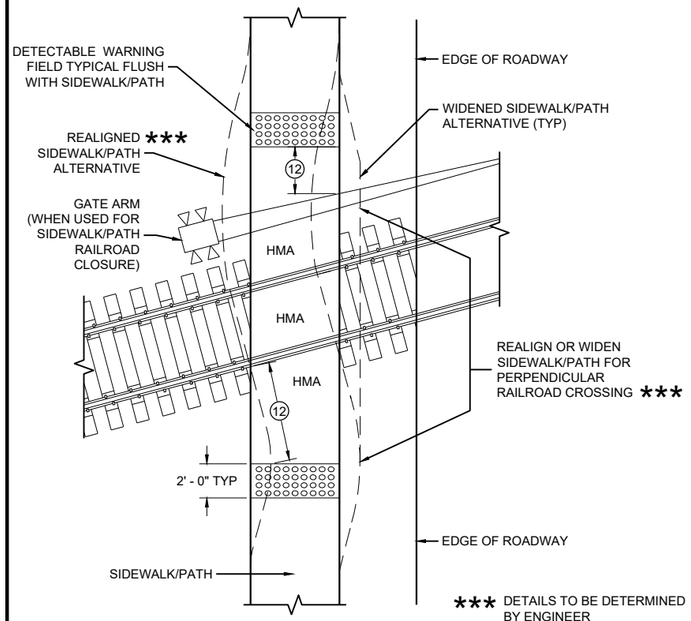
SECTION A - A FOR TYPE 4B

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

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

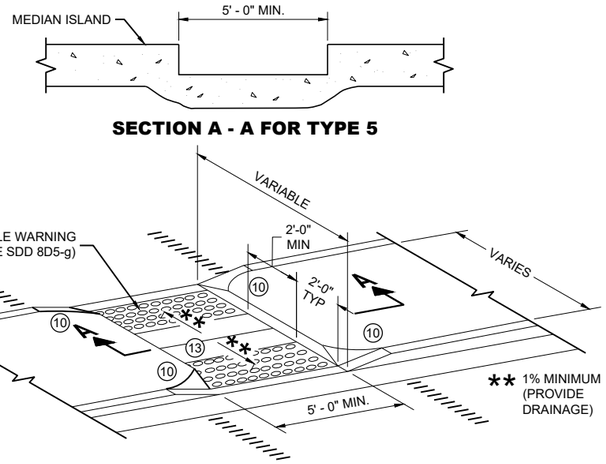
CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



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.

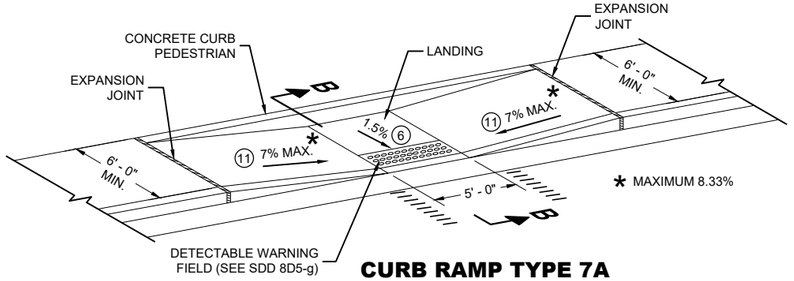
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(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.

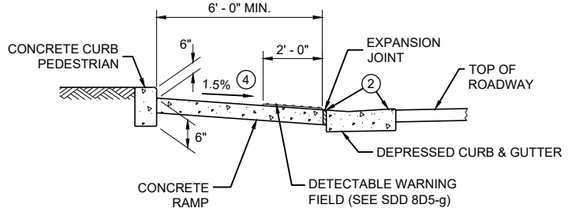
LEGEND

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

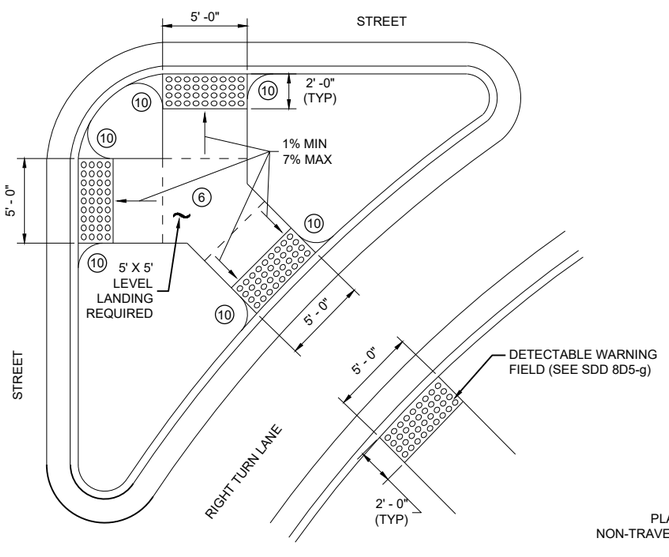


CURB RAMP TYPE 7A

FOR INTERSECTIONS AND MID BLOCK CROSSINGS



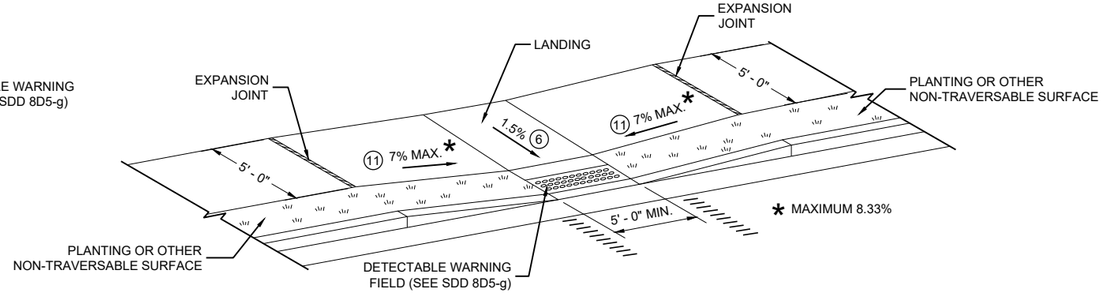
SECTION B - B FOR TYPE 7A



CURB RAMP TYPE 6

DETECTABLE WARNING AT ISLANDS

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



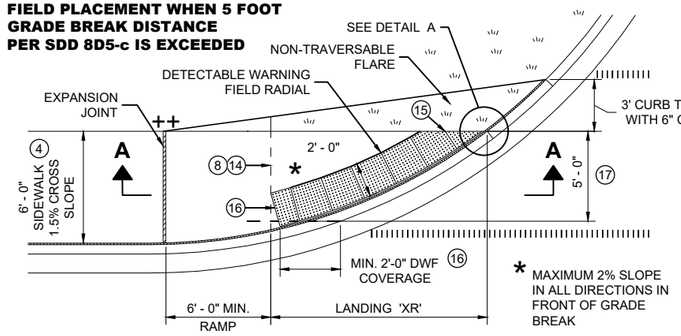
CURB RAMP TYPE 7B

FOR INTERSECTIONS AND MID BLOCK CROSSINGS

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

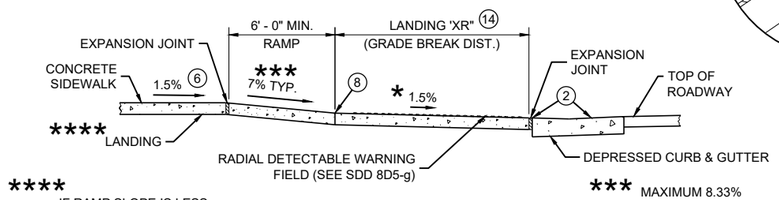
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

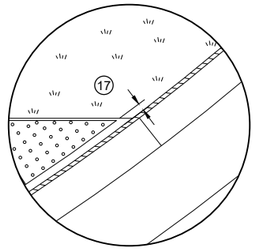


PLAN VIEW

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



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.

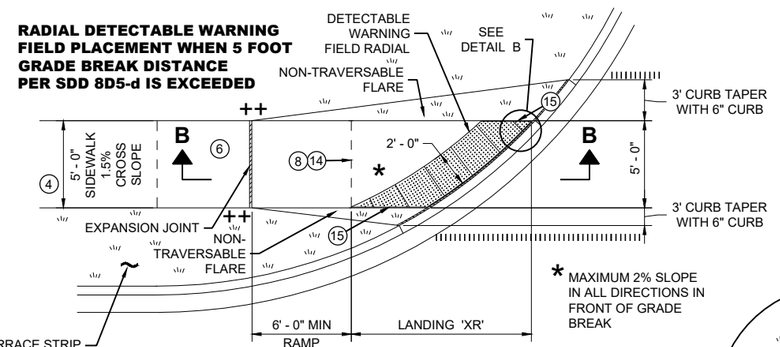
(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION "XR") REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

(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.

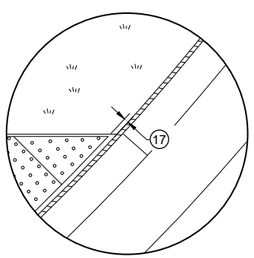
(17) A MAXIMUM 3 INCH CONCRETE BORDER WIDTH IS ALLOWABLE IN FRONT OF RADIAL DETECTABLE WARNING FIELD FOR CONSTRUCTABILITY PURPOSES. CONCRETE BORDER WIDTH MAY VARY UP TO 1 INCH.

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

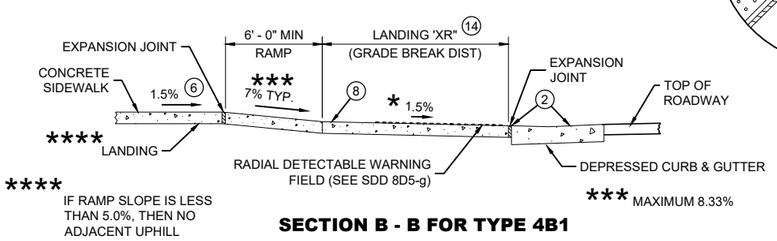


PLAN VIEW

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

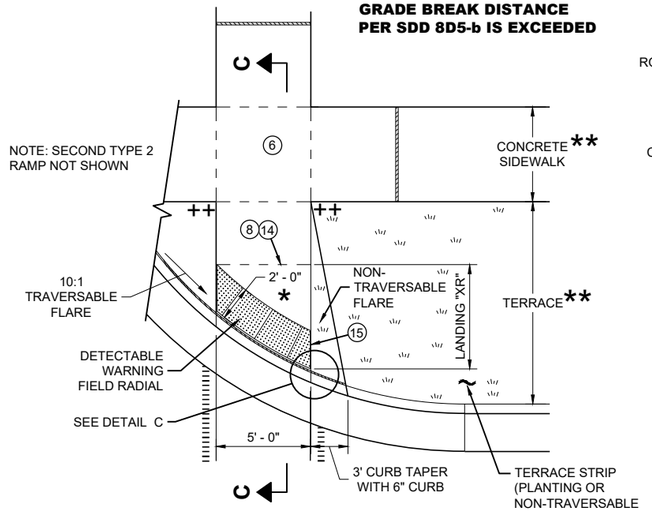


DETAIL B



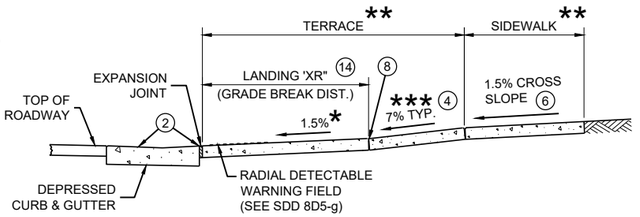
SECTION B - B FOR TYPE 4B1

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

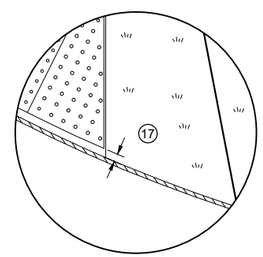


PLAN VIEW

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%

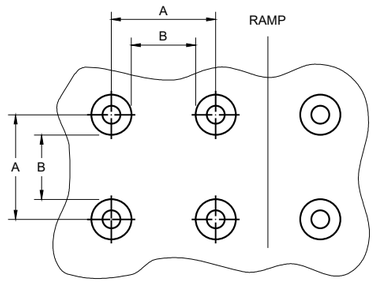
++ CONSTRUCT 6" WEDGE TO AVOID CONCRETE BREAKAGE

CURB RAMPS
RADIAL DETECTABLE WARNING

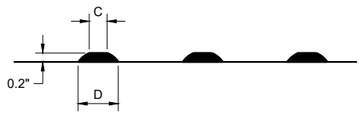
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

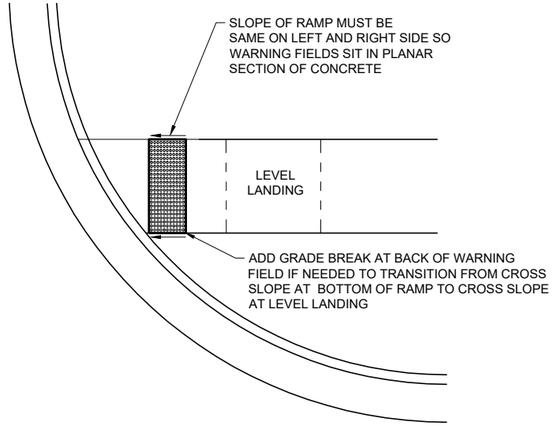
* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.



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.

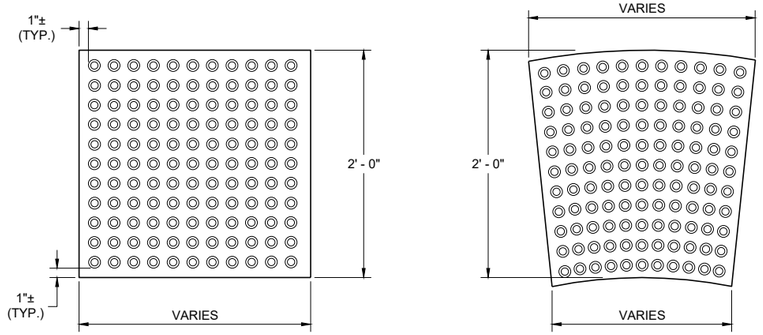
FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGE PLATES IN COMBINATION WITH SQUARE PLATES ARE ALSO ACCEPTABLE. 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.

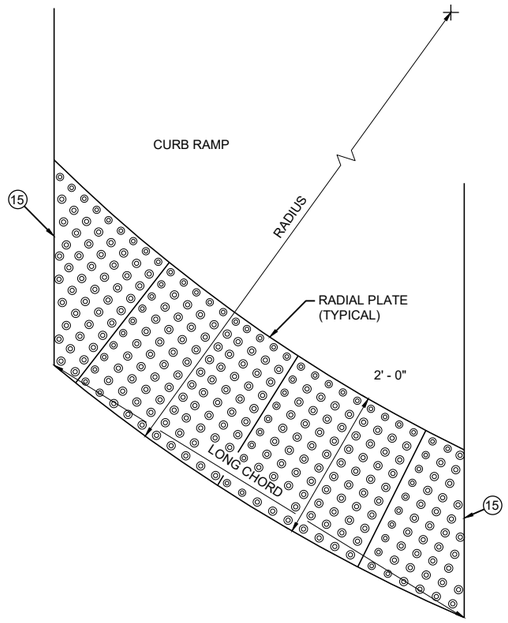
TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



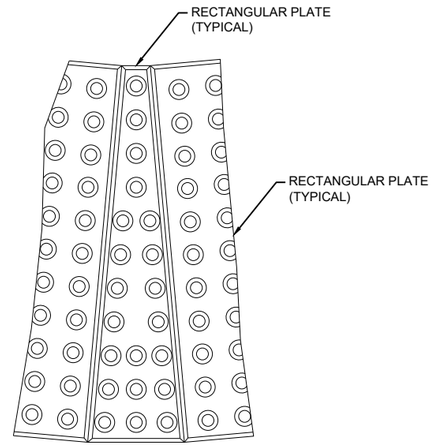
RECTANGULAR PLATES

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

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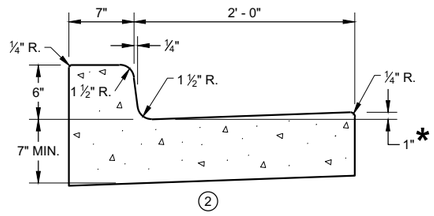
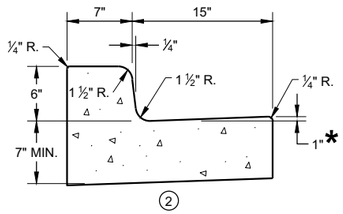
SDD 08D05-21g

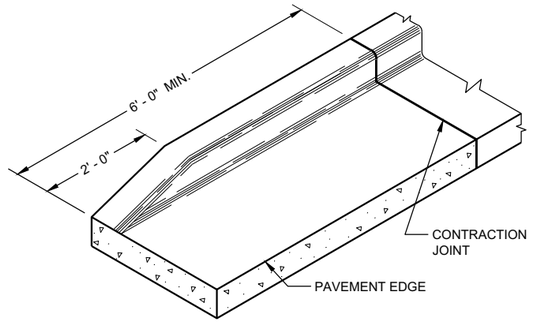


CONCRETE CURB AND GUTTER 31" ①

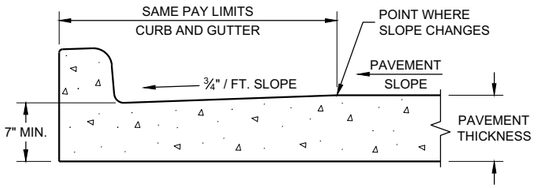
*TO BE MEASURED TO A MAXIMUM OF 3" WHERE DRAINAGE PROBLEMS EXIST.



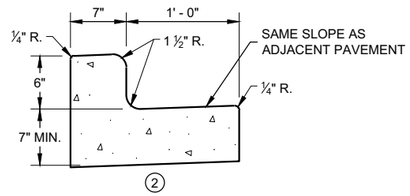
CONCRETE CURB AND GUTTER 22" ①



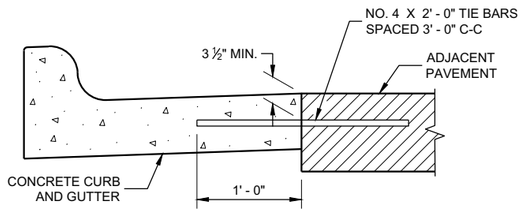
END SECTIONCURB AND GUTTER



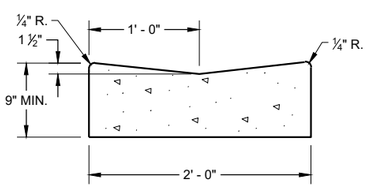
PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB AND GUTTER



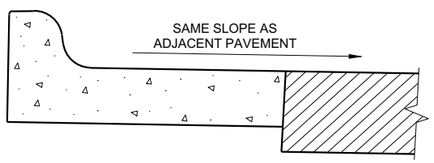
CONCRETE CURB AND GUTTER 19" ①



TYPICAL TIE BAR LOCATION ①



CONCRETE GUTTER 24" ①



HIGH SIDE SECTION ③

(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.

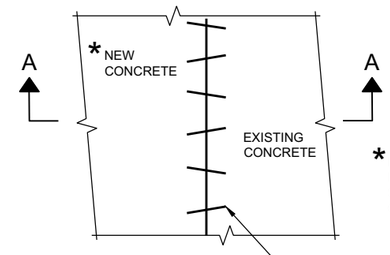
INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

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

① WHEN PLACED ADJACENT TO NEW CONCRETE, TIE BARS ARE REQUITED FOR CURB AND GUTTER 31", 22", 19" AND CONCRETE GUTTER 24".

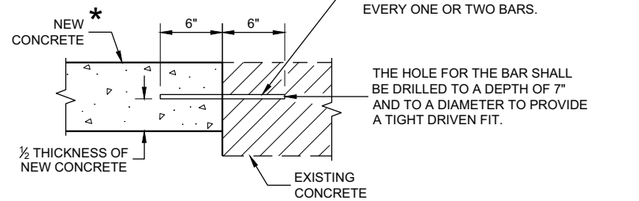
② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE COURSE PROVIDED A 7" MINIMUM GUTTER THICKNESS IS MAINTAINED.

③ WHEN HIGH SIDE CURB SECTION IS REQUIRED, THE LOCATION(S) WILL BE NOTED ON THE PLANS



*EXISTING AND NEW CONCRETE MAY BE CURB AND GUTTER, SURFACE DRAINS, PAVEMENT OR OTHER CONCRETE STRUCTURE.

PLAN VIEW



SECTION A - A

PAVEMENT TIES

CONCRETE GUTTER, CURB AND GUTTER AND PAVEMENT TIES

(For Optional use in Milwaukee Co. Only)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

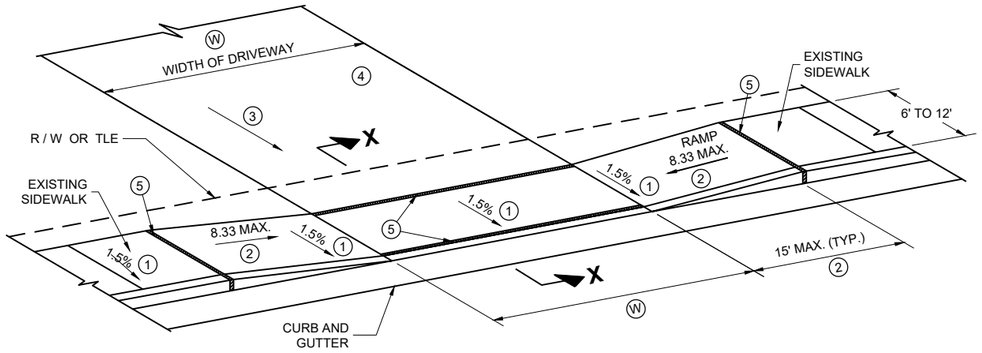
APPROVED
February 2020
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

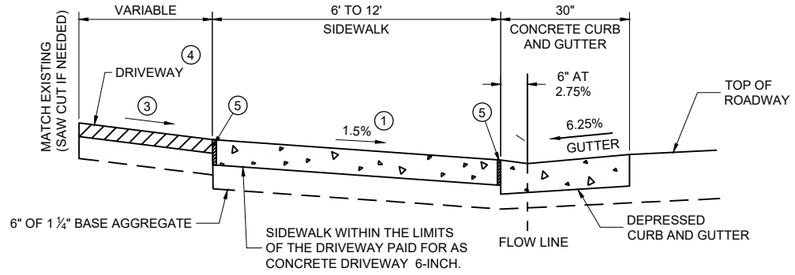
FHWA

6

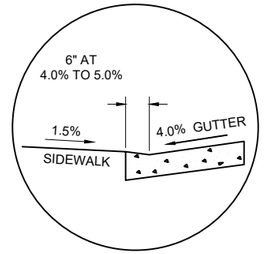
SDD 08D16 - 11



TYPE X
SIDEWALK ABUTS CURB AND GUTTER
TERRACE VARIES 0 TO 3 FEET



SECTION X - X



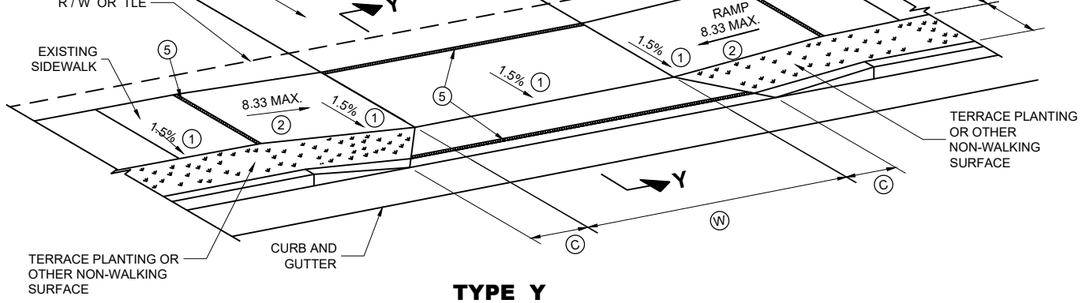
SECTION X - X
4% GUTTER SLOPE

Ⓦ: 12' MIN. - 24' MAX. RESIDENTIAL AND NON-COMMERCIAL (PE & FE)

16' MIN. - 35' MAX. COMMERCIAL (CE)

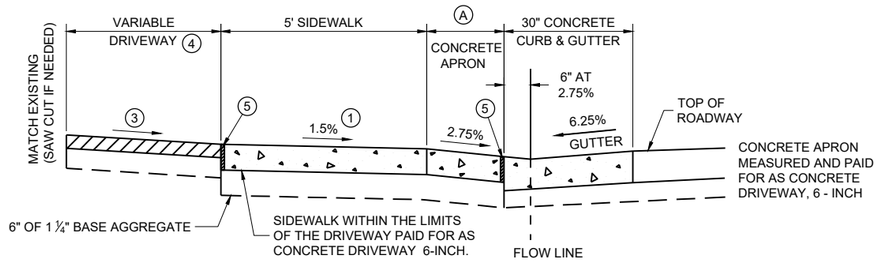
TABLE Y

Ⓐ FEET	Ⓒ FEET
3.5'	2.0'
4.5'	3.0'
5.5'	3.5'

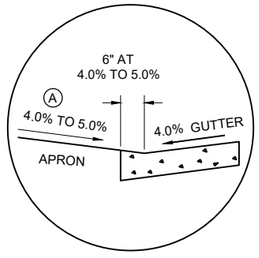


TYPE Y
SIDEWALK WITH NARROWER TERRACE
TERRACE VARIES 4 TO 6 FEET

Ⓐ: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

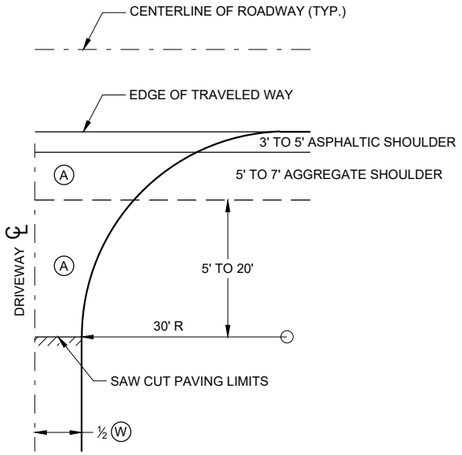
APPROVED
July 2023 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

6
SDD 08D18-04

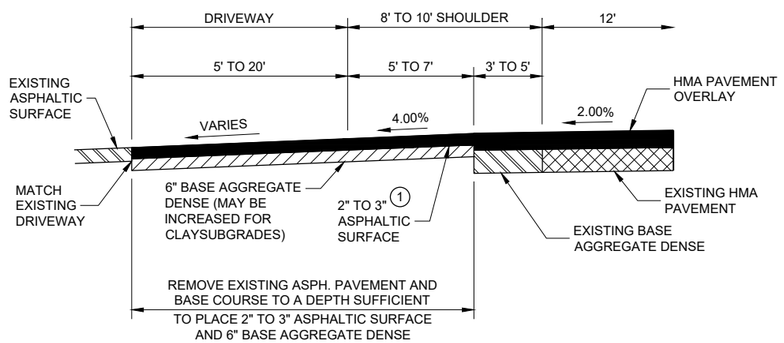
GENERAL NOTES

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



PLAN VIEW

HALF SECTION



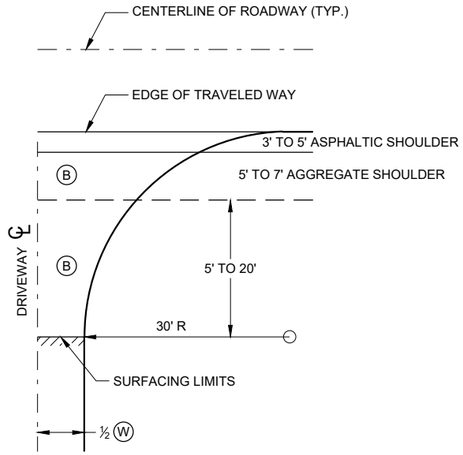
PROFILE VIEW

RURAL ENTRANCE
WITH ASPHALTIC SURFACE
RESURFACING PROJECTS

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

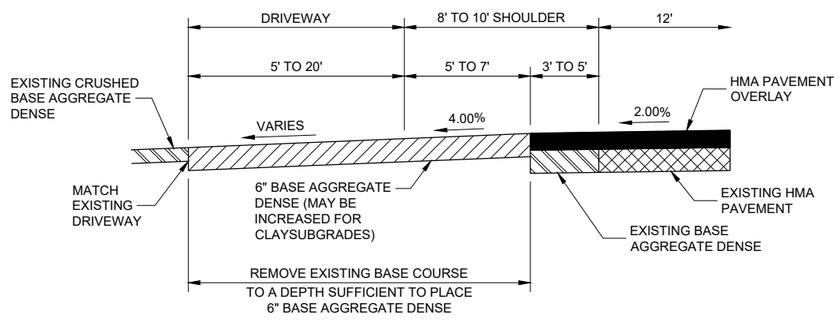
(B) : PAID FOR AS BASE AGGREGATE DENSE 1 ¼" (TON)

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



PLAN VIEW

HALF SECTION



PROFILE VIEW

RURAL ENTRANCE
WITH AGGREGATE SURFACE
6" BASE AGGREGATE DENSE
RESURFACING PROJECTS

DRIVEWAYS WITHOUT CURB AND GUTTER RESURFACING PROJECTS RURAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December 2016
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA

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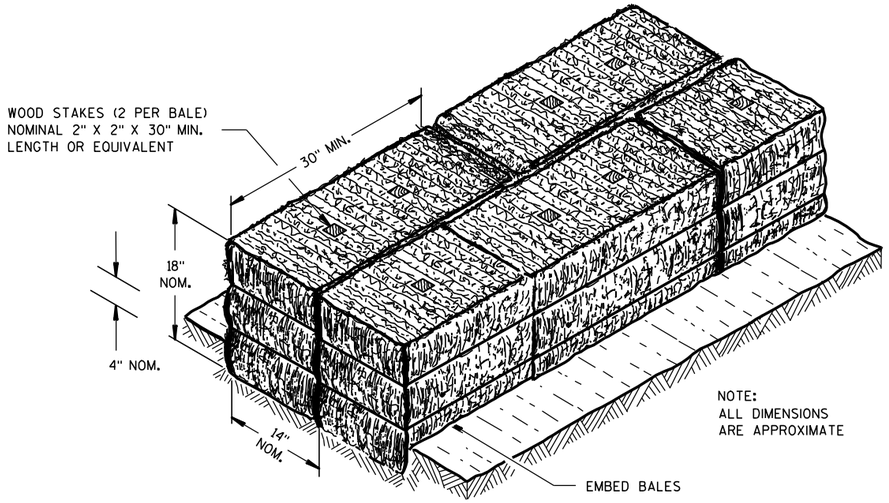
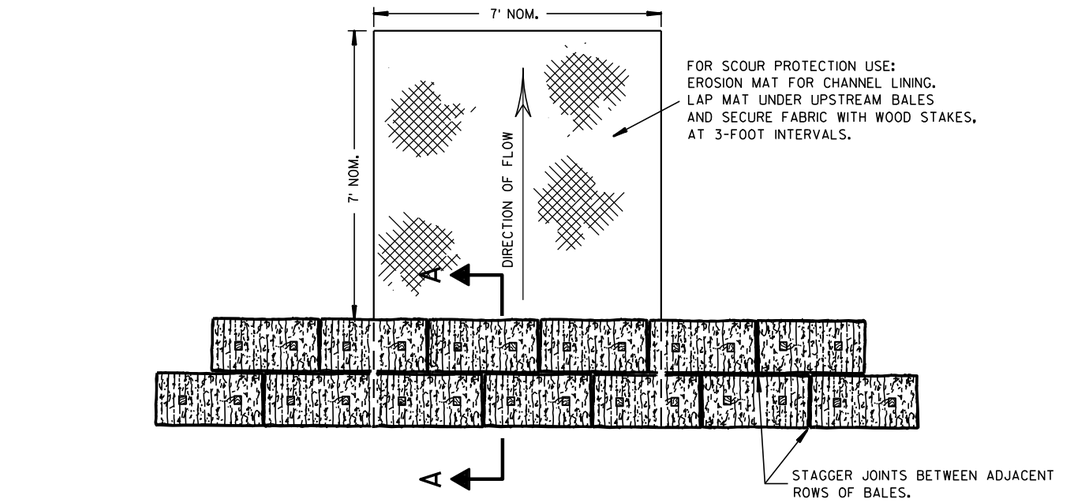
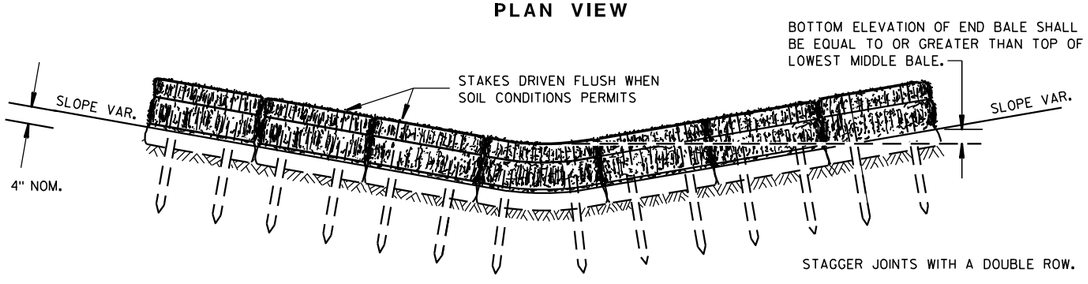
SDD 08D22 - 01



SECTION A-A



PLAN VIEW



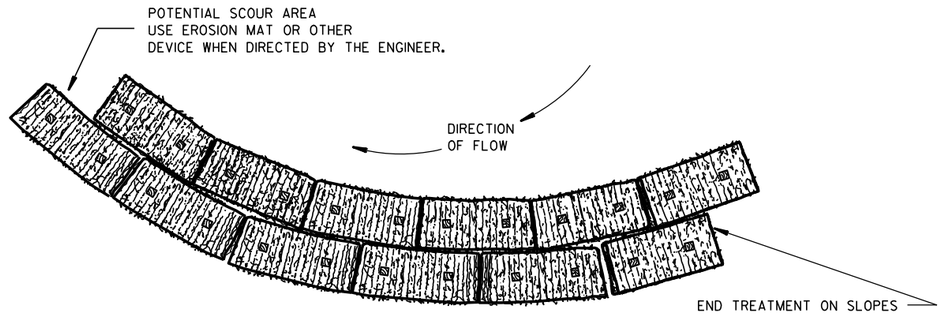
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

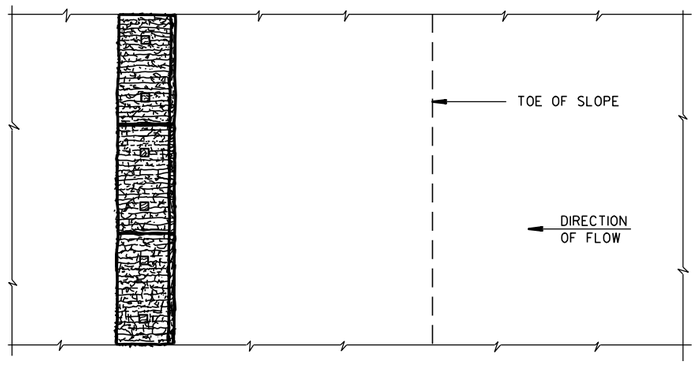
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

① TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

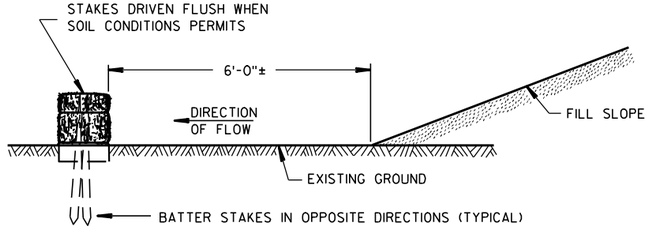


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

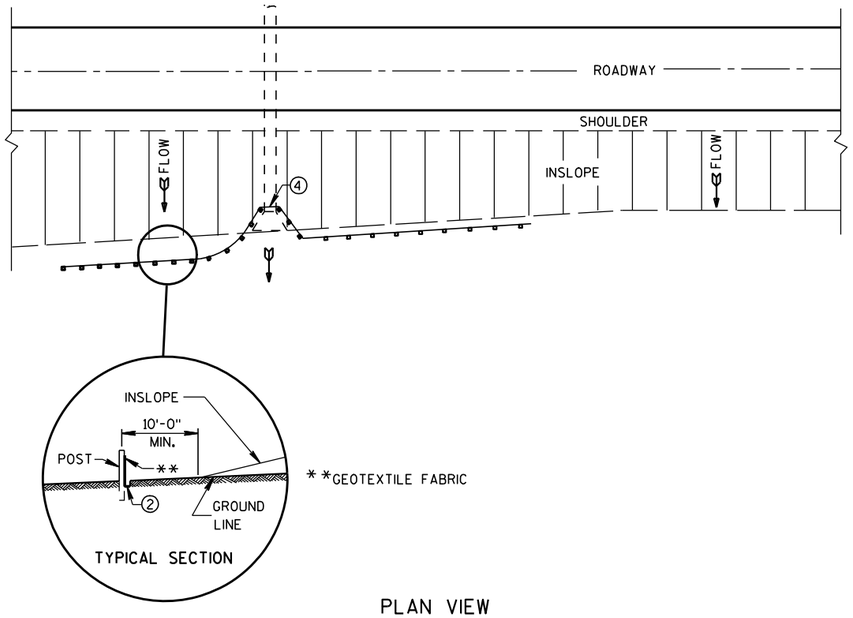
EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

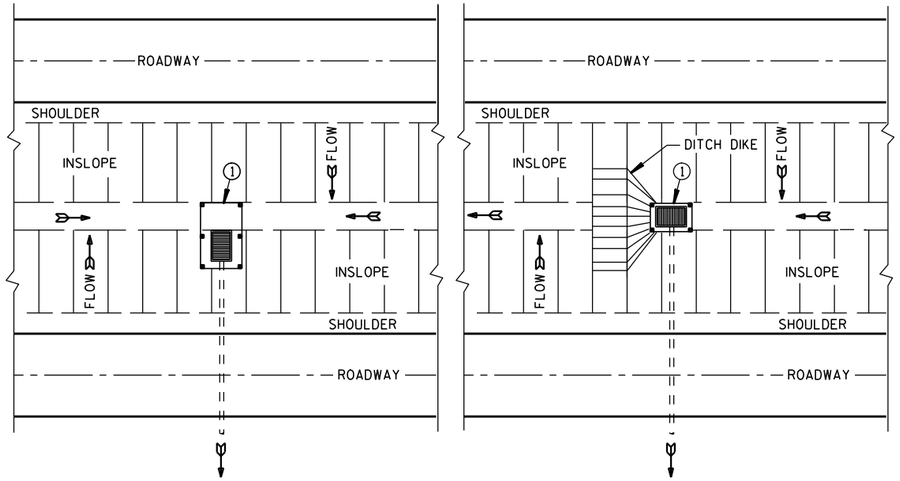
APPROVED
6/04/02 — DATE
/S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



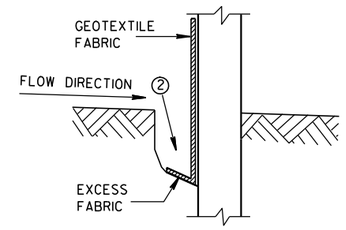
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

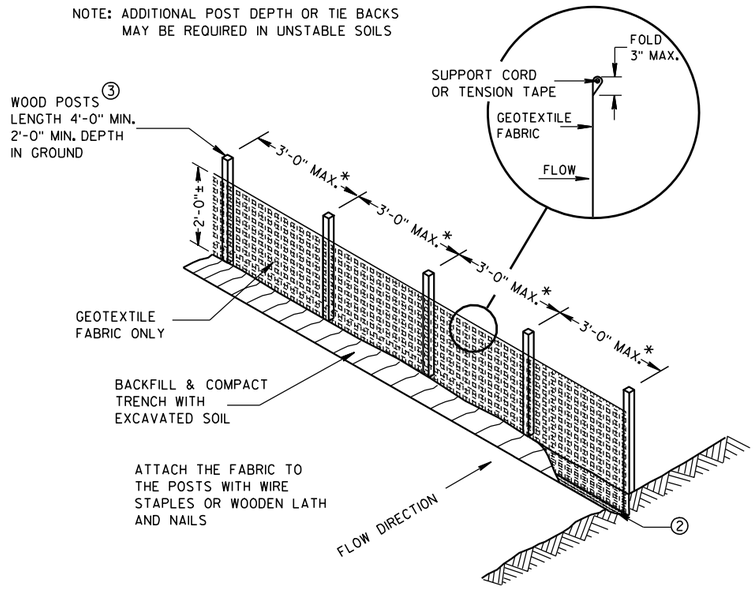
GENERAL NOTES

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

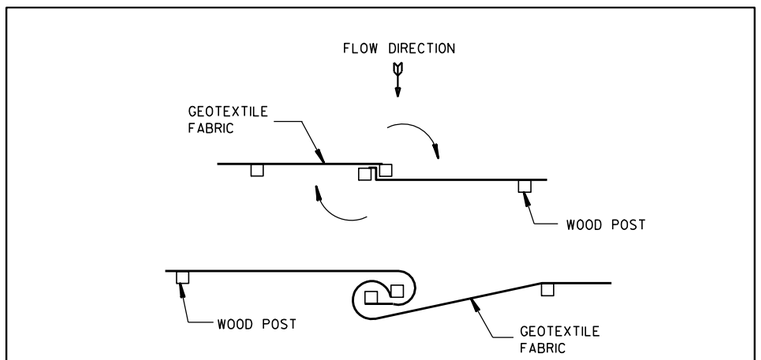
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



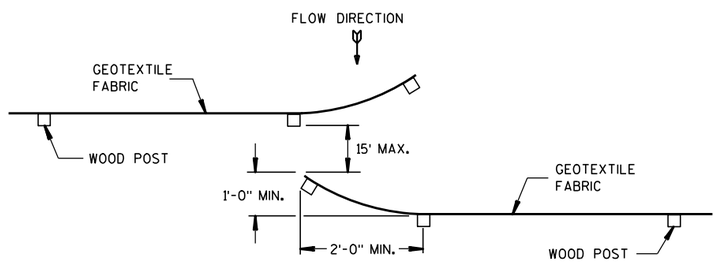
TRENCH DETAIL



SILT FENCE

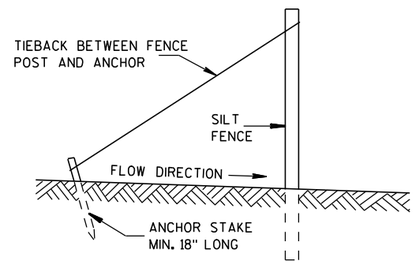


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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S.D.D. 8 E 9-6

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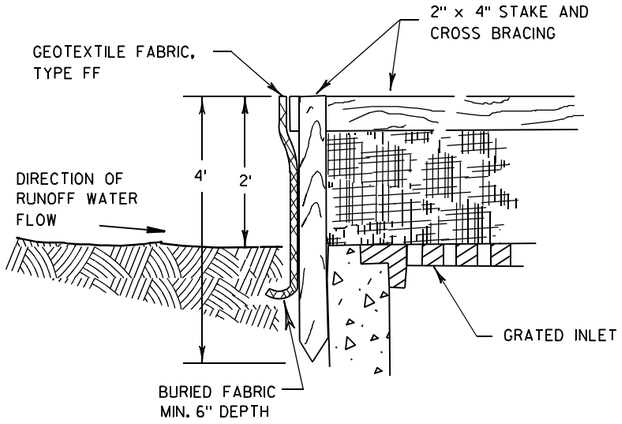
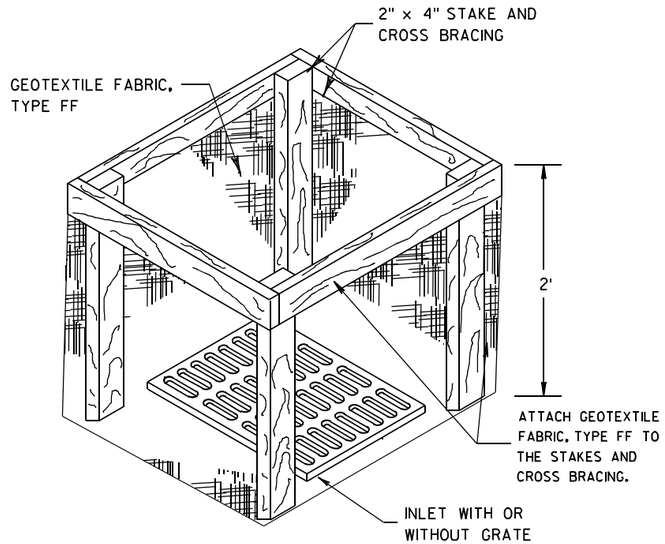
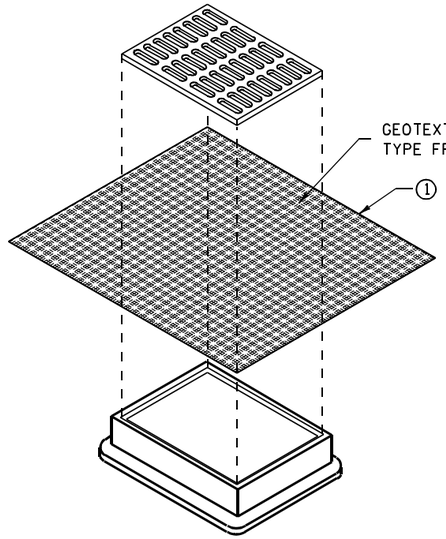
S.D.D. 8 E 9-6



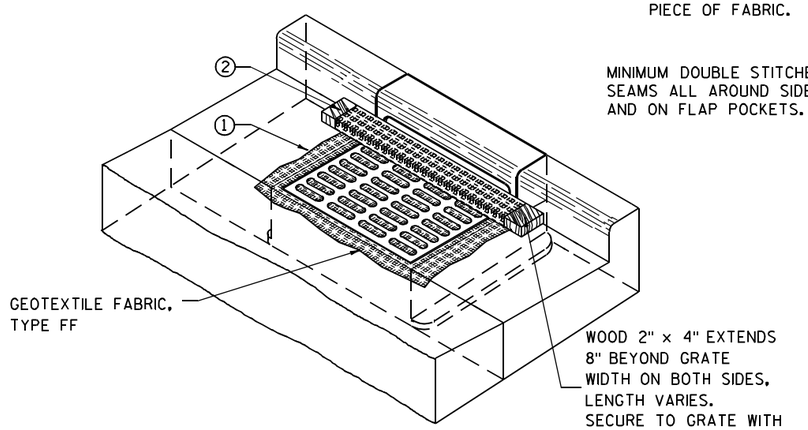


INLET PROTECTION, TYPE A

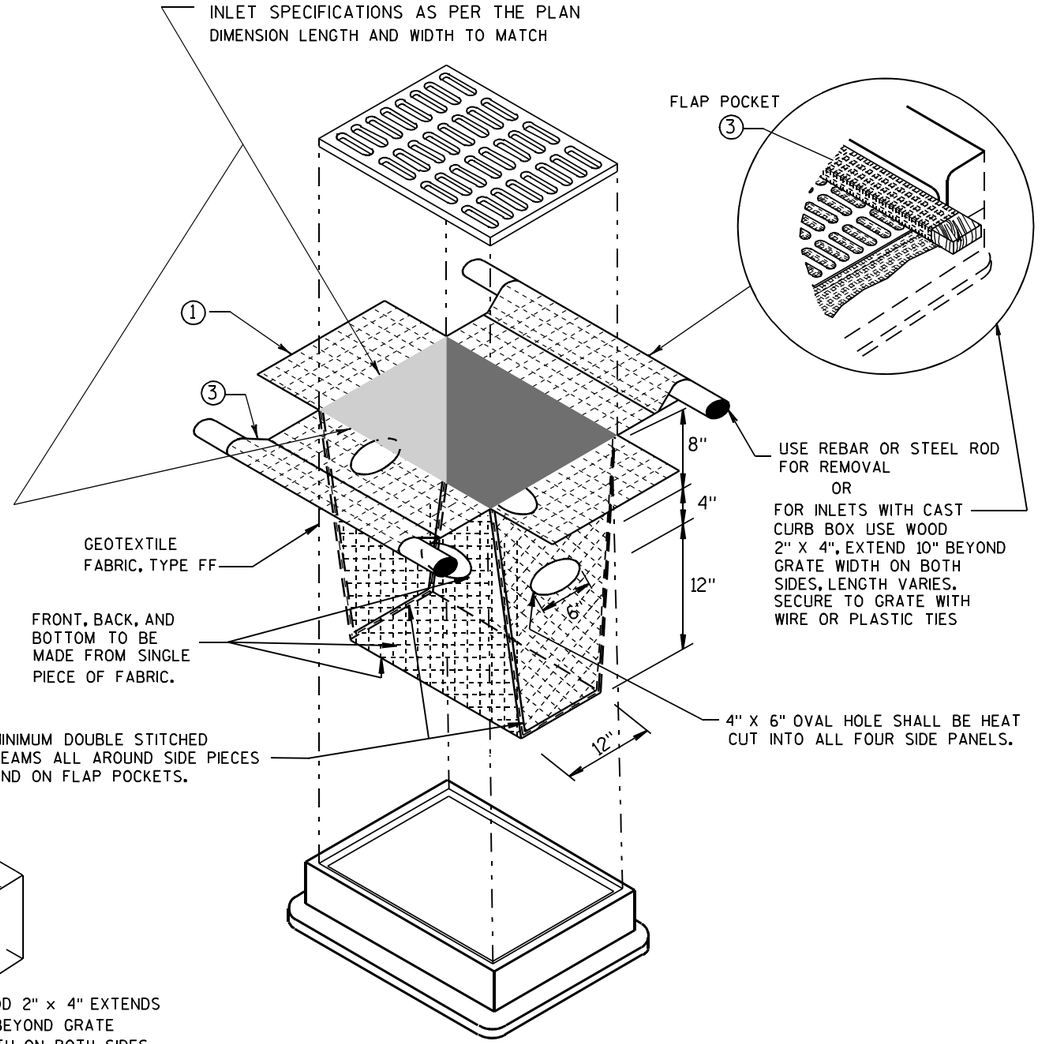


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 E 10-2

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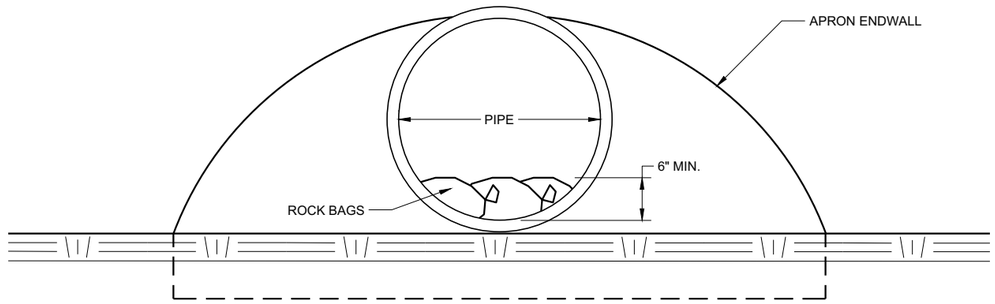
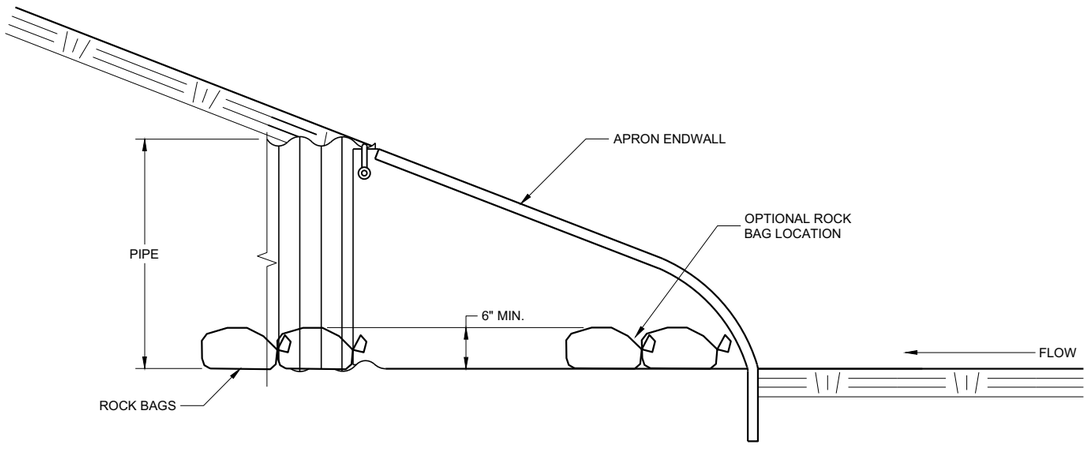
S.D.D. 8 E 10-2



END VIEW



SIDE VIEW

CULVERT PIPE CHECK

(INSTALL ON INLET END ONLY)

CULVERT PIPE CHECK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE

/S/ Daniel Schave
EROSION CONTROL ENGI

FHWA

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SDD 08E15 - 01

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SDD 08E15 - 01

METAL APRON ENDWALLS

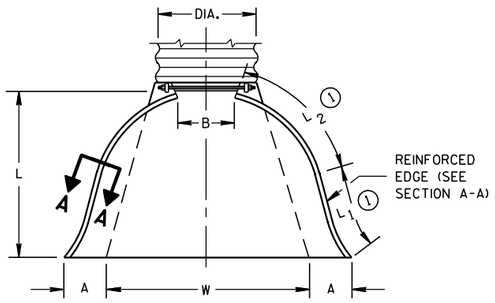
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

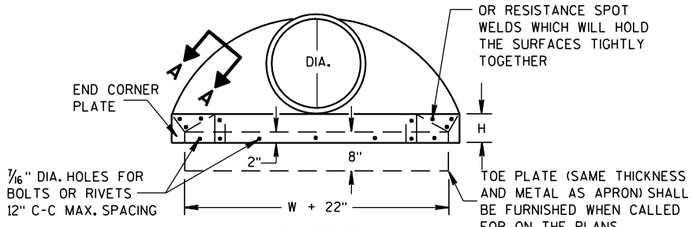
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

*MINIMUM
**MAXIMUM



PLAN VIEW



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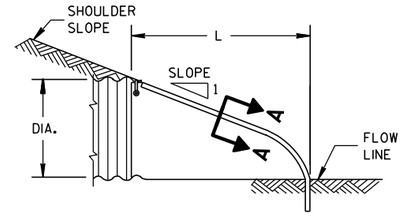
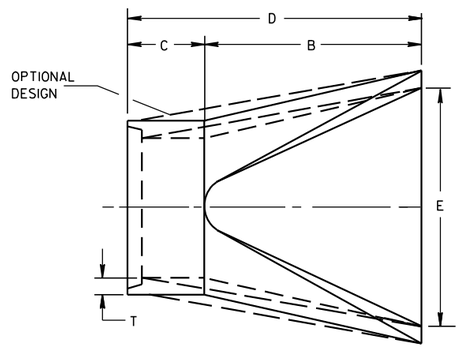
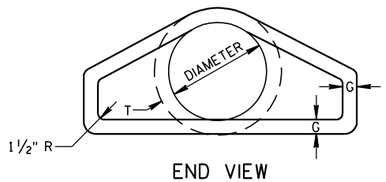


SIDE ELEVATION

METAL ENDWALLS



PLAN



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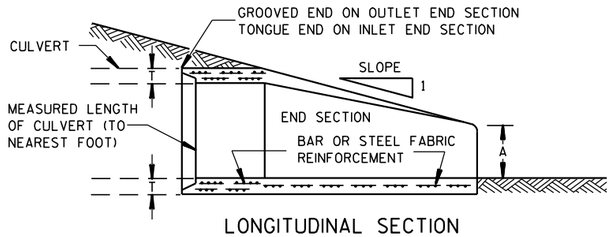
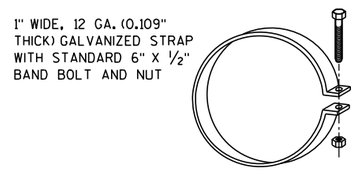


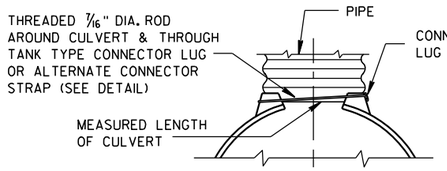
LONGITUDINAL SECTION

CONCRETE ENDWALLS

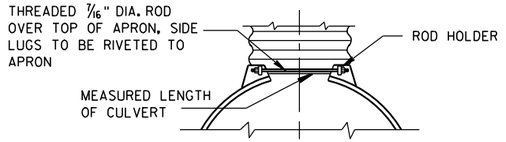


ALTERNATE FOR TYPE 1 CONNECTION

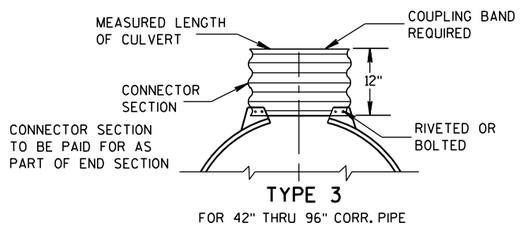
END SECTION CONNECTOR STRAP



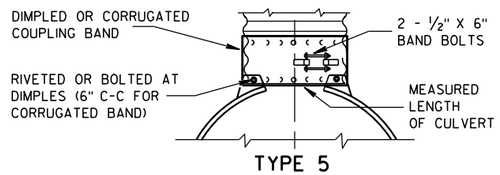
TYPE 1
FOR 12" THRU 24" CORR. PIPE



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

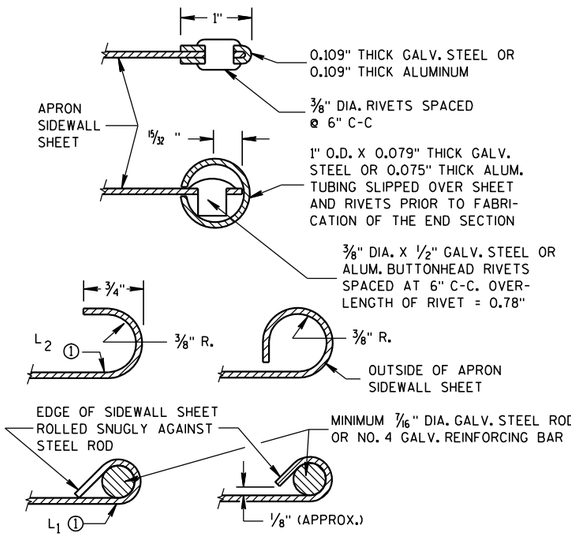
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

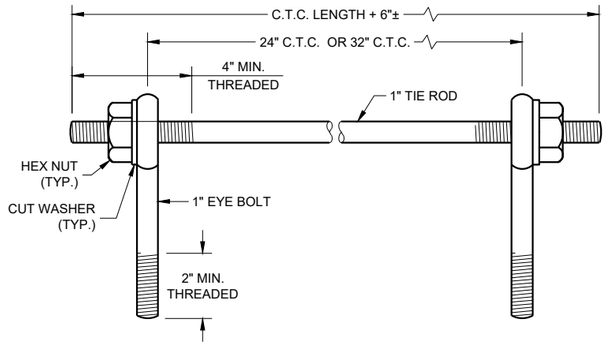
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

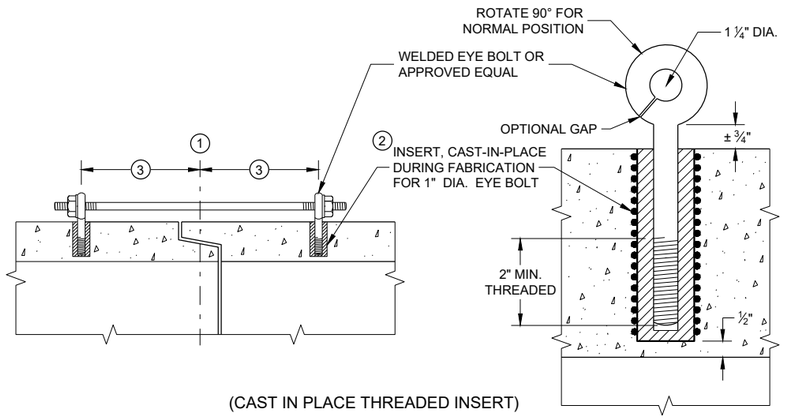
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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.

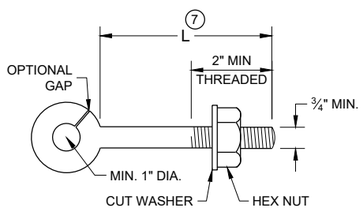
(3) HOLES SHALL BE CAST-IN-PLACE OR DRILLED PER THE APPLICABLE DETAIL, AND EQUAL DISTANCE FROM THE CENTERLINE OF THE JOINT.

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

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

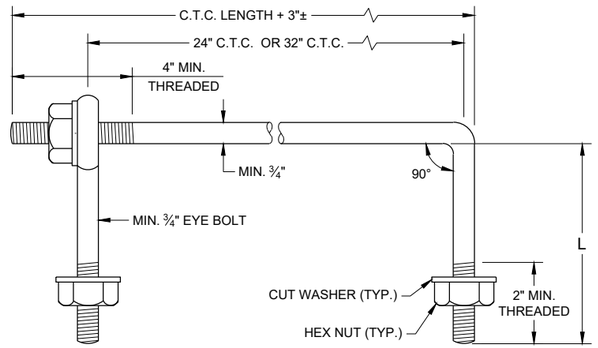
(6) LENGTH ADEQUATE TO EXTEND TO WITHIN ½ INCH OF THE INNER SURFACE OF THE PIPE.

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

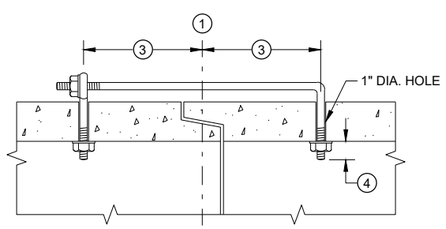


EYE BOLT (7)

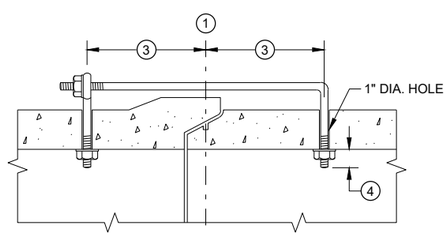
NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" OR 38" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD



(TONGUE AND GROOVE PIPE)



(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

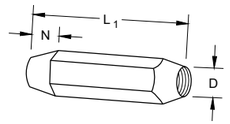
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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



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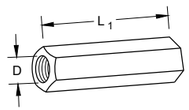
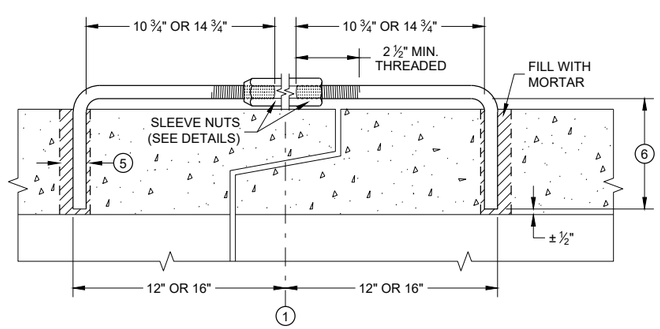


PLAIN

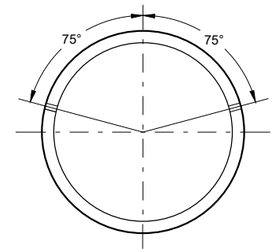
RIGHT AND LEFT THREADS

SLEEVE NUTS



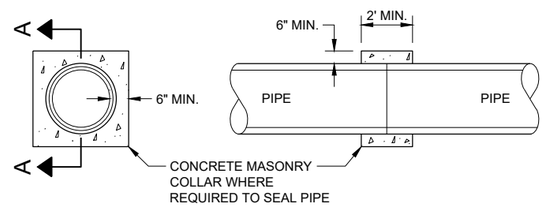
LONGITUDINAL SECTION

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

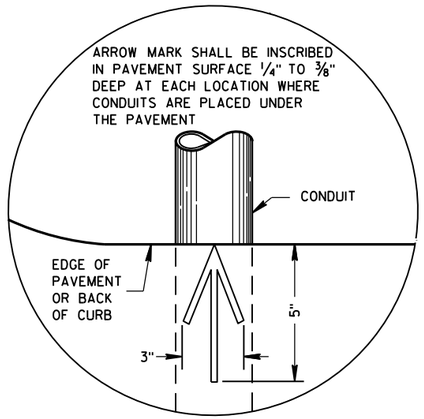
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

FHWA

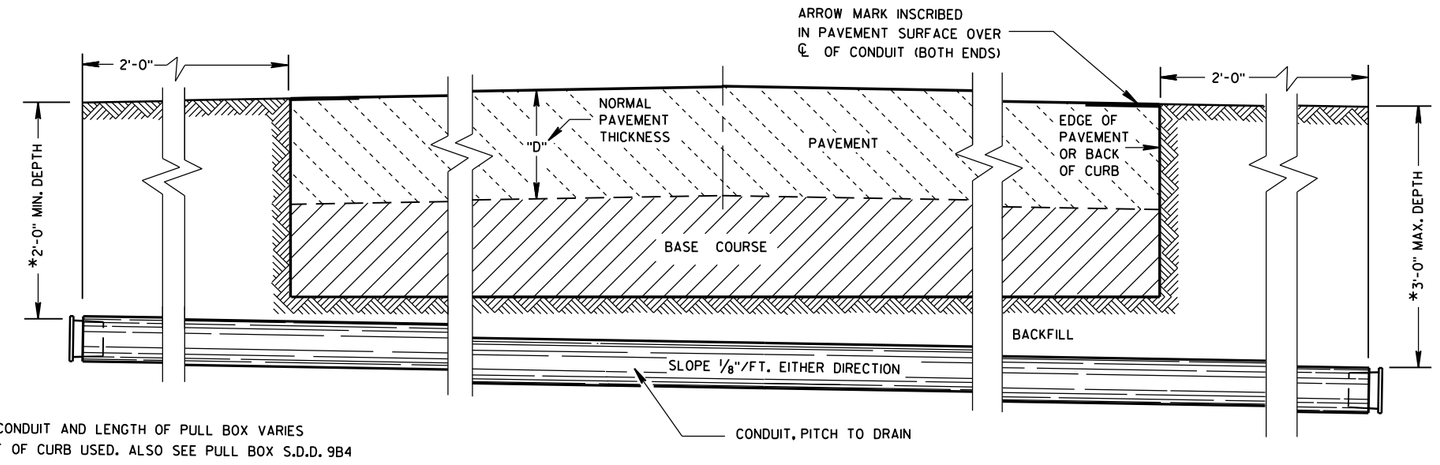
SDD 08F04 - 08

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.

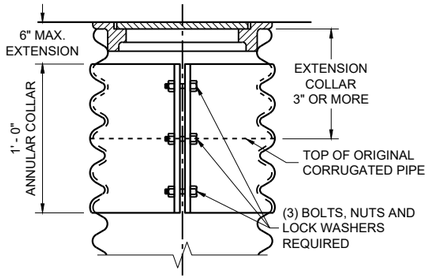
CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

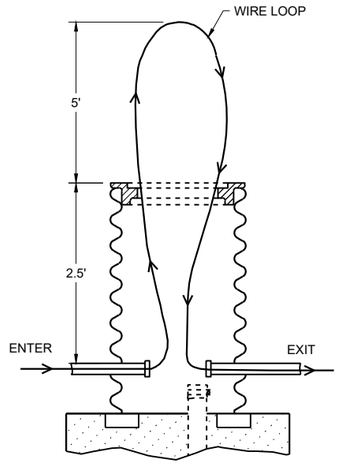
APPROVED
March, 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

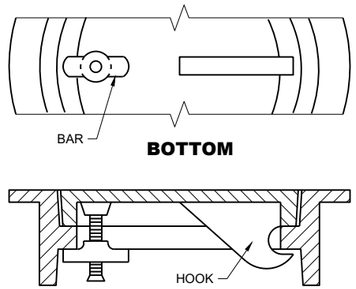
S.D.D. 9 B 2-10



CORRUGATED PIPE EXTENDER



MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX



BOTTOM

SECTION

ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE

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.

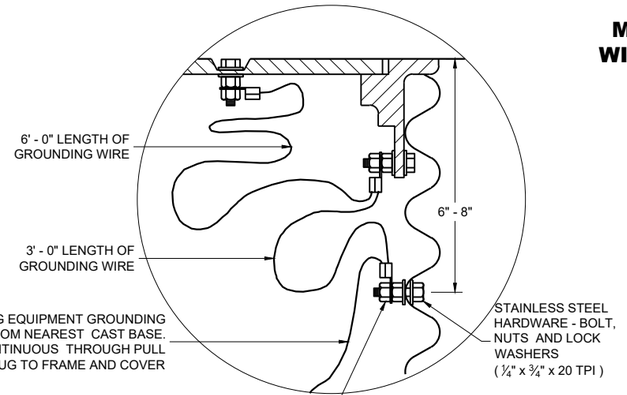
ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN ¼".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

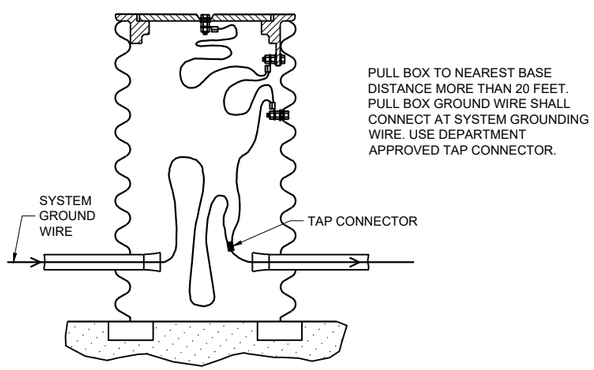
GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

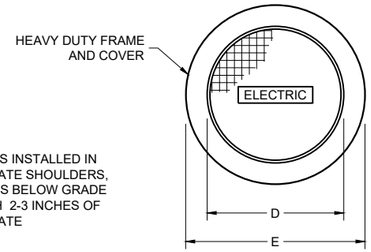
WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.



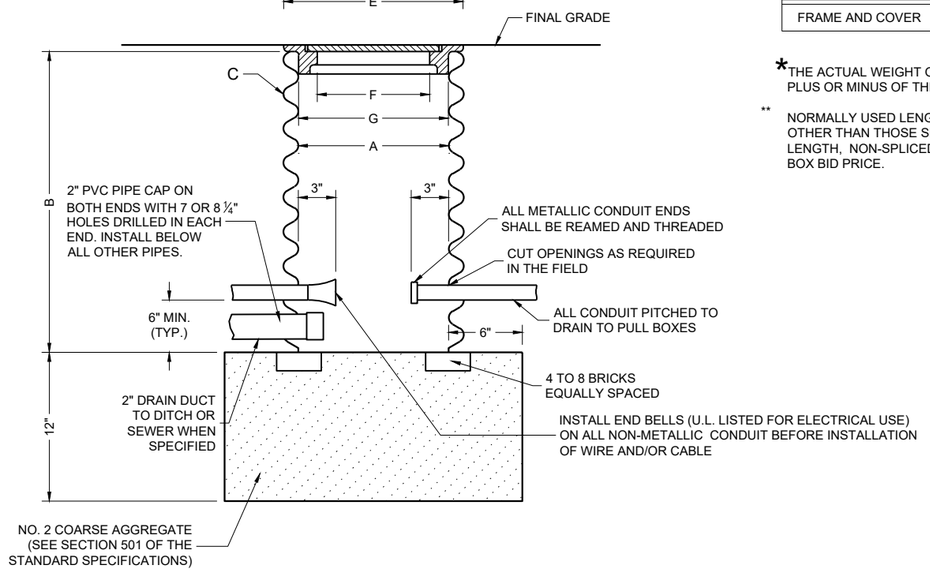
EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



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



PULL BOX

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
November 2024
DATE

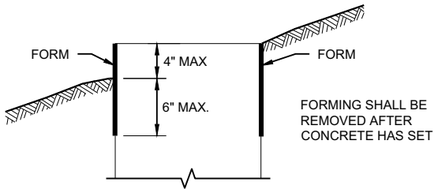
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGINEER

FHWA

6

SDD 09B04-13

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.

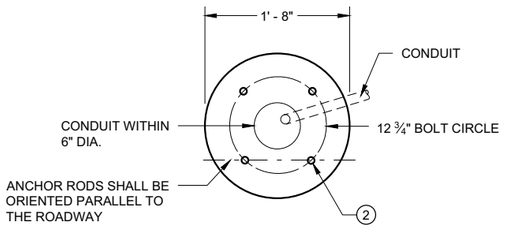
WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

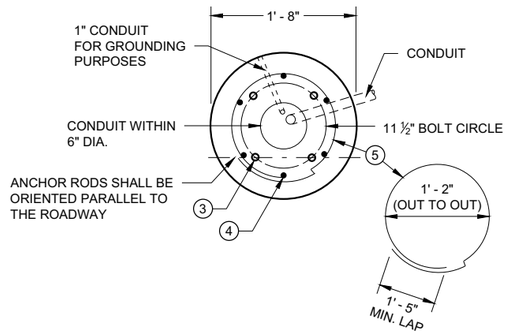
WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

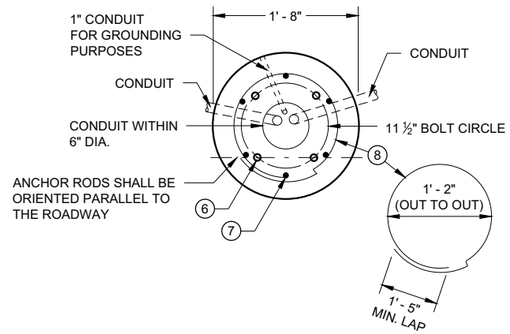
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

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

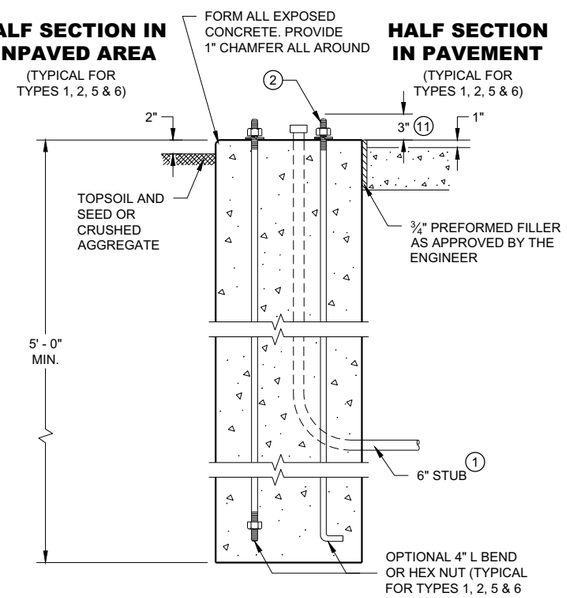
(10) ⅝" DIA. X 8' -0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED

(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.

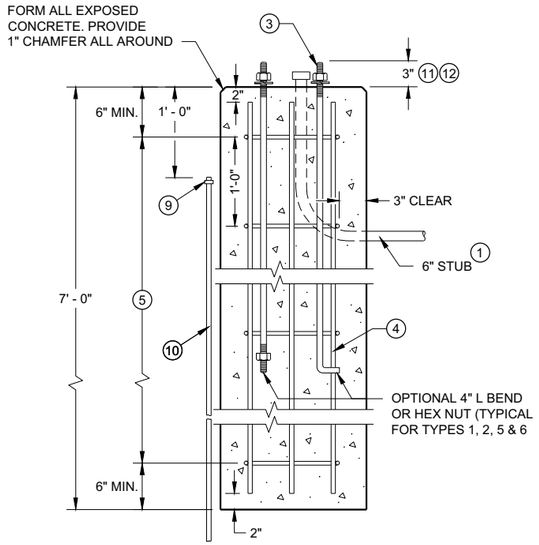
(12) FOR NON - BREAKAWAY INSTALLATIONS, 4 ½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

HALF SECTION IN UNPAVED AREA
(TYPICAL FOR TYPES 1, 2, 5 & 6)

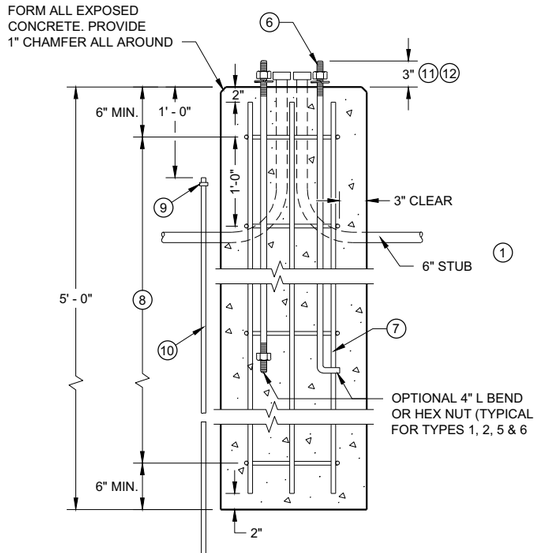
HALF SECTION IN PAVEMENT
(TYPICAL FOR TYPES 1, 2, 5 & 6)



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.

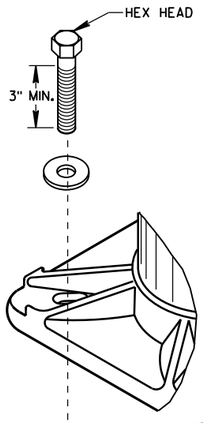
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

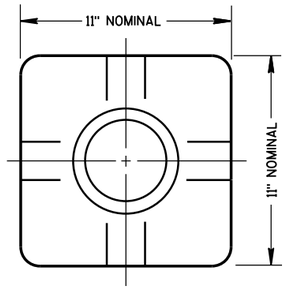
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

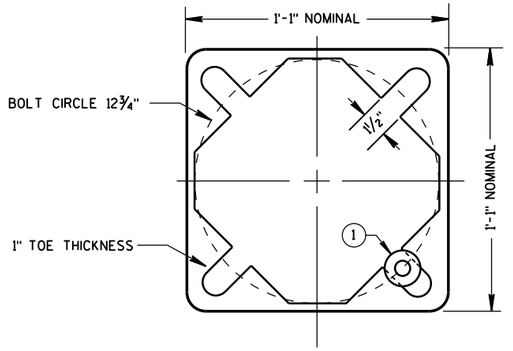
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

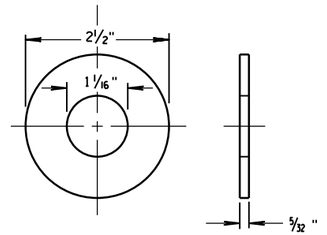




TOP VIEW
(PEDESTAL BASE)

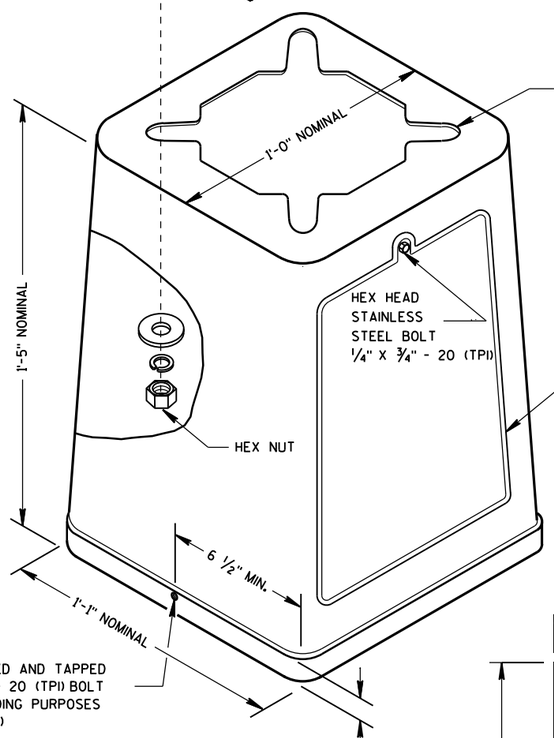


BOTTOM VIEW
(PEDESTAL BASE)

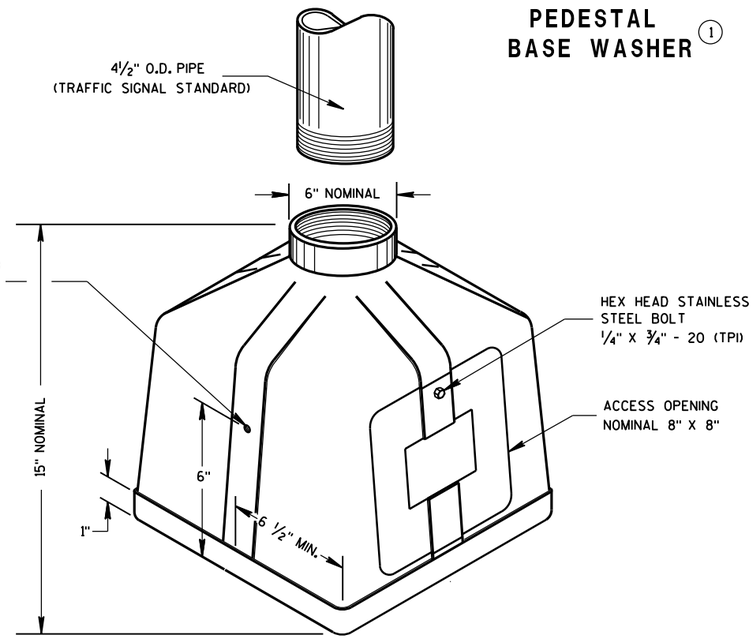


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

PEDESTAL BASE WASHER (1)

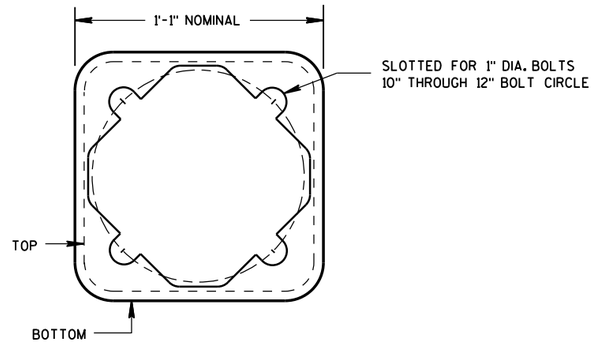


ISOMETRIC VIEW

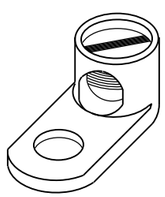


ISOMETRIC VIEW

PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)

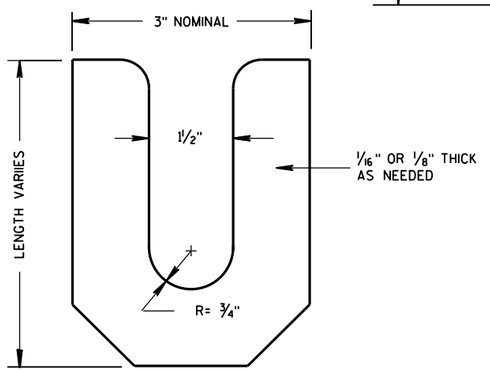


TYPICAL MECHANICAL CONNECTOR LUG

TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE

INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



LEVELING SHIM

TRANSFORMER/PEDESTAL BASES

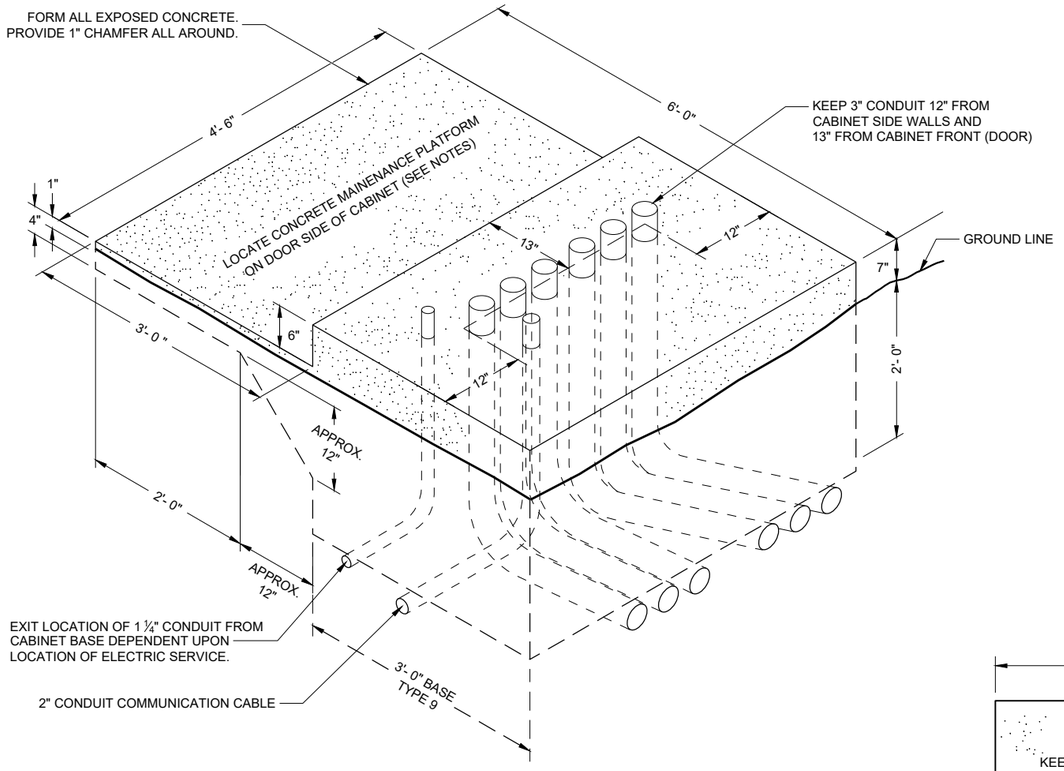
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

S.D.D. 9 C 3-4

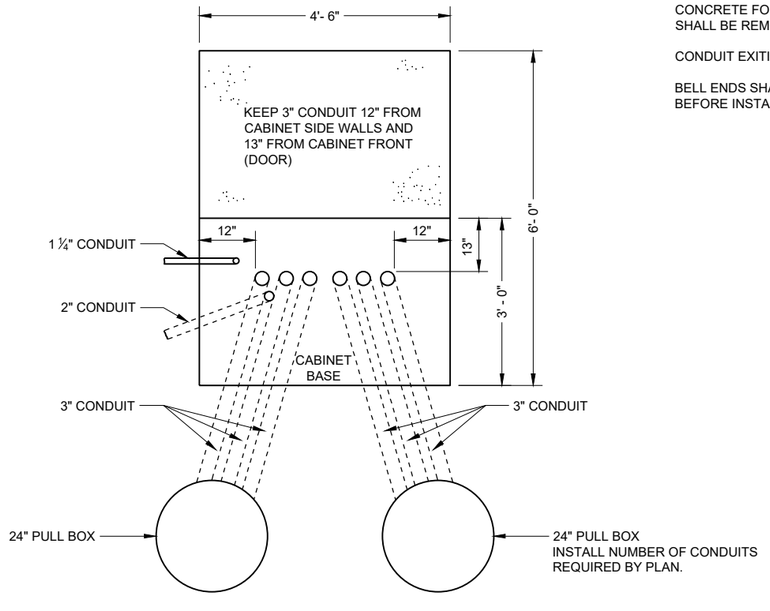
SDD 09C06 Concrete Control Cabinet Base, Type 9, Special



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 260

FHWA

GENERAL NOTES

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

BASES (SHAFT) SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING. A STEEL CASING OR CORRUGATED METAL PIPE IS ALLOWED TO REMAIN. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BASE IN LAYERS OF ONE FOOT OR LESS.

TOP SURFACE OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

WELDING OF ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 TIMES THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 4" INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NON-METALLIC CONDUIT SHALL HAVE BELL ENDS INSTALLED. ALL CONDUIT SHALL SLOPE TO PULL BOX.

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 OF CABLE OR WIRE.

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE 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.

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.

(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 (GREATER THAN 36 INCHES IF INSTALLED IN BREAKER RUN) EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.

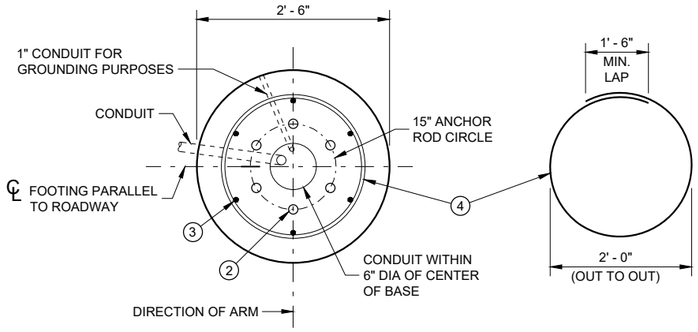
(2) (6) 1 ½ DIA. X 4' - 4" ANCHOR RODS

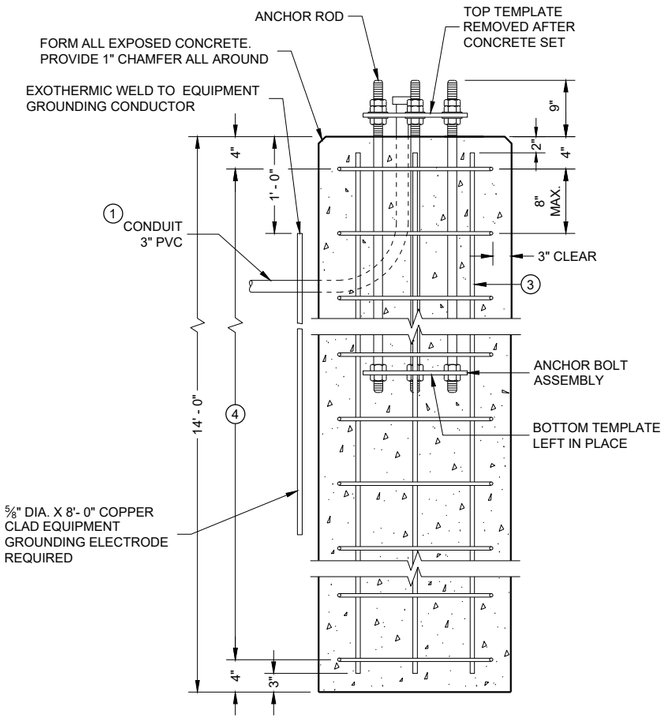
(3) (6) NO. 6 X 13' - 7" BAR STEEL REINFORCEMENT.

(4) (21) NO. 5 X 7'-10" BAR STEEL REINFORCEMENT @ 8" MAX. C-C.

CONCRETE MASONRY.....fc = 3,500 p.s.i
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60.....fy = 60,000 p.s.i.
ANCHOR RODS, ASTM F1554 GRADE 55 (IN ACCORDANCE .....fy = 55,000 p.s.i.
WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATION)
TEMPLATES, ASTM A709, GRADE 36.....fy = 36,000 p.s.i.

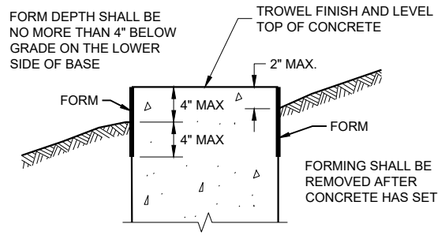
QUANTITY REQUIREMENTS	
APPROX. CUBIC YARDS OF CONCRETE	2.5
LBS. OF HOOP BAR STEEL	172
LBS. OF VERTICAL BAR STEEL	122



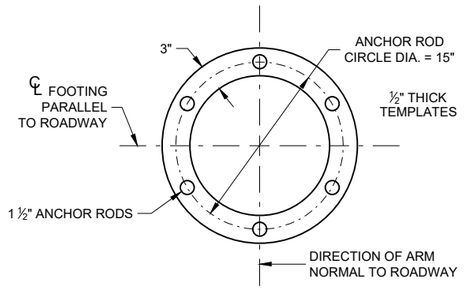


CONCRETE BASE, TYPE 10
(FOR TYPE 9, TYPE 10 AND OVER HEIGHT (OH) POLES)

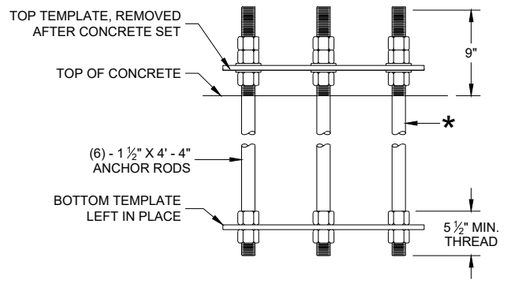
TO BE USED WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION. SEE SDD 9C13 WHEN GROUND ELEVATION AT BASE IS LOWER THAN HIGH POINT OF ROADWAY ELEVATION.



FORMING DETAIL



TOP AND BOTTOM TEMPLATE



ANCHOR ROD ASSEMBLY DETAILS

* THREAD TOP 10" OF ANCHOR ROD FOR 3 NUTS AND 2 WASHERS AND BOTTOM 5 ½" FOR 2 NUTS PER ANCHOR ROD. HOT DIP GALVANIZE THE ENTIRE LENGTH OF THE ANCHOR ROD (ASTM A123) AND HOT DIP NUTS AND WASHERS (ASTM A153. USE ZINC COATED NUTS MANUFACTURED WITH SUFFICIENT ALLOWANCE TO ALLOW NUTS TO RUN FREELY ON THE THREADS.

CONCRETE BASE TYPE 10

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2017 — DATE
/S/ Ahmet Demerbilek — WIND LOADED STRUCTU PROGRAM LEADER
FHWA

6

SDD 09C11 - 10

6

SDD 09C11 - 10

GENERAL NOTES

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

THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

BASES (SHAFT) SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING. A STEEL CASING OR CORRUGATED METAL PIPE IS ALLOWED TO REMAIN. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BASE IN LAYERS OF ONE FOOT OR LESS.

TOP SURFACE OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

ANY DAMAGE TO THE CONCRETE BASE AND ANCHOR RODS DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT THE ENGINEER'S DIRECTION, AT THE EXPENSE OF THE CONTRACTOR.

THE REINFORCEMENT AND ANCHOR RODS SHALL BE ADEQUATELY SUPPORTED IN THE PROPER POSITIONS SO NO MOVEMENT OCCURS DURING CONCRETE PLACEMENT.

ORIENT ANCHOR RODS IN FOOTING AND PROVIDE ANCHOR RODS STICK OUT ABOVE TOP OF CONCRETE FOOTING BASE PER THIS SHEET.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

WELDING OF ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

USE 3" CLEAR FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

FORM ALL EXPOSED CONCRETE CORNERS WITH 1" CHAMFER ALL AROUND. TOP OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 TIMES THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 4 ½" INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NON-METALLIC CONDUIT SHALL HAVE BELL ENDS INSTALLED. ALL CONDUIT SHALL SLOPE TO PULL BOX.

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 OF CABLE OR WIRE.

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

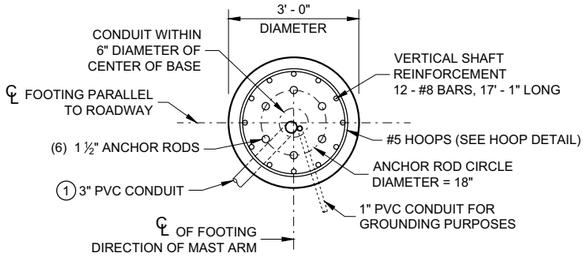
A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE 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.

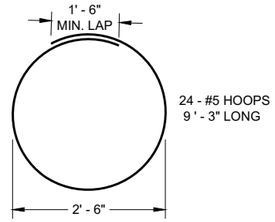
THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

(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 (GREATER THAN 36 INCHES IF INSTALLED IN BREAKER RUN) EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.

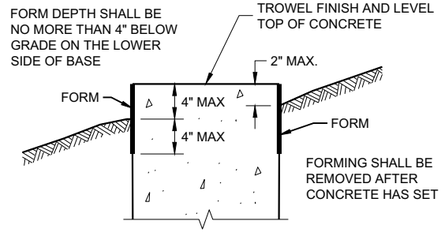
CONCRETE MASONRY.....fc = 3,500 p.s.i
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60.....fy = 60,000 p.s.i.
ANCHOR RODS, ASTM F1554 GRADE 55 (IN ACCORDANCE WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATION).....fy = 55,000 p.s.i.
TEMPLATES, ASTM A709, GRADE 36.....fy = 36,000 p.s.i.



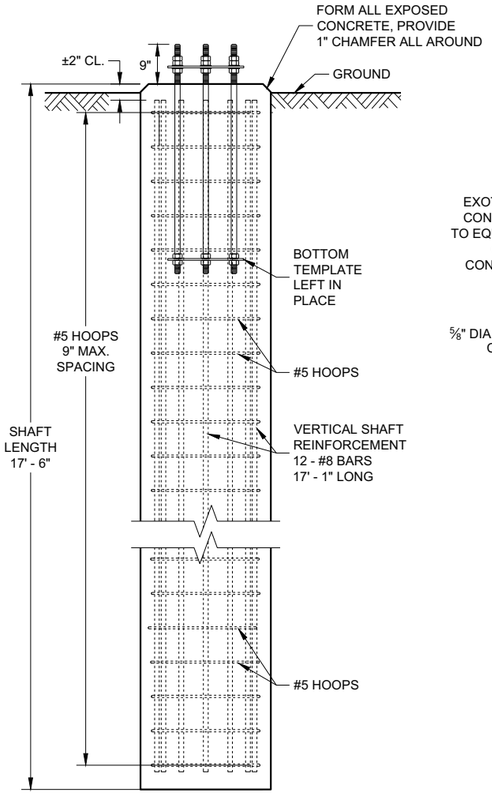
PLAN VIEW



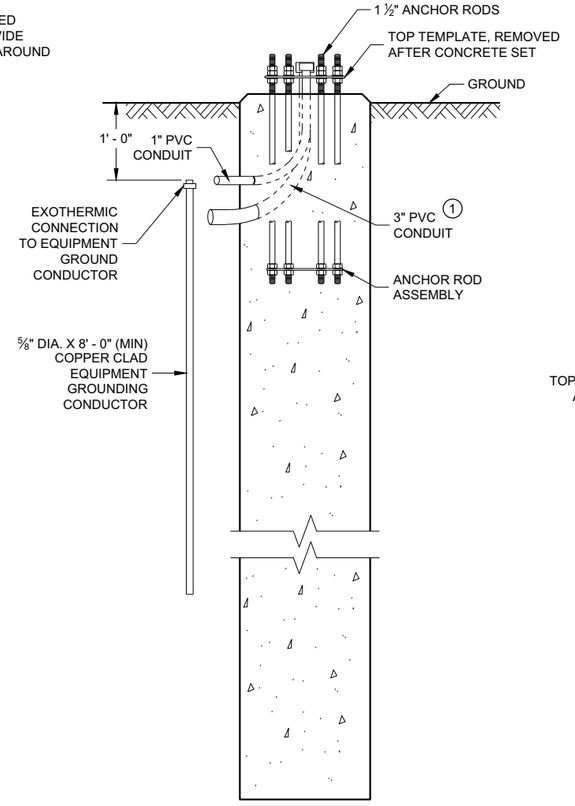
HOOP DETAIL



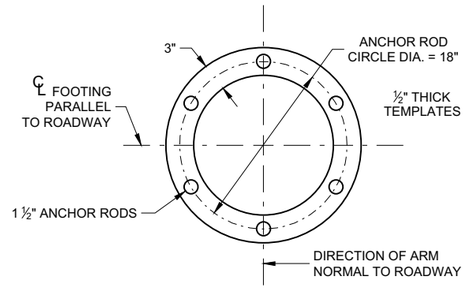
FORMING DETAIL



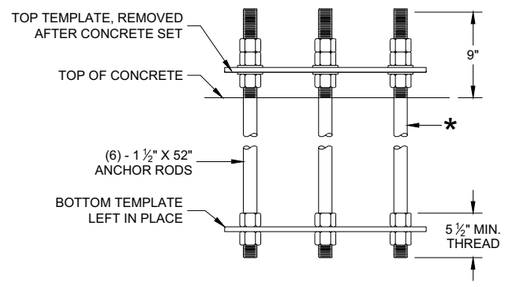
ELEVATION VIEW
(CONDUITS NOT SHOWN ON THIS VIEW FOR CLARITY)



SIDE VIEW
(HOOPS AND VERTICAL SHAFT REINFORCEMENT NOT SHOWN ON THIS VIEW FOR CLARITY)



TOP AND BOTTOM TEMPLATE



ANCHOR ROD ASSEMBLY DETAILS

* THREAD TOP 10" OF ANCHOR ROD FOR 3 NUTS AND 2 WASHERS AND BOTTOM 5 ½" FOR 2 NUTS PER ANCHOR ROD. HOT DIP GALVANIZE THE ENTIRE LENGTH OF THE ANCHOR ROD (ASTM A123) AND HOT DIP NUTS AND WASHERS (ASTM A153. USE ZINC COATED NUTS MANUFACTURED WITH SUFFICIENT ALLOWANCE TO ALLOW NUTS TO RUN FREELY ON THE THREADS.

CONCRETE BASE, TYPE 10 SPECIAL
(FOR TYPE 9 SPECIAL AND TYPE 10 SPECIAL POLES)

CONCRETE = 4.6 CUBIC YARD
H.S. REINFORCEMENT = 779 LBS.

FOR USE WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION.

CONCRETE BASE TYPE 10 SPECIAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020 — DATE
/S/ Alex Crabtree — WIND LOADED STRUCTU PROGRAM LEADER
FHWA

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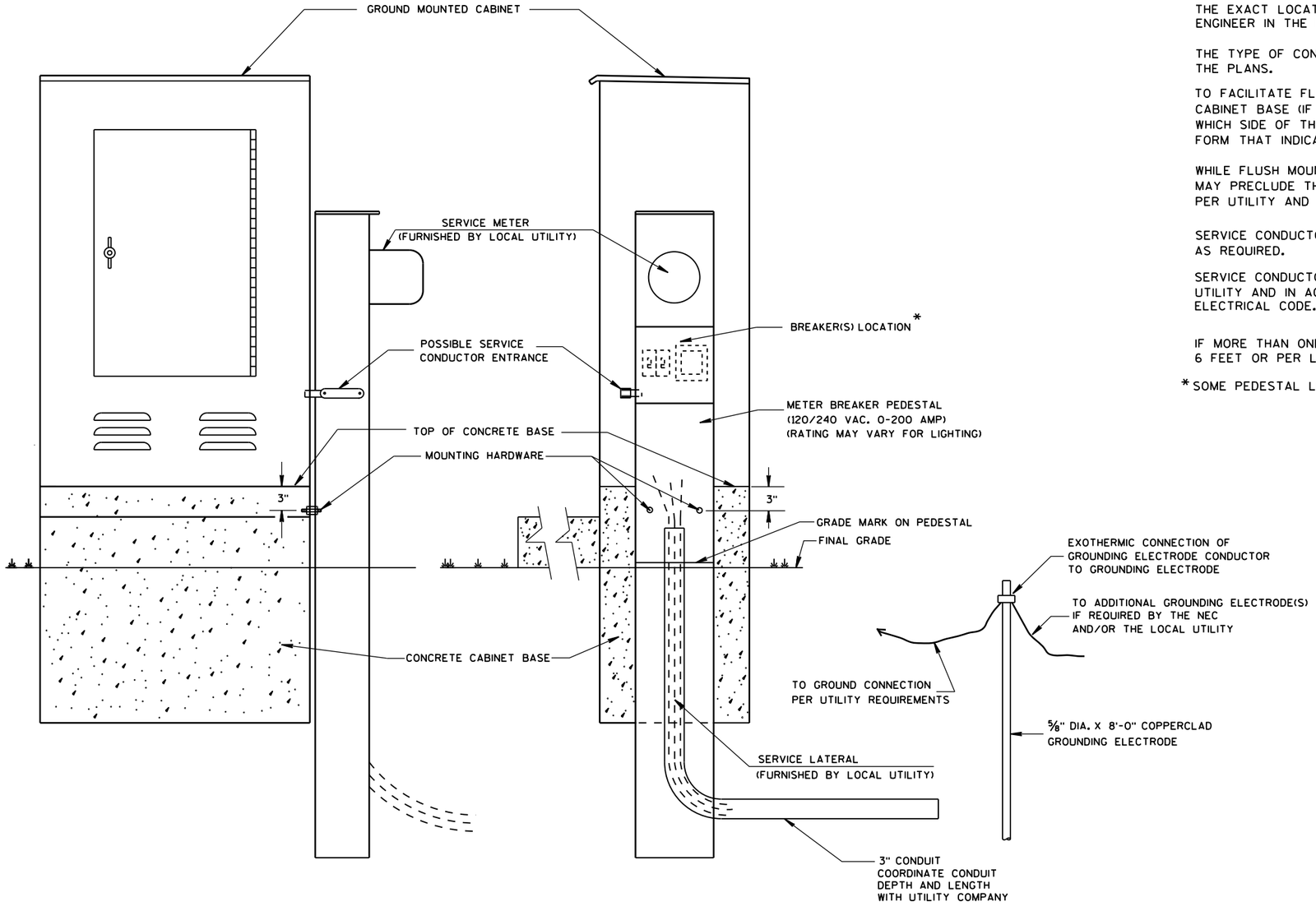

TYPICAL CABINET SERVICE INSTALLATION

GENERAL NOTES

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

THE EXACT LOCATION OF THE METER BREAKER PEDESTAL SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE TYPE OF CONCRETE CABINET BASE TO BE INSTALLED SHALL BE AS CALLED FOR IN THE PLANS.

TO FACILITATE FLUSH MOUNTING OF THE METER BREAKER PEDESTAL AGAINST THE SIDE OF THE CABINET BASE (IF FLUSH MOUNTING POSSIBLE. CONFER WITH THE LOCAL UTILITY TO DETERMINE WHICH SIDE OF THE CONCRETE BASE THE ELECTRICAL SERVICE LATERAL WILL APPROACH. THEN FORM THAT INDICATED SIDE FOR FULL SIDE DEPTH.

WHILE FLUSH MOUNTING IS THE MOST DESIRABLE MOUNTING CONFIGURATION UTILITY REQUIREMENTS MAY PRECLUDE THIS OPTION. CONTRACTOR MUST PROVIDE UTILITY APPROVED PEDESTAL AND INSTALL PER UTILITY AND MANUFACTURERS REQUIREMENTS.

SERVICE CONDUCTOR ENTRANCES SHALL BE RIGID METALLIC CONDUIT, NIPPLES AND/OR CONDULETS AS REQUIRED.

SERVICE CONDUCTOR ENTRANCES SHALL BE SIZED AND LOCATED AS REQUIRED BY THE LOCAL UTILITY AND IN ACCORDANCE WITH APPROPRIATE ARTICLES OF THE LATEST ACCEPTED NATIONAL ELECTRICAL CODE.

IF MORE THAN ONE GROUNDING ELECTRODE IS REQUIRED, THE DISTANCE APART SHALL BE 6 FEET OR PER LOCAL UTILITY REGULATIONS.

* SOME PEDESTAL LIGHTING PLANS SHOW MAIN LUGS ONLY.

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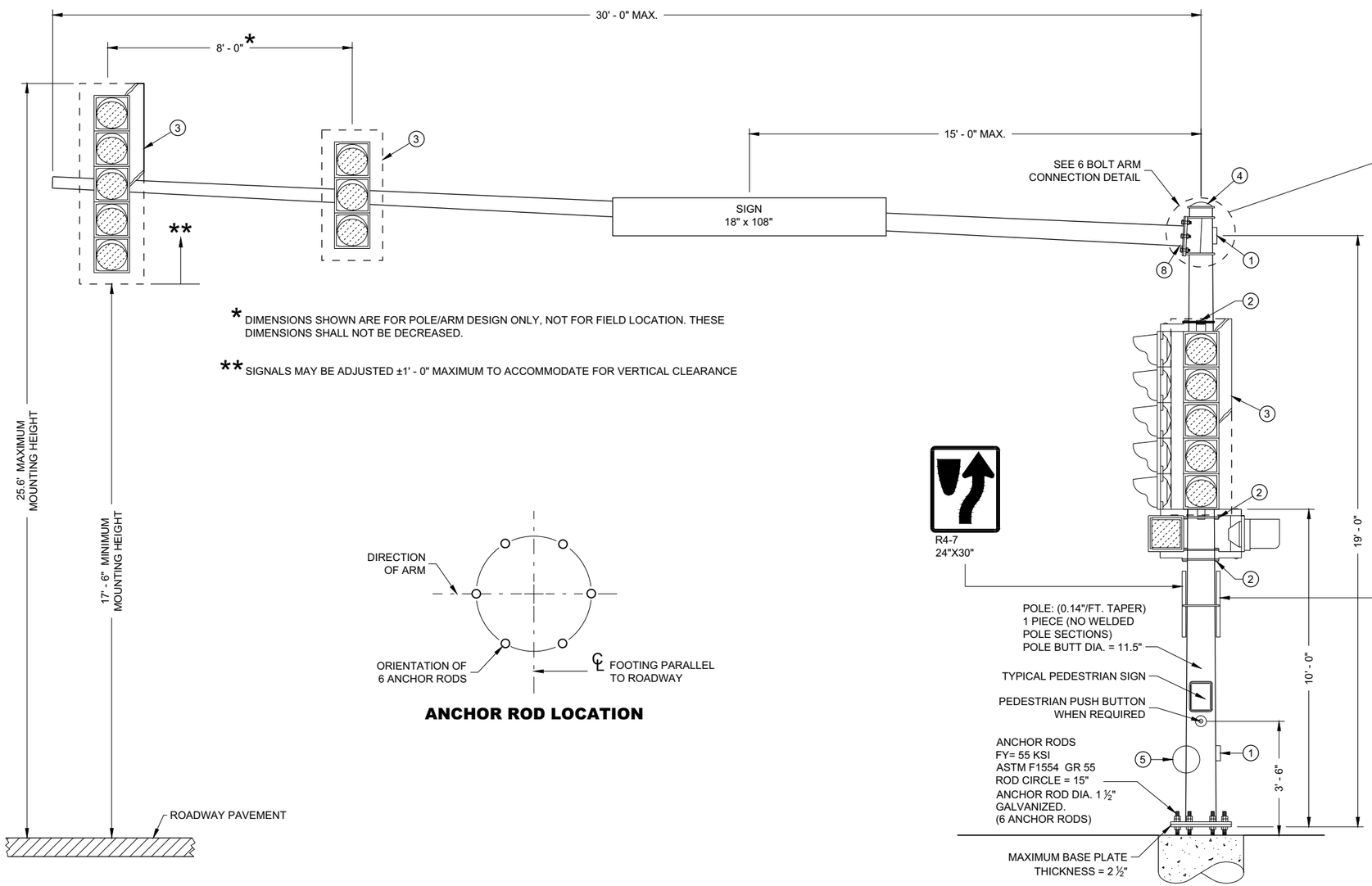
CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL

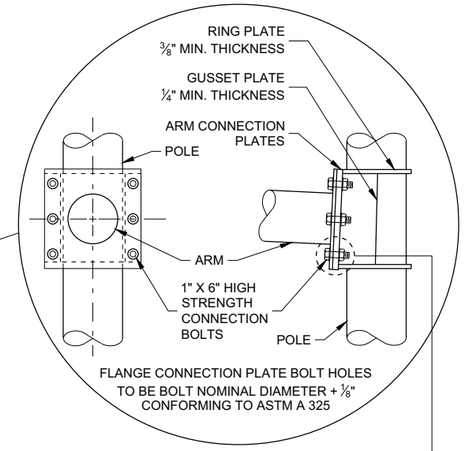
FHWA



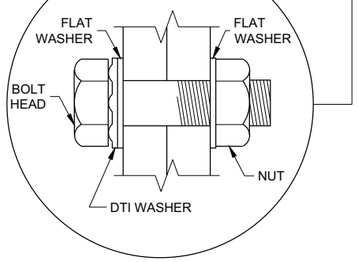
* DIMENSIONS SHOWN ARE FOR POLE/ARM DESIGN ONLY, NOT FOR FIELD LOCATION. THESE DIMENSIONS SHALL NOT BE DECREASED.

** SIGNALS MAY BE ADJUSTED ±1' - 0" MAXIMUM TO ACCOMMODATE FOR VERTICAL CLEARANCE

ANCHOR ROD LOCATION



6 BOLT ARM CONNECTION DETAIL



RECOMMENDED BOLT ASSEMBLY DETAIL

TYPE 9 POLE
15' - 30' MONOTUBE ARM
(MAXIMUM LOAD)

TYPE 9 POLE 15' - 30' MONOTUBE ARM	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED August 2020 DATE	/S/ Ahmet Demirbilek STATE ELECTRICAL ENGI

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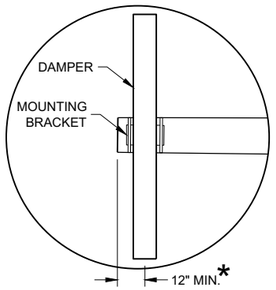
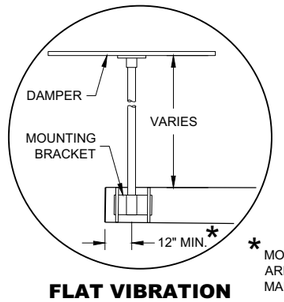
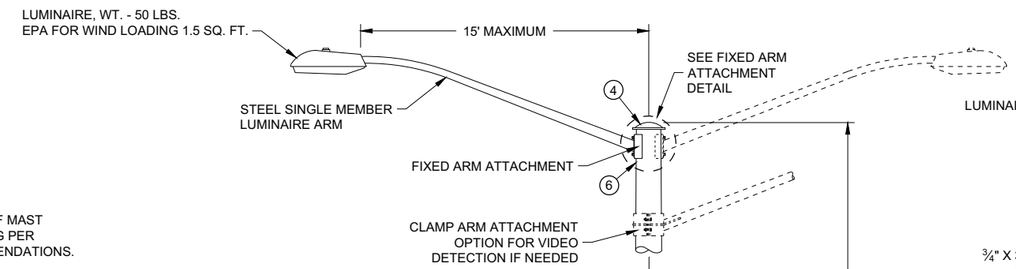


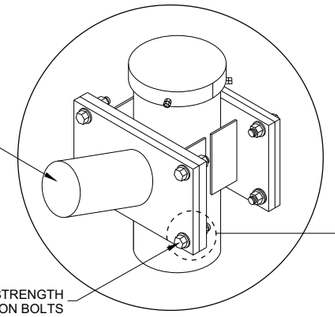
DUMBBELL VIBRATION DAMPER



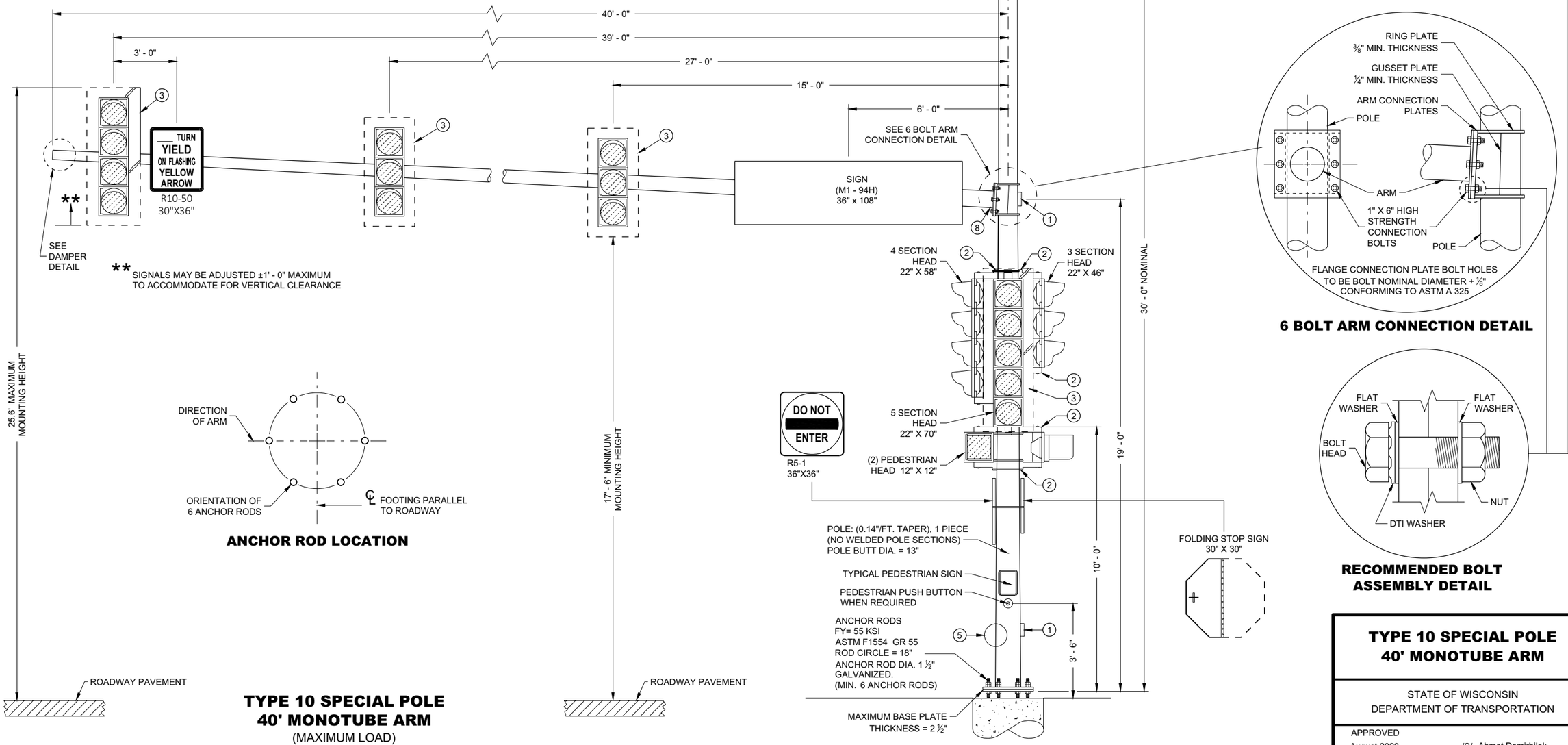
FLAT VIBRATION DAMPER

* MOUNT AS CLOSE TO END OF MAST ARM FOR MAXIMUM DAMPING PER MANUFACTURER'S RECOMMENDATIONS.





FIXED ARM ATTACHMENT DETAIL



** SIGNALS MAY BE ADJUSTED ±1' - 0" MAXIMUM TO ACCOMMODATE FOR VERTICAL CLEARANCE

ANCHOR ROD LOCATION

TYPE 10 SPECIAL POLE
40' MONOTUBE ARM
(MAXIMUM LOAD)

6 BOLT ARM CONNECTION DETAIL

RECOMMENDED BOLT ASSEMBLY DETAIL

TYPE 10 SPECIAL POLE
40' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 265

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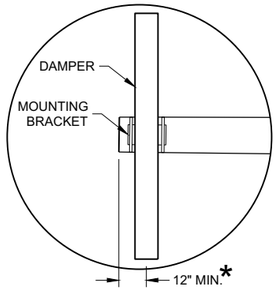
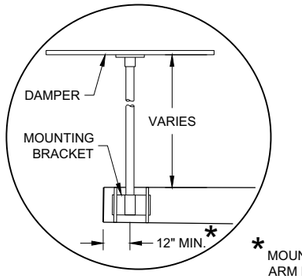
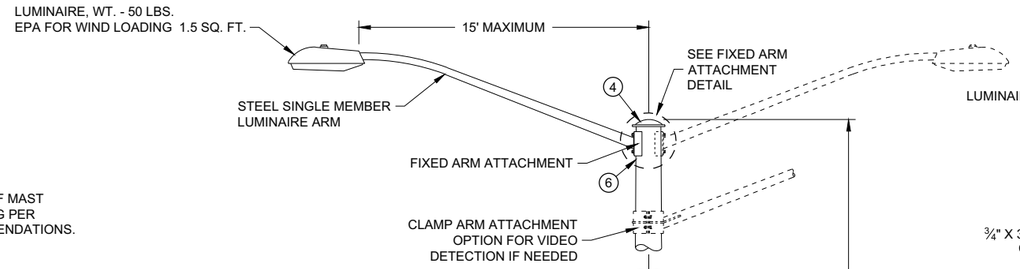


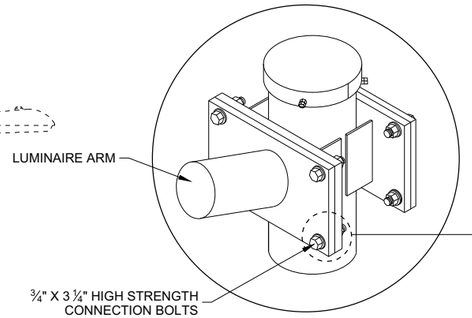
DUMBBELL VIBRATION DAMPER



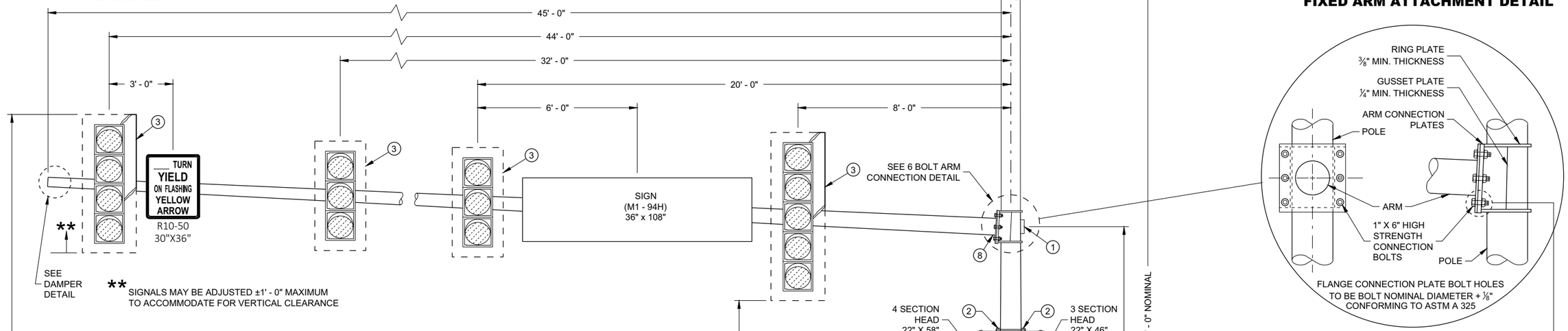
FLAT VIBRATION DAMPER

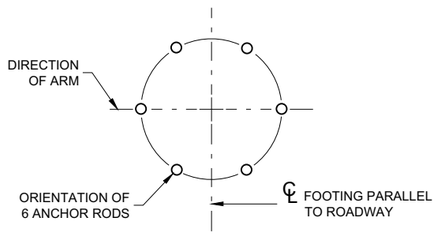
* MOUNT AS CLOSE TO END OF MAST ARM FOR MAXIMUM DAMPING PER MANUFACTURER'S RECOMMENDATIONS.





FIXED ARM ATTACHMENT DETAIL

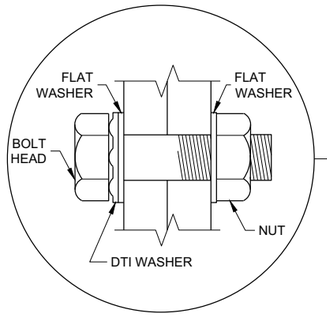




ANCHOR ROD LOCATION

TYPE 10 SPECIAL POLE
45' MONOTUBE ARM
(MAXIMUM LOAD)

6 BOLT ARM CONNECTION DETAIL



RECOMMENDED BOLT ASSEMBLY DETAIL

TYPE 10 SPECIAL POLE
45' MONTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

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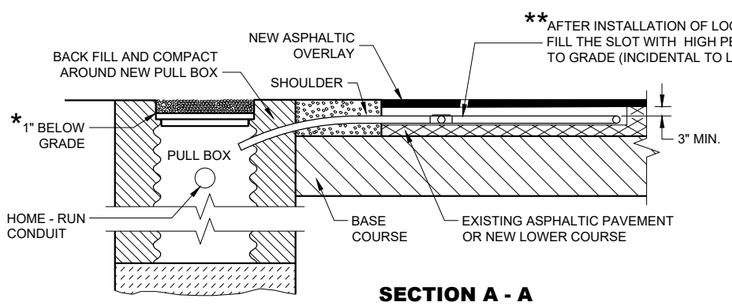
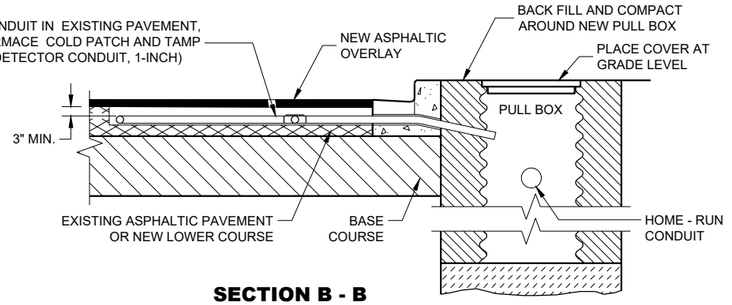


SECTION A - A
NO CURB AND GUTTER

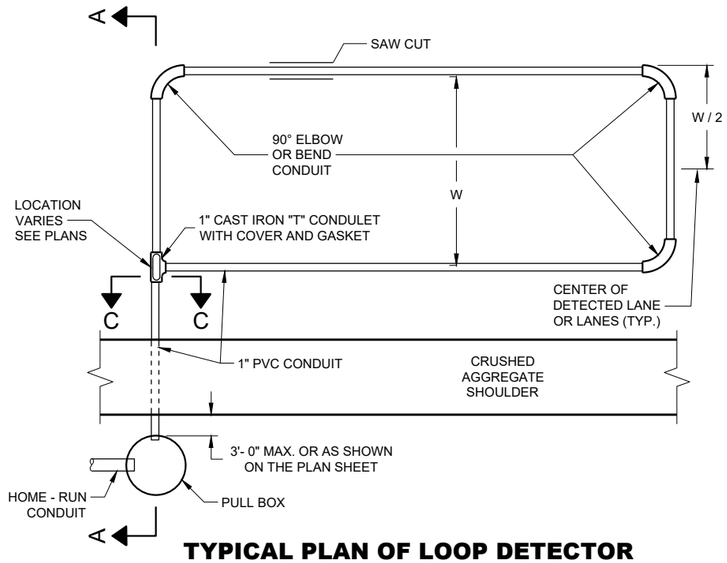
LOOP DETECTOR INSTALLATION DETAIL



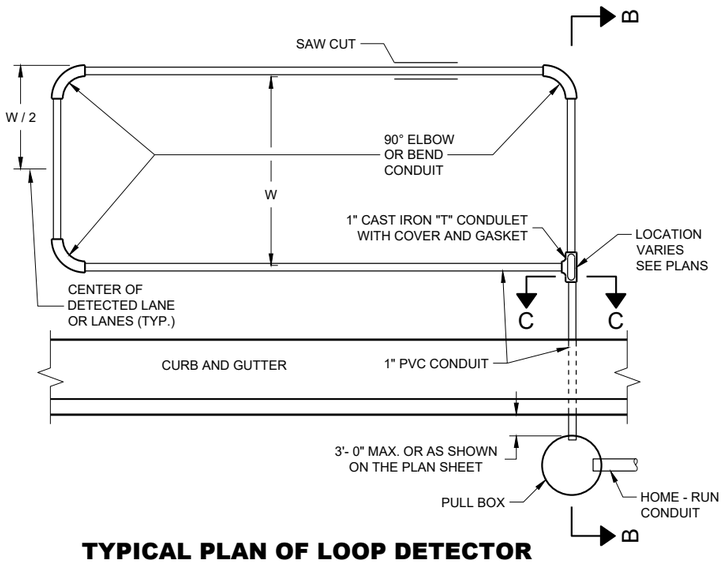
SECTION B - B
CURB AND GUTTER

LOOP DETECTOR INSTALLATION DETAIL

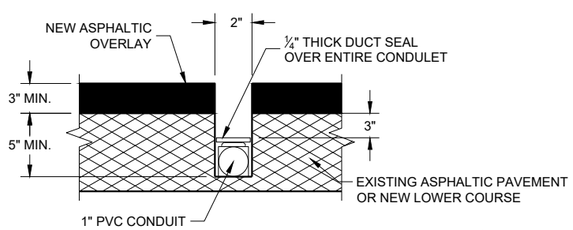
* RECESS PULL BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.



TYPICAL PLAN OF LOOP DETECTOR



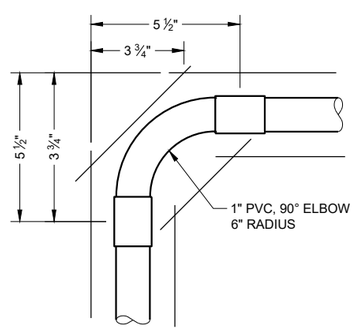
TYPICAL PLAN OF LOOP DETECTOR



SIDE VIEW
SECTION C - C

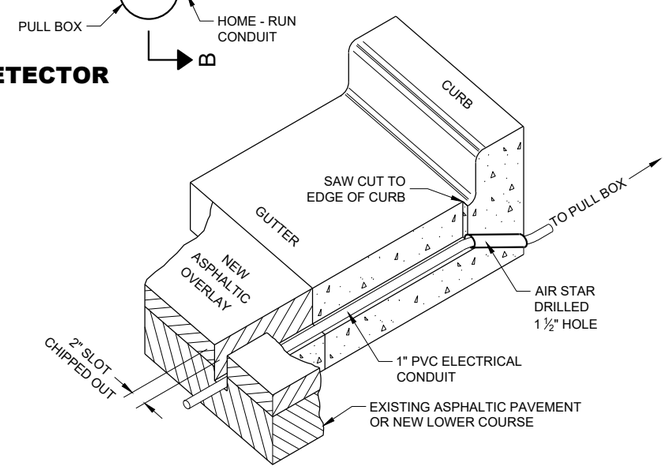
IF PAVEMENT IS LESS THAN 4 INCHES THICK, CONDUIT SHALL BE PLACED IN BASE COURSE.

LOOP DETECTOR SLOT DETAIL



TOP VIEW

CORNER SAW SLOT DETAIL



ISOMETRIC VIEW

TYPICAL SAW CUT DETAIL FOR LEAD-IN CONDUIT

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 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 FROM THE LOOP TO THE ROADSIDE PULL BOX, SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE INSTALLATION.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL BOXES AT THE SIDE OF THE ROAD.

THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL BOX, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL BOX, AND BE INSTALLED IN ONE NON-SPLICED, CONTINUOUS LENGTH.

BEFORE PLACING THE 1 INCH CONDUIT IN THE CLEANED OUT SLOT, PLACE SOME OF THE TAR OR EPOXY SEALANT IN THE SLOT TO A DEPTH OF APPROXIMATELY ½ INCH. IF THE CONDUIT MUST BE PLACED IN THE BASE COURSE, DO NOT PLACE THE TAR OR EPOXY SEALANT IN THE SLOT.

ONCE THE 2" LOOP SLOT HAS BEEN CHIPPED OUT, THE LOOP INSTALLATION SHALL BE COMPLETED PRIOR TO OPENING THE LANE(S) TO TRAFFIC.

** AFTER THE HIGH PERFORMANCE COLD PATCH HAS BEEN TAMPED, SEAL THE SLOT/HIGH PERFORMANCE COLD PATCH/PAVEMENT OPENING WITH HOT POURED ELASTIC TYPE MATERIAL CONFORMING TO THE REQUIREMENTS OF THE "SPECIFICATION FOR JOINT SEALANTS, HOT POURED, FOR CONCRETE AND ASPHALT PAVEMENTS, ASTM DESIGNATION: D3405".

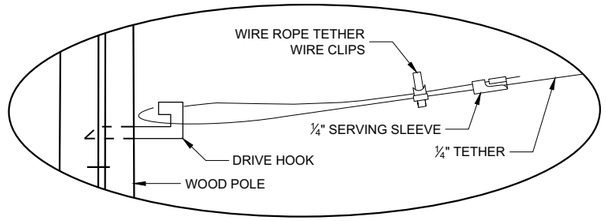
IN THE EVENT HIGH PERFORMANCE COLD PATCH IS NOT AVAILABLE, AND FLEXIBLE TYPE EPOXY IS USED AS A LOOP SLOT FILLER, THE 2 INCH SLOT SHALL BE TOTALLY CLEAN AND DRY BEFORE ITS INSTALLATION. EPOXY USE SHALL BE APPROVED BY THE DISTRICT TRAFFIC ENGINEER AND THE FURNISHED EPOXY SHALL BE INSTALLED AFTER WRITTEN APPROVAL BY THE PROJECT ENGINEER.

LOOP DETECTOR INSTALLED IN EXISTING OR NEW ASPHALTIC PAVEMENT WITH NEW ASPHALTIC OVERLAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
September 2014
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 267
FHWA

MINIMUM POLE LENGTHS	POLE BURIAL DEPTHS
25'	5'
30'	6'
35'	7'
40'	8'
45'	9'

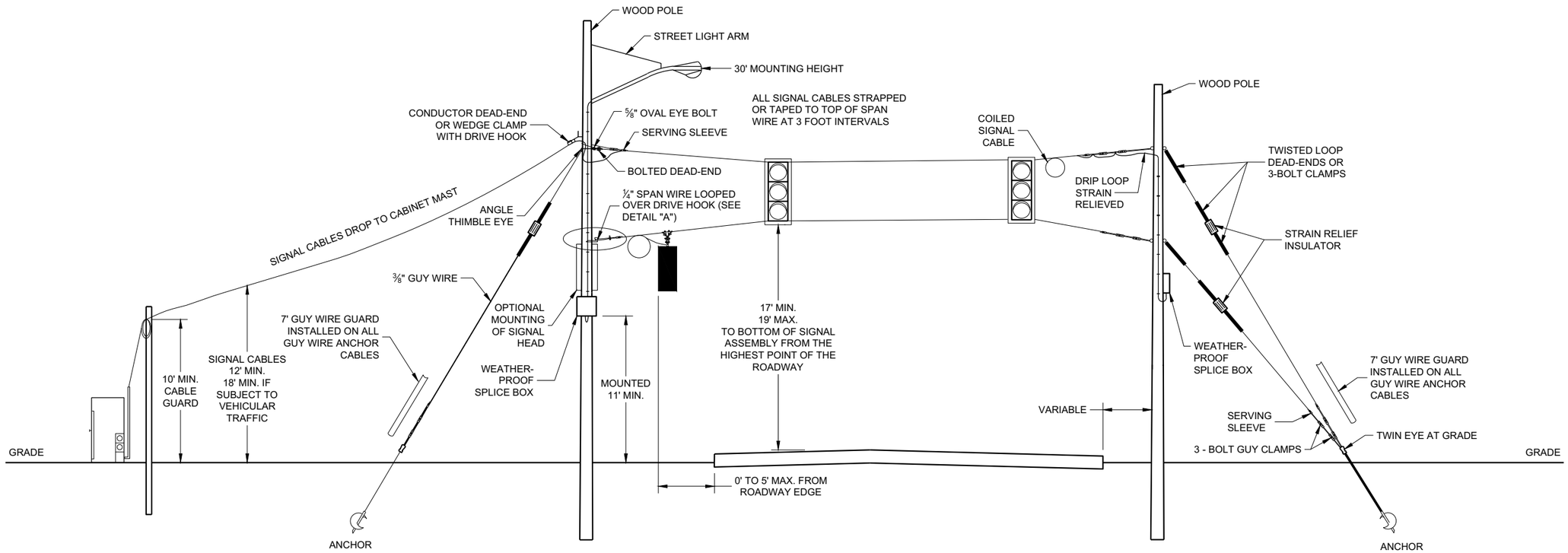


DETAIL "A"

GENERAL NOTES

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

1. WOOD POLES SHALL BE CLASS 4. LENGTH DETERMINED BY SIGNAL PLAN.
2. SIGNAL FACES:
   A. ALL SECTIONS SHALL BE 12" AND POLYCARBONATE.
   B. EACH SHALL CONTAIN A 5" WIDE DULL BLACK POLYCARBONATE BACKPLATE.
   C. EACH SHALL BE WIRED FROM THE TOP SIGNAL MOUNTING BRACKET.
   D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.
3. SPAN WIRE:
   A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED
   B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.
   C. THE SIGNAL ASSEMBLY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK PROGRESSES.



SPAN WIRE
TEMPORARY SIGNALS

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2015 — DATE
/S/ Ahmet Demerbilek — STATE ELECTRICAL ENGI
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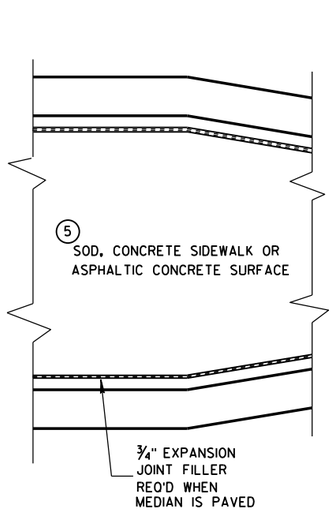
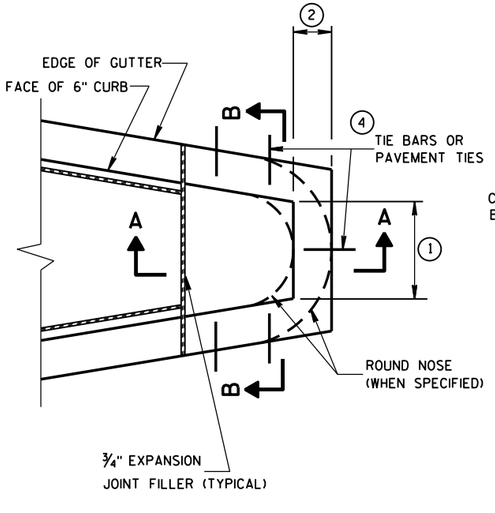
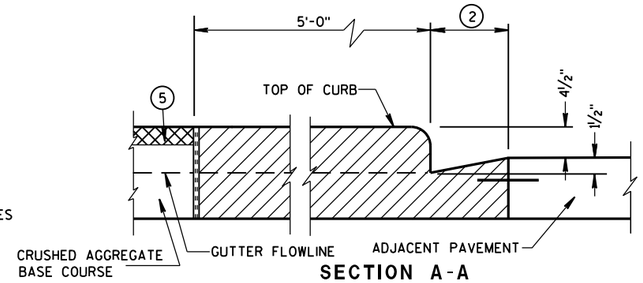
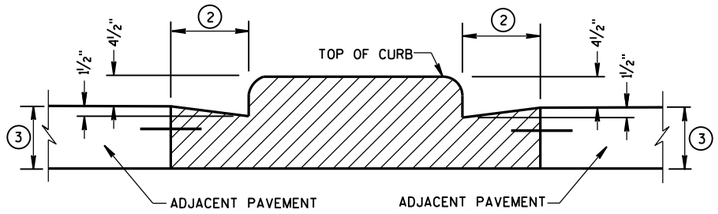






SECTION A-A



SECTION B-B

CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

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

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

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

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

(1) NEW OR EXISTING CONCRETE PAVEMENT.

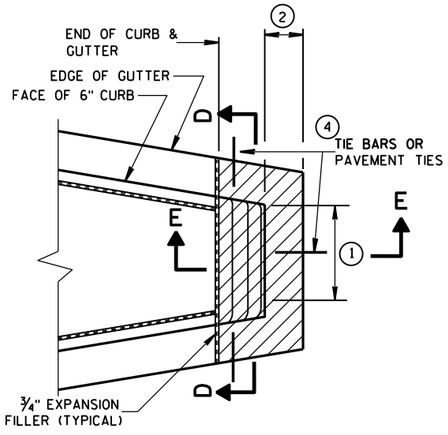
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

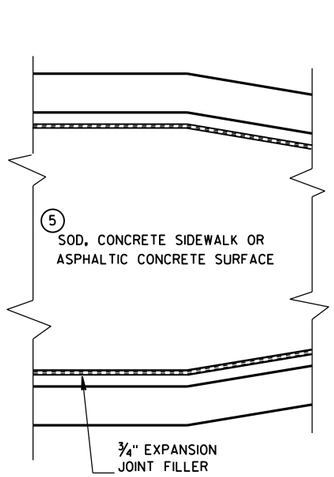
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

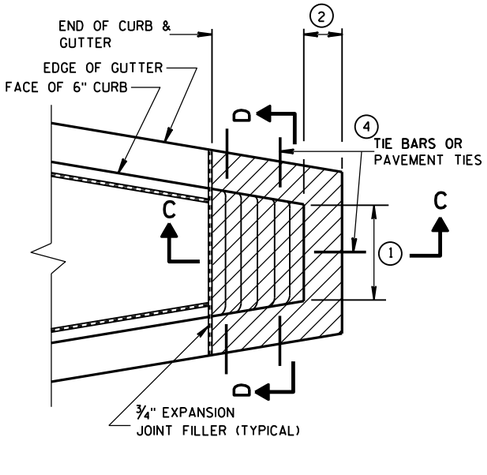
(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

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

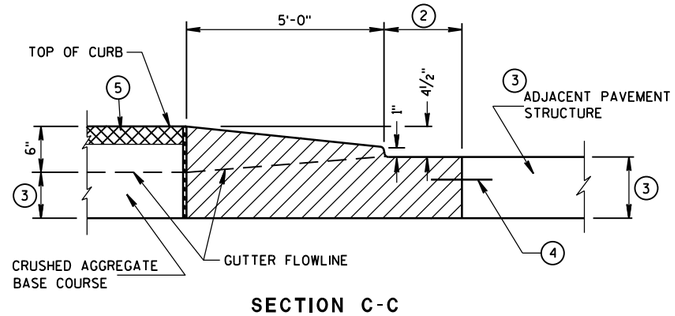
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.



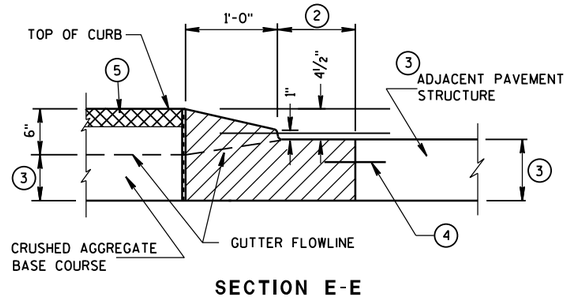




CONCRETE MEDIAN SLOPED NOSE TYPE 1

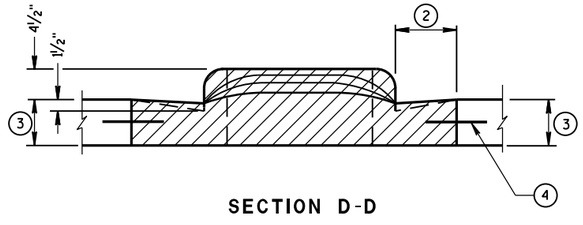


SECTION C-C



SECTION E-E

CONCRETE MEDIAN SLOPED NOSE TYPE 2



SECTION D-D

CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

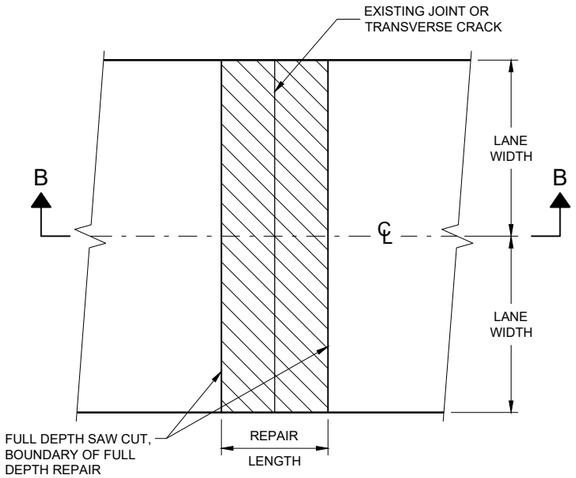
APPROVED
6/8/2006
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS D ENGINEER
FHWA

6

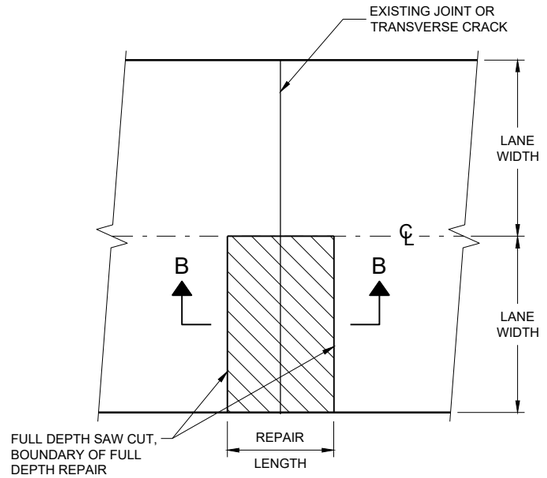
S.D.D. 11 B 2-2

6

S.D.D. 11 B 2-2



PLAN VIEW
(DOUBLE LANE REPAIR)



PLAN VIEW
(SINGLE LANE REPAIR)

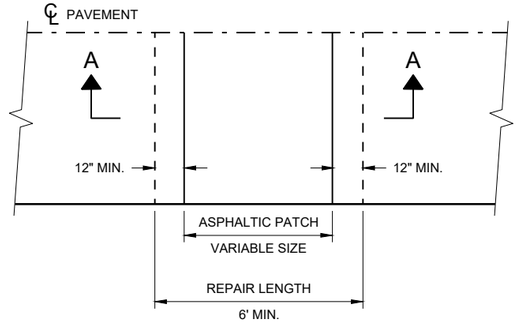
GENERAL NOTES

SAW CUT, DRILL, AND LIFT OUT EXISTING CONCRETE PAVEMENT WITHIN THE BOUNDARIES OF CONCRETE REPAIR AREAS. THE CONTRACTOR MAY MAKE ADDITIONAL SAW CUTS INSIDE THE REPAIR LIMITS TO REDUCE WEIGHT AND SIZE OF CONCRETE PIECES.

PROVIDE A 6 FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREA TO ADJACENT TRANSVERSE JOINT OR CRACK.

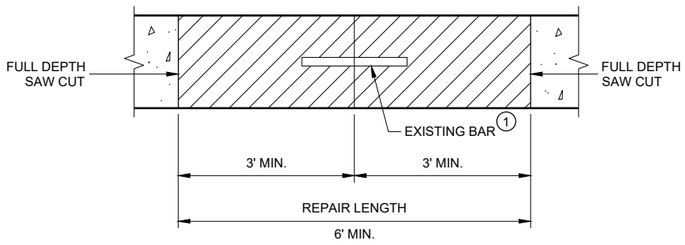
THE LENGTH OF THE REPAIRS MAY VARY FROM THE DIMENSIONS SHOWN IF THE EXISTING CONCRETE PAVEMENT IS NON-DOWELED AND THE PAVEMENT IS TO BE OVERLAID AFTER REPAIRING.

(1) DOWEL BARS MAY NOT BE PRESENT.



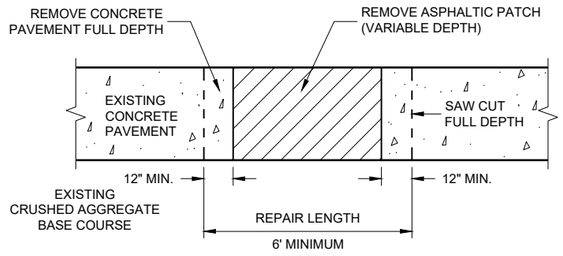
PLAN VIEW

FULL DEPTH CONCRETE PAVEMENT REMOVAL



SECTION B - B

CONCRETE REMOVAL



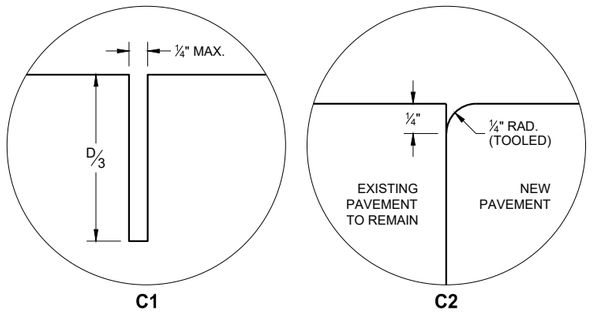
SECTION A - A

HMA PATCH REMOVAL

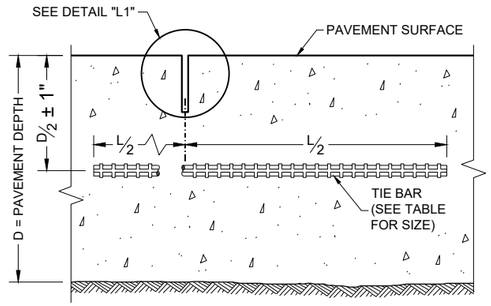
CONCRETE PAVEMENT REPAIR AND REPLACEMENT

SDD13C09 - 17a

6

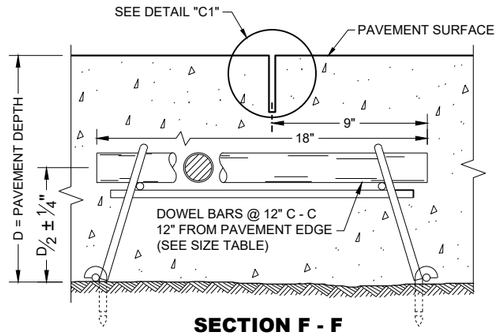


TRANSVERSE JOINTS



SECTION C - C

SAWED LONGITUDINAL JOINT



SECTION F - F

DOWELED CONTRACTION JOINT

GENERAL NOTES

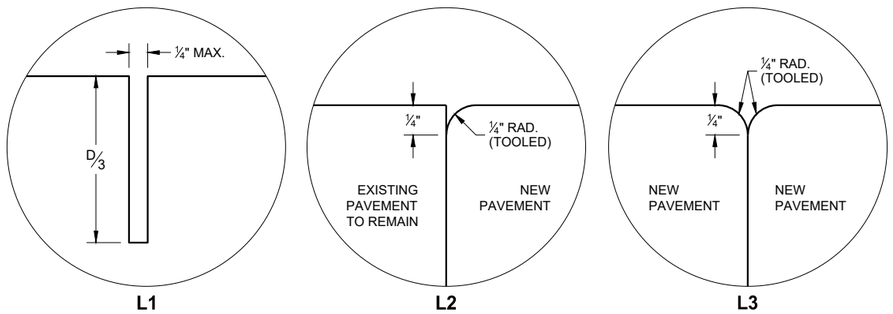
INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

CONCRETE PAVEMENT REPAIRS OF EXISTING NON-DOWELED CONCRETE PAVEMENTS DO NOT NEED TO BE DOWELED.

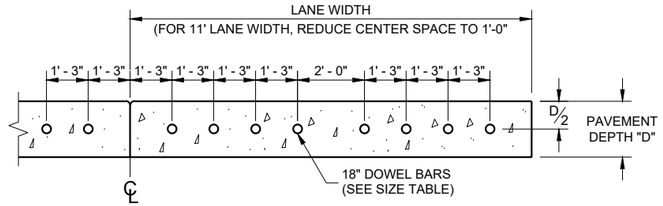
ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

FOR MULTI-LANE CONCRETE PAVEMENT REPLACEMENTS, PROVIDE A MINIMUM DISTANCE OF 15 INCHES FROM ALL TRANSVERSE JOINTS OR EDGES OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT OR EDGE.

(1) APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

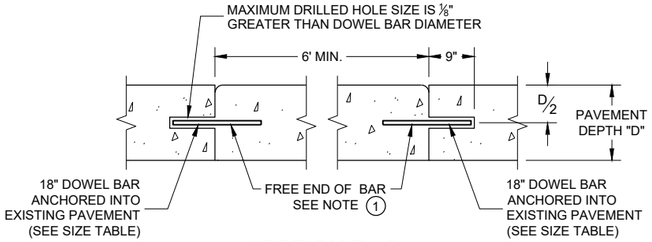


LONGITUDINAL JOINTS



SECTION E - E

DRILLED DOWEL BAR CONSTRUCTION JOINT



SECTION D - D

TIE BAR TABLE

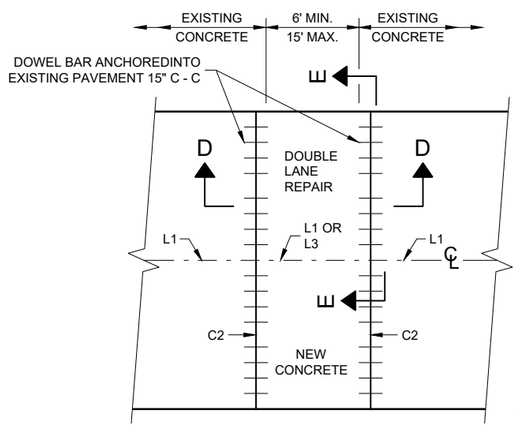
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* 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.

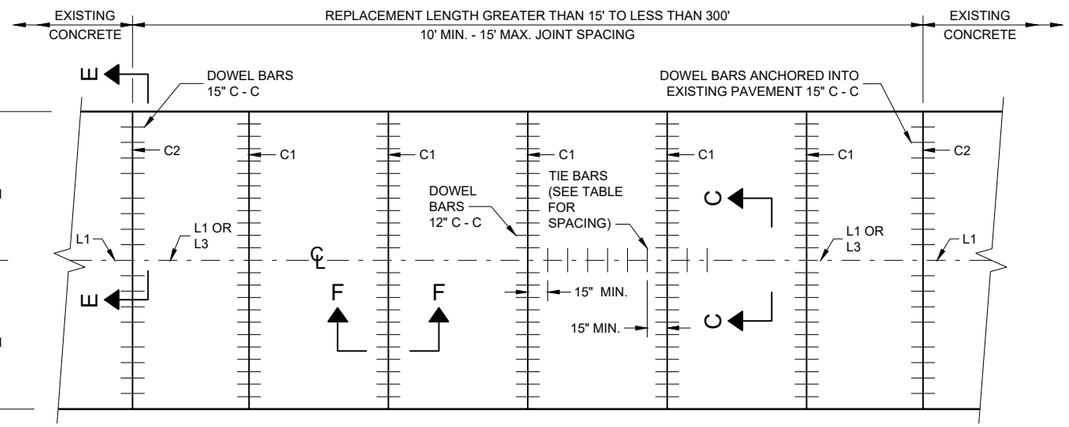
PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	DRILLED DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
6", 6 ½"	NONE	NONE	12'
7", 7 ½"	1"	1"	14'
8" & ABOVE	1 ¼"	1 ¼"	15'



PLAN VIEW

MULTILANE CONCRETE PAVEMENT REPAIR



PLAN VIEW

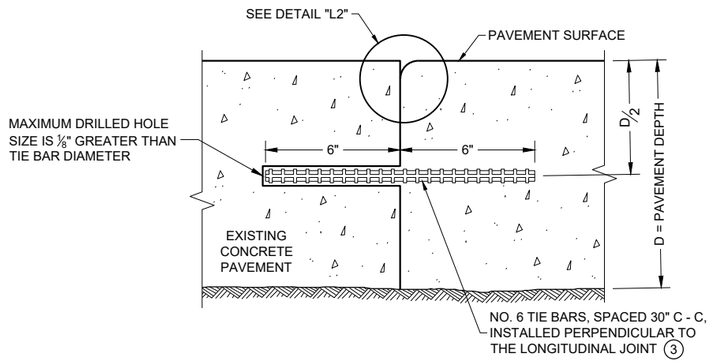
MULTILANE CONCRETE PAVEMENT REPLACEMENT

CONCRETE PAVEMENT REPAIR AND REPLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 13C09 - 17b
SDD 13C09 - 17b

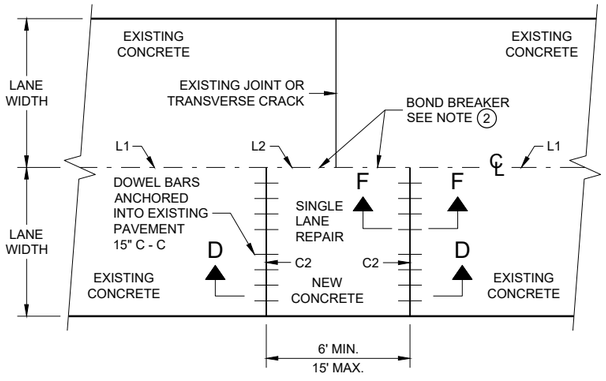


SECTION G - G

TIE BARS ANCHORED INTO EXISTING PAVEMENT

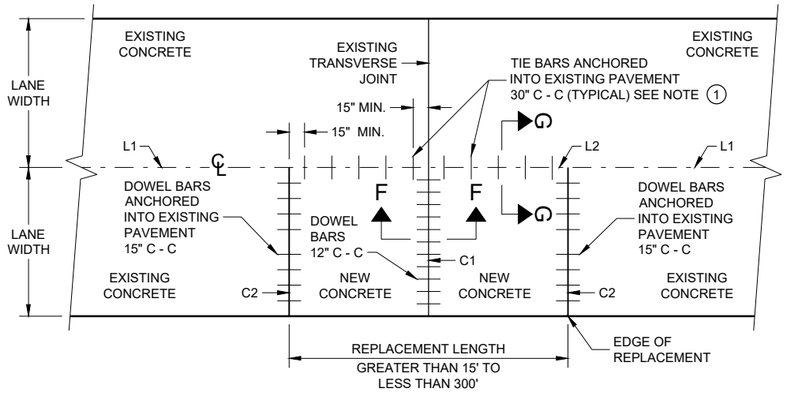
GENERAL NOTES

1. WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH, THE CONTRACTOR MAY INSTALL DRILLED TIE BARS ON 6:1 SKEW HORIZONTALLY, DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR. DRIVE SKEWED TIE BARS TO A DEPTH OF 6 INCHES IN A HOLE OF SUCH A DIAMETER AS TO PROVIDE A TIGHT DRIVEN FIT.
2. USE AN ENGINEER APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) FOR SINGLE LANE REPAIRS UP TO 15 FEET IN LENGTH.
3. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



PLAN VIEW

SINGLE LANE CONCRETE PAVEMENT REPAIR



PLAN VIEW

SINGLE LANE CONCRETE PAVEMENT REPLACEMENT

CONCRETE REPAIR AND REPLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2022
DATE
/S/ Peter Kemp P.E.
PAVEMENT SUPERVIS

FHWA

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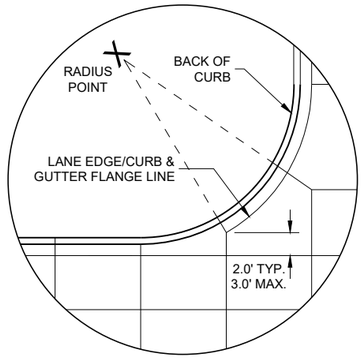
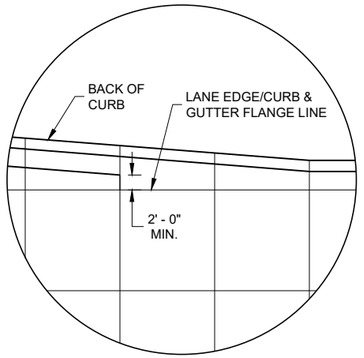
SDD 13C09 - 17c



DETAIL "A"



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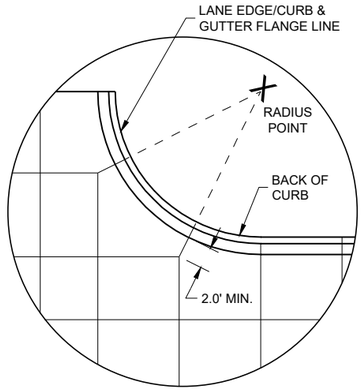
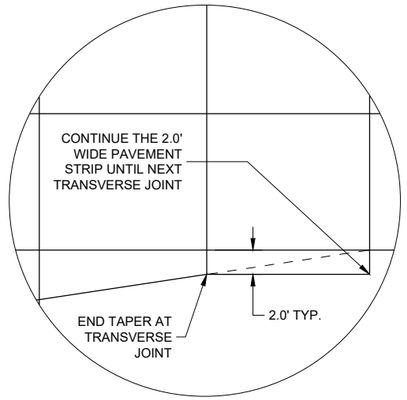


DETAIL "C"



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.

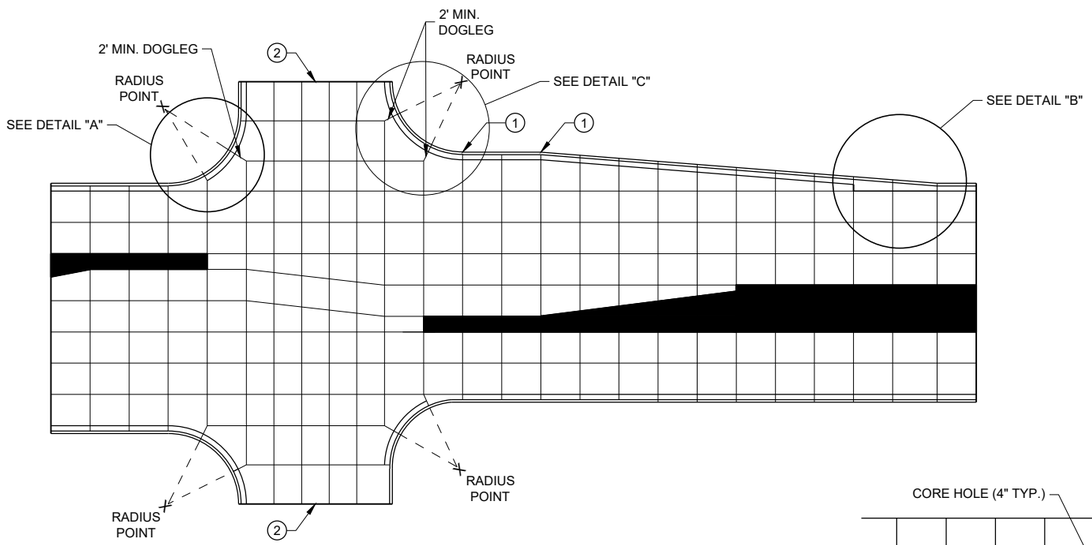
AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

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.

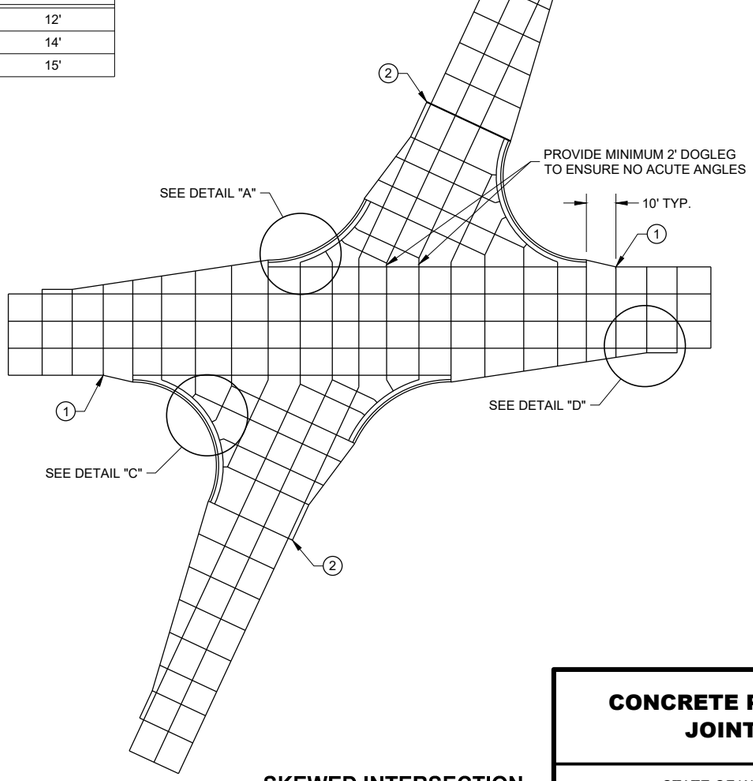
1. PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.
2. CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH EDGE OF RADIUS.
3. THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



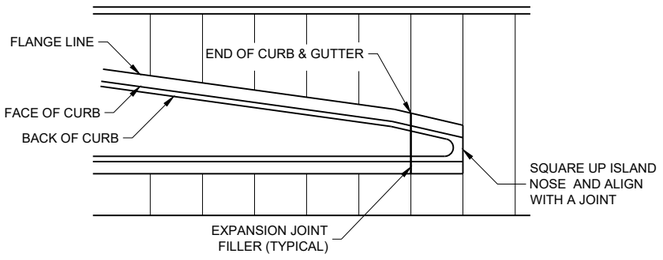
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

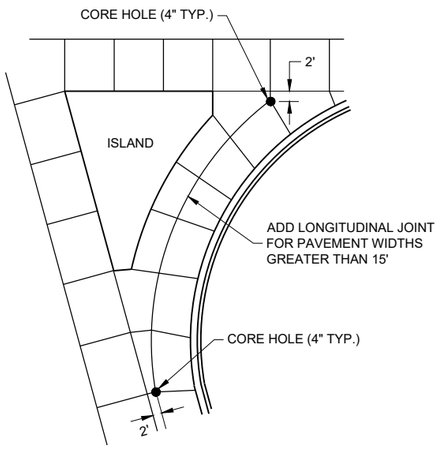
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6 ½"	12'
7", 7 ½"	14'
8" & ABOVE	15'



SKEWED INTERSECTION



APPROACH TO MEDIAN



LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 13C18 - 08a

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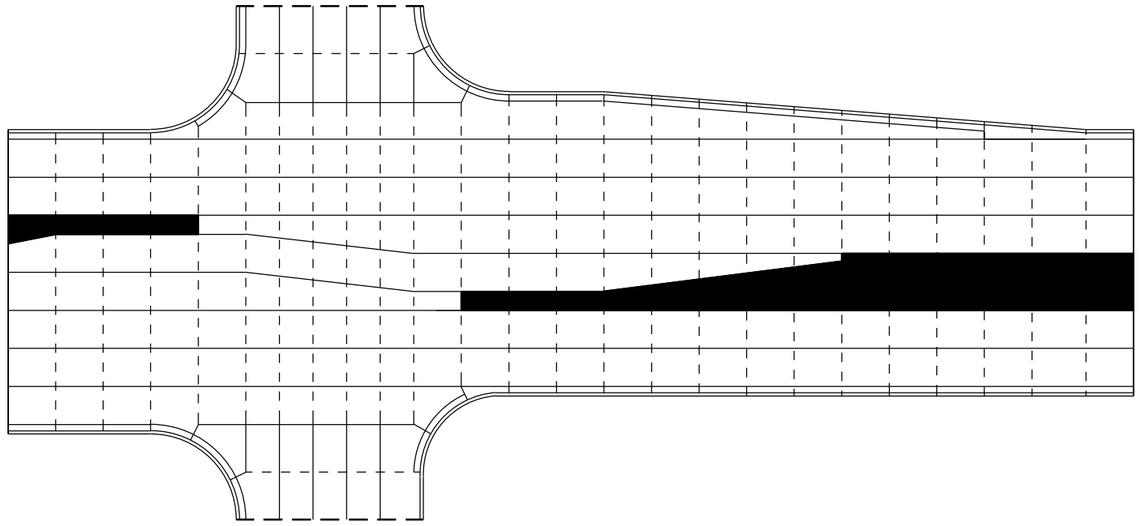
SDD 13C18 - 08a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

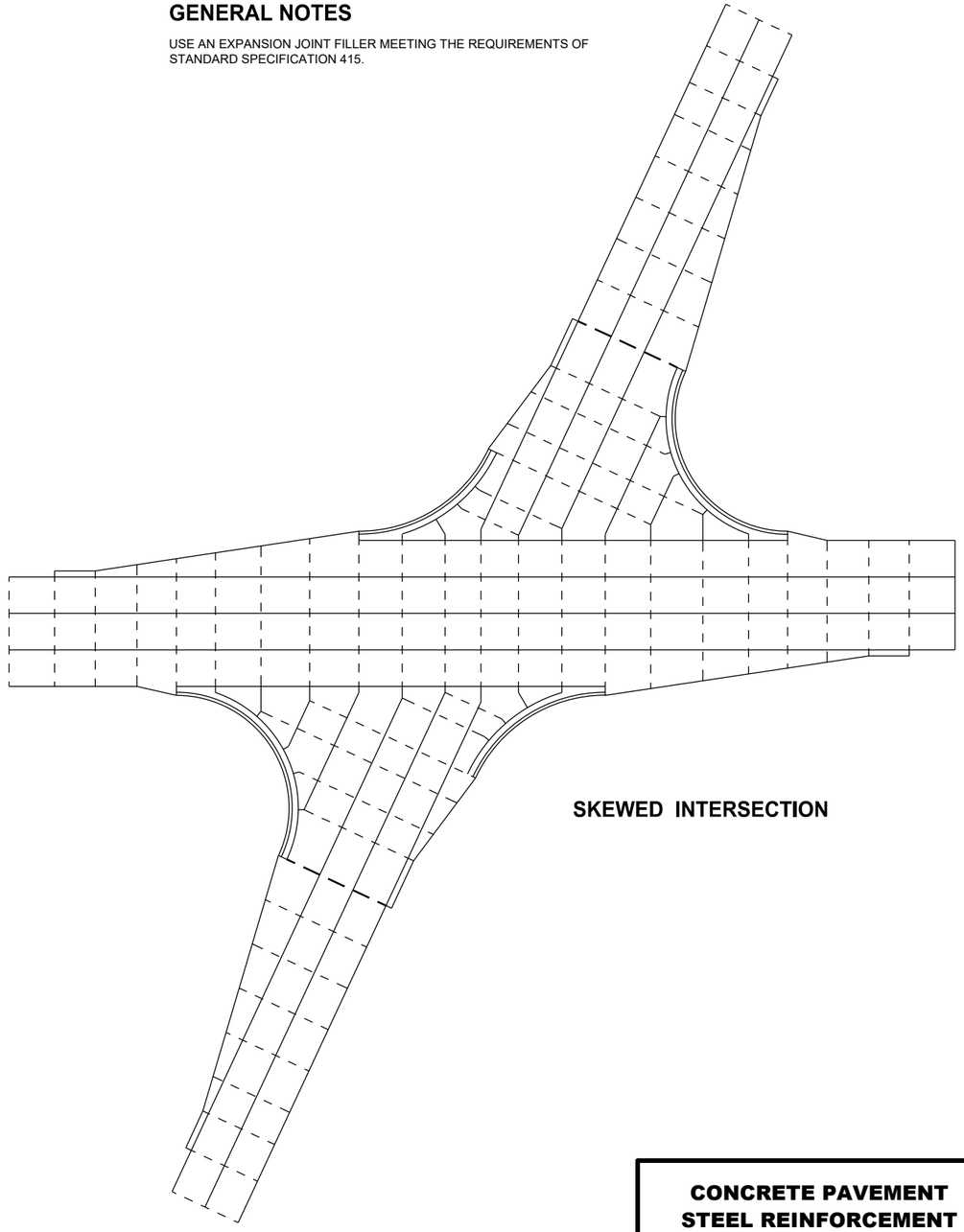
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

6

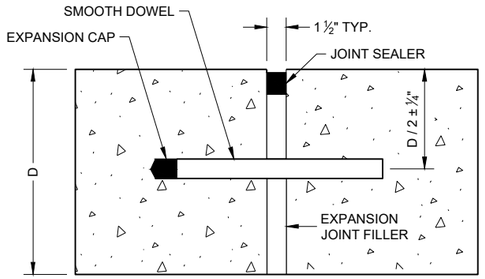
SDD 13C18 - 08b

CONCRETE PAVEMENT STEEL REINFORCEMENT

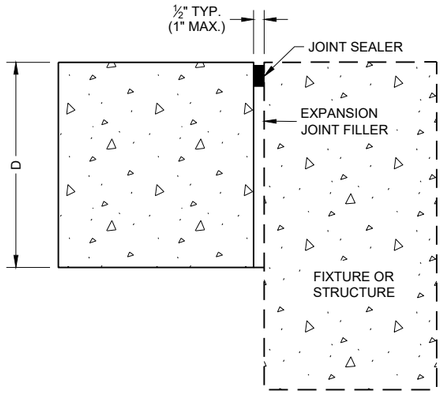
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 13C18 - 08b



DOWELED TRANSVERSE (1)



UNTIED - LONGITUDINAL

EXPANSION JOINTS

TIE BAR TABLE

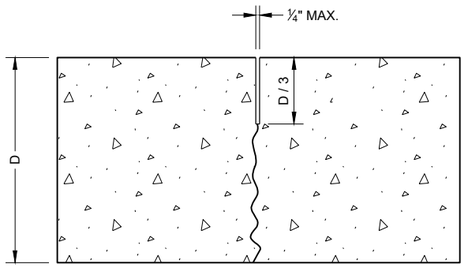
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

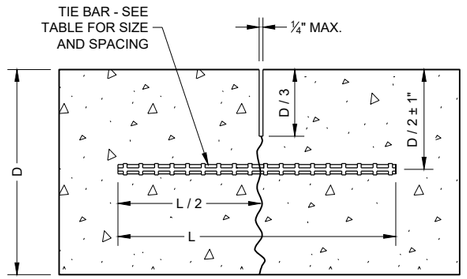
** CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

GENERAL NOTES

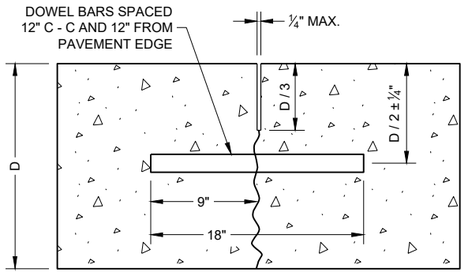
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATETHE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH SDD 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM 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

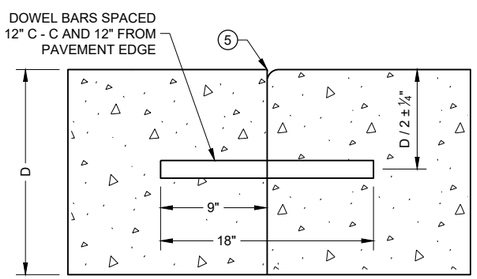


TIED LONGITUDINAL

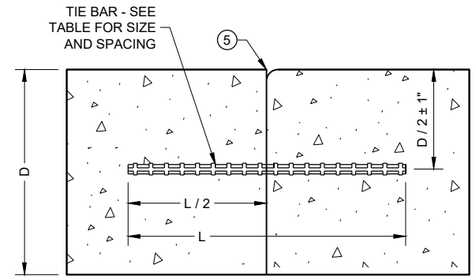


DOWELED TRANSVERSE

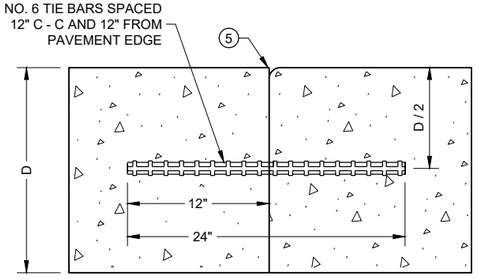
CONTRACTION JOINTS (2)



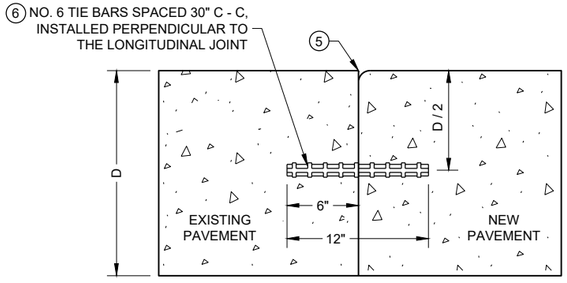
DOWELED TRANSVERSE (3)



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

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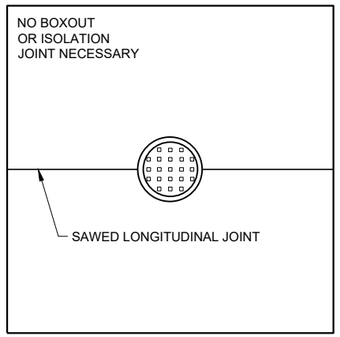
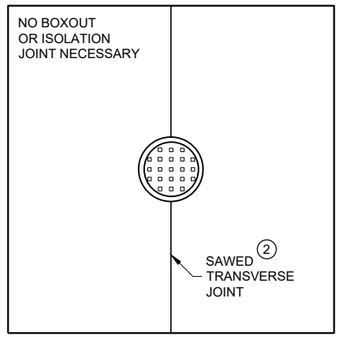
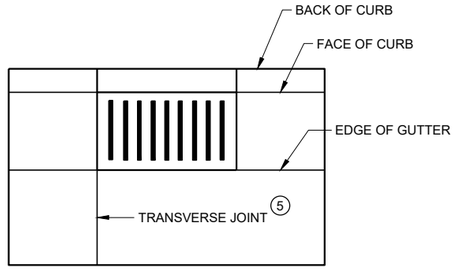
SDD 13C18 - 08c



MANHOLE WITH LONGITUDINAL JOINT



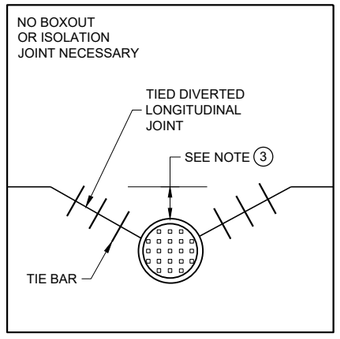
MANHOLE WITH TRANSVERSE JOINT



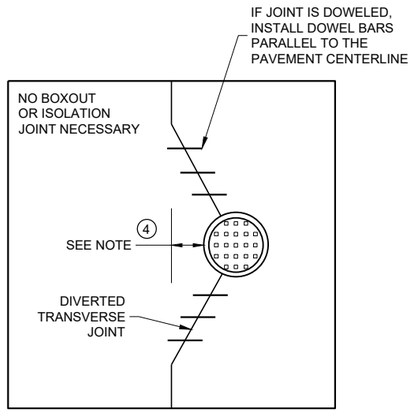
INLET WITH TRANSVERSE JOINT

GENERAL NOTES

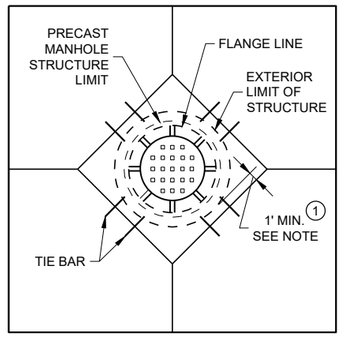
1. USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1 FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
2. ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
3. IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF 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 SUPERVISO

FHWA

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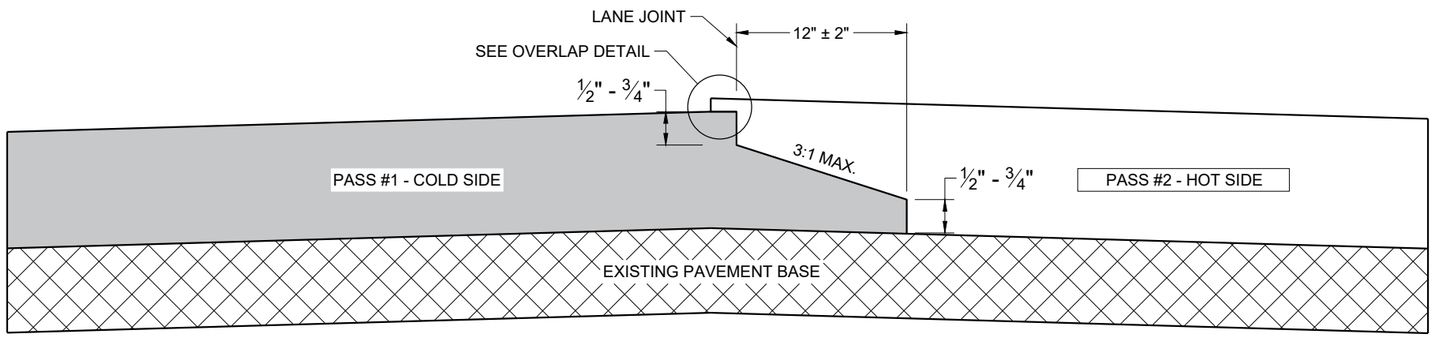
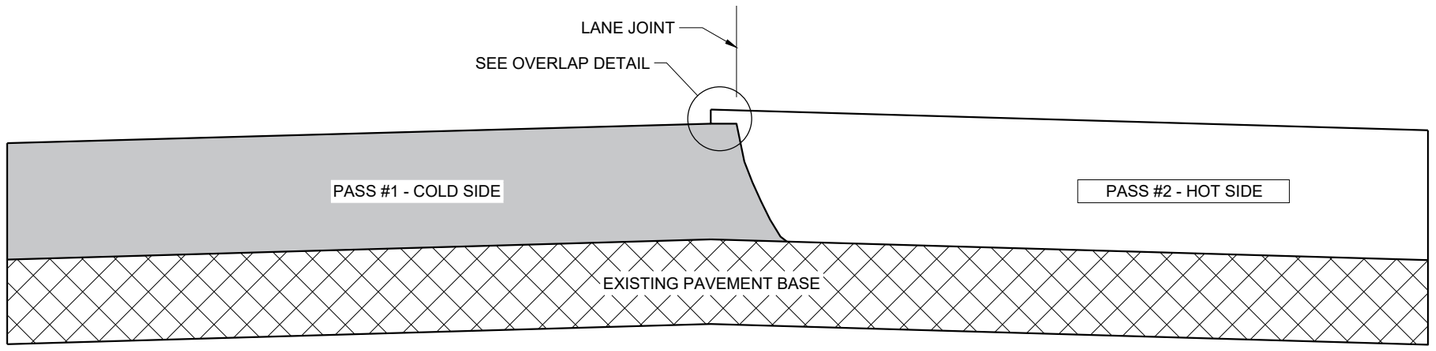
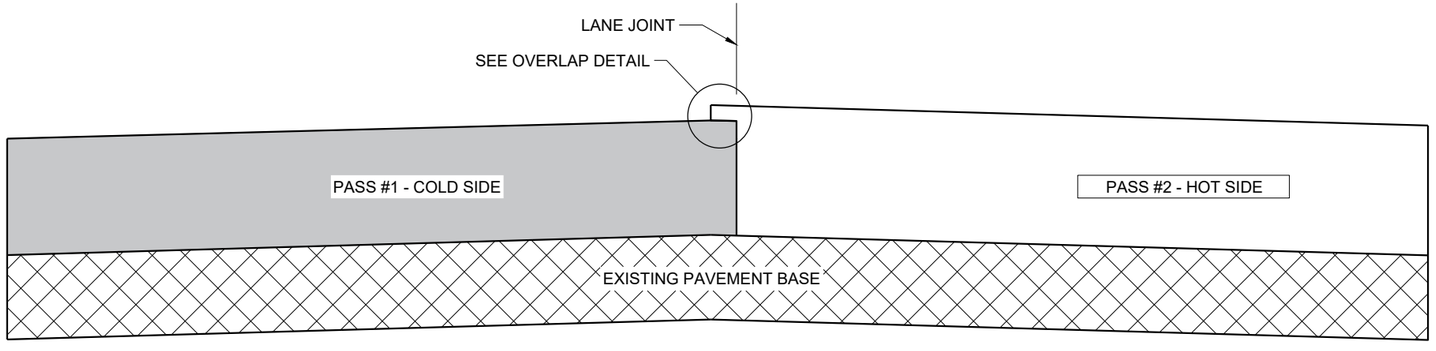
SDD13C18 - 08d



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

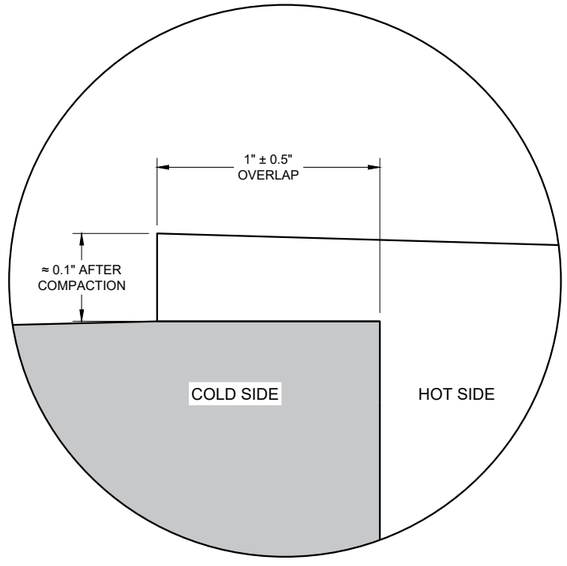
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

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

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

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

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



OVERLAP DETAIL (TYPICAL)

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HMA LONGITUDINAL JOINTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2020
DATE

/S/ Steven Hefel
HMA PAVEMENT ENGIN

FHWA

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

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

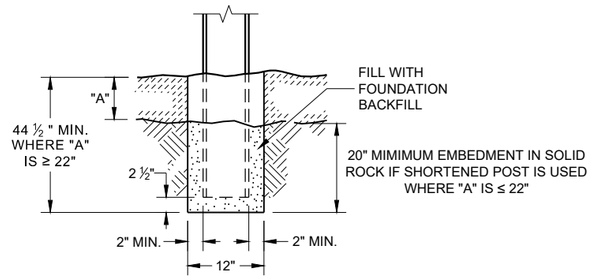
(3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL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

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

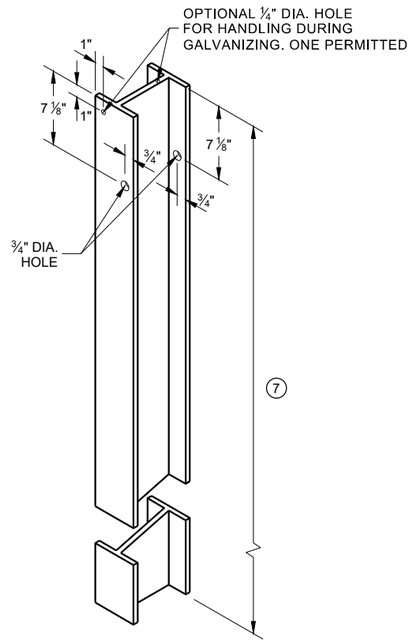
(5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ±1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 ¾" TO 32".

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

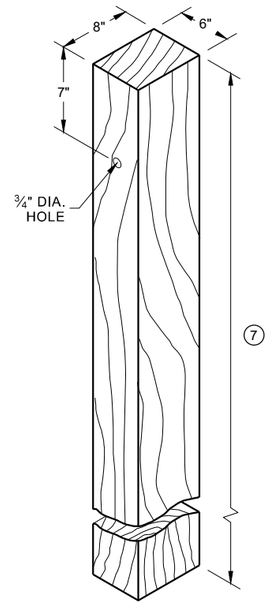
(7) TOTAL POST LENGTH FOR TYPE K IS 7' - 0".
TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' - 0".



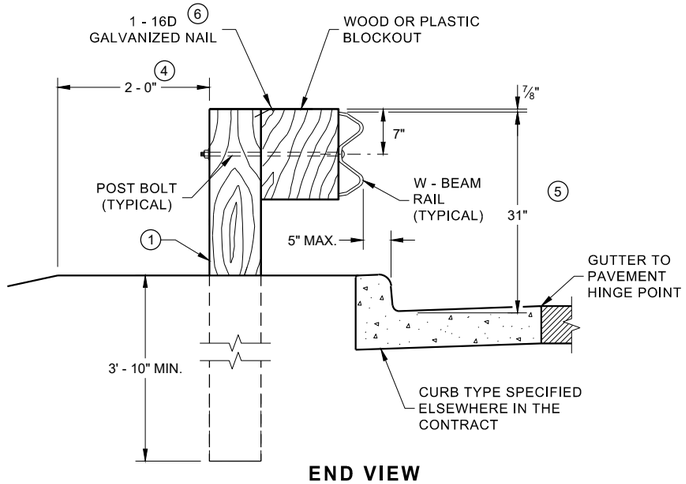
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (3)



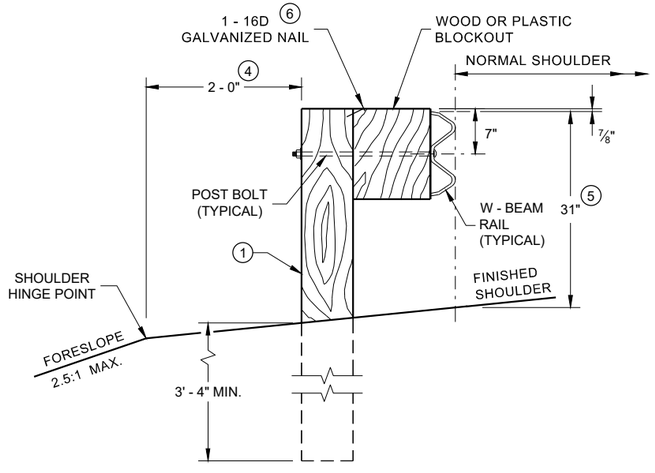
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



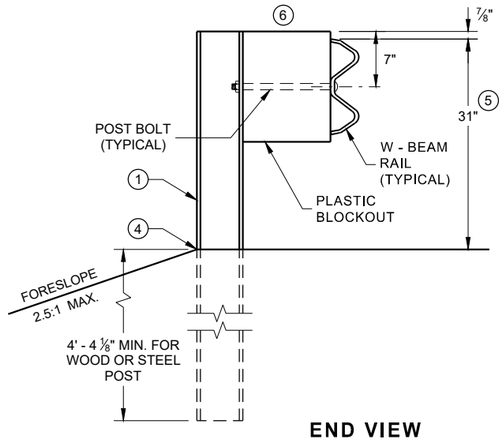
WOOD POST (6" X 8") NOMINAL (1)



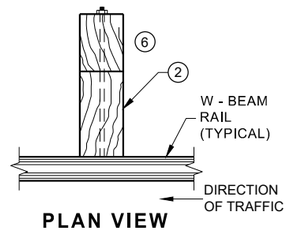
END VIEW
LOCATED ALONG A CURBED ROADWAY



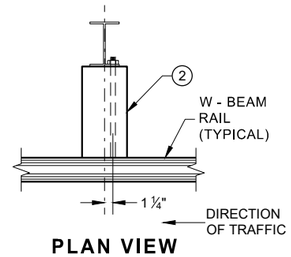
END VIEW
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



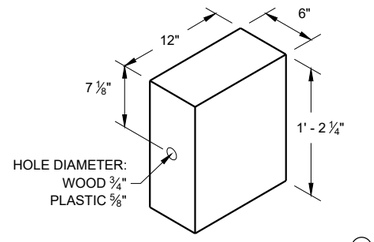
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



PLAN VIEW
STEEL POST, PLASTIC BLOCKOUT & BEAM



WOOD OR PLASTIC BLOCKOUT (2)

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B42 - 07a

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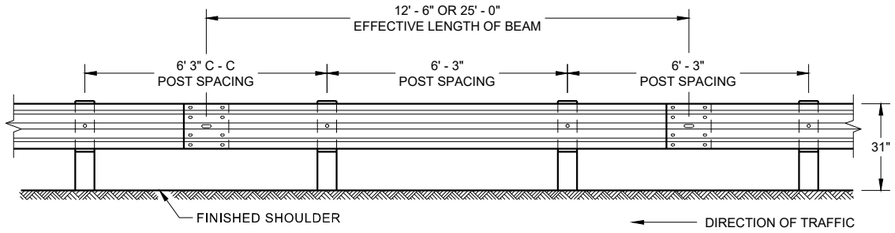
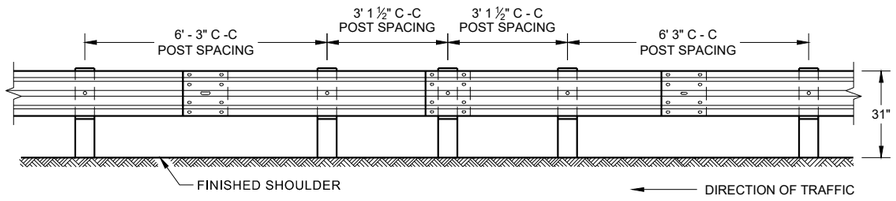
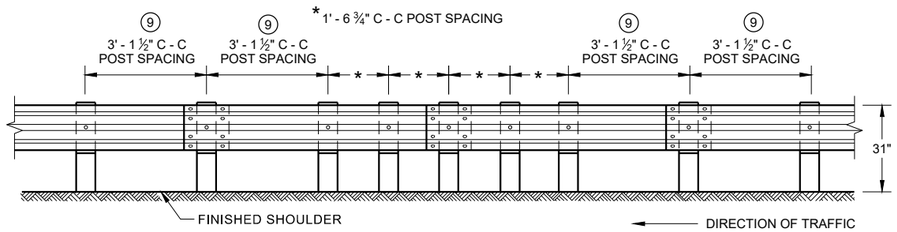


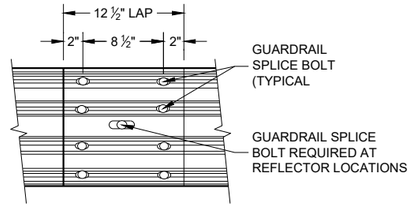
FRONT VIEW
POST SPACING STANDARD INSTALLATION



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



FRONT VIEW
QUARTER POST SPACING (QS)



FRONT VIEW
MID-SPAN BEAM SPLICE

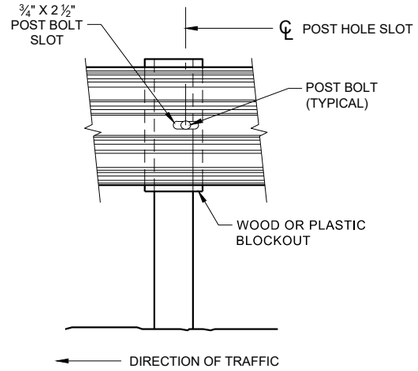
GENERAL NOTES

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

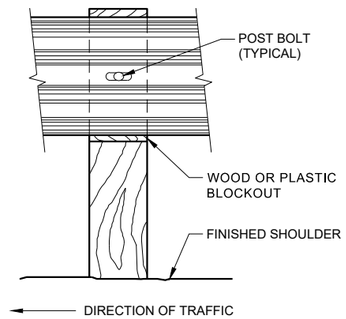
⑨ 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

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

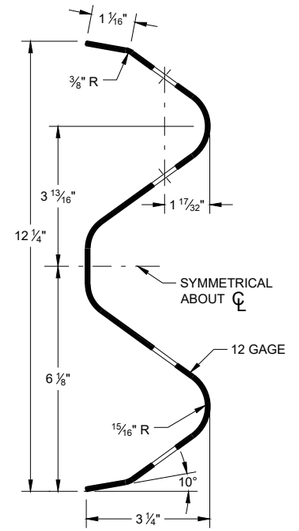
GUARD RAIL SPLICE BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



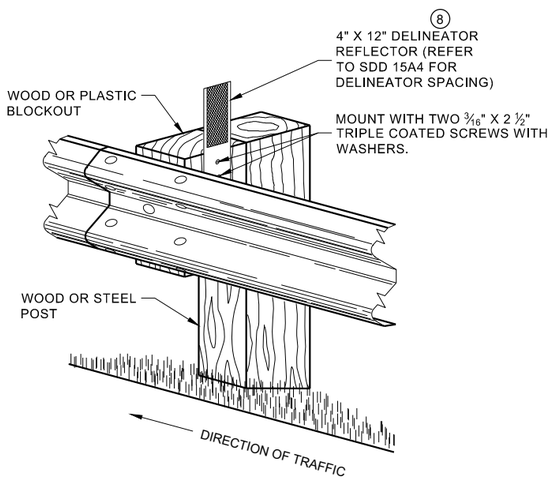
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



ONE SIDED REFLECTOR DETAIL
AND TYPICAL INSTALLATION

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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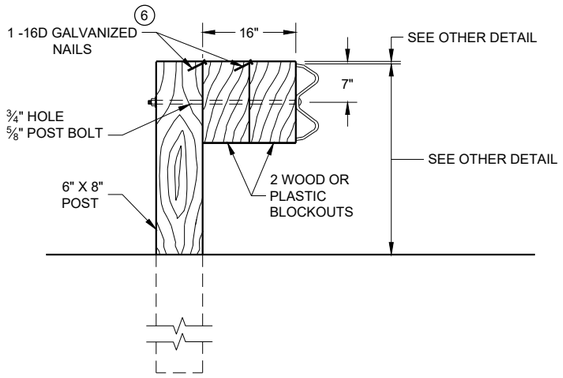
SDD 14B42 - 07b

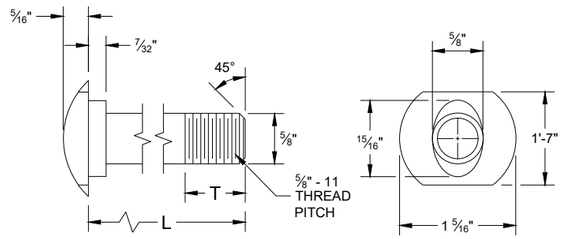


DETAIL FOR 16" BLOCKOUT DEPTH

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

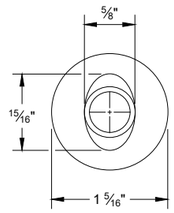
NOTE:

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

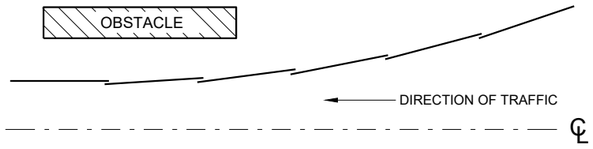


POST BOLT TABLE

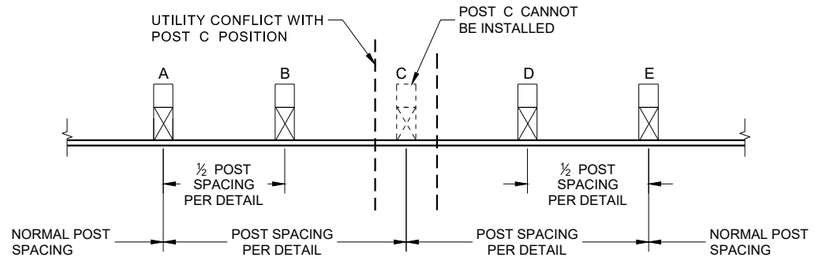
L	T (MIN.)
1 ¼"	1 ⅛"
2"	1 ¾"
10"	4"
14"	4 1⁄16"
18"	4"
21"	4 1⁄16"
25"	4"



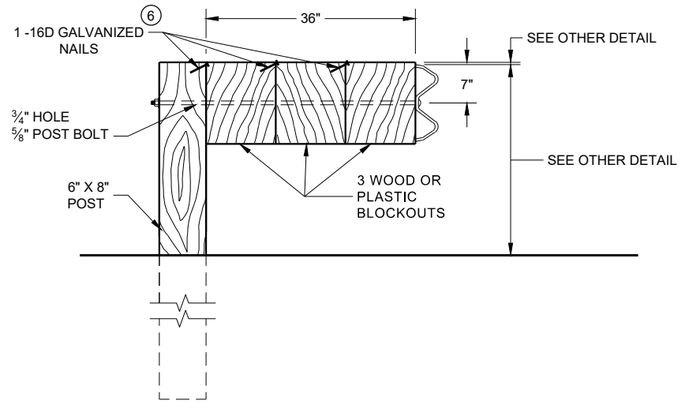
ALTERNATE BOLT HEAD



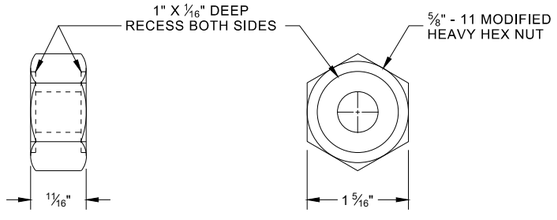
PLAN VIEW
BEAM LAPPING DETAIL



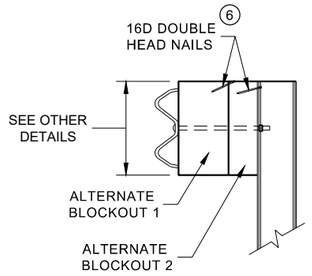
POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



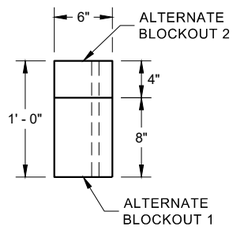
DETAIL FOR 36" BLOCKOUT DEPTH



POST BOLT, SPLICE BOLT AND RECESS NUT



SIDE VIEW



PLAN VIEW

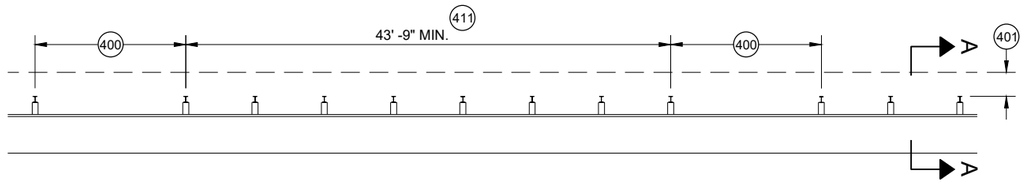
ALTERNATE WOOD BLOCKOUT DETAIL

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

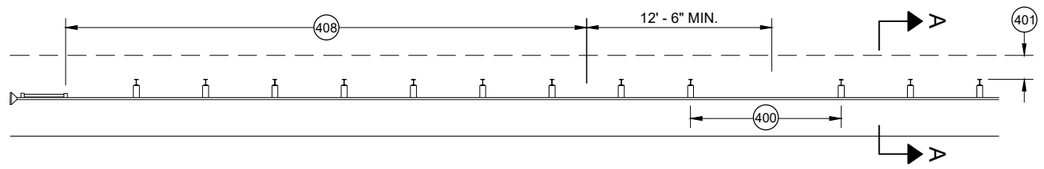
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

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

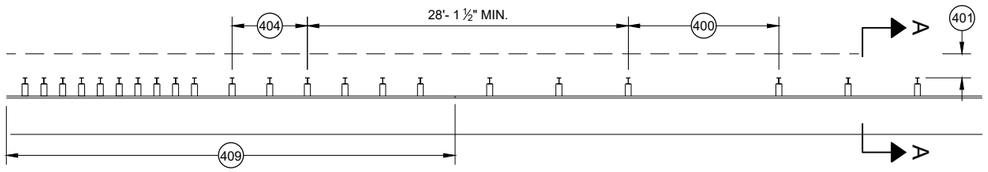
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL



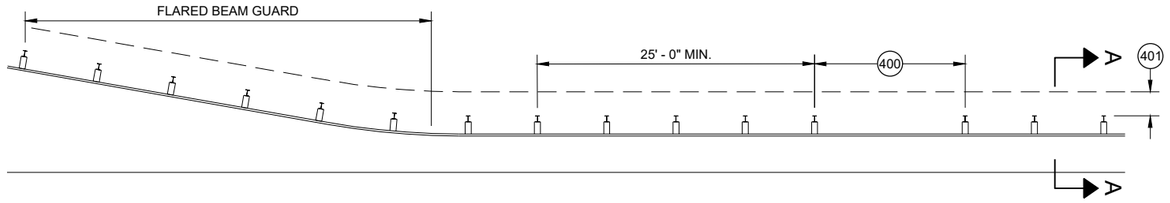
MISSING POST IN MGS GUARDRAIL



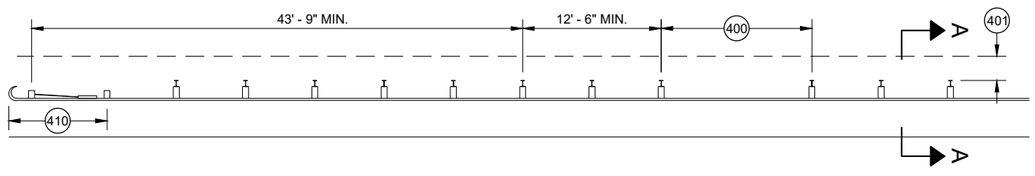
MISSING POST IN MGS GUARDRAIL NEAR EAT



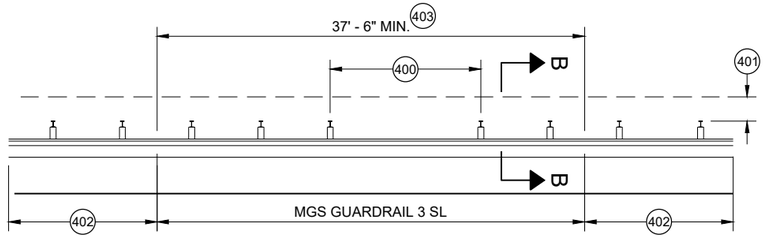
MISSING POST IN MGS GUARDRAIL NEAR AN APPROACH TRANSITION



MISSING POST IN MGS GUARDRAIL NEAR FLARED BEAM GUARD

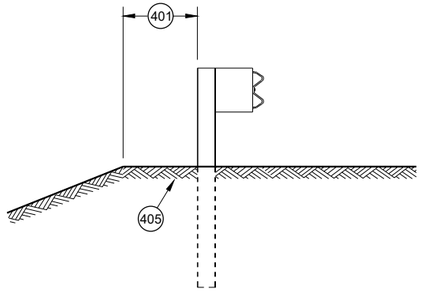


MISSING POST IN MGS GUARDRAIL NEAR A TYPE 2 END TERMINAL

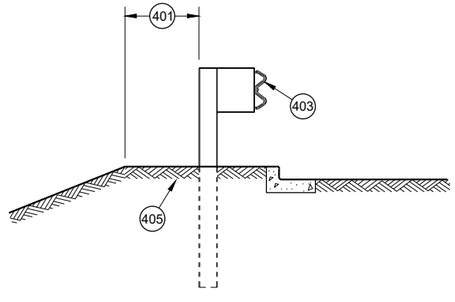


MISSING POST IN SHORT SPAN MGS GUARDRAIL NEAR CURB (SL) 407

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



SECTION A - A 406



SECTION B - B 406

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

6

SDD 14B42 - 07d

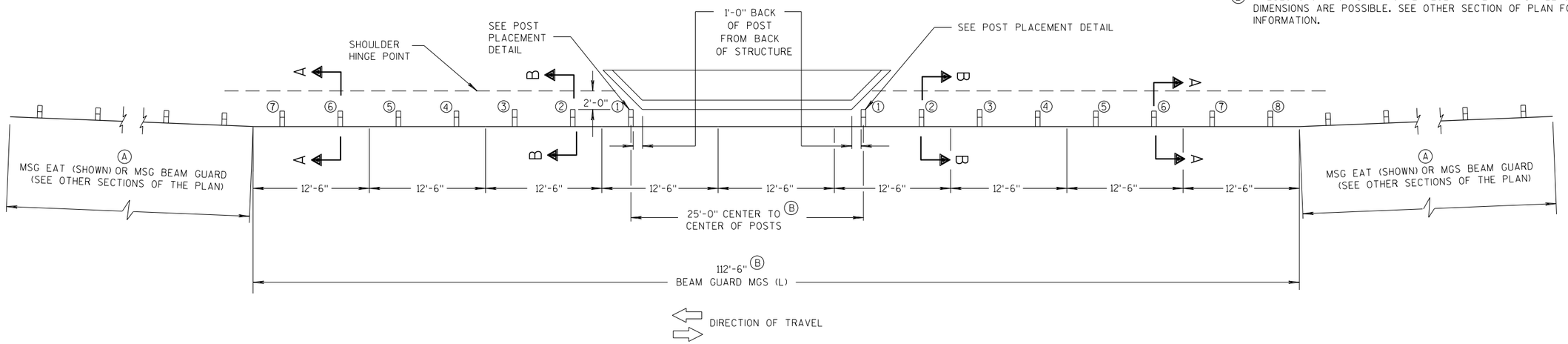
GENERAL NOTES

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

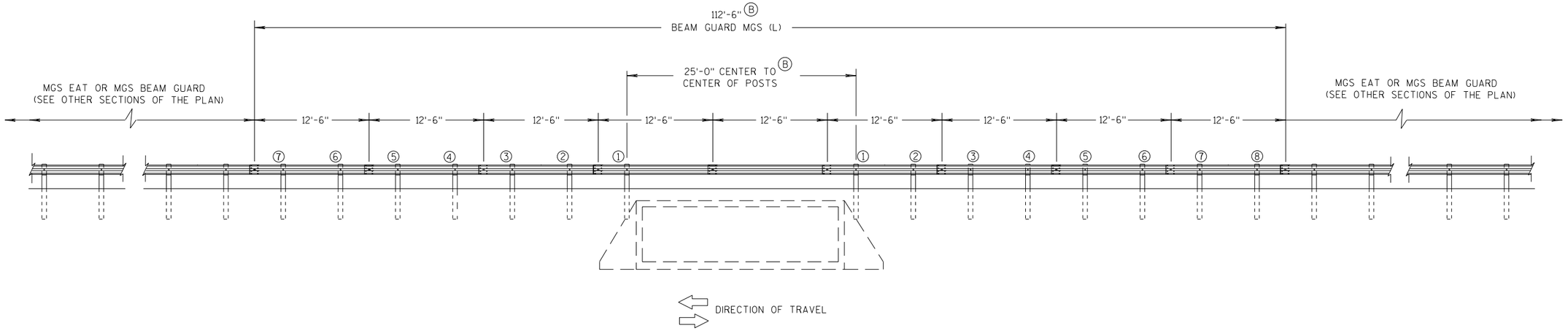
SEE SDD 14 B 42 FOR MORE DETAILS.

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

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



PLAN VIEW



ELEVATION VIEW

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

MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
S.D.D. 14 B 43-4a

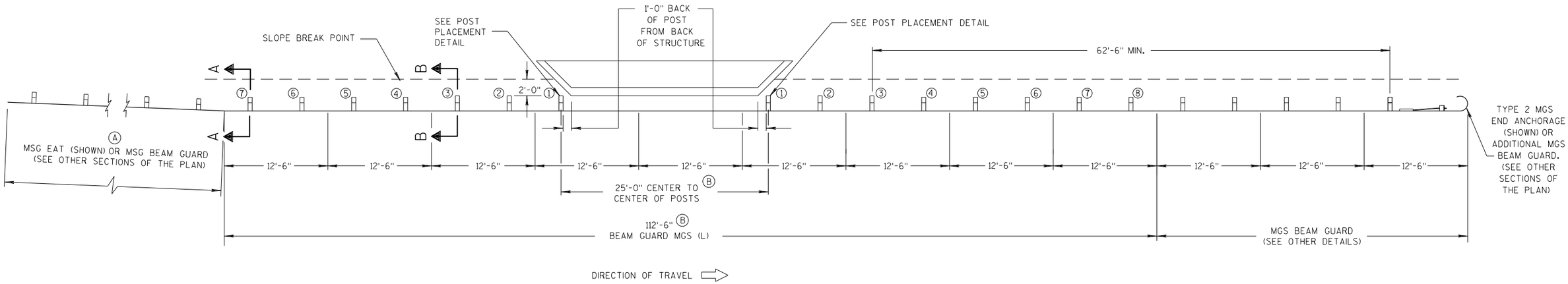
GENERAL NOTES

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

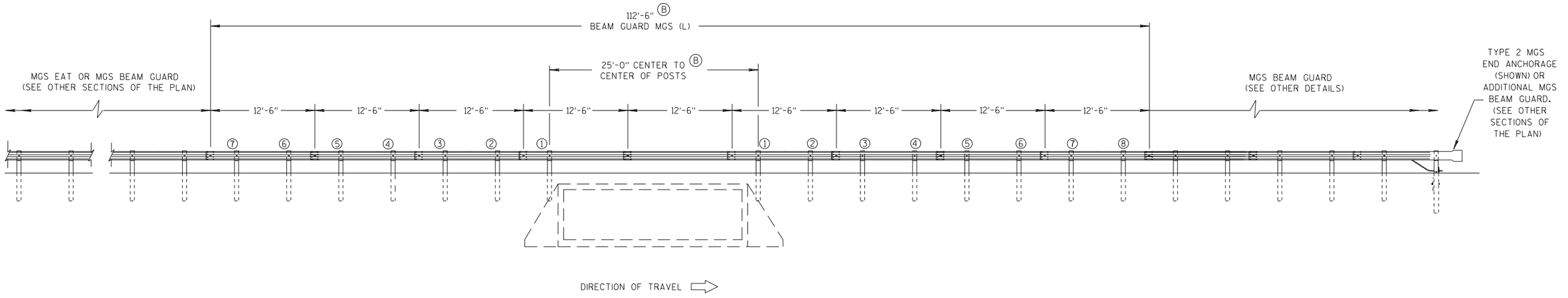
SEE SDD 14 B 42 FOR MORE DETAILS.

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

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



PLAN VIEW



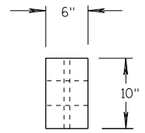
ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L) ONE-WAY TRAFFIC

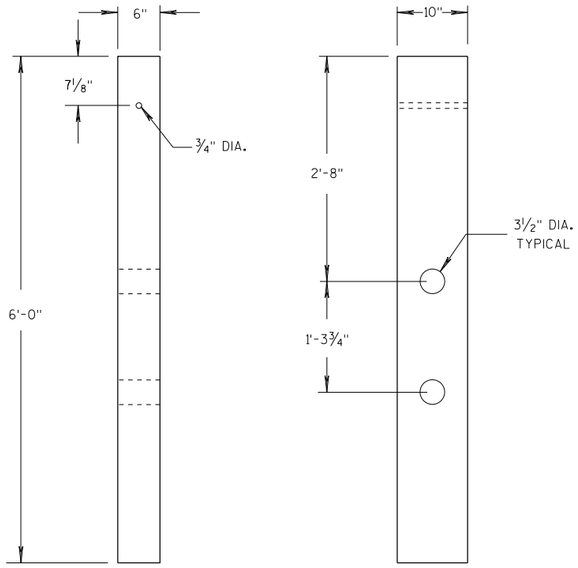
MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	283

6

S.D.D. 14 B 43-4b

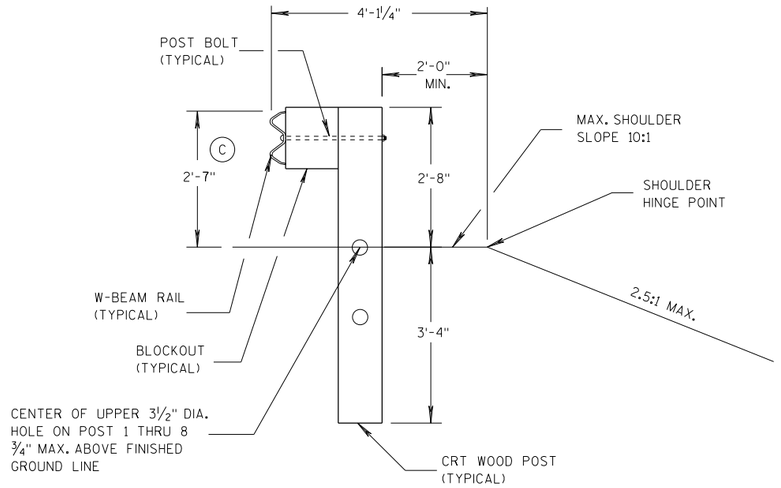


PLAN VIEW



FRONT VIEW SIDE VIEW

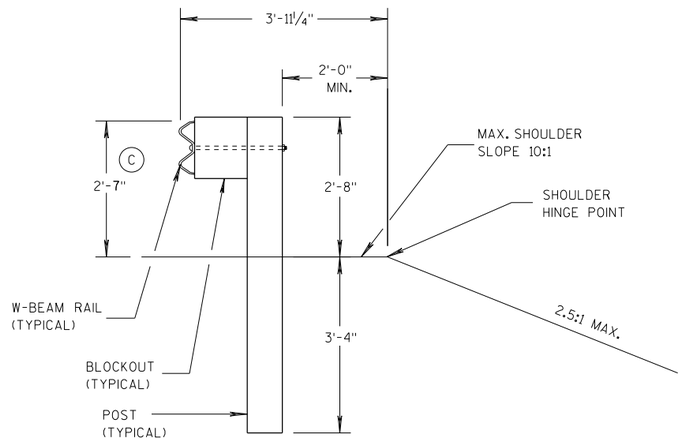
CRT WOOD POST



SECTION B-B

POSTS NO. 1-3

SEE OTHER DETAILS



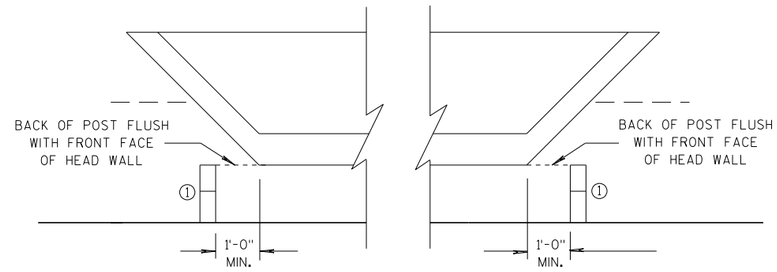
SECTION A-A

POSTS NO. 4-8

SEE OTHER DETAILS

GENERAL NOTES

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



POST PLACEMENT DETAIL

MIDWEST GUARDRAIL SYSTEM
LONG SPAN MGS (L)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
07/2018
DATE
FHWA

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT ENGINEER

284

NT

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S.D.D. 14 B 43-4c

6

S.D.D. 14 B 43-4c

GENERAL NOTES

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

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

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

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

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

DIMENSIONS MAY VARY, MANUFACTURER'S INFORMATION.

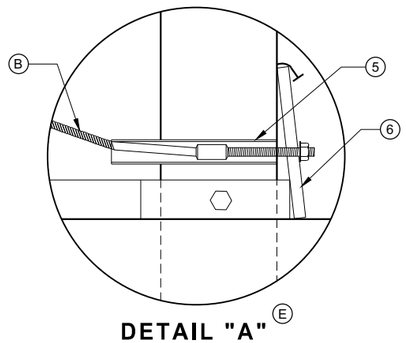
SEE SDD 14B42 FOR MORE INFORMATION.

* DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

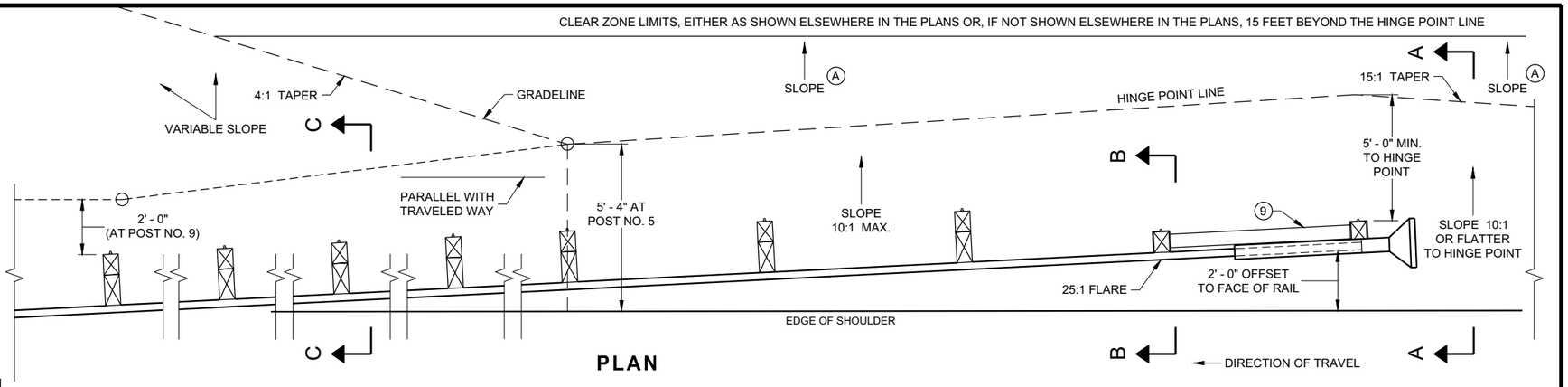
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

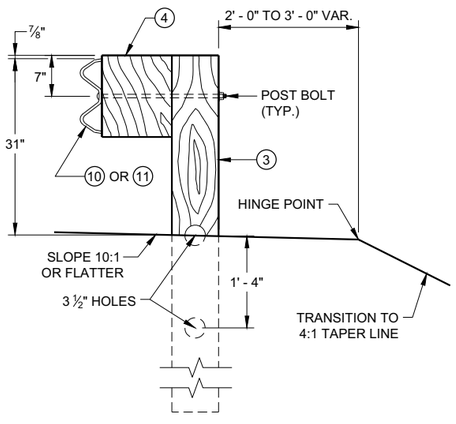
SEE MANUFACTURER'S DRAWING FOR SPLICE LOCATION, HARDWARE DIMENSIONS AND INSTALLATION INSTRUCTIONS.

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

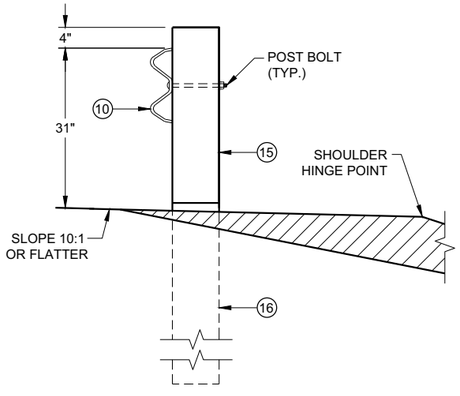


DETAIL "A" (E)

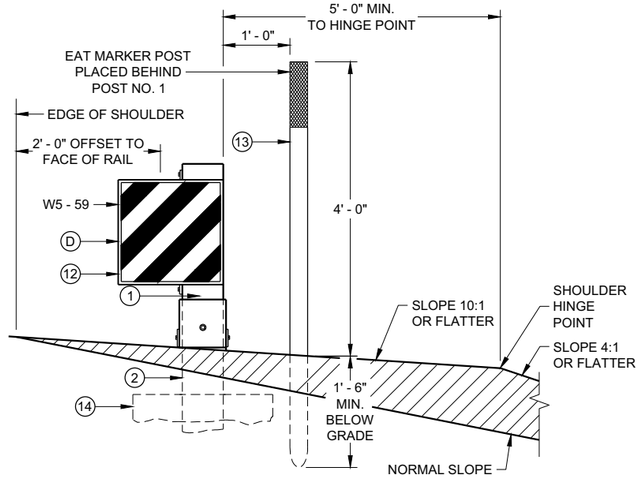




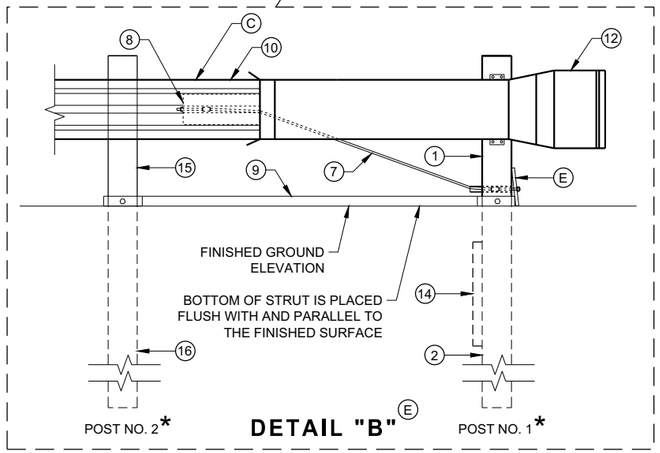
SECTION C - C
TYPICAL AT POST NOS. 3 - 9



SECTION B - B
TYPICAL AT POST NO. 2*



SECTION A - A
TYPICAL AT POST NO. 1*



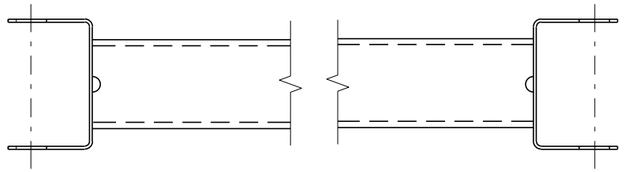
DETAIL "B" (E)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B44 - 04a

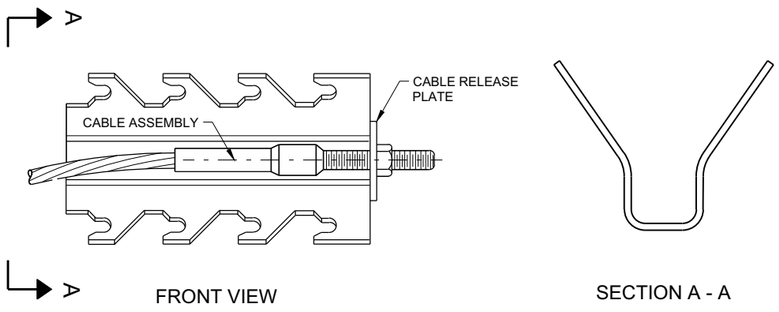
SDD 14B44 - 04a



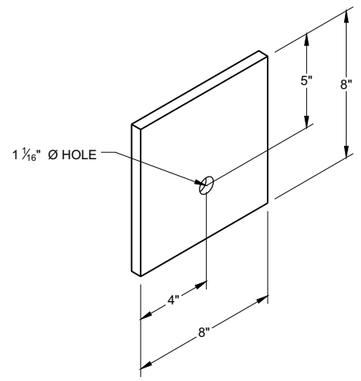
GENERIC GROUND STRUT (9) (E)

BILL OF MATERIALS

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



GENERIC ANCHOR CABLE BOX (9) (E)



BEARING PLATE (6) (E)

6

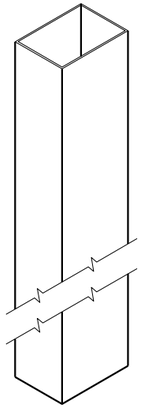
6

SDD 14B44 - 04b

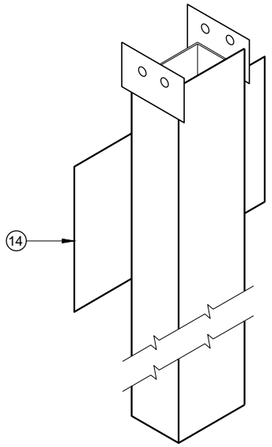
SDD 14B44 - 04b

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

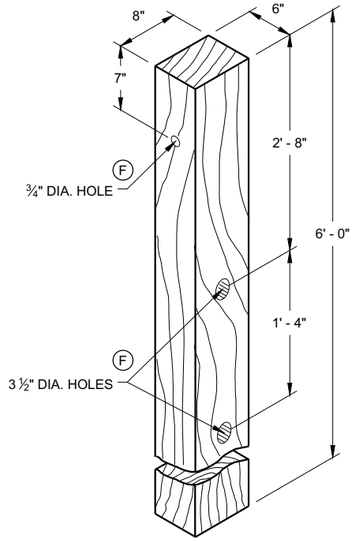
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



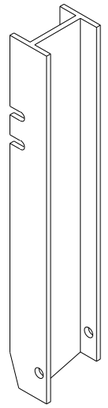
UPPER POST NO. 1 (1) (E)



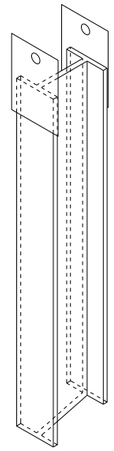
LOWER POST NO. 1 (2) (E)



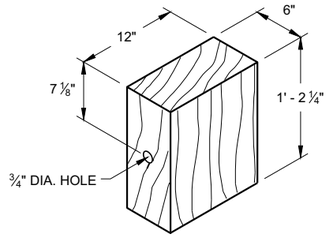
WOOD CRT POST (3) (E)
POSTS NUMBER 3-9



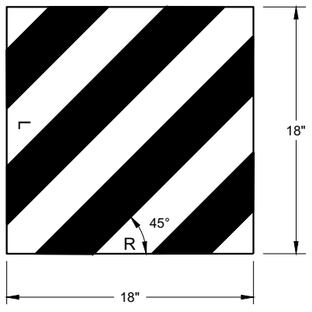
UPPER POST NO. 2 (15) (E)



LOWER POST NO. 2 (16) (E)

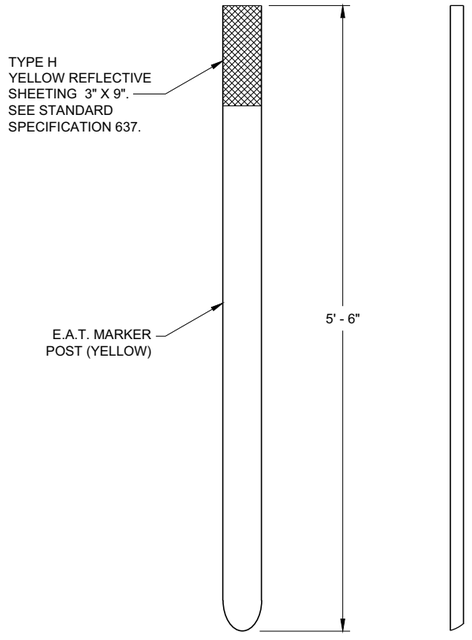


WOOD BLOCKOUT (4)
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



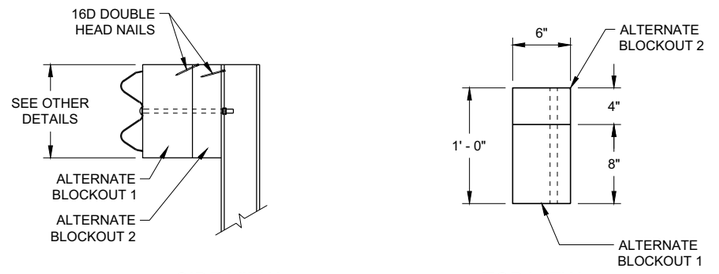
W5 - 59

REFLECTIVE SHEETING DETAIL (E)



FRONT VIEW SIDE VIEW

E.A.T. MARKER POST (13)



SIDE VIEW TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

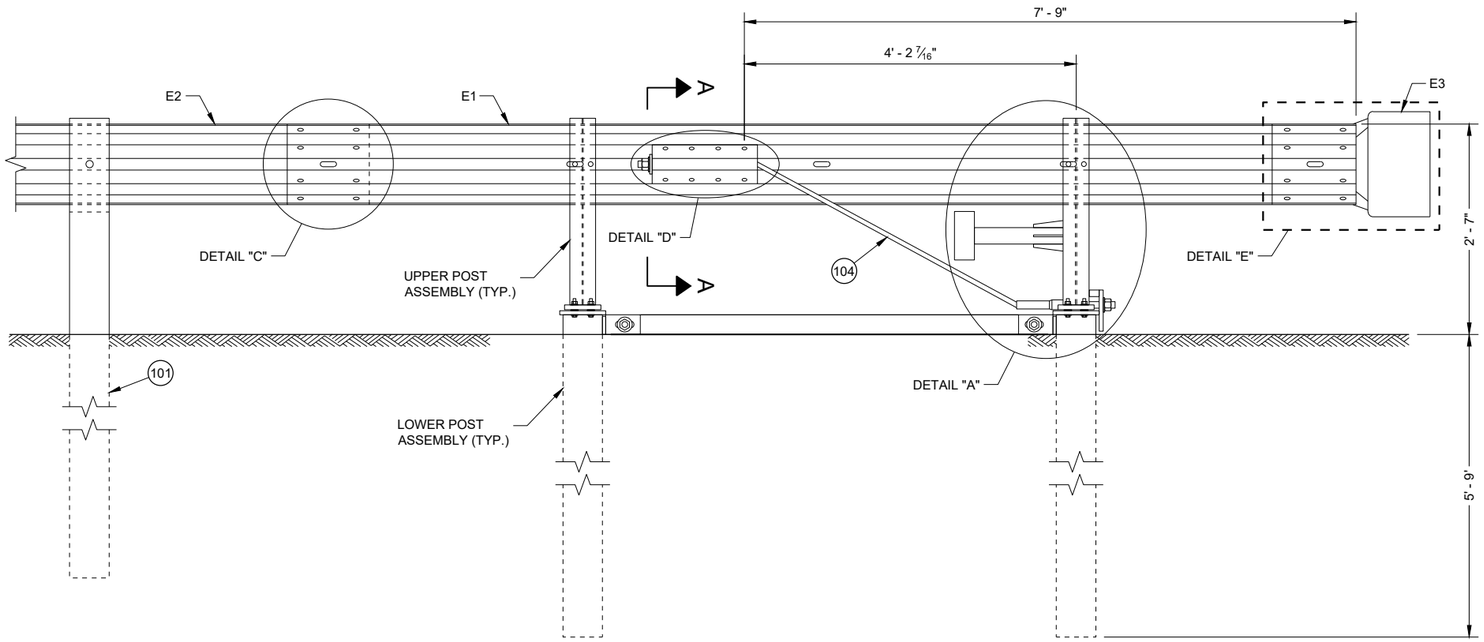
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

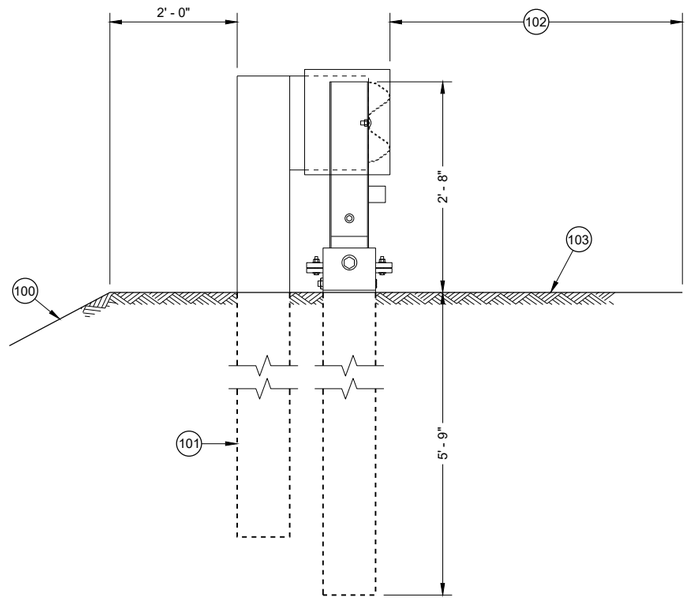
FHWA

6

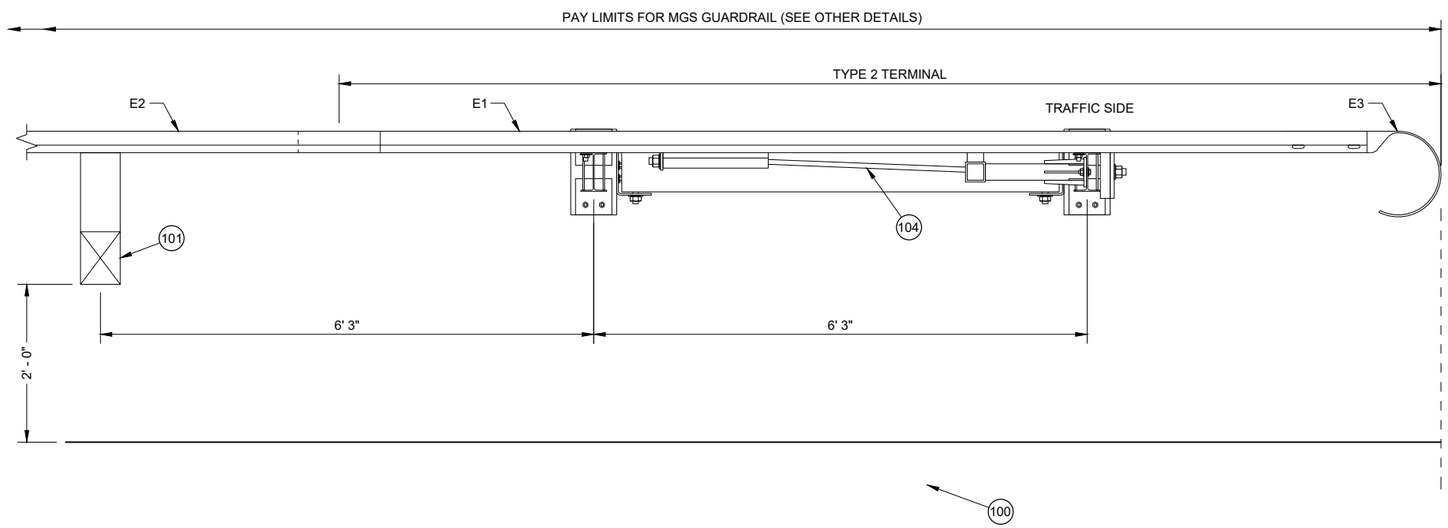
SDD 14B44 - 04c



BACK VIEW
TYPE 2 TERMINAL



SIDE VIEW
TYPE 2 TERMINAL



TOP VIEW
TYPE 2 TERMINAL

GENERAL NOTES

(100) MAXIMUM SLOPE IS 2.5:1.

(101) SEE SDD 14B42 FOR MORE INFORMATION.

(102) SHOULDER

(103) MAXIMUM SLOPE IS 10:1.

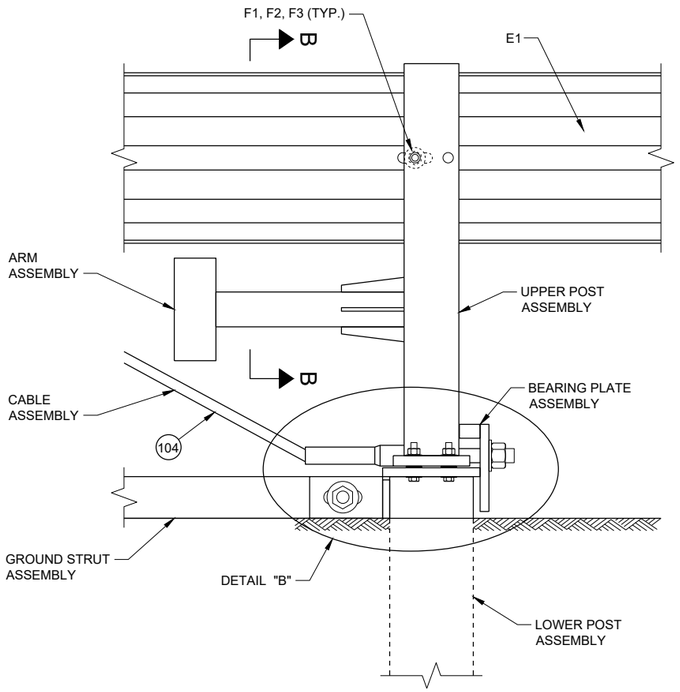
(104) AFTER ASSEMBLY, CABLE IS TO BE TIGHTENED WITHOUT TWISTING THE CABLE.

MIDWEST GUARDRAIL SYSTEM (MGS)
TYPE 2 TERMINAL

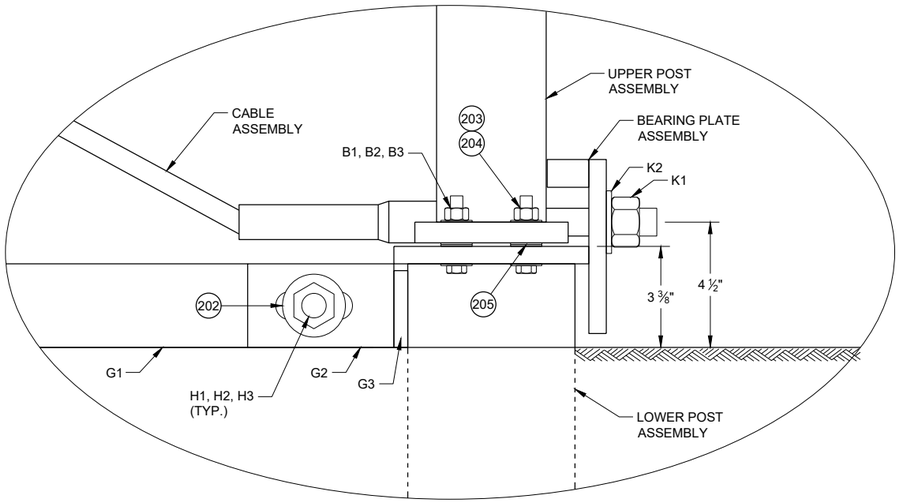
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 14B47 - 05a



DETAIL "A"



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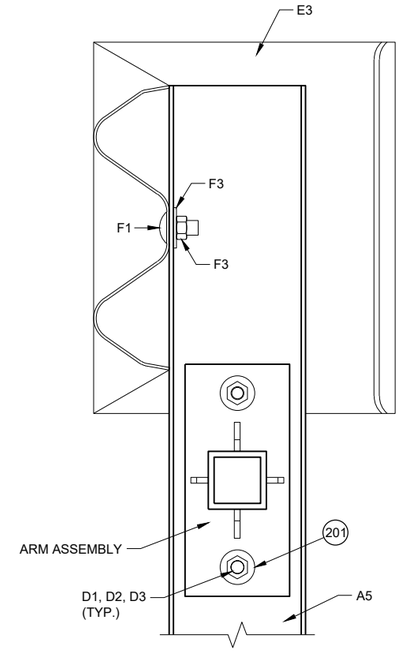
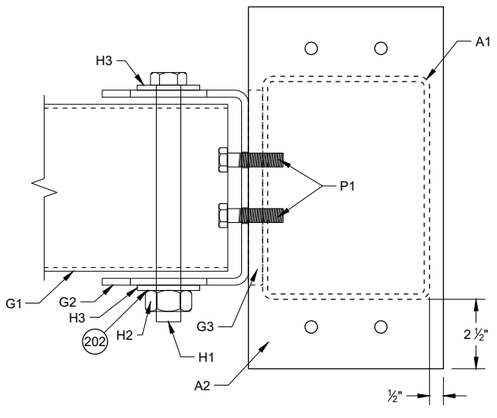
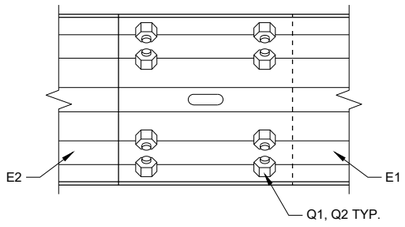


SECTION B - B



TOP VIEW

GROUND STRUT CONNECTION DETAIL



DETAIL "C"

GENERAL NOTES

200 INSTALL ONE WASHER UNDER BOLT HEAD AND RAIL AND ON WASHER BETWEEN NUT AND ANCHOR BRACKET ASSEMBLY.

201 INSTALL ONE WASHER UNDER BOLT HEAD AND UPPER POST ASSEMBLY AND ONE WASHER BETWEEN NUT AND ARM PLATE.

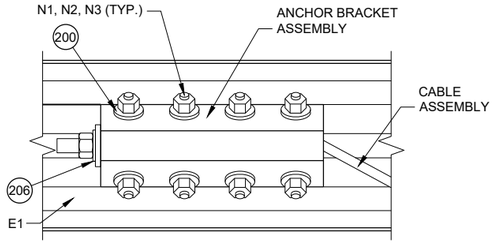
202 INSTALL ONE WASHER UNDER BOLT HEAD AND GROUND STRUT CONNECTOR AND ONE WASHER BETWEEN NUT AND GROUND STRUT CONNECTOR.

203 INSTALL ONE WASHER UNDER BOLT HEAD AND LOWER POST ASSEMBLY AND ONE WASHER BETWEEN NUT AND UPPER POST ASSEMBLY.

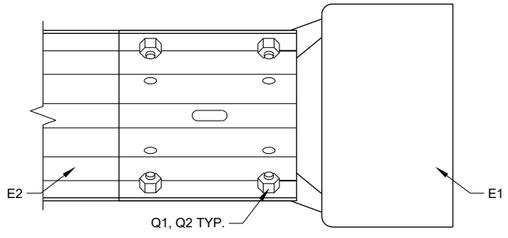
204 TORQUE VALUE IS BETWEEN 60 - 75 FT-LB.

205 TWO WASHERS BETWEEN UPPER AND LOWER POST ASSEMBLY.

206 INSTALL ONE WASHER BETWEEN NUT AND ANCHOR BRACKET ASSEMBLY.



DETAIL "D"



DETAIL "E"

MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

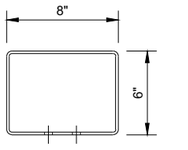
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

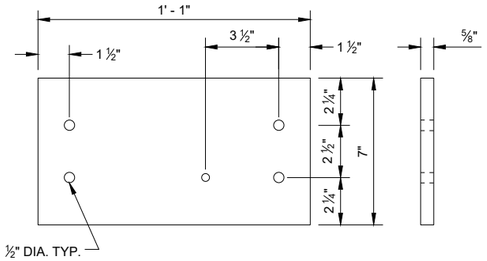
SDD 14B47 - 05b

GENERAL NOTES

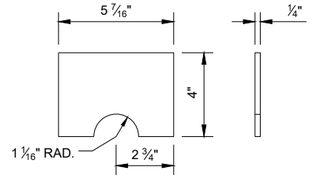
(300) TAP FOR 1/2" AFTER GALVANIZATION



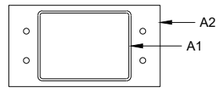
TOP VIEW



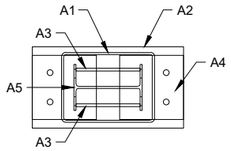
LOWER PLATE (A2)

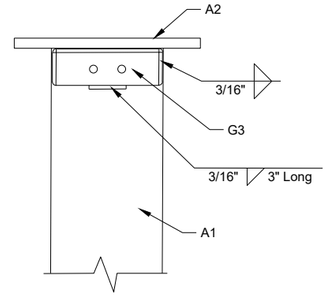


POST GUSSET (A3)

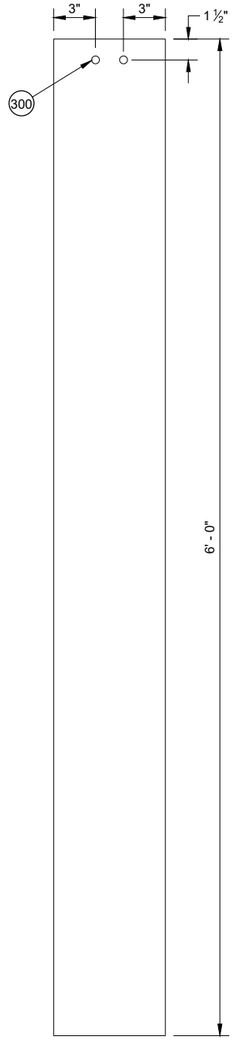


PLAN VIEW



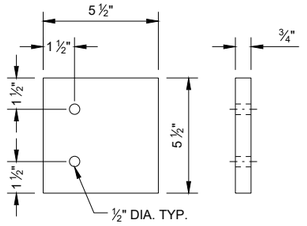


WELDING DETAIL
G3 AND A1

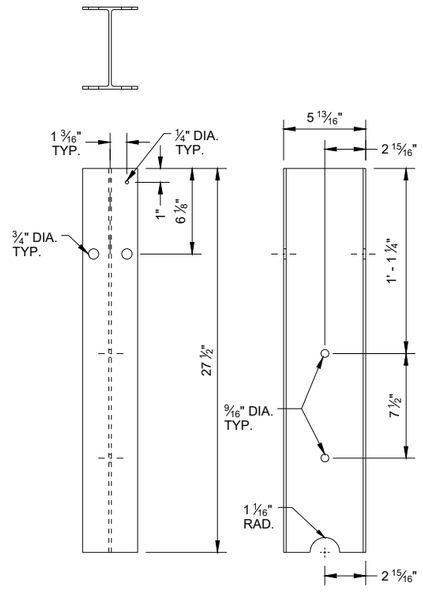


SIDE VIEW

FOUNDATION
TUBE (A1)

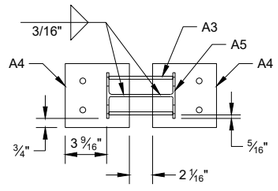


UPPER PLATE (A4)

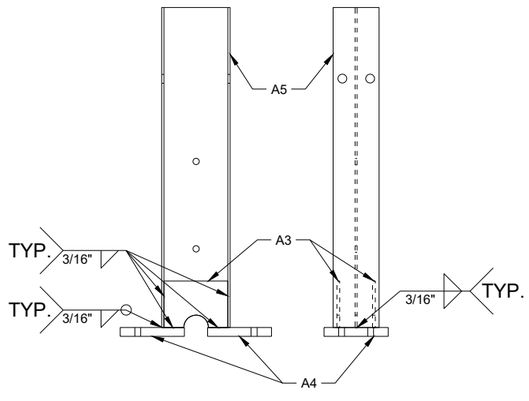


FRONT VIEW SIDE VIEW

TYPE 2 POST (A5)

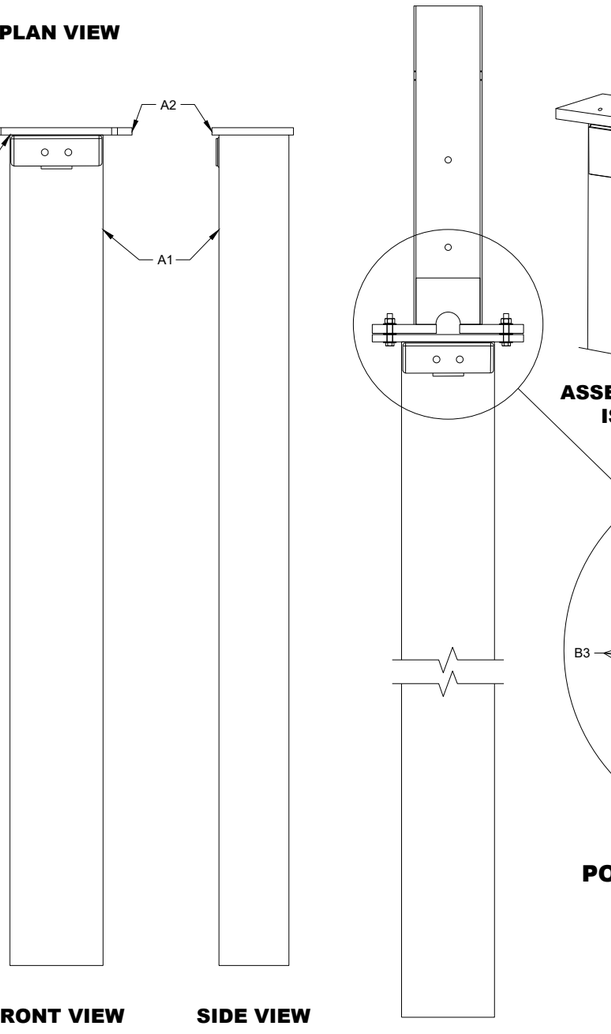


PLAN VIEW



SIDE VIEW FRONT VIEW

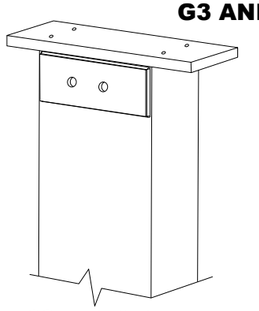
UPPER POST ASSEMBLY



FRONT VIEW SIDE VIEW

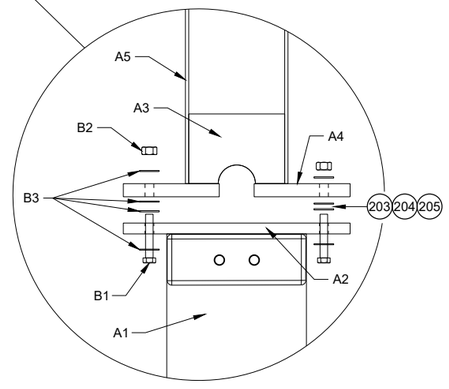
LOWER POST ASSEMBLY

ASSEMBLED POST



ASSEMBLY DETAIL
ISOMETRIC

A1



POST CONNECTION DETAIL

MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

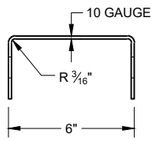
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

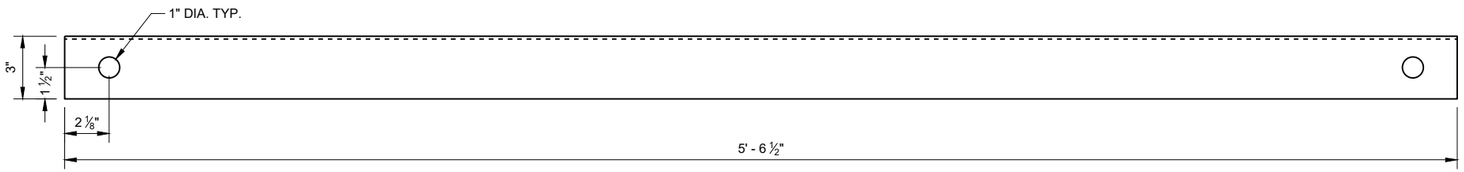
SDD14B47 - 05c

6

SDD14B47 - 05c

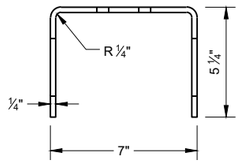


SIDE VIEW

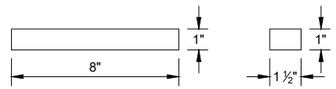


FRONT VIEW

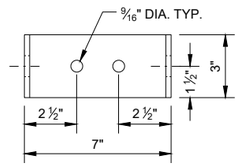
GROUND STRUT CHANNEL (G1)



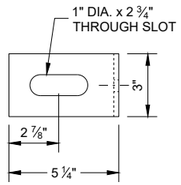
TOP VIEW



BEARING PLATE FLANGE (L2)

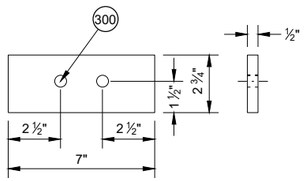


FRONT VIEW

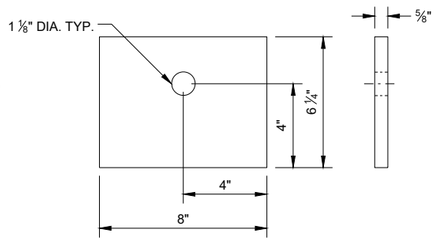


SIDE VIEW

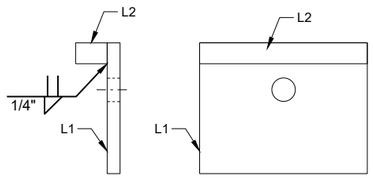
GROUND STRUT CONNECTOR (G2)



GROUND STRUT PLATE (G3)

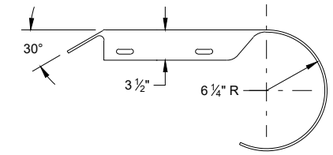


BEARING PLATE (L1)

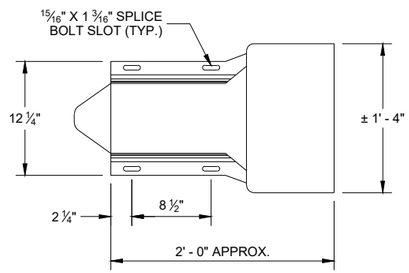


SIDE VIEW FRONT VIEW

BEARING PLATE ASSEMBLY

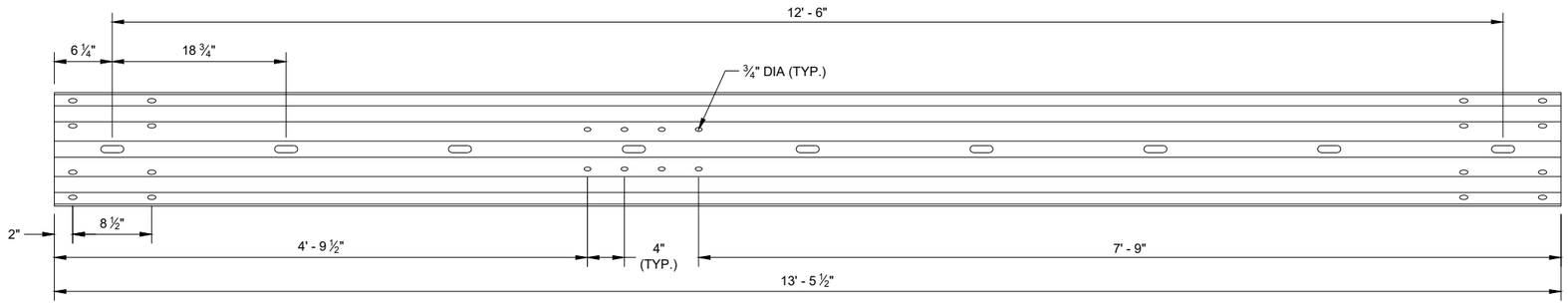


PLAN VIEW

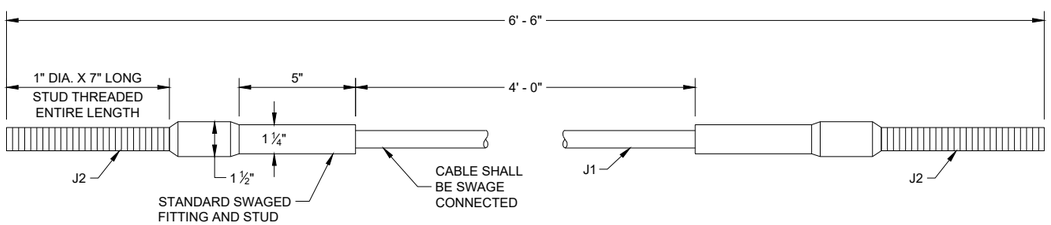


ELEVATION VIEW

ROUNDED BUFFER END (E3)



TYPE 2 GUARDRAIL (E1)



CABLE ASSEMBLY

6

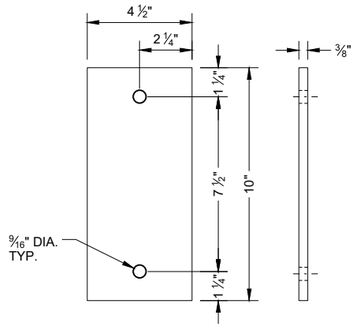
SDD 14B47 - 05d

MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

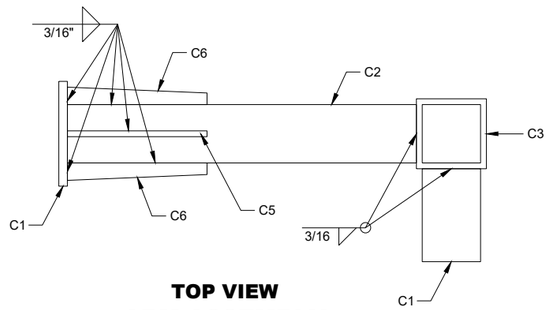
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

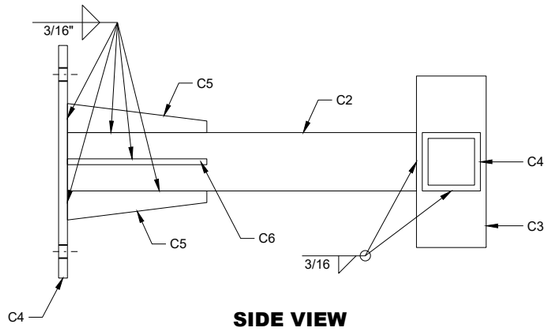
SDD 14B47 - 05d



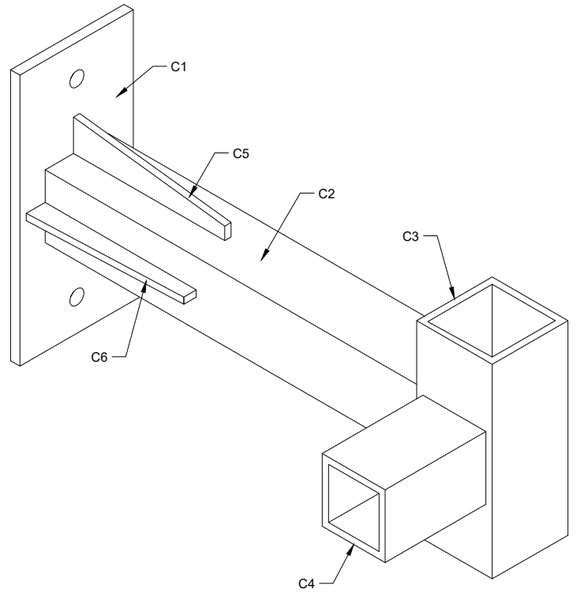
ARM PLATE (C1)



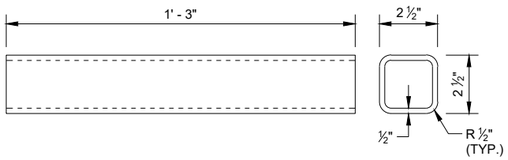
TOP VIEW
ARM ASSEMBLY



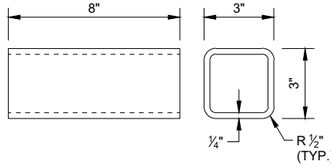
SIDE VIEW
ARM ASSEMBLY



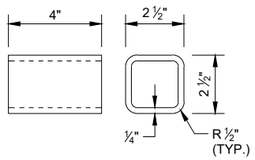
ISOMETRIC VIEW
ARM ASSEMBLY



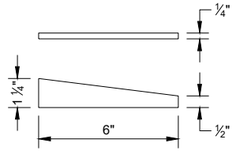
ARM TUBE 1 (C2)



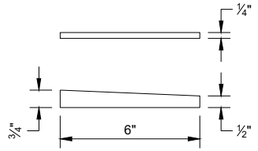
ARM TUBE 2 (C3)



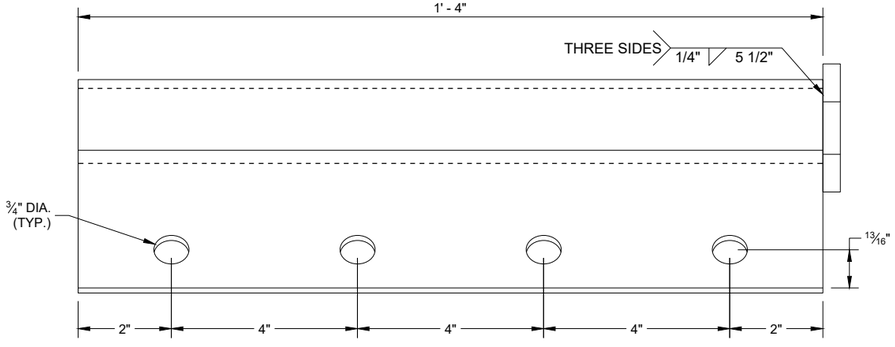
ARM TUBE 3 (C4)

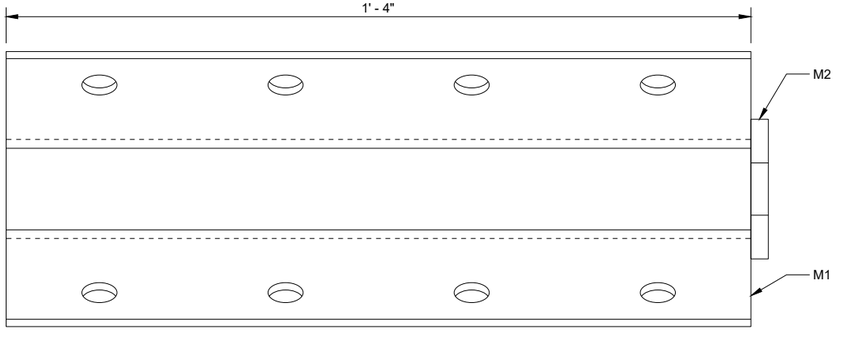


ARM GUSSET PLATE 1 (C5)

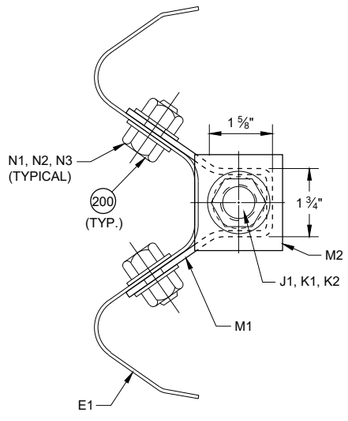


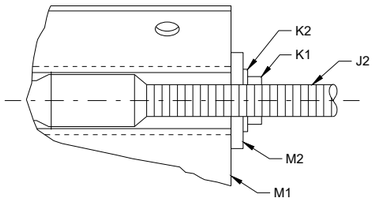
ARM GUSSET PLATE 2 (C6)



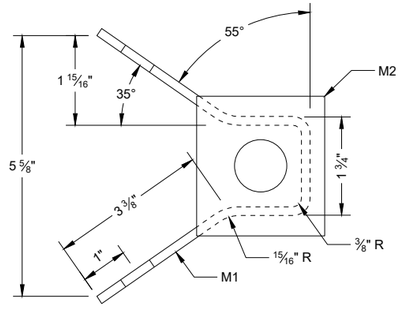


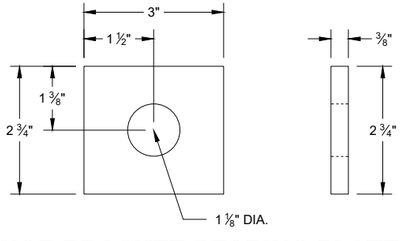
ANCHOR BRACKET (M1, M2)





SECTION A - A





ANCHOR BRACKET BEARING PLATE (M2)

MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD14B47 - 05e

BILL OF MATERIALS - TYPE 2 TERMINAL (MGS)

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
A1	TYPE 2 FOUNDATION TUBE	AASHTO M111 / ASTM A123 ASTM A500 GRADE B OR ASTM A-501	TS 8" x 6" x 3/16"
A2	LOWER PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	5/8" THICKNESS
A3	POST GUSSET	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	1/4" THICKNESS
A4	UPPER PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	3/4" THICKNESS
A5	TYPE 2 POST	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI, w6x9 or w6x8.5	
B1	BREAKAWAY BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC HEAVY HEX HEAD ASTM F3125 GRADE A325 TYPE 1 HEAVY HEX HEAD OR SAE J429 GRADE 5 HEAVY HEX HEAD / ASTM A449 TYPE 1 HEAVY HEX HEAD. BOLTS MAY BE FULLY THREADED . PROVIDE ENOUGH THREADING FOR PROPER TIGHTENING OF BOLT.	7/16" DIA.
B2	BREAKAWAY BOLT WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER ONLY)	7/16" DIA.
B3	BREAKAWAY BOLT NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291/ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	
C1	ARM ASSEMBLY PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	3/8" THICKNESS
C2	ARM ASSEMBLY TUBE 1	AASHTO M111 / ASTM A123 ASTM A500 GRADE B OR ASTM A-501	TS 8" x 6" x 3/16"
C3	ARM ASSEMBLY TUBE 2	AASHTO M111 / ASTM A123 ASTM A500 GRADE B OR ASTM A-501	TS 3" x 3" x 1/4"
C4	ARM ASSEMBLY TUBE 3	AASHTO M111 / ASTM A123 ASTM A500 GRADE B OR ASTM A-501	TS 2 1/2" x 2 1/2" X 1/4"
C5	ARM ASSEMBLY GUSSET PLATE 1	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	1/4" THICKNESS
C6	ARM ASSEMBLY GUSSET PLATE 2	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	1/4" THICKNESS
D1	ARM ASSEMBLY BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC HEAVY HEX HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36	1/2" DIA.
D2	ARM ASSEMBLY WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER ONLY)	1/2" DIA.
D3	ARM ASSEMBLY NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	1/2" DIA.
E1	TYPE 2 GUARD RAIL	AASHTO M180 CLASS A TYPE 2 12 GAUGE APPROVED PRODUCER	
E2	BEAM GUARD RAIL	AASHTO M180 CLASS A TYPE 2 12 GAUGE APPROVED PRODUCER	
E3	BEAM GUARD ROUNDED BUFFER END	AASHTO M180 CLASS A TYPE 2 12 GAUGE APPROVED PRODUCER	
F1	POST BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC UNC HEAVY HEX HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36	5/8" DIA.
F2	POST BOLT WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER ONLY)	5/8" DIA.
F3	POST BOLT NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291/ASTM A 563 AASHTO M180 RECESSED HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	
G1	GROUND STRUT CHANNEL	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	1/2" x 11 3/4" x 10 GAUGE
G2	GROUND STRUT CONNECTOR	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	1/4" THICKNESS
G3	GROUND STRUT PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	1/2" THICKNESS

BILL OF MATERIALS - TYPE 2 TERMINAL (MGS)

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
H1	GROUND STRUT BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC HEAVY HEX HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36	7/8" DIA.
H2	GROUND STRUT BOLT WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER ONLY)	7/8" DIA.
H3	GROUND STRUT BOLT NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC HEAVY HEX HEAD 5/8" ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36	
J1	BCT CABLE	AASHTO M30 / ASTM A741 6 x 19 INDEPENDENT WIRE CORE (IWRC) IMPROVED PLOW STEEL (IPS), 6 x 19 INDEPENDENT WIRE CORE (IWRC) IMPROVED PLOW STEEL (IPS) TYPE II OR IIC, CLASS C ZINC COATED MIN. BREAKING STRENGTH OF 42.7 KIPS	**3/4" DIA.**
J2	BCT CABLE	UNC 1" ASTM A576 GRADE 1035 SWAGE FITTINGS ARE TO BE FACTORY SWEDGED. MIN BREAKING STRENGTH OF 42.7 KIPS ASME B30.26 "FORGED, CAST, OR DIE STAMPED WITH THE FOLLOWING IN TO CONNECTION: NAME OF MANUFACTURE OR TRADEMARK OF CONNECTION'S MANUFACTURER, SIZE OR RATED LOAD, GRADE FOR ALLOY EYEBOLTS."	
K1	CABLE ASSEMBLY NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	1" DIA.
K2	CABLE ASSEMBLY WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1	1" DIA.
L1	BEARING PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	5/8" THICKNESS
L2	BEARING PLATE FLANGE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	1" THICKNESS
M1	BEAM GUARD ANCHOR BRACKET	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	
M2	BEAM GUARD ANCHOR END PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	3/8" THICKNESS
N1	ANCHOR BRACKET BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC AASHTO M180 HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36	5/8" DIA.
N2	ANCHOR BRACKET BOLT WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER ONLY)	5/8" DIA.
N3	ANCHOR BRACKET BOLT NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 /ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	
P1	FOUNDATION TUBE BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	1/2" DIA.
Q1	SPLICE BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC AASHTO M180 HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36	
Q2	SPLICE NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 AASHTO M180 RECESSED HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	5/8" DIA.

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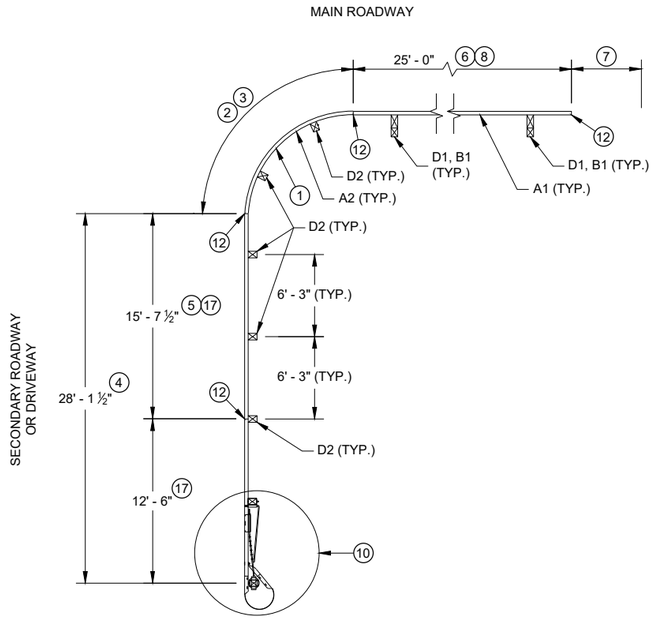
MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

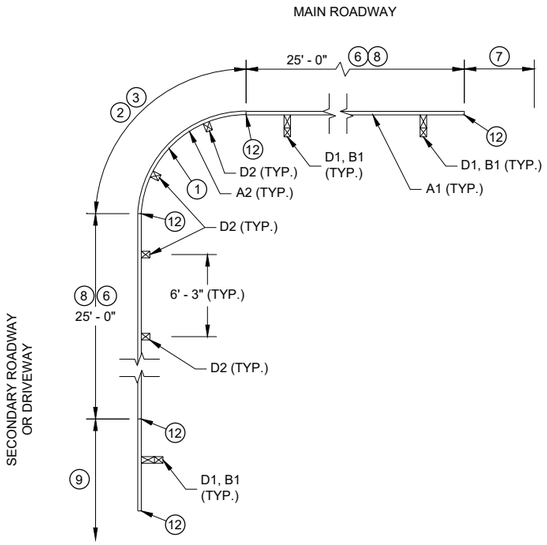
APPROVED
May 2023
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER
FHWA

SDD 14B47 - 05g



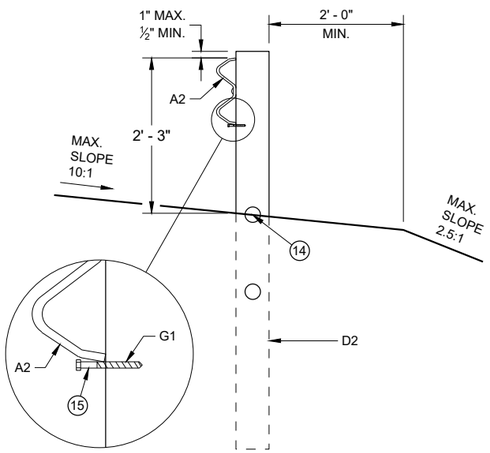
PLAN VIEW

SHORT RADIUS BEAM GUARD WITH SHORT RADIUS TERMINAL ON SECONDARY ROAD OR DRIVEWAY

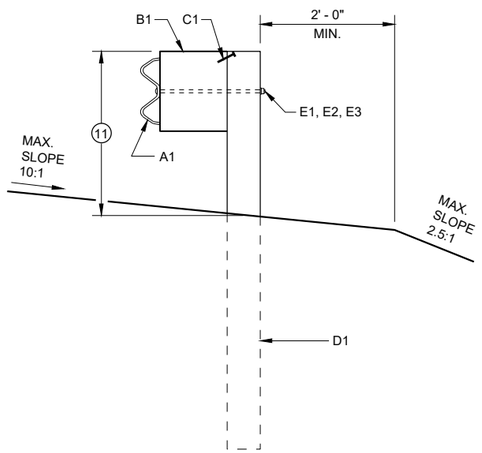


PLAN VIEW

SHORT RADIUS BEAM GUARD WITH EAT, ADDITIONAL BEAM GUARD OR TRANSITION TO RIGID BARRIER ON SECONDARY ROAD OR DRIVEWAY



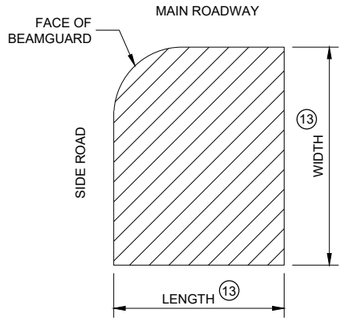
CONTROLLED RELEASE TERMINAL POST (CRT) IN RADIUS



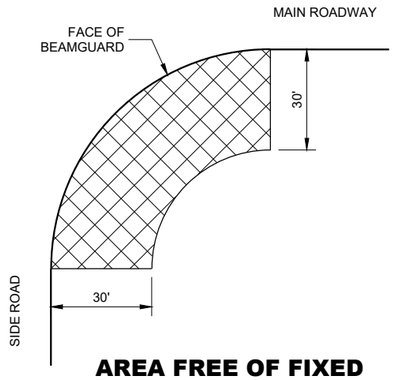
BEAM GUARD POSTS IN HEIGHT TRANSITION

TABLE FOR RADIUS OF 32' AND LESS

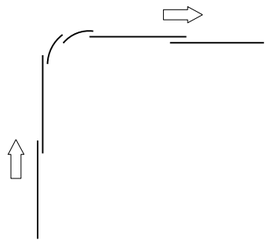
RADIUS (FT)	LENGTH (FT)	WIDTH (FT)
8	25	15
16	30	15
24	40	20
32	50	30



AREA FREE OF FIXED OBJECTS FOR RADIUS 32' AND LESS (16)



AREA FREE OF FIXED OBJECTS FOR RADIUS GREATER THAN 32'



LAP SPLICE DETAIL

GENERAL NOTES

SEE PLANS FOR OTHER BARRIER SYSTEM AND LOCATION SPECIFICS.

SEE SDD 14B42 FOR MORE INFORMATION ON BEAM GUARD INSTALLATION, PARTS, MATERIALS, AND INSTALLATION INFORMATION.

GALVANIZE PARTS AFTER FABRICATION.

WELDING TO FOLLOW CURRENT REQUIREMENTS OF THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE ANSI / AWS D1.1.

UNLESS NOTED OTHERWISE, ALL PLATES ARE FLAT AND FREE OF WARP.

UNLESS NOTED OTHERWISE, ALL EDGES ARE SMOOTH, STRAIGHT AND VERTICAL.

ALL CUTS AND HOLES, EXCEPT IN BEAM GUARD RAIL ARE TO BE MACHINED OR MACHINE FLAME CUT.

UNLESS NOTED OTHERWISE, CUT OR PROVIDE BOLTS THAT ARE ¼" TO ½" BEYOND THE NUT.

DRAWINGS ARE NOT TO SCALE.

(1) RADIUS MEASURE FROM INSIDE OF RAIL. LENGTH OF BEAM GUARD SHORT RADIUS GUARD MEASURED ALONG TRAFFIC SIDE OF RAIL. RADIUS BETWEEN 8 FEET TO 150 FEET. SEE PLAN FOR REQUIRED RADIUS. BEAM GUARD RAIL IN RADIUS IS SHOP BENT. ODD RAIL LENGTH OR FIELD CUTS MAY BE REQUIRED.

(2) CONTROLLED RELEASE TERMINAL (CRT) POSTS ARE USED IN THE RADIUS. CONTROLLED RELEASE TERMINAL (CRT) POSTS ARE SPACED 6' - 3". SEE PLAN FOR NUMBER OF CONTROLLED RELEASE (CRT) POSTS.

(3) WITHIN RADIUS BEAM GUARD RAILS ARE NOT BOLTED TO POSTS. BEAM GUARD RAIL IS RESTED ON TOP OF LAG SCREW.

(4) MINIMUM LENGTH OF BEAM GUARD ALONG SIDE ROAD OR DRIVEWAY TO INSTALL SHORT RADIUS TERMINAL. BEAM GUARD IS PAID WITH BEAM GUARD ITEM.

(5) ODD LENGTH OF BEAM GUARD REQUIRED TO INSTALL SHORT RADIUS TERMINAL.

(6) MINIMUM AMOUNT OF BEAM GUARD TO BE INSTALLED PRIOR TO TRANSITION TO RIGID BARRIER. ADDITIONAL BEAM GUARD, OR EAT. BEAM GUARD PAID FOR WITH BEAM GUARD ITEM. SEE PLANS FOR MORE DETAIL.

(7) BEAM GUARD, EAT, OR TRANSITION TO RIGID BARRIER. SEE PLAN.

(8) TOP OF BEAM GUARD BY THE RADIUS IS 27". HEIGHT OF BEAM GUARD IS 31" BY TRANSITION TO RIGID BARRIER, ADDITIONAL BEAM GUARD OR EAT.

(9) ADDITIONAL BEAM GUARD, EAT OR TRANSITION TO RIGID BARRIER. BEAM GUARD SHOWN. SEE PLAN FOR DETAILS.

(10) SHORT RADIUS TERMINAL (SEE OTHER DETAILS).

(11) HEIGHT VARIES. SEE NOTE (8) AND (8).

(12) BEAM GUARD RAIL SPLICE LOCATION. SPLICE LOCATION REQUIRES PART F1 AND F2. SEE SDD 14B42 FOR DETAILS.

(13) SEE TABLE FOR VALUES.

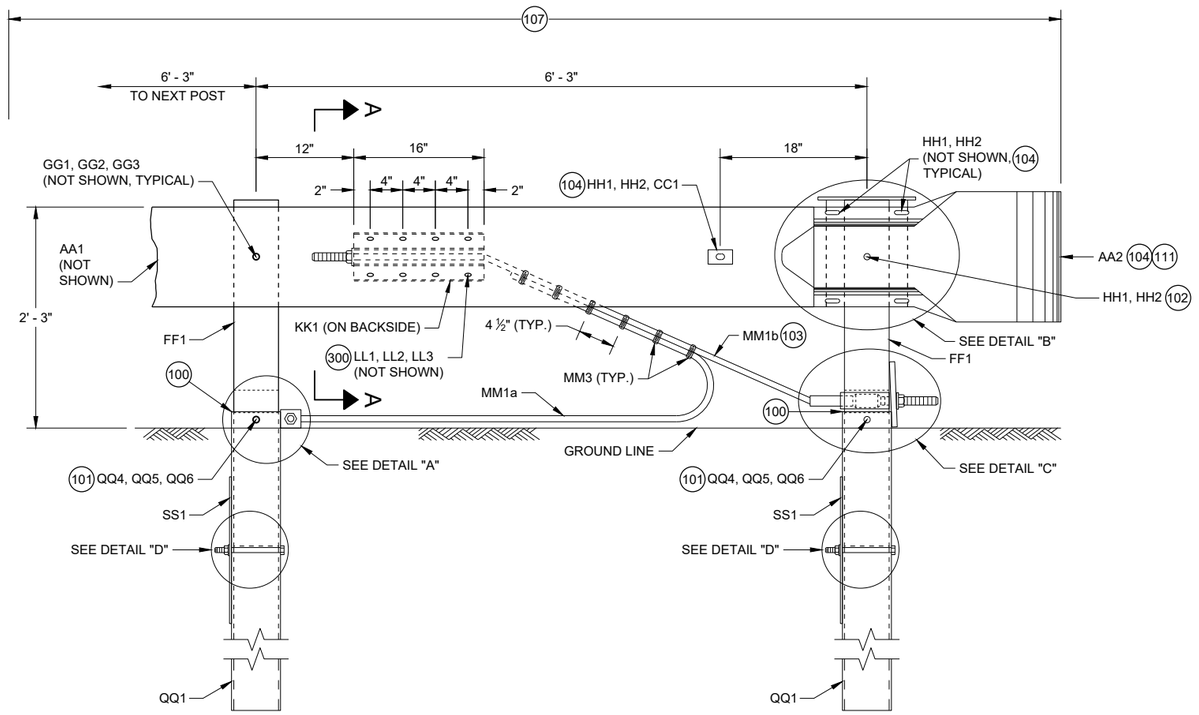
(14) MAXIMUM HEIGHT FOR CENTER OF HOLE IS ¾" ABOVE FINISHED GROUND ±1".

(15) DRILL POST $^{15}/_{64}$" DIA. PILOT HOLE. DO NOT HAMMER LAG SCREW INTO POST.

(16) SMALL SIGNS ON BREAKAWAY HARDWARE ARE ACCEPTABLE.

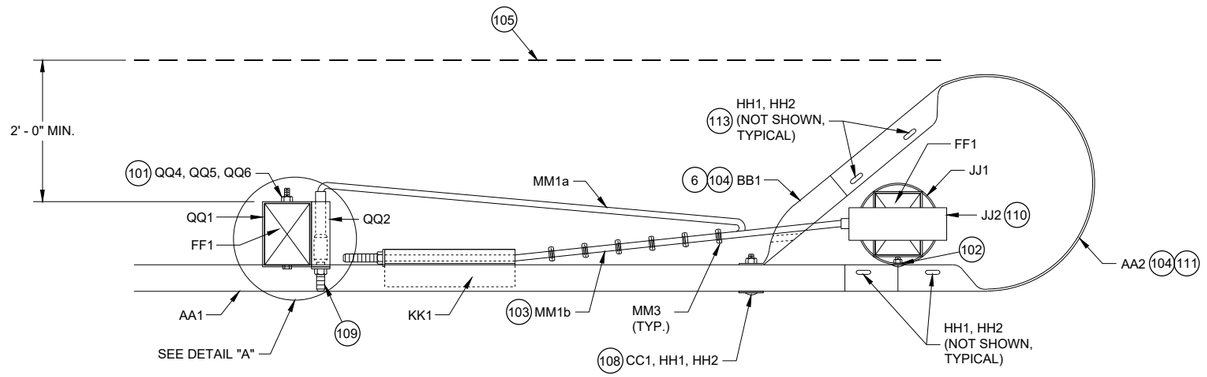
(17) TOP OF RAIL HEIGHT IS 27" WHEN USING A SHORT RADIUS TERMINAL (CRT).

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)



PROFILE VIEW

SHORT RADIUS TERMINAL



TOP VIEW

SHORT RADIUS TERMINAL

GENERAL NOTES

100 TOP OF FOUNDATION TUBE 2 INCHES MAXIMUM ABOVE FINISHED GROUND.

101 WASHERS REQUIRED BETWEEN BOLT HEAD AND FOUNDATION TUBE AND BETWEEN NUT AND FOUNDATION TUBE.

102 SPLICE BOLT AND NUT CONNECTS BEAM GUARD RAIL, W-BEAM SECTION BUFFER, AND STEEL PIPE ASSEMBLY. NO WASHER REQUIRED. SEE DETAIL "B".

103 CABLE IS TAUT.

104 ADJUST AA2 AND BB1 TO FIT.

105 BREAK POINT OF SHOULDER.

106 TACK WELD CABLE CONNECTOR TUBE PLATE TO CABLE CONNECTION TUBE. SEE DETAIL "A" PROFILE VIEW.

107 PAY LIMIT FOR BEAM GUARD.

108 SQUARE WASHER BETWEEN HEAD OF BOLT AND TRAFFIC FACE OF BEAM GUARD. ROUND WASHER REQUIRED BETWEEN NUT AND BB1.

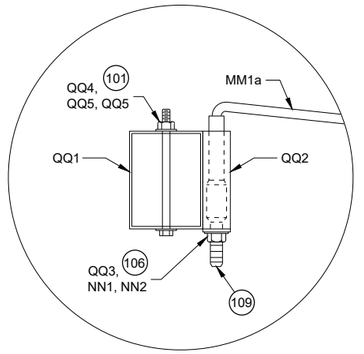
109 CUT OR PROVIDE THREADED STUD THAT IS FLUSH WITH FACE OF BEAM GUARD RAIL KK1 (PLUS OR MINUS ½" TOLERANCE). DEBURR AFTER CUTTING.

110 SEE STEEL PIPE ASSEMBLY DETAILS.

111 ATTACH UU2 WITH UU3. SHOP APPLY UU1 TO UU2.

112 FOUR (4) HH1 AND HH2 REQUIRED TO ATTACH AA1 TO AA2.

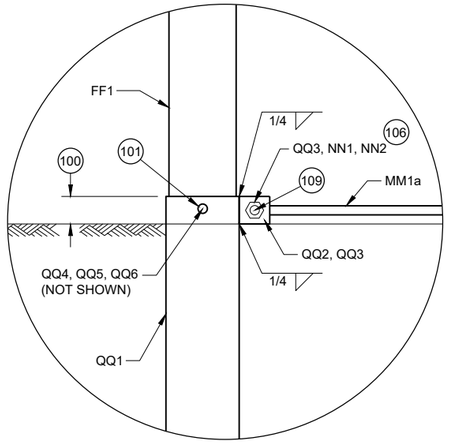
113 FOUR (4) HH1 AND HH2 REQUIRED TO ATTACH AA2 TO BB1.



TOP VIEW

DETAIL "A"

(WOOD BREAKAWAY AND BEAM GUARD RAIL POSTS NOT SHOWN)



PROFILE VIEW

DETAIL "A"

6

SDD 14B53 - 02b

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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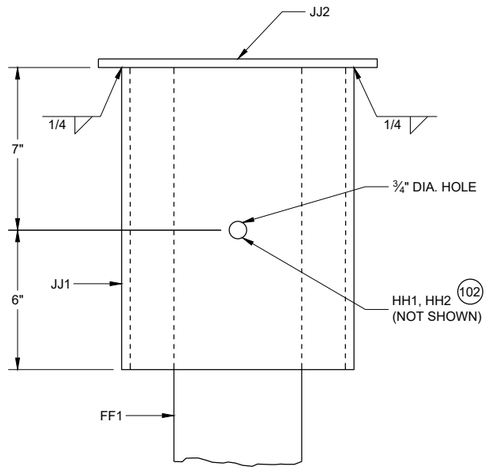
SDD 14B53 - 02b

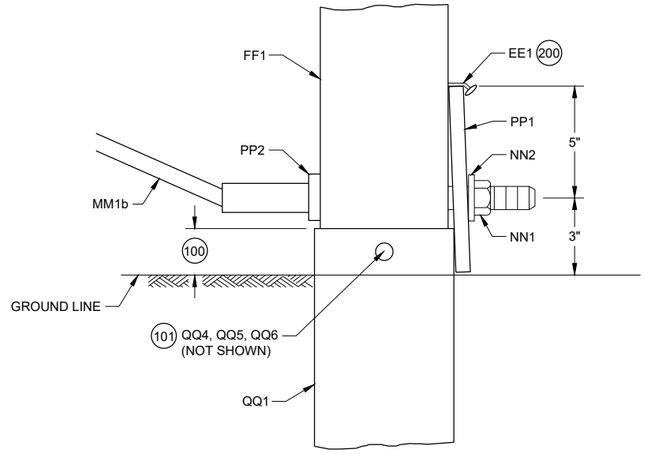
GENERAL NOTES

(200) TWO (2) NAILS SPACED 4 INCHES CENTER TO CENTER.



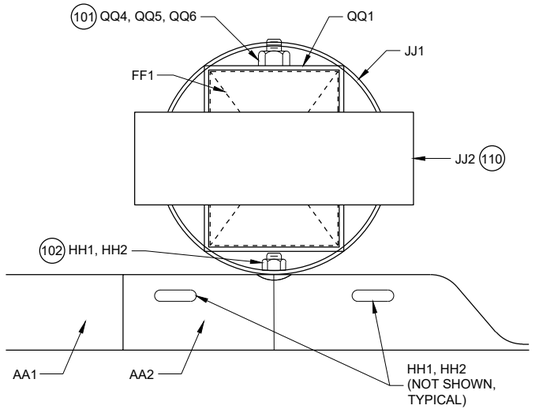
PROFILE VIEW

DETAIL "B"
STEEL PIPE ASSEMBLY
(BEAM GUARD AND W BEAM END SECTION NOT SHOWN)



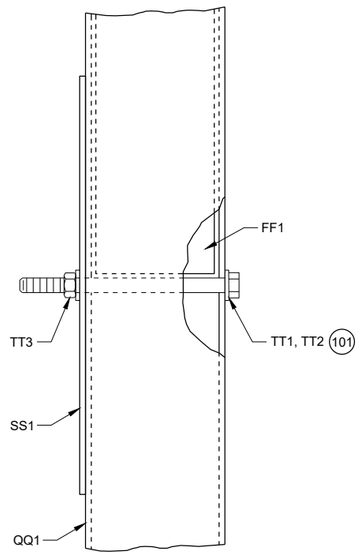
PROFILE VIEW

DETAIL "C"



PLAN VIEW

DETAIL "B"
STEEL PIPE ASSEMBLY



PROFILE VIEW

DETAIL "D"

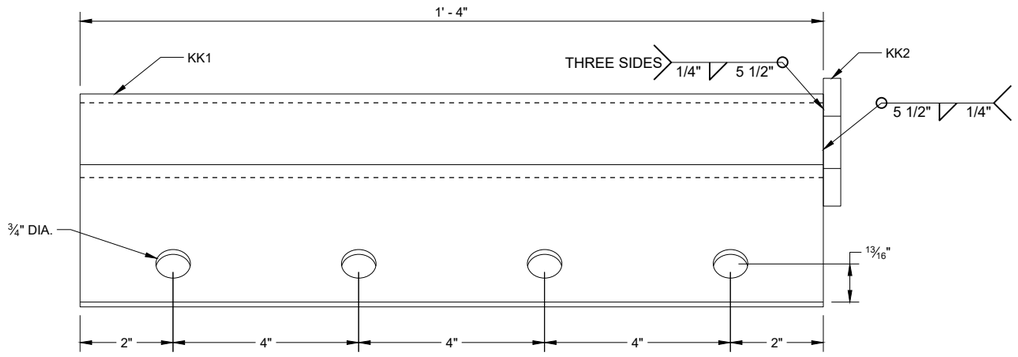
SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

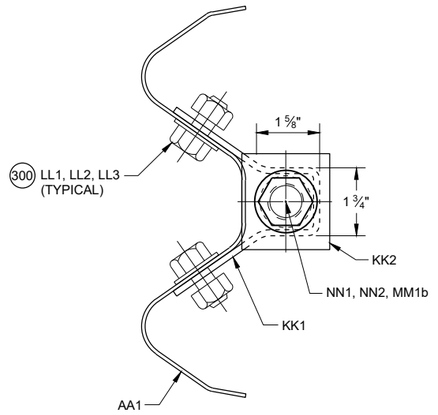
6

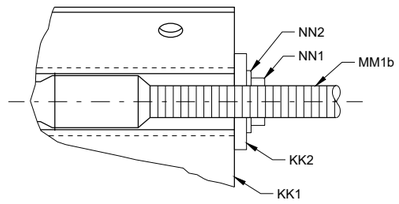
SDD 14B53 - 02c

GENERAL NOTES

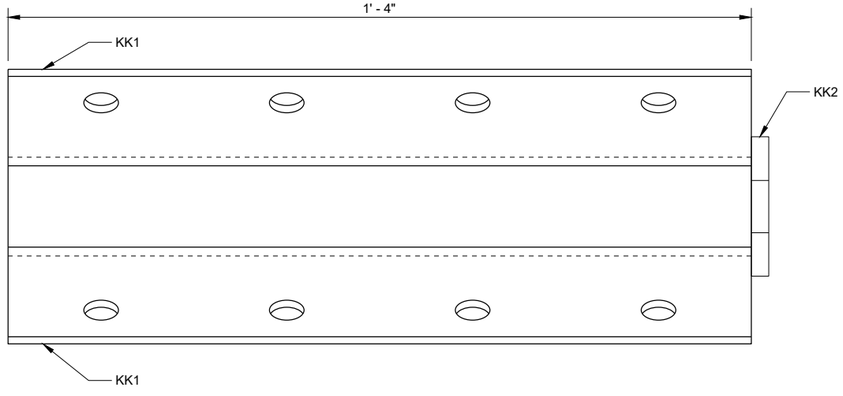
(300) WASHERS REQUIRED BETWEEN BOLT HEAD AND BEAM GUARD RAIL AND BETWEEN NUT AND ANCHOR BRACKET. EIGHT (8) LL1 AND LL3 REQUIRED. SIXTEEN (16) LL2 REQUIRED.

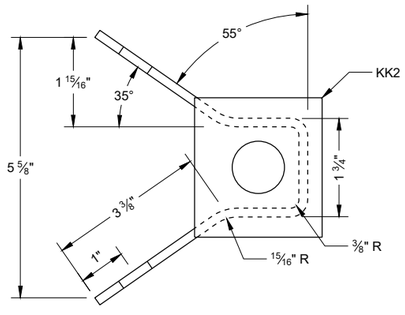




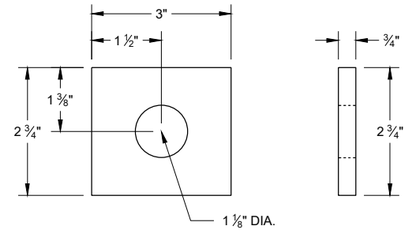


SECTION A - A





ANCHOR BRACKET (KK1, KK2)



ANCHOR BRACKET BEARING PLATE (KK2)

6

SDD 14B53 - 02d

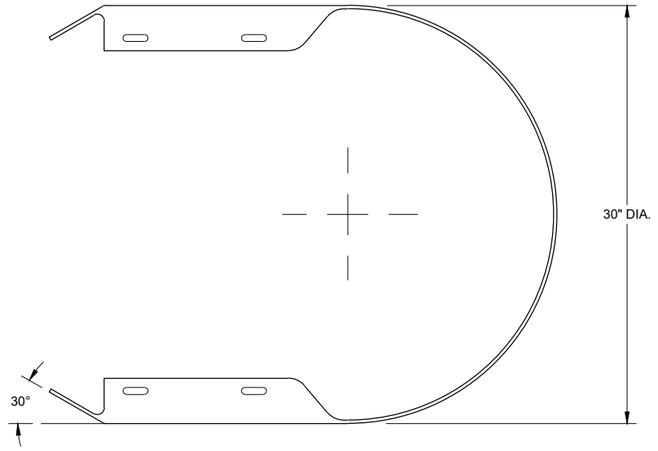
SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

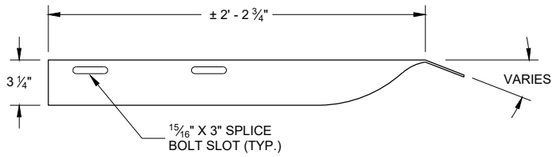
GENERAL NOTES

(400) CROSS SECTION OF PART IS TO FIT OVER AA1 .

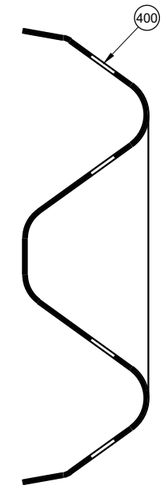
(401) CROSS SECTION OF PART IS TO FIT OVER OR UNDER AA1 .



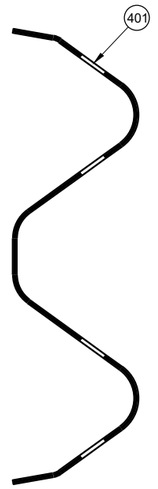
TOP VIEW



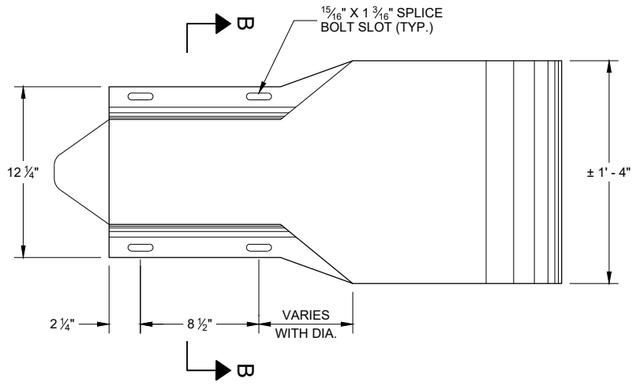
TOP VIEW



SECTION B -B

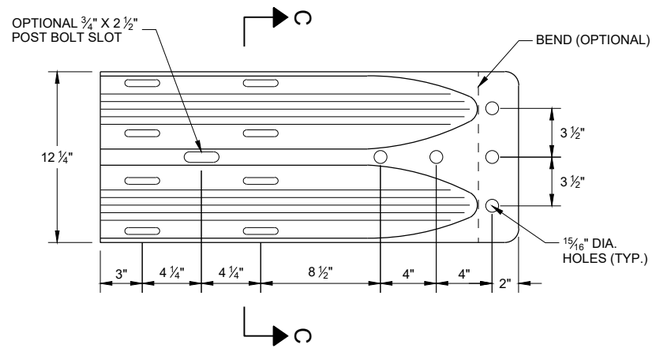


SECTION C -C



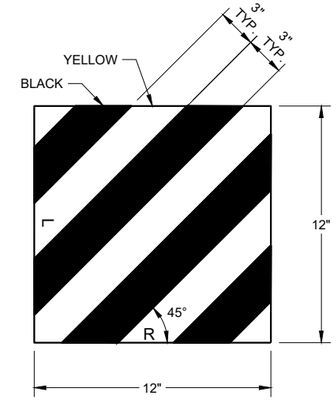
PROFILE VIEW

W BEAM
END SECTION BUFFER (AA2)



PROFILE VIEW

W BEAM
TERMINAL CONNECTOR (BB1)



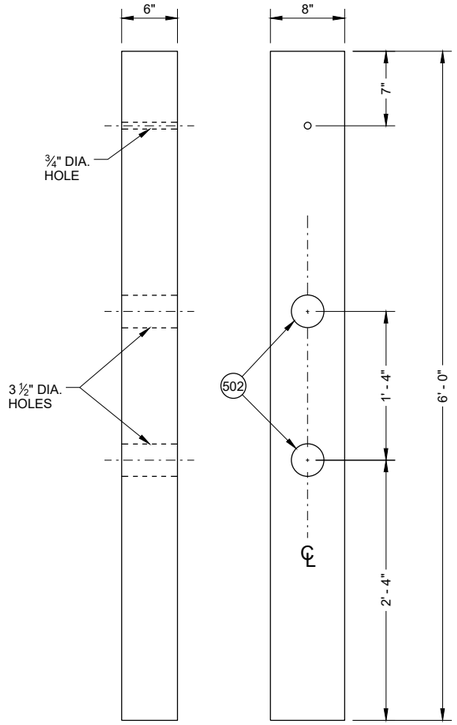
REFLECTIVE SHEETING (UU1, UU2)

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

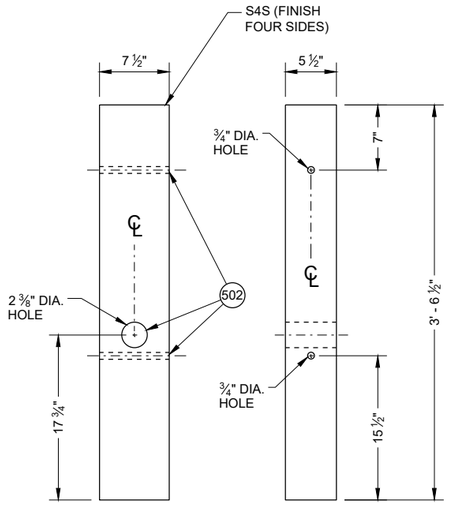
6

SDD 14B53 - 02e



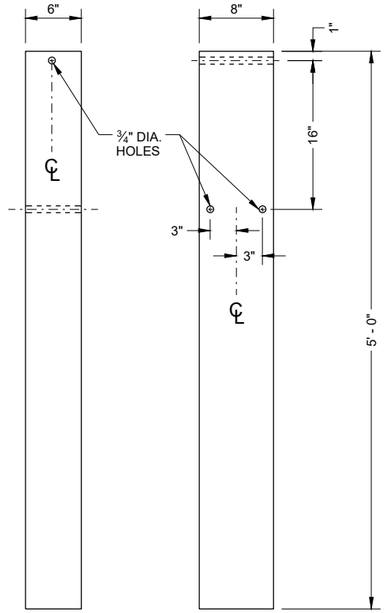
FRONT VIEW SIDE VIEW

CONTROLLED RELEASE POST (CRT) (DD2)



FRONT VIEW SIDE VIEW

WOOD BREAKAWAY POST (FF1)



FRONT VIEW SIDE VIEW

FOUNDATION TUBE (QQ1) 500

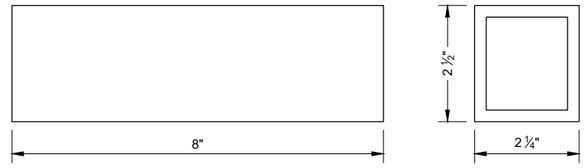
GENERAL NOTES

500 SEE DETAIL "D" FOR LOCATION AND ATTACHMENT OF SS1.

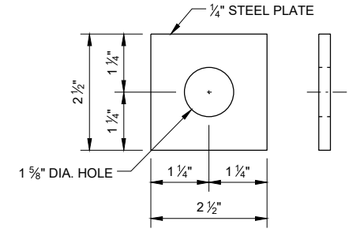
501 FOR MM1a THREADED STUD ONLY REQUIRED ON ONE END. SWAGED FITTING REQUIRED.

502 LOCATE HOLES ON THE CENTERLINE OF THE SIDE OF THE POST.

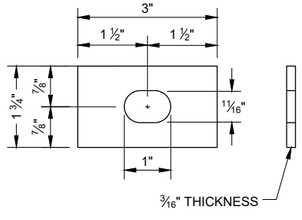
503 MM1a MAY HAVE ONE THREADED STUD 4 INCHES LONG. SEE NOTE 109.



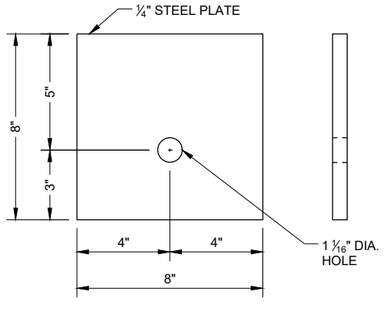
FOUNDATION TUBE - ANCHOR CABLE TUBE (QQ2)



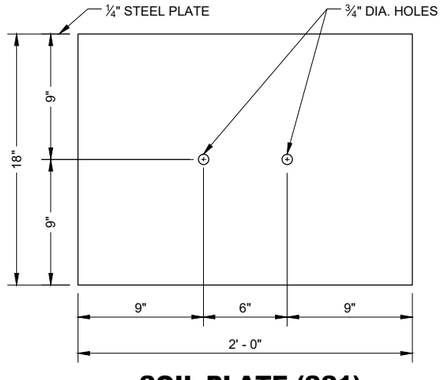
ANCHOR CABLE TUBE END PLATE (QQ3)



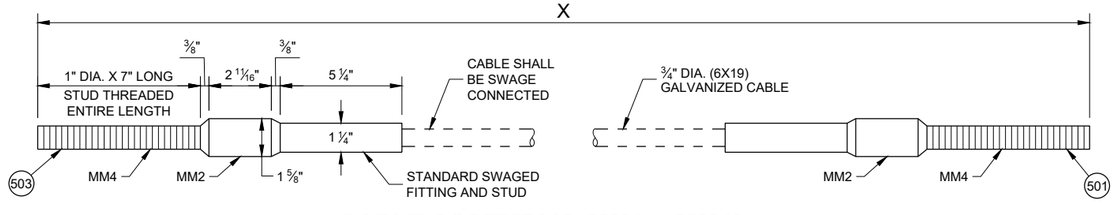
RECTANGULAR PLATE WASHER (CC1)



BEARING PLATE (PP1)



SOIL PLATE (SS1)



CABLE ASSEMBLY (MM1a, MM1b)

"X" LENGTH

MM1b	9' - 0"
MM1b	6' - 8"

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 14B53 - 02f

BILL OF MATERIALS - SHORT RADIUS BEAM GUARD (MGS)

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
A1	BEAM GUARD RAIL	AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
A2	BEAM GUARD RAIL - SHOP BENT	INDICATE ON BACK OF RAIL THE RADIUS THAT RAIL WAS BENT TO. SHOP BEND RADIUS IS TO THE NEAREST FOOT. FOLLOW AASHTO M180 ON HOW TO MARK RADIUS INFORMATION.	
		AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
B1	BLOCK - WOOD	WISDOT SPEC. 614	SEE SDD 14B42
C1	NAIL	ASTM A153 HOT DIP CLASS D	
		ASTM F1667 TYPE 1 STYLE 12 (16 DOUBLE HEAD)	
D1	POST-STRONG POST-WOOD	WISDOT SPEC. 614	SEE SDD 14B42
D2	POST-CRT-WOOD	WISDOT SPEC. 614	
E1	POST BOLT	ASTM A307 GRADE A OR SAE J429 GRADE 2	5/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		AASHTO M180	
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		UNC	
E2	POST BOLT - WASHER	ASTM F436 TYPE 1 (HARDEN TYPICALLY USED WITH STEEL) OR ASTM F844 (UNHARDENED TYPICALLY WITH WOOD)	5/8" DIA.
		GALV. AASHTO M111 / ASTM A 123 OR GALV. HOT DIP. TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	
E3	POST BOLT - NUT	AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	5/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		UNC	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		ASTM A563 GRADE A HEAVY HEX HEAD	
F1	SPLICE BOLT	GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	5/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		ASTM A307 GRADE A OR SAE J429 GRADE 2	
		UNC	
		AASHTO M180	

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
F2	SPLICE BOLT - NUT	ASTM A563 GRADE A	5/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C/ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1/ASTM B695 CLASS 50, TYPE 1	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		UNC	
G1	LAG SCREW	ASTM A308 GRADE A ASTM A153 CLASS D	1/2" DIA. 6" LONG
H1	DELINEATOR - BEAM GUARD		SEE SDD 14B42 FOR MORE INFORMATION
H2	DELINEATION - SHEETING	YELLOW OR WHITE	
		WISDOT SPEC 637 TYPE SH	
		APPROVED PRODUCT LIST	
J1	FOUNDATION BACKFILL	STANDARD SPEC. 614	
AA1	BEAM GUARD RAIL - PUNCHED	AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
AA2	BEAM GUARD RAIL - END SECTION BUFFER	AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
BB1	BEAM GUARD RAIL - TERMINAL CONNECTOR MODIFIED	AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
CC1	SHORT RADIUS - SQUARE WASHER	AASHTO M180	
		GALV. AASHTO M111 / ASTM A123	
EE1	NAIL	ASTM A153 HOT DIP CLASS D	
		ASTM F1667 TYPE 1 STYLE 12 (16 DOUBLE HEADED)	
FF1	POST - BCT - WOOD	S4S FINISH ON 4 SIDES	
		WISDOT SPEC. 614	
GG1	POST BOLT	ASTM A307 GRADE A OR SAE J429 GRADE 2	3/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		AASHTO M180	
		GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C/ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1/ASTM B695 CLASS 50, TYPE 1	
		UNC	
GG2	POST BOLT - WASHER	ASTM F436 TYPE 1 (HARDEN TYPICALLY USED WITH STEEL) OR ASTM F844 (UNHARDENED TYPICALLY WITH WOOD)	3/8" DIA.
		GALV. AASHTO M111 / ASTM A 123 OR GALV. HOT DIP. TO AASHTO M232 CLASS C/ASTM A153 CLASS C / ASTM F2329	

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

6

SDD 14B53 - 02g

BILL OF MATERIALS - SHORT RADIUS BEAM GUARD (MGS)

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
GG3	POST BOLT - NUT	ASTM A563 GRADE A	⅜" DIA. SEE 14B42 FOR GEOMETRY
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		UNC	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		ASTM A563 GRADE A HEAVY HEX HEAD	
HH1	SPLICE BOLT	GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	⅜" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		ASTM A307 GRADE A OR SAE J429 GRADE 2	
		UNC	
		AASHTO M180 HEAD GEOMETRY	
HH2	SPLICE BOLT - NUT	ASTM A563 GRADE A	⅜" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		UNC	
JJ1	PIPE - STEEL	ASTM A53 GALVANIZED GRADE B SCHEDULE 40	10" O.D.
JJ2	TOP PLATE	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	DIMENSIONS ⅜" X 4" X 1' - 0"
		GALV. AASHTO M111 / ASTM A123	
KK1	ANCHOR BRACKET	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	
		GALV. AASHTO M111 / ASTM A123	
KK2	ANCHOR BRACKET - BEARING PLATE	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	
		GALV. AASHTO M111 / ASTM A123	
LL1	ANCHOR BRACKET - BOLT	ASTM A307 GRADE B HEAVY HEX HEAD OR SAE J429 GRADE 2 HEAVY HEX HEAD	⅝" DIA.
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		UNC	

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
LL2	ANCHOR BRACKET - WASHER	ASTM F436 TYPE 1 (HARDEN WASHER ONLY)	⅝" DIA.
		GALV. AASHTO M111 / ASTM A123 OR GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	
LL3	ANCHOR BRACKET - NUT	ASTM A563 GRADE A	⅝" DIA.
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		UNC	
MM1a	ANCHOR CABLE	AASHTO M30 / ASTM A741 INDEPENDENT WIRE CORE (IWRC) OR WIRE STRAND CORE (WCS), IMPROVED PLOW STEEL (IPS), 6X19, TYPE II OR IIc CLASS C ZINC COATED	
MM1b	ANCHOR CABLE	AASHTO M30 / ASTM A741 INDEPENDENT WIRE CORE (IWRC) OR WIRE STRAND CORE (WCS), IMPROVED PLOW STEEL (IPS), 6X19, TYPE II OR IIc CLASS C ZINC COATED	
MM2	ANCHOR CABLE - SWAGE FITTING	ASTM A576 GRADE 1035	
		SWAGE FITTINGS ARE TO BE FACTORY SWEDGED. WITH A BREAKING STRENGTH 40,000 LBS.	
		GALV. AASHTO M111 / ASTM A123	
		ASME B30.26 FORGED, CAST, OR DIE STAMPED WITH THE FOLLOWING INTO CONNECTION: NAME OF MANUFACTURER OR TRADEMARK OF CONNECTION'S MANUFACTURER, SIZE OR RATED LOAD, GRADE.	
MM3	WIRE ROPE CABLE CLAMPS	FF-C-450D TYPE 1 CLASS 1	¾"
		ASTM A153 HOT DIP CLASS D	
MM4	ANCHOR CABLE - SWAGE FITTING - STUD	ASTM F3125 GRADE A325 TYPE 1 OR SAE GRADE 5 OR ASTM A449 TYPE 1 HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		UNC	
NN1	ANCHOR CABLE - NUT	ASTM A563 GRADE A	1" DIA.
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		UNC	
NN2	ANCHOR CABLE - NUT - WASHER	ASTM F436 TYPE 1 (HARDEN WASHER ONLY)	1" DIA.
		GALV. AASHTO M111 / ASTM A123 OR GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

6

SDD 14B53 - 02h

BILL OF MATERIALS - SHORT RADIUS BEAM GUARD (MGS)

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
PP1	BEARING PLATE AT POST	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	
		GALV. AASHTO M111 / ASTM A123	
PP2	PIPE - STEEL	ASTM A53 GALVANIZED GRADE B SCHEDULE 40	2" DIA. x 6" LONG
QQ1	FOUNDATION TUBE	ASTM A500 GRADE B	8" X 6" X 3/16"
		GALV. AASHTO M111 / ASTM A123	
QQ2	SHORT RADIUS - FOUNDATION TUBE - ANCHOR CABLE - TUBE	ASTM A500 GRADE B	DIMENSIONS 2 1/2" X 2 1/4" X 1/4" X 8"
		GALV. AASHTO M111 / ASTM A123	
QQ3	SHORT RADIUS - SOIL TUBE - ANCHOR CABLE - TUBE - END PLATE	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	DIMENSIONS 2 1/2" X 2 1/2" X 1/4"
		GALV. AASHTO M111 / ASTM A123	
QQ4	GROUND STRUT AND YOKE - BOLT	GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	5/8 DIA.
		ASTM A307 GRADE B HEAVY HEX HEAD OR SAE J429 GRADE 2 HEAVY HEX HEAD	
		UNC	
QQ5	GROUND PLATE AND YOKE - WASHER	ASTM F436 TYPE 1 (HARDEN WASHER ONLY)	5/8 DIA.
		GALV. AASHTO M111 / ASTM A123 OR GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	
QQ6	GROUND STRUT AND YOKE - NUT	HEAVY HEX	5/8 DIA.
		UNC	
		ASTM A563 GRADE A	
		OVER TAPPED NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
SS1	SOIL PLATE	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	
		GALV. AASHTO M111 / A123	
TT1	SOIL PLATE - BOLT	ASTM A307 GRADE B HEAVY HEX HEAD OR SAE J429 GRADE 2 HEAVY HEX HEAD	5/8 DIA.
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		UNC	
TT2	SOIL PLATE - WASHER	ASTM F436 TYPE 1 (HARDEN WASHER ONLY)	5/8 DIA.
		GALV. AASHTO M111 / ASTM A123 OR GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	
TT3	SOIL PLATE - NUT	GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	5/8 DIA.
UU1	OBJECT MARKER - SHEETING	MUTCD / WISDOT OBJECT MARKER TYPE 3	PATTERN AND COLOR FOR SHEETING. SHEETING TYPE FOR MARKER.
		WISDOT SPEC 637 TYPE F	
		APPROVED PRODUCT LIST	
UU2	OBJECT MARKER - ALUMINUM PLATE	WISDOT SPEC 637 ALUMINUM PLATE	MATERIAL AND THICKNESS OF MATERIALS
UU3	OBJECT MARKER - SCREWS	STAINLESS SELF-TAPPING SCREWS	
VV1	FOUNDATION BACKFILL	WISDOT SPEC 614	

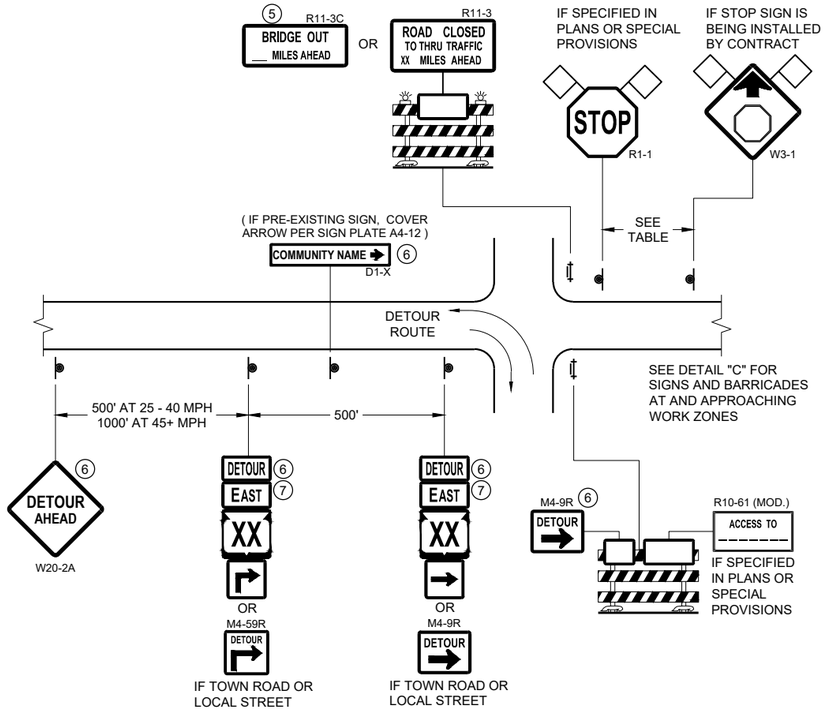
6

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

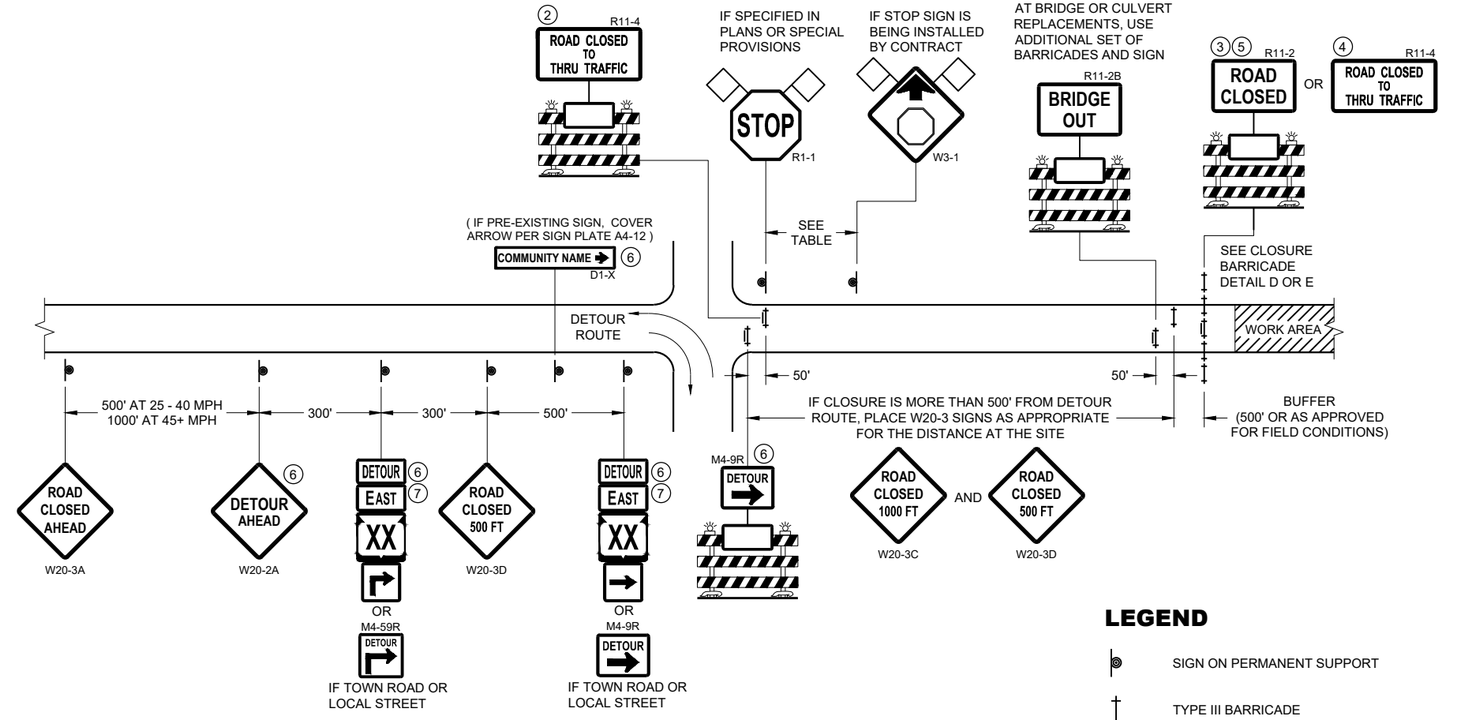
APPROVED
May 2022 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER
FHWA

SDD 14B53 - 02i



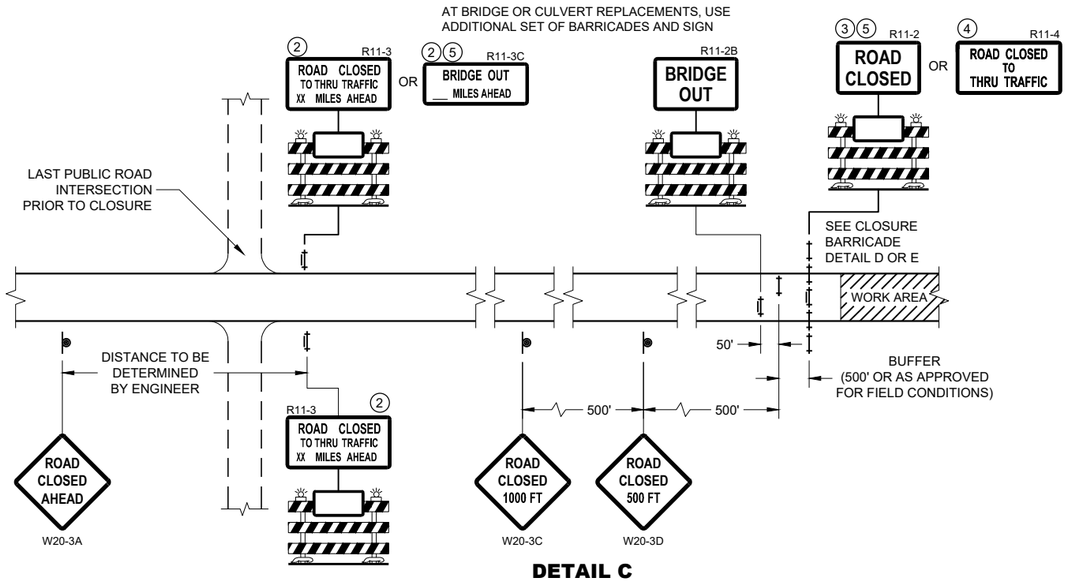
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

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

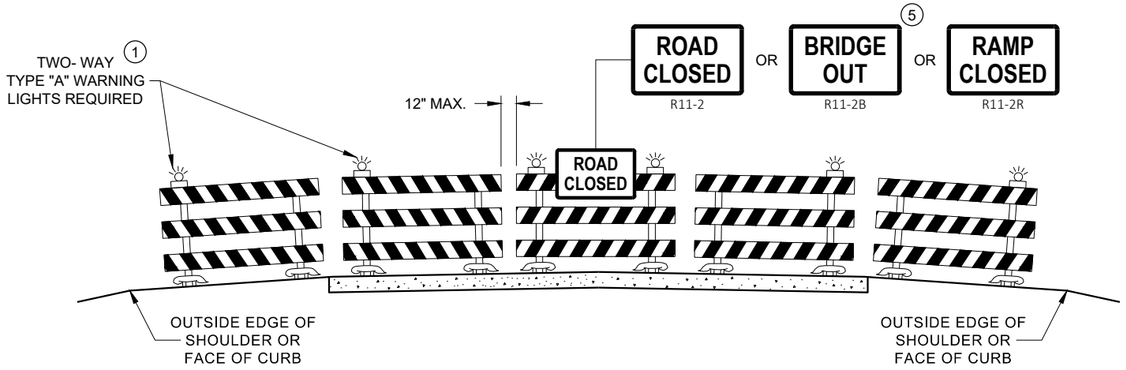
APPROVED
May 2023
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

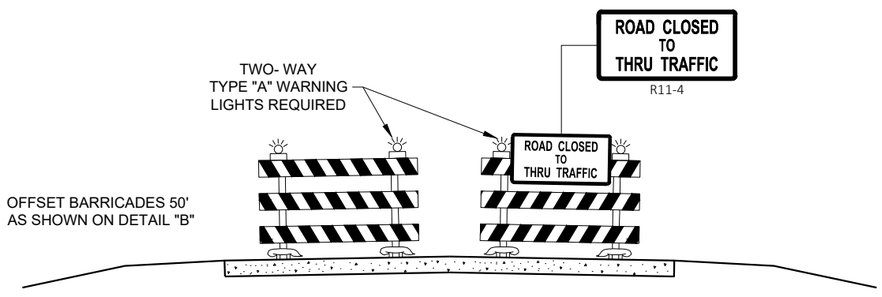
6

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

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.

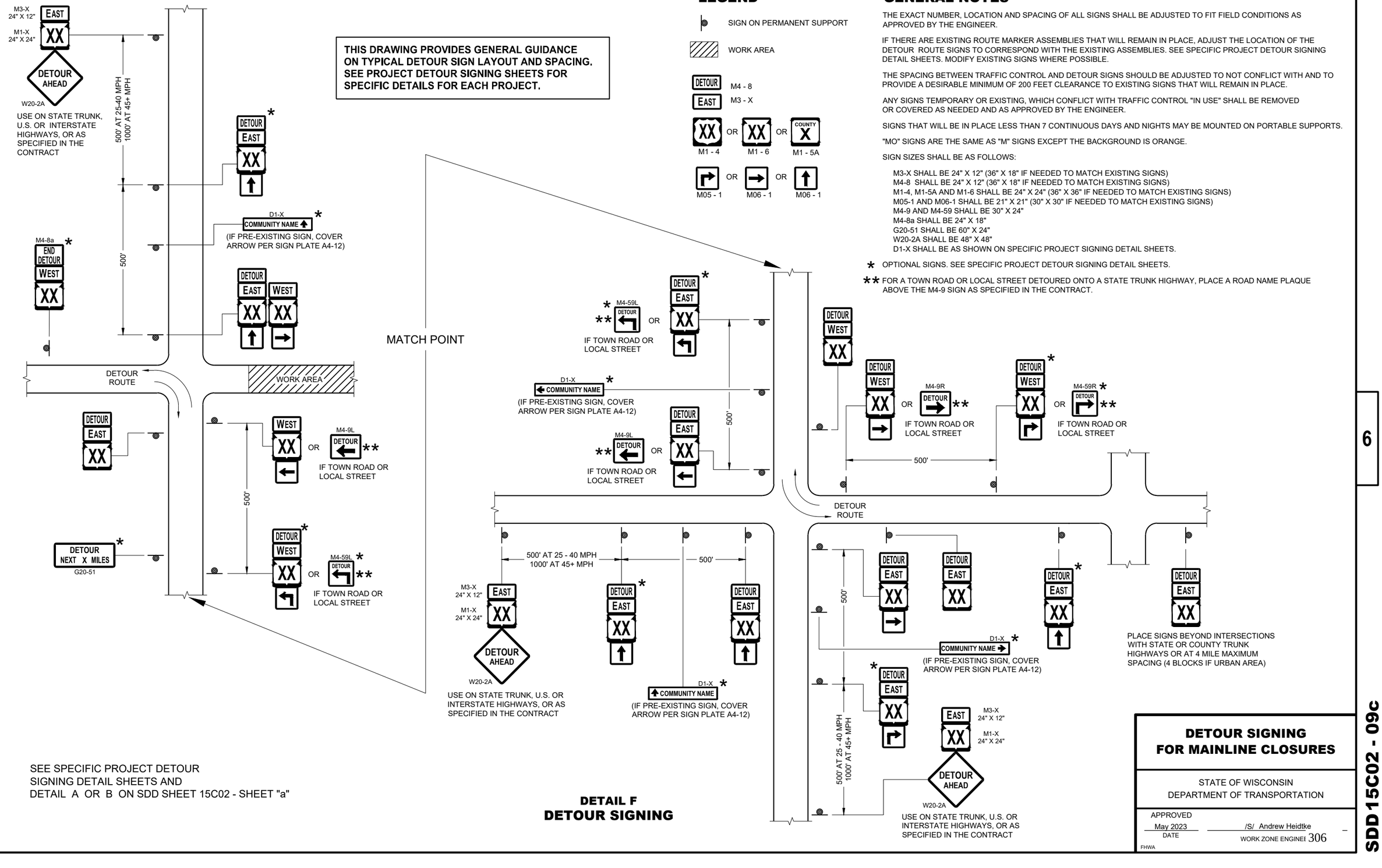
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

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



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

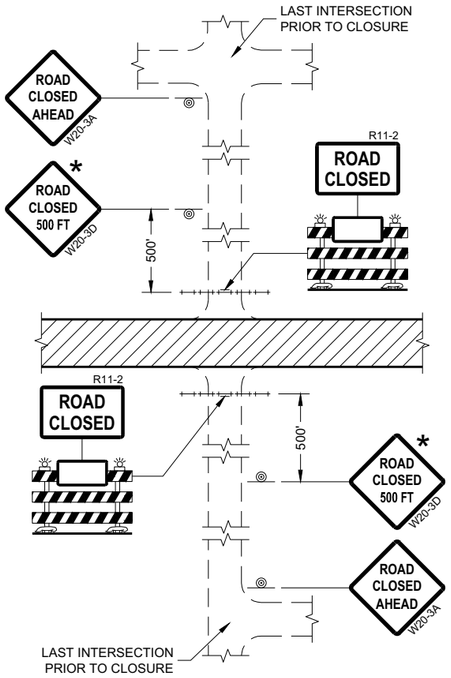
APPROVED
May 2023
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

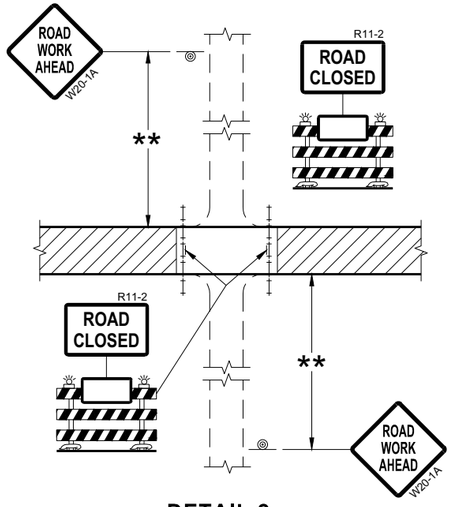
FHWA

6

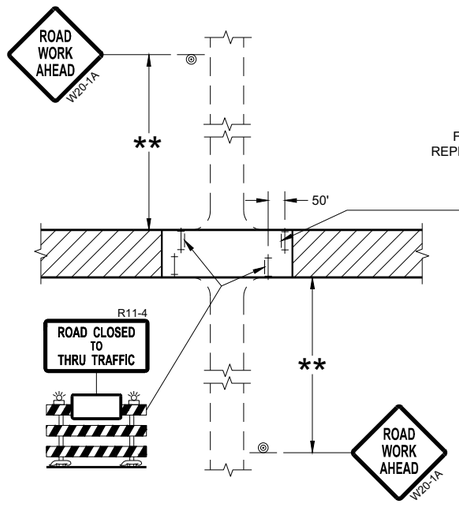
SDD 15C02 - 09c



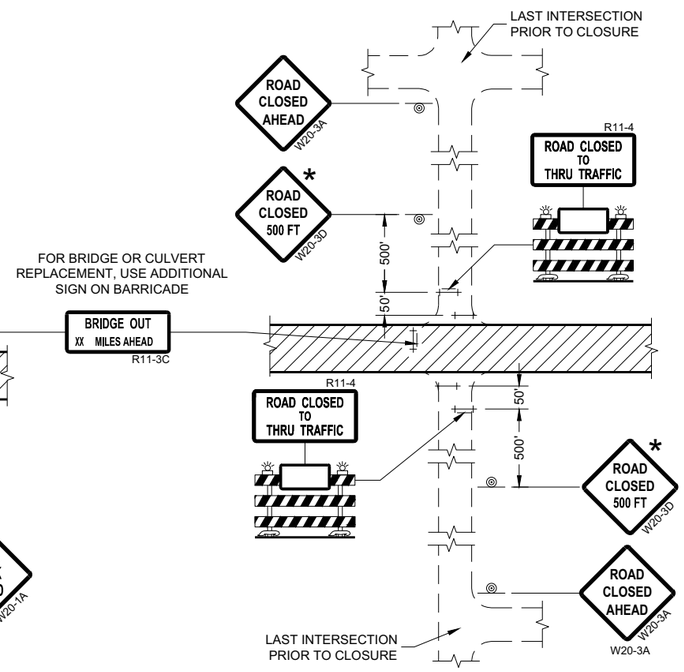
DETAIL 1
(NO ACCESS TO PROJECT)



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



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



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

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

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

LEGEND

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

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

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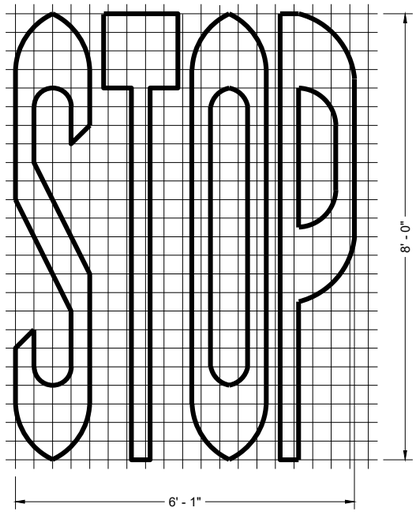
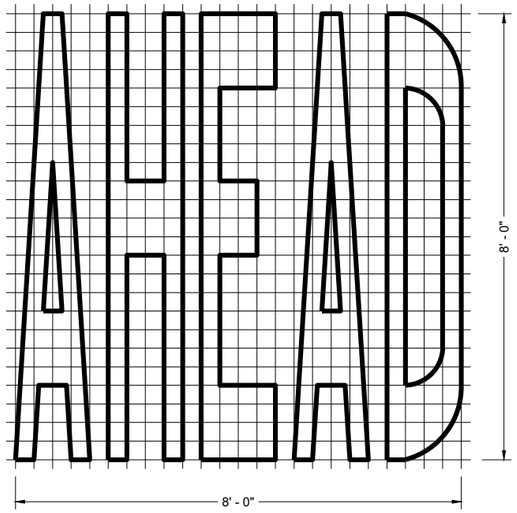
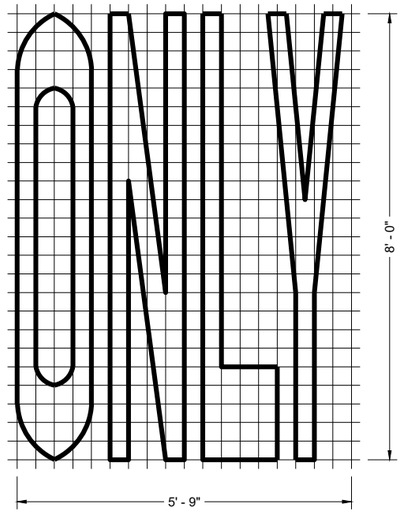
SDD 15C03 - 05

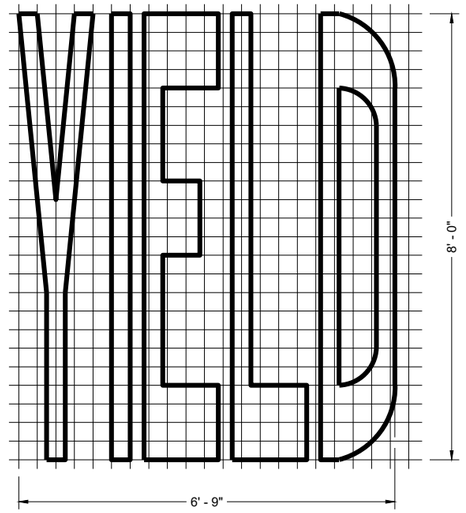
6

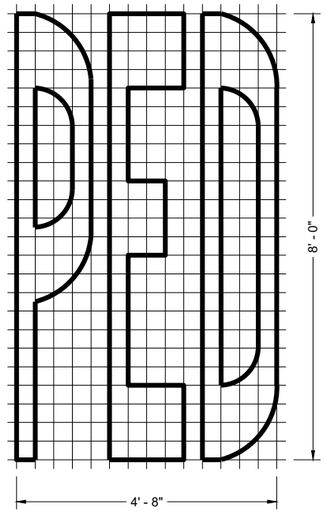
SDD 15C03 - 05

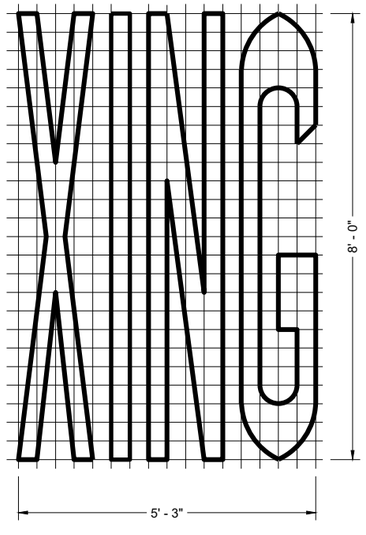


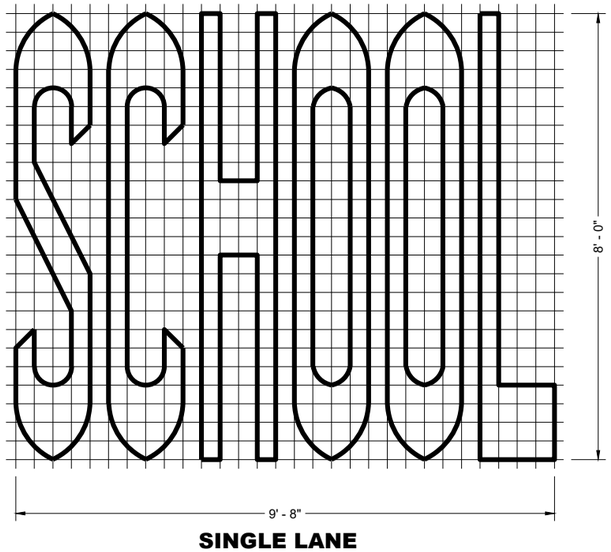




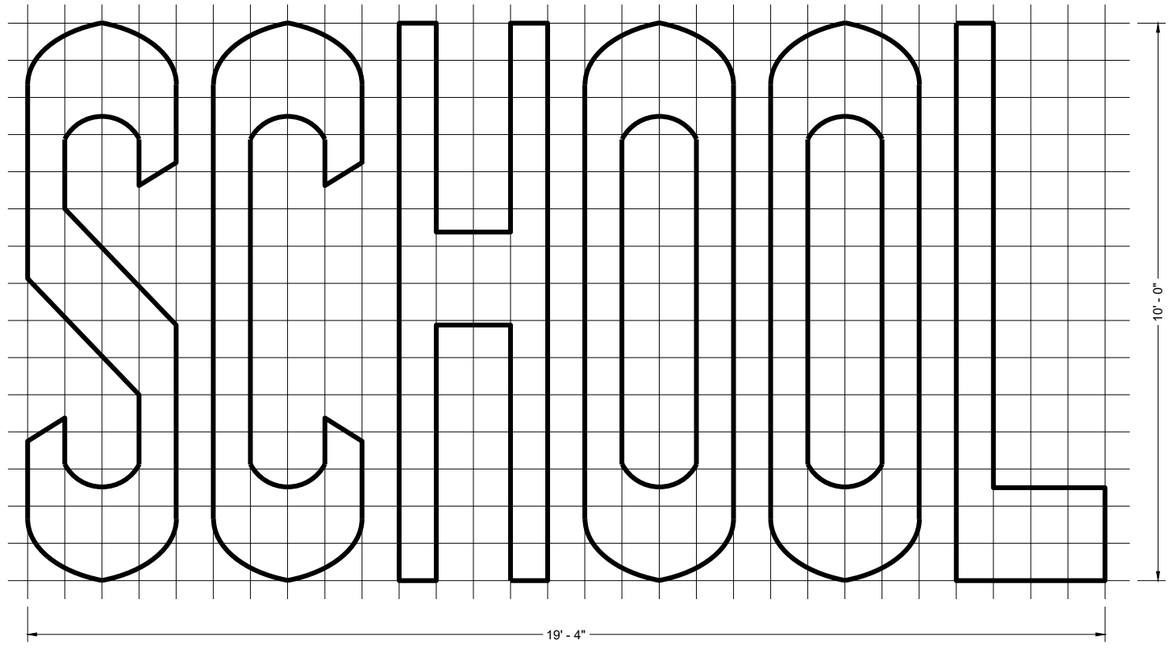








SINGLE LANE



TWO - LANE

GENERAL NOTES

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

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2024 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MARKING ENGINEER

FHWA

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SDD 15C07-16b

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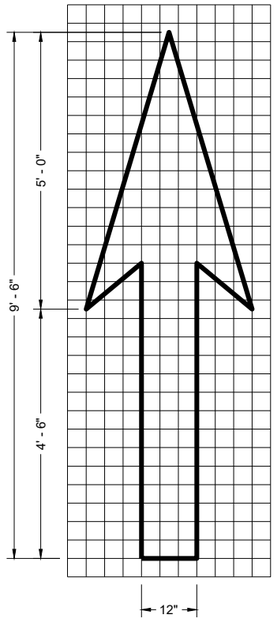
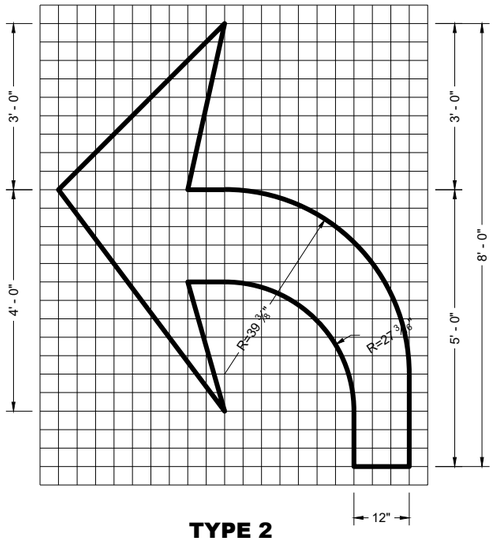
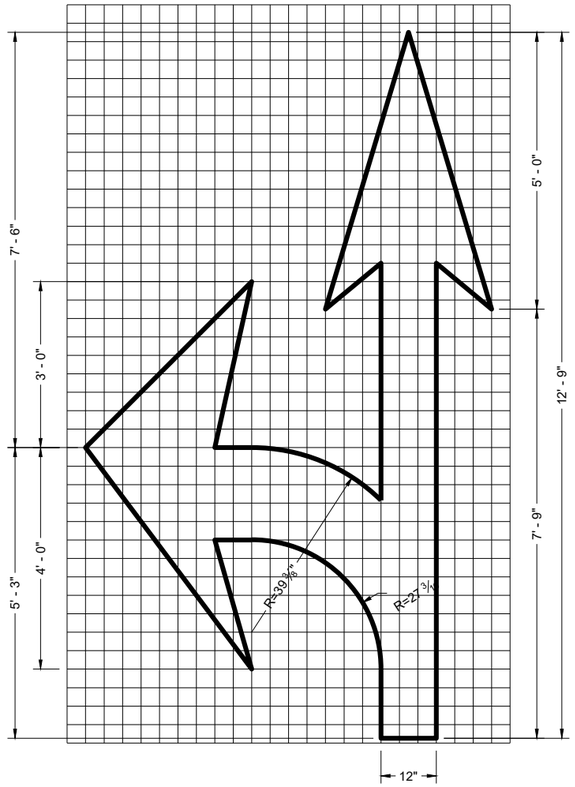
SDD 15C07-16b



TYPE 1



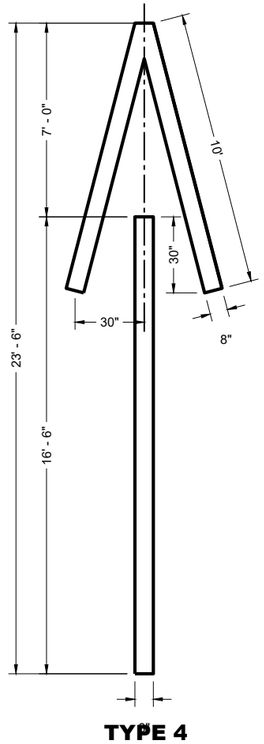
TYPE 2



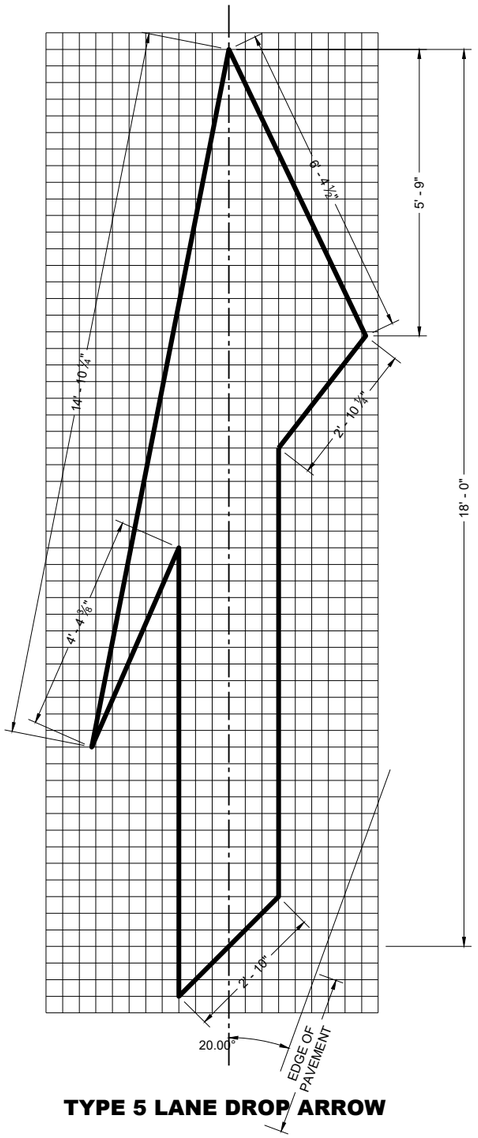
TYPE 3

GENERAL NOTES

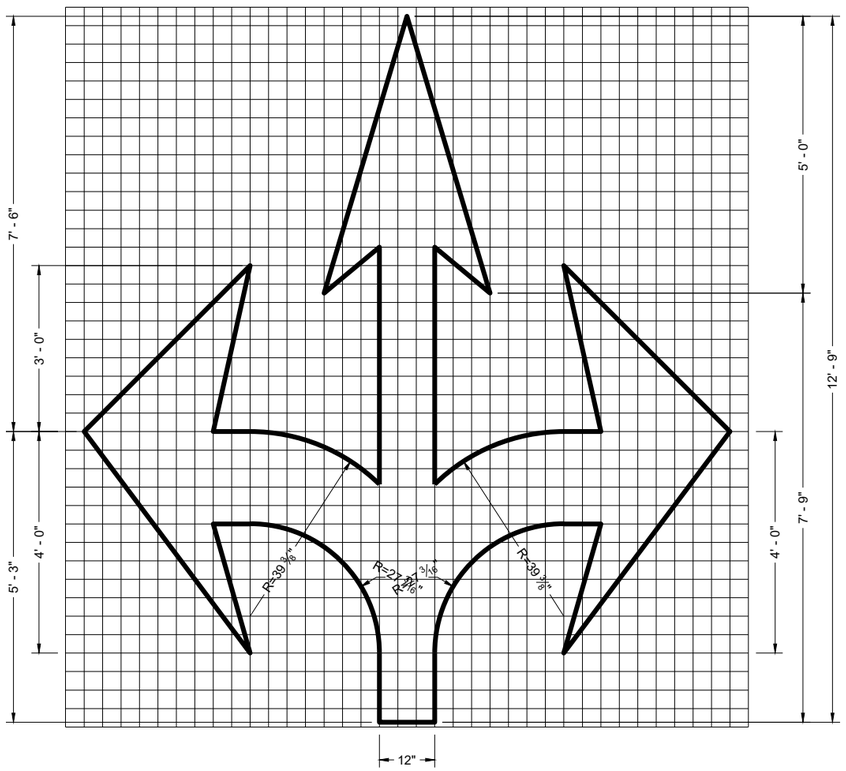
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



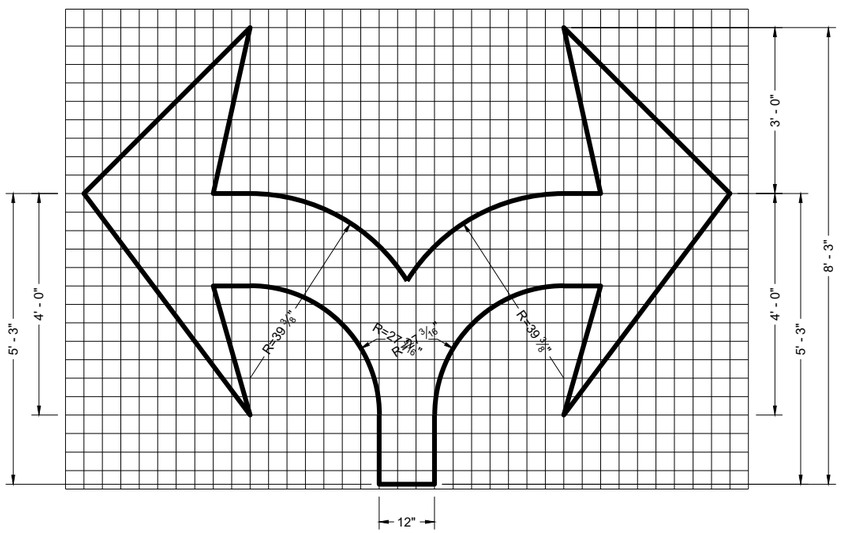
TYPE 4



TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2024
DATE

/S/ Matthew Rauch
STATE SIGNING AND MARKING ENGINEER

FHWA

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SDD 15C07-16c

SDD 15C07-16c

GENERAL NOTES

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

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

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

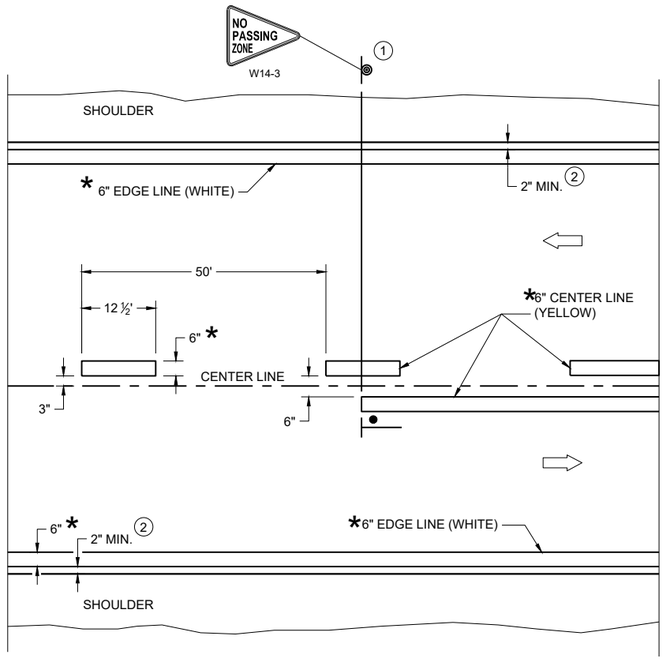
LEGEND

"T" MARKING

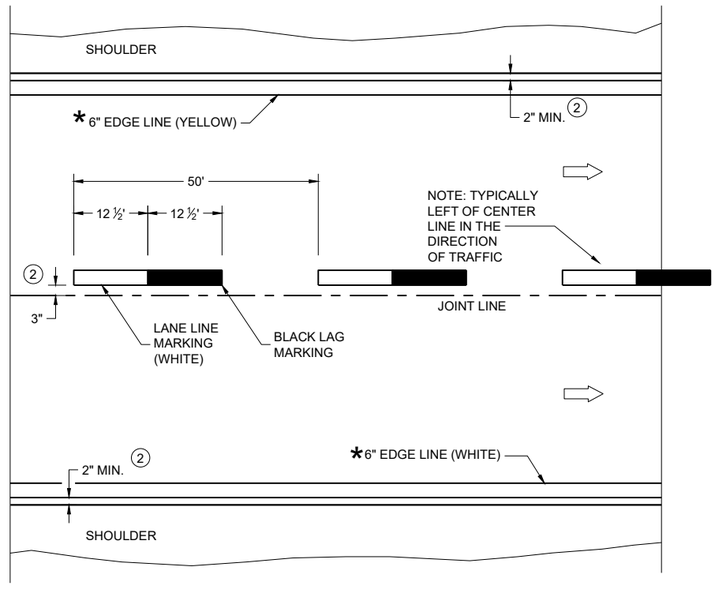
SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



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 Pavement Marking Engineer

FHWA

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SDD 15C08-23a

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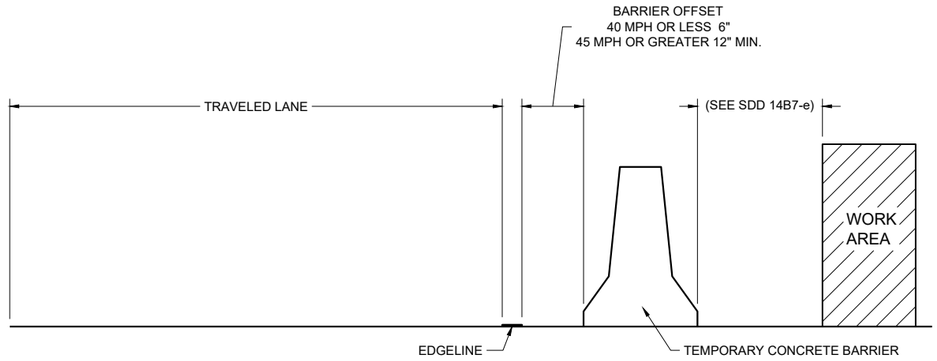
SDD 15C08-23a



TEMPORARY BARRIER OFFSET FROM EDGELINE

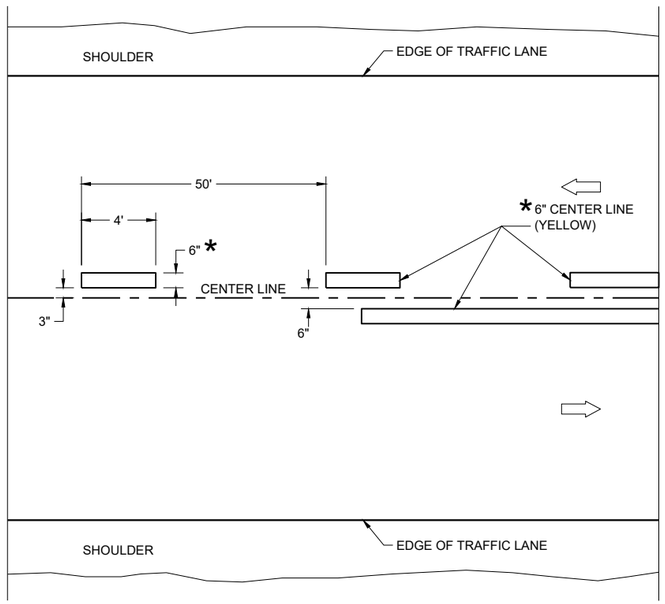
GENERAL NOTES

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

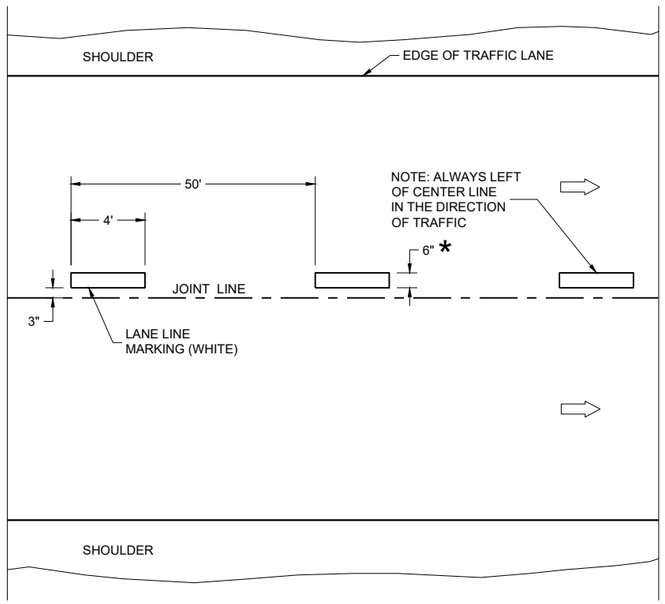
LEGEND

⇨ DIRECTION OF TRAFFIC

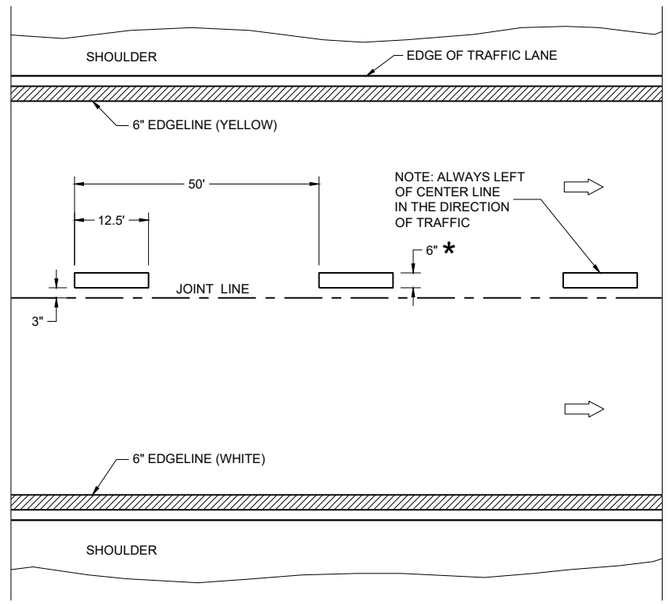
*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



TWO WAY TRAFFIC



ONE WAY TRAFFIC



FREEWAYS AND EXPRESSWAYS

TEMPORARY PAVEMENT MARKING

TEMPORARY LONGITUDINAL PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Jeannie Silver — Statewide Pavement Marking Engineer
FHWA

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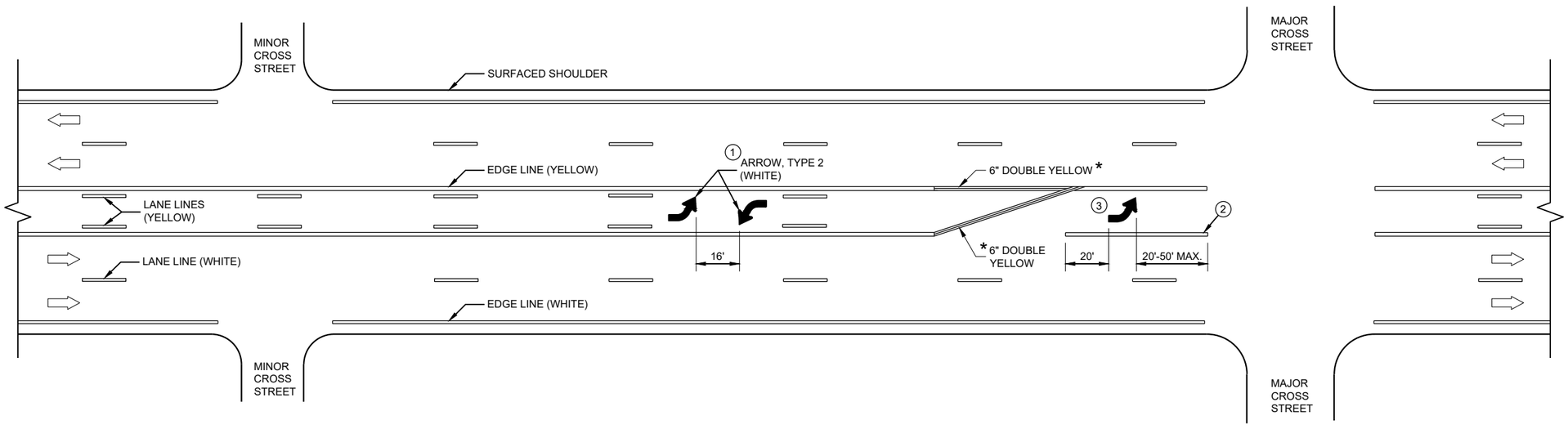
GENERAL NOTES

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· 312

SDD 15C08-23c

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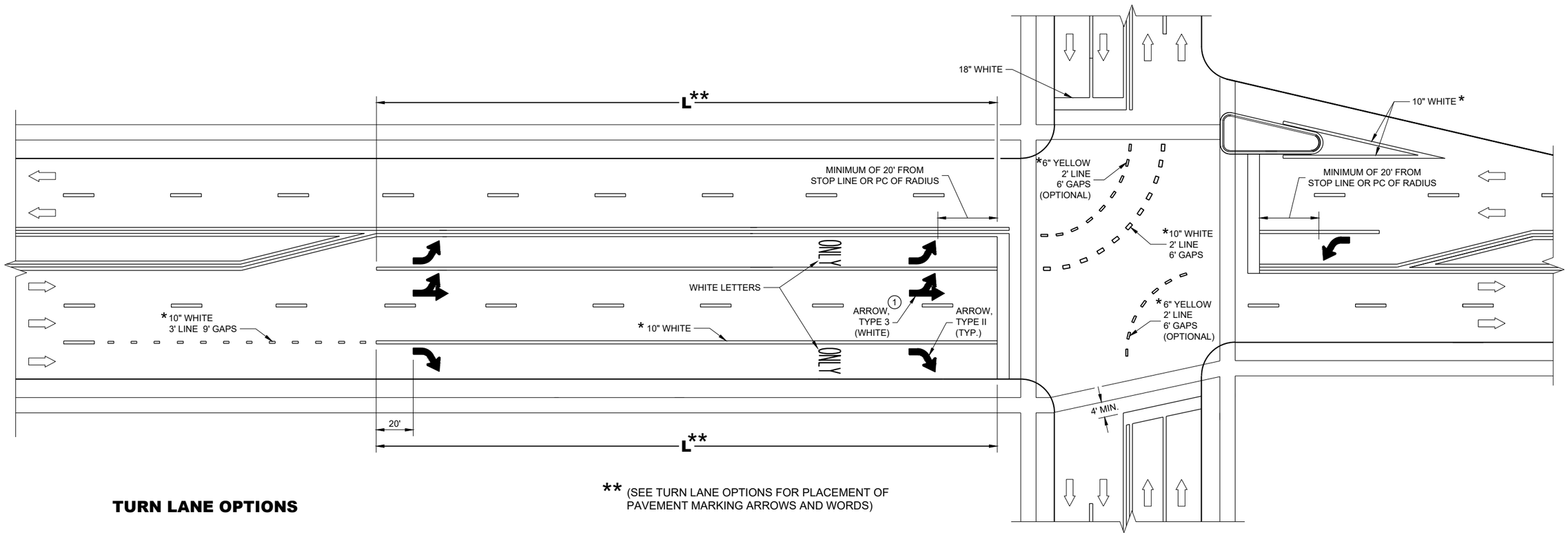
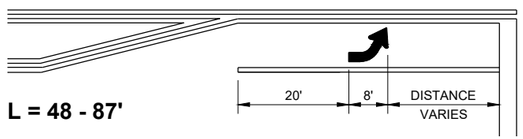
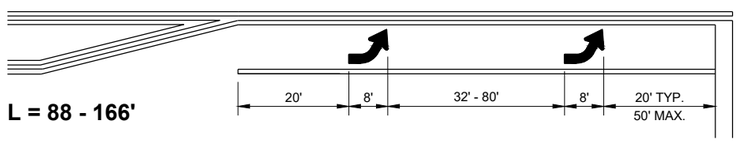


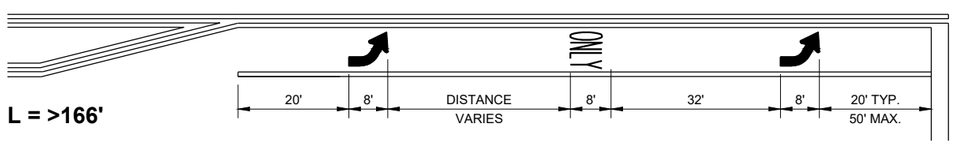
** (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

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







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

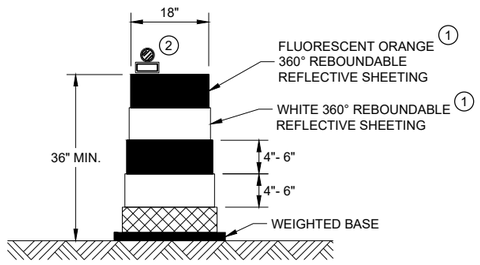
PAVEMENT MARKING (TURN LANES)

SDD 15C08-23d

6

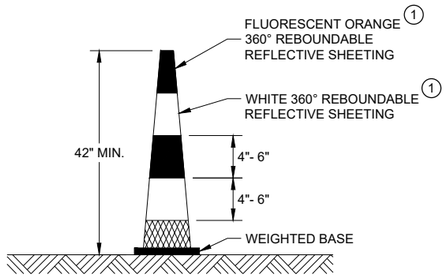
GENERAL NOTES

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

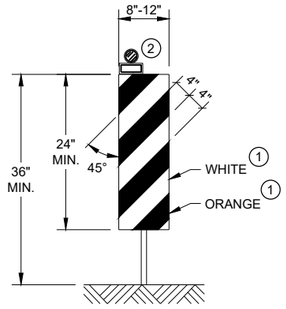
BALLAST WIDTHS
RANGE FROM 24"-36"



42" CONE

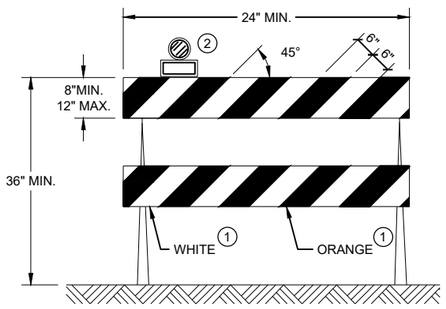
DO NOT USE IN TAPERS
½ SPACING OF DRUMS

BALLAST WIDTHS
RANGE FROM 14"-20"



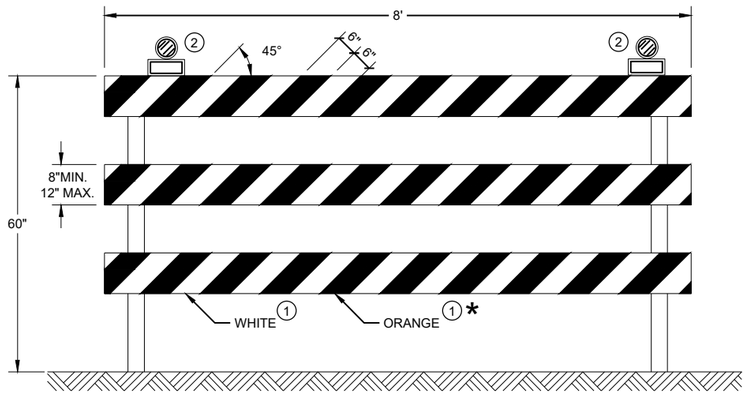
VERTICAL PANEL

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 ENGINEER

FHWA

6

SDD 15C11 - 10b

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LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

TEMPORARY PORTABLE RUMBLE STRIP ARRAY

DIRECTION OF TRAFFIC

WORK AREA

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

GENERAL NOTES

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

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

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

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

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

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

FLAGGING

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

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

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

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

TEMPORARY PORTABLE RUMBLE STRIPS

UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

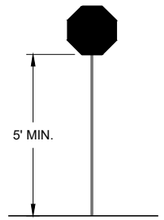
(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

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

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

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



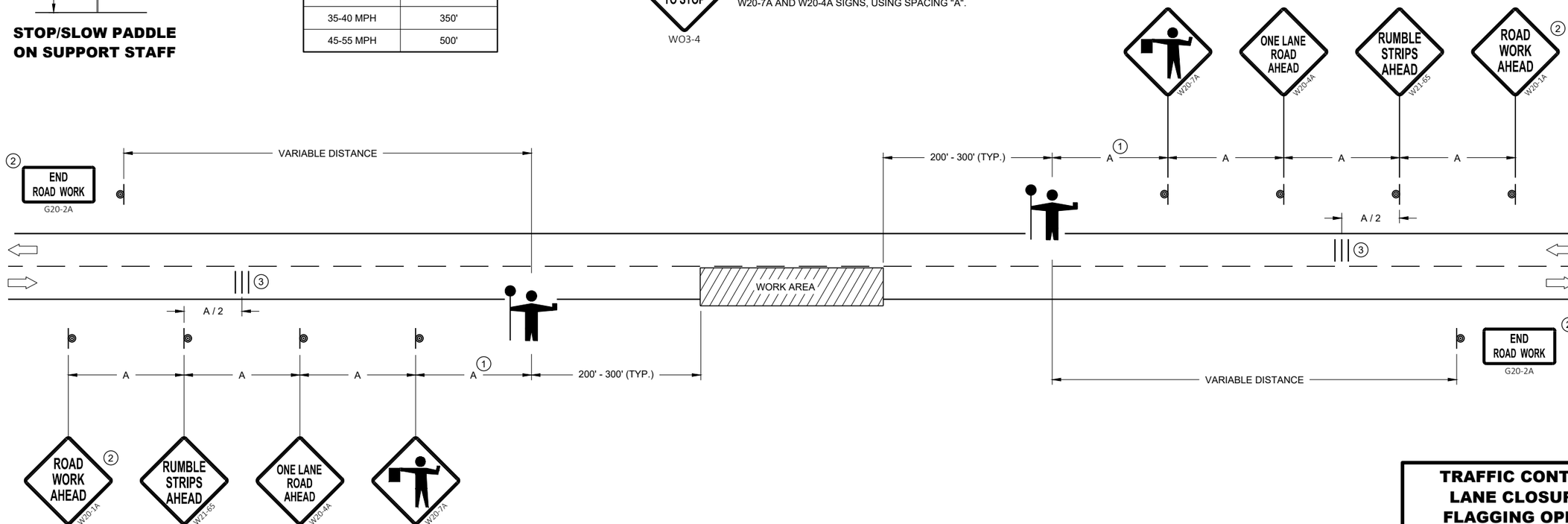
STOP/SLOW PADDLE ON SUPPORT STAFF

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

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

WO3-4

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



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

315

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SDD 15C12 - 09a

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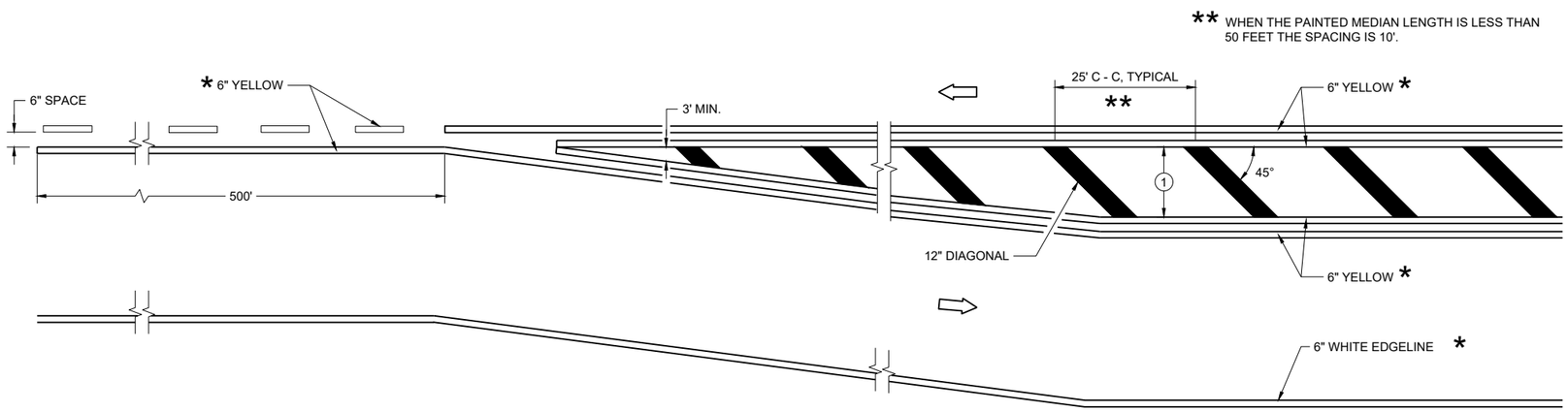
SDD 15C12 - 09a



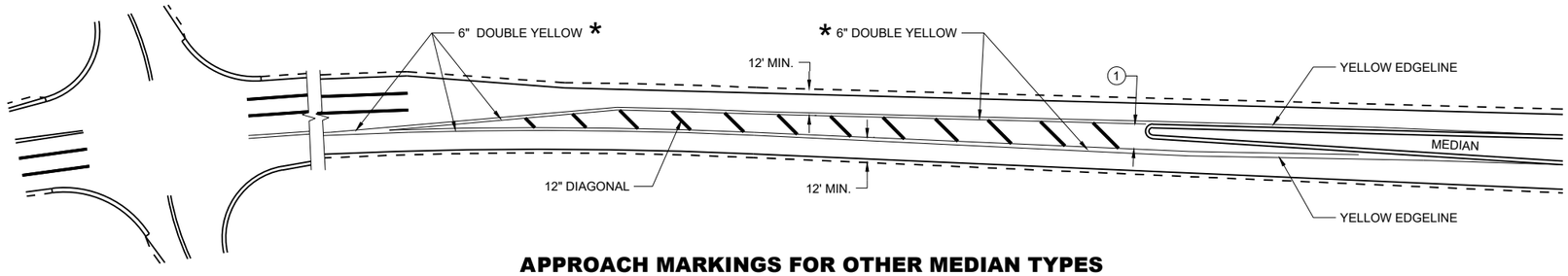
MEDIAN ISLAND DETAIL

GENERAL NOTES

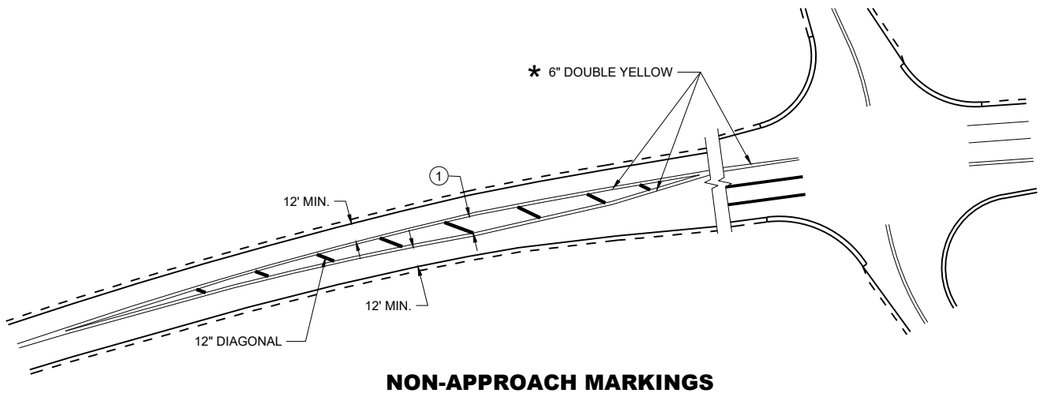
(1) DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT THE WIDEST POINT. OMIT DIAGONALS IF WIDTH IS LESS THAN 4 FEET.

DIRECTION OF TRAVEL

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON-APPROACH MARKINGS

MEDIAN ISLAND PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2024
DATE

/S/ Jeannie Silver
Statewide Pavement Marking Engineer

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SDD 15C18-09a

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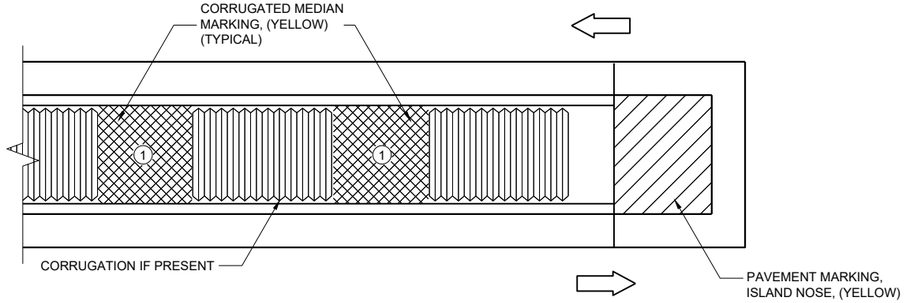
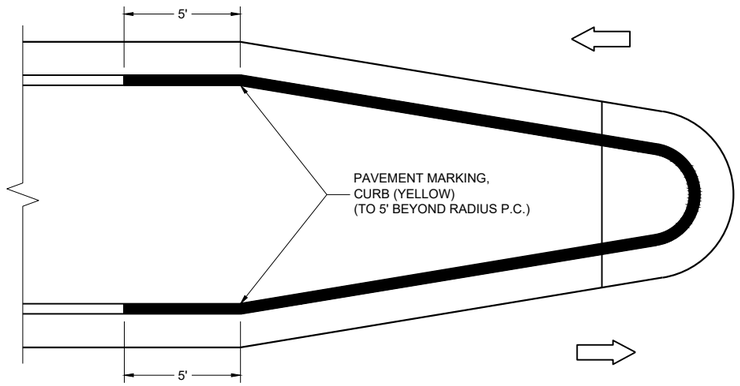
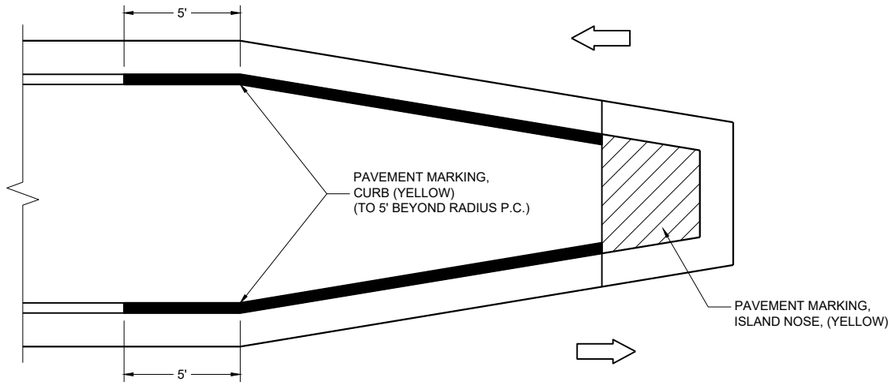


MEDIAN ISLAND WITH SQUARE BLUNT NOSE



MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

**TYPICAL PLACEMENT OF
PAVEMENT MARKING ON MEDIAN ISLANDS**

GENERAL NOTES

WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION, YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.

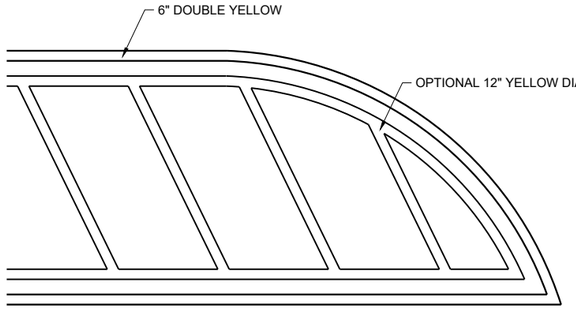
(1) APPLY PAVEMENT MARKING TO THE FLAT PORTION OF CORRUGATED MEDIAN.

ISLAND NOSE MARKING

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL



FLUSH MEDIAN ISLAND NOSE

**PAVEMENT MARKINGS,
MEDIAN ISLAND NOSE**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2024
DATE

/S/ Jeannie Silver
Statewide Pavement Marking Engineer

FHWA

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SDD 15C18-09b

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

GENERAL NOTES

APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.

SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.

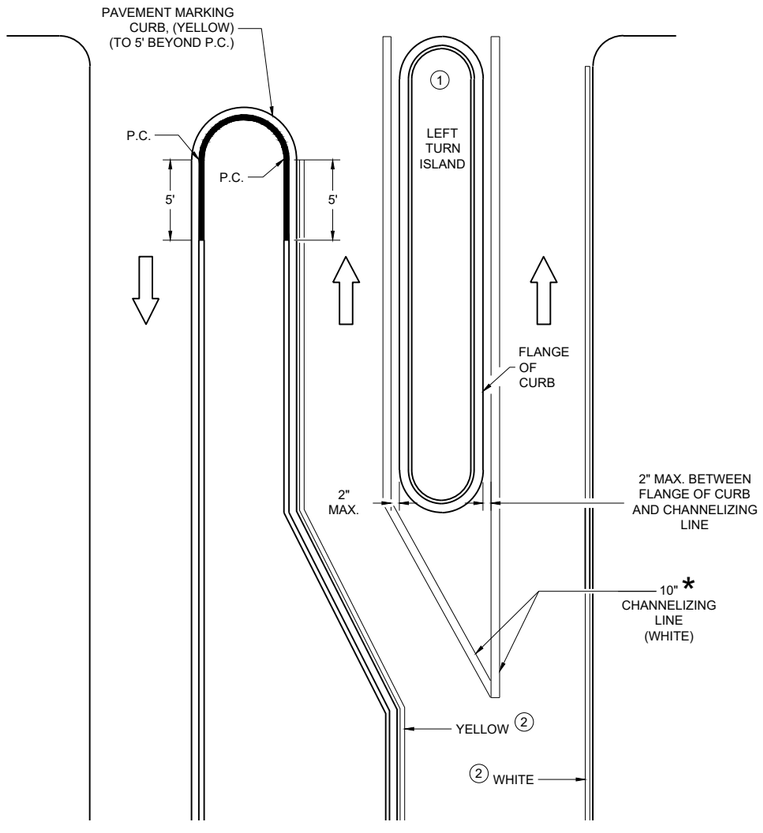
(1) MARK CURB NOSES YELLOW.

(2) MARK ACCORDING TO TABLE.

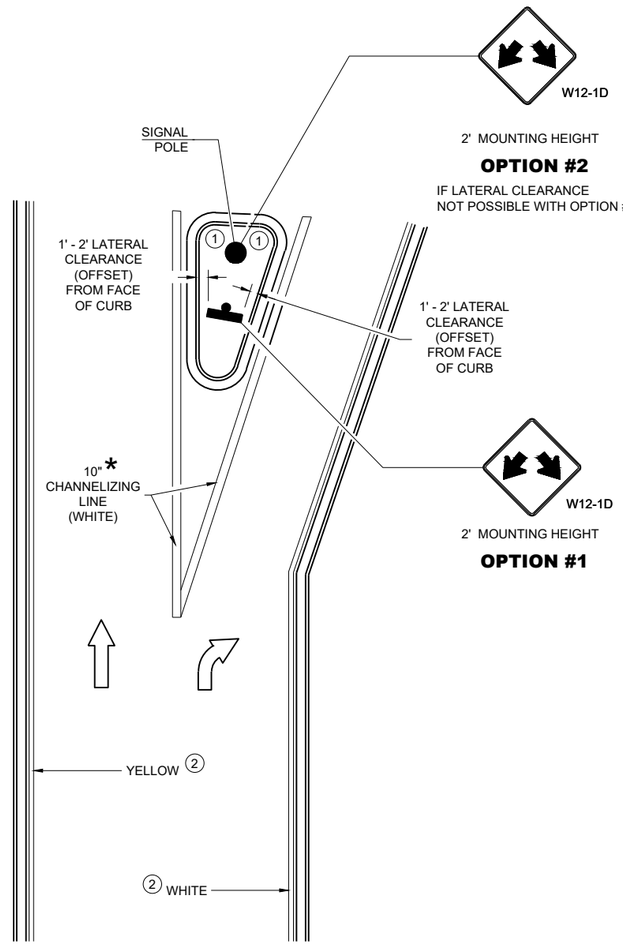
(3) CHEVRON MAY BE OMITTED IF LESS THAN 4" WIDE

DIRECTION OF TRAVEL

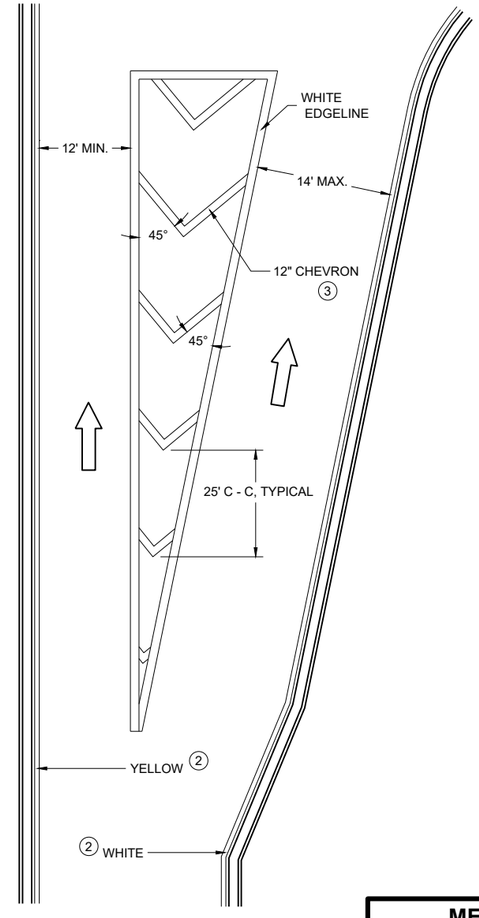
*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



LEFT TURN & MEDIAN ISLAND



RIGHT TURN ISLAND



TURN LANE DETAIL

MEDIAN PAVEMENT MARKINGS, DOUBLE ARROW WARNING SIGN PLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2024
DATE

/S/ Jeannie Silver
Statewide Pavement Marking Engineer

FHWA

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SDD 15C18-09c

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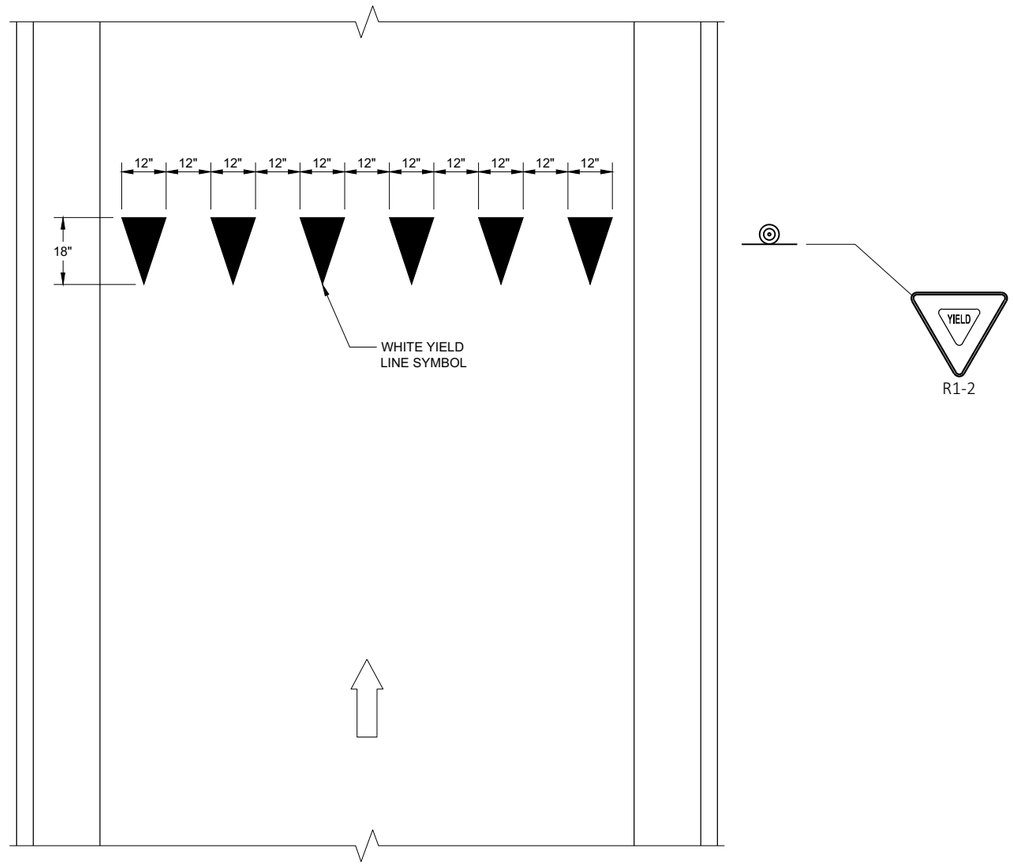
SDD 15C18-09c

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAVEL



R1-2

YIELD LINE

YIELD MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4-81-2016
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MAR ENGINEER

FHWA

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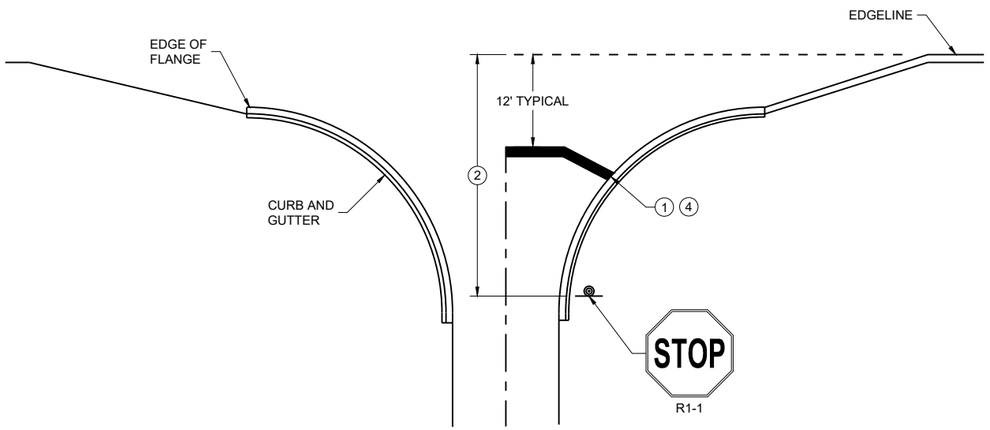
SDD 15C20 - 02

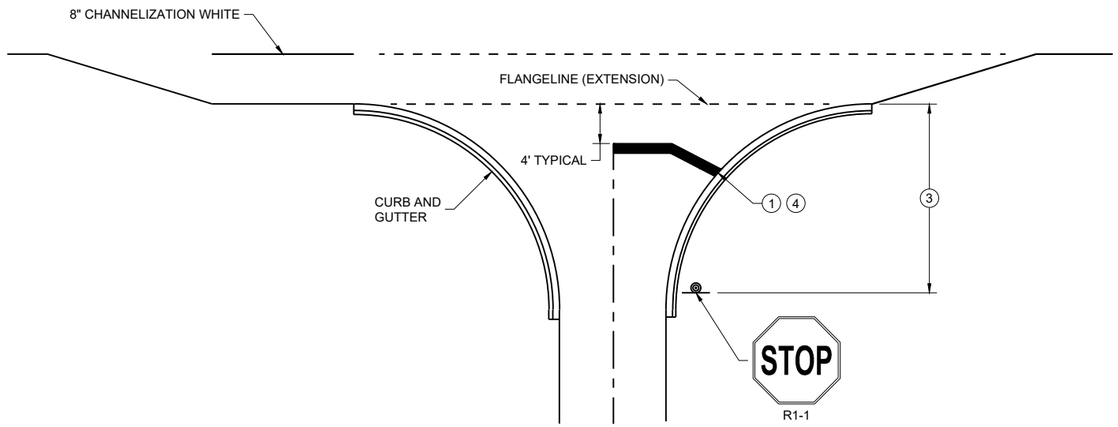
GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

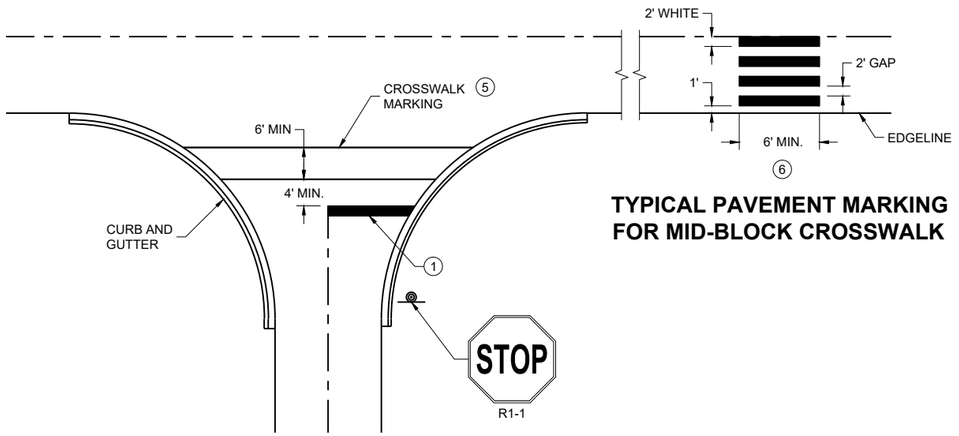
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGE LINE 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.
6. POSTED SPEED LIMITS OF 40 MPH OR GREATER USE A MINIMUM WIDTH OF 8' FOR MIDBLOCK CROSSWALKS



TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

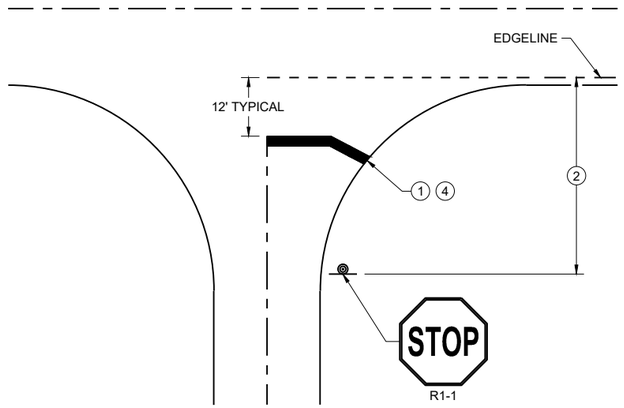


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDE ROADS WITH RIGHT TURN LANE



TYPICAL PAVEMENT MARKING FOR MID-BLOCK CROSSWALK 5

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDE ROADS 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

March 2024 — DATE

/S/ Matthew Rauch — STATE SIGNING AND MARKING ENGINEER

FHWA

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SDD 15C33-05

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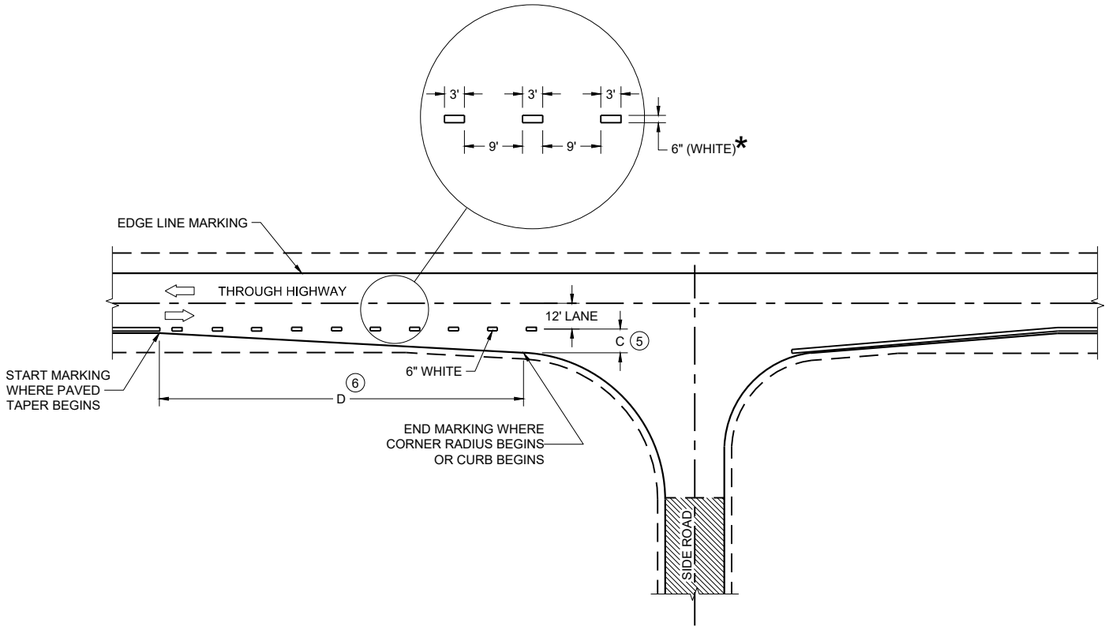
SDD 15C33-05



MINOR INTERSECTION

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

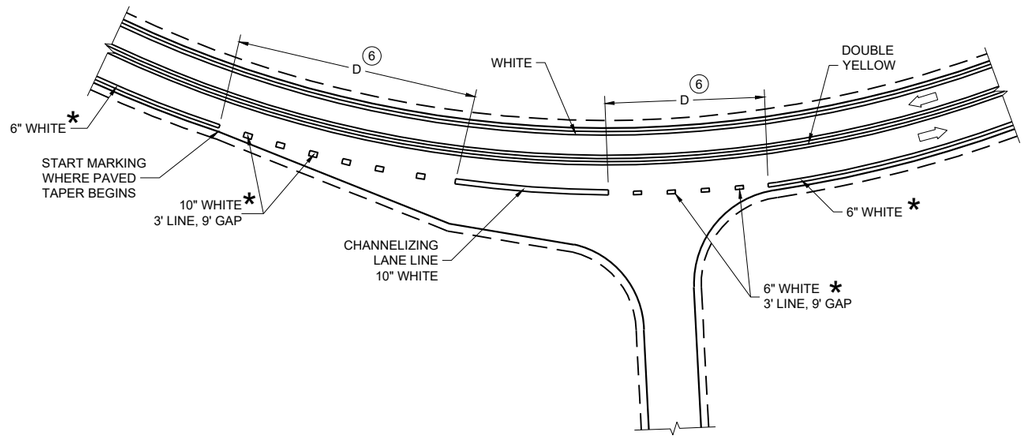
GENERAL NOTES

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

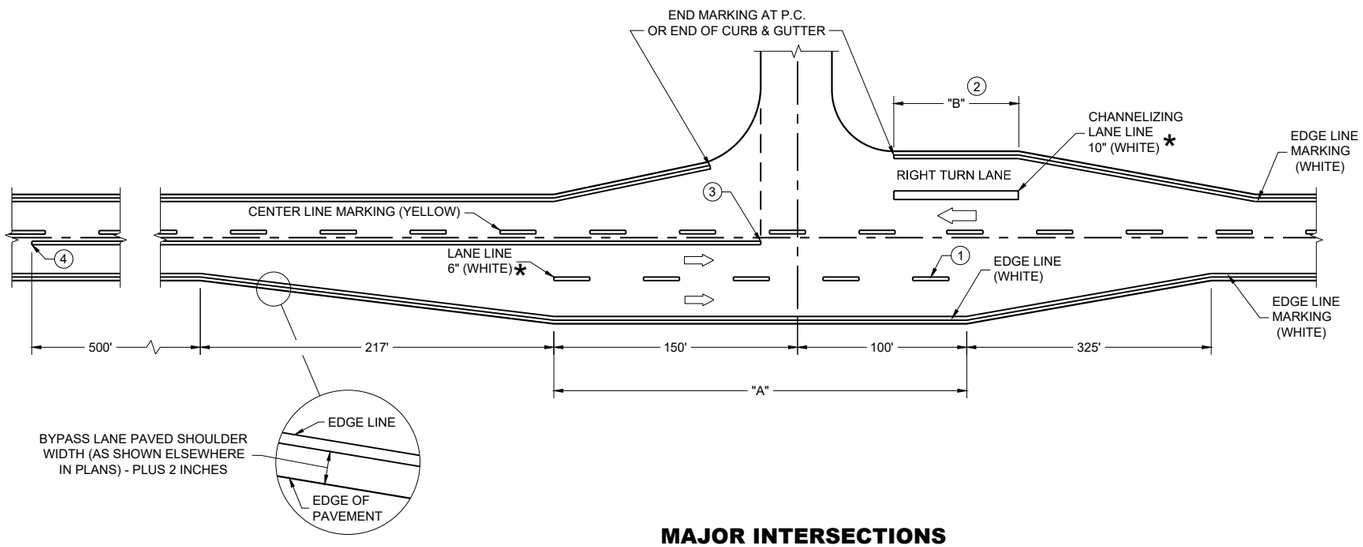
1. WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
2. WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
3. BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
4. BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.
5. WHEN DISTANCE "C" IS LESS THAN 4 FEET,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

LEGEND

DIRECTION OF TRAVEL



INTERSECTION ON OUTSIDE OF CURVE



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

PAVEMENT MARKING (INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKINGS
- DIRECTION OF TRAFFIC
- WORK AREA
- CONNECTED ARROW BOARD
- WZ START LOCATION MARKER
- WZ END LOCATION MARKER

GENERAL NOTES

FOR WORK ON ROADWAYS WITH SPEEDS GREATER THAN 45MPH, USE SDD 15D12.

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"X 36" SIGNS MAY BE USED IF APPROVED BY REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON TEMPORARY SUPPORTS.

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

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

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

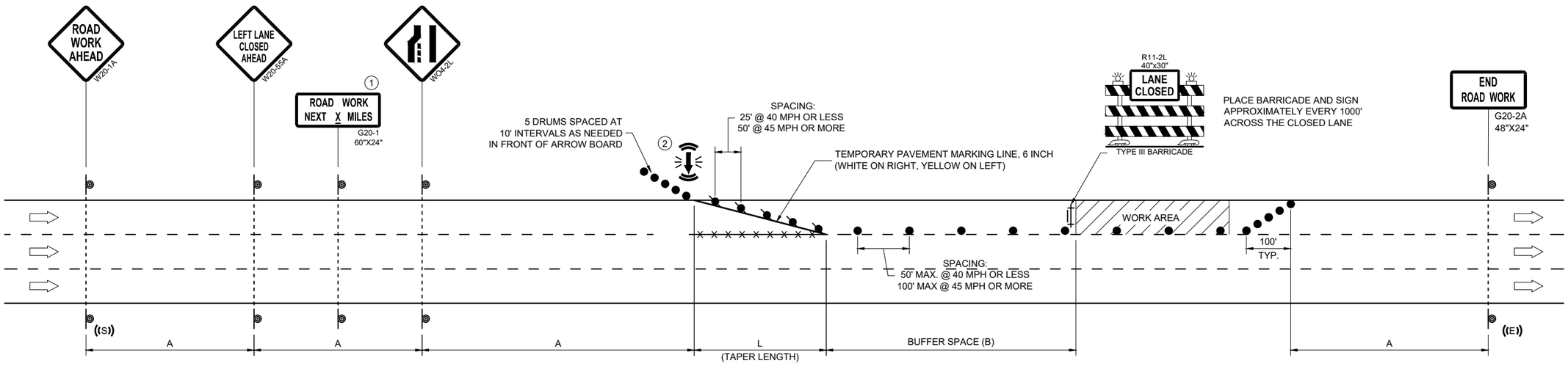
BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

(1) OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

(2) WHERE THE SHOULDER OR TERRACE HAS INSUFFICIENT SPACE TO PLACE THE ARROW BOARD AS SHOWN, PLACE THE ARROW BOARD AT THE END OF THE TAPER.



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
25	200'	125'	55'
30	200'	180'	85'
35	350'	245'	120'
40	350'	320'	170'
45	500'	540'	220'

TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2024
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

SDD 15D20-09a

6

SDD 15D20-09a

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKINGS
- DIRECTION OF TRAFFIC
- WORK AREA
- CONNECTED ARROW BOARD
- WZ START LOCATION MARKER
- WZ END LOCATION MARKER

GENERAL NOTES

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"X 36" SIGNS MAY BE USED IF APPROVED BY REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON TEMPORARY SUPPORTS.

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

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

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

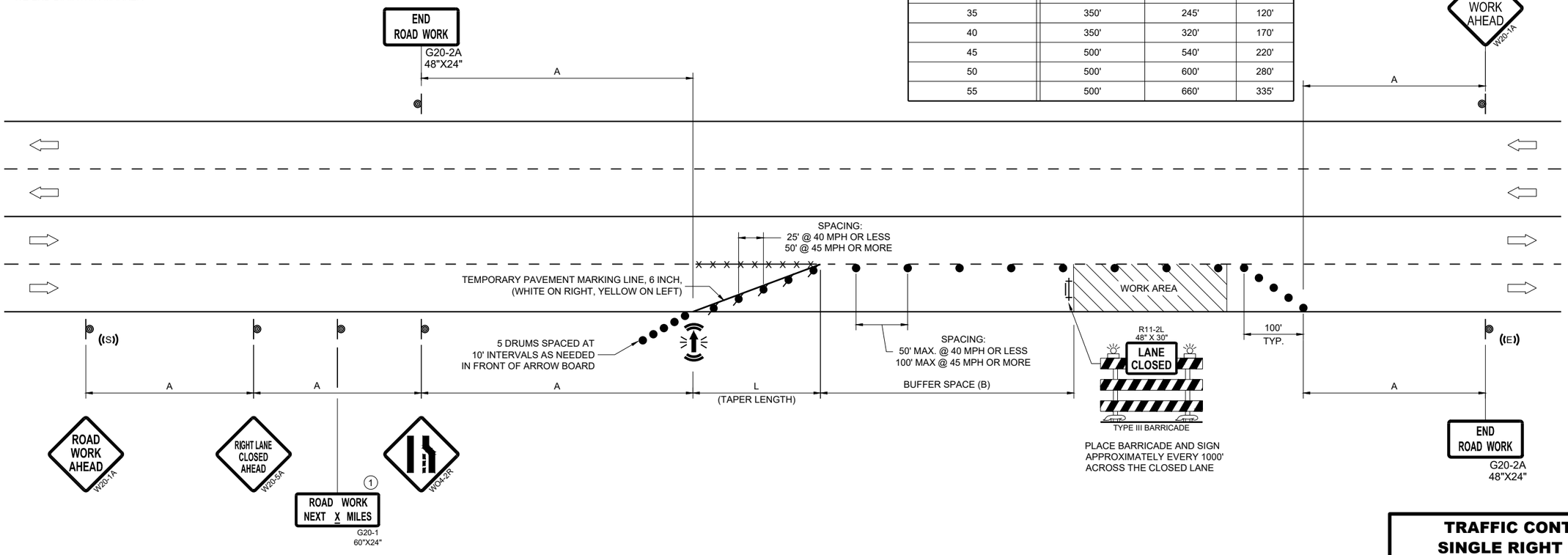
BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

(1) OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
25	200'	125'	55'
30	200'	180'	85'
35	350'	245'	120'
40	350'	320'	170'
45	500'	540'	220'
50	500'	600'	280'
55	500'	660'	335'



TRAFFIC CONTROL, SINGLE RIGHT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

November 2024
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

SDD 15D20-09b

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKINGS
- DIRECTION OF TRAFFIC
- WORK AREA
- CONNECTED ARROW BOARD
- WZ START LOCATION MARKER
- WZ END LOCATION MARKER

GENERAL NOTES

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"X 36" SIGNS MAY BE USED IF APPROVED BY REGIONAL TRAFFIC UNIT.

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SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON TEMPORARY SUPPORTS.

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W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

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CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

DUE TO LACK OF SHOULDER/MEDIAN, ARROW BOARD IS PLACED AT THE THE END OF THE TAPER.

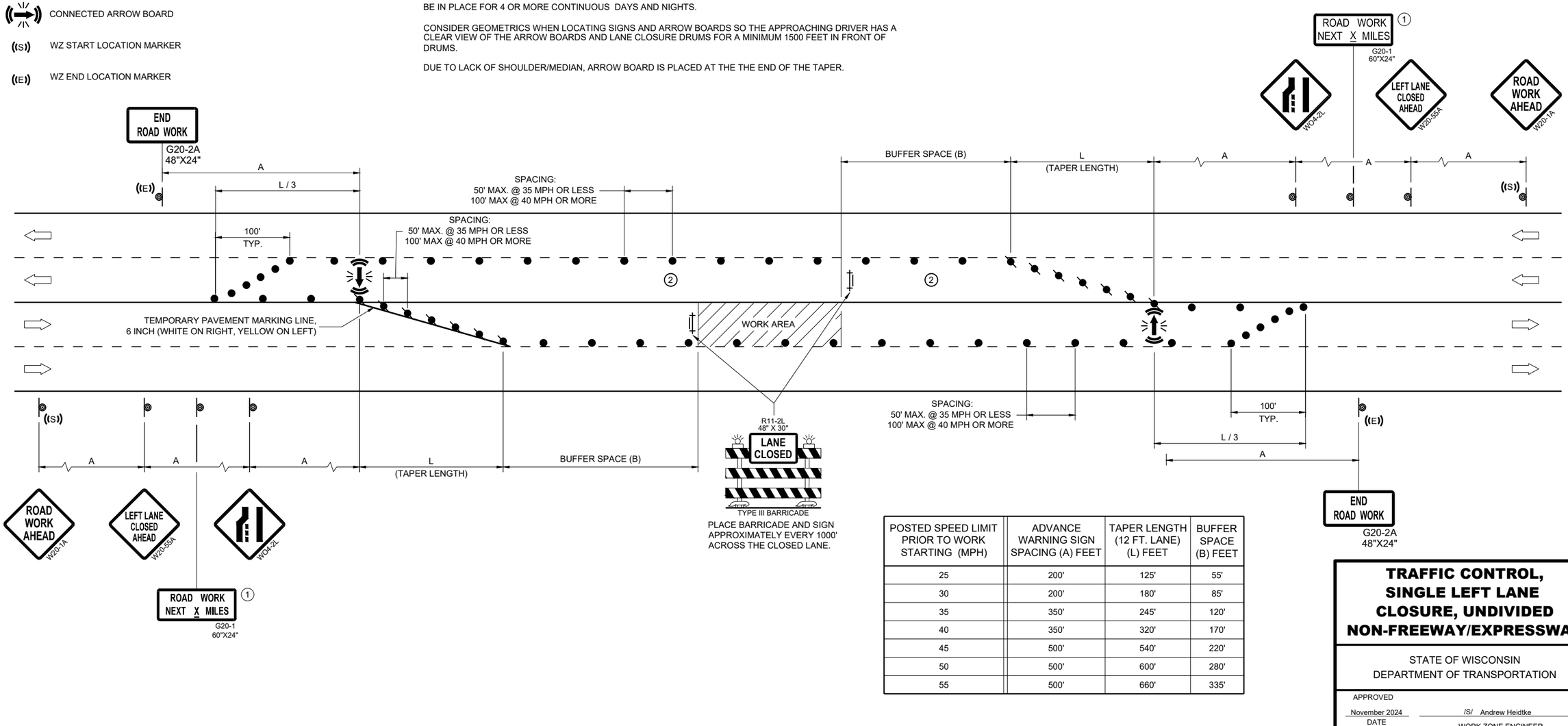
BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

(1) OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

(2) LANE MAY BE OPENED WHEN WORKERS ARE NOT PRESENT IN THE WORK AREA.



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
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35	350'	245'	120'
40	350'	320'	170'
45	500'	540'	220'
50	500'	600'	280'
55	500'	660'	335'

TRAFFIC CONTROL, SINGLE LEFT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

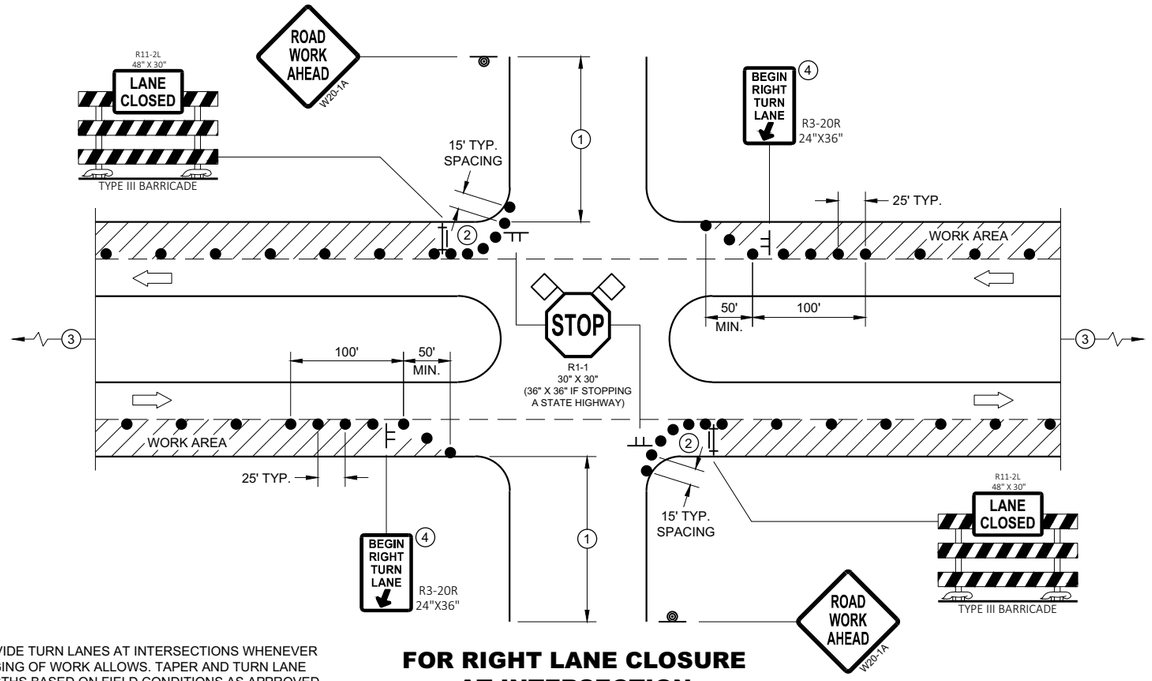
APPROVED

November 2024
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

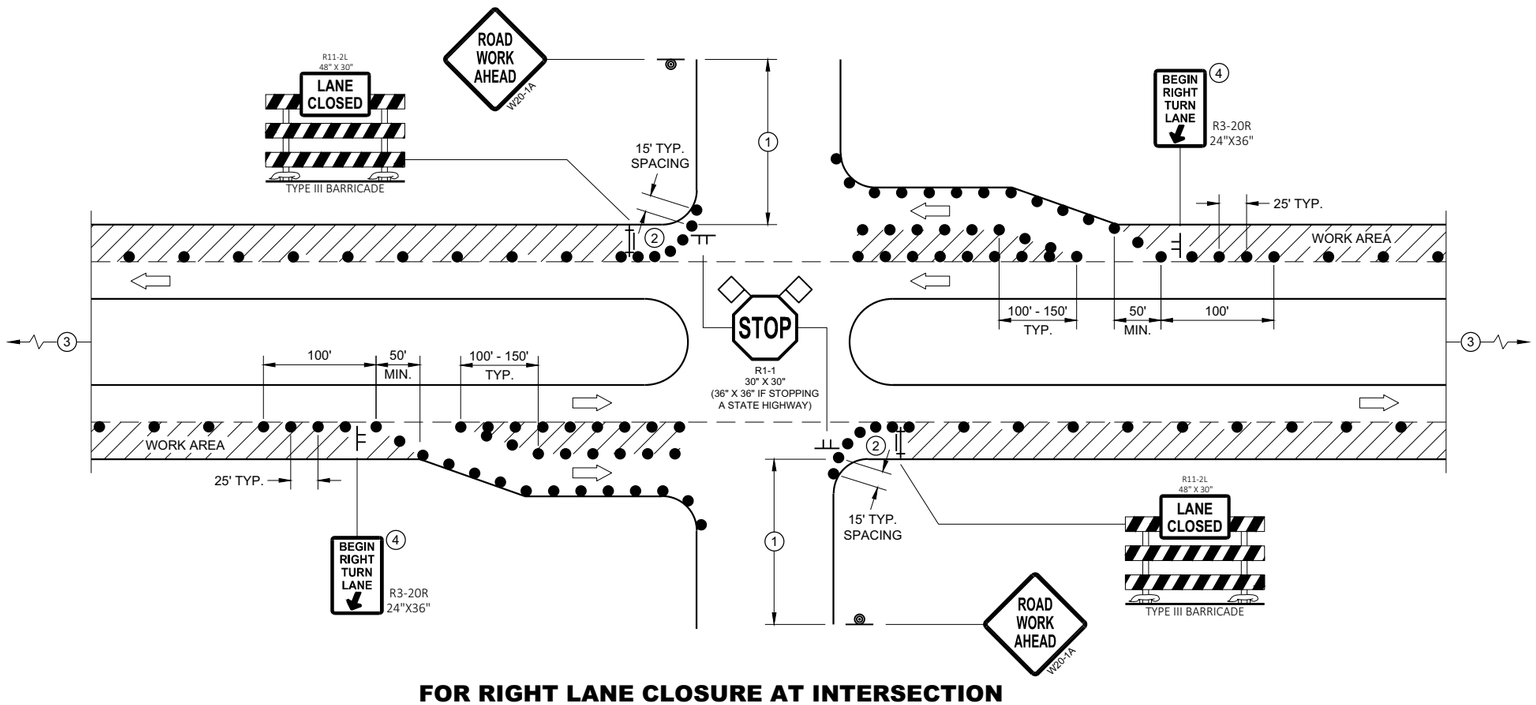
FHWA

6
SDD 15D20-09c



FOR RIGHT LANE CLOSURE AT INTERSECTION

PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.



FOR RIGHT LANE CLOSURE AT INTERSECTION (WITH RIGHT TURN BAY OPEN)

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" MAY BE USED IF APPROVED BY THE DISTRICT TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

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

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

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL REMAIN IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON PORTABLE SUPPORTS.

BARRICADES IN A CLOSED LANE 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.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

(1) 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35 - 40 MPH.
200' IF 25 - 30 MPH.

(2) ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.

(4) MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION) TO BOTTOM OF SIGN.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., ORANGE
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE RIGHT LANE CLOSURE

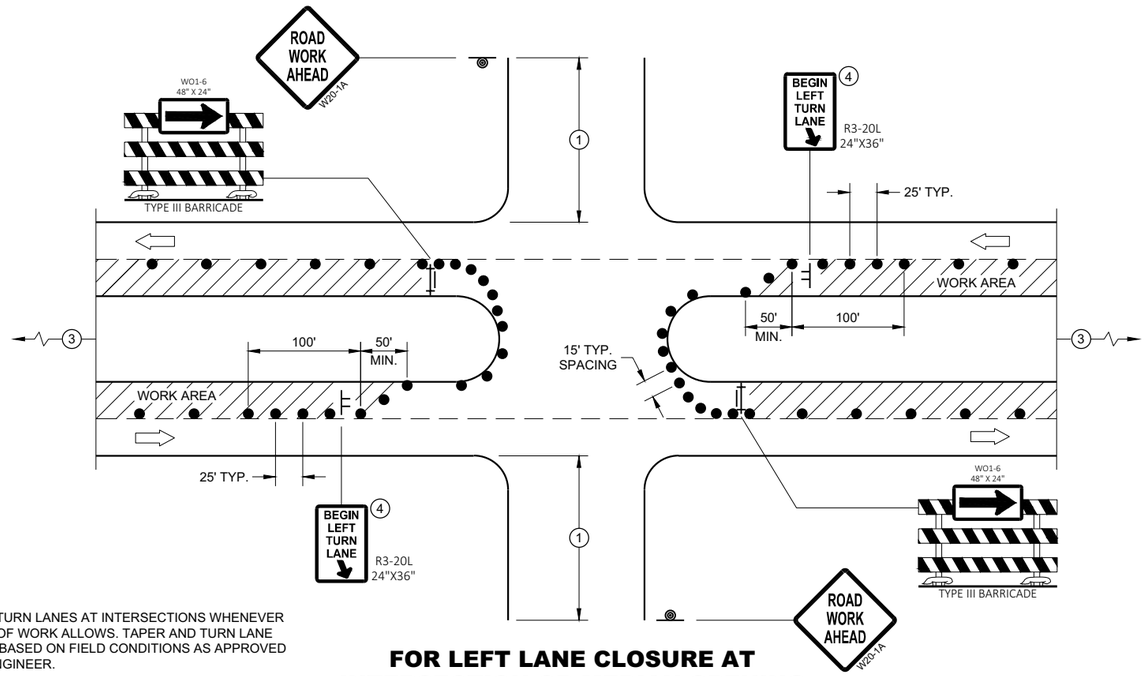
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15D21 - 07a

6

SDD 15D21 - 07a



PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" MAY BE USED IF APPROVED BY THE DISTRICT TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

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

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

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL REMAIN IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON PORTABLE SUPPORTS.

BARRICADES IN A CLOSED LANE 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.

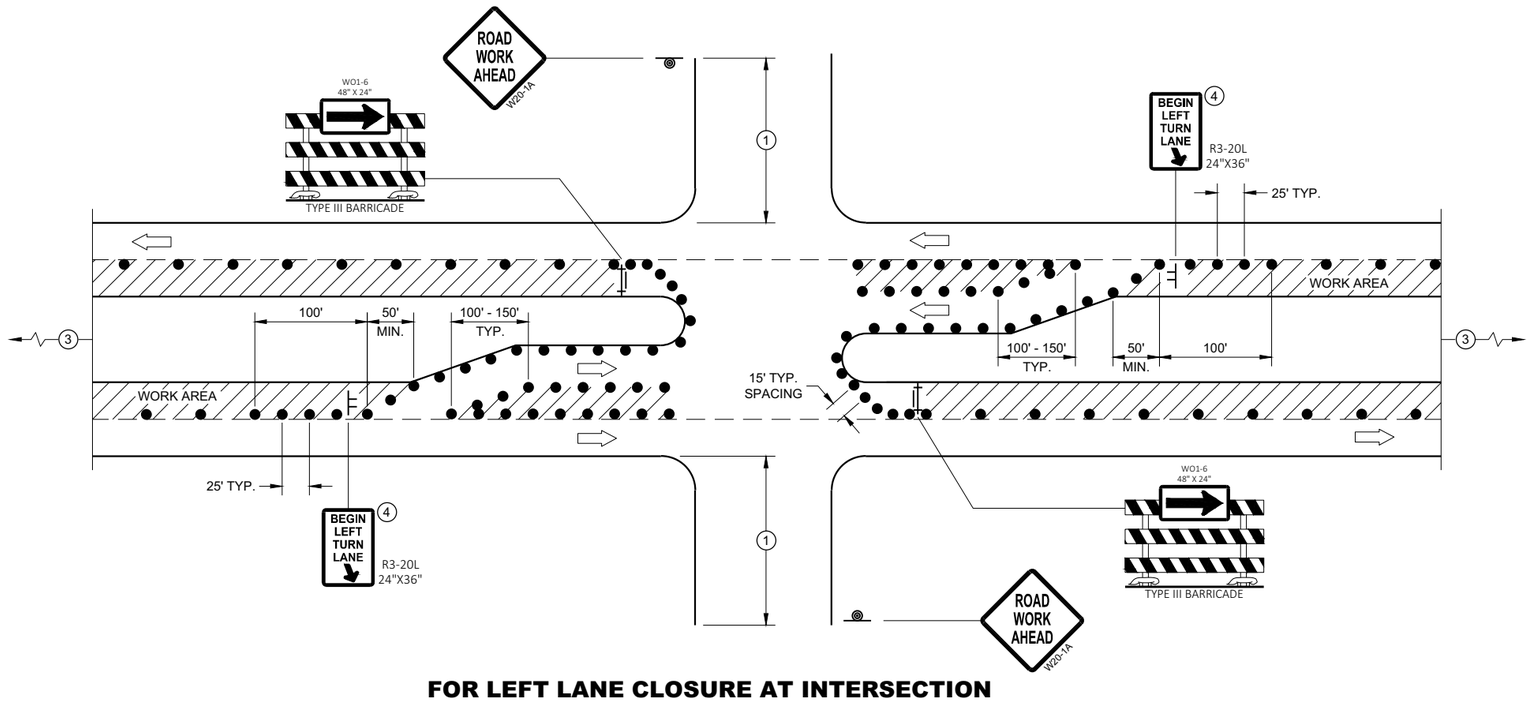
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

(1) 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35 - 40 MPH.
200' IF 25 - 30 MPH.

(2) ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.

(4) MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION) TO BOTTOM OF SIGN.



FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING (WITH LEFT TURN BAY OPEN)

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., ORANGE
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LEFT LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

6

SDD 15D21 - 07b

6

SDD 15D21 - 07b

LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- FLASHING ARROW BOARD
- WORK AREA

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT SHOULDER. FOR CLOSING THE LEFT SHOULDER, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR DIVIDED ROADWAYS WITH ANY NUMBER OF TRAVEL LANES.

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

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

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

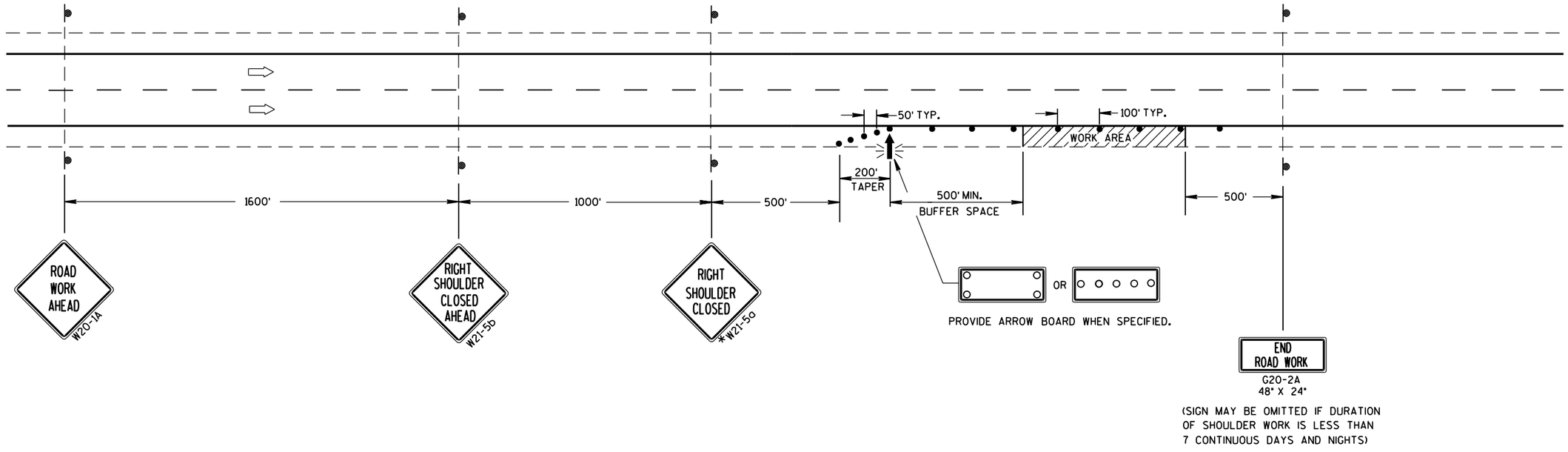
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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.

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

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

*FOR SHORT DURATION SHOULDER WORK OF LESS THAN ONE HOUR, THE W21-5a SIGN MAY BE OMITTED.



TRAFFIC CONTROL SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2016 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO[illegible] SAFETY ENGI[illegible]

FHWA

6

S.D.D. 15 D 27-3

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- DIRECTION OF TRAFFIC
- WORK ZONE

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

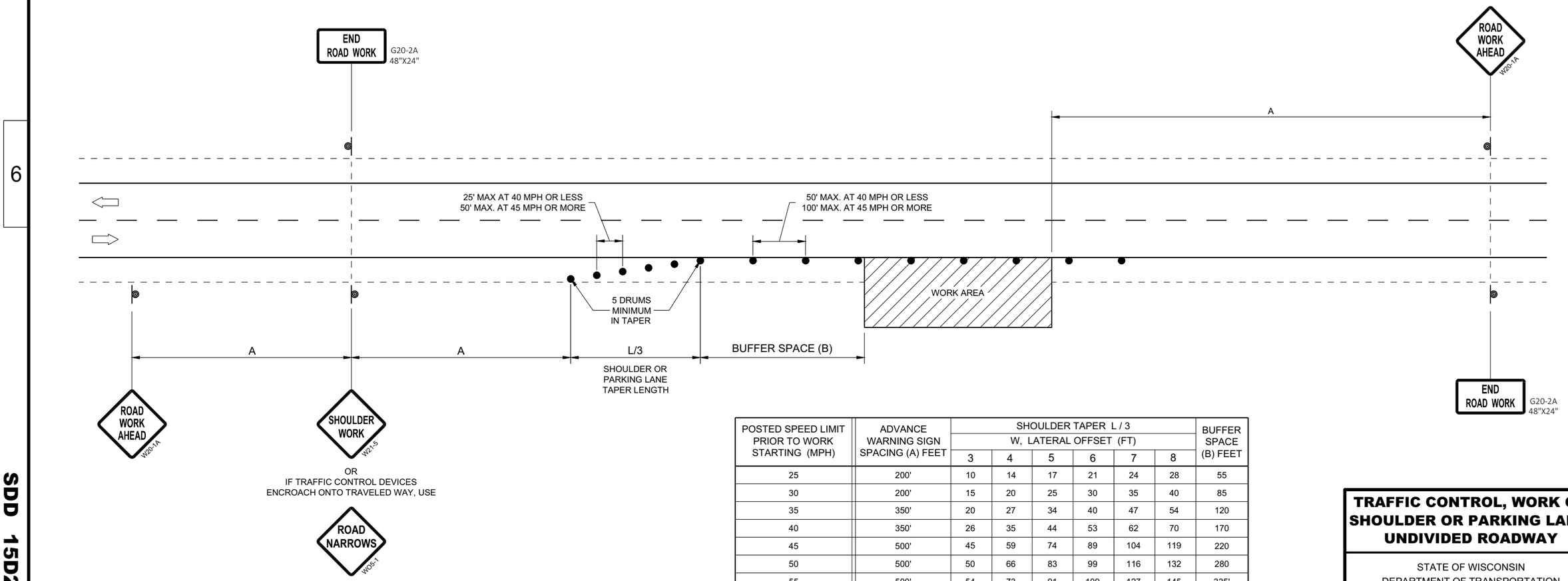
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

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

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

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

W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHOULDER TAPER L / 3 W, LATERAL OFFSET (FT)						BUFFER SPACE (B) FEET
		3	4	5	6	7	8	
25	200'	10	14	17	21	24	28	55
30	200'	15	20	25	30	35	40	85
35	350'	20	27	34	40	47	54	120
40	350'	26	35	44	53	62	70	170
45	500'	45	59	74	89	104	119	220
50	500'	50	66	83	99	116	132	280
55	500'	54	73	91	109	127	145	335'

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020
DATE

/S/ Andrew Heidtke
STATEWIDE WORK ZONE T SAFETY ENGINEER

FHWA

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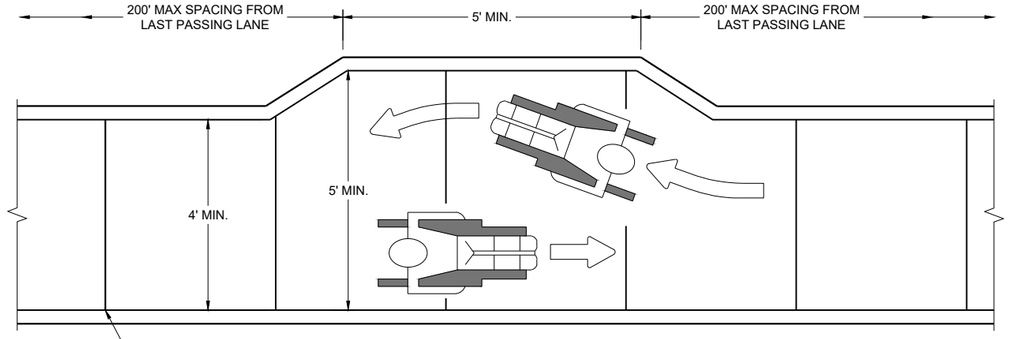
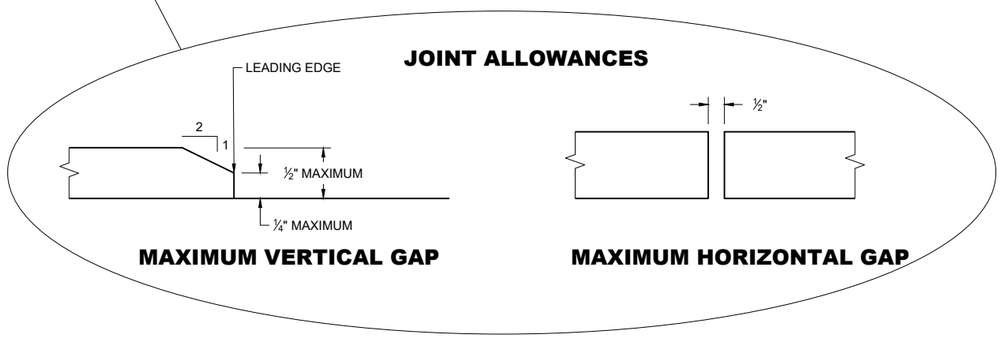
SDD 15D28 - 04



NARROW SIDEWALK PASSING DETAIL



MAXIMUM VERTICAL GAP

MAXIMUM HORIZONTAL GAP

GENERAL NOTES

BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

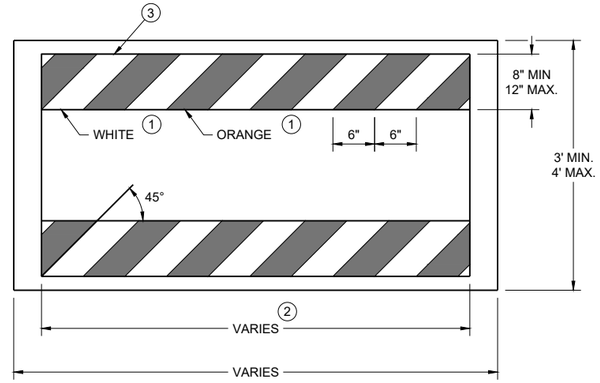
(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

(2) SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.

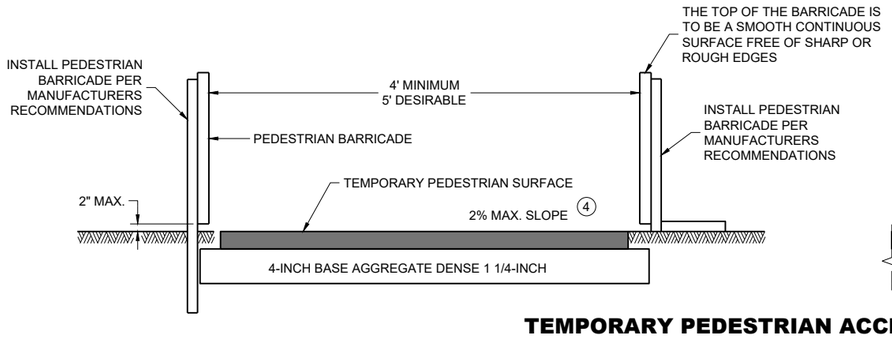
(3) PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.

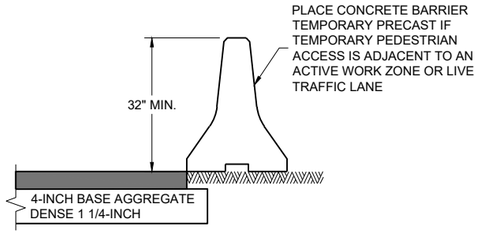
* USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.

(4) WHEN THE TEMPORARY PEDESTRIAN ACCESS ROUTE RUNS PARALLEL ON THE ROADWAY SURFACE, THE MAXIMUM CROSS SLOPE WILL MATCH THE EXISTING ROADWAY CROSS SLOPE.



TEMPORARY PEDESTRIAN BARRICADE *





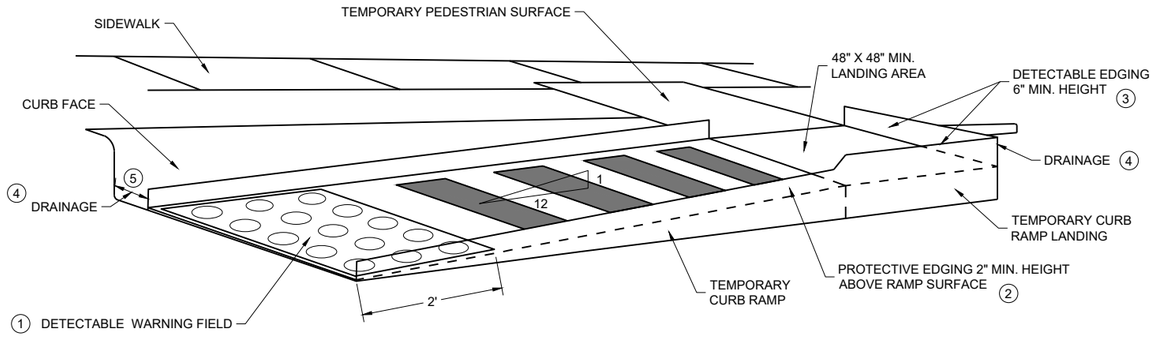
TEMPORARY PEDESTRIAN ACCESS

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15D30-10a



PERSPECTIVE VIEW

GENERAL NOTES

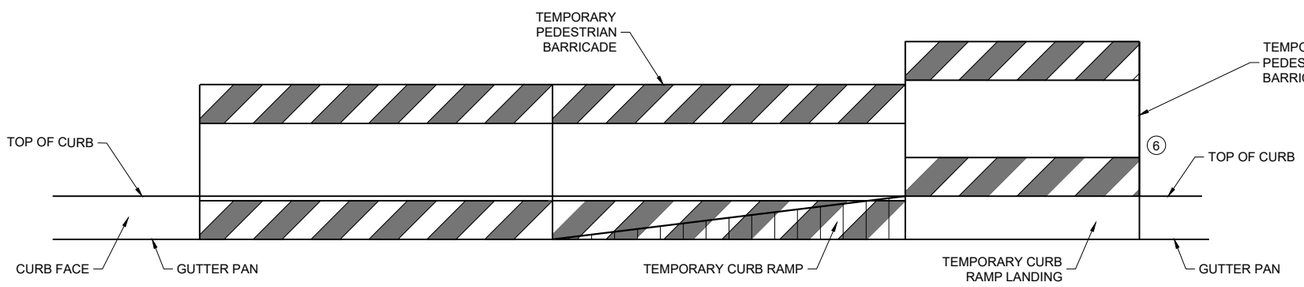
CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.

CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

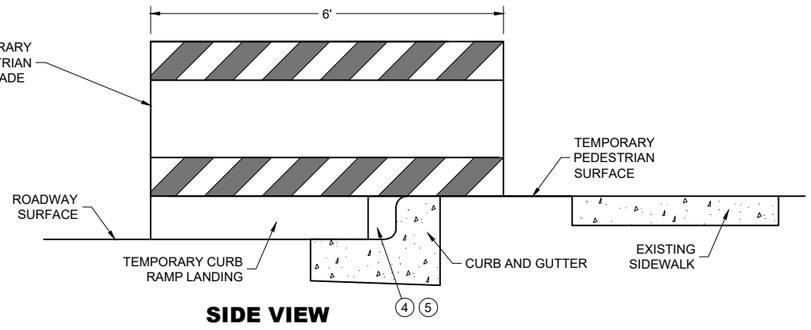
CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

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 TRANSPORTATION

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SDD 15D30-10b

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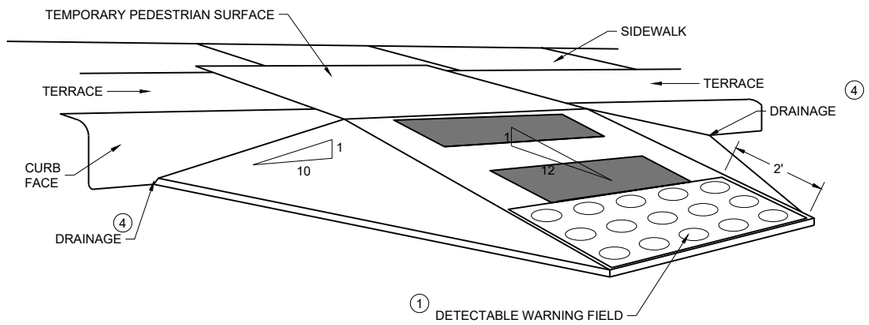
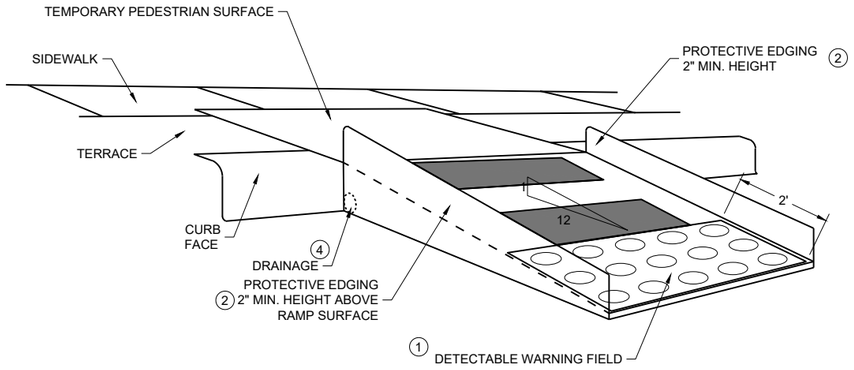
SDD 15D30-10b



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.

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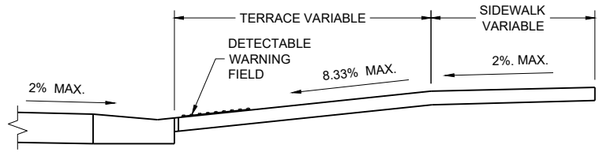
TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

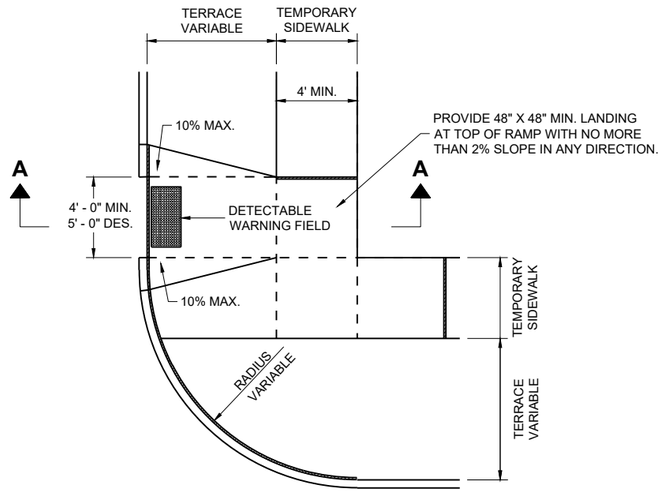
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 15D30-10c

GENERAL NOTES



SECTION A - A



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

6

SDD 15D30-10d

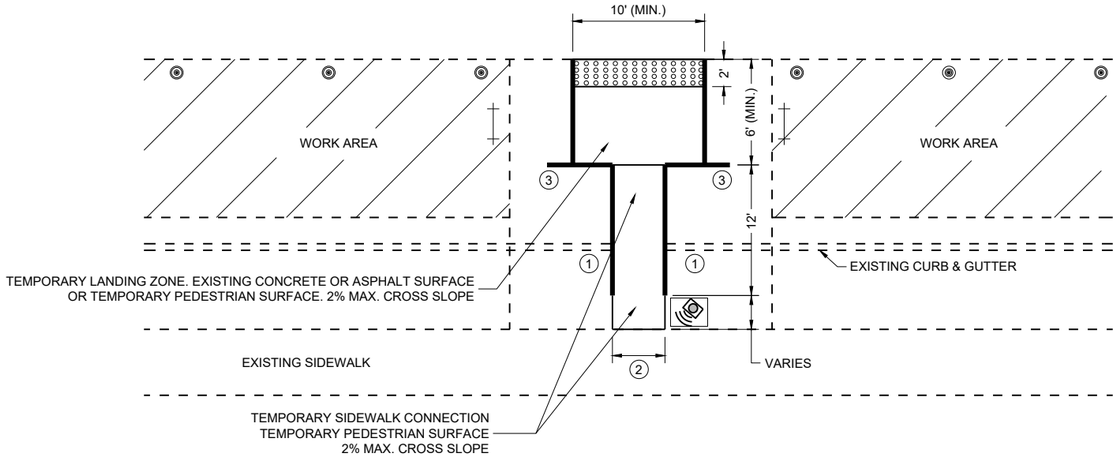
TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

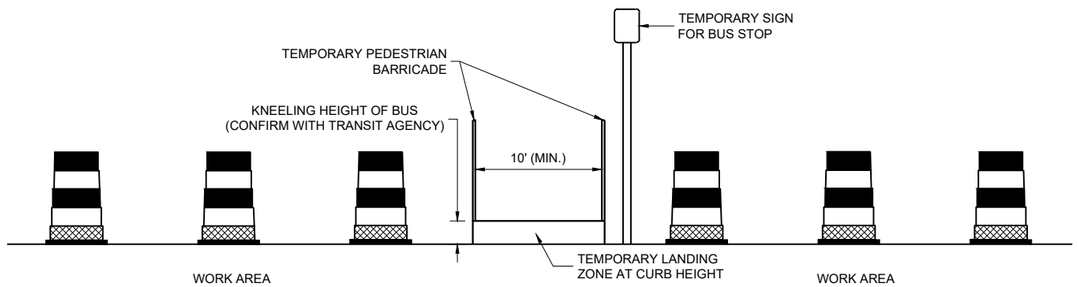
APPROVED
May 2023 — DATE
/S/ Andrew Heidtke — <position>
FHWA

6

SDD 15D30-10d



PLAN VIEW



PROFILE VIEW TEMPORARY BUS STOP PAD

GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.

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.

DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

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".

CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

(1) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

(2) 5' WIDE MIN. WITH TEMPORARY PEDESTRIAN BARRICADE, 10' WIDE MIN. WITHOUT TEMPORARY PEDESTRIAN BARRICADE.

(3) PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE INTO THIS SPACE.

LEGEND

- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY DETECTABLE WARNING FIELD
- WORK AREA
- TEMPORARY AUDIBLE MESSAGE DEVICE (EXACT PLACEMENT BASED UPON FIELD CONDITIONS)

6

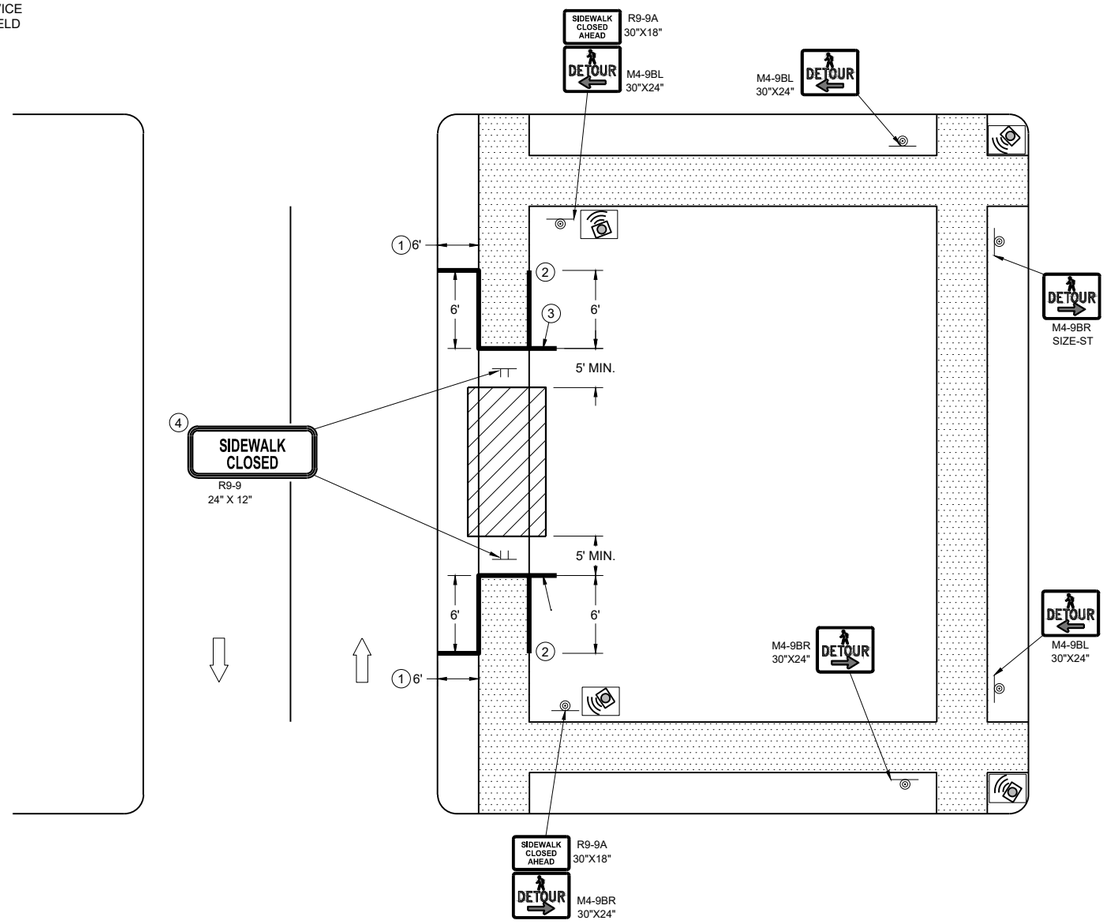
SDD 15D30-10e

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

LEGEND

- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC
- TEMPORARY AUDIBLE MESSAGE DEVICE (EXACT PLACEMENT BASED UPON FIELD CONDITIONS)



SIDEWALK DETOUR, SIDEWALK ONLY ON ONE SIDE

GENERAL NOTES

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15D30-10f

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.

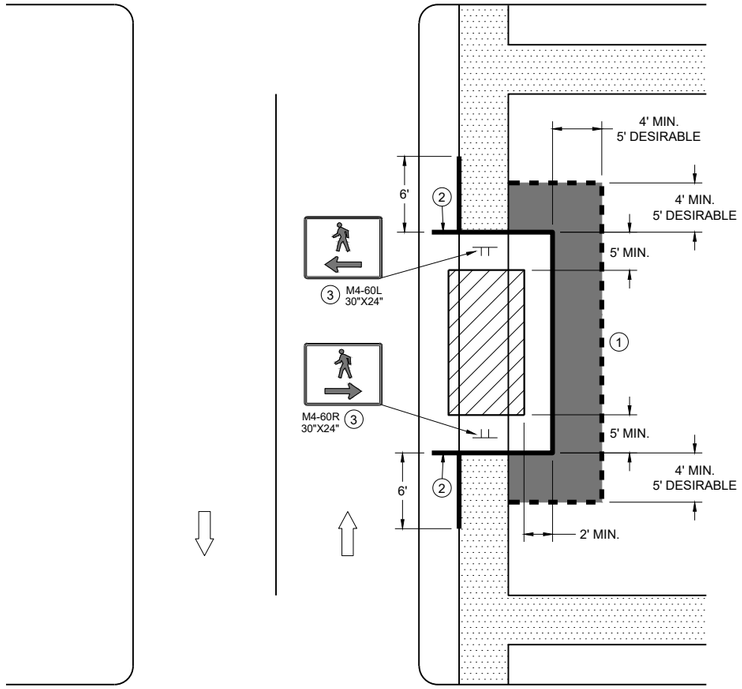
WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

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 BYPASS
SINGLE SIDE

TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
SDD 15D30-10g

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.

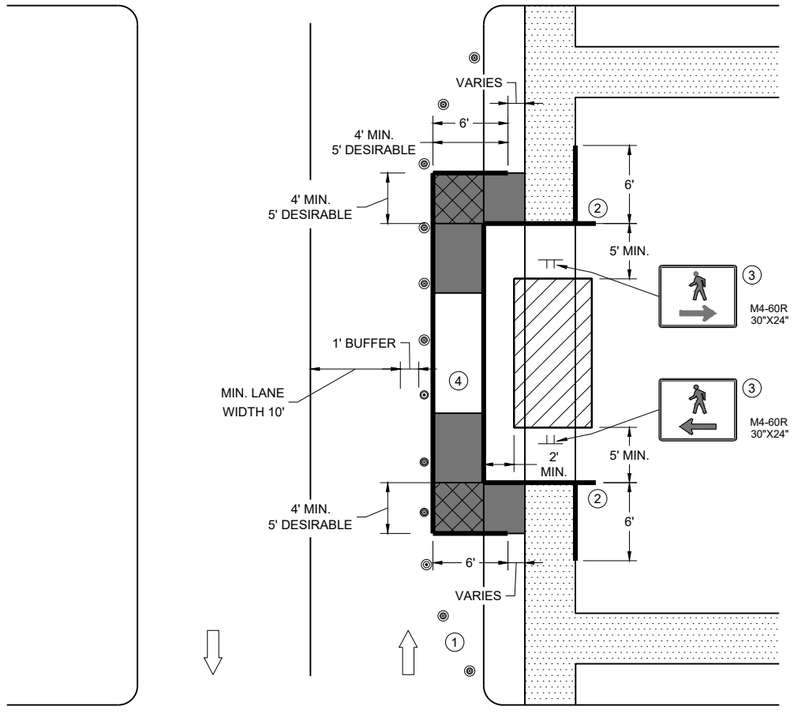
WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

(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 SURFACE HAS BEEN REMOVED, USE A TEMPORARY PEDESTRIAN SURFACE. WHEN THE TEMPORARY PEDESTRIAN ACCESS ROUTE RUNS PARALLEL ON THE ROADWAY SURFACE, THE MAXIMUM CROSS SLOPE WILL MATCH THE EXISTING ROADWAY CROSS SLOPE.



SIDEWALK BYPASS, SINGLE SIDE

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SDD 15D30-10h

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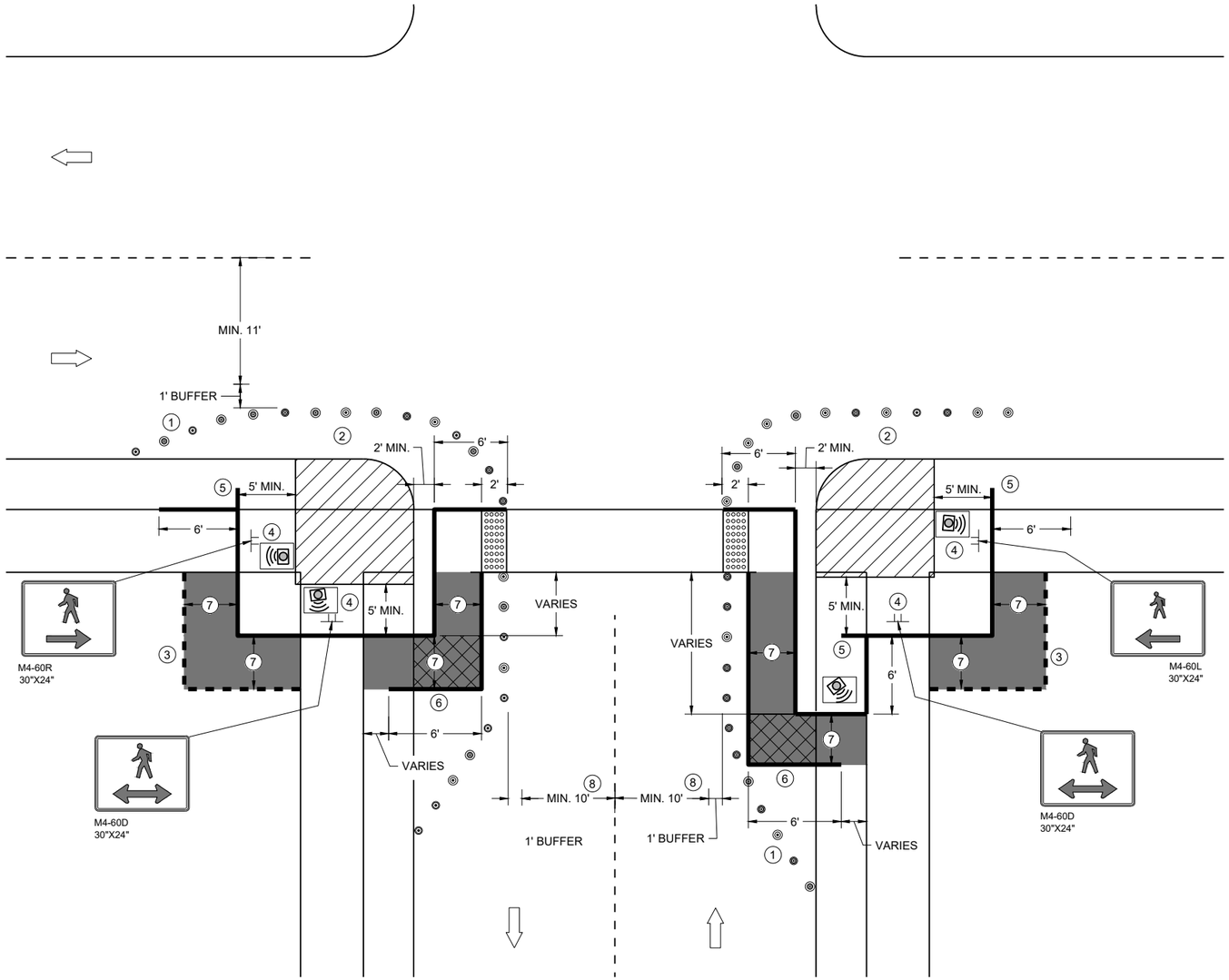
SDD 15D30-10h

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



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.

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.

WHEN THE TEMPORARY PEDESTRIAN ACCESS ROUTE RUNS PARALLEL ON THE ROADWAY SURFACE, THE MAXIMUM CROSS SLOPE WILL MATCH THE EXISTING ROADWAY CROSS SLOPE.

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
- TEMPORARY AUDIBLE MESSAGE DEVICE (EXACT PLACEMENT BASED UPON FIELD CONDITIONS)

TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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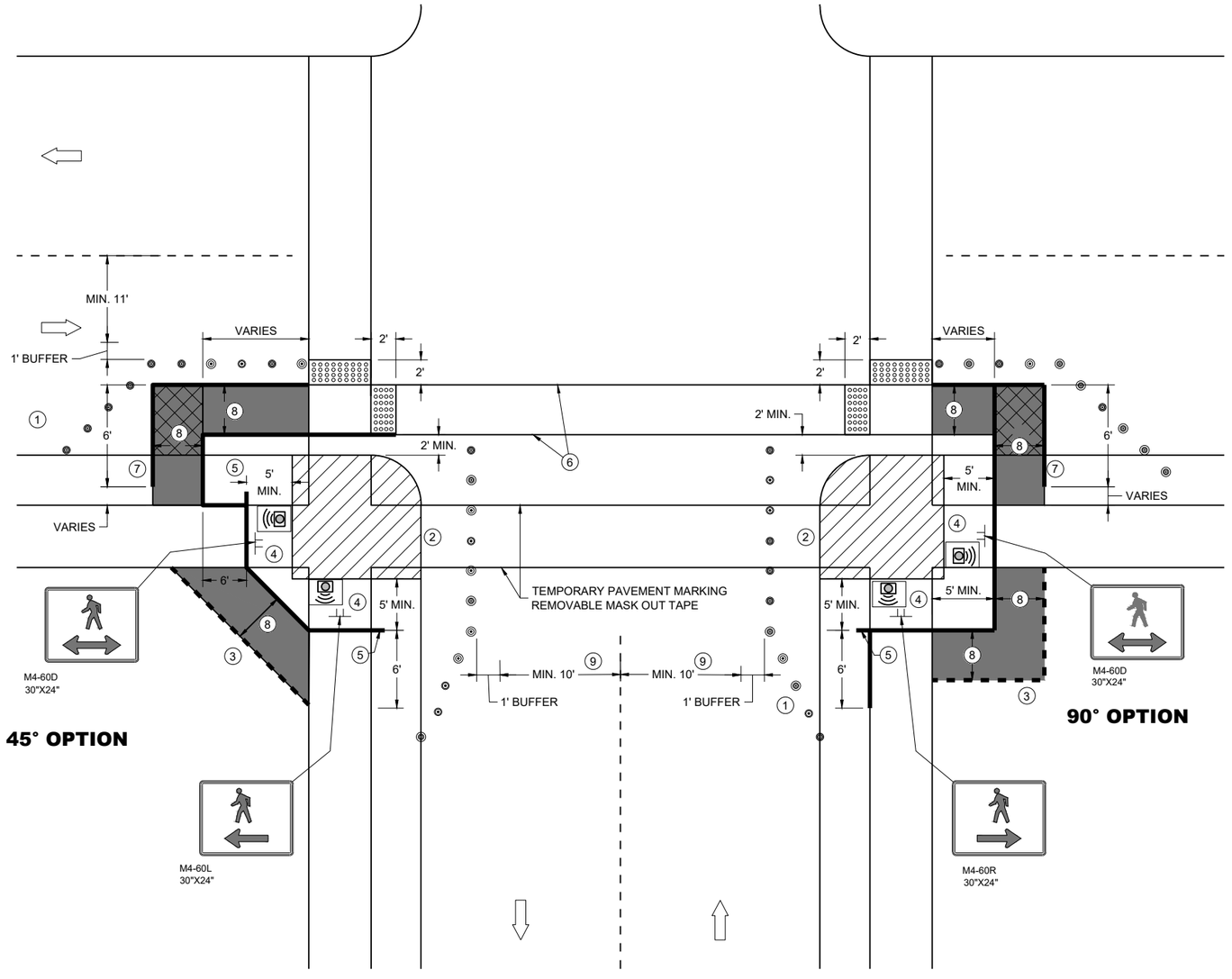
SDD 15D30-10i



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.

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.

WHEN THE TEMPORARY PEDESTRIAN ACCESS ROUTE RUNS PARALLEL ON THE ROADWAY SURFACE, THE MAXIMUM CROSS SLOPE WILL MATCH THE EXISTING ROADWAY CROSS SLOPE.

(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
- TEMPORARY AUDIBLE MESSAGE DEVICE (EXACT PLACEMENT BASED UPON FIELD CONDITIONS)

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
SDD 15D30-10j

LEGEND

SIGN ON PERMANENT SUPPORT

SIGN ON TEMPORARY SUPPORT

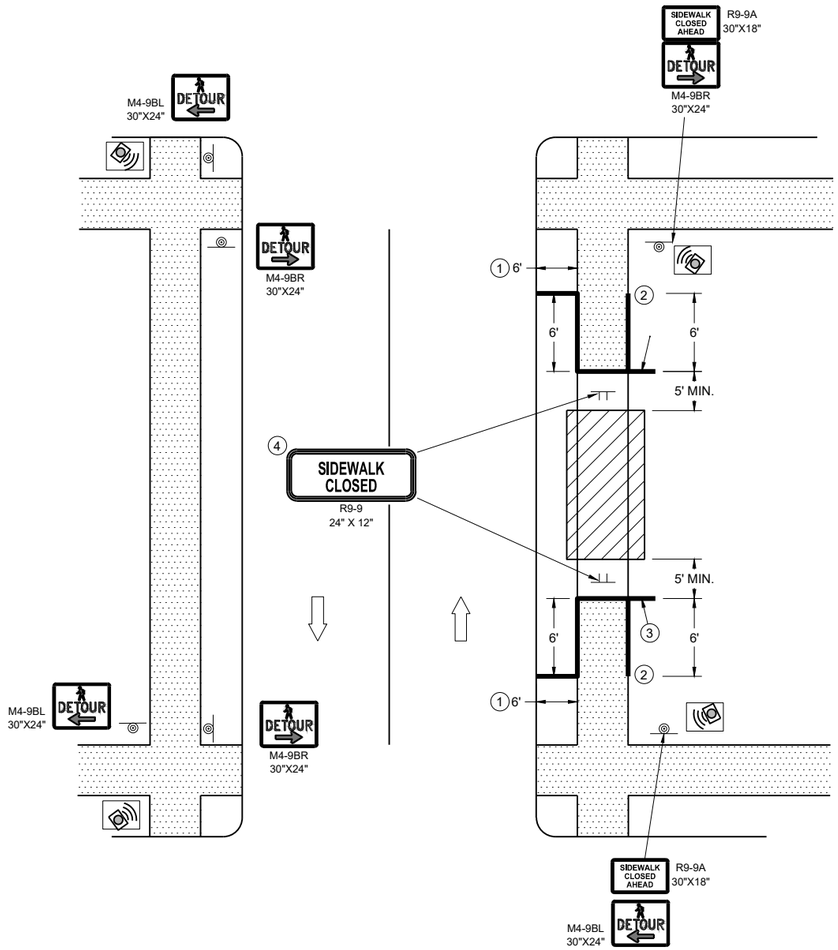
UNDER PEDESTRIAN TRAFFIC

WORK AREA

TEMPORARY PEDESTRIAN BARRICADE

DIRECTION OF TRAFFIC

TEMPORARY AUDIBLE MESSAGE DEVICE (EXACT PLACEMENT BASED UPON FIELD CONDITIONS)



SIDEWALK DETOUR, SIDEWALK ON BOTH SIDES

GENERAL NOTES

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.

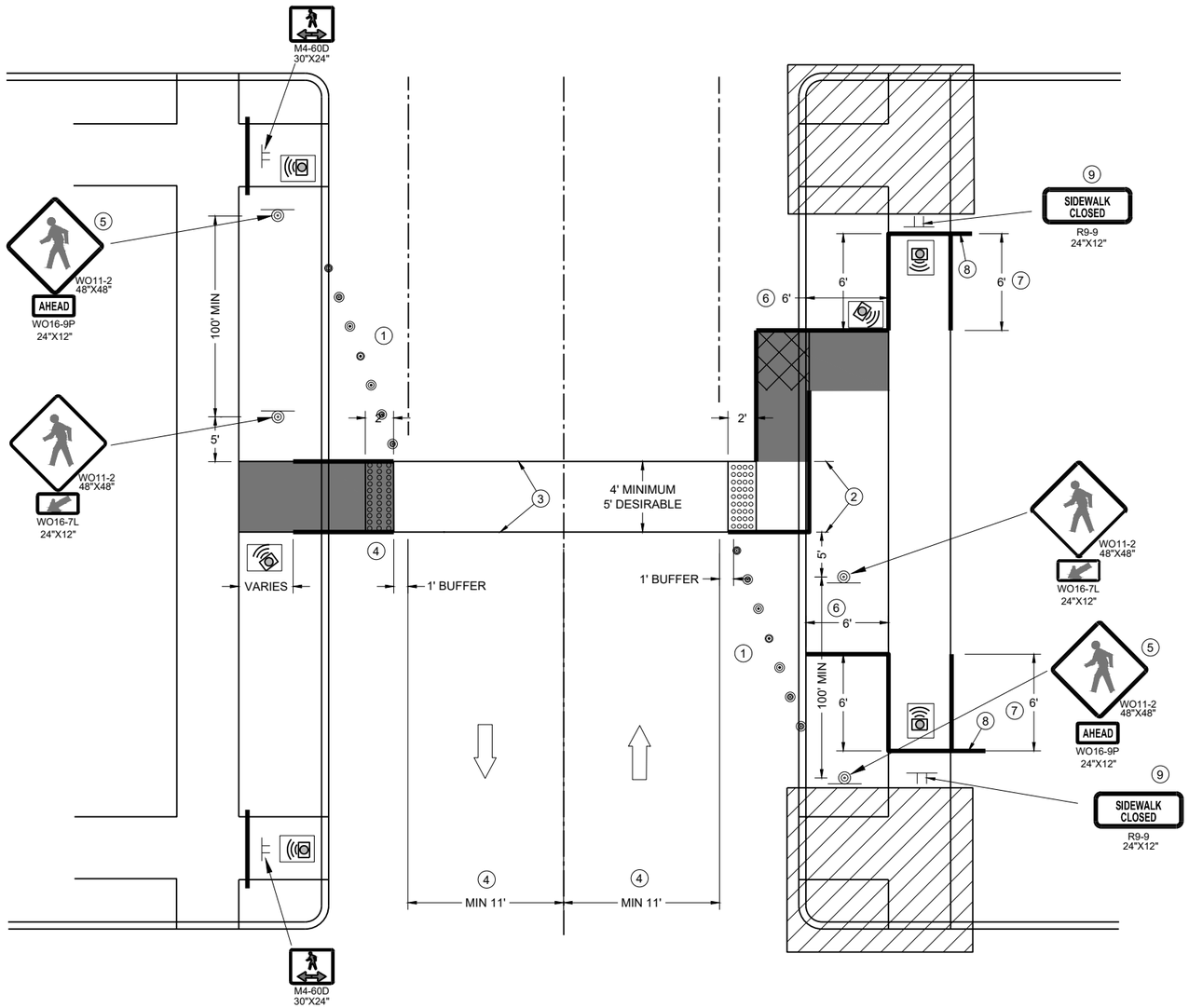
1. IF TERRACE IS LESS THAN 6 FEET WIDE, OMIT TEMPORARY PEDESTRIAN BARRICADE FROM THE SIDEWALK TO THE CURB.
2. PLACE BARRICADE CLOSURE SO THAT THE TEMPORARY PEDESTRIAN BARRICADE END IS AT THE LAST OPEN SIDEWALK ACCESS TO RESIDENCES OR BUSINESSES BEFORE THE SIDEWALK CLOSURE.
3. IF TEMPORARY PEDESTRIAN 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.

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15D30-10k



TEMPORARY PEDESTRIAN CROSSING

GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

SEE OTHER PEDESTRIAN ACCOMMODATION DETAILS FOR SIGNING AND DEVICES FOR DIFFERENT PEDESTRIAN FACILITIES CLOSURES.

WHEN THE TEMPORARY PEDESTRIAN ACCESS ROUTE RUNS PARALLEL ON THE ROADWAY SURFACE, THE MAXIMUM CROSS SLOPE WILL MATCH THE EXISTING ROADWAY CROSS SLOPE.

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
- TEMPORARY AUDIBLE MESSAGE DEVICE (EXACT PLACEMENT BASED UPON FIELD CONDITIONS)

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHIFTING TAPER L/2 W, LATERAL OFFSET (FT)					
		3	4	5	6	7	8
25	200	10	14	17	21	24	28
30	200	15	20	25	30	35	40
35	350	20	27	34	40	47	54
40	350	26	35	44	53	62	70
45	500	45	59	74	89	104	119
50	500	50	66	83	99	116	132
55	500	54	73	91	109	127	145

GENERAL NOTES

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"x36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

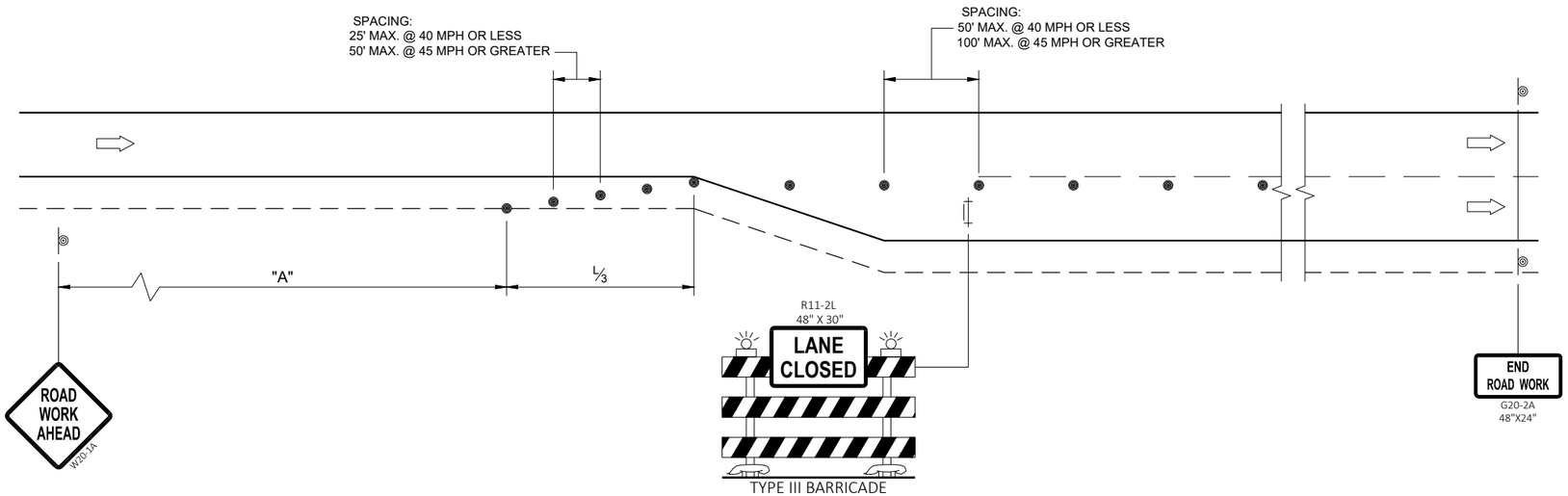
"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

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

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

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

W20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION WORK IS LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS.



PLACE BARRICADE AND SIGN APPROXIMATELY EVERY 1000' ACROSS THE CLOSED LANE

TRAFFIC CONTROL
ADDED LANE CLOSURE
WITHOUT LANE SHIFT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6
SDD 15D50-03a

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHIFTING TAPER (L/2) FEET
25	200	60
30	200	90
35	350	120
40	350	160
45	500	270
50	500	300
55	500	330

GENERAL NOTES

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"x36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

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

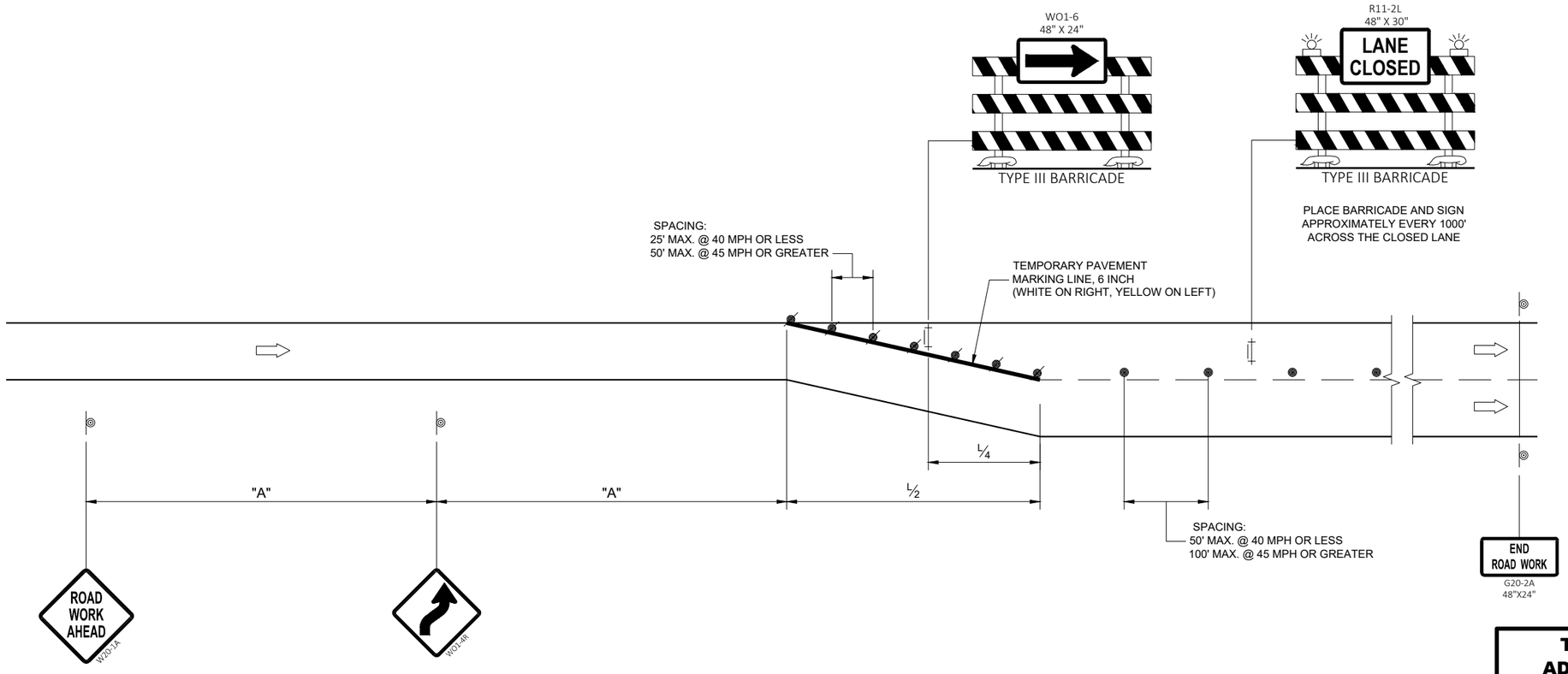
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

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

W20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION WORK IS LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS.

PLACE TEMPORARY PAVEMENT MARKING AND PLACE TEMPORARY PAVEMENT LINE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.



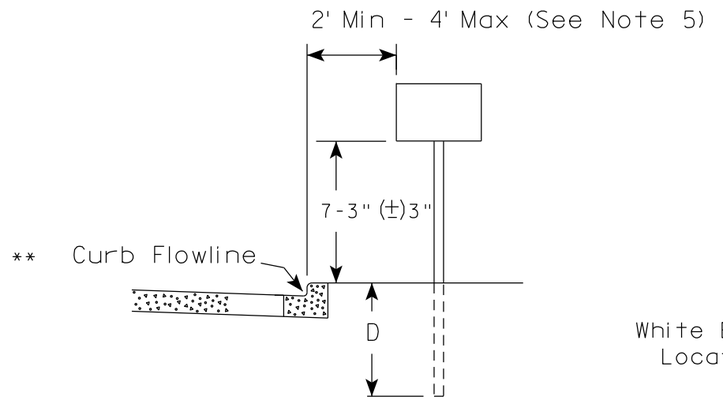
TRAFFIC CONTROL, ADDED LANE CLOSURE WITH LANE SHIFT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

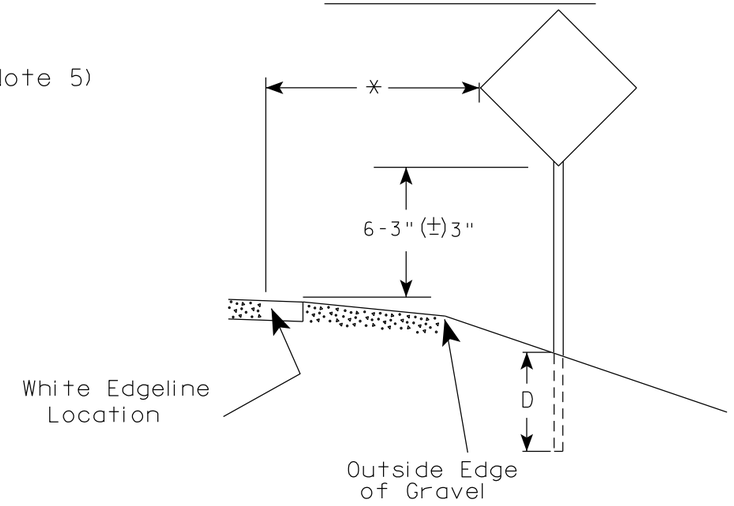
APPROVED
May 2023
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA

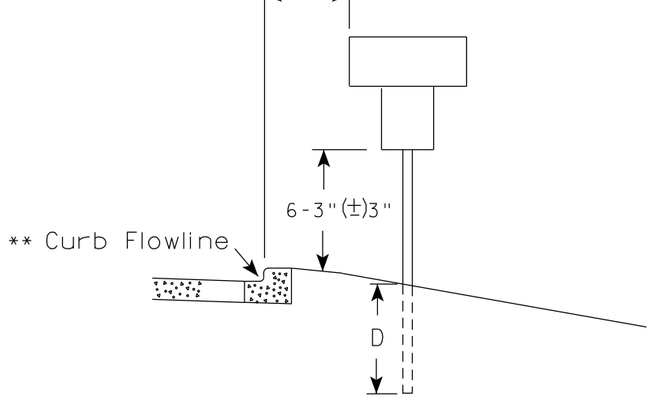
6
SDD 15D50-03b

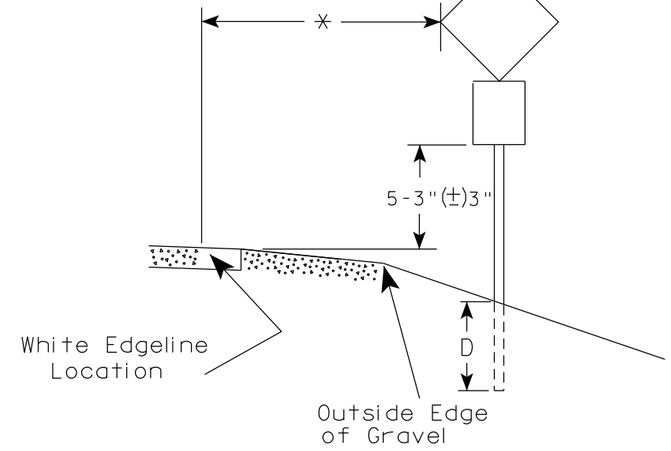
URBAN AREA



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" (±) 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".
3. For expressways and freeways, mounting height is 7'- 3" (±) 3" or 6'-3" (±) 3" depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±) 3".
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. Folding signs shall be mounted at a height of 5'-3" (±) 3" or as directd by the Engineer.

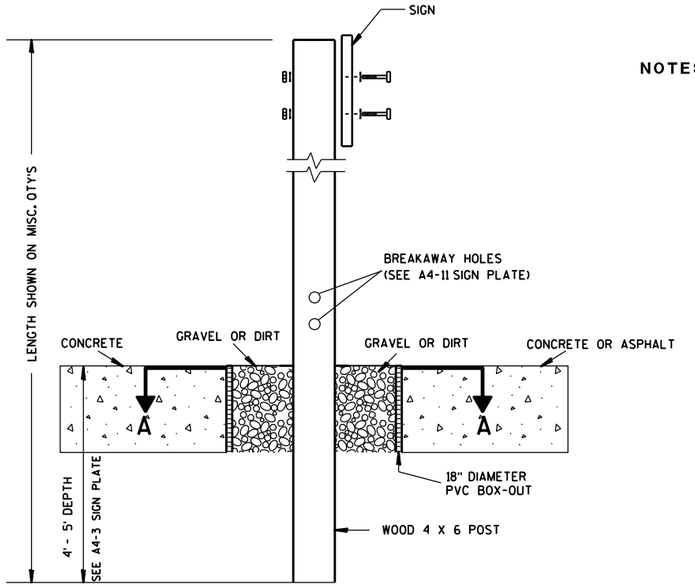
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-3.23

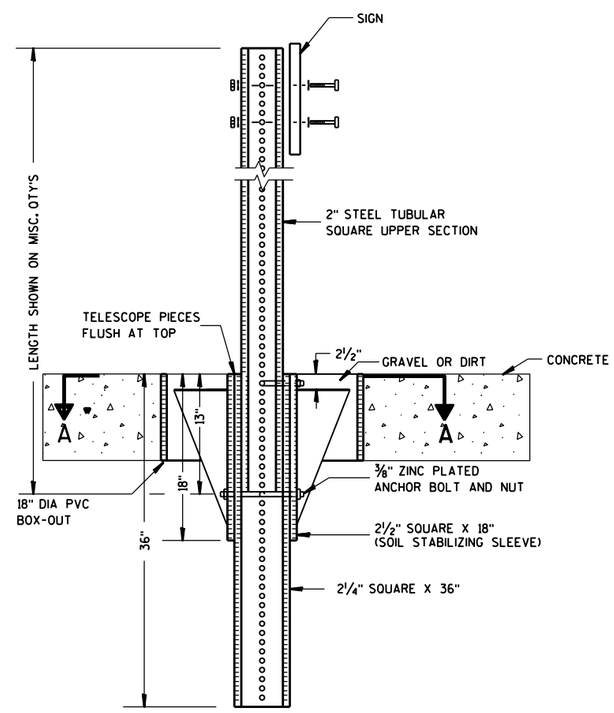
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 343	E



ELEVATION VIEW

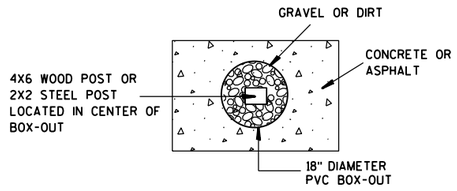
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

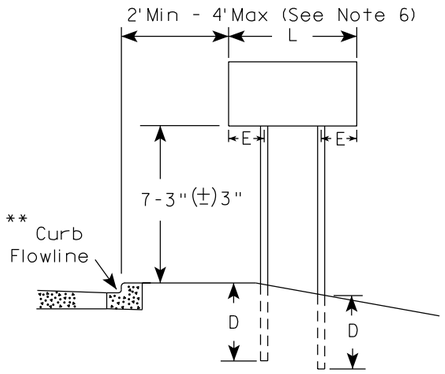
APPROVED Matthew R Rauch
for State Traffic Engineer

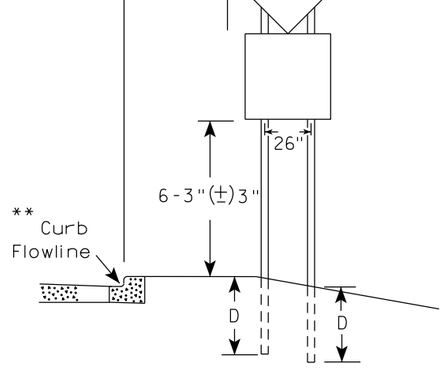
DATE 1/27/14 PLATE NO. A4-3B.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

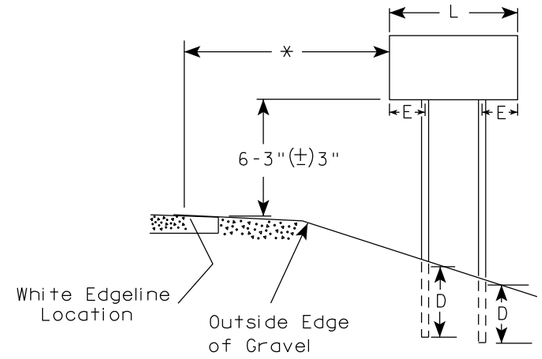
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

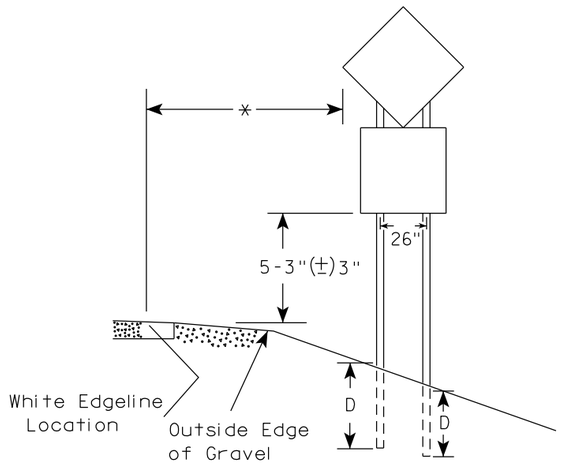
URBAN AREA

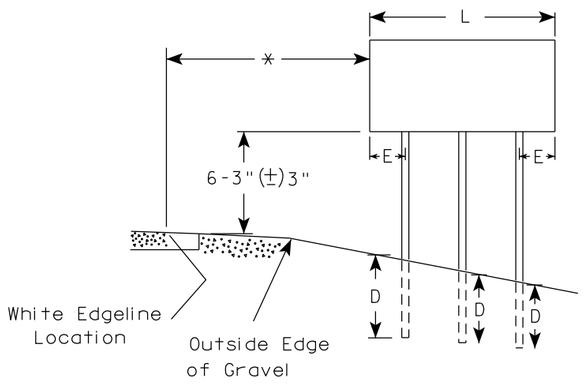




RURAL AREA (See Note 3)







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" (±) 3" or 6'-3" (±) 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" (±) 3" or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±) 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" (±) 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'

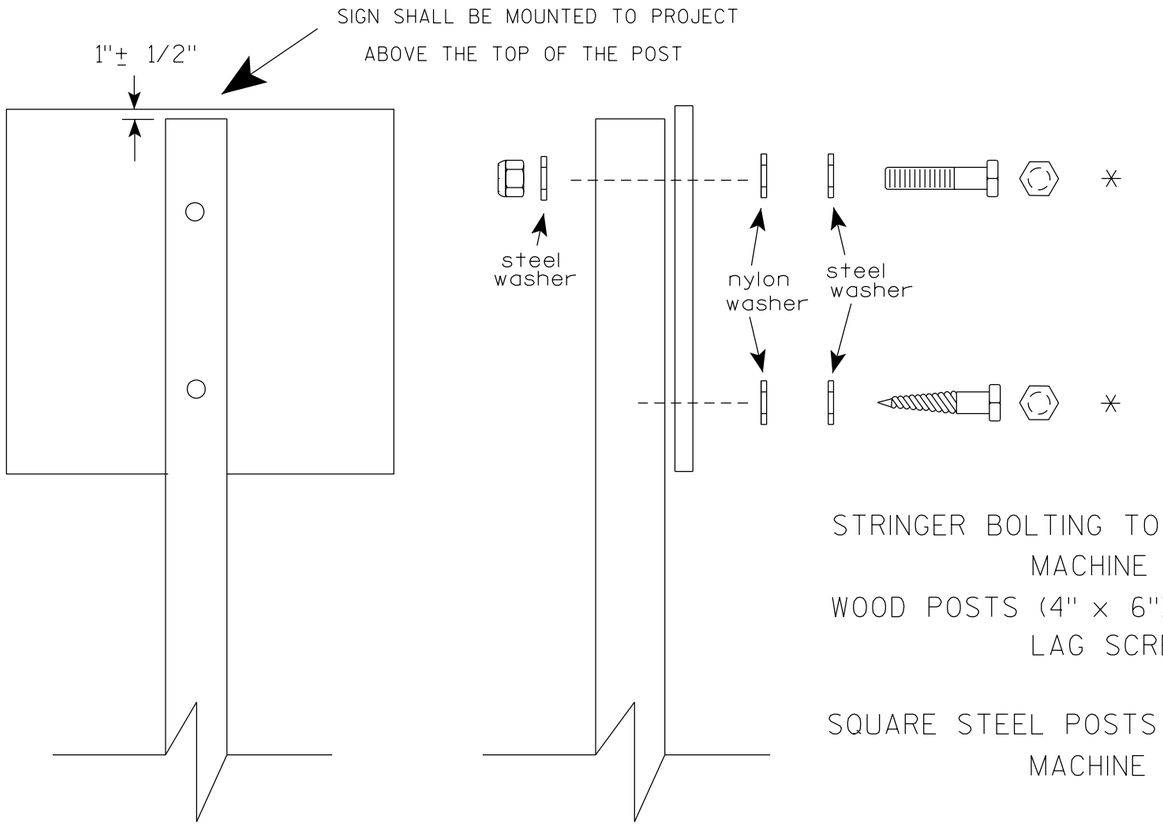
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-4.16

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 345	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

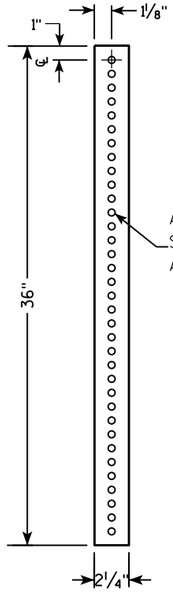
DATE 4/1/2020 PLATE NO. A4-8.9

PROJECT NO:

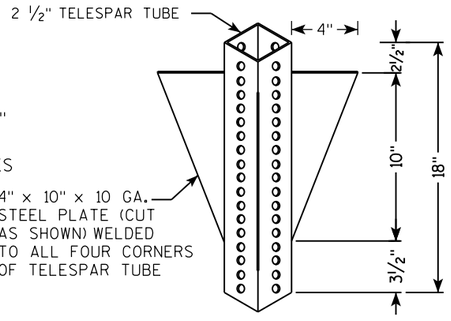
SHEET NO: 346 E

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

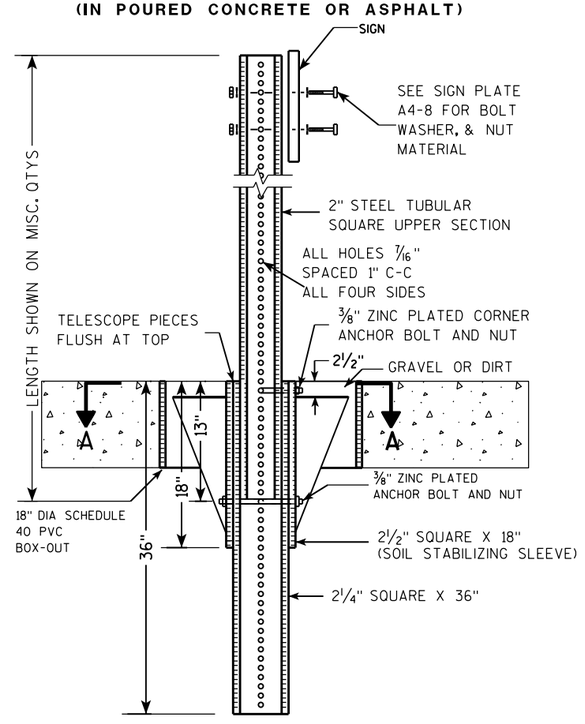
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



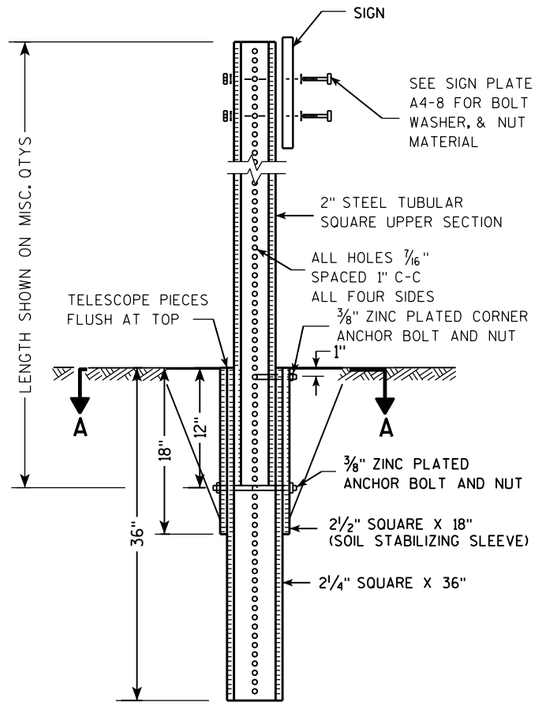
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

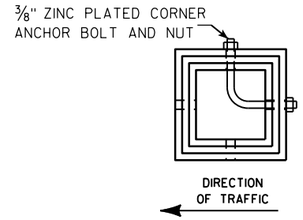


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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).

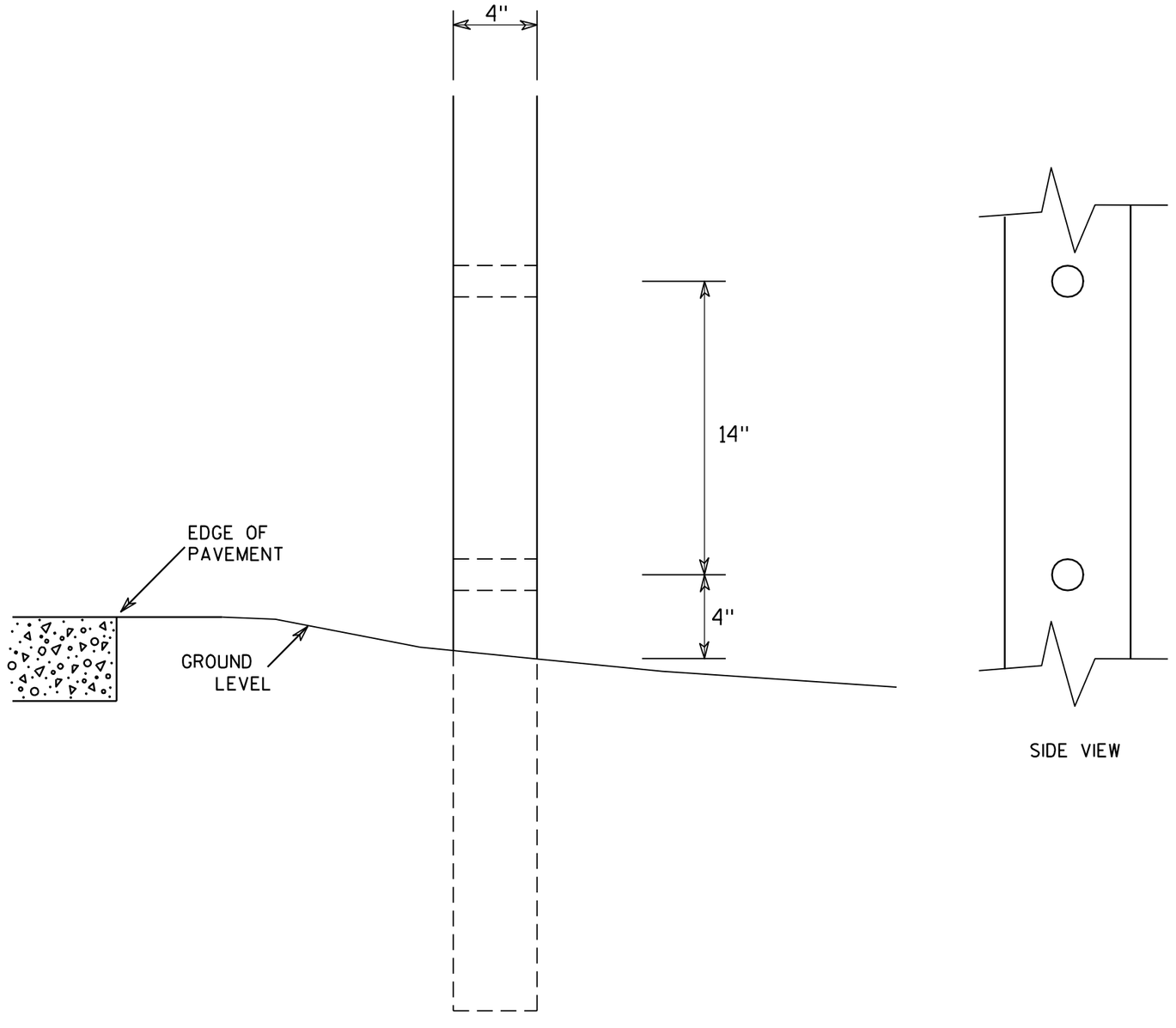
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 347 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

7

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

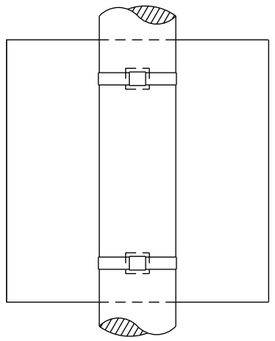
APPROVED Chester J Spang
for State Traffic Engineer

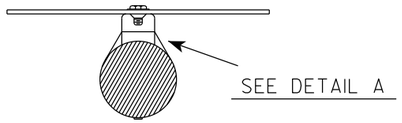
DATE 3/27/97 PLATE NO. A4-11.2

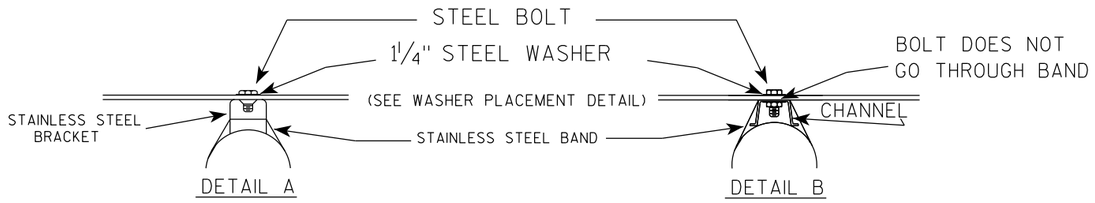
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 348	E

BANDING

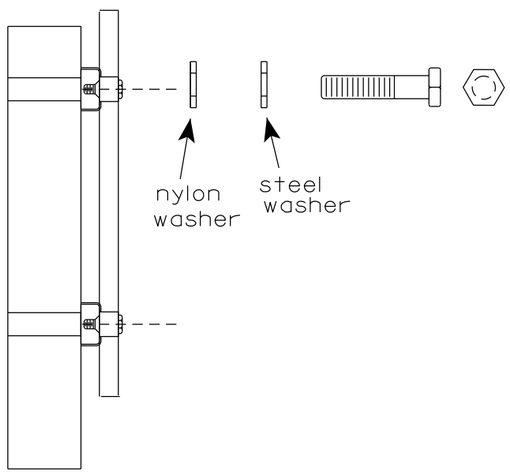
SINGLE SIGN







WASHER PLACEMENT

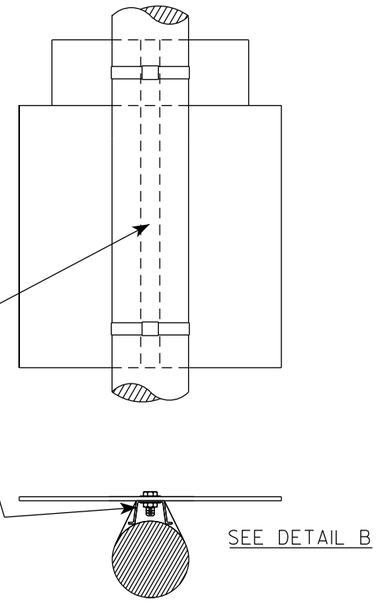


WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

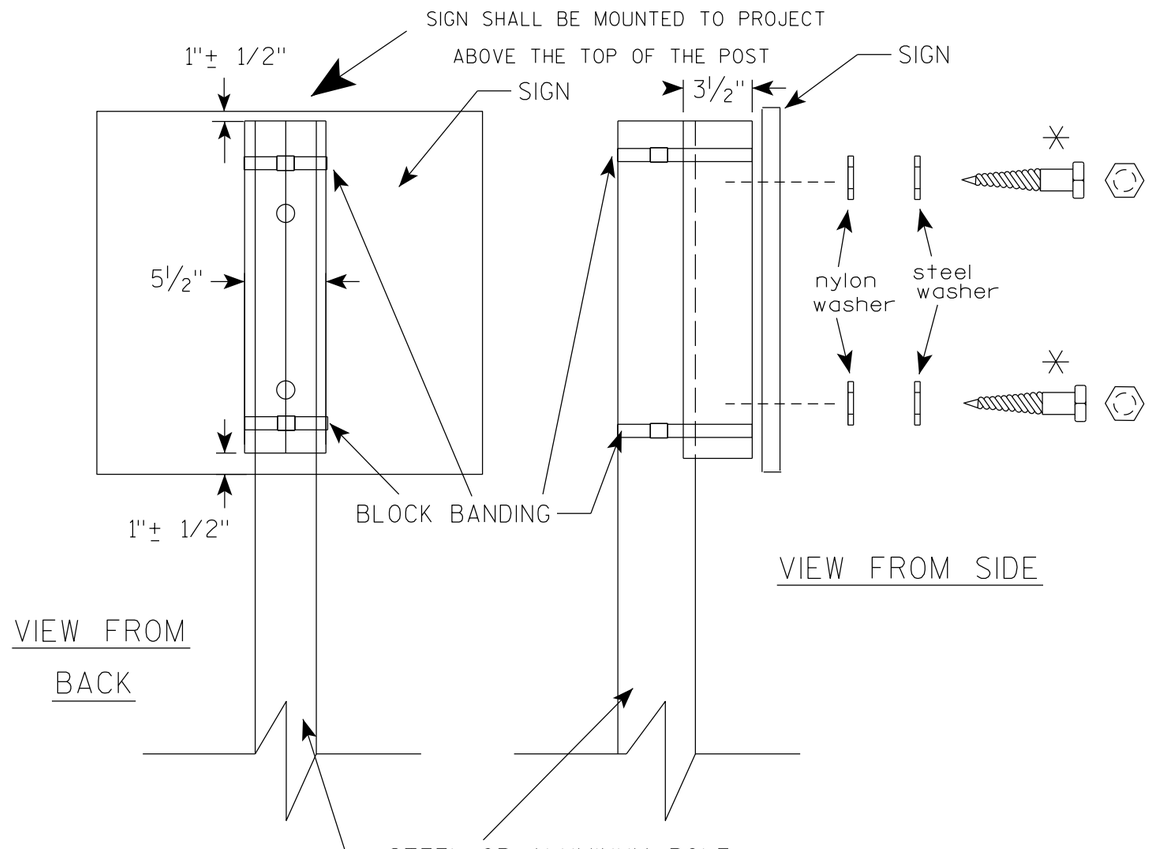
DATE 6/10/19 PLATE NO. A5-9.4

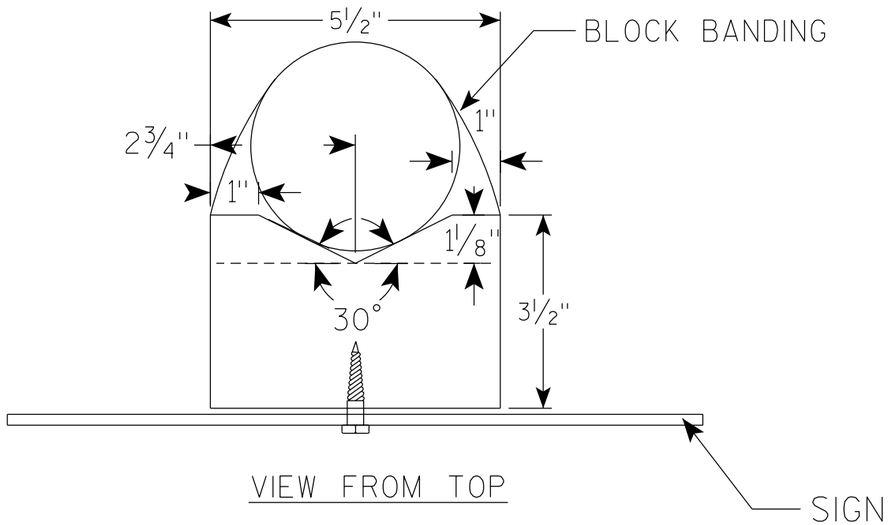
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 349	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7

7





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

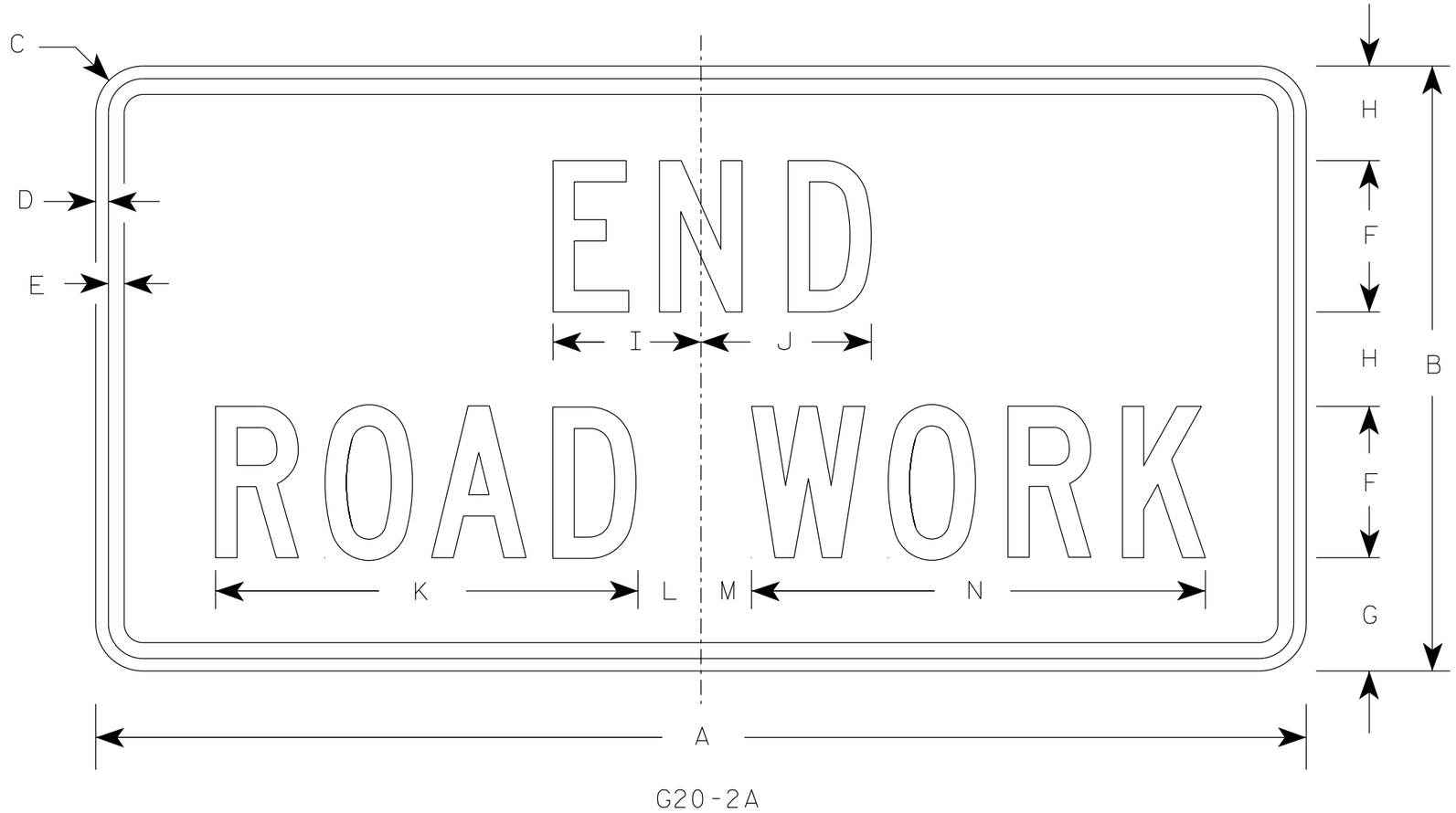
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/19/2022 PLATE NO. A5-10.3

PROJECT NO:

SHEET NO: 350 E



G20-2A

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/2	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5
2	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
2M	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
3	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
4	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
5	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0

STANDARD SIGN

G20-2A

WISCONSIN DEPT OF TRANSPORTATION

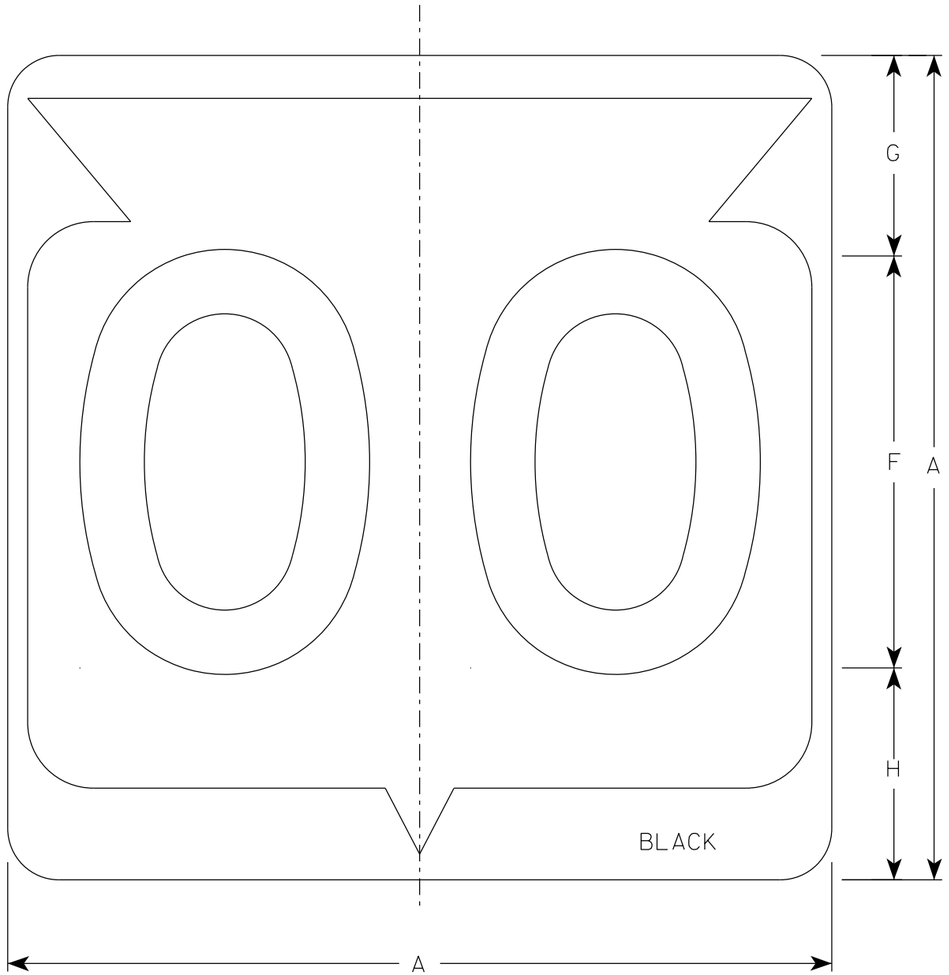
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/26/2023 PLATE NO. G20-2A.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 351 E

7

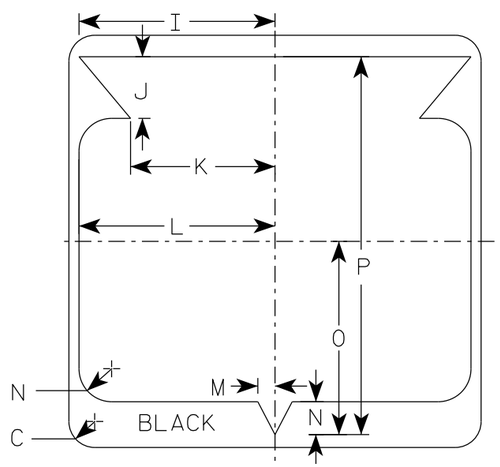
7



M1-6

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D except 3 number signs Series C



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
2M	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0

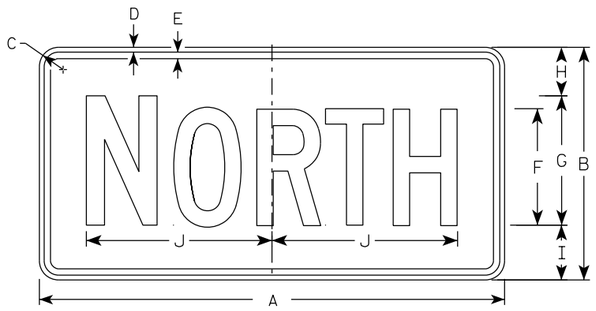
STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

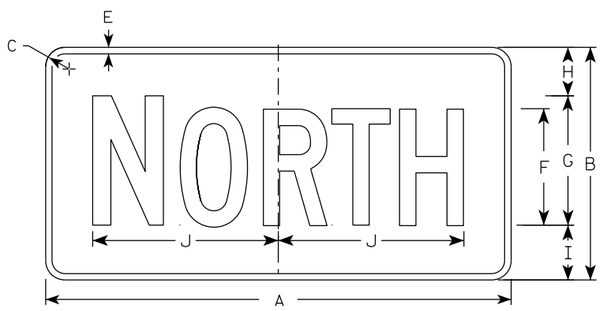
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/8/2022 PLATE NO. M1-6.11

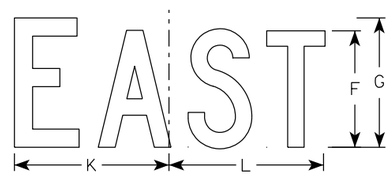
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 352	E



M3-1
MM3-1
MP3-1

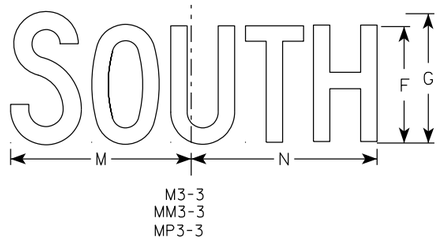


MB3-1
MK3-1
MN3-1

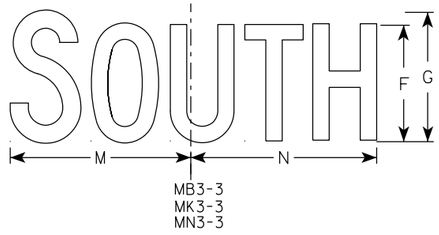


M3-2
MM3-2
MP3-2

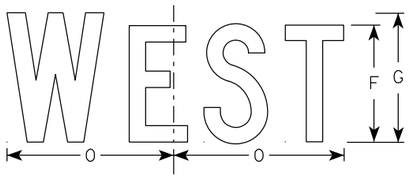
MB3-2
MK3-2
MN3-2



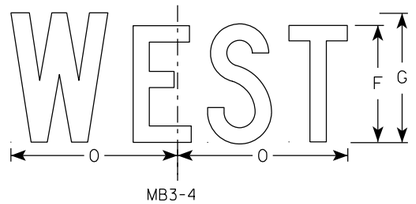
M3-3
MM3-3
MP3-3



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 Reflective
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																											
2S	24	12	1 1/2	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												2.00
2M	24	12	1 1/2	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												2.00
3	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5
4	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5
5	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5

STANDARD SIGNS
M3-1 THRU M3-4
SERIES

WISCONSIN DEPT OF TRANSPORTATION

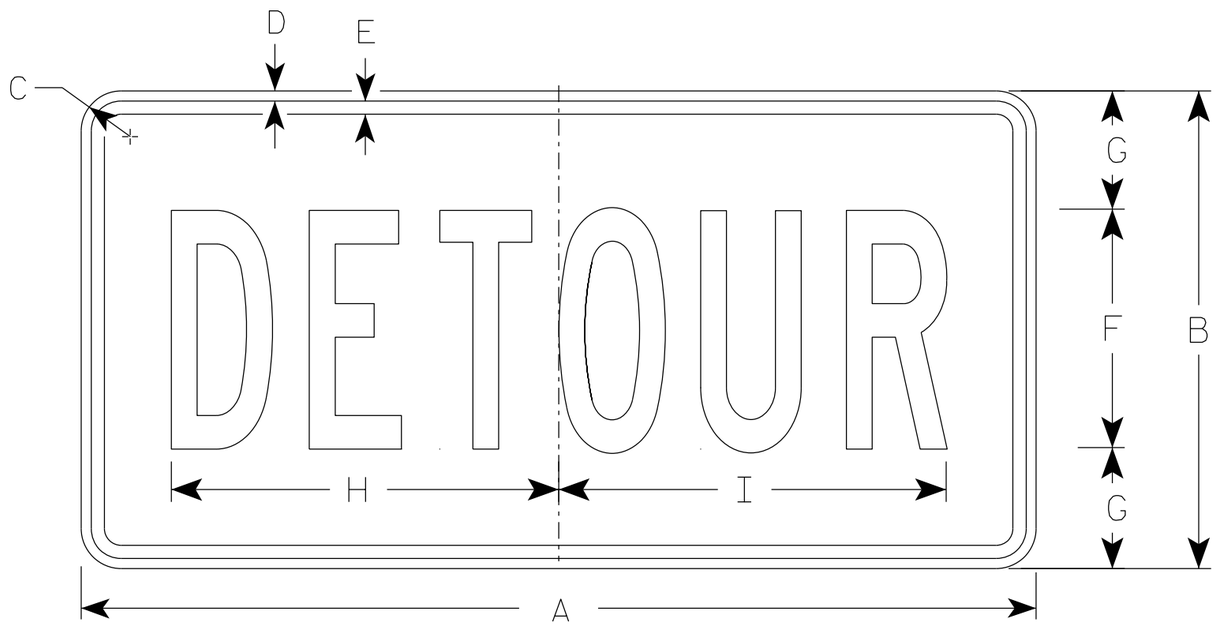
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 2/8/2023 PLATE NO. M3-1.15

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 353 | E

NOTES

1. Sign is Type II - Type F Reflective
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.



M4-8

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
2M	24	12	1 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
5	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5

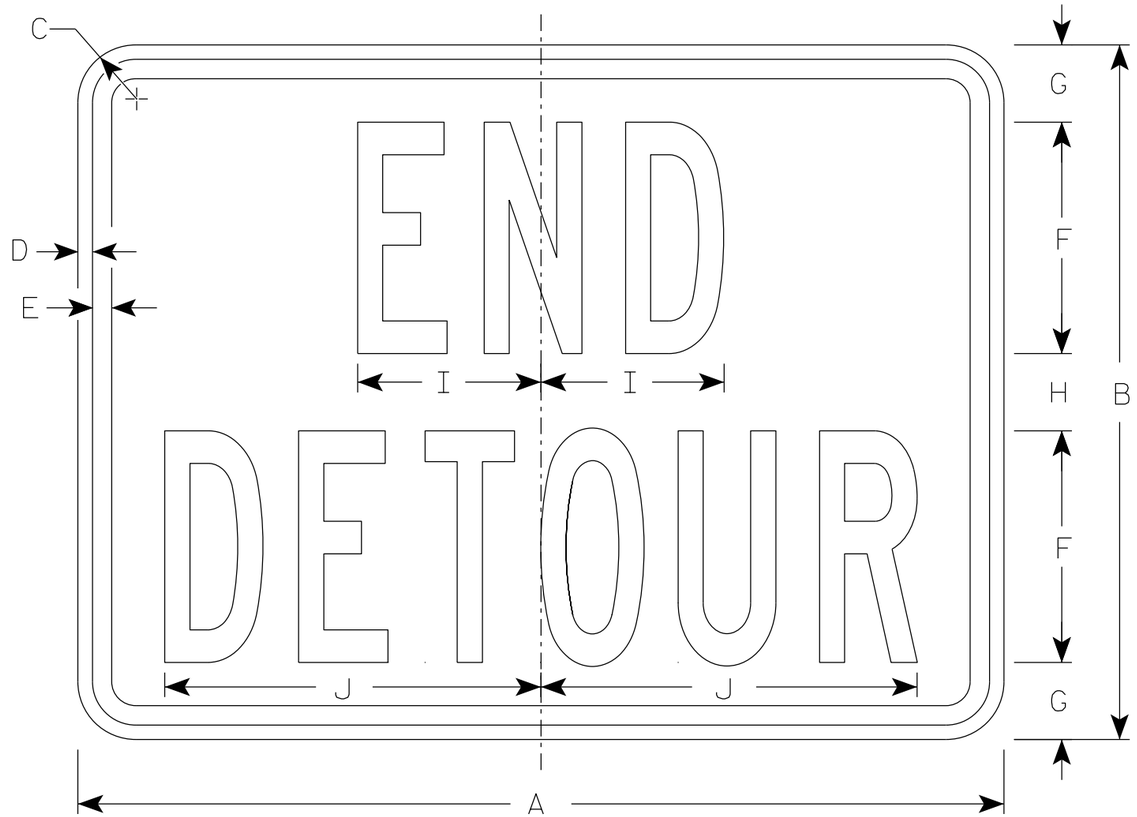
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-8.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 354	E



M4-8A

NOTES

1. Sign is Type II - Type F Reflective
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 ½	⅜	½	6	2	2	4 ¾	9 ¾																	3.0
2M	24	18	1 ½	⅜	½	6	2	2	4 ¾	9 ¾																	3.0
3	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0
4	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0
5	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0

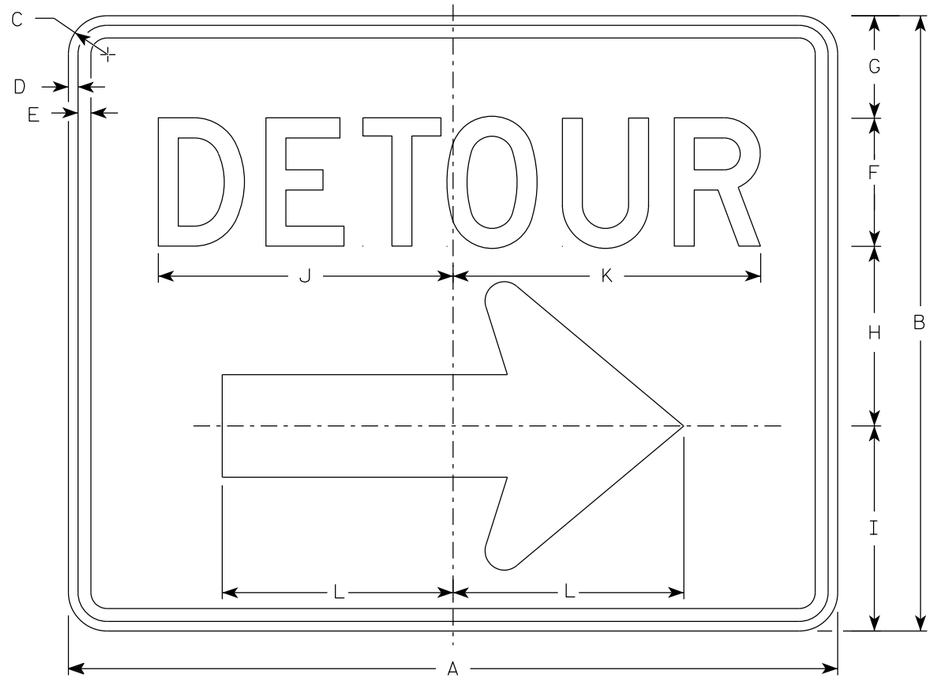
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-8A.4

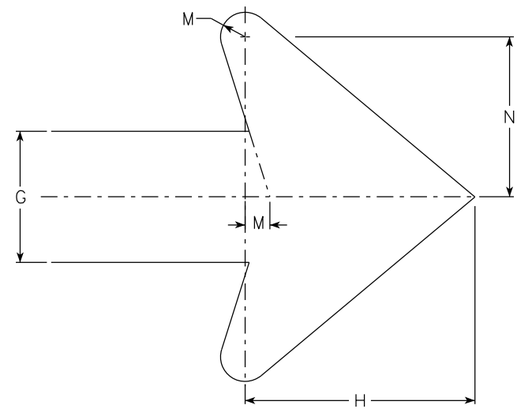
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 355 | E



M4-9R

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M4-9L is the same as M4-9R except the arrow is reversed.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
2M	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
3	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
4	48	36	1 7/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0
5	48	36	1 7/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0

STANDARD SIGN
M4-9 R & L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

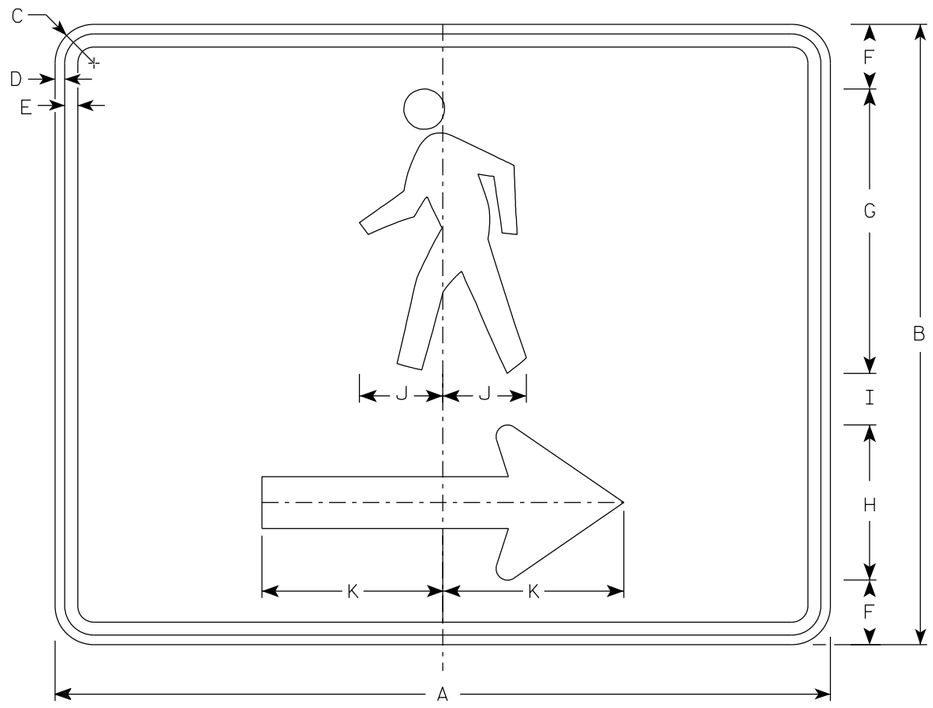
DATE 2/9/2023 PLATE NO. M4-9R.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

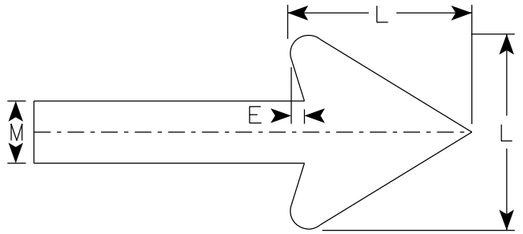
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M49R.dgn PLOT DATE : 21-MARCH 2023 1:40 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

NOTES

1. Sign is Type II- Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M4-60L is the same as M4-60R except the arrow is reversed.



M4-60R



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 ½	⅜	½	2 ½	11	6	2	3 ¼	7	6	2														5.00
2M	30	24	1 ½	⅜	½	2 ½	11	6	2	3 ¼	7	6	2														5.00
3																											
4																											
5																											

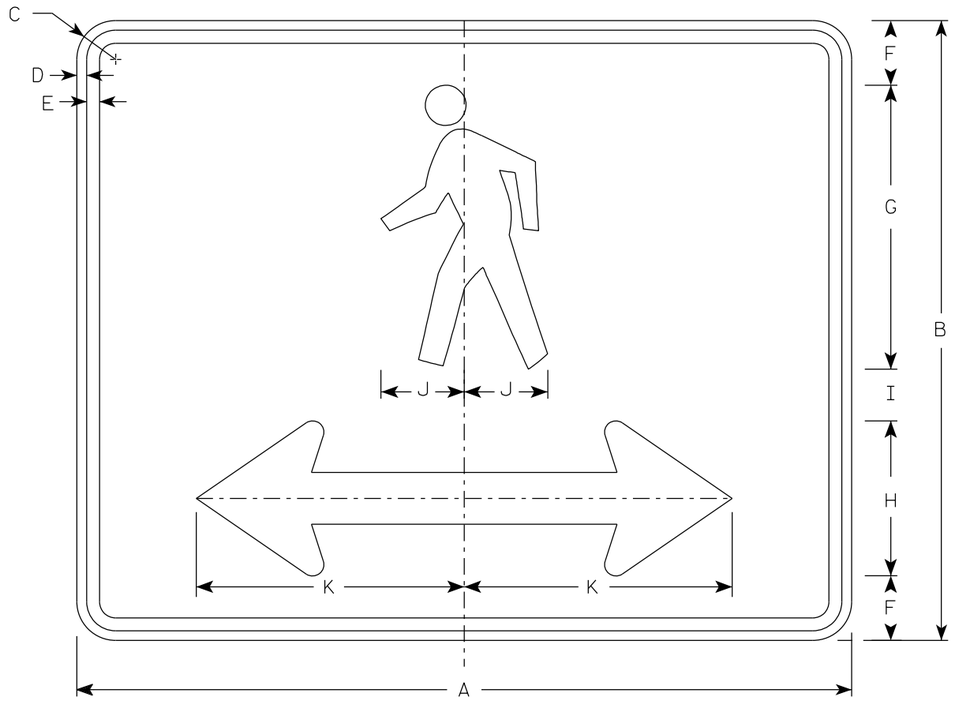
STANDARD SIGN
M4-60 L&R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 2/14/2023 PLATE NO. M4-60.2

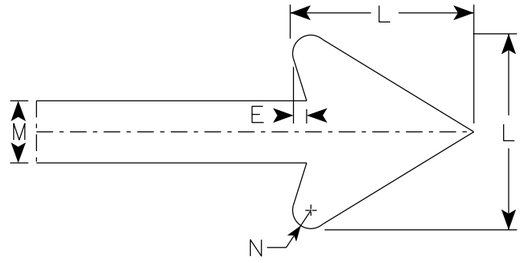
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 357 | E



M4-60D

NOTES

1. Sign is Type II- Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



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 1/2	3/8	1/2	2 1/2	11	6	2	3 1/4	10 3/8	6	2	3/8													5.00
2M	30	24	1 1/2	3/8	1/2	2 1/2	11	6	2	3 1/4	10 3/8	6	2	3/8													5.00
3																											
4																											
5																											

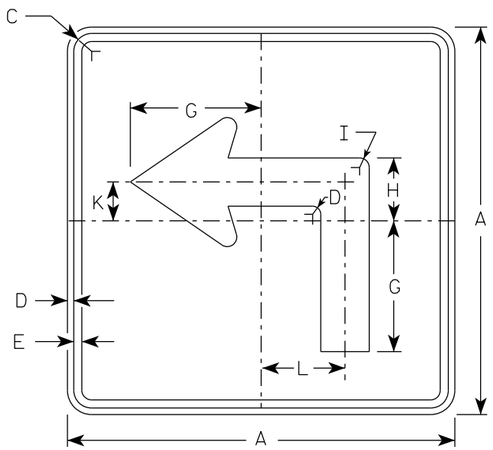
STANDARD SIGN
M4-60D

WISCONSIN DEPT OF TRANSPORTATION

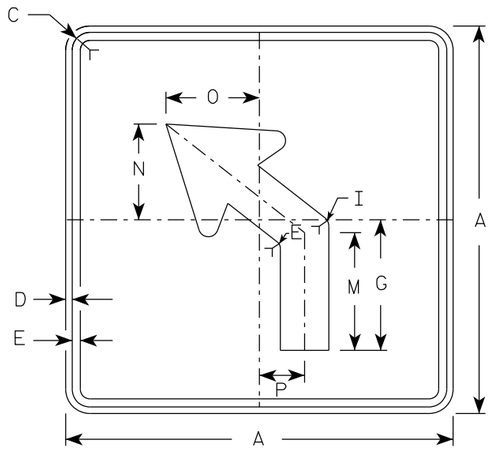
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/14/2023 PLATE NO. M4-60D.2

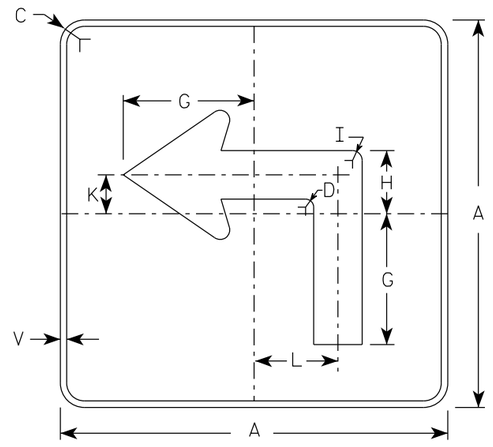
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 358 | E



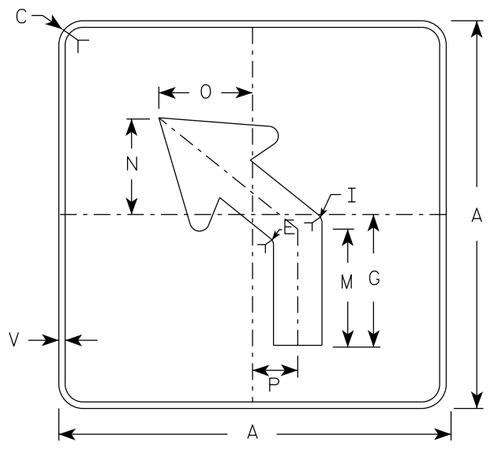
M5-1L
MM5-1L
MO5-1L
MP5-1L



M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L

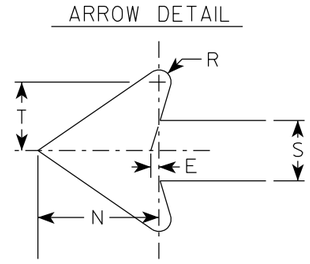


MB5-2L
MK5-2L
MN5-2L
MR5-2L

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
   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.

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	21		1 1/2	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		1/2					3.06
2M	21		1 1/2	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		1/2					3.06
3	30		1 7/8	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		1/2					6.25
4	30		1 7/8	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		1/2					6.25
5	30		1 7/8	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		1/2					6.25

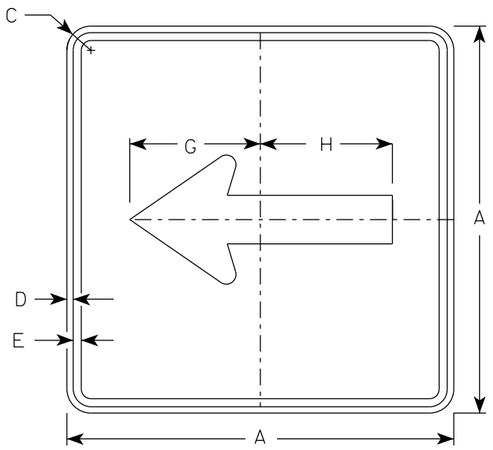
STANDARD SIGN
M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

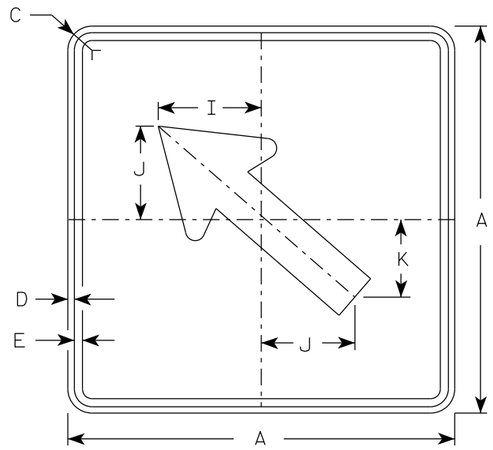
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/13/2023 PLATE NO. M5-1.15

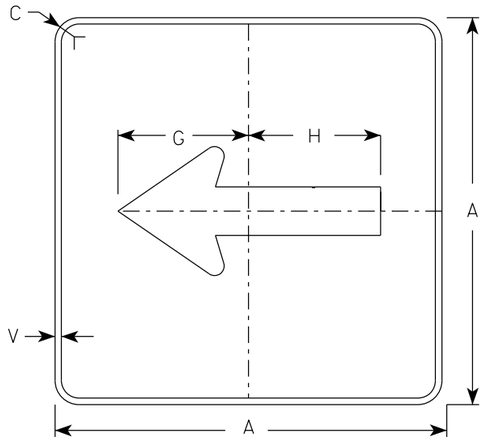
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 359 | E



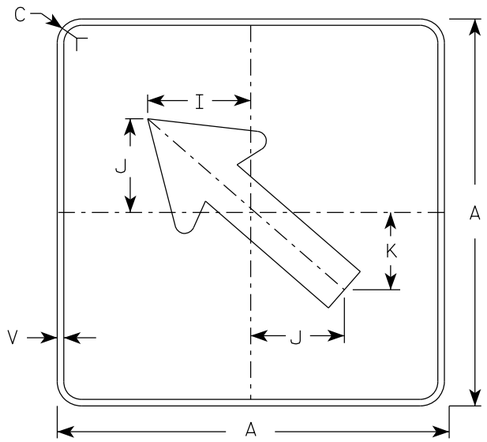
M6-1
MM6-1
MO6-1
MP6-1



M6-2
MM6-2
MO6-2
MP6-2



MB6-1
MK6-1
MN6-1
MR6-1

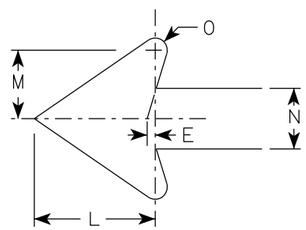


MB6-2
MK6-2
MN6-2
MR6-2

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. 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

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	21		1 1/2	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							1/2					3.06
2M	21		1 1/2	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							1/2					3.06
3	30		1 7/8	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							1/2					6.25
4	30		1 7/8	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							1/2					6.25
5	30		1 7/8	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							1/2					6.25

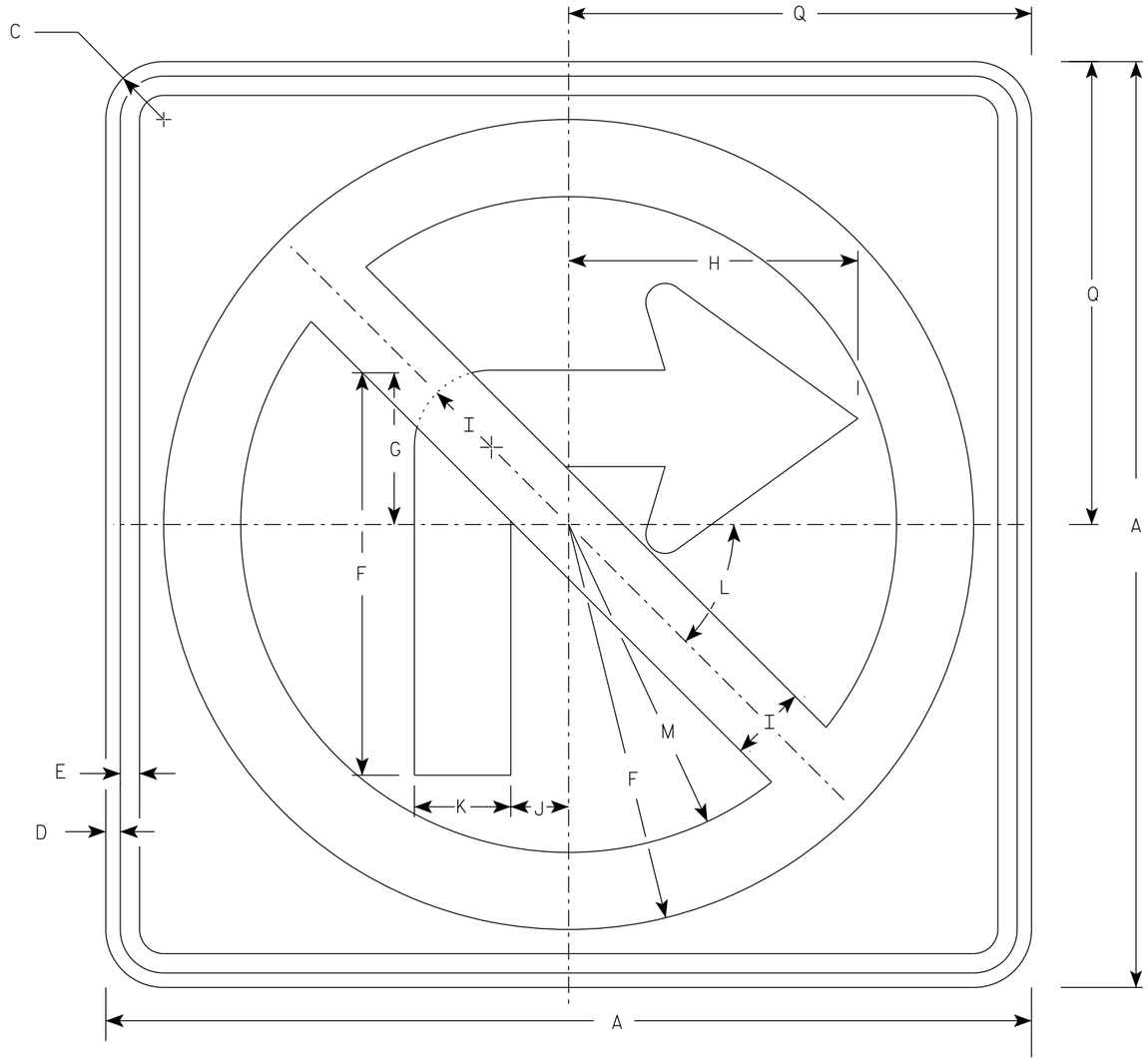
STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 2/13/2023 PLATE NO. M6-1.16

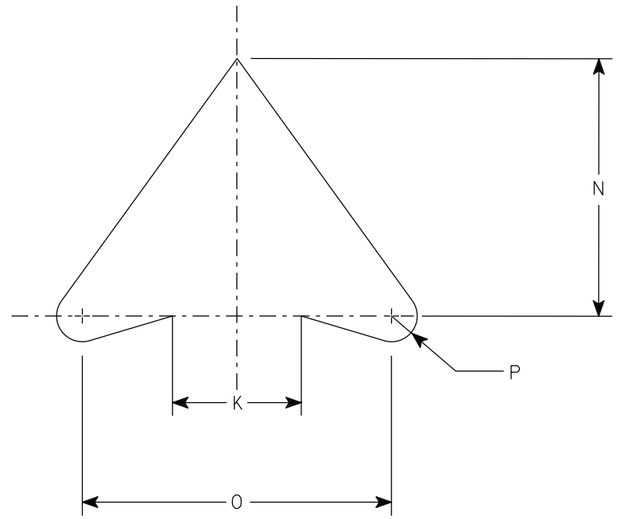
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 360 | E



R3-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - See note 3
3. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 ½	⅜	½	10 ½	4	7 ½	2	1 ½	2 ½	45	8 ½	5	6	½	12										4.0
2S	24		1 ½	⅜	½	10 ½	4	7 ½	2	1 ½	2 ½	45°	8 ½	5	6	½	12										4.0
2M	36		2 ¼	⅝	¾	15 ¾	6	11 ¼	3	2 ¼	3 ¾	45	12 ¾	7 ½	9	¾	18										9.0
3	36		2 ¼	⅝	¾	15 ¾	6	11 ¼	3	2 ¼	3 ¾	45	12 ¾	7 ½	9	¾	18										9.0
4	36		2 ¼	⅝	¾	15 ¾	6	11 ¼	3	2 ¼	3 ¾	45°	12 ¾	7 ½	9	¾	18										9.0
5	48		2 ¼	¾	1	21	8	15	4	3	5	45°	17	10	12	1	24										16.0

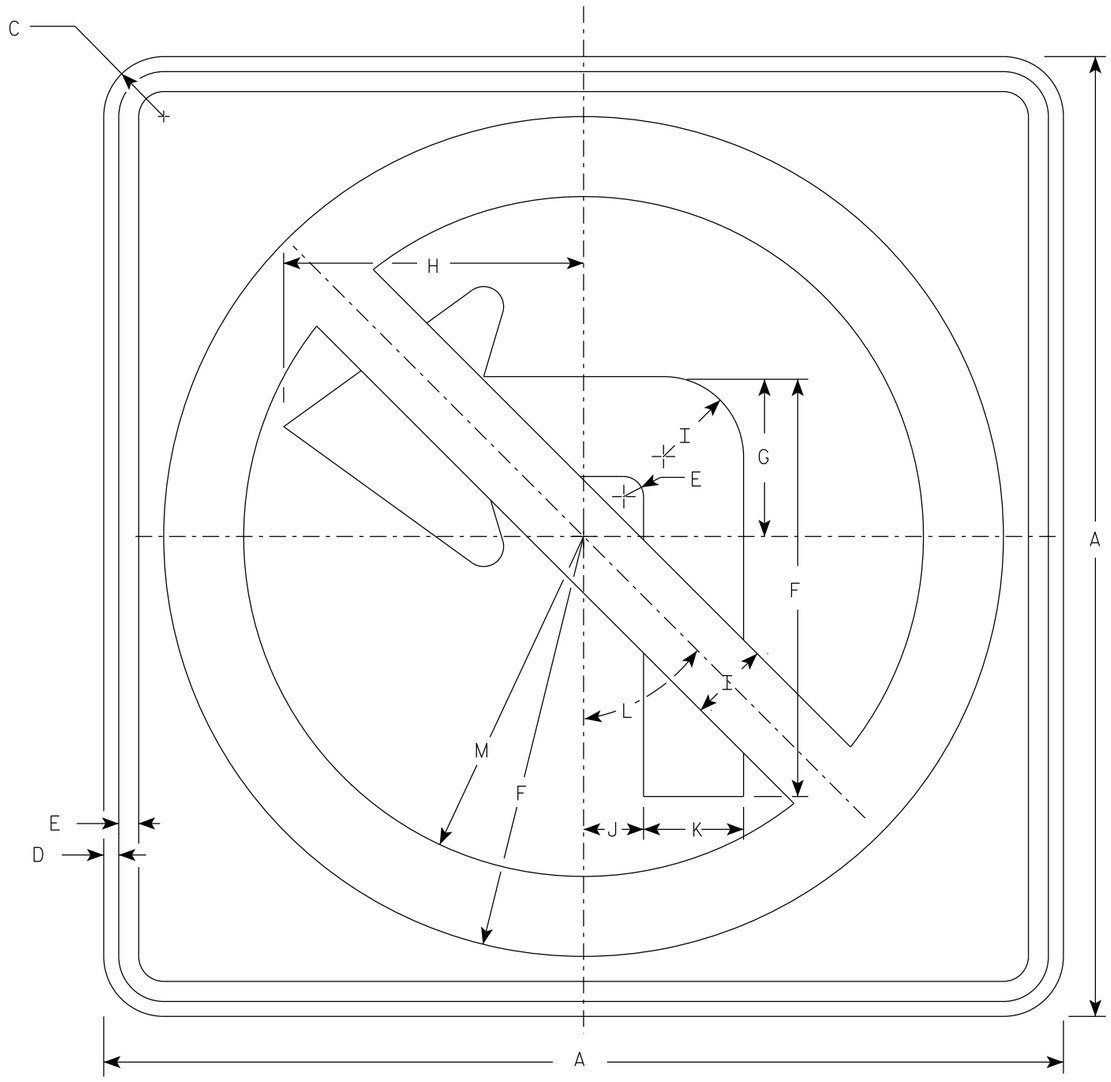
STANDARD SIGN
R3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/2/23 PLATE NO. R3-1.6

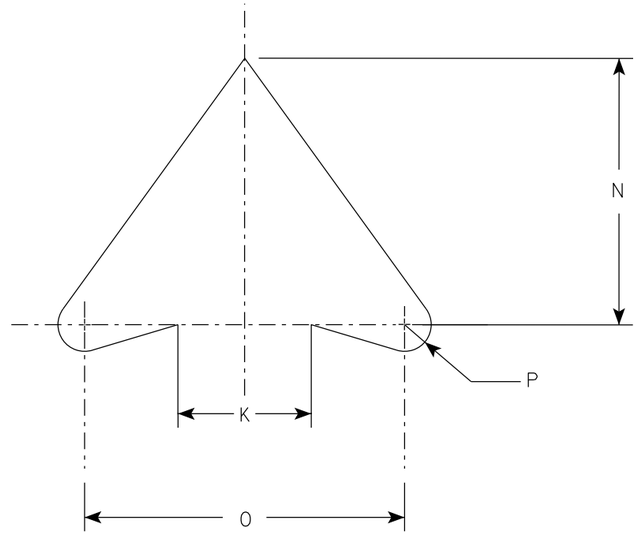
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 361 | E



R3-2

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - See note 3
3. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/2	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2S	24		1 1/2	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2M	36		2 1/4	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		2 1/4	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		2 1/4	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

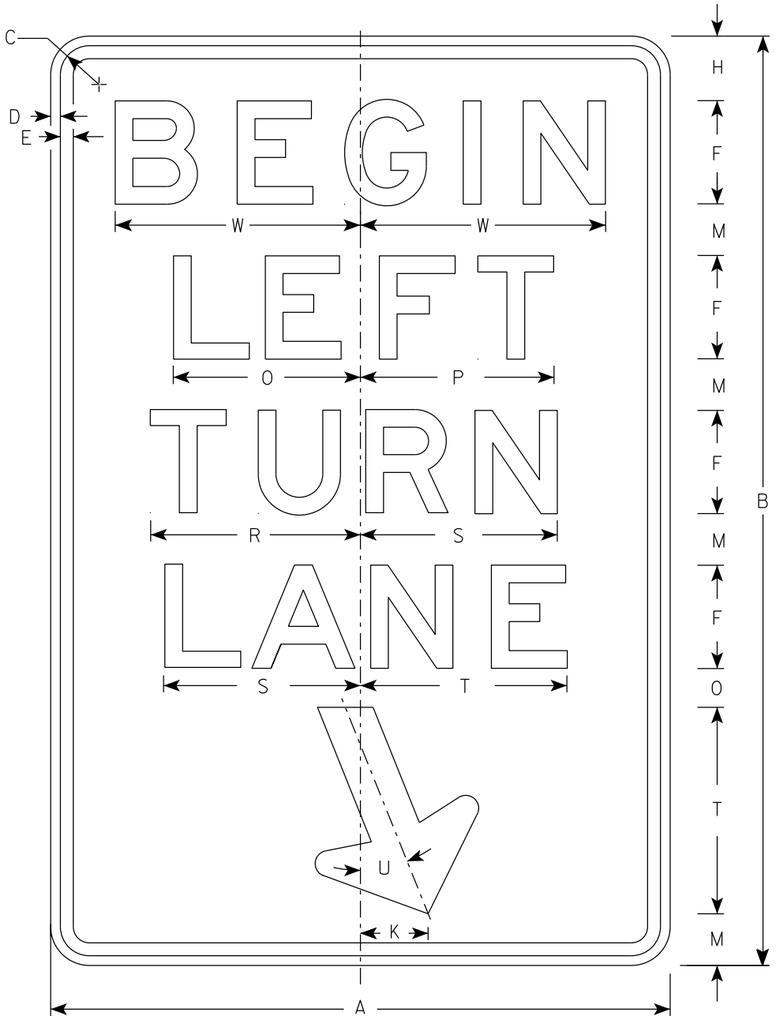
STANDARD SIGN
R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/2/23 PLATE NO. R3-2.11

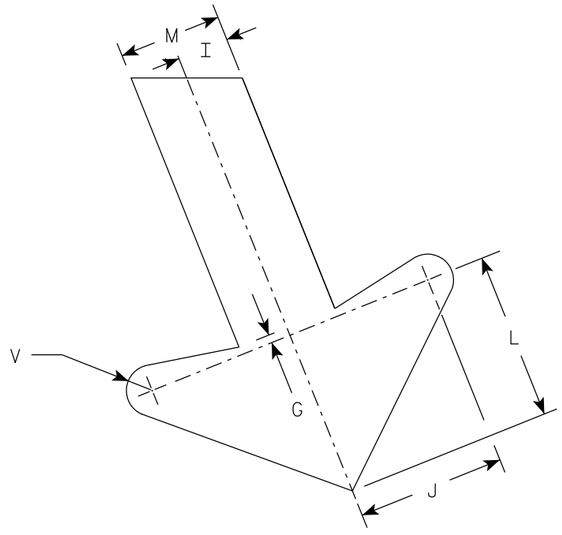
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 362 | E



R3-20L

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - 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	24	36	1 1/2	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/2	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 7/8	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	10 7/8	11 1/4		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

STANDARD SIGN
R3-20L

WISCONSIN DEPT OF TRANSPORTATION

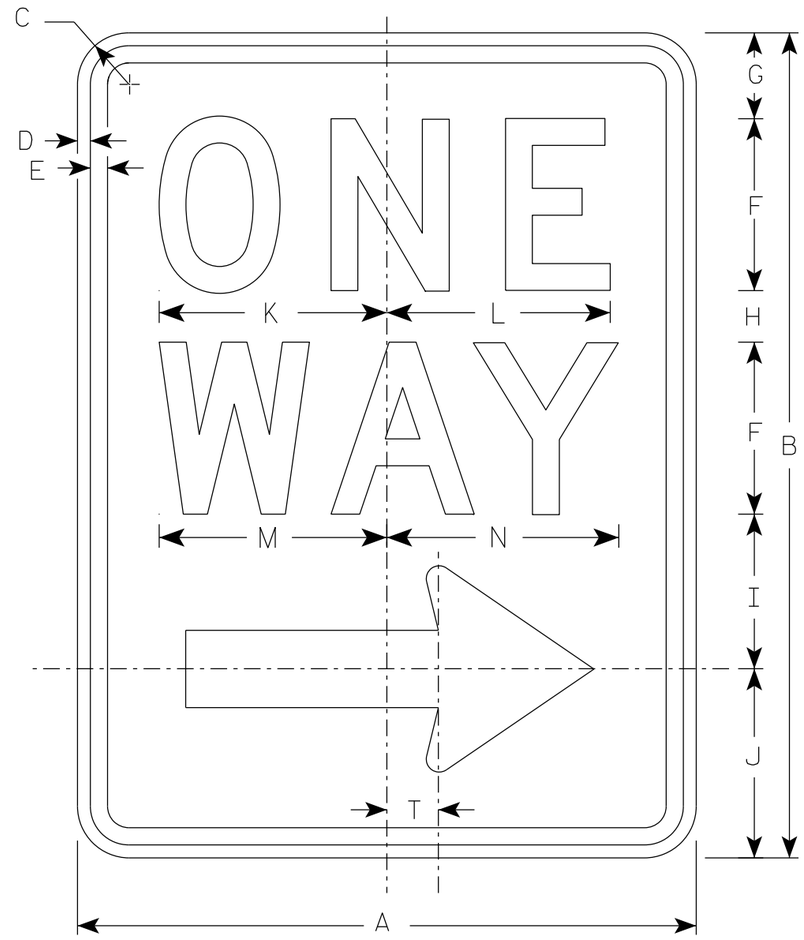
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/23/23 PLATE NO. R3-20L.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 363	E

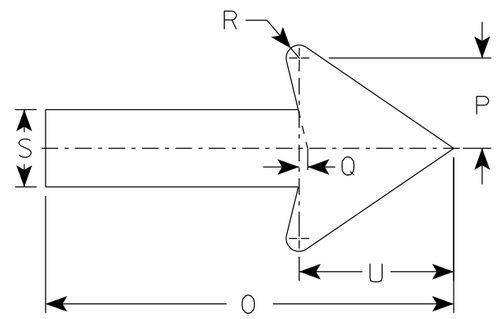
NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. R6-2L same as R6-2R except arrow points to the left.



R6-2R

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
1	18	24	1 1/2	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	1 1/2	1 1/2	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 7/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

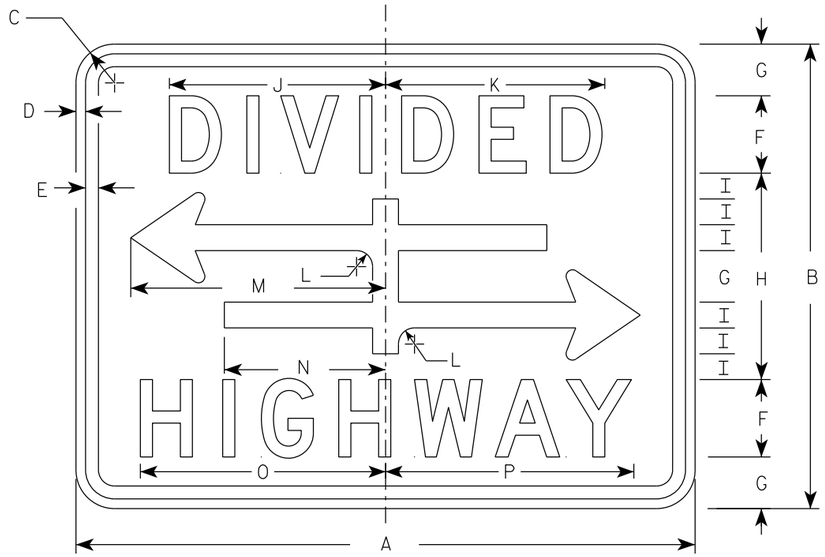
STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

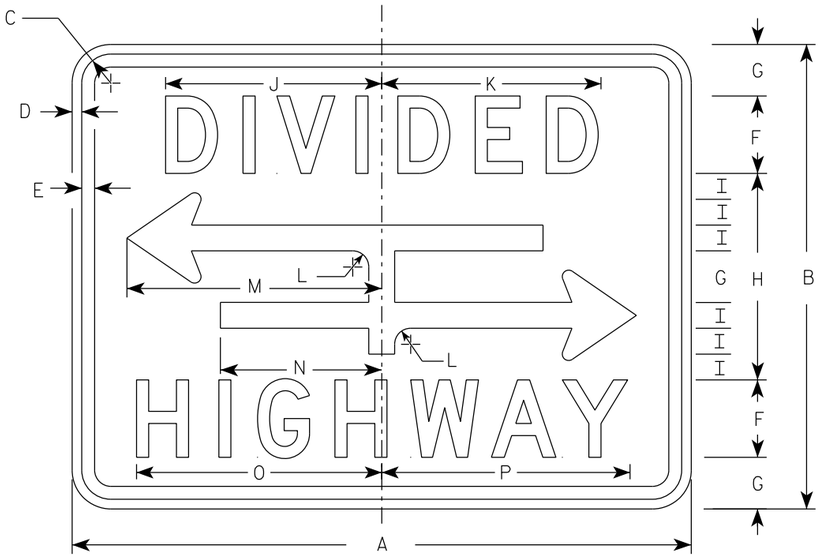
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

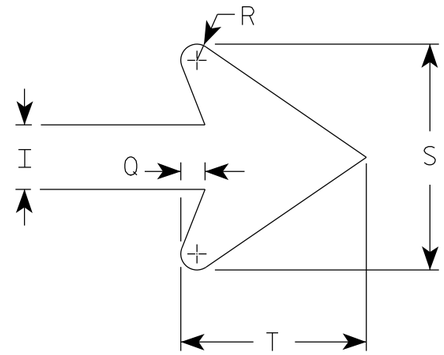
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 364 | E



R6-3



R6-3A



ARROW DETAIL

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24	18	1 1/2	3/8	3/8	3	2	8	1	8 3/8	8 1/2	5/8	9 7/8	6 1/4	9 1/2	9 5/8	3/8	1/4	3 1/2	2 3/4							3.0
2S	30	24	1 1/2	3/8	1/2	4	2 5/8	10 3/4	1 3/8	10 1/2	10 5/8	7/8	12 1/2	7 7/8	12 1/4	12 3/8	1/2	3/8	4 5/8	3 5/8							5.0
2M	30	24	1 1/2	3/8	1/2	4	2 5/8	10 3/4	1 3/8	10 1/2	10 5/8	7/8	12 1/2	7 7/8	12 1/4	12 3/8	1/2	3/8	4 5/8	3 5/8							5.0
3																											
4																											
5																											

STANDARD SIGN
R6-3 & R6-3A

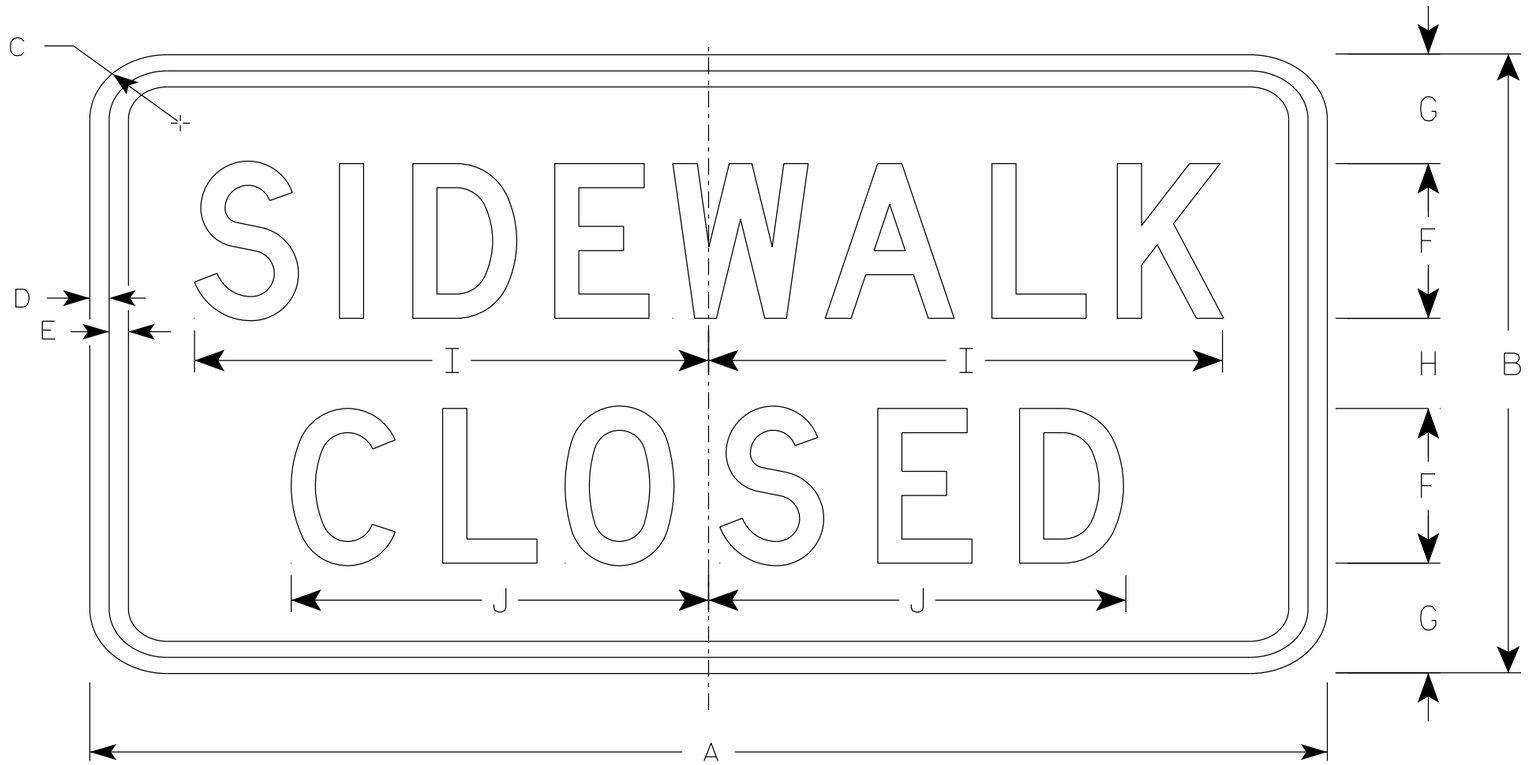
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/26/23 PLATE NO. R6-3.6

PROJECT NO:

SHEET NO: 365 E



R9-9

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 ½	½	½	3	2 ⅛	1 ¾	10	8 ⅛																	2.0
2M	24	12	1 ½	½	½	3	2 ⅛	1 ¾	10	8 ⅛																	2.0
3	30	18	1 ½	½	½	4	3 ½	3	12 ½	10 ¼																	3.75
4																											
5																											

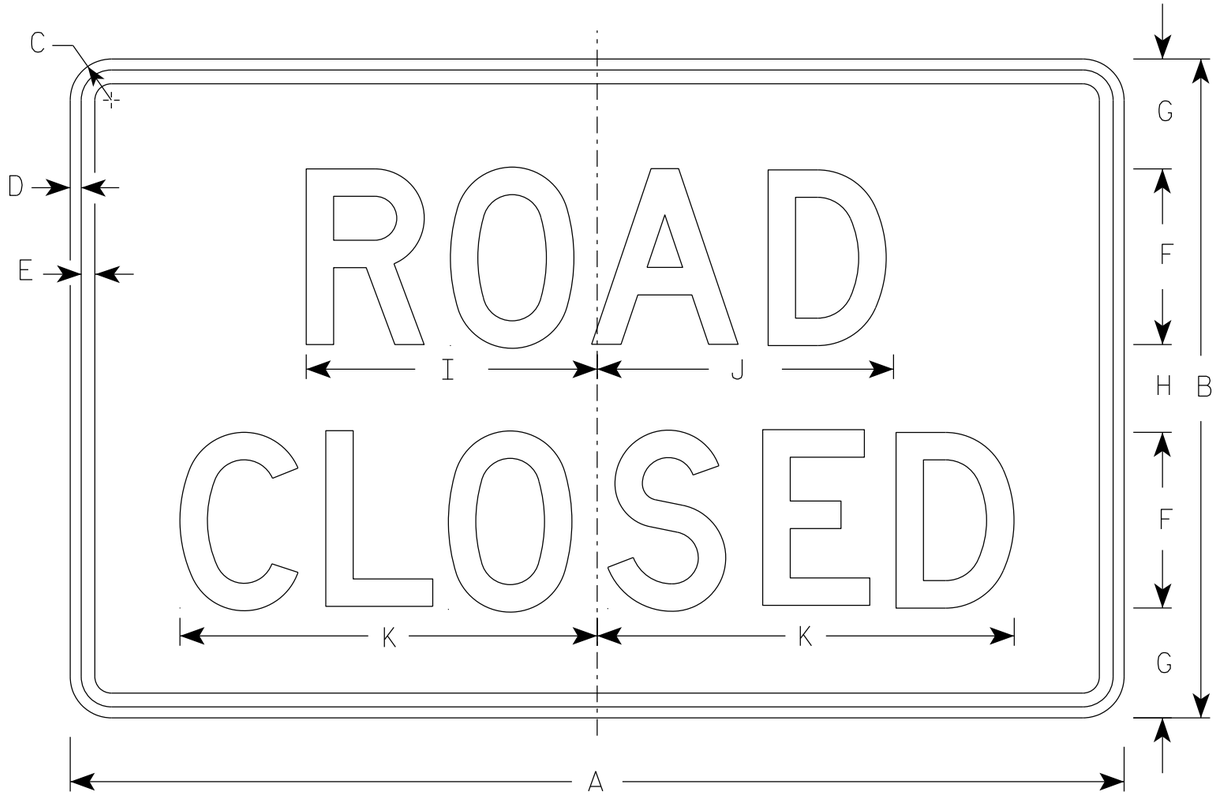
STANDARD SIGN
R9-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/24/24 PLATE NO. R9-9.7

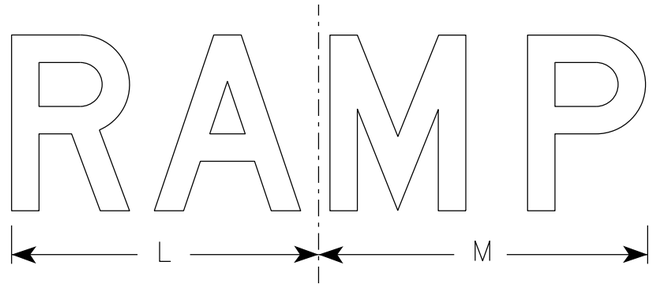
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 366 | E



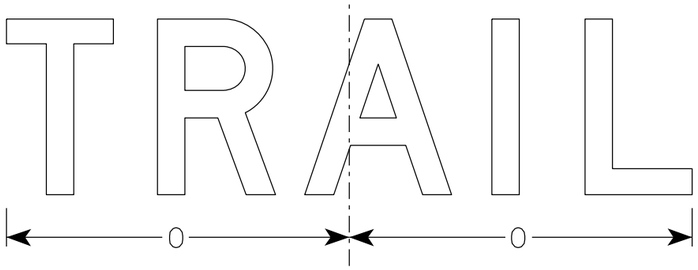
R11-2

NOTES

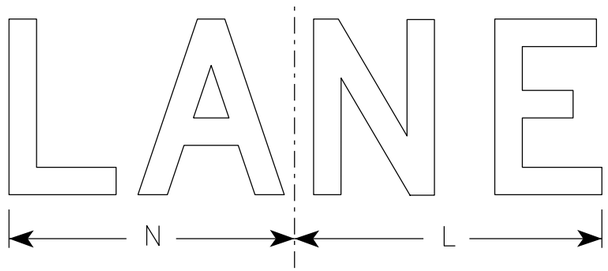
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



R11-2R



R11-2T



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
2M	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
3	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
4	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
5	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0

STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

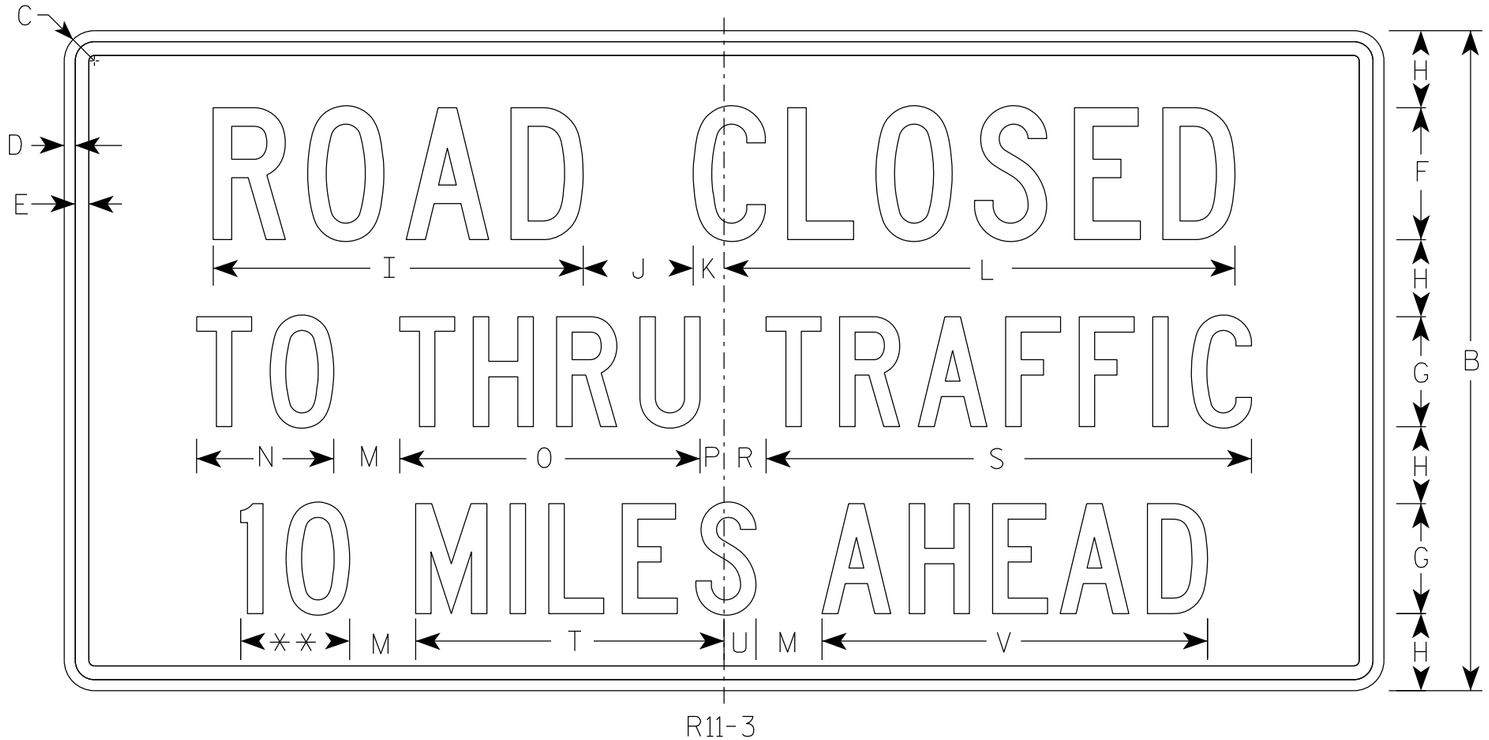
DATE 2/5/24 PLATE NO. R11-2.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R112.dgn PLOT DATE : 5-FEB 2024 2:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

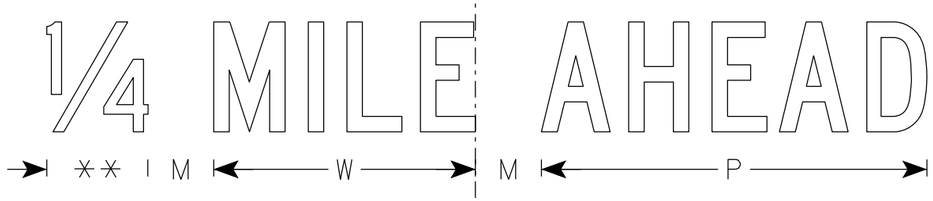
NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.



R11-3

** See Note 5



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/2	3/8	3/8	4	3	2	11 1/4	3	1 1/8	15 3/8	2	3 3/4	8 1/4	5/8		1 3/8	13 1/4	8 3/8	7/8	10 1/2	7 1/8				4.5
2S	60	30	1 7/8	1/2	5/8	6	5	3 1/2	16 7/8	5	1 3/8	23 1/4	3	6 1/4	13 5/8	1 1/8		1 7/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5
2M	60	30	1 7/8	1/2	5/8	6	5	3 1/2	16 7/8	5	1 3/8	23 1/4	3	6 1/4	13 5/8	1 1/8		1 7/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5
3																											
4																											
5																											

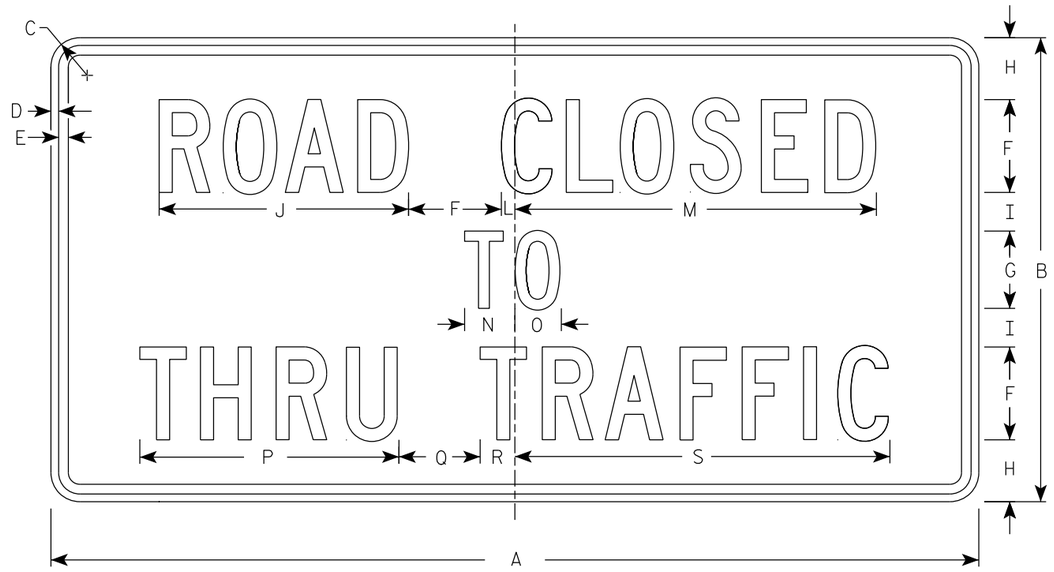
STANDARD SIGN
R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/5/24 PLATE NO. R11-3.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 368	E



R11-4

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	60	30	1 7/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 7/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

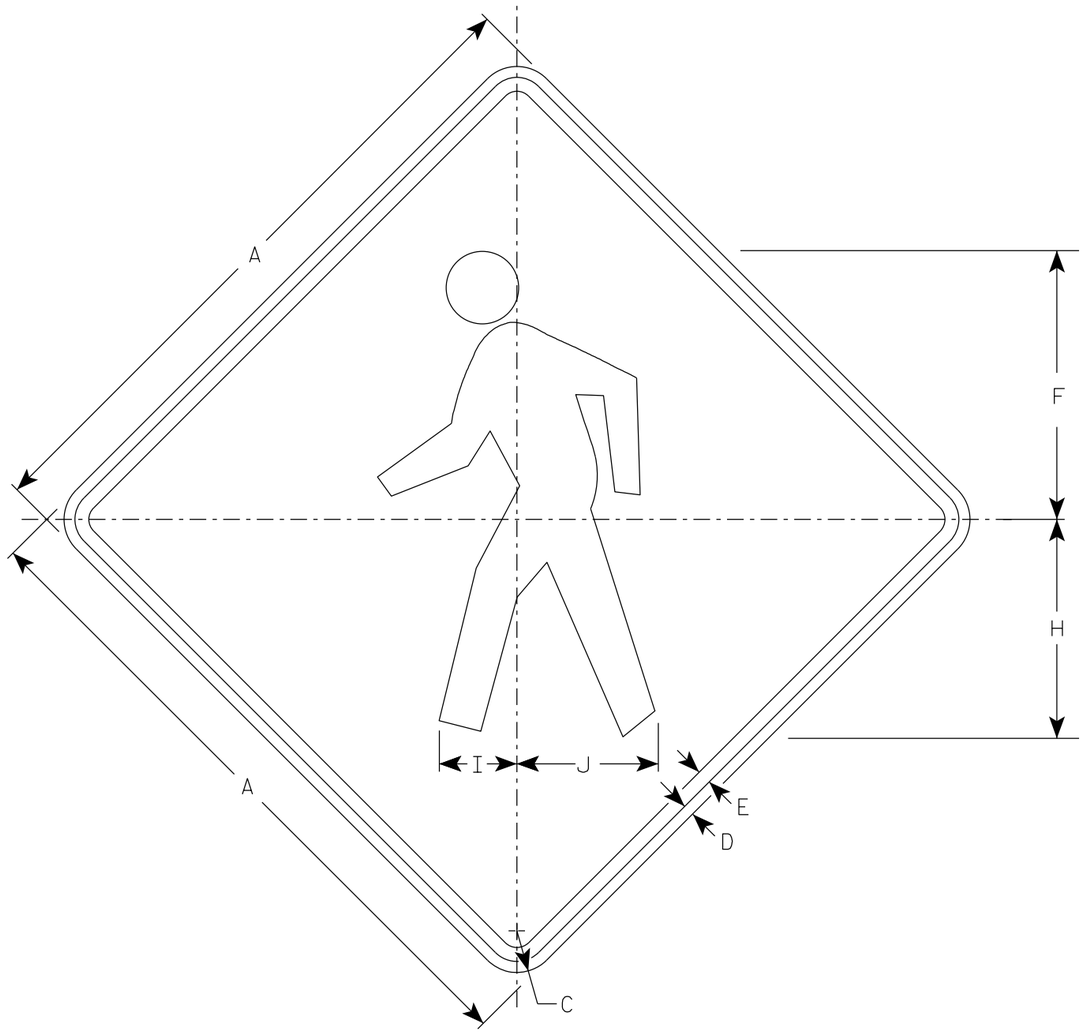
STANDARD SIGN
R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/5/24 PLATE NO. R11-4.4

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 369 | E



W11-2

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/2	3/8	1/2	9 3/4		7 7/8	2 7/8	5 1/8																	4.0
2S	30		1 7/8	1/2	5/8	12 1/8		9 7/8	3 1/2	6 3/8																	6.25
2M	36		2 1/4	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
3	36		2 1/4	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
4	48		3	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
5																											

STANDARD SIGN

W11-2

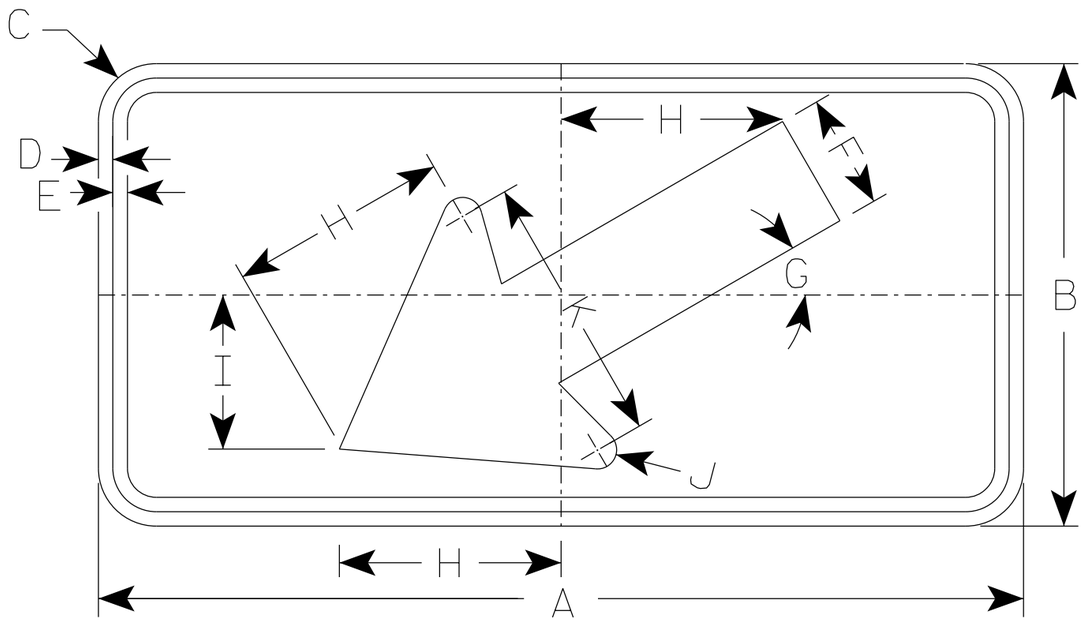
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

For State Traffic Engineer

DATE 6/15/2023 PLATE NO. W11-2.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 370 E



W16-7L

* For 36" x 36" Warning Signs, use 30" x 18" W16-7L signs.
* For 48" x 48" Warning Signs, use 48" x 24" W16-7L signs.

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. W16-7R is the same as W16-7L except the arrow is reversed along the vertical centerline.

	SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
	1																											
	2S	24	12	1 ½	⅜	⅜	3	30°	5 ¾	4	½	7																2.0
*	2M	30	18	1 ½	⅜	½	4 ½	30°	8 ½	6	⅝	10 ¼																3.75
*	3	30	18	1 ½	⅜	½	4 ½	30°	8 ½	6	⅝	10 ¼																3.75
*	4	48	24	1 ⅞	½	⅝	6	30°	11 ½	8	1	14																8.0
	5																											

STANDARD SIGN
W16-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

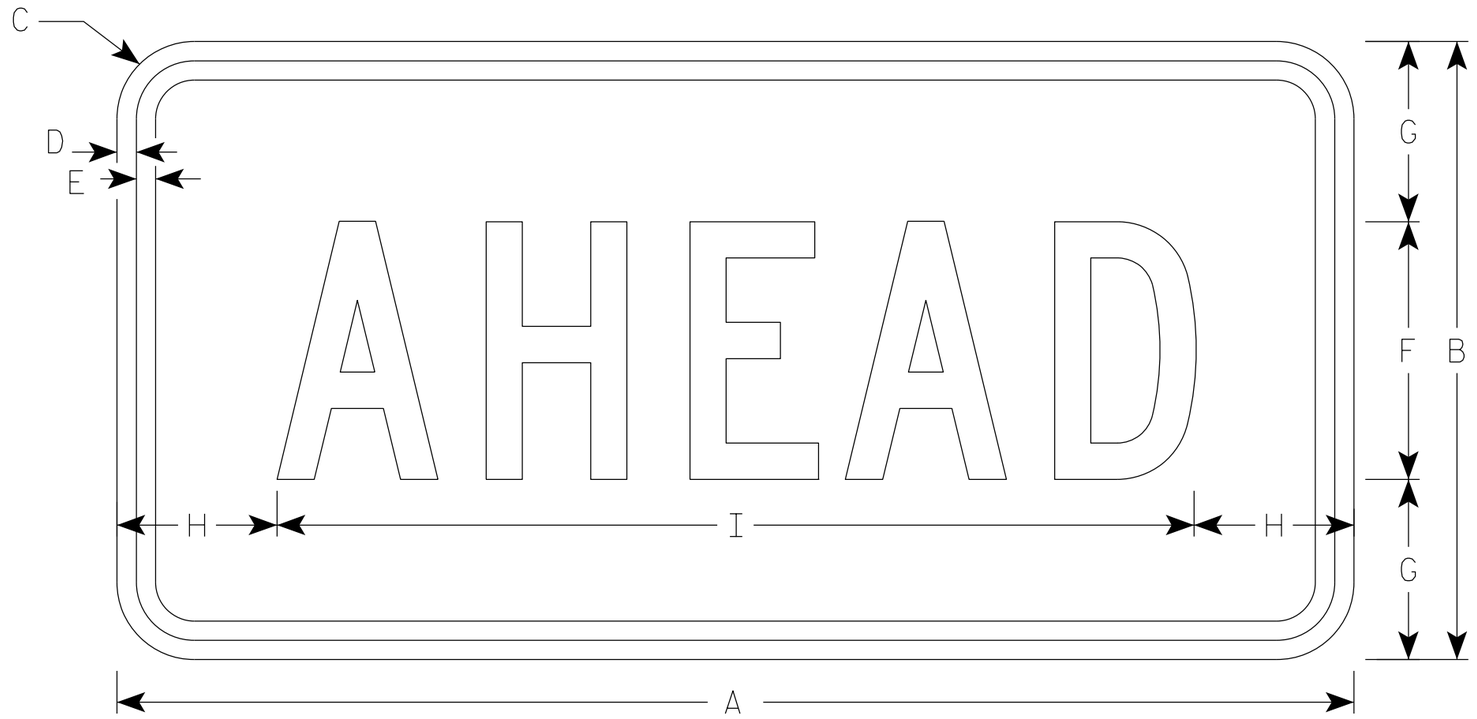
DATE 1/9/2024 PLATE NO. W16-7.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 371 E

7

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - C



W16-9P

* For 36" x 36" Warning Signs, use 30" x 18" W16-9P signs.
* For 48" x 48" Warning Signs, use 48" x 24" W16-9P signs.

	SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
	1																											
	2S	24	12	1 1/2	3/8	3/8	5	3 1/2	3 1/8	17 3/4																		2.0
*	2M	30	18	1 1/2	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
*	3	30	18	1 1/2	3/8	1/2	7	3 1/2	2 3/4	24 1/2																		3.75
*	4	48	24	1 7/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
	5																											

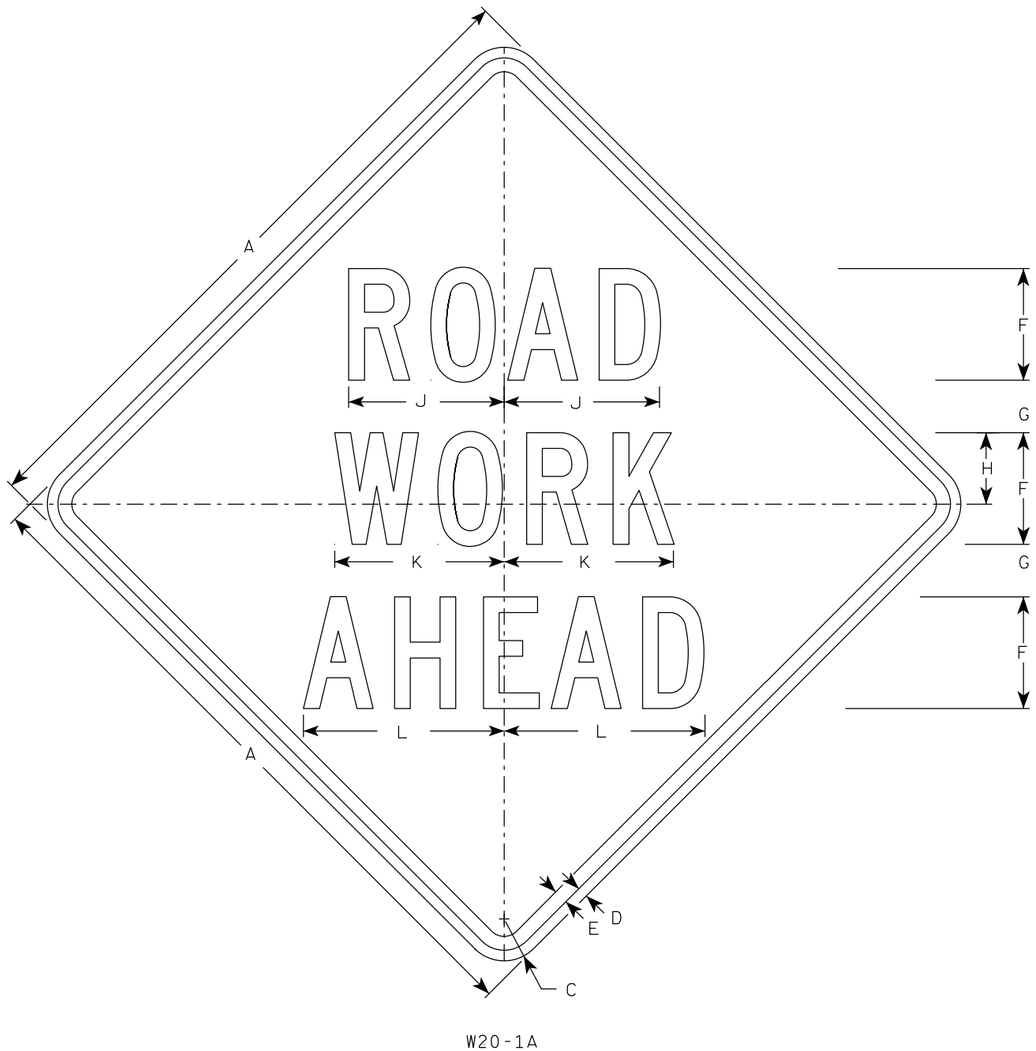
STANDARD SIGN
W16-9P

WISCONSIN DEPT OF TRANSPORTATION

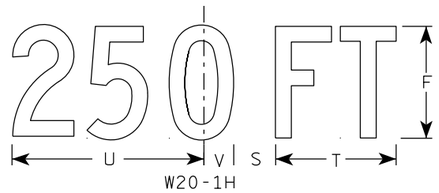
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/9/2024 PLATE NO. W16-9P.9

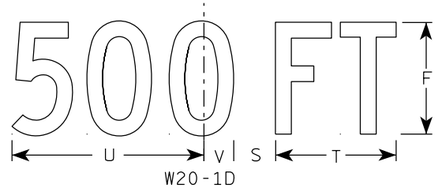
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 372 E



W20-1A

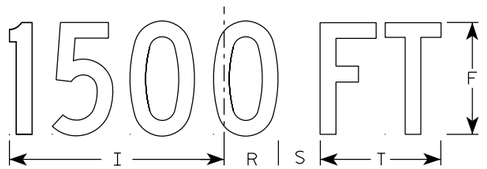


W20-1H



W20-1D

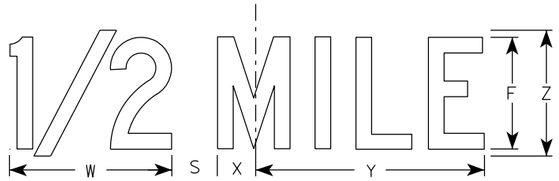
W20-1C



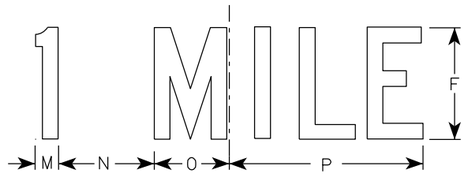
W20-1B

NOTES

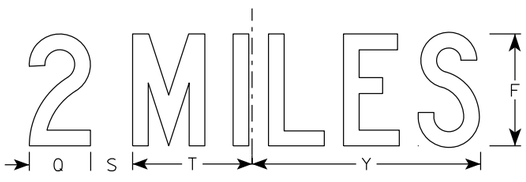
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



W20-1G



W20-1F



W20-1E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9	3 1/4	2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, E, F, G & H

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/10/2024 PLATE NO. W20-1.12

PROJECT NO:

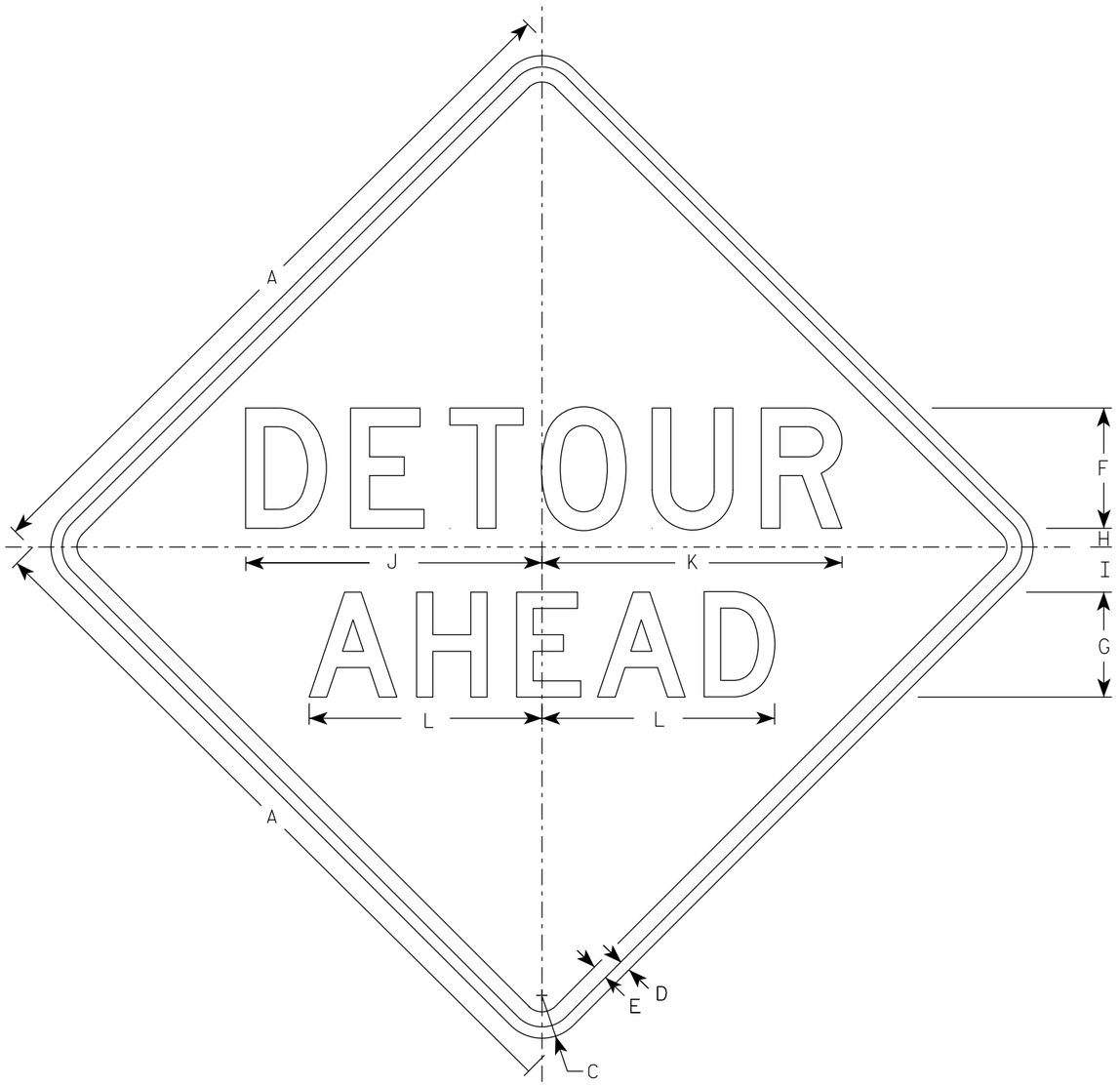
SHEET NO: 373 E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 10-JAN 2024 11:16 PLOT BY : dotc4c

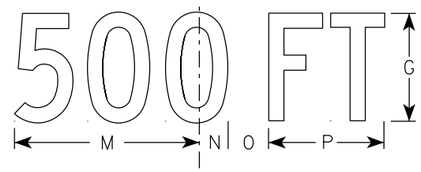
WISDOT/CADDS SHEET 42

7

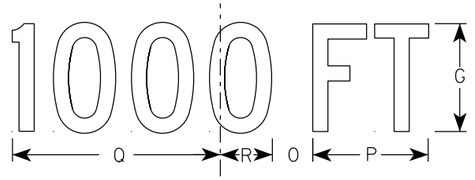
7



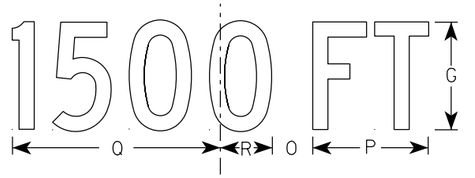
W20-2A



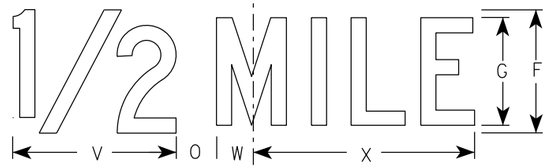
W20-2D



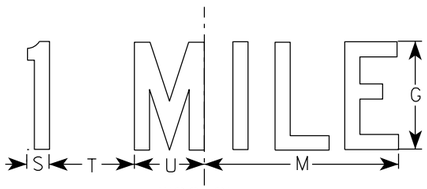
W20-2C



W20-2B



W20-2G



W20-2F

NOTES

1. Sign is Type II - Type F Reflective
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		2 1/4	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		3	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		3	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		3	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		3	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		3	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

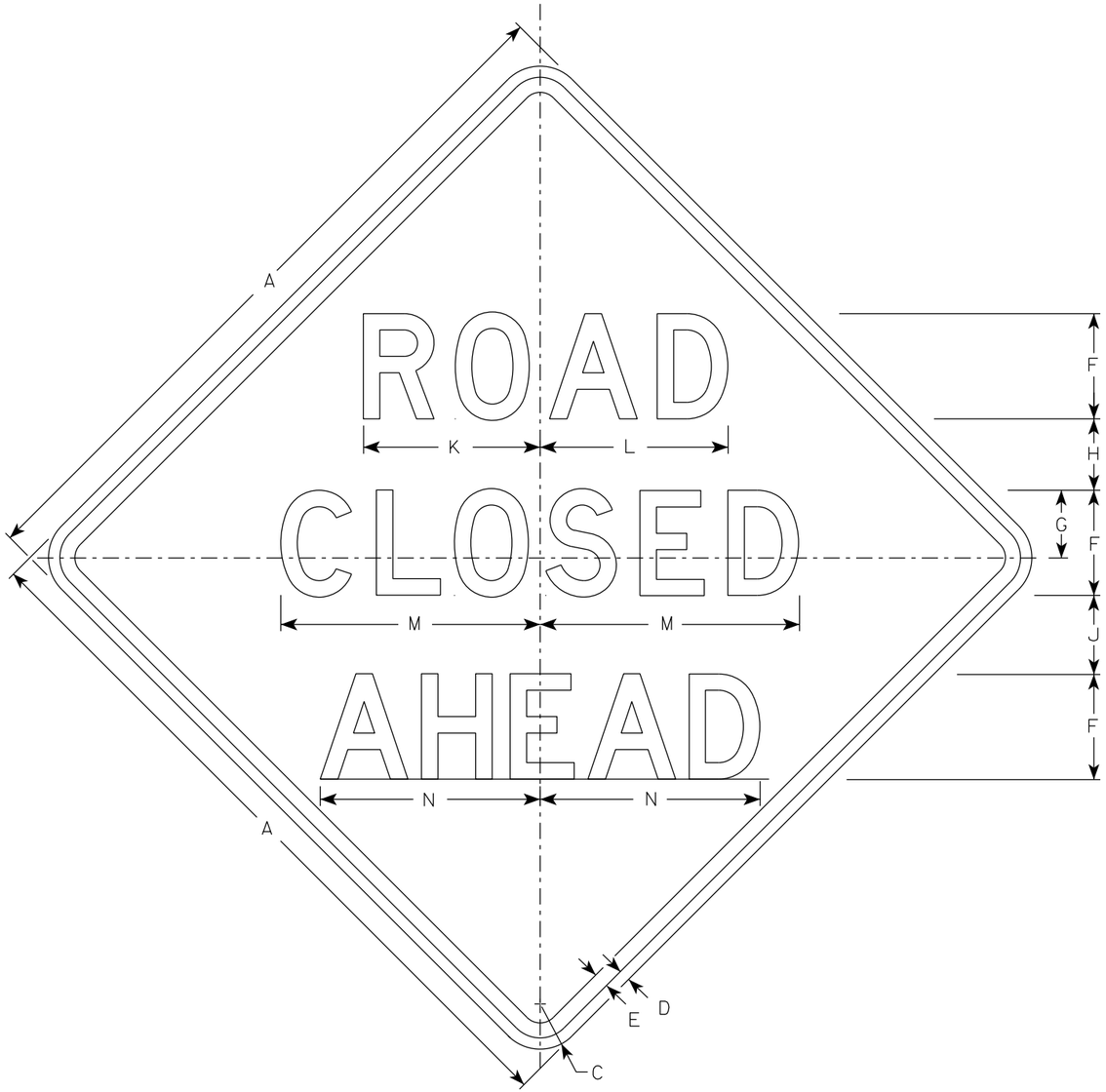
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

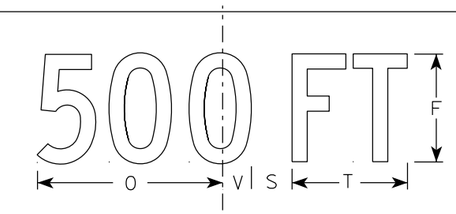
DATE 1/10/2024 PLATE NO. W20-2.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

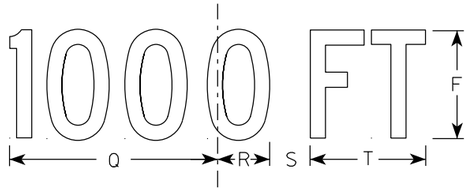
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W202.DGN PLOT DATE : 10-JAN 2024 11:36 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



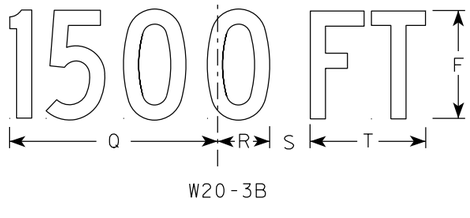
W20-3A



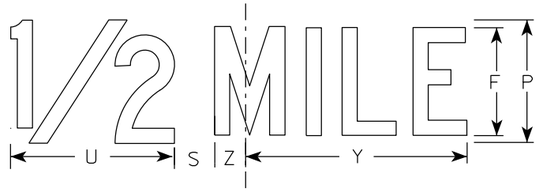
W20-3D



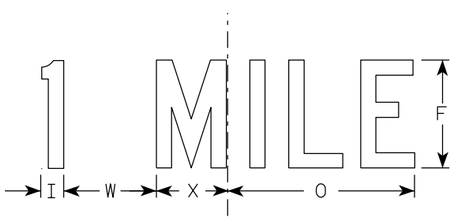
W20-3C



W20-3B



W20-3G



W20-3F

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

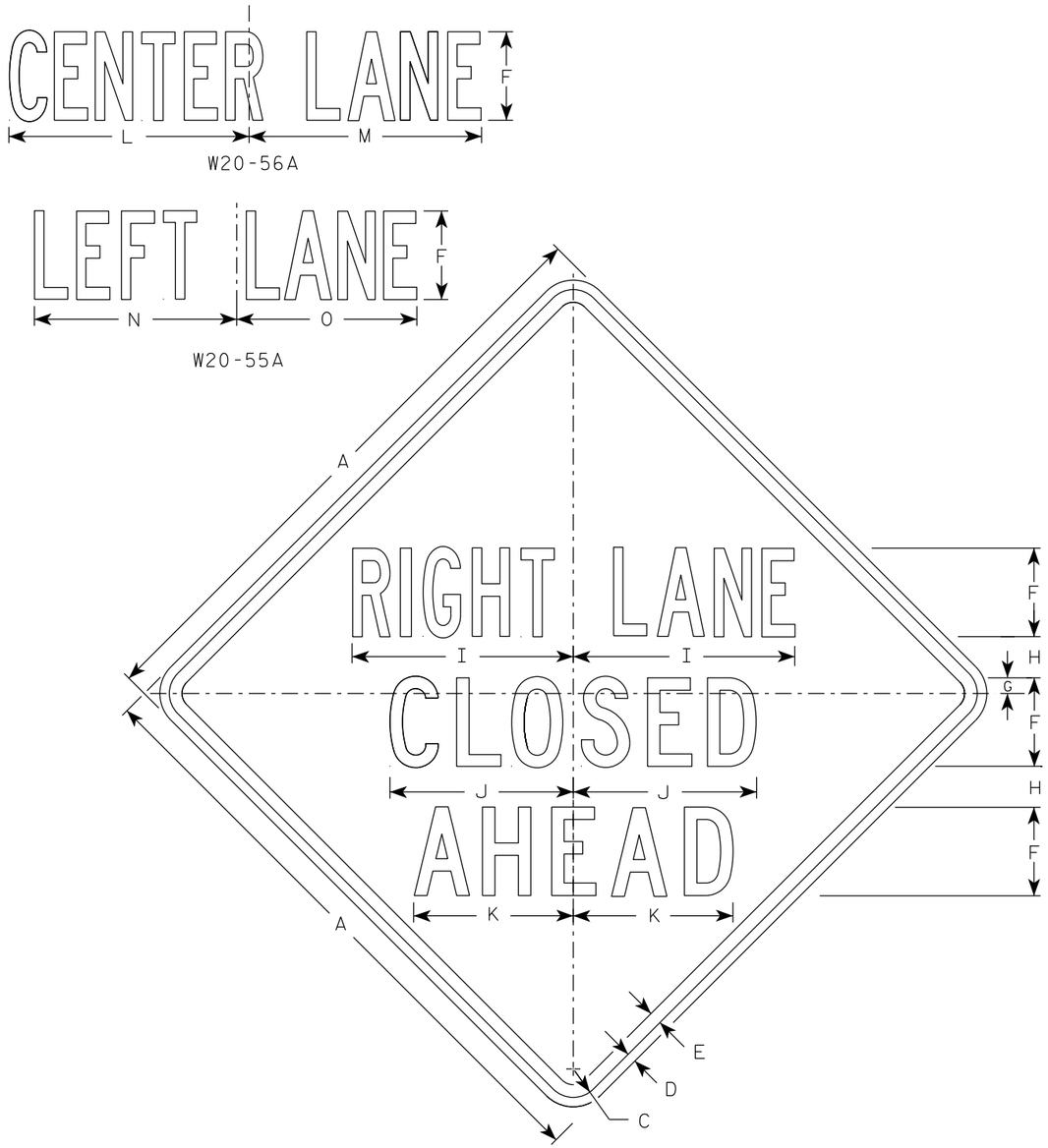
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/10/2024 PLATE NO. W20-3.8

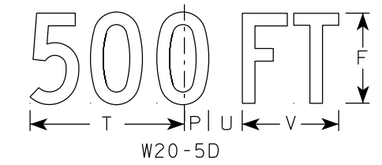
PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W203.DGN PLOT DATE : 10-JAN 2024 12:02 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

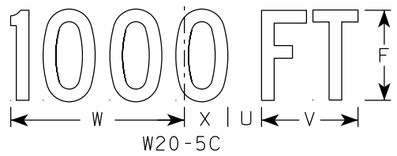
7



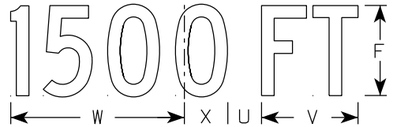
W20-5A



W20-5D



W20-5C



W20-5B

W20-5G

W20-5F

NOTES

1. Sign is Type II - Type F Reflective
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. " _____ LANE" is Series B.
   All other copy is 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	36	6	2 1/4	5/8	3/4	5	7/8	2 1/2	13 1/8	10 3/4	9 1/2	14 1/4	13 5/8	12	12	1 3/8	1 1/8	4 1/2	3 1/2	9	1 7/8	5 5/8	10 1/8	2 1/2	1 3/4	8	9.0
2S	48	8	3	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
2M	48	8	3	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
3	48	8	3	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
4	48	8	3	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
5	48	8	3	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0

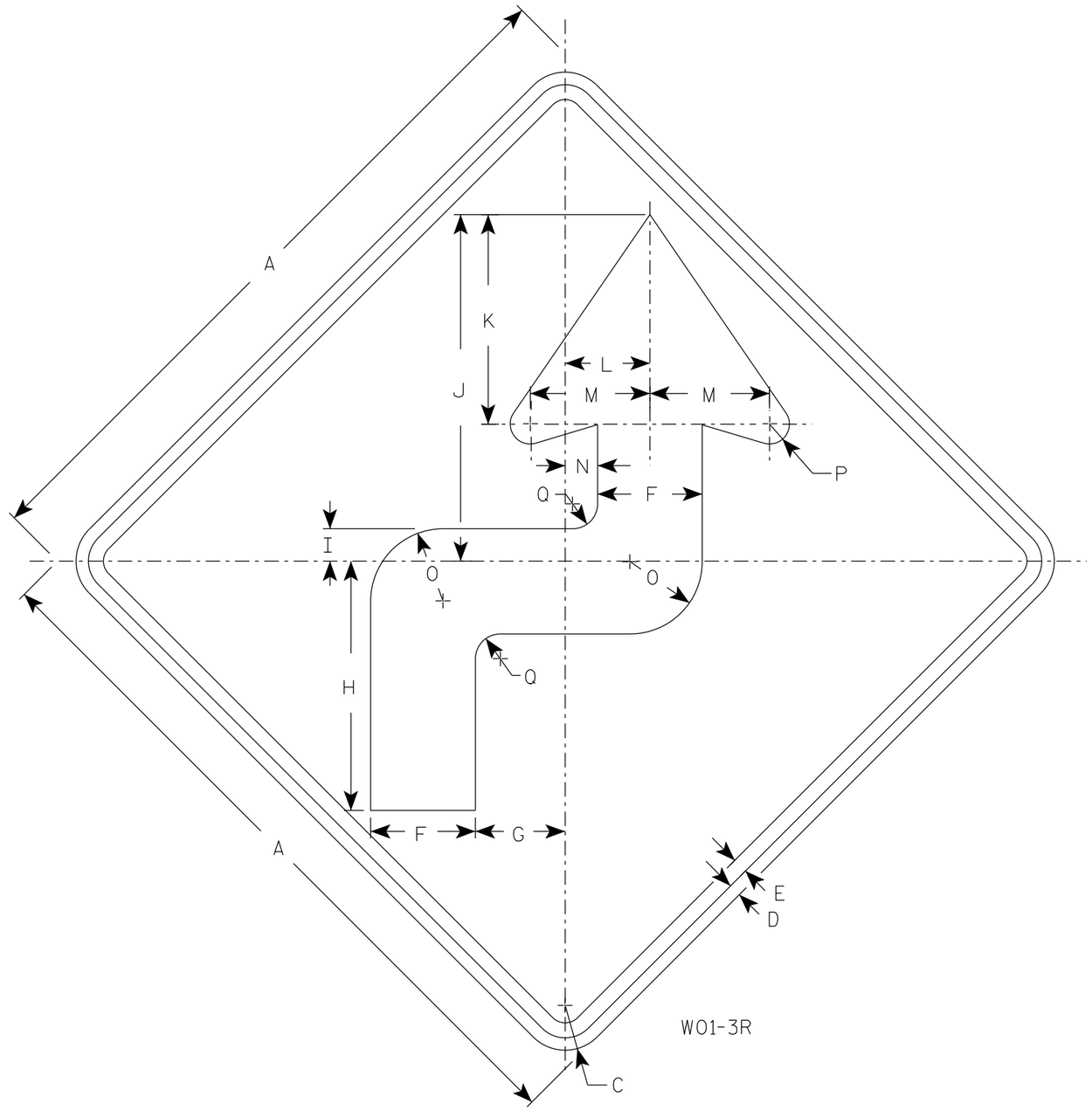
STANDARD SIGN
W20-5A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/27/24 PLATE NO. W20-5.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 376	E



W01-3R

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W01-3L is the same as W01-3R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	5 1/4	4 1/2	12 1/2	1 5/8	17 3/8	10 1/2	4 1/4	6	1 5/8	3 5/8	1	1 1/4										9.0
2S	48		3	3/4	1	7	6	16 5/8	2 1/4	23 1/4	14	5 5/8	8	2 1/8	4 7/8	1 1/4	1 5/8										16.0
2M	48		3	3/4	1	7	6	16 5/8	2 1/4	23 1/4	14	5 5/8	8	2 1/8	4 7/8	1 1/4	1 5/8										16.0
3	48		3	3/4	1	7	6	16 5/8	2 1/4	23 1/4	14	5 5/8	8	2 1/8	4 7/8	1 1/4	1 5/8										16.0
4	48		3	3/4	1	7	6	16 5/8	2 1/4	23 1/4	14	5 5/8	8	2 1/8	4 7/8	1 1/4	1 5/8										16.0
5	48		3	3/4	1	7	6	16 5/8	2 1/4	23 1/4	14	5 5/8	8	2 1/8	4 7/8	1 1/4	1 5/8										16.0

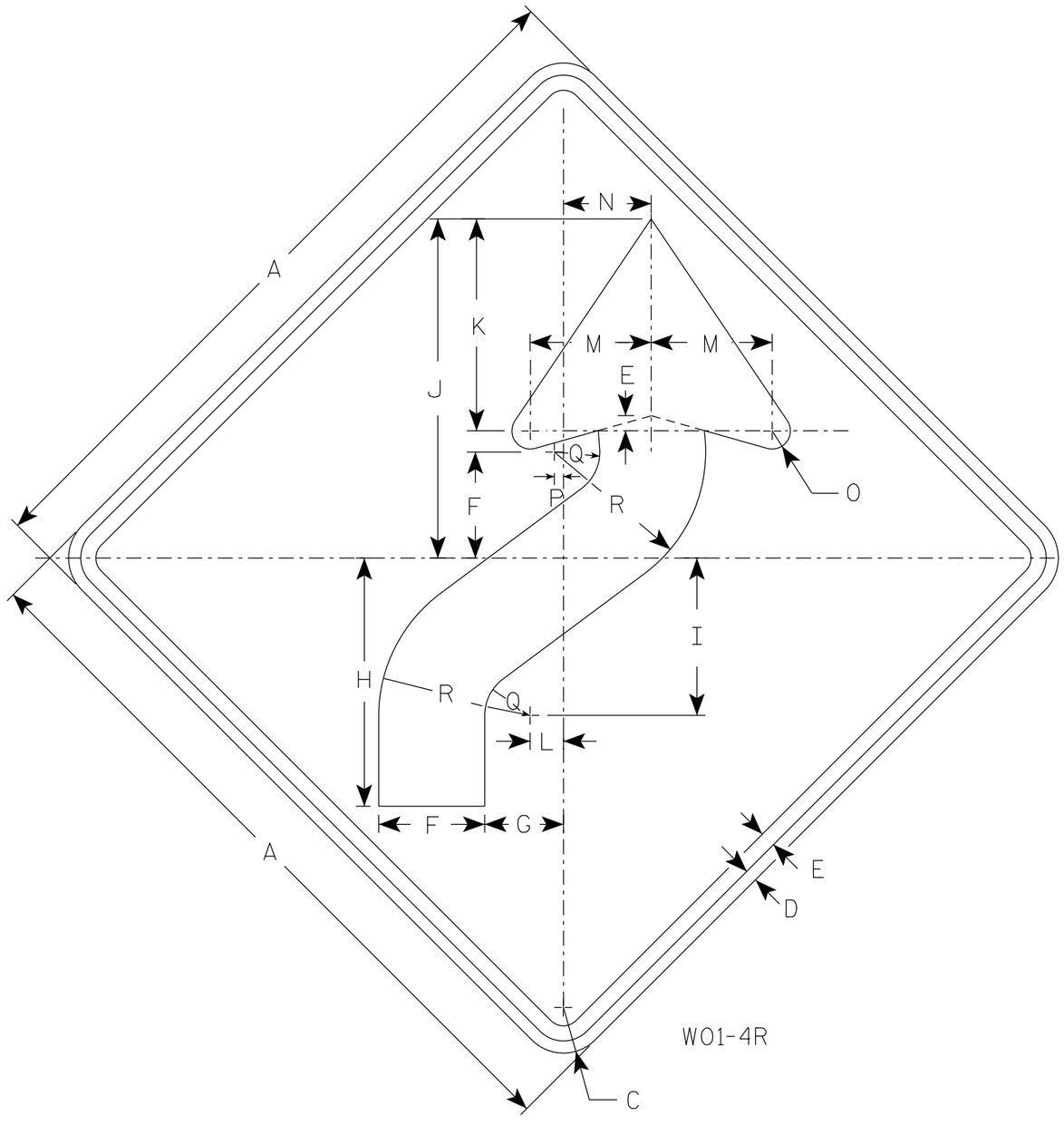
STANDARD SIGN
W01-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 1/24/2024 PLATE NO. W01-3.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 377 | E



W01-4R

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W01-4L is the same as W01-4R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
2S	48		3	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
2M	48		3	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
3	48		3	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
4	48		3	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
5	48		3	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

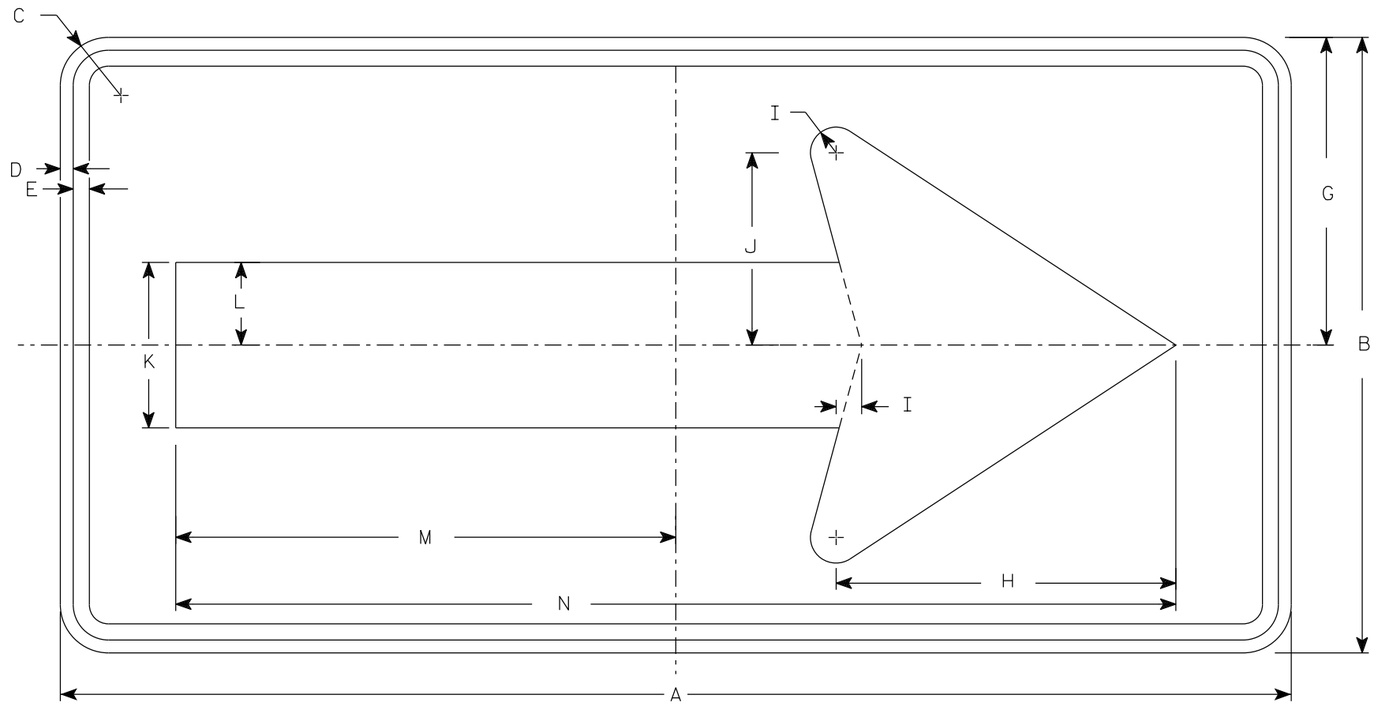
STANDARD SIGN
W01-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 1/24/2024 PLATE NO. W01-4.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 378 | E



WO1-6

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	24	1 7/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 7/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 7/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 7/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	60	30	1 7/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5

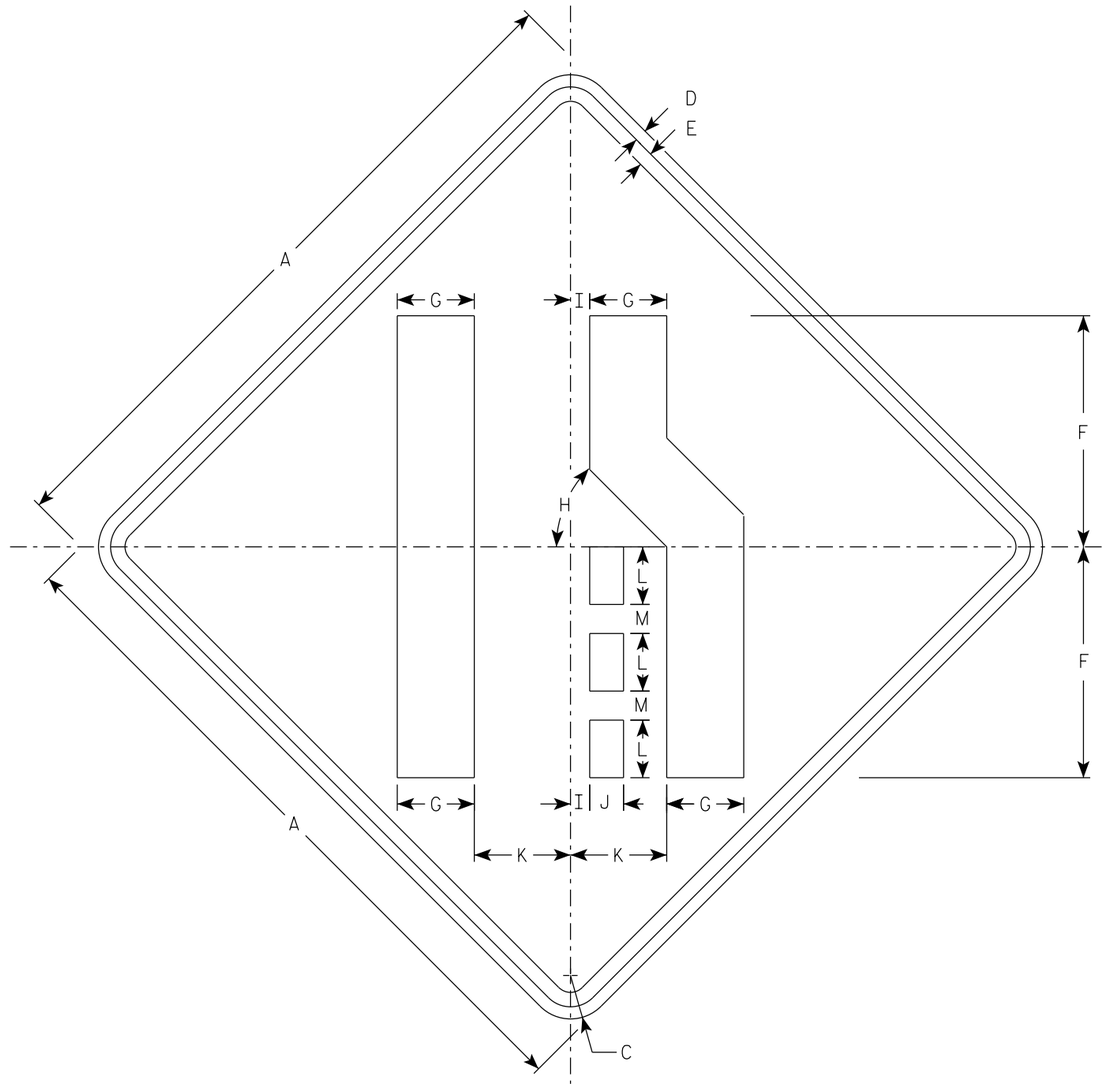
STANDARD SIGN
WO1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/24/2024 PLATE NO. WO1-6.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E



W04-2R

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W04-2L is the same as W04-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2S	48		3	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
2M	48		3	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
3	48		3	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
4	48		3	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		3	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN
W04-2

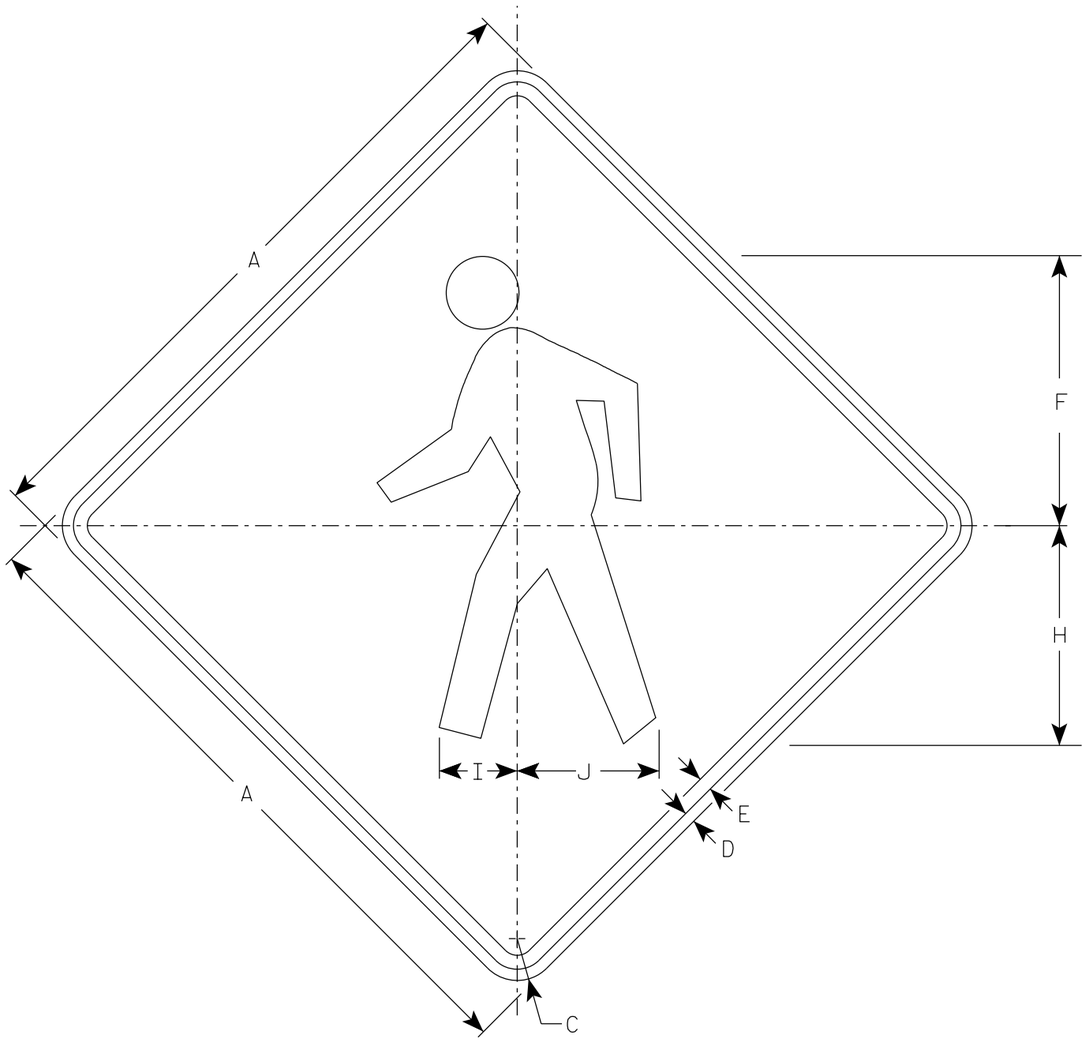
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/25/2024 PLATE NO. W04-2.2

PROJECT NO:

SHEET NO: 380 E



WO11-2

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
2S	48		3	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
2M	48		3	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
3	48		3	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
4	48		3	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
5																											

STANDARD SIGN

WO11-2

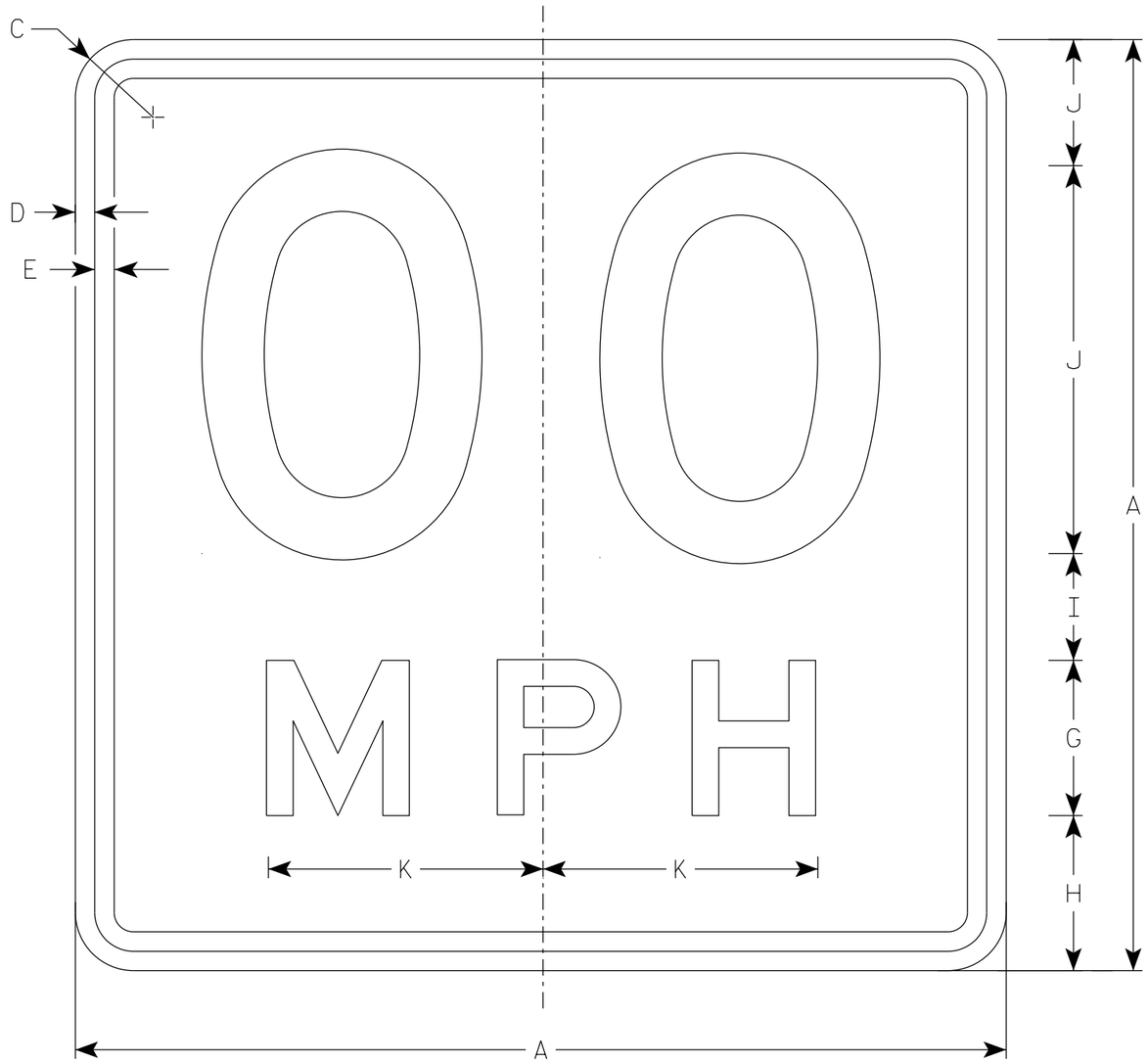
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

For State Traffic Engineer

DATE 2/1/2024 PLATE NO. WO11-2.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 381 E



W013-1

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is Series E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/2	3/8	1/2	10	4	4	2 3/4	3 1/4	7 1/8																4.0
2S	36		2 1/4	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.0
2M	36		2 1/4	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.0
3	36		2 1/4	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.0
4	36		2 1/4	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.0
5	36		2 1/4	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.0

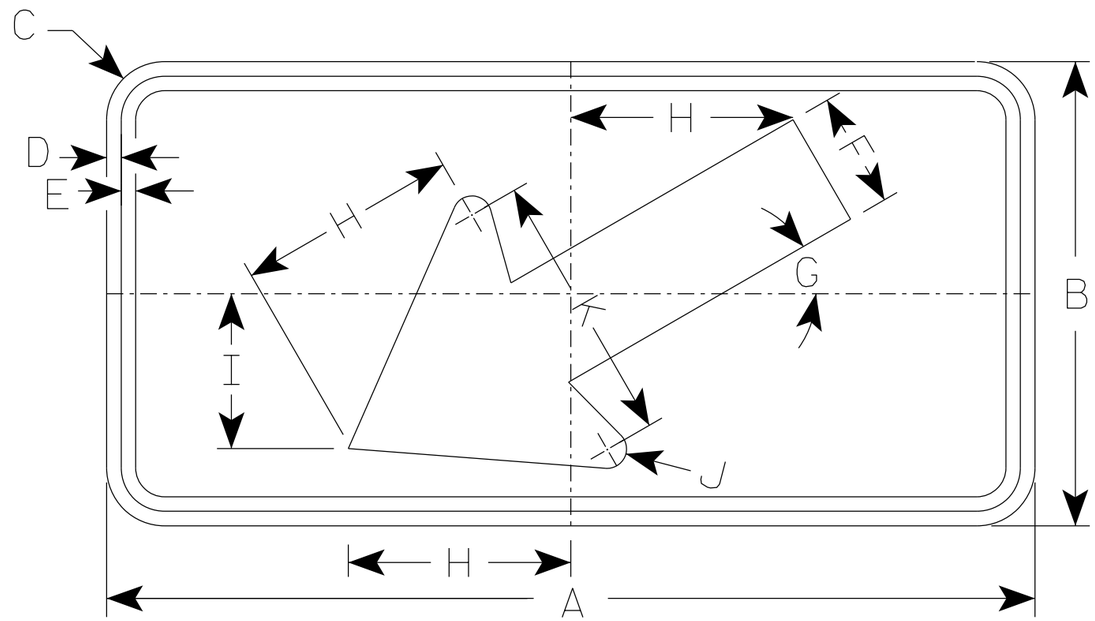
STANDARD SIGN
W013-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/1/2024 PLATE NO. W013-1.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



W016-7L

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded but corners shall be rounded when base material is metal.
4. W016-7R is the same as W016-L except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	18	1 1/2	3/8	1/2	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
2S	48	24	1 7/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0
2M	48	24	1 7/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0
3	48	24	1 7/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0
4	48	24	1 7/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0
5	48	24	1 7/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0

STANDARD SIGN
W016-7

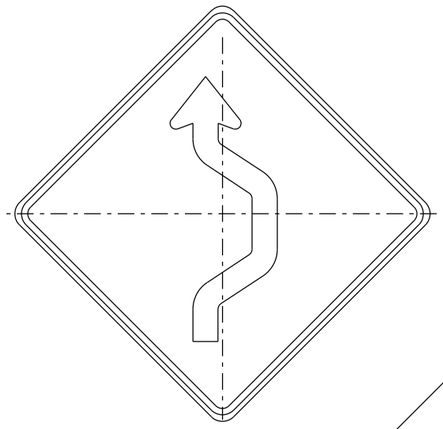
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

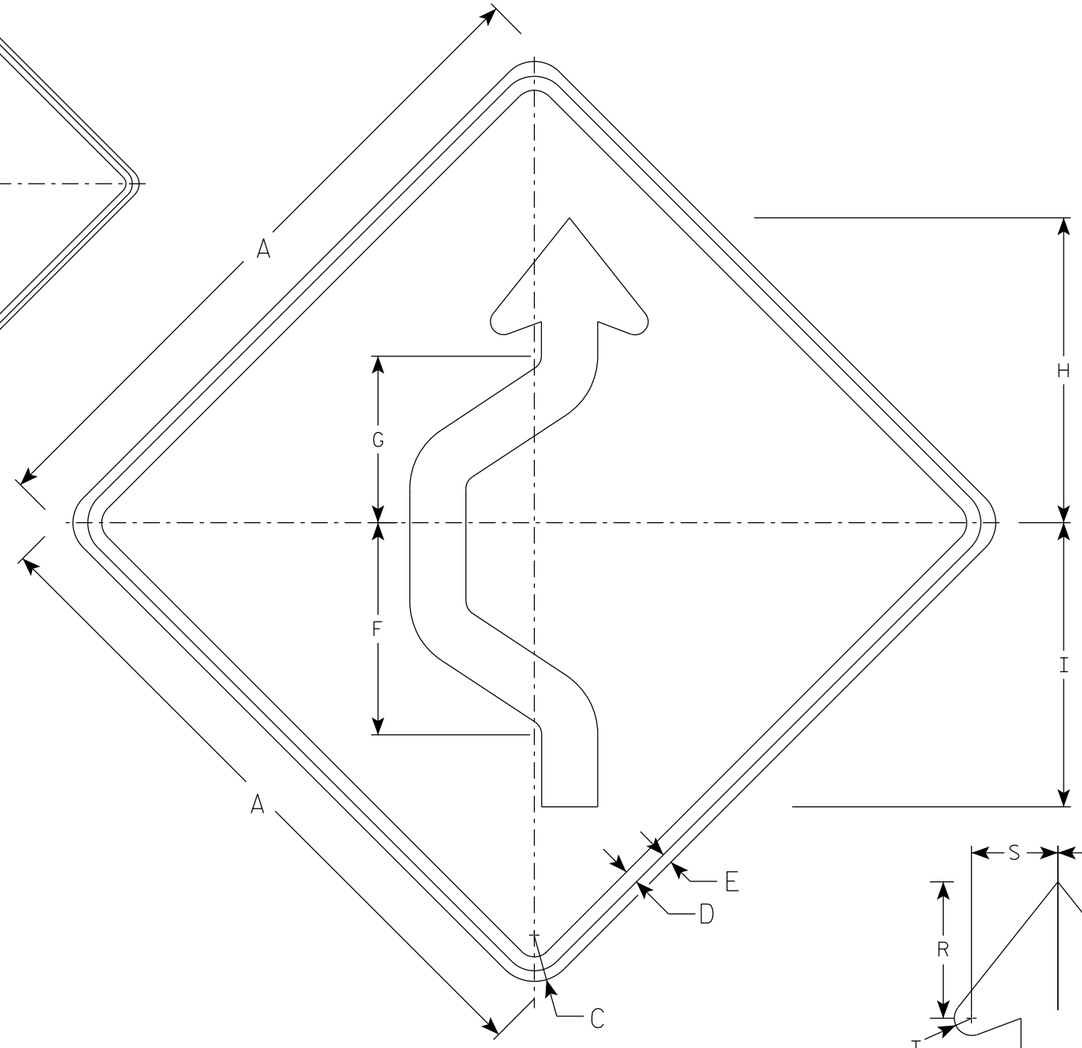
DATE 2/1/2024 PLATE NO. W016-7.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 383 E

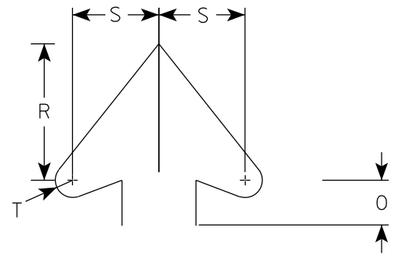
7



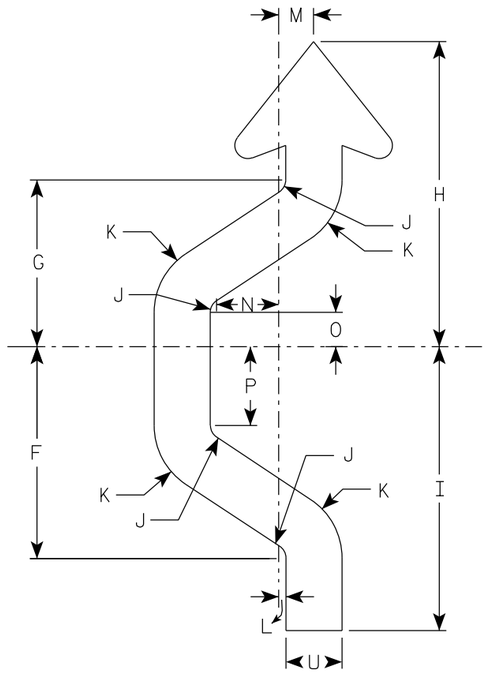
W024-1R



W024-1L



Arrowhead Detail



Arrow Detail

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W024-1R is the same as W024-1L except reversed along the vertical centerline.

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		2 1/4	5/8	1/2	11 3/8	8 7/8	16 3/8	15 1/4	3/4	3 3/4	3/8	2	3 3/8	1 7/8	4 1/4		5 1/2	3 1/2	5/8	3						9.0
2S	48		3	1	3/4	15 1/8	11 7/8	21 3/4	20 1/4	1	5	1/2	2 1/2	4 3/8	2 3/8	5 5/8		7 3/8	4 3/4	7/8	4						16.0
2M	48		3	1	3/4	15 1/8	11 7/8	21 3/4	20 1/4	1	5	1/2	2 1/2	4 3/8	2 3/8	5 5/8		7 3/8	4 3/4	7/8	4						16.0
3	48		3	1	3/4	15 1/8	11 7/8	21 3/4	20 1/4	1	5	1/2	2 1/2	4 3/8	2 3/8	5 5/8		7 3/8	4 3/4	7/8	4						16.0
4	48		3	1	3/4	15 1/8	11 7/8	21 3/4	20 1/4	1	5	1/2	2 1/2	4 3/8	2 3/8	5 5/8		7 3/8	4 3/4	7/8	4						16.0
5	48		3	1	3/4	15 1/8	11 7/8	21 3/4	20 1/4	1	5	1/2	2 1/2	4 3/8	2 3/8	5 5/8		7 3/8	4 3/4	7/8	4						16.0

STANDARD SIGN
W024-1 L & R

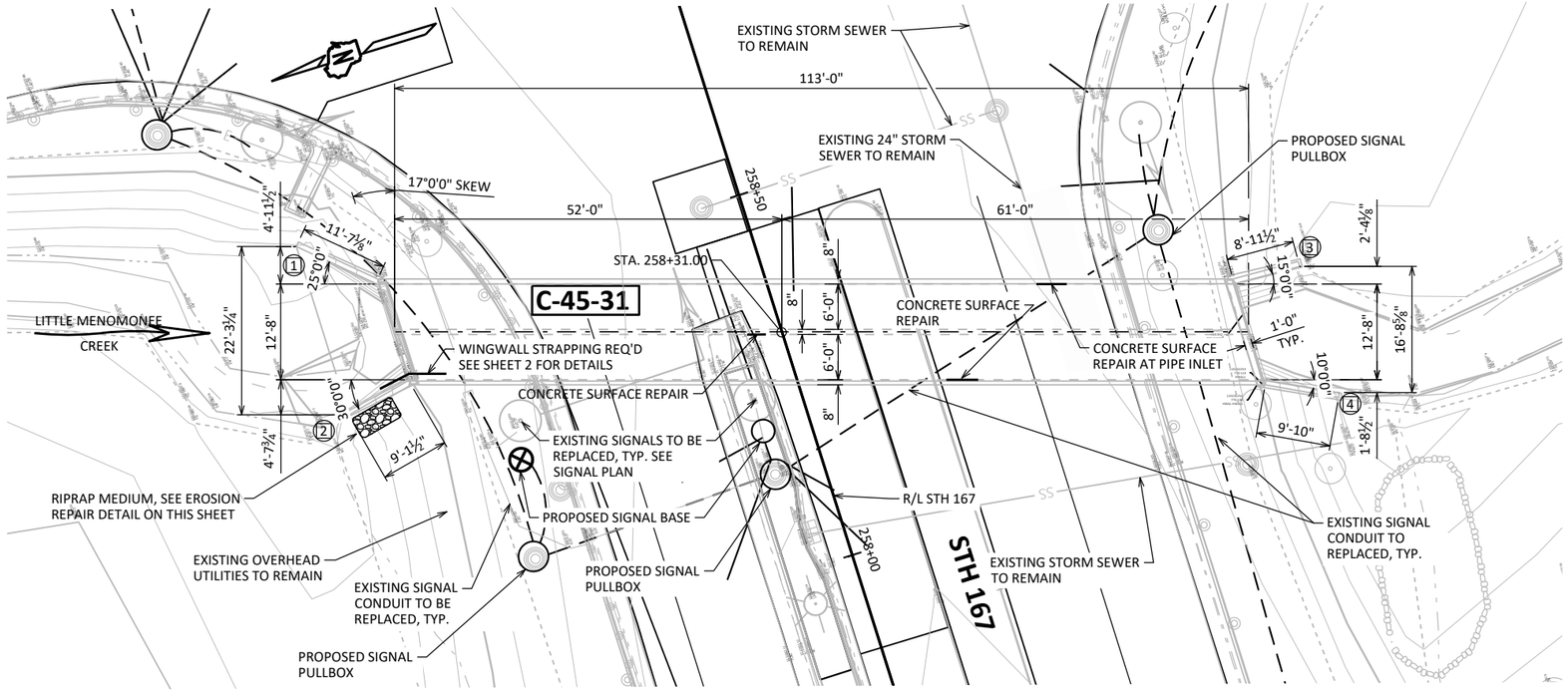
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/1/2024 PLATE NO. W024-1.2

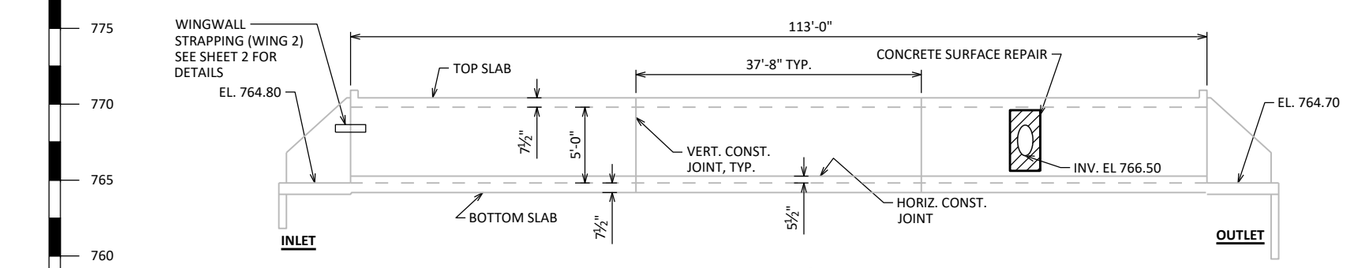
PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W0241.dgn PLOT DATE : 1-FEB 2024 10:32 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

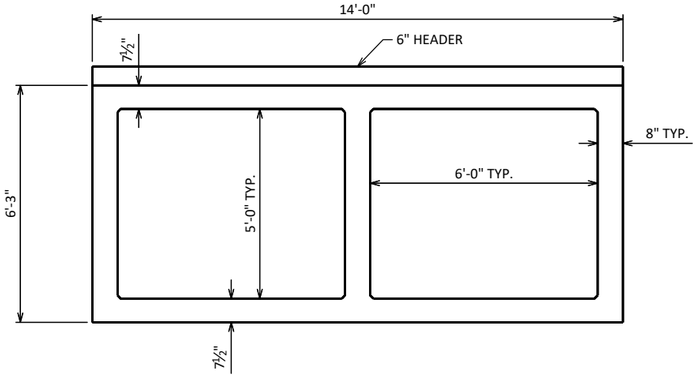


PLAN

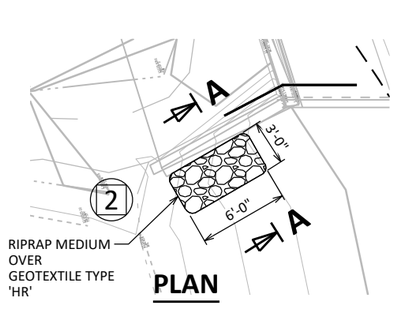
2-CELL REINFORCED CONCRETE BOX CULVERT



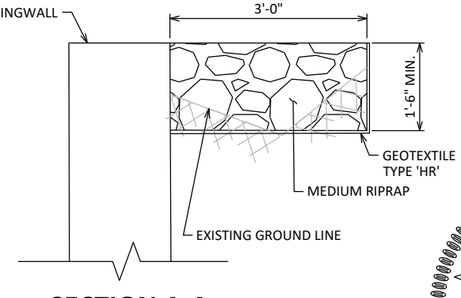
ELEVATION



TYPICAL SECTION THRU BOX



PLAN



SECTION A-A

EROSION REPAIR DETAIL

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

LOCATION OF THE FOLLOWING ITEMS SHOWN ON THE PLANS. QUANTITY IS APPROXIMATE. LIMITS SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER.
- CONCRETE SURFACE REPAIR
- RIPRAP MEDIUM
- GEOTEXTILE TYPE 'HR'

TRAFFIC DATA

FEATURE ON: STH 167
ADT = 14,100 (2043)
R.D.S. = 50 MPH

DESIGN DATA

LIVE LOAD:

ORIGINAL STRUCTURE DESIGN LOADING: HS-20
INVENTORY RATING: HS-20
OPERATING RATING: HS-30
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 250 KIPS

(RATINGS TAKEN FROM HSIS, 10/24/2023)

EARTH LOAD:

ORIGINAL STRUCTURE WAS DESIGNED FOR 2.0 FEET OF FILL

MATERIAL PROPERTIES:

CONCRETE MASONRY:
CONCRETE SURFACE REPAIR ——— f'_c = 3,500 PSI

STRUCTURAL STEEL:
ASTM A36 ——— f_y = 36,000 PSI

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
203.0335	DEBRIS CONTAINMENT OVER WATERWAYS C-45-31	EACH	1
509.1500	CONCRETE SURFACE REPAIR	SF	19
606.0200	RIPRAP MEDIUM	CY	1
645.0120	GEOTEXTILE TYPE HR	SY	2
SPV.0060.01	STRAPPING C-45-31	EACH	1

ALL ITEMS ARE CATEGORY 0100

LIST OF DRAWINGS

1 GENERAL PLAN
2 WING STRAPPING & REPAIR DETAILS

LEGEND

(X) INDICATES WING NUMBER

STRUCTURE DESIGN CONTACTS

BRIDGE OFFICE:
AARON BONK (608) 261-0261
CONSULTANT:
SHANNON CONNOLLY (414) 751-7200

STATE PROJECT NUMBER
1380-02-70

NO.	DATE	REVISION	BY

kapur

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORATION

ACCEPTED SDR 11/12/24
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE C-45-31

STH 167 OVER LITTLE MENOMONEE CREEK

COUNTY	CITY
OZAUKEE	MEQUON

DESIGN SPEC.
REHABILITATION N/A

DESIGNED BY	DESIGNED CK'D	DRAWN BY	PLANS CK'D
SMC	MHZ	SMC	MHZ

WISCONSIN PROFESSIONAL ENGINEER
SHANNON CONNOLLY
E-44309-6
MILWAUKEE, WI
2024

GENERAL PLAN

SHEET 1 OF 2
385

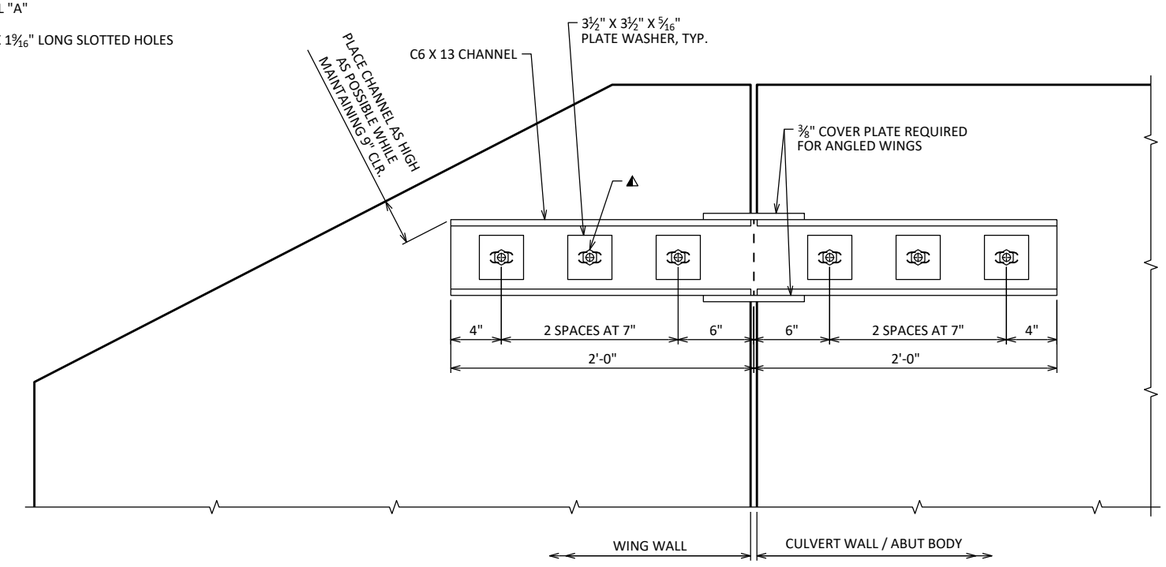
SCALE =
I.D.
DATE:

STATE PROJECT NUMBER

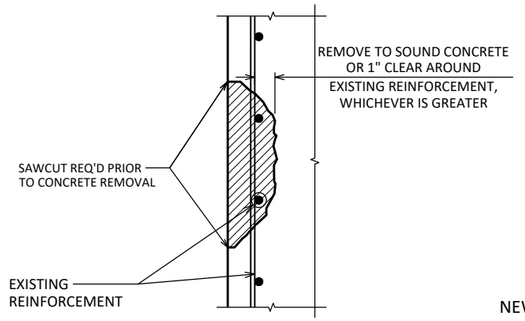
1380-02-70

▲ ADHESIVE ANCHORS ⅝ - INCH.
EMBED 5" IN CONCRETE.
SEE DETAIL "A"

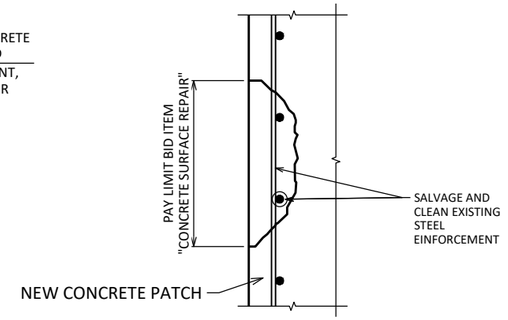
USE 1 1/16" X 1 3/16" LONG SLOTTED HOLES



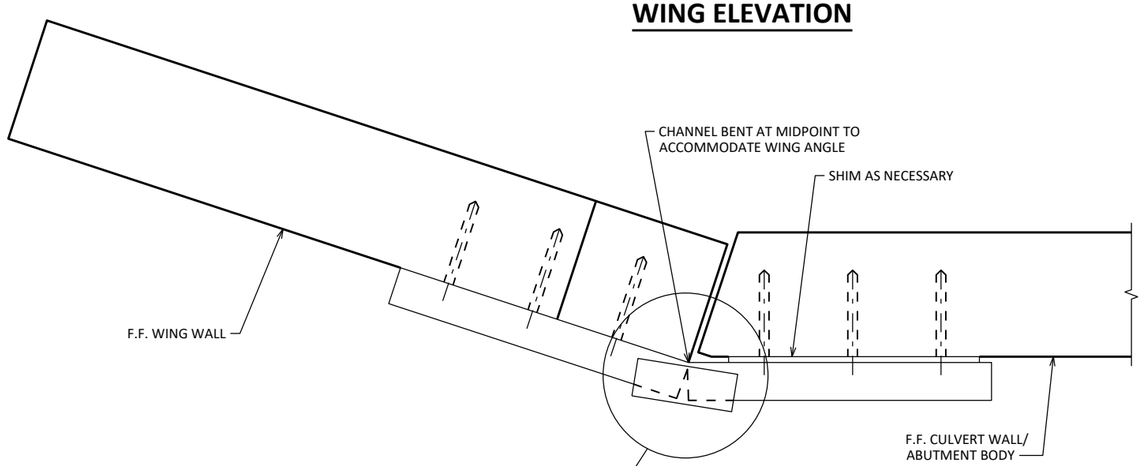
WING ELEVATION



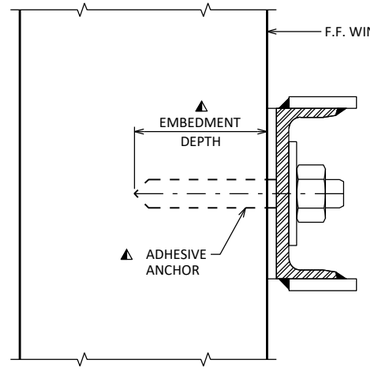
TYPICAL CONCRETE SURFACE REMOVAL DETAIL



TYPICAL CONCRETE SURFACE REPAIR DETAIL

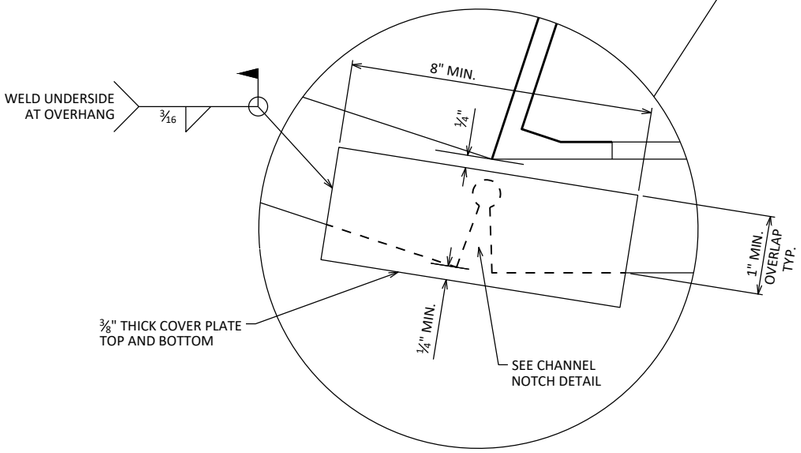


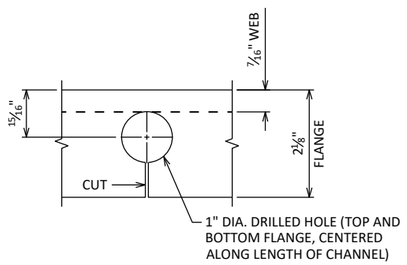
PLAN



DETAIL A

SECTION THRU CHANNEL





CHANNEL NOTCH DETAIL

FOR USE WITH ANGLED WINGS ONLY

NOTES

BID ITEM SHALL BE "STRAPPING C-45-31" WHICH INCLUDES ALL ITEMS SHOWN.

ALL PROVIDED STEEL MATERIAL SHALL CONFORM TO ASTM A36.

ALL STRUCTURAL STEEL SHOWN SHALL BE GALVANIZED. THREADED RODS, MASONRY ANCHORS, NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C.

CUTTING AND DRILLING OF CHANNEL SHALL BE DONE IN FABRICATION SHOP, PRIOR TO GALVANIZING.

IF WELDING COVER PLATE IN FIELD, PRIOR TO WELDING, REMOVE GALVANIZING FROM AREA TO BE WELDED. TOUCH UP WITH PAINT ALL AREAS LACKING GALVANIZING WHEN COMPLETE.

CAULK AROUND PERIMETER OF CHANNEL AND FILL PORTION OF HOLE AROUND ANCHOR BOLT AND SHIM WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

ADHESIVE ANCHORS SHALL CONFORM TO SECTION 502.2.12 OF THE STANDARD SPECIFICATIONS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-45-31

DRAWN BY SMC | PLANS CK'D MHZ

WING STRAPPING & REPAIR DETAILS

SHEET 2 OF 2

386

8

8

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 1.00	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
312+88.00	31288.00	0.00	13.45	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0
313+00.00	31300.00	12.00	11.48	0.00	0.00	0.00	6	0	0	0	6	0	0	0	6
313+50.00	31350.00	50.00	2.67	0.00	2.47	0.00	13	0	2	0	19	2	0	0	17
314+00.00	31400.00	50.00	6.65	0.00	0.00	0.00	9	0	2	0	28	4	0	0	24
314+50.00	31450.00	50.00	12.00	0.00	0.01	0.00	17	0	0	0	45	4	0	0	41
315+00.00	31500.00	50.00	27.60	0.00	0.57	0.00	37	0	1	0	82	5	0	0	77
315+50.00	31550.00	50.00	65.90	0.00	0.75	0.00	87	0	1	0	169	6	0	0	163
316+00.00	31600.00	50.00	3.46	0.00	0.43	0.00	64	0	1	0	233	7	0	0	226
316+50.00	31650.00	50.00	4.85	0.00	0.57	0.00	8	0	1	0	241	8	0	0	233
317+00.00	31700.00	50.00	5.12	0.00	0.47	0.00	9	0	1	0	250	9	0	0	241
317+50.00	31750.00	50.00	6.64	0.00	0.32	0.00	11	0	1	0	261	10	0	0	251
318+00.00	31800.00	50.00	9.35	0.00	0.00	0.00	15	0	0	0	276	10	0	0	266
318+50.00	31850.00	50.00	13.64	0.00	0.00	0.00	21	0	0	0	297	10	0	0	287
319+00.00	31900.00	50.00	14.01	0.00	0.00	0.00	26	0	0	0	323	10	0	0	313
319+50.00	31950.00	50.00	10.33	0.00	0.00	0.00	23	0	0	0	346	10	0	0	336
320+00.00	32000.00	50.00	3.07	0.00	0.36	0.00	12	0	0	0	358	10	0	0	348
320+50.00	32050.00	50.00	4.43	0.00	0.02	0.00	7	0	0	0	365	10	0	0	355
321+00.00	32100.00	50.00	3.37	0.00	0.19	0.00	7	0	0	0	372	10	0	0	362
321+50.00	32150.00	50.00	3.48	0.00	0.59	0.00	6	0	1	0	378	11	0	0	367
322+00.00	32200.00	50.00	3.64	0.00	0.14	0.00	7	0	1	0	385	12	0	0	373
322+50.00	32250.00	50.00	0.21	0.00	4.43	0.00	4	0	4	0	389	16	0	0	373
323+00.00	32300.00	50.00	0.21	0.00	11.87	0.00	0	0	15	0	389	31	0	0	358
323+50.00	32350.00	50.00	0.36	0.00	8.24	0.00	1	0	19	0	390	50	0	0	340
324+00.00	32400.00	50.00	0.01	0.00	9.59	0.00	0	0	17	0	390	67	0	0	323
324+50.00	32450.00	50.00	2.00	0.00	2.15	0.00	2	0	11	0	392	78	0	0	314
325+00.00	32500.00	50.00	1.84	0.00	1.56	0.00	4	0	3	0	396	81	0	0	315
325+50.00	32550.00	50.00	0.18	0.00	5.73	0.00	2	0	7	0	398	88	0	0	310
326+00.00	32600.00	50.00	3.05	0.00	0.67	0.00	3	0	6	0	401	94	0	0	307
326+50.00	32650.00	50.00	4.18	0.00	0.00	0.00	7	0	1	0	408	95	0	0	313
327+00.00	32700.00	50.00	7.02	0.00	0.00	0.00	10	0	0	0	418	95	0	0	323
327+50.00	32750.00	50.00	10.69	0.00	0.00	0.00	16	0	0	0	434	95	0	0	339
328+00.00	32800.00	50.00	10.57	0.00	0.00	0.00	20	0	0	0	454	95	0	0	359
328+50.00	32850.00	50.00	6.48	0.00	0.00	0.00	16	0	0	0	470	95	0	0	375
329+00.00	32900.00	50.00	5.18	0.00	0.00	0.00	11	0	0	0	481	95	0	0	386
329+50.00	32950.00	50.00	12.14	0.00	0.05	0.00	16	0	0	0	497	95	0	0	402
330+00.00	33000.00	50.00	9.20	0.00	0.00	0.00	20	0	0	0	517	95	0	0	422
330+50.00	33050.00	50.00	4.97	0.00	0.01	0.00	13	0	0	0	530	95	0	0	435
331+00.00	33100.00	50.00	3.04	0.00	0.60	0.00	7	0	1	0	537	96	0	0	441
331+50.00	33150.00	50.00	18.42	0.00	0.00	0.00	20	0	1	0	557	97	0	0	460
332+00.00	33200.00	50.00	4.15	0.00	0.00	0.00	21	0	0	0	578	97	0	0	481
332+50.00	33250.00	50.00	2.88	0.00	0.36	0.00	7	0	0	0	585	97	0	0	488
333+00.00	33300.00	50.00	4.20	0.00	1.42	0.00	7	0	2	0	592	99	0	0	493
333+50.00	33350.00	50.00	4.72	0.00	0.32	0.00	8	0	2	0	600	101	0	0	499
334+00.00	33400.00	50.00	2.74	0.00	0.84	0.00	7	0	1	0	607	102	0	0	505
334+50.00	33450.00	50.00	3.09	0.00	0.82	0.00	5	0	2	0	612	104	0	0	508
334+96.00	33496.00	46.00	3.26	0.00	0.51	0.00	5	0	1	0	617	105	0	0	512

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
5 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)
7 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL
8 - MASS ORDINATE	CUT - SALVAGED PAVT - (FILL * FILL FACTOR)

9

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PROJECT NO: 1380-02-70 | HWY: STH 167 | COUNTY: OZAUKEE | EARTHWORK DATA | SHEET 387 | E

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 1.00	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
335+96.00	33596.00	0.00	11.23	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0
336+00.00	33600.00	4.00	9.46	0.00	0.00	0.00	2	0	0	0	2	0	0	0	2
336+50.00	33650.00	50.00	5.59	0.00	0.00	0.00	14	0	0	0	16	0	0	0	16
337+00.00	33700.00	50.00	6.06	0.00	0.00	0.00	11	0	0	0	27	0	0	0	27
337+50.00	33750.00	50.00	5.67	0.00	0.00	0.00	11	0	0	0	38	0	0	0	38
338+00.00	33800.00	50.00	3.67	0.00	0.09	0.00	9	0	0	0	47	0	0	0	47
338+50.00	33850.00	50.00	5.91	0.00	0.00	0.00	9	0	0	0	56	0	0	0	56
339+00.00	33900.00	50.00	6.81	0.00	0.00	0.00	12	0	0	0	68	0	0	0	68
339+50.00	33950.00	50.00	4.82	0.00	0.01	0.00	11	0	0	0	79	0	0	0	79
340+00.00	34000.00	50.00	5.45	0.00	0.01	0.00	10	0	0	0	89	0	0	0	89
340+50.00	34050.00	50.00	6.54	0.00	0.00	0.00	11	0	0	0	100	0	0	0	100
341+00.00	34100.00	50.00	6.20	0.00	0.01	0.00	12	0	0	0	112	0	0	0	112
341+50.00	34150.00	50.00	7.06	0.00	0.01	0.00	12	0	0	0	124	0	0	0	124
342+00.00	34200.00	50.00	5.65	0.00	0.00	0.00	12	0	0	0	136	0	0	0	136
342+50.00	34250.00	50.00	9.17	0.00	0.00	0.00	14	0	0	0	150	0	0	0	150
343+00.00	34300.00	50.00	6.18	0.00	0.00	0.00	14	0	0	0	164	0	0	0	164
343+50.00	34350.00	50.00	3.69	0.00	1.36	0.00	9	0	1	0	173	1	0	0	172
344+00.00	34400.00	50.00	3.66	0.00	1.16	0.00	7	0	2	0	180	3	0	0	177
344+50.00	34450.00	50.00	4.04	0.00	0.84	0.00	7	0	2	0	187	5	0	0	182
345+00.00	34500.00	50.00	3.58	0.00	0.49	0.00	7	0	1	0	194	6	0	0	188
345+50.00	34550.00	50.00	5.79	0.00	0.00	0.00	9	0	0	0	203	6	0	0	197
346+00.00	34600.00	50.00	14.72	0.00	0.00	0.00	19	0	0	0	222	6	0	0	216
346+50.00	34650.00	50.00	4.27	0.00	0.07	0.00	18	0	0	0	240	6	0	0	234
347+00.00	34700.00	50.00	7.50	0.00	0.00	0.00	11	0	0	0	251	6	0	0	245
347+50.00	34750.00	50.00	4.91	0.00	0.00	0.00	11	0	0	0	262	6	0	0	256
348+00.00	34800.00	50.00	3.30	0.00	0.41	0.00	8	0	0	0	270	6	0	0	264
348+50.00	34850.00	50.00	2.64	0.00	1.12	0.00	6	0	1	0	276	7	0	0	269
349+00.00	34900.00	50.00	4.92	0.00	0.01	0.00	7	0	1	0	283	8	0	0	275
349+50.00	34950.00	50.00	5.34	0.00	0.02	0.00	9	0	0	0	292	8	0	0	284
350+00.00	35000.00	50.00	5.33	0.00	0.00	0.00	10	0	0	0	302	8	0	0	294
350+50.00	35050.00	50.00	6.46	0.00	0.00	0.00	11	0	0	0	313	8	0	0	305
351+00.00	35100.00	50.00	7.70	0.00	0.00	0.00	13	0	0	0	326	8	0	0	318
351+50.00	35150.00	50.00	9.04	0.00	0.00	0.00	16	0	0	0	342	8	0	0	334
351+98.00	35198.00	48.00	17.26	0.00	0.00	0.00	23	0	0	0	365	8	0	0	357

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
5 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)
7 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL
8 - MASS ORDINATE	CUT - SALVAGED PAVT - (FILL * FILL FACTOR)

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PROJECT NO: 1380-02-70 | HWY: STH 167 | COUNTY: OZAUKEE | EARTHWORK DATA | SHEET 388 | E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\090101-EW.DWG
LAYOUT NAME - 02

PLOT DATE : 10/31/2024 12:52 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1" = 1'

WISDOT/CADDS SHEET 49

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 1.00	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
353+00.00	35300.00	0.00	5.86	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0
353+50.00	35350.00	50.00	4.15	0.00	0.05	0.00	9	0	0	0	9	0	0	0	9
354+00.00	35400.00	50.00	6.86	0.00	0.00	0.00	10	0	0	0	19	0	0	0	19
354+50.00	35450.00	50.00	11.07	0.00	0.00	0.00	17	0	0	0	36	0	0	0	36
355+00.00	35500.00	50.00	6.84	0.00	0.00	0.00	17	0	0	0	53	0	0	0	53
355+50.00	35550.00	50.00	9.55	0.00	0.00	0.00	15	0	0	0	68	0	0	0	68
356+00.00	35600.00	50.00	5.29	0.00	0.00	0.00	14	0	0	0	82	0	0	0	82
356+50.00	35650.00	50.00	7.89	0.00	0.00	0.00	12	0	0	0	94	0	0	0	94
357+00.00	35700.00	50.00	0.14	0.00	5.28	0.00	7	0	5	0	101	5	0	0	96
357+50.00	35750.00	50.00	1.10	0.00	6.82	0.00	1	0	11	0	102	16	0	0	86
358+00.00	35800.00	50.00	0.53	0.00	10.94	0.00	2	0	16	0	104	32	0	0	72
358+50.00	35850.00	50.00	0.87	0.00	15.03	0.00	1	0	24	0	105	56	0	0	49
358+77.00	35877.00	27.00	0.04	0.00	22.91	0.00	0	0	19	0	105	75	0	0	30

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
5 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)
7 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL
8 - MASS ORDINATE	CUT - SALVAGED PAVT - (FILL * FILL FACTOR)

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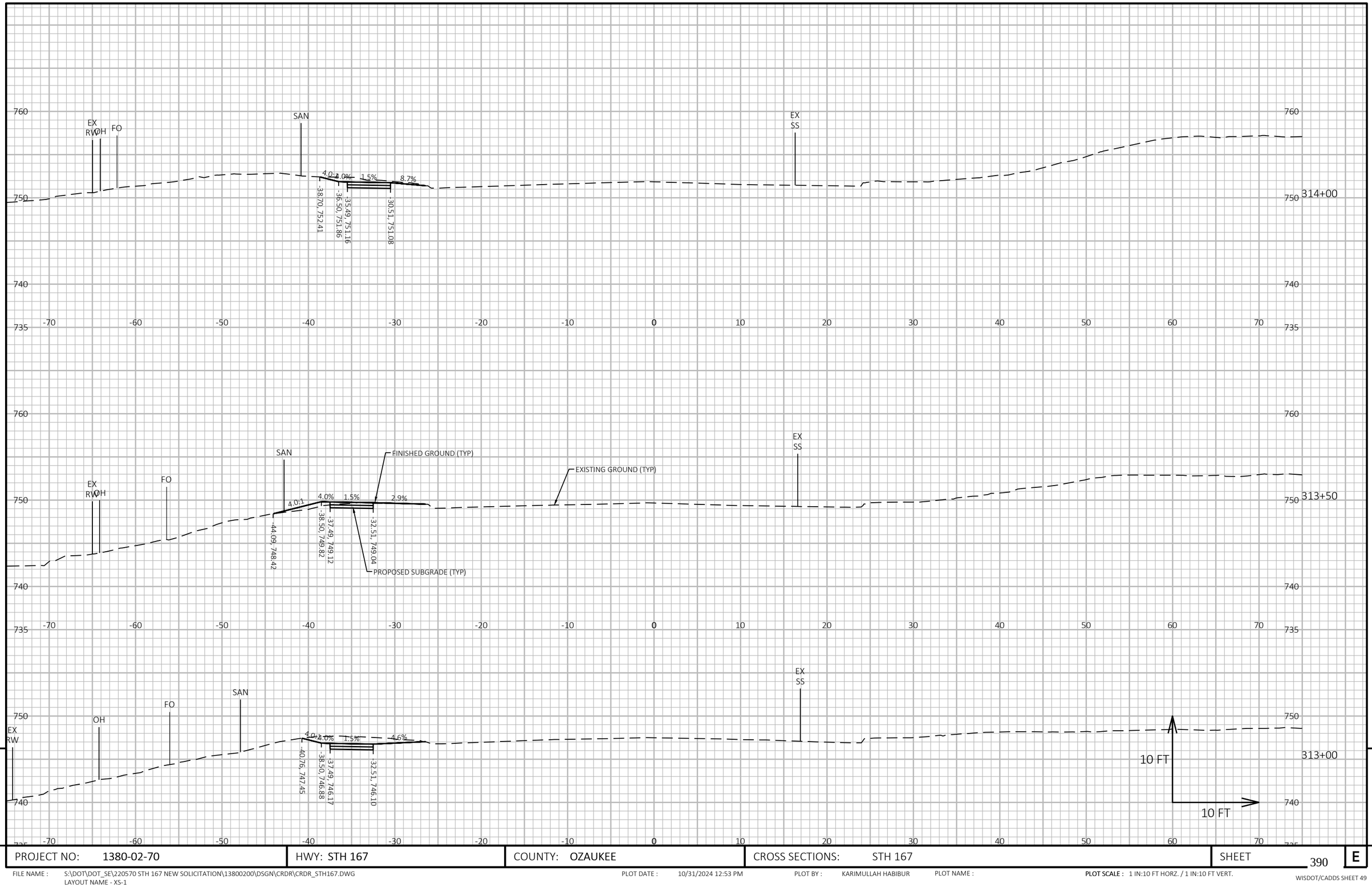
PROJECT NO: 1380-02-70 | HWY: STH 167 | COUNTY: OZAUKEE | EARTHWORK DATA | SHEET 389 | E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\SHEETS\090101-EW.DWG
LAYOUT NAME - 03

PLOT DATE : 10/31/2024 12:52 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1" = 1'

WISDOT/CADDS SHEET 49



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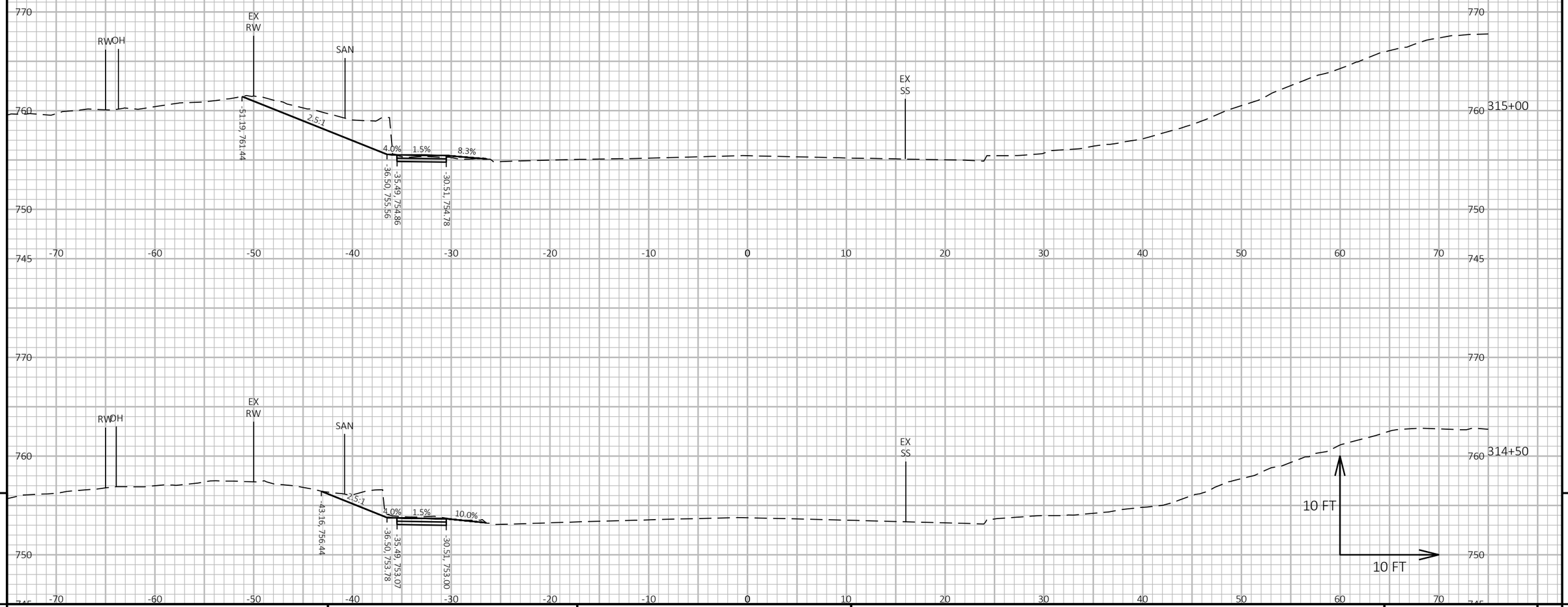
PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	CROSS SECTIONS: STH 167	SHEET 390	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\DSGN\CRDR\CRDR_STH167.DWG
LAYOUT NAME - XS-1

PLOT DATE : 10/31/2024 12:53 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



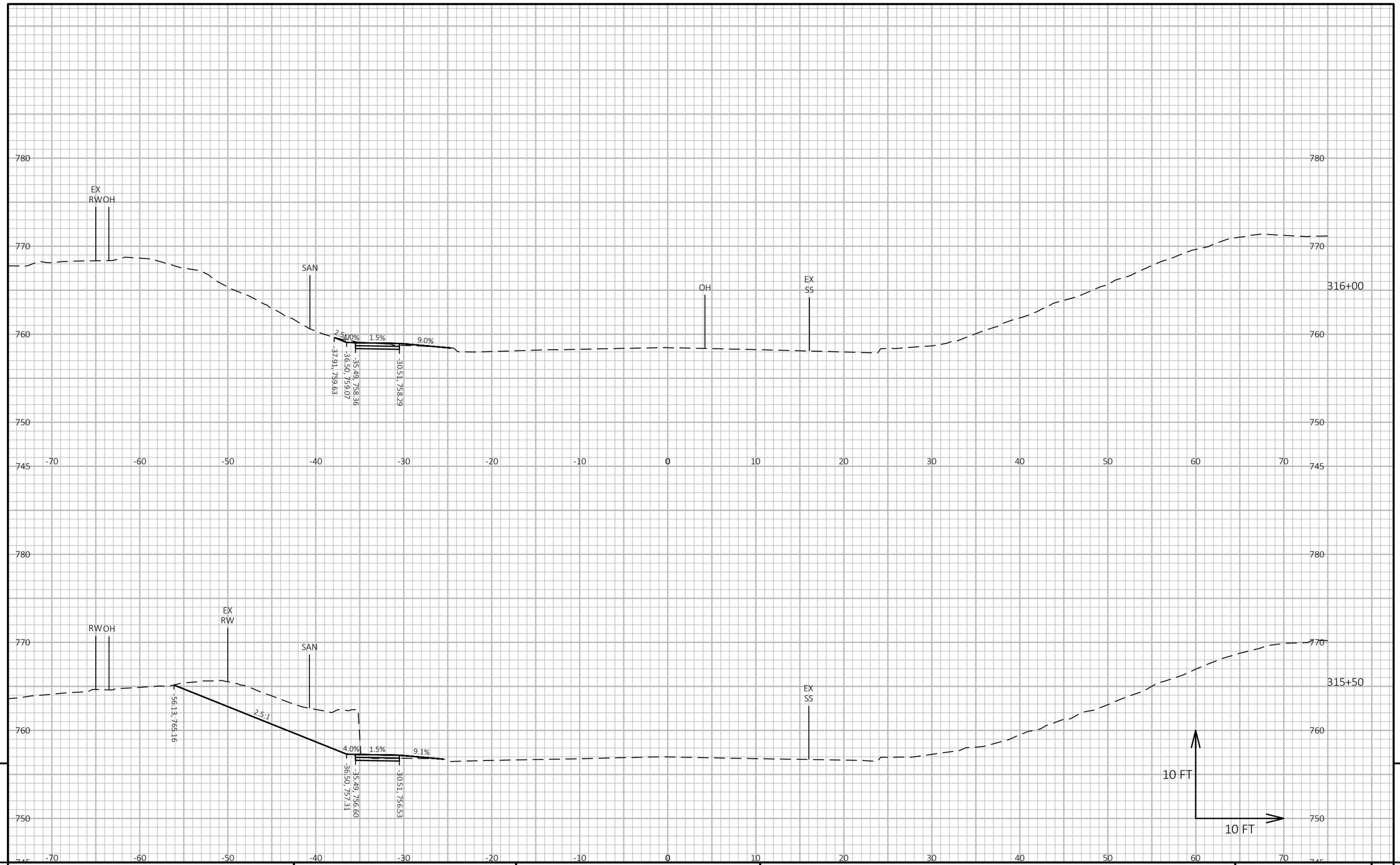
9 9

PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	CROSS SECTIONS: STH 167	SHEET 391	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\DSGN\CRDR\CRDR_STH167.DWG
LAYOUT NAME - XS-2

PLOT DATE : 10/31/2024 12:53 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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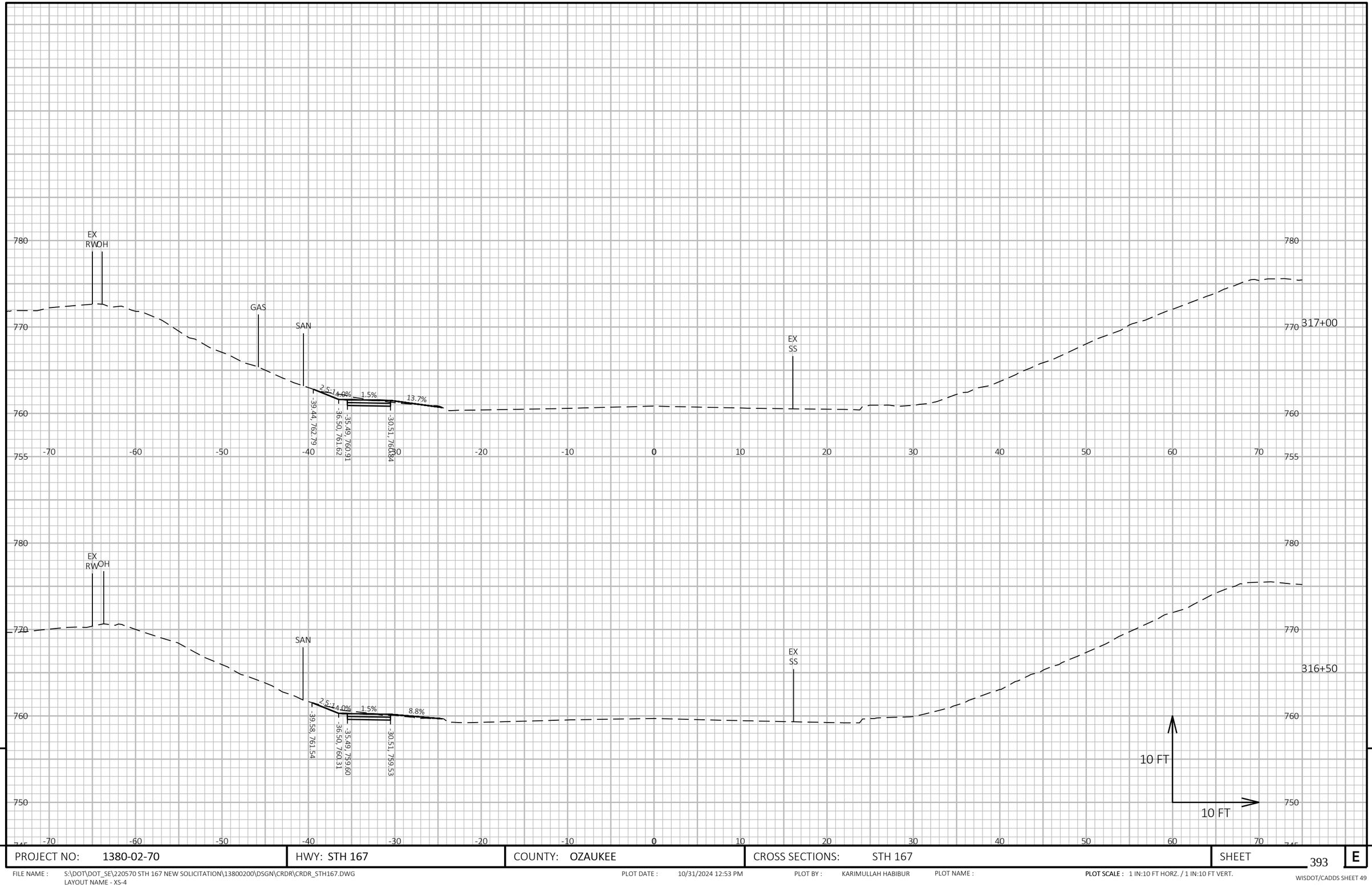
PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	CROSS SECTIONS: STH 167	SHEET 392	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\DSGN\CRDR\CRDR_STH167.DWG
LAYOUT NAME - XS-3

PLOT DATE : 10/31/2024 12:53 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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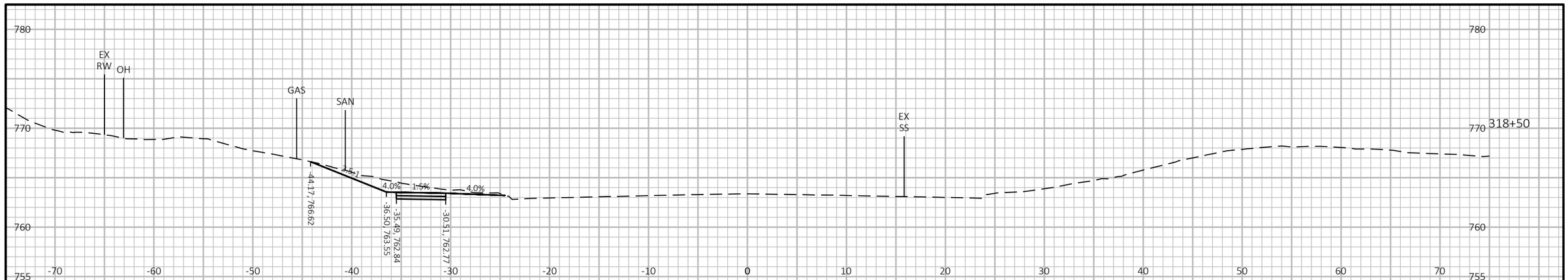
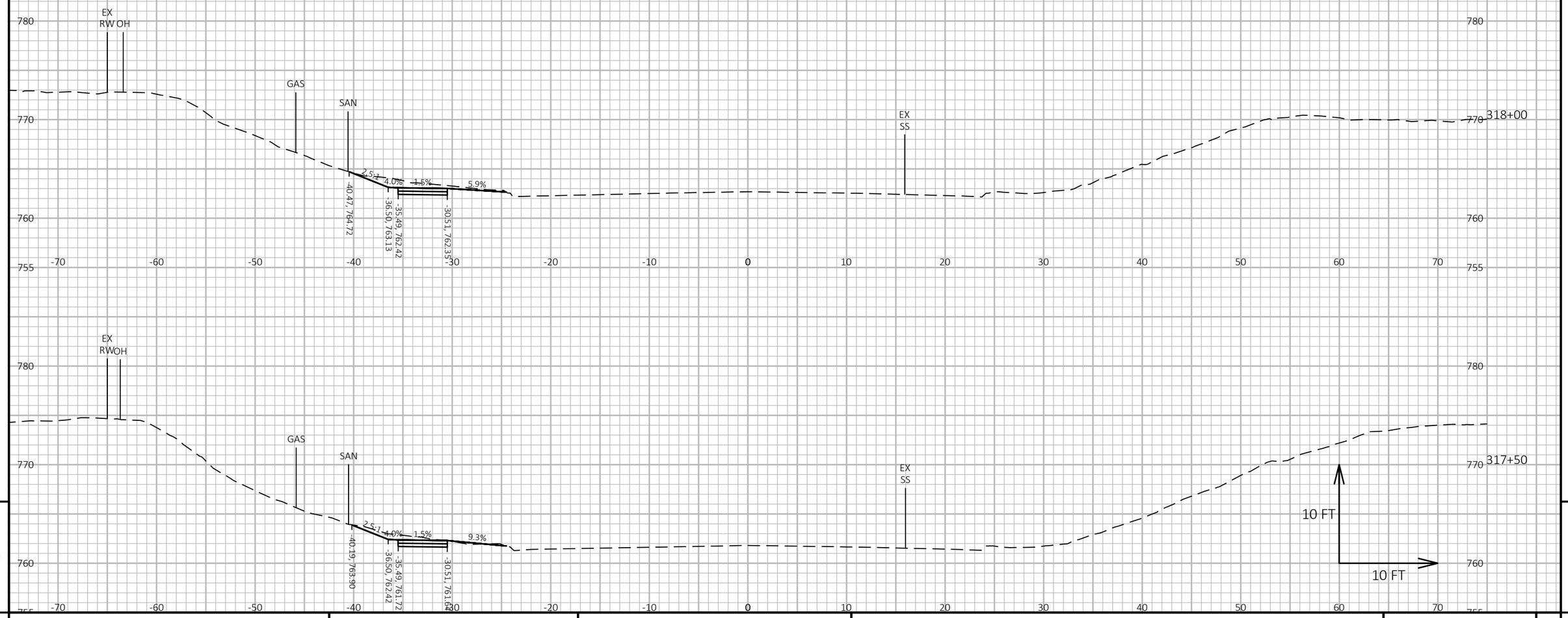
PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	CROSS SECTIONS: STH 167	SHEET 393	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\DSGN\CRDR\CRDR_STH167.DWG
LAYOUT NAME - XS-4

PLOT DATE : 10/31/2024 12:53 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





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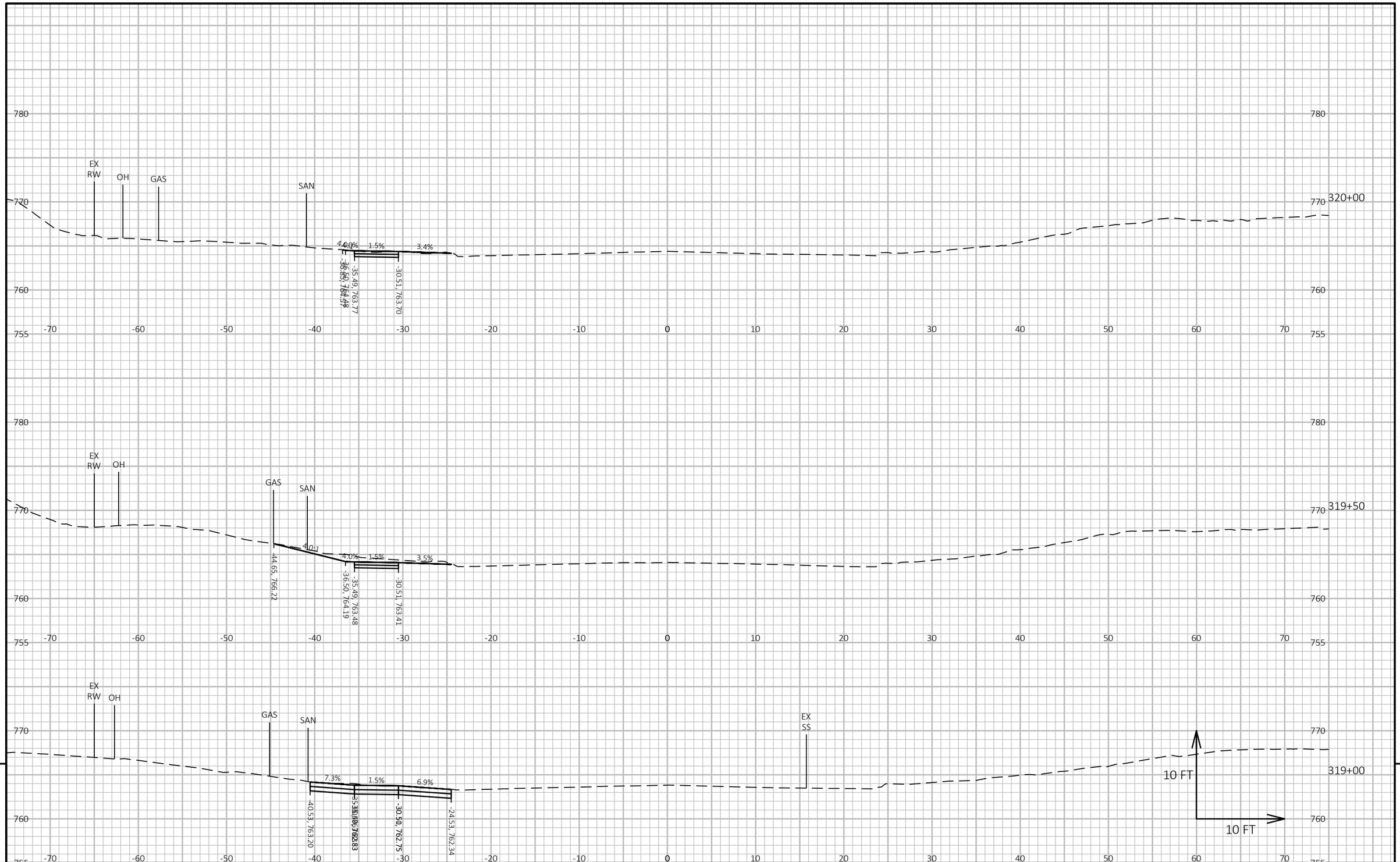
PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	CROSS SECTIONS: STH 167	SHEET 394	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\DSGN\CRDR\CRDR_STH167.DWG
LAYOUT NAME - XS-5

PLOT DATE : 10/31/2024 12:53 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

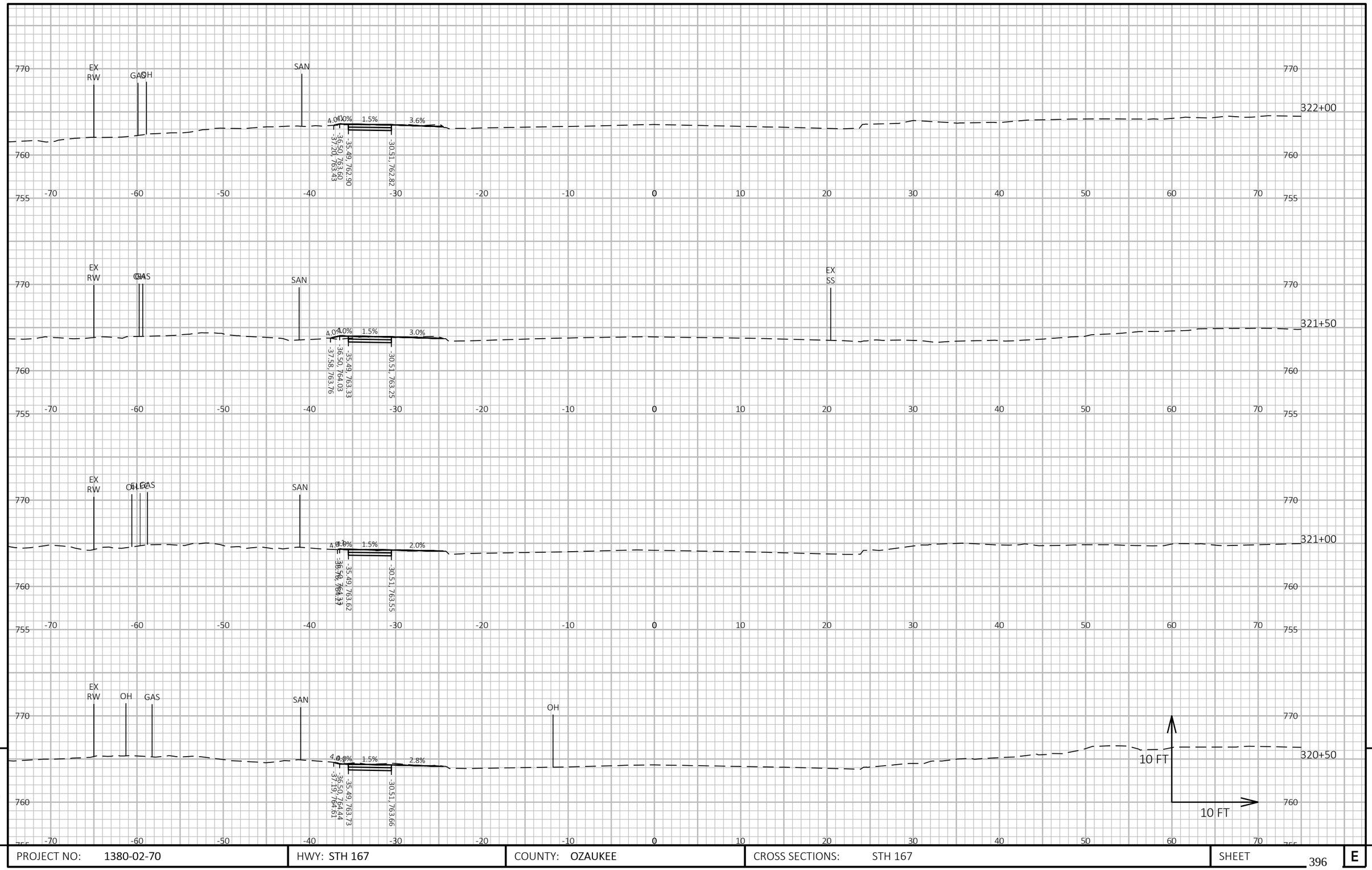


PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	CROSS SECTIONS: STH 167	SHEET 395	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\DSGN\CRDR\CRDR_STH167.DWG
LAYOUT NAME - XS-6

PLOT DATE : 10/31/2024 12:53 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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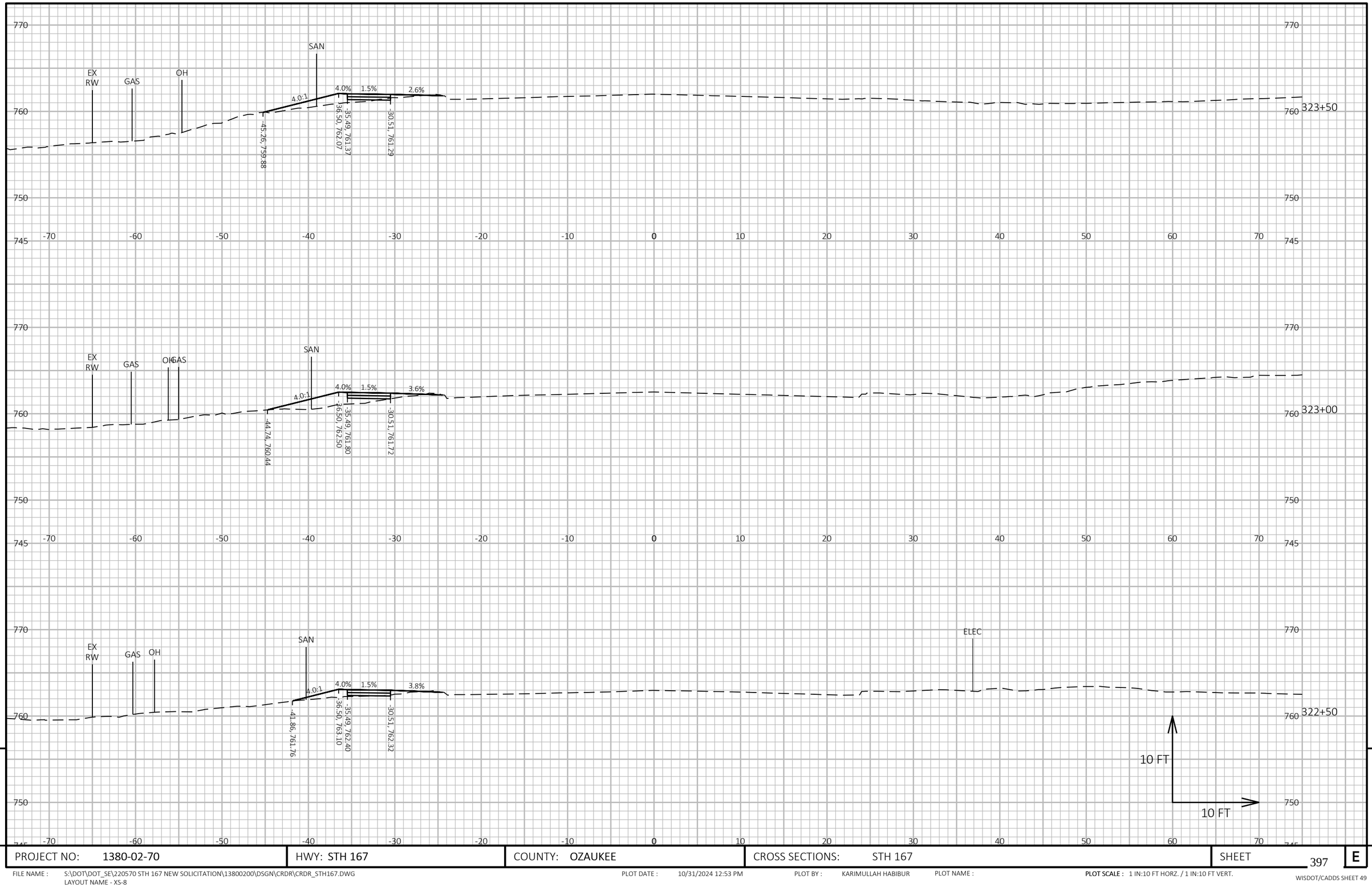
PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	CROSS SECTIONS: STH 167	SHEET 396	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\DSGN\CRDR\CRDR_STH167.DWG
LAYOUT NAME - XS-7

PLOT DATE : 10/31/2024 12:53 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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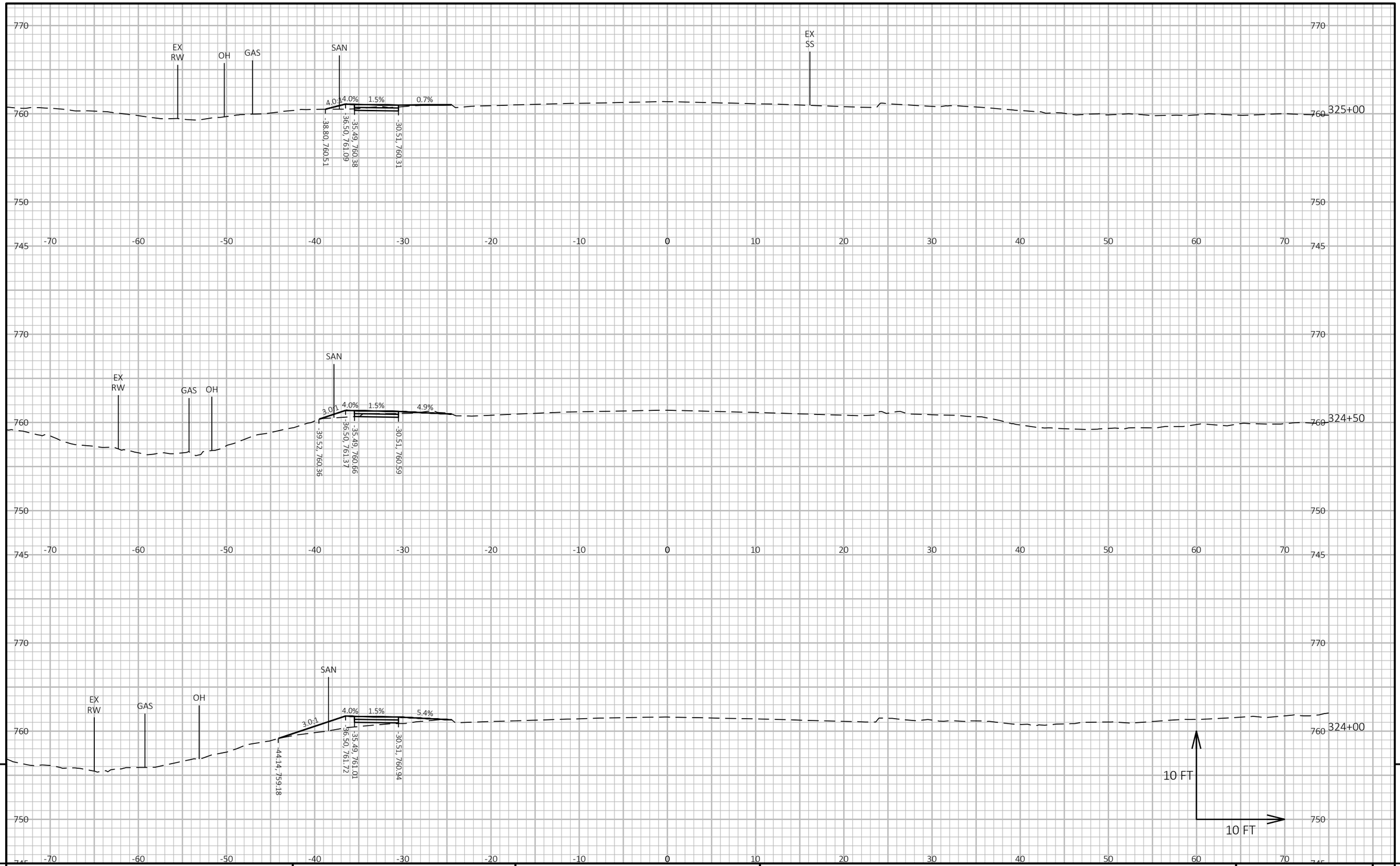
PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	CROSS SECTIONS: STH 167	SHEET 397	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\DSGN\CRDR\CRDR_STH167.DWG
LAYOUT NAME - XS-8

PLOT DATE : 10/31/2024 12:53 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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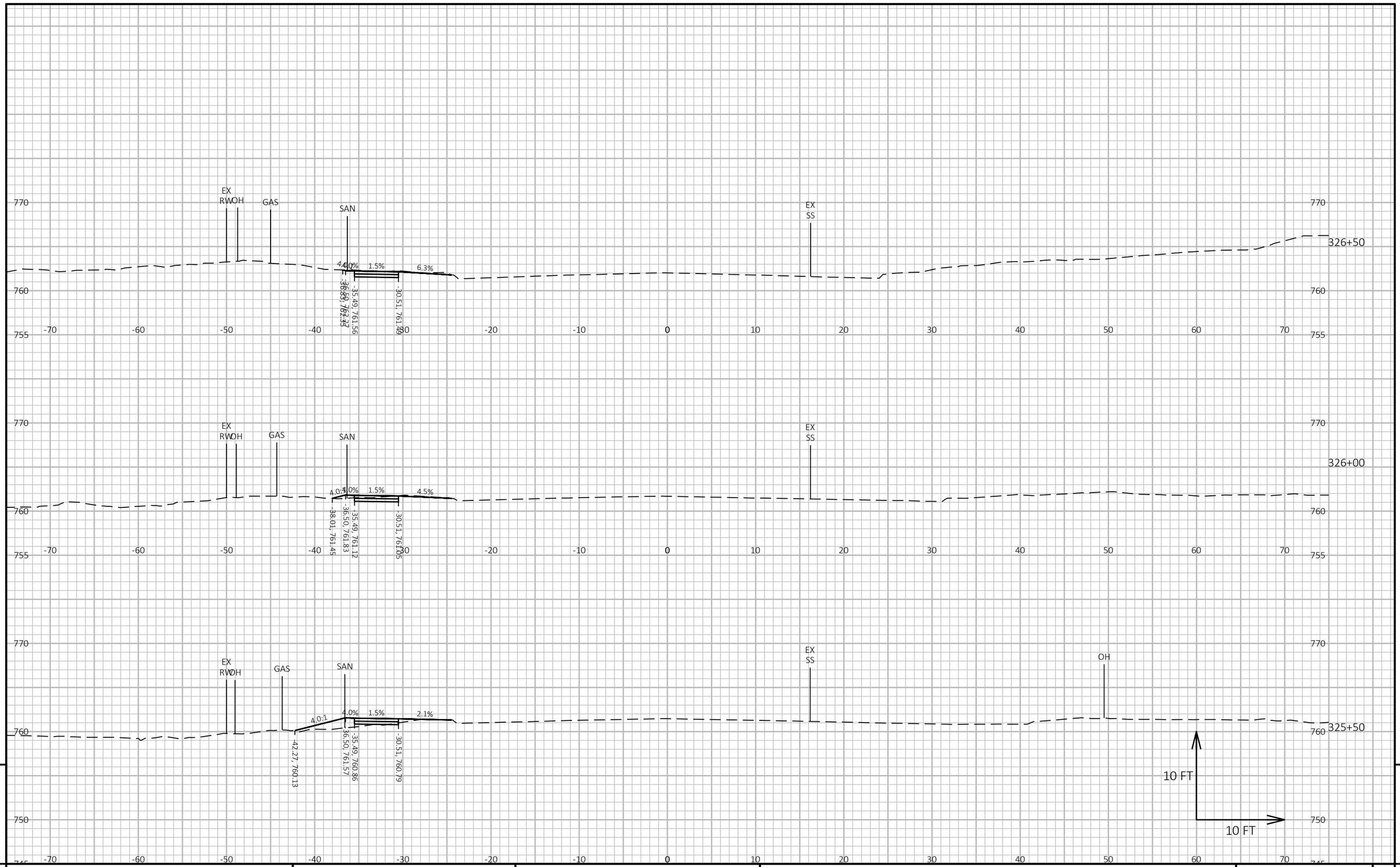
PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	CROSS SECTIONS: STH 167	SHEET 398	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\DSGN\CRDR\CRDR_STH167.DWG
LAYOUT NAME - XS-9

PLOT DATE : 10/31/2024 12:53 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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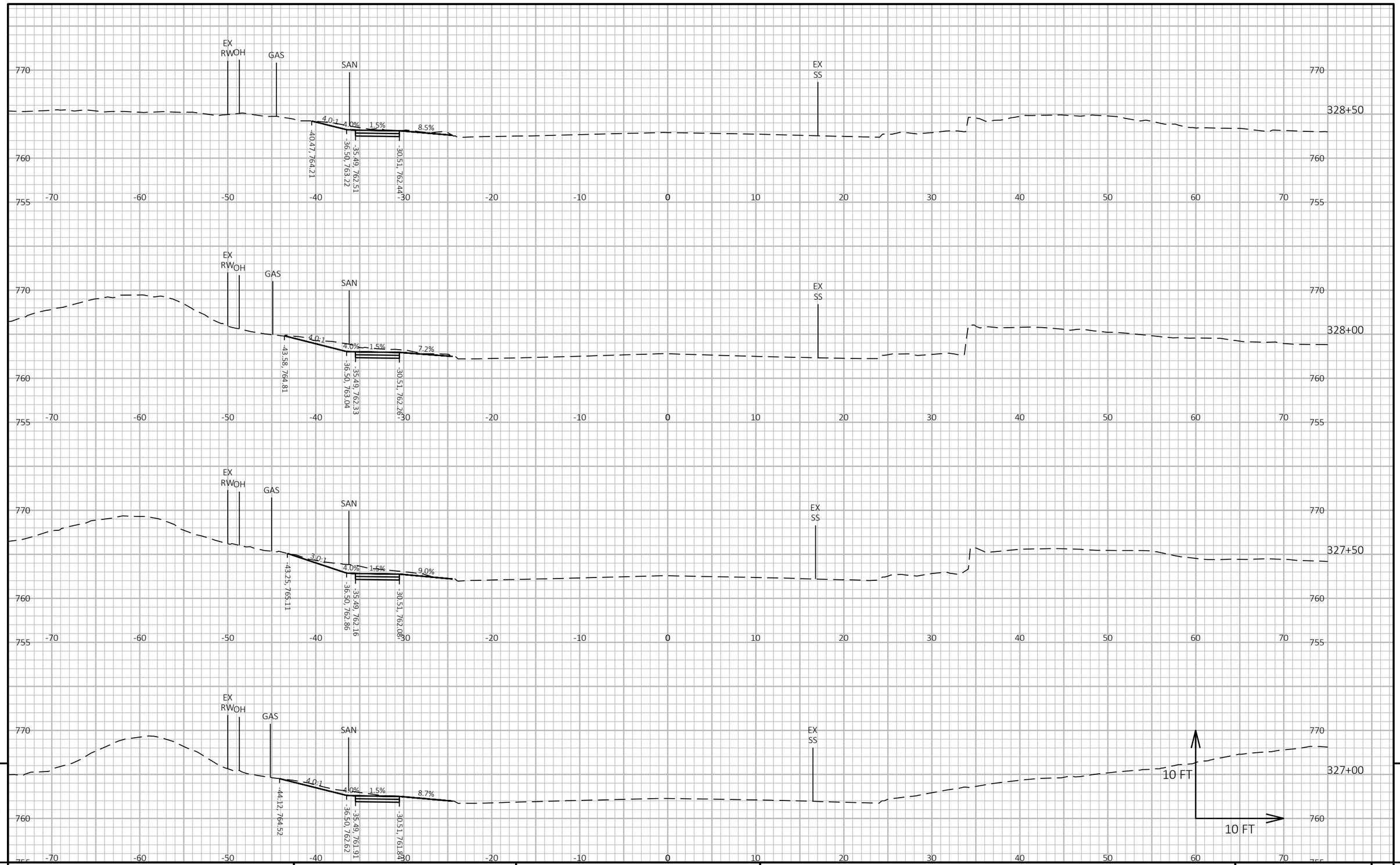
PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	CROSS SECTIONS: STH 167	SHEET 399	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\DSGN\CRDR\CRDR_STH167.DWG
LAYOUT NAME - XS-10

PLOT DATE : 10/31/2024 12:54 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

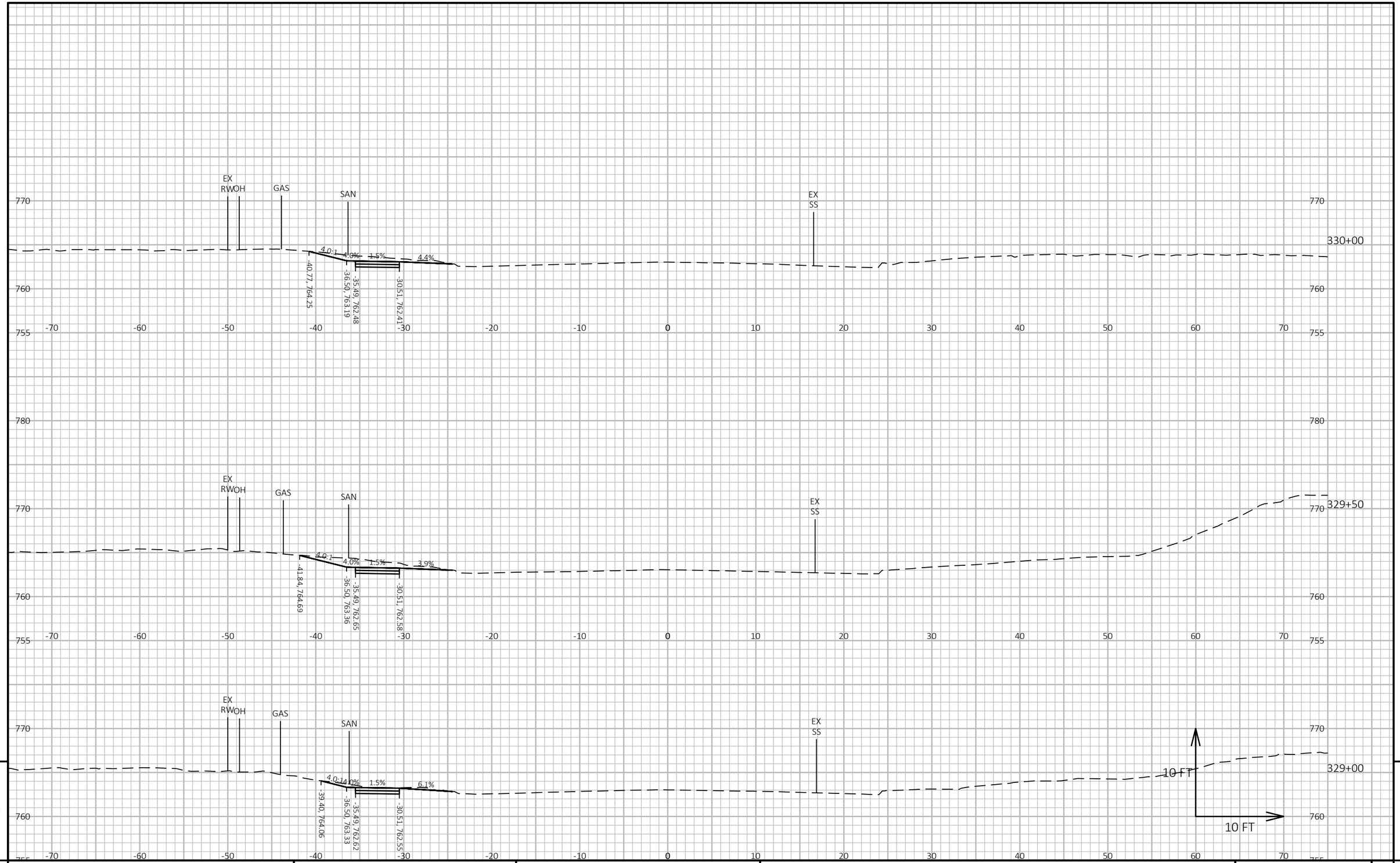


PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	CROSS SECTIONS: STH 167	SHEET 400	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\DSGN\CRDR\CRDR_STH167.DWG
LAYOUT NAME - XS-11

PLOT DATE : 10/31/2024 12:54 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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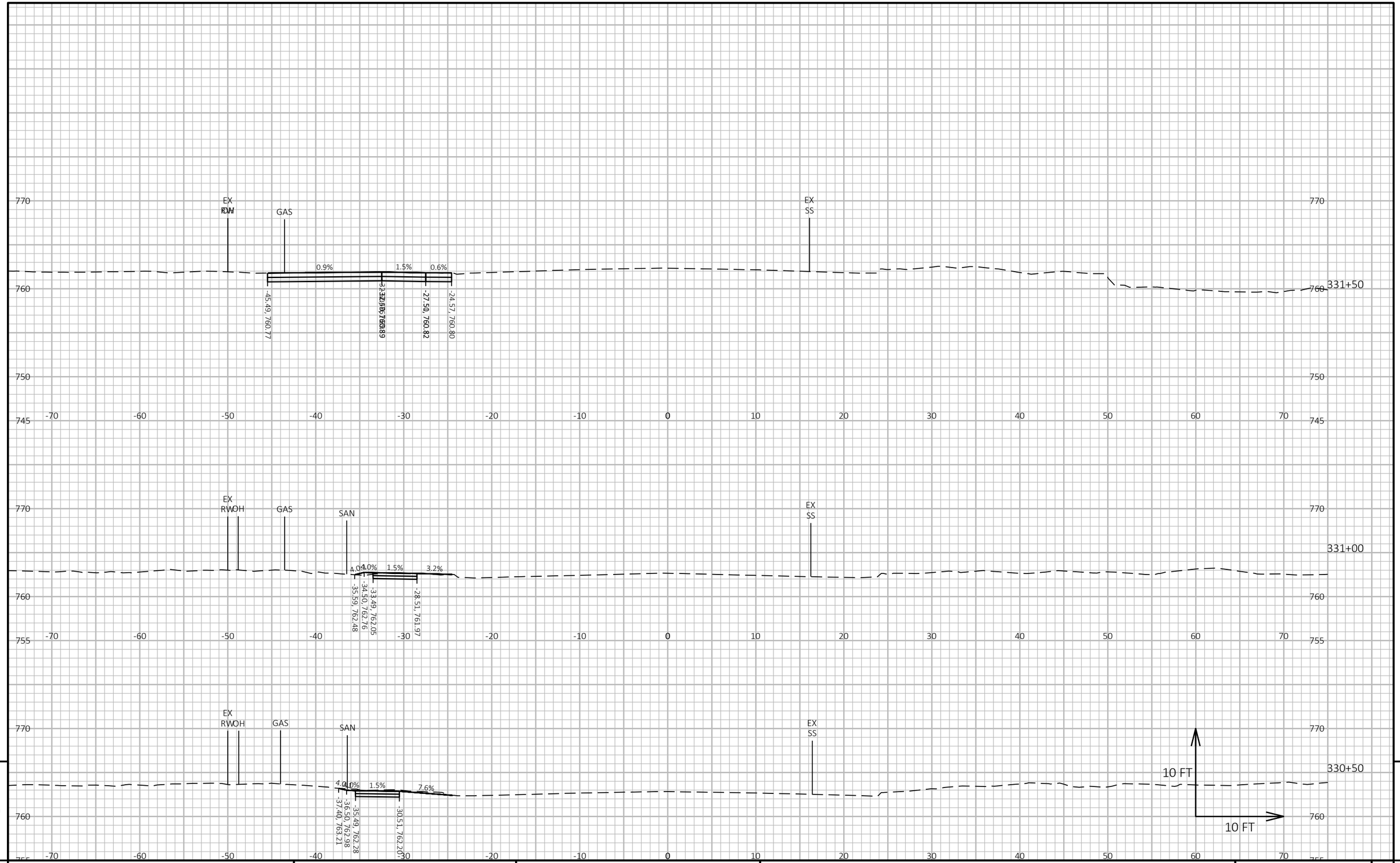
PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	CROSS SECTIONS: STH 167	SHEET 401	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\DSGN\CRDR\CRDR_STH167.DWG
LAYOUT NAME - XS-12

PLOT DATE : 10/31/2024 12:54 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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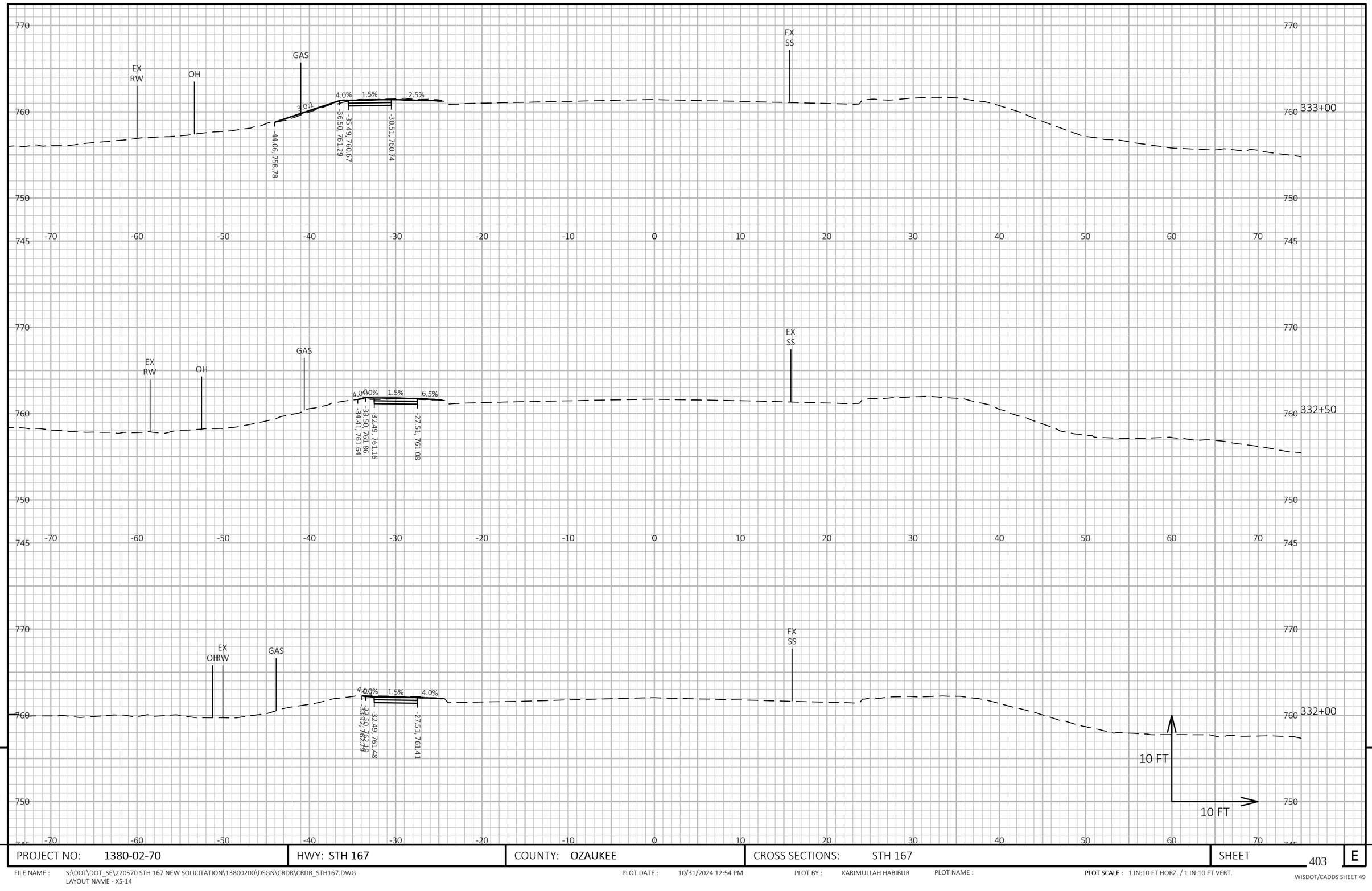
PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	CROSS SECTIONS: STH 167	SHEET 402	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\DSGN\CRDR\CRDR_STH167.DWG
LAYOUT NAME - XS-13

PLOT DATE : 10/31/2024 12:54 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

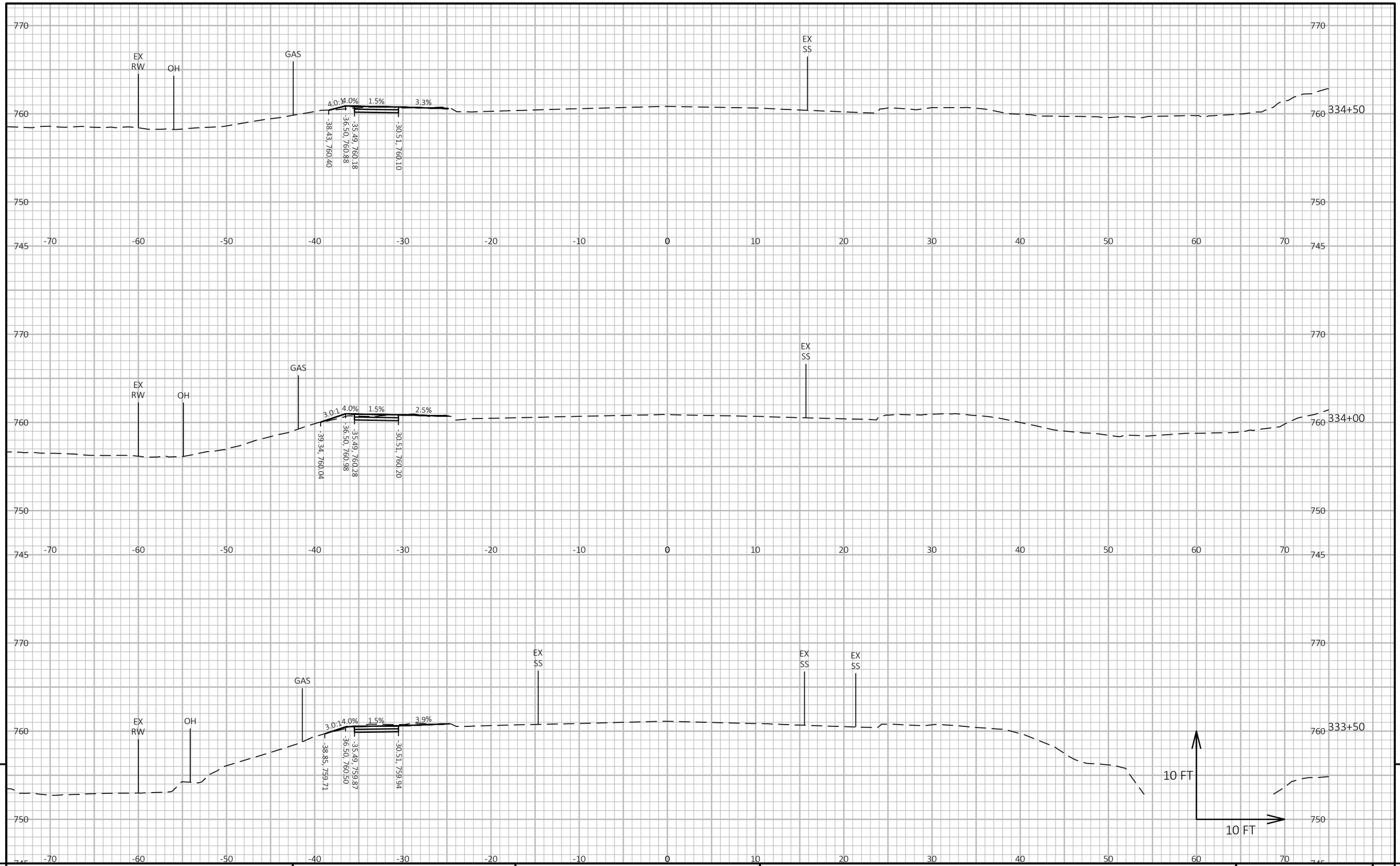


PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	CROSS SECTIONS: STH 167	SHEET 403 E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\DSGN\CRDR\CRDR_STH167.DWG
LAYOUT NAME - XS-14

PLOT DATE : 10/31/2024 12:54 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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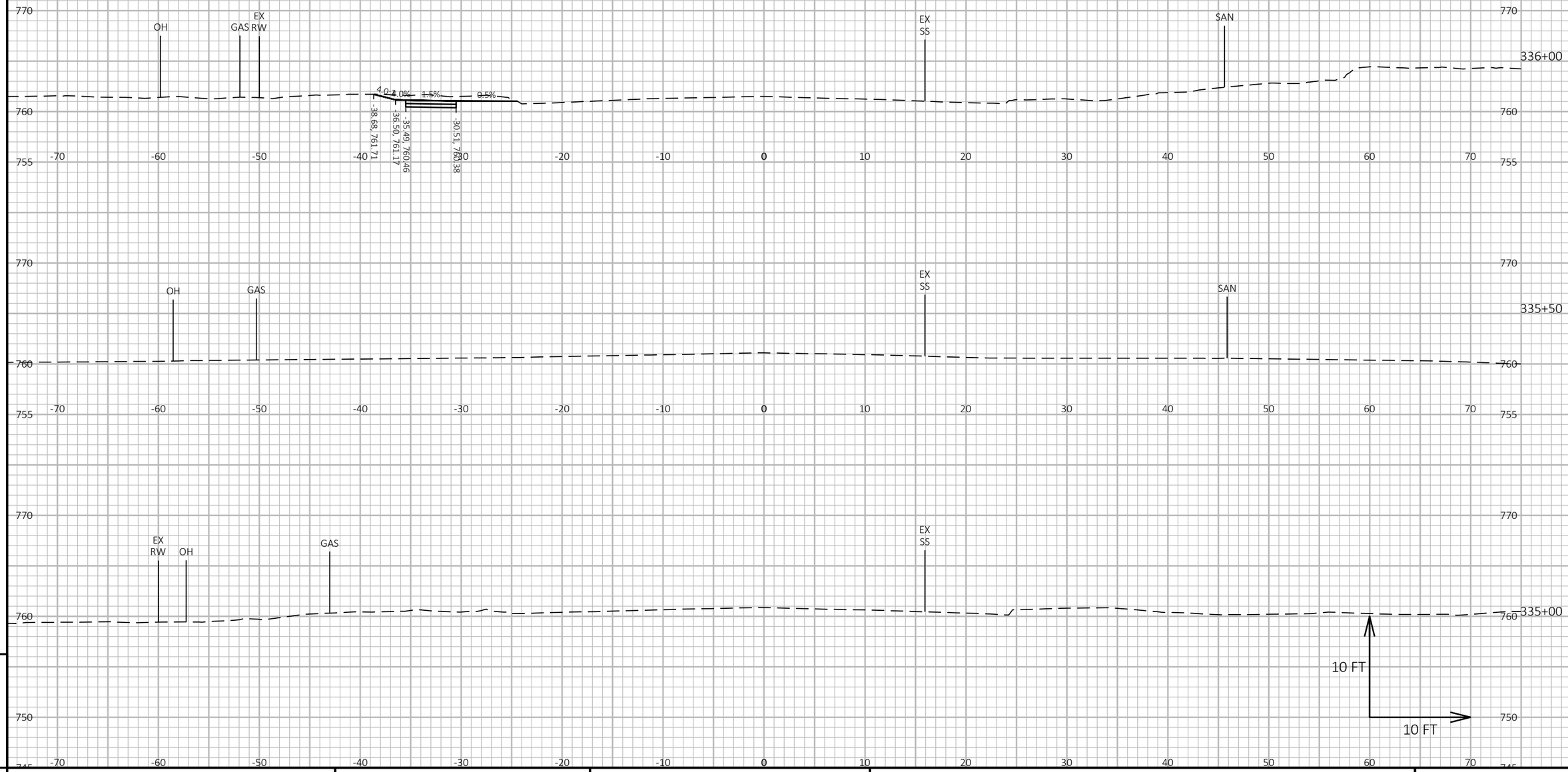
PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	CROSS SECTIONS: STH 167	SHEET 404	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\DSGN\CRDR\CRDR_STH167.DWG
LAYOUT NAME - XS-15

PLOT DATE : 10/31/2024 12:54 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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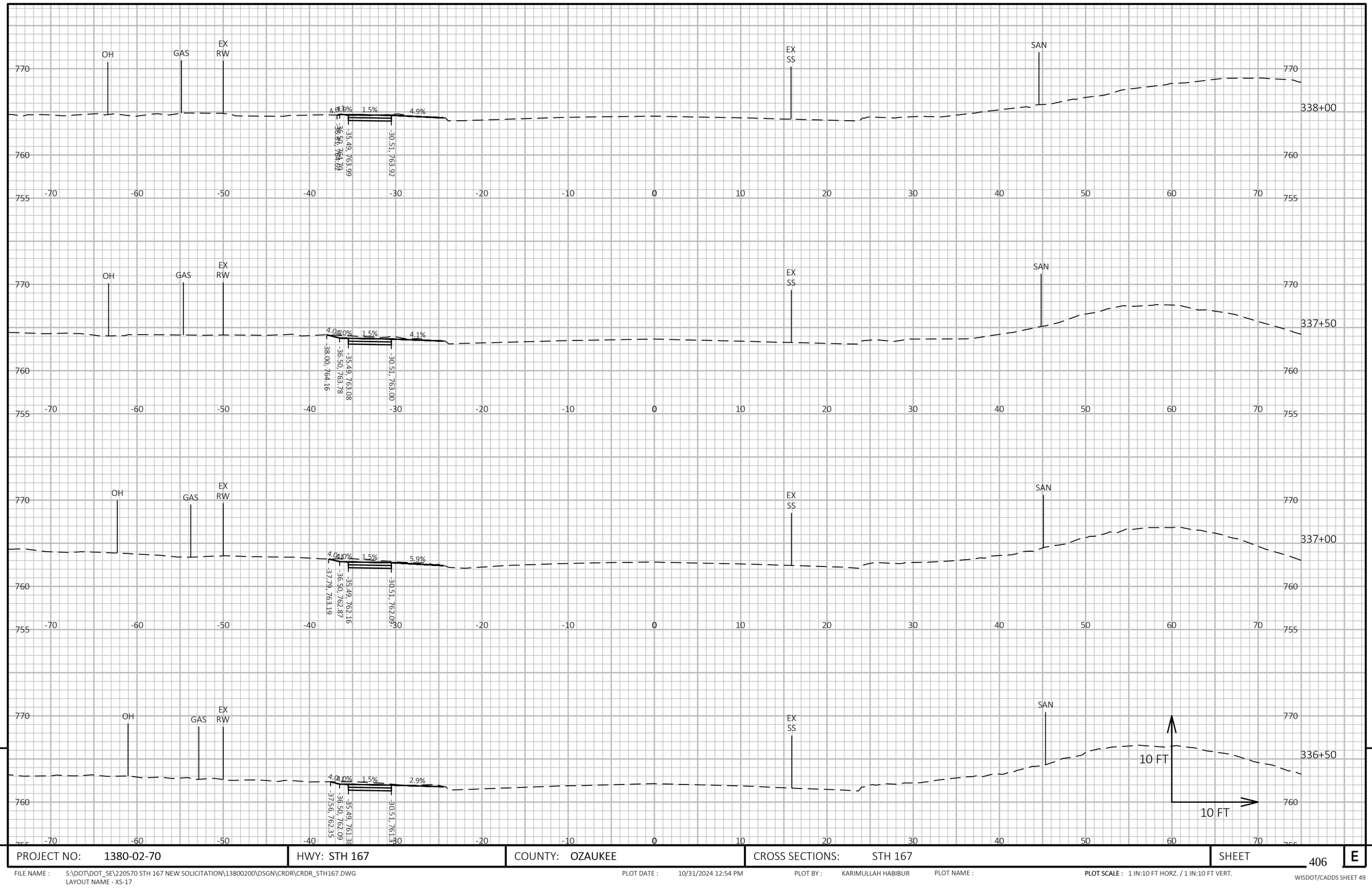
PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	CROSS SECTIONS: STH 167	SHEET 405	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\DSGN\CRDR\CRDR_STH167.DWG
LAYOUT NAME - XS-16

PLOT DATE : 10/31/2024 12:54 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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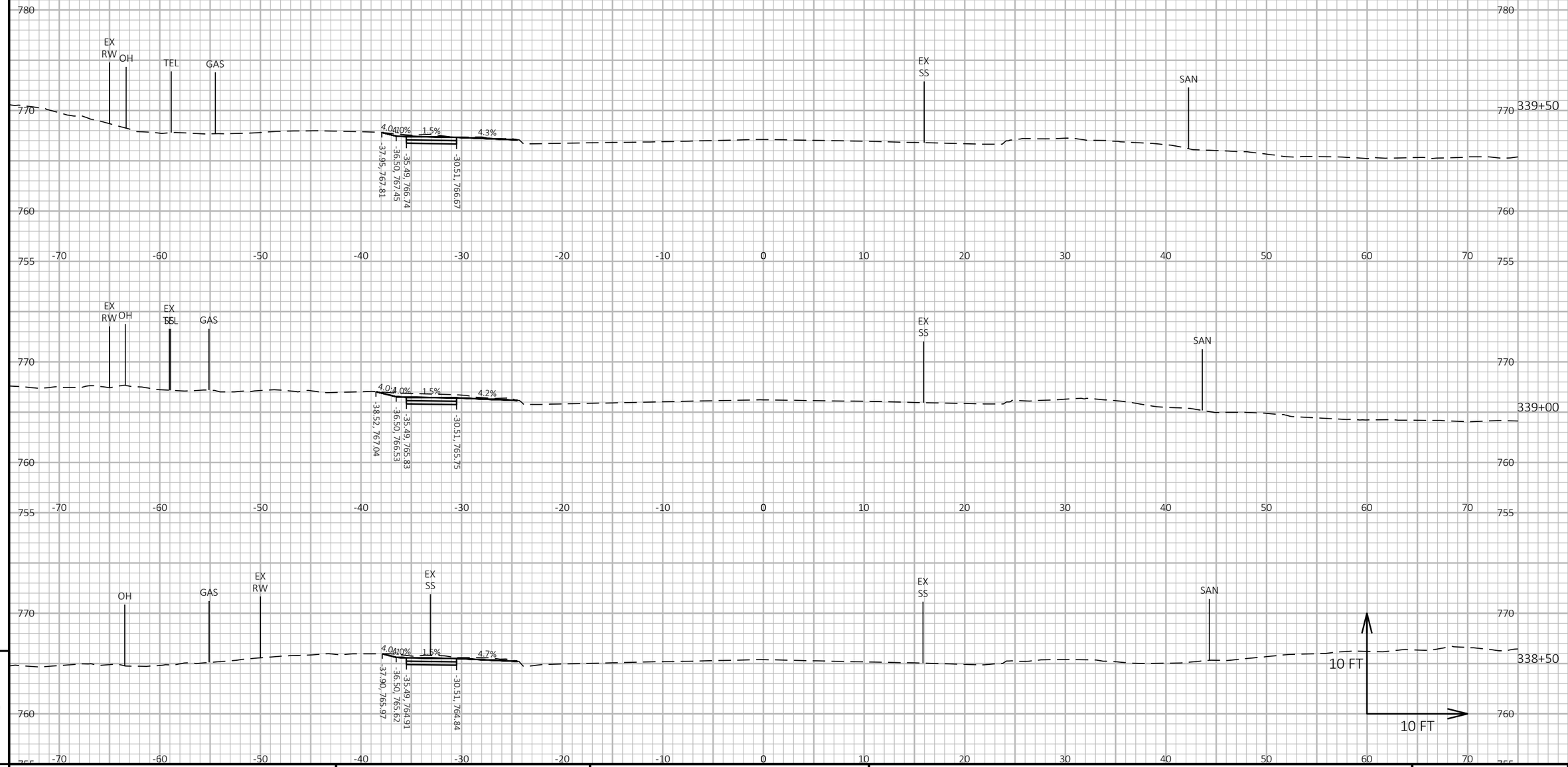
PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	CROSS SECTIONS: STH 167	SHEET 406	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\DSGN\CRDR\CRDR_STH167.DWG
LAYOUT NAME - XS-17

PLOT DATE : 10/31/2024 12:54 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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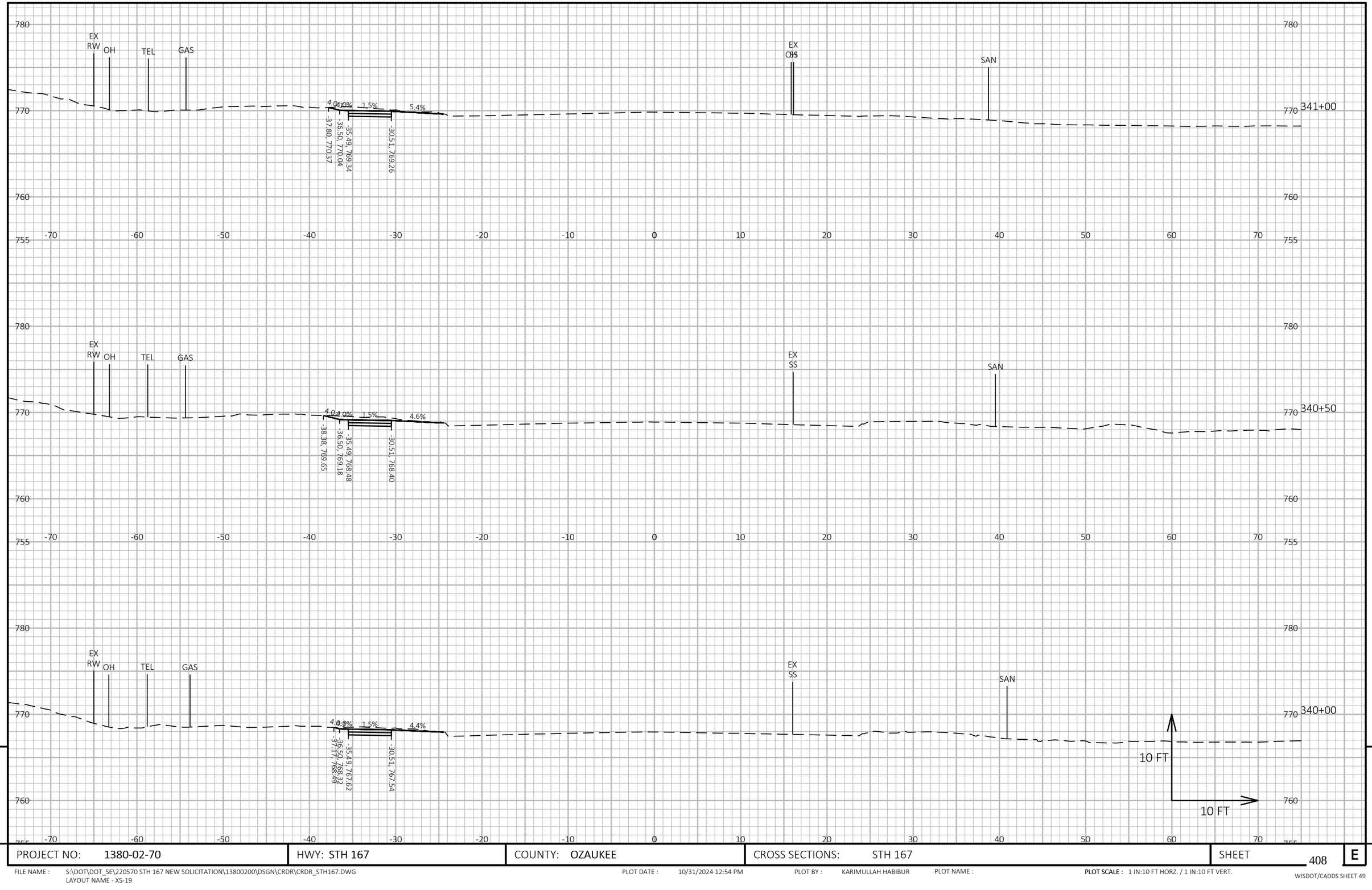
PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	CROSS SECTIONS: STH 167	SHEET 407	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\DSGN\CRDR\CRDR_STH167.DWG
LAYOUT NAME - XS-18

PLOT DATE : 10/31/2024 12:54 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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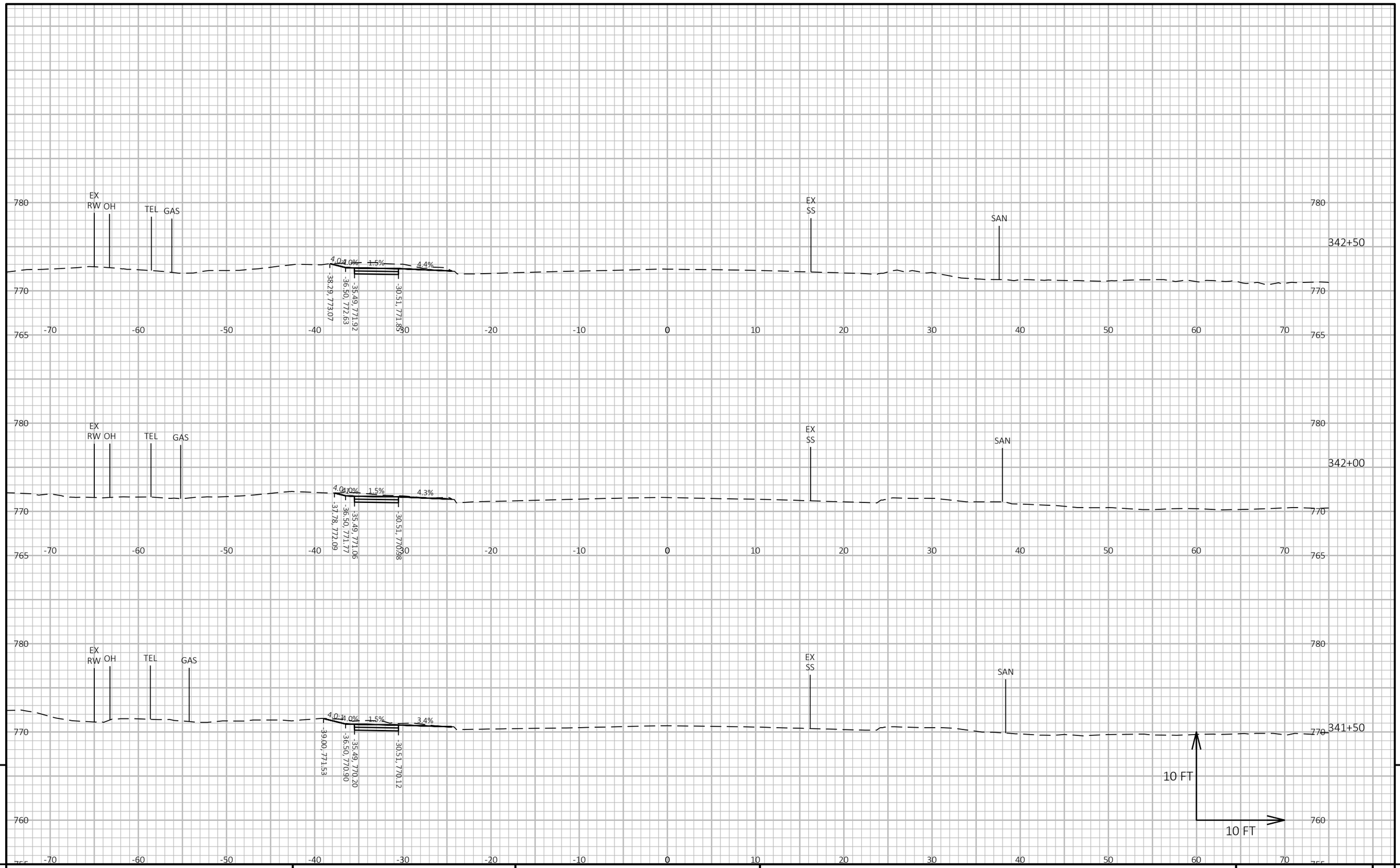
PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	CROSS SECTIONS: STH 167	SHEET 408	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\DSGN\CRDR\CRDR_STH167.DWG
LAYOUT NAME - XS-19

PLOT DATE : 10/31/2024 12:54 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



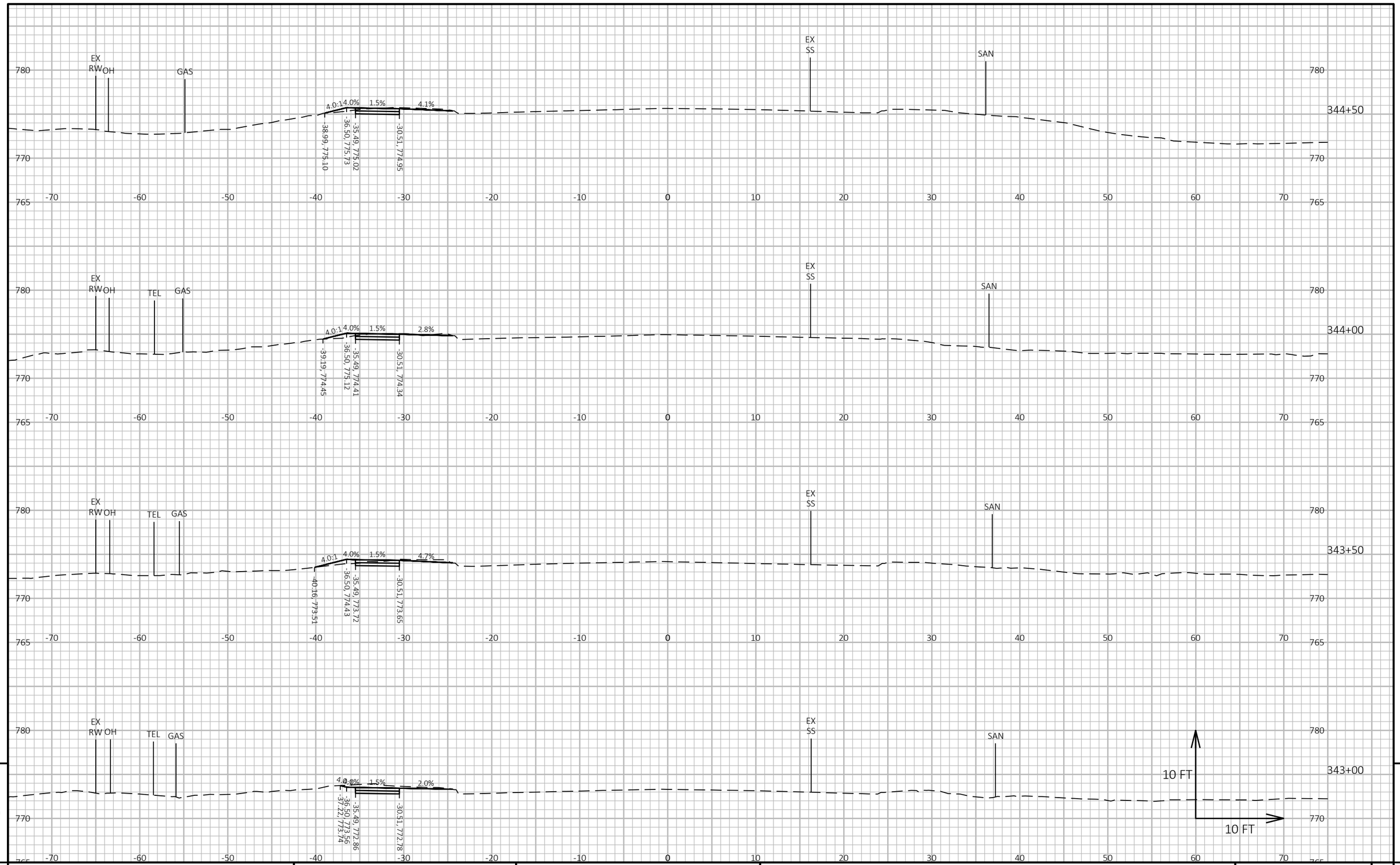
PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	CROSS SECTIONS: STH 167	SHEET 409	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\DSGN\CRDR\CRDR_STH167.DWG
LAYOUT NAME - XS-20

PLOT DATE : 10/31/2024 12:54 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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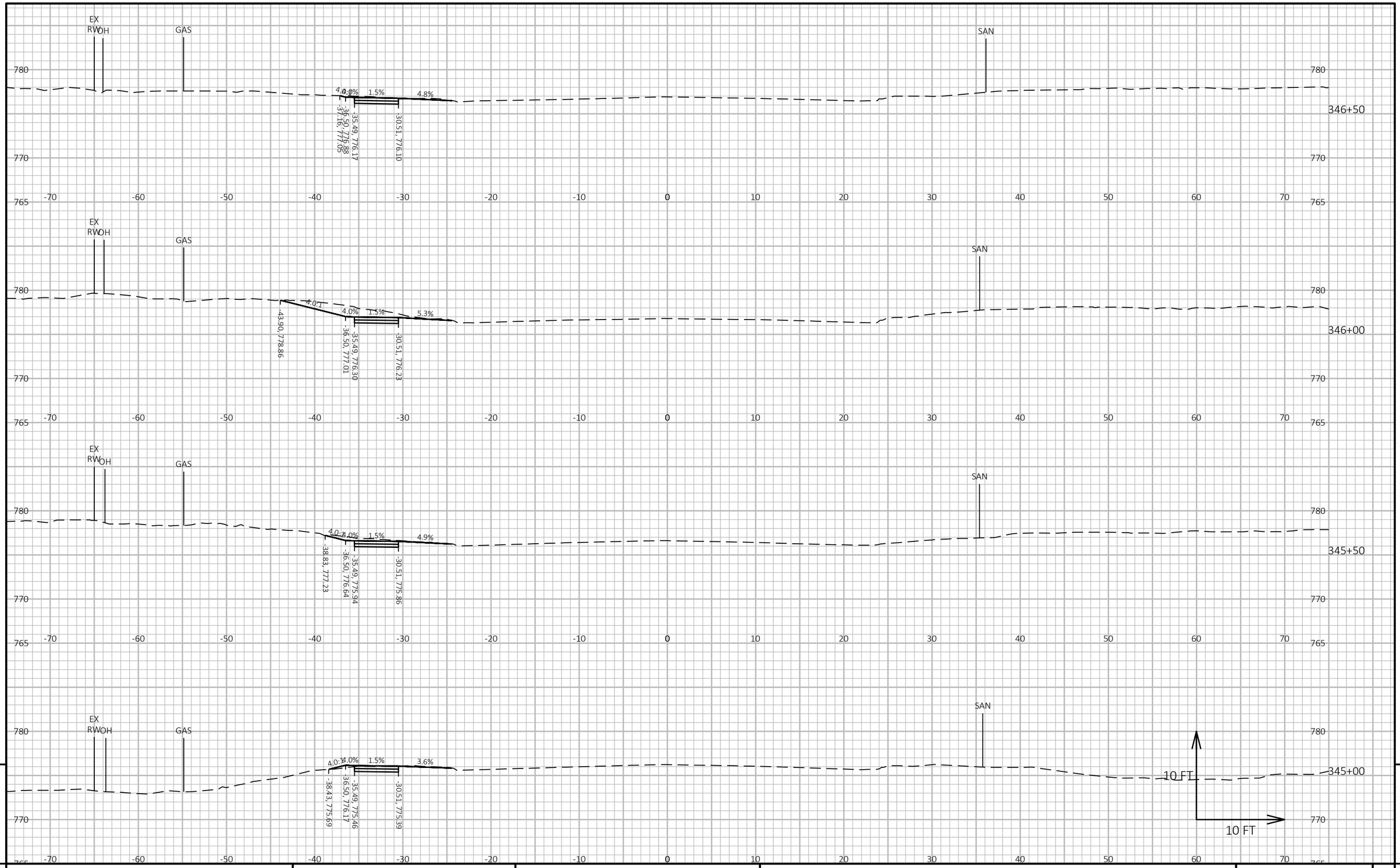
PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	CROSS SECTIONS: STH 167	SHEET 410	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\DSGN\CRDR\CRDR_STH167.DWG
LAYOUT NAME - XS-21

PLOT DATE : 10/31/2024 12:54 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



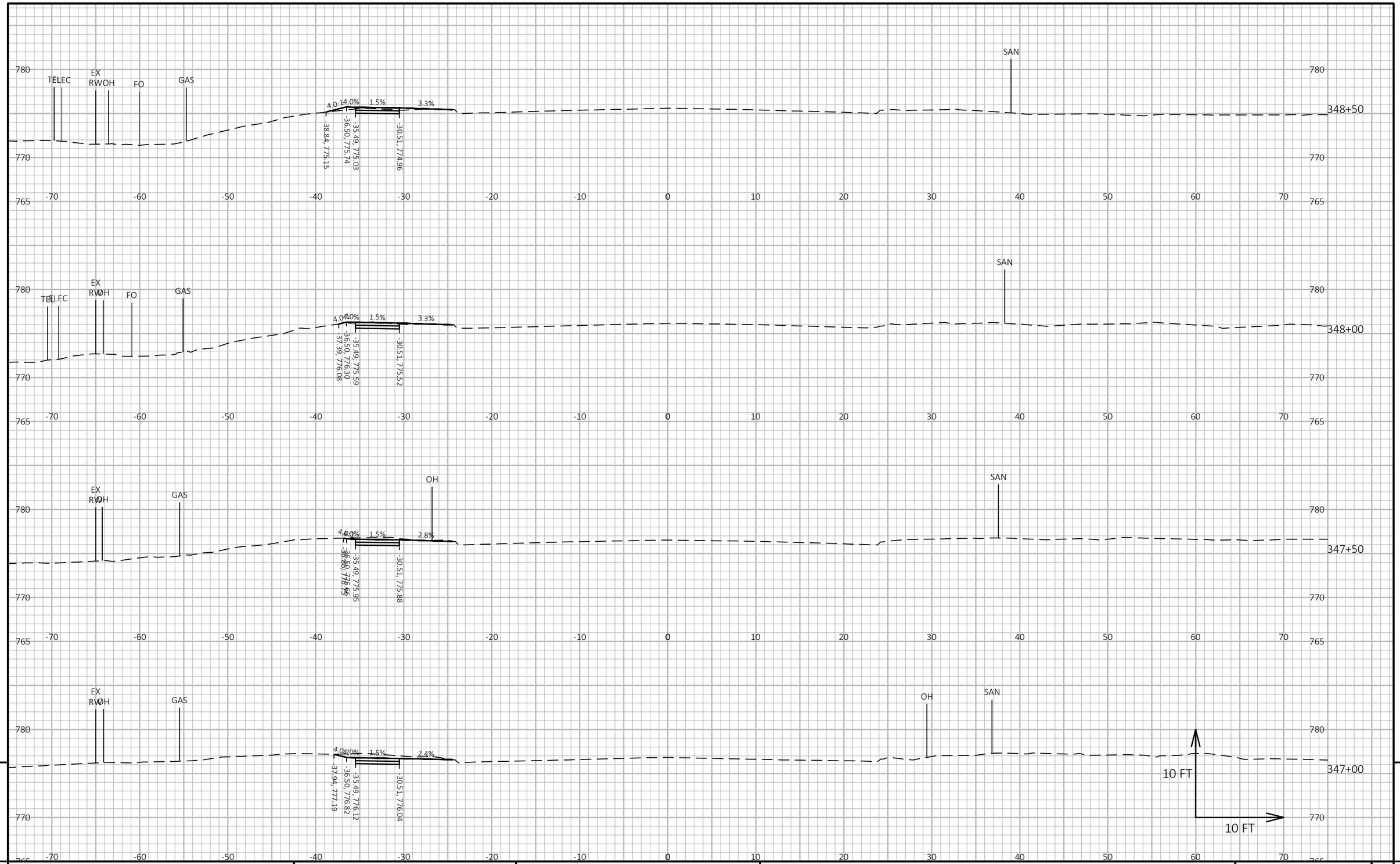
9	PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	CROSS SECTIONS: STH 167	SHEET 411 E

9

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\DSGN\CRDR\CRDR_STH167.DWG
LAYOUT NAME - XS-22

PLOT DATE : 10/31/2024 12:55 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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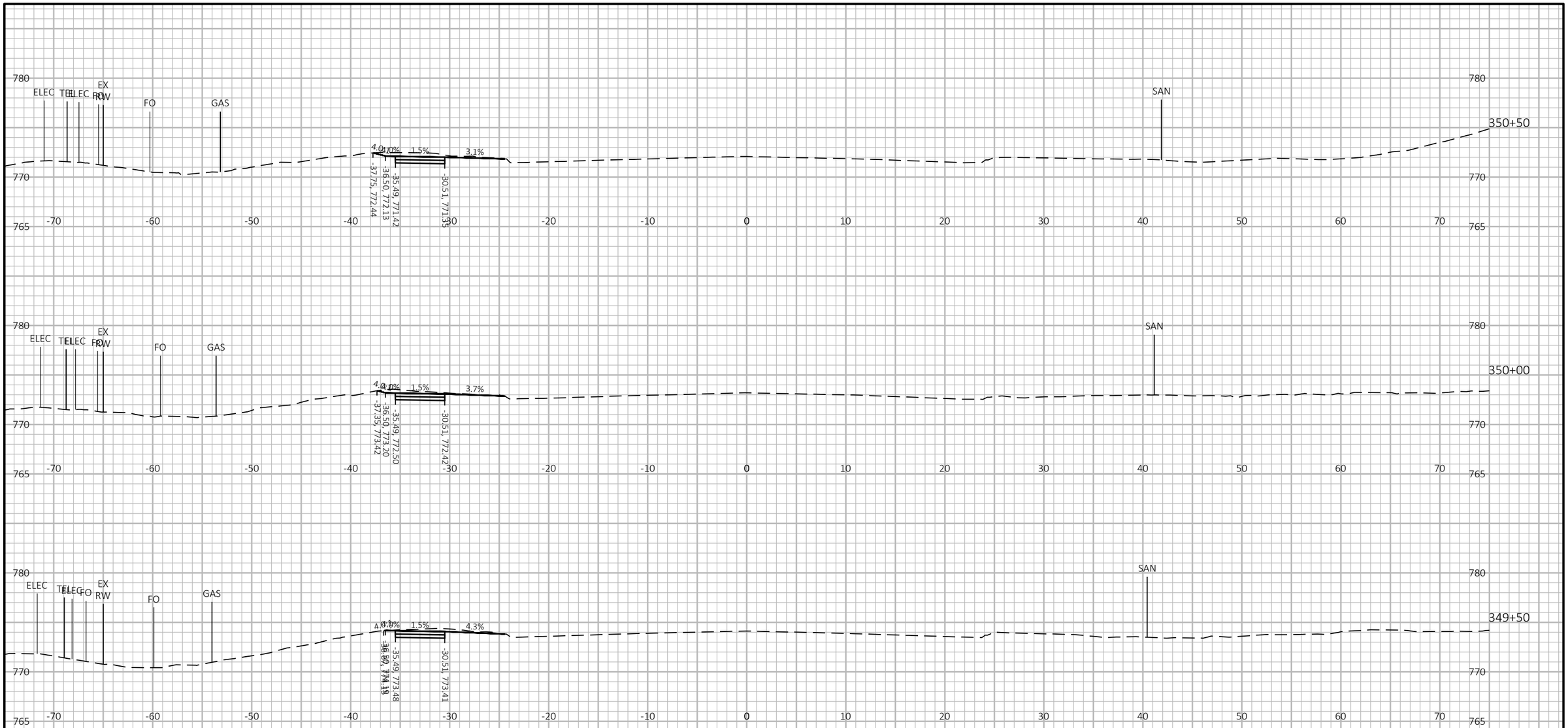
PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	CROSS SECTIONS: STH 167	SHEET 412	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\DSGN\CRDR\CRDR_STH167.DWG
LAYOUT NAME - XS-23

PLOT DATE : 10/31/2024 12:55 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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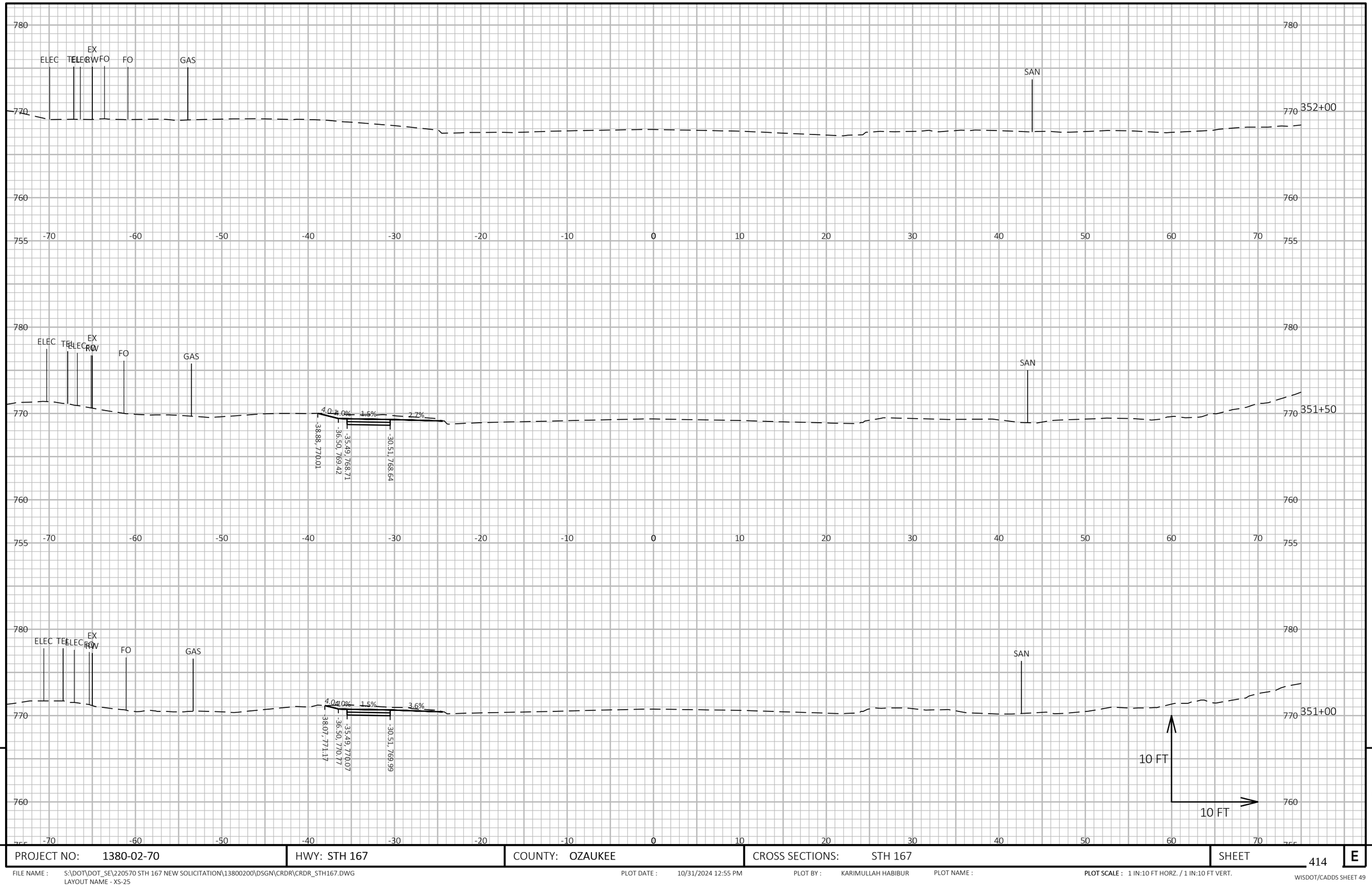
PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	CROSS SECTIONS: STH 167	SHEET 413	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\DSGN\CRDR\CRDR_STH167.DWG
LAYOUT NAME - XS-24

PLOT DATE : 10/31/2024 12:55 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

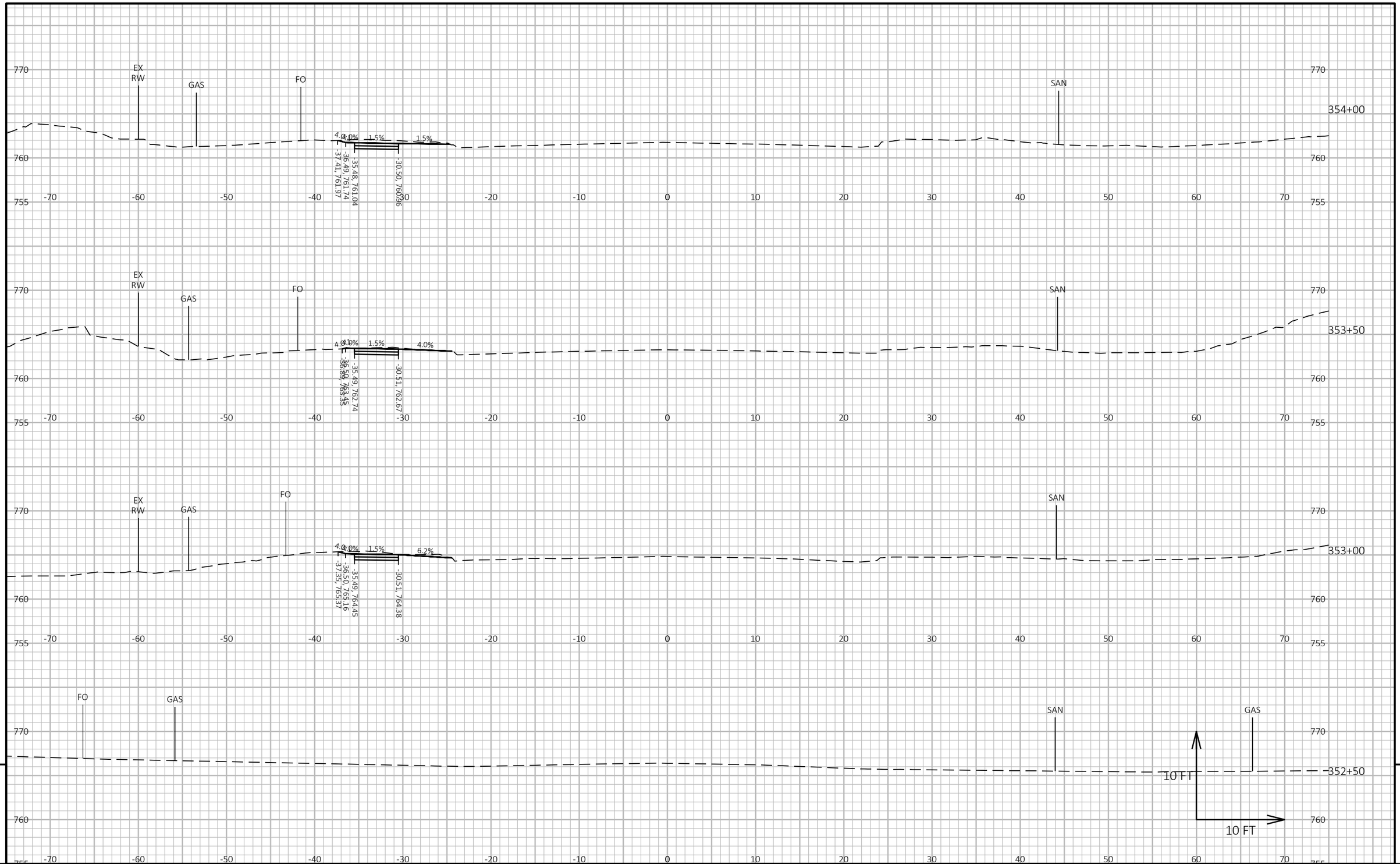


PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	CROSS SECTIONS: STH 167	SHEET 414	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\DSGN\CRDR\CRDR_STH167.DWG
LAYOUT NAME - XS-25

PLOT DATE : 10/31/2024 12:55 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

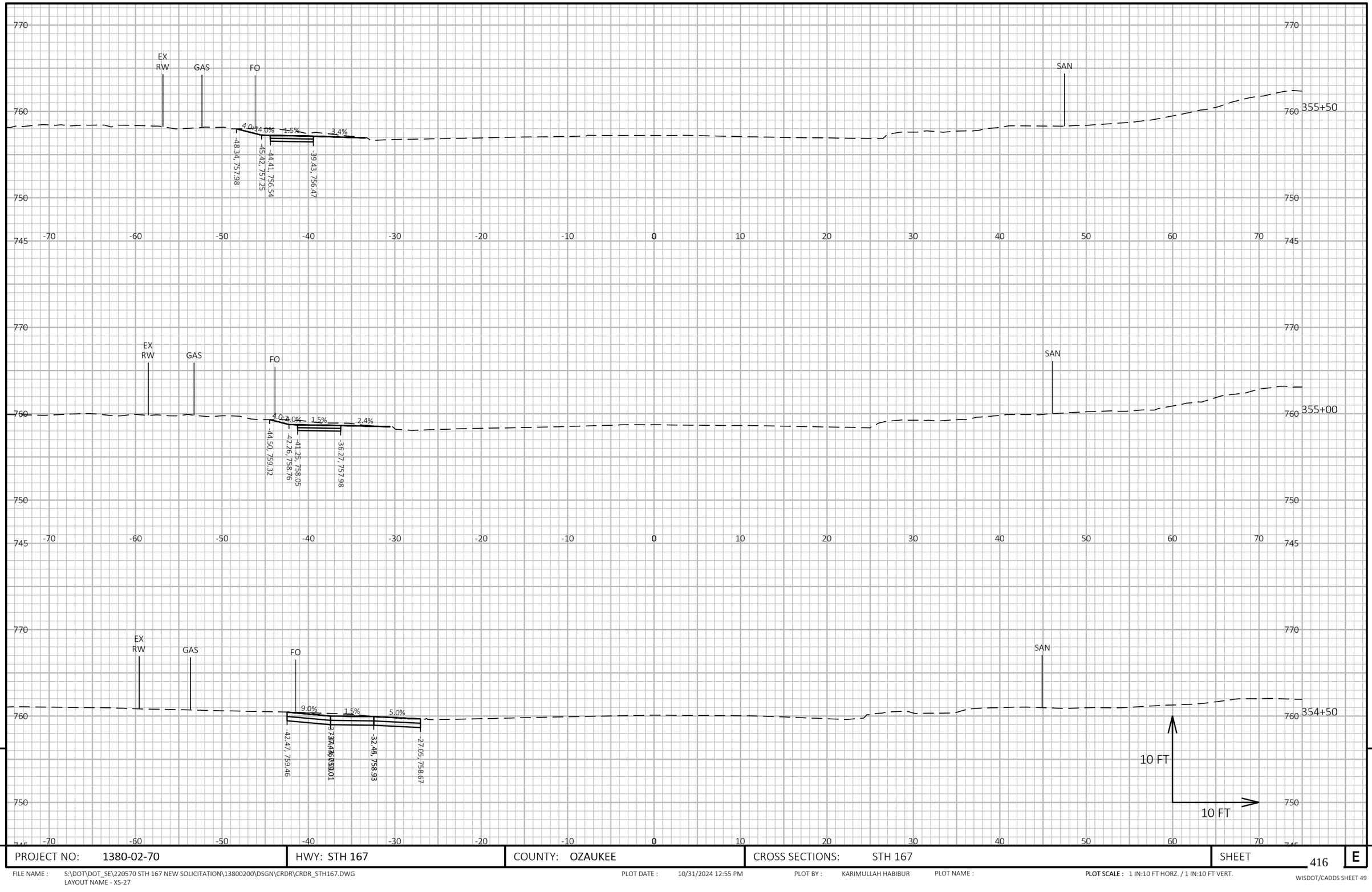


PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	CROSS SECTIONS: STH 167	SHEET 415 E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\DSGN\CRDR\CRDR_STH167.DWG
LAYOUT NAME - XS-26

PLOT DATE : 10/31/2024 12:55 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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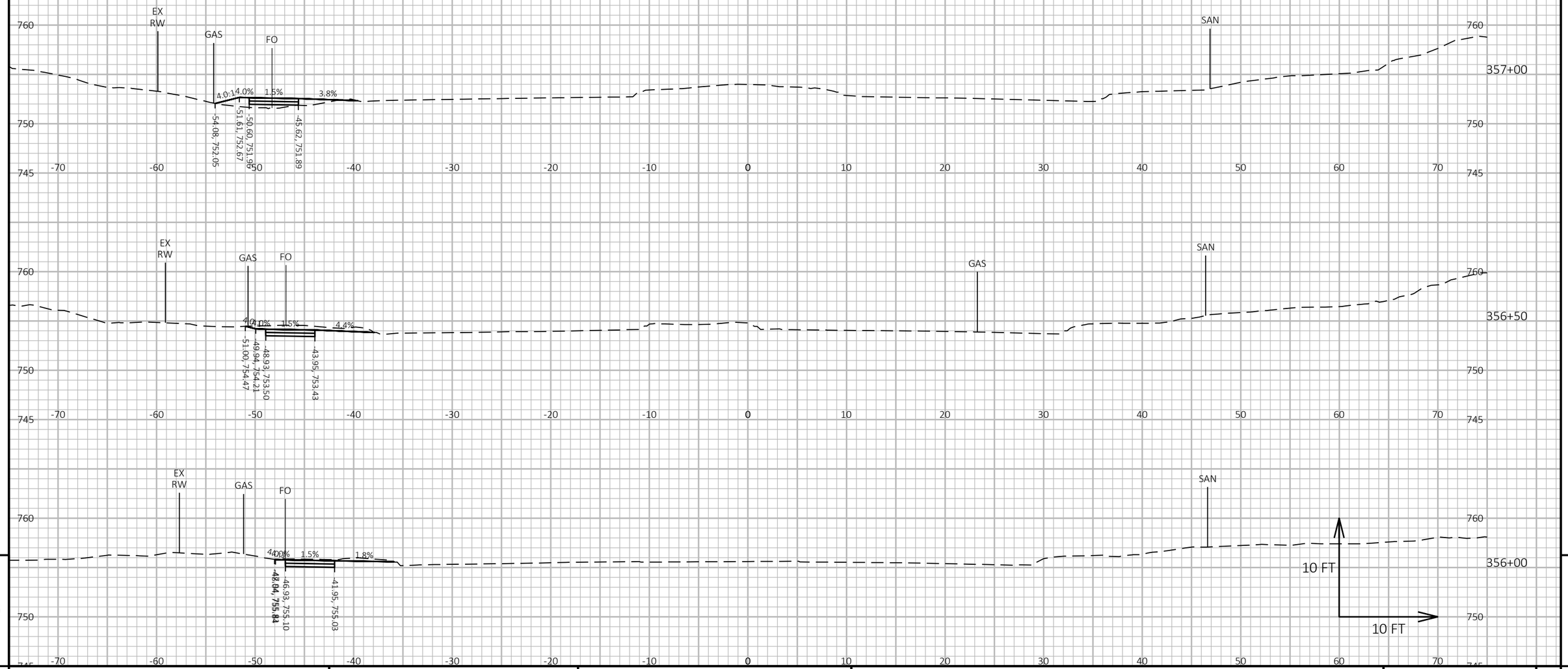
PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	CROSS SECTIONS: STH 167	SHEET 416	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\DSGN\CRDR\CRDR_STH167.DWG
LAYOUT NAME - XS-27

PLOT DATE : 10/31/2024 12:55 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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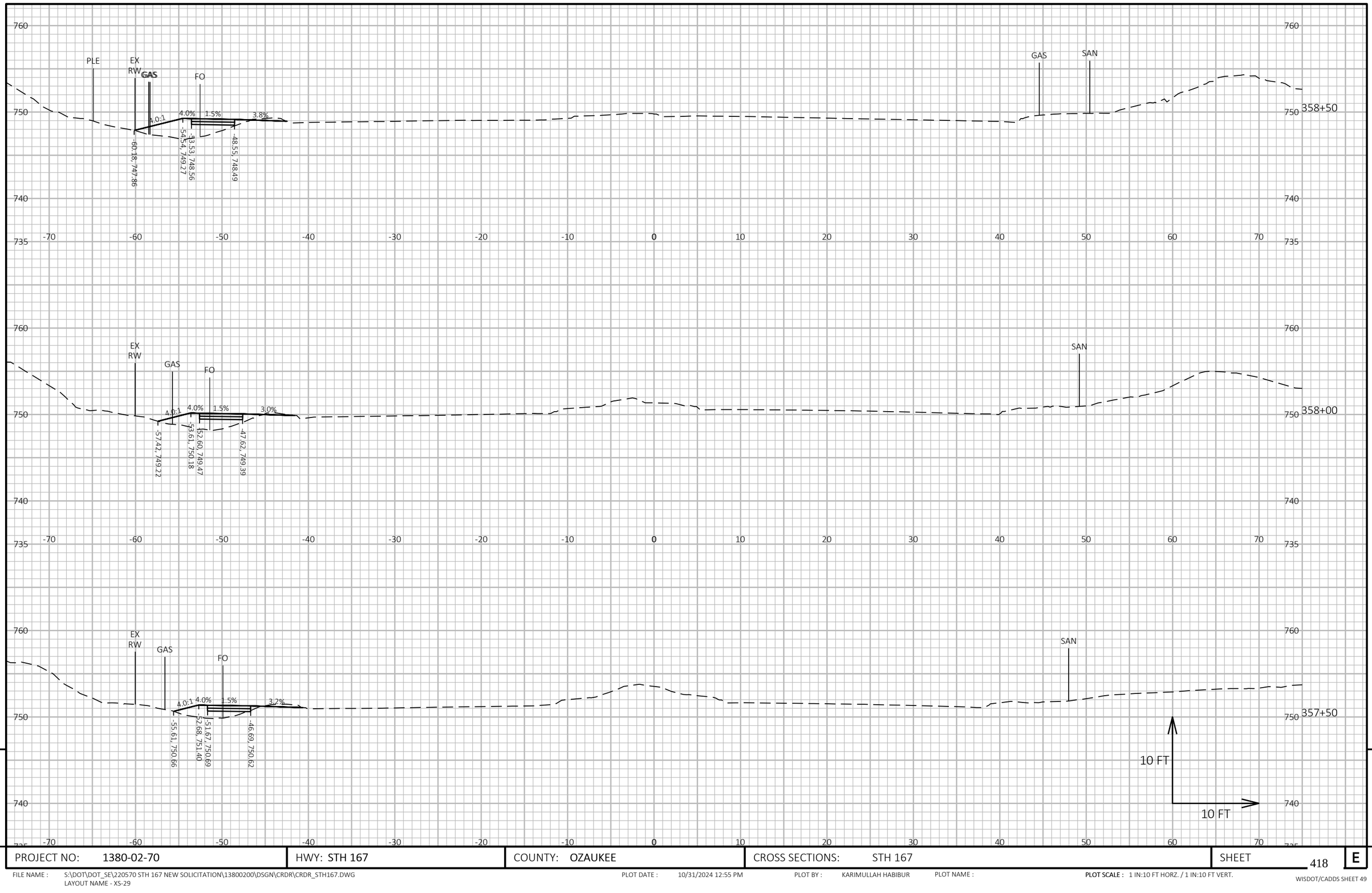
PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	CROSS SECTIONS: STH 167	SHEET 417	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\DSGN\CRDR\CRDR_STH167.DWG
LAYOUT NAME - XS-28

PLOT DATE : 10/31/2024 12:55 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1380-02-70	HWY: STH 167	COUNTY: OZAUKEE	CROSS SECTIONS: STH 167	SHEET 418	E

FILE NAME : S:\DOT\DOT_SE\220570 STH 167 NEW SOLICITATION\13800200\DSGN\CRDR\CRDR_STH167.DWG
LAYOUT NAME - XS-29

PLOT DATE : 10/31/2024 12:55 PM PLOT BY : KARIMULLAH HABIBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov