WKE

FEBRUARY 2021

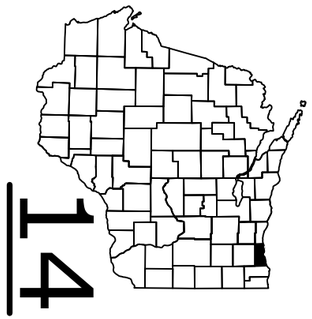
PROJECT ID: 2150-00-71

COUNTY: MILWAUKEE

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 = 690



N

DESIGN DESIGNATION

A.A.D.T.	=	27,700 - 36,600 (2021)
A.A.D.T.	=	30,400 - 40,100 (2041)
D.H.V.	=	6.3 (2041)
D.D.	=	53/47 (2041)
T.	=	7.4%
DESIGN SPEED	=	45 MPH
ESALS	=	NA

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

BROWN DEER RD C MILW & V BRWN DEER

91st STREET TO DEERBROOK TRAIL

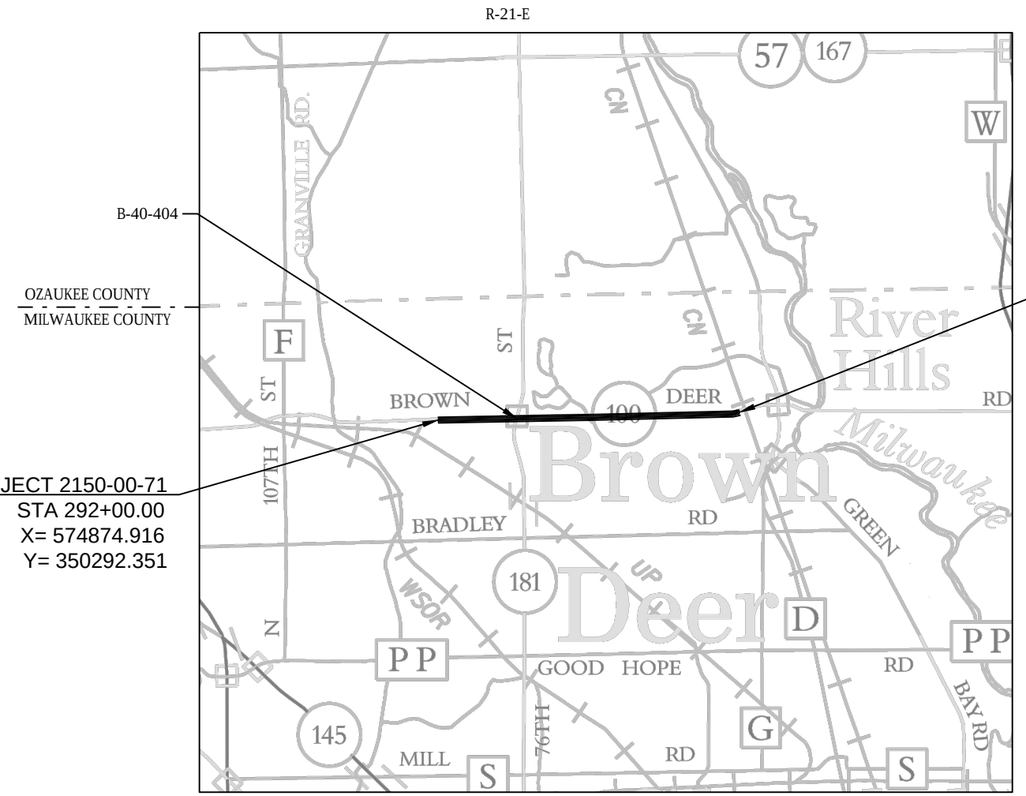
STH 100

MILWAUKEE COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
2150-00-71	WISC 2021142	1

STATE PROJECT NUMBER

2150-00-71



LAYOUT

SCALE 0 1.5 MI

TOTAL NET LENGTH OF CENTERLINE = 2.944 MI.

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), MILWAUKEE COUNTY, NAD83 (2013), 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.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	EMCS
Designer	WISDOT
Project Manager	VIDA SHAFFER
Regional Examiner	STEVE CHOJNACKI
Regional Supervisor	REEM SHAHIN

APPROVED FOR THE DEPARTMENT

DATE November 1, 2020 Vida Shaffer (Signature)

E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\010101_TI.DWG PLOT DATE : 12/15/2020 5:27 AM PLOT BY : SCHMIDT, JUDENE M PLOT NAME :

2

GENERAL NOTES

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. COORDINATE CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.

CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER OR THEORETICAL FLANGE POINT OF INTEGRAL CURB AND GUTTER. CURB AND GUTTER RADII ARE MEASURED TO THE FLANGE OF CURB AND GUTTER OR THEORETICAL FLANGE POINT OF INTEGRAL CURB AND GUTTER.

FOR INLET AND CATCH BASIN STRUCTURES LOCATED IN THE CURB, ELEVATIONS ARE GIVEN TO THE FLANGE LINE AND STATION/OFFSET ARE GIVEN TO THE CENTER OF STRUCTURE. MH STATION, OFFSET, AND ELEVATIONS ARE GIVEN TO THE CENTER OF STRUCTURE. SEE CONSTRUCTION DETAILS.

CONTACT THE PROJECT ENGINEER, THE COUNTY SURVEYOR, AND SEWRPC AT LEAST TWO WEEKS BEFORE WORKING NEAR ANY SECTION CORNER MONUMENT.

CONSTRUCT PAVEMENT CONSISTENT WITH THE PLAN TYPICAL SECTIONS. LOCATE LONGITUDINAL JOINTS IN ASPHALT PAVEMENT OUTSIDE OF DRIVING, TURNING, BIKE, OR PARKING LANE UNLESS DIRECTED OTHERWISE BY THE ENG PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, BIKE, OR PARKING LANE. THE CONTRACTOR'S PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, BIKE OR PARKING LANE.

SAWCUT EXISTING ASPHALT AND CONCRETE PAVEMENT AT THE MATCHLINE AS INDICATED ON THE PLAN OR AS DIRECTED BY THE ENGINEER.

CONSTRUCT INSIDE EDGE OF SIDEWALK 1/2 INCH HIGHER THAN TOP OF CURB WHEN THEY ARE ADJACENT TO EACH OTHER.

RESHAPE, RESTORE AND FINISH ALL PREVIOUSLY GRASSED AREAS DISTURBED BY OPERATIONS OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS AT NO EXPENSE TO THE DEPARTMENT.

PLACE TOPSOIL 1 INCH BELOW THE TOP OF ADJACENT CONCRETE CURBS OR SIDEWALKS IN SOD AREAS.

DISTURBED AREAS WITHIN THE RIGHT OF WAY ARE TO BE TOPSOILED (SALVAGED), FERTILIZED, SEEDED, AND MULCHED OR SODDED AS DIRECTED BY THE ENGINEER.

BACKFILL ALL OPENINGS AND HOLES LOCATED WITHIN THE ROADWAY RESULTING FROM REMOVALS OR ABANDONMENTS WITH GRANULAR BACKFILL UNLESS THE PLANS PROVIDE FOR ALTERNATE BACKFILL.

DO NOT REMOVE ANY TREES OR SHRUBS WITHOUT APPROVAL OF THE ENGINEER.

ALL SIGN LOCATIONS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO INSTALLATION.

EXISTING DRIVEWAYS AND FIELD ENTRANCES SHALL BE RESTORED IN KIND AS DIRECTED BY THE ENGINEER IN THE FIELD AND AT THE LOCATION DETERMINED BY THE ENGINEER.

CROSS SECTIONS SHOWN INCLUDE THE THICKNESS OF TOPSOIL WHERE REQUIRED. TOPSOIL SHALL BE REPLACED WITH 4-INCH 6-INCHTYPICAL DEPTH.

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

VERIFY THE EXISTING STORM SEWER SYSTEM CONNECTION LOCATIONS AND ELEVATIONS BEFORE ORDERING DRAINAGE STRUCTURES AND PIPES. NOTIFY THE ENGINEER OF ANY DEVIATIONS FROM THE INFORMATION SHOWN ON THE PLANS BEFORE INSTALLING THE PROPOSED STORM SEWER.

ORDER OF SECTION 2 SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
REMOVAL PLAN
PLAN DETAILS
CURB RAMP DETAILS
SIDEWALK DETAILS
PAVING GRADES
EROSION CONTROL
STORM SEWER
LANDSCAPING PLANS
PERMANENT SIGNING
LIGHTING PLAN
TRAFFIC SIGNAL PLANS
PAVEMENT MARKING
TRAFFIC CONTROL
ALIGNMENT DETAILS

HMA PAVING

LOCATION	ASPHALT MIX	LOWER LAYER	UPPER LAYER
PROJECT LIMITS	3MT58-28S	2 1/4"	-
PROJECT LIMITS	4MT58-28S	-	1 3/4"

COMMUNICATION LINE

AT&T LOCAL NETWORK
JENNIFER NAVARRO
1500 WATERTOWN PLANK RD
SUITE 107
ELM GROVE, WI 53122
(414) 459-3564
j.navarro@northwindtech.com

AT&T WISCONSIN
JEFF OLDENBURG
2005 PEWAUKEE RD
WAUKESHA, WI 53188-2443
(262) 896-7522
jo2376@att.com

BRANDON FOX
6070 N FLINT RD
GLENDALE, WI 53209
(414) 459-3571
bfox@cablecomllc.com

CENTURYLINK COMMUNICATIONS, LLC
MASOOD ZEERAK
1025 ELDORADO BLVD
BROOMFIELD, CO 80021
(720) 888-8568
masood.zeerak@centurylink.com

LEVEL 3 COMMUNICATIONS LLC
NETWORK RELOCATIONS
MASOOD ZEERAK
1025 ELDORADO BLVD
BROOMFIELD, CO 80021
(720) 888-8568
masood.zeerak@centurylink.com

CHARTER (SPECTRUM) COMMUNICATIONS
NEAL LONG
1320 N DR MARTIN LUTHER KING DR
MILWAUKEE, WI 53212
(414) 430-7189
neal.long@charter.com

SPRINT COMMUNICATIONS CO LP
DAN HILLIARD
849 EARL STREET
ST PAUL, MN 55106
(612) 217-3526
dan.hilliar@t-mobile.com

PAETEC COMMUNICATIONS, LLC
ERIC BECKER
314 N DANZ AVE
GREEN BAY, WI 54302
(920) 461-9825
ericbecker@windstream.com

CITY OF MILWAUKEE - CUC
KAREN ROGNEY
841 N BROADWAY
MILWAUKEE, WI 53202
(414) 286-3243
krogne@milwaukee.gov

CITY OF MILWAUKEE - COMMUNICATIONS
ENG-KIE LEE
841 N BROADWAY, RM 902
MILWAUKEE, WI 53202
(414) 286-2174
elee@milwaukee.gov

EVERSTREAM
SHAD GARCIA
324 E WISCONSIN AVE, SUITE 730
MILWAUKEE, WI 53202
(414) 552-6685
sgarcia@everstream.net

GAS/PETROLIUM

WE ENERGIES
ALEX DANTINNE
500 S 116TH ST.
WEST ALLIS, WI 53214
(920) 621-6903
alex.dantinne@we-energies.com

ELECTRICAL-TRANSMISSION

ATC MANAGEMENT, INC.
CHRIS DAILEY
P.O. BOX 47
WAUKESHA, WI 53187
(262) 506-6884
cdailey@atcllc.com

WE ENERGIES
JOE FELLENZ
W140N9100 LILLY RD
MENOMONEE FALLS, WI 53051
(262) 502-6831
EMERGENCY DISPATCH: (800) 662-4797
joseph.fellenz@we-energies.com

WISDOT ATR PULL BOXES
RUSSEL LEWIS
3633 PIERSTORFF ST.
MADISON, WI 53704
(608) 516-5754
russel.lewis@dot.wi.gov

WISDOT STREET LIGHTING

ERIC PEREA
141 NW BARSTOW STREET
WAUKESHA, WI 53188
(262) 574-5422
Eric.Perea@dot.wi.gov

CITY OF MILWAUKEE - STREET LIGHTING

MARK MACRAE
1540 W CANAL ST.
MILWAUKEE, WI 53233
(414) 286-5928
mwray@milwaukee.gov

WISDOT TRAFFIC SIGNALS

JOYCE MURPHY
141 NW BARSTOW STREET
WAUKESHA, WI 53087
(262) 548-5933
joyce.murphy@dot.wi.gov

SEWER

CITY OF MILWAUKEE
ZAFAR YOUSUF
841 N BROADWAY
4TH FLOOR
MILWAUKEE, WI 53202
(414) 286-2400
zyousu@milwaukee.gov

MILWAUKEE METROPOLITAN SEWERAGE DISTRICT
TIM KACZKOWSKI
260 W SEEBOTH ST
MILWAUKEE, WI 53204
(414) 617-1429
tkaczkowski@mmsd.com

VILLAGE OF BROWN DEER
MATTHEW MAEDERER
4800 W GREEN BROOK DR.
BROWN DEER, WI 53223
(414) 371-3201
mmaederer@browndeer.wi.org

WATER

CITY OF MILWAUKEE
DAVE GOLDAPP
841 N BROADWAY, RM 409
MILWAUKEE, WI 53202
(414) 286-6301
david.m.goldapp@milwaukee.gov

VILLAGE OF BROWN DEER
TOM NENNIG, PE
8950 N ARBOR DR
BROWN DEER, WI 53223-2496
(414) 371-3082
tnennig@browndeerwi.org

MILWAUKEE COUNTY TRANSIT SYSTEM (MCTS)

MELANIE FLYNN
1942 N 17TH STREET
MILWAUKEE, WI 53205
PHONE: (414) 343-1764
EMAIL: mflynn@mcts.org

ANDREW TILLMAN
1942 N 17TH STREET
MILWAUKEE, WI 53205
PHONE: (414) 343-1728
EMAIL: atillman@mcts.org

CITY OF MILWAUKEE

CITY ENGINEER
SAMAR AMIN
841 N BROADWAY
ROOM 902
MILWAUKEE, WI 53202
286-3301
samin@milwaukee.gov

VILLAGE OF BROWN DEER

PUBLIC WORKS DIRECTOR/VILLAGE ENGINEER
MATTHEW MAEDERER
8950 N ARBON DR
BROWN DEER, WI 53223
PHONE: (414) 357-0120
EMAIL: mmaederer@browndeerwi.org

SOUTHEAST WISCONSIN REGIONAL PLANNING COMMISION

ROB MERRY
W239 N1812 ROCKWOOD DRIVE
P.O. BOX 1607
WAUKESHA, WI 53187-1607
PHONE: (262) 953-4289
CELL: (920) 912-1036
rmerry@sewrpc.org

WDNR

DNR LIAISON
KRISTINA BETZOLD
2300 N. DR. MARTIN LUTHER KING DRIVE
MILWAUKEE, WI 53212
PHONE: (414) 263-8517
EMAIL: kristina.betzold@wisconsin.gov

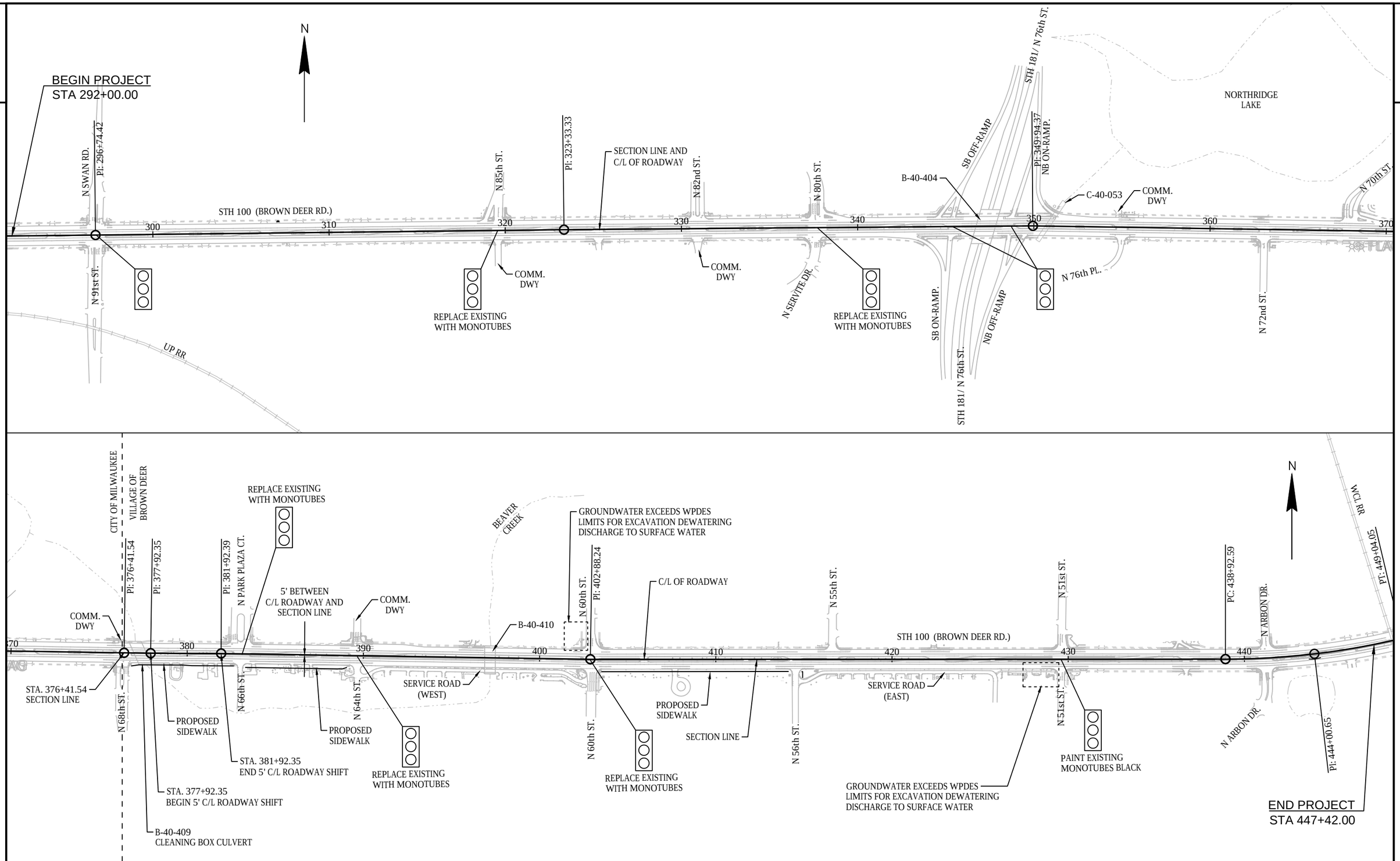
WISDOT MAINTENANCE

MAINTENANCE COORDINATOR
KEVIN PEIFFER
141 NW BARSTOW STREET
WAUKESHA, WI 53187
PHONE: (414) 257-6567
EMAIL: kevin.peiffer@dot.wi.gov

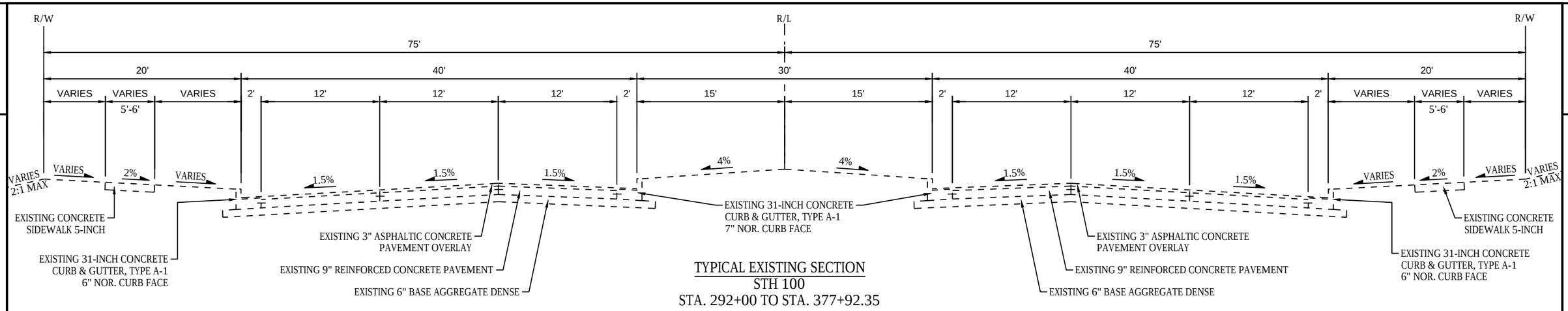
2

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

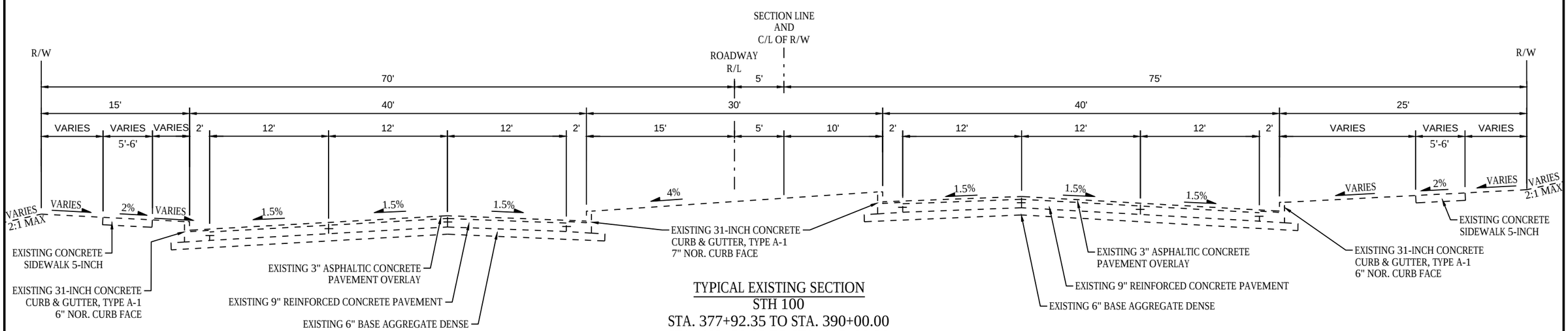
2



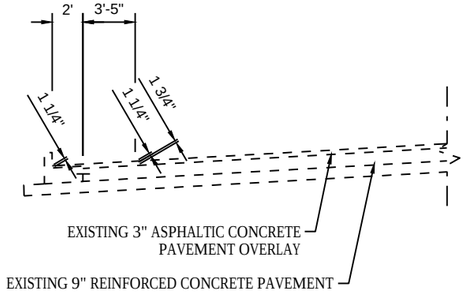
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PROJECT OVERVIEW	SHEET 4	E

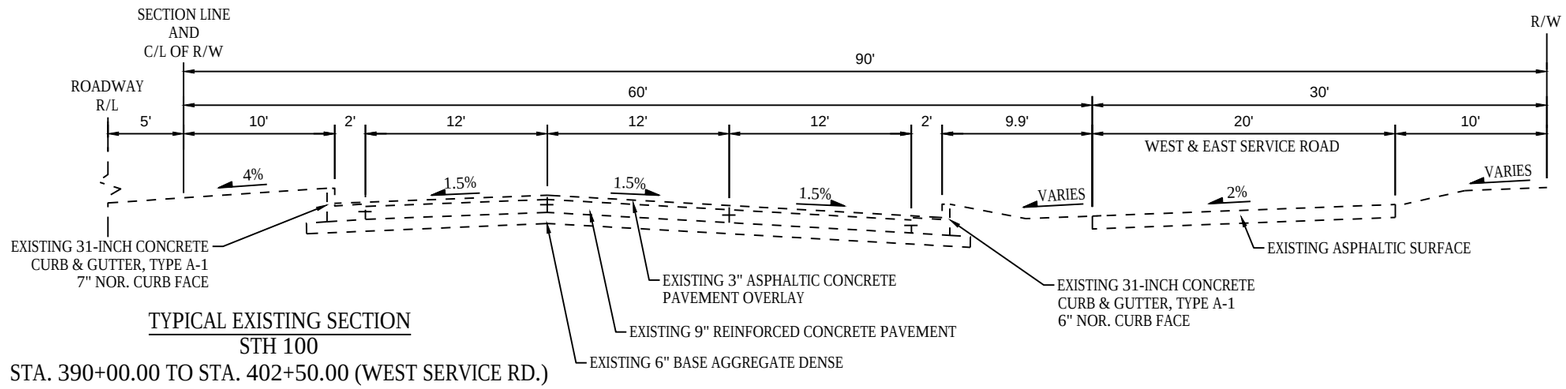


TYPICAL EXISTING SECTION
STH 100
STA. 292+00 TO STA. 377+92.35



TYPICAL EXISTING SECTION
STH 100
STA. 377+92.35 TO STA. 390+00.00
STA. 402+50.00 TO STA. 415+00.00
STA. 426+00.00 TO STA. 447+42.00

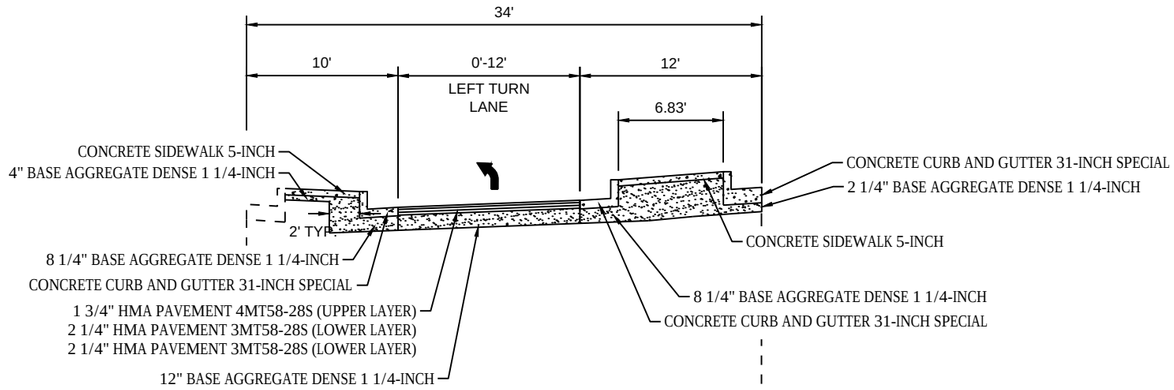


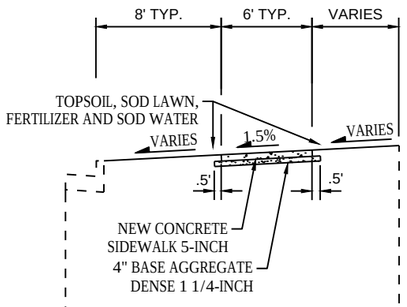


TYPICAL EXISTING SECTION
STH 100
STA. 390+00.00 TO STA. 402+50.00 (WEST SERVICE RD.)
STA. 415+00.00 TO STA. 426+00.00 (EAST SERVICE RD.)

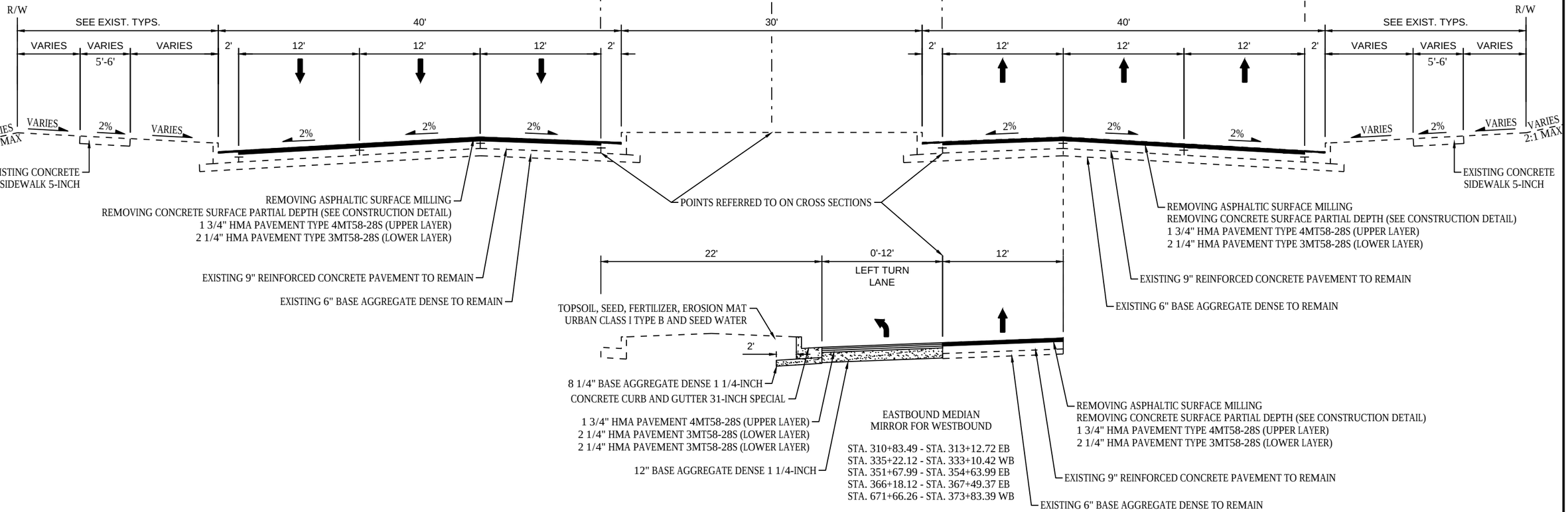
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TYPICAL EXISTING SECTIONS	SHEET 5	E

2





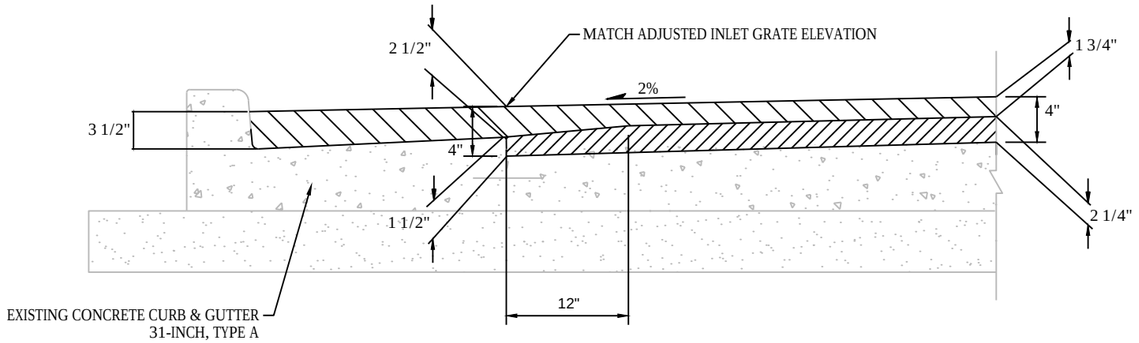
STA. 376+82 TO 389+08 RT
STA. 403+50 TO 414+93 RT



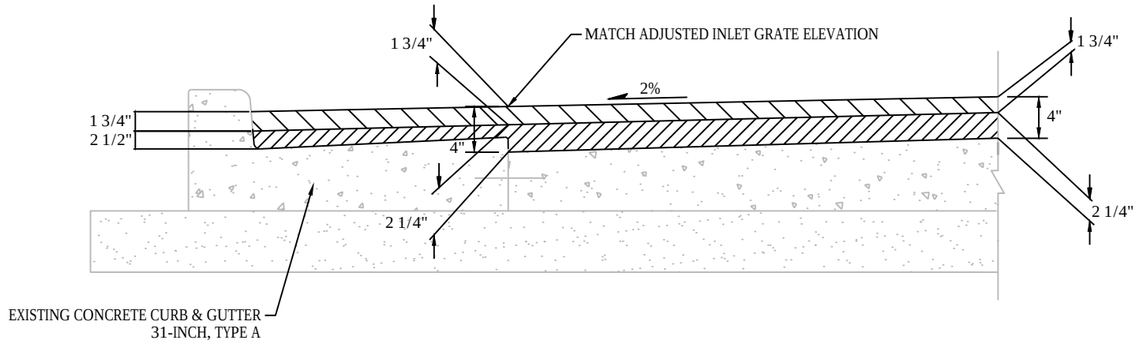
TYPICAL FINISHED SECTION
STH 100

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TYPICAL FINISHED SECTIONS	SHEET 6	E

2



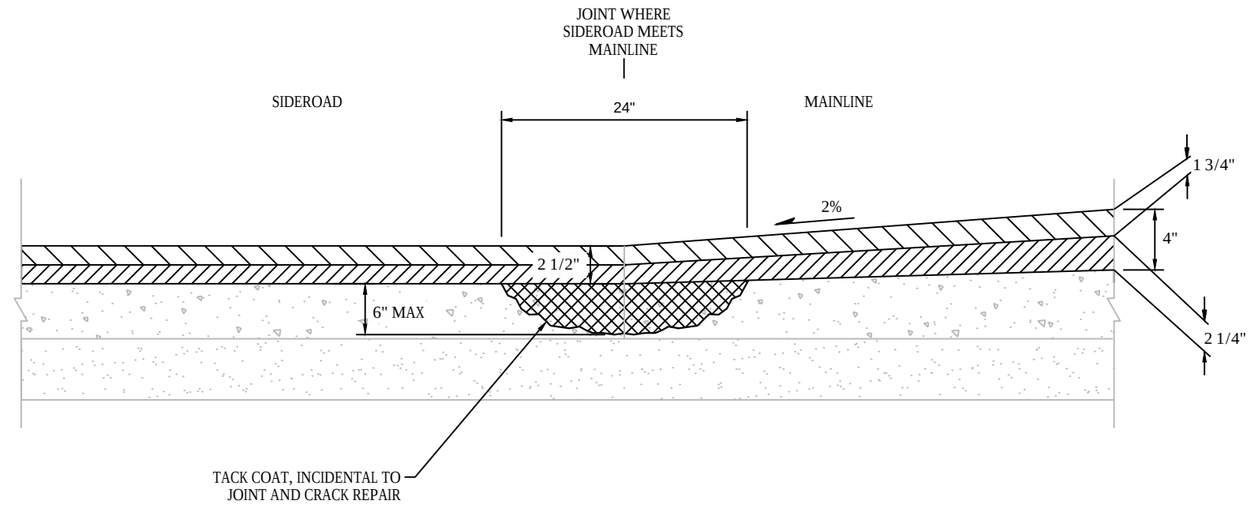
OUTER C&G



MEDIAN C&G

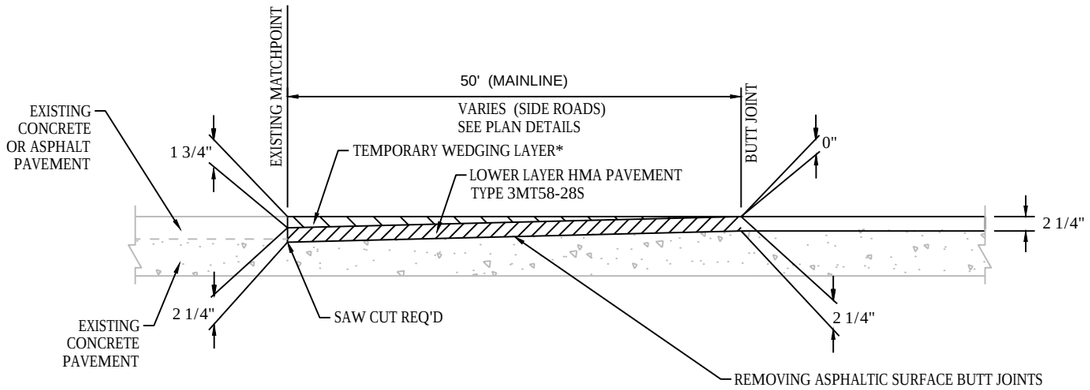
CURB & GUTTER OVERLAY

1 3/4" HMA PAVEMENT 4 MT 58-28 S
(UPPER LAYER)
2 1/4" HMA PAVEMENT 3 MT 58-28 S
(LOWER LAYER)

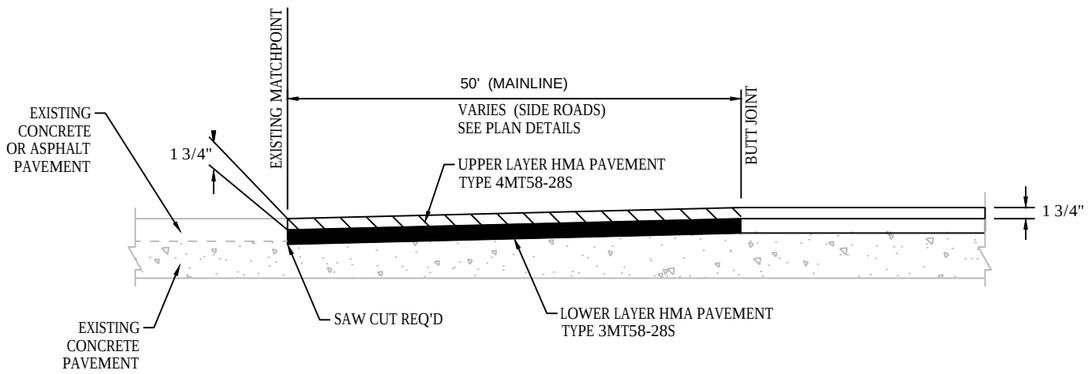


JOINT & CRACK REPAIR

1 3/4" HMA PAVEMENT 4 MT 58-28 S
(UPPER LAYER)
2 1/4" HMA PAVEMENT 3 MT 58-28 S
(LOWER LAYER)
JOINT AND CRACK REPAIR (REPLACE WITH HMA PAVEMENT 3 MT 58-28 S
LOWER LAYER WHICH IS INCIDENTAL TO JOINT AND CRACK REPAIR)



LOWER LAYER DETAIL



UPPER LAYER DETAIL

MAINLINE AND SIDEROADS BUTT JOINT DETAIL

* ADD WEDGING LAYER IF USED BY TRAFFIC PRIOR TO FINAL ASPHALT LIFT

PAY PLACEMENT OF WEDGING LAYER AS ASPHALTIC SURFACE TEMPORARY AND REMOVAL OF WEDGING LAYER AS REMOVING ASPHALTIC SURFACE BUTT JOINTS.

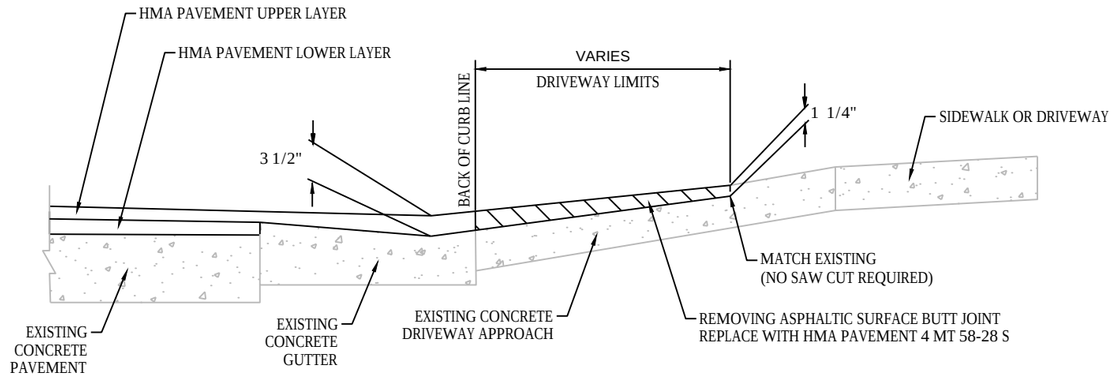
NOTES

STEP 1: MILL 4" EXISTING PAVEMENT.

STEP 2: PAVE 2 1/4" LOWER LAYER OF HMA PAVEMENT TYPE 3MT58-28S, AND PAVE WEDGING LAYER OF ASPHALTIC SURFACE TEMPORARY. THE WEDGING LAYER SHOULD TRANSITION FROM 0" AT THE BUTT JOINT TO 1 3/4" AT THE EXISTING MATCHPOINT OVER THE DISTANCE SHOWN IN THIS DETAIL.

STEP 3: REMOVE WEDGING LAYER.

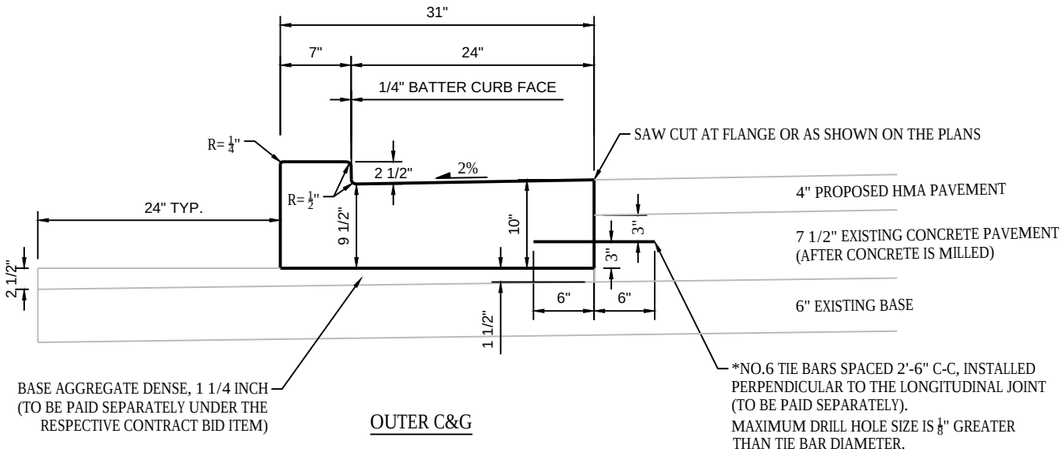
STEP 4: PAVE 1 3/4" UPPER LAYER OF HMA PAVEMENT TYPE 4MT58-28S.



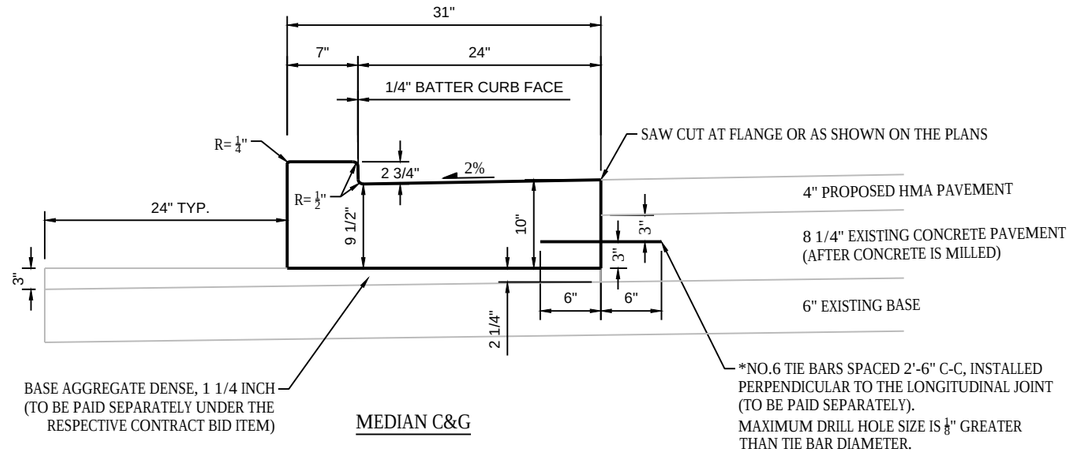
DRIVEWAY APPROACHES BUTT JOINT DETAIL

SEE PLAN SHEETS FOR LOCATIONS

HMA PAVEMENT 4 MT 58-28 S
(UPPER LAYER)



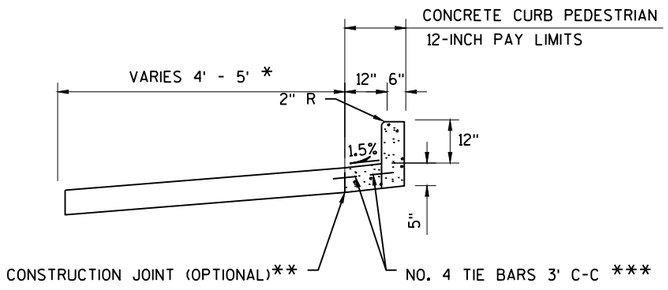
OUTER C&G



MEDIAN C&G

CONCRETE CURB & GUTTER 31-INCH SPECIAL

*NOTE: INSTALL TIE BARS WHEN CONCRETE
PAVEMENT ABUTS CONCRETE CURB AND GUTTER.
DO NOT INSTALL TIE BARS IN HMA PAVEMENT.

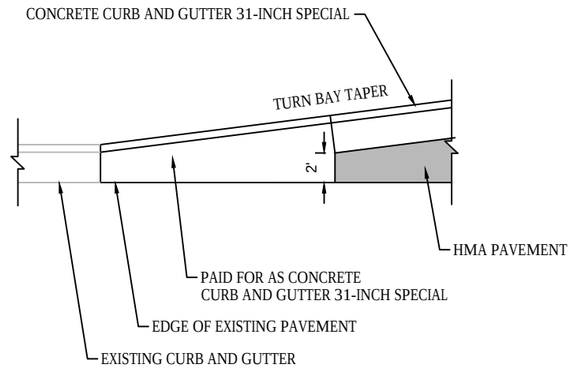


CONCRETE CURB PEDESTRIAN 12-INCH

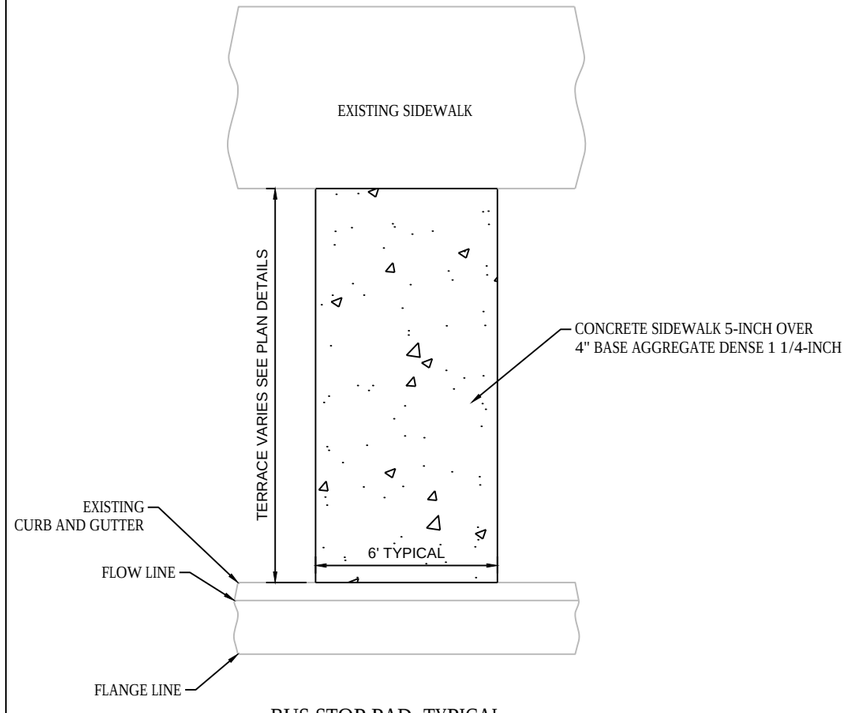
85TH ST - NW QUAD
SERVITE DR - SW QUAD

NOTES:

* CONCRETE SIDEWALK 5-INCH (PAY LIMITS)
** NO. 4 TIE BARS ARE NOT REQUIRED IF CONCRETE CURB PEDESTRIAN WAS INTEGRAL TO CONCRETE SIDEWALK.
*** NO. 4 TIE BARS ARE INCIDENTAL TO CONCRETE CURB PEDESTRIAN 12-INCH.



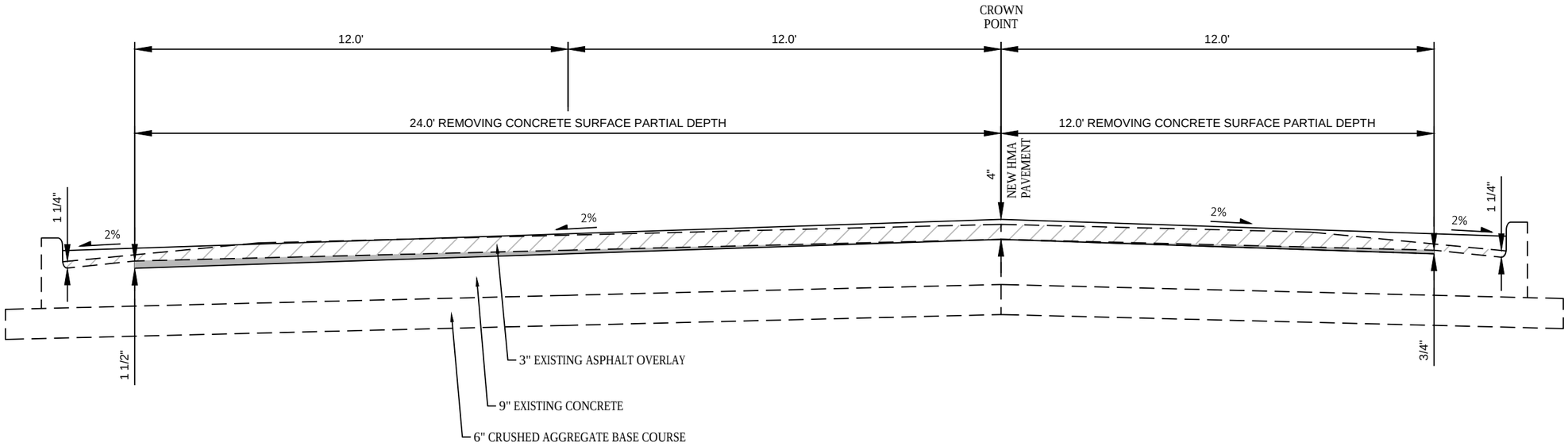
CURB AND GUTTER AT TURN BAY



BUS STOP PAD, TYPICAL

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS	SHEET 9	E

2



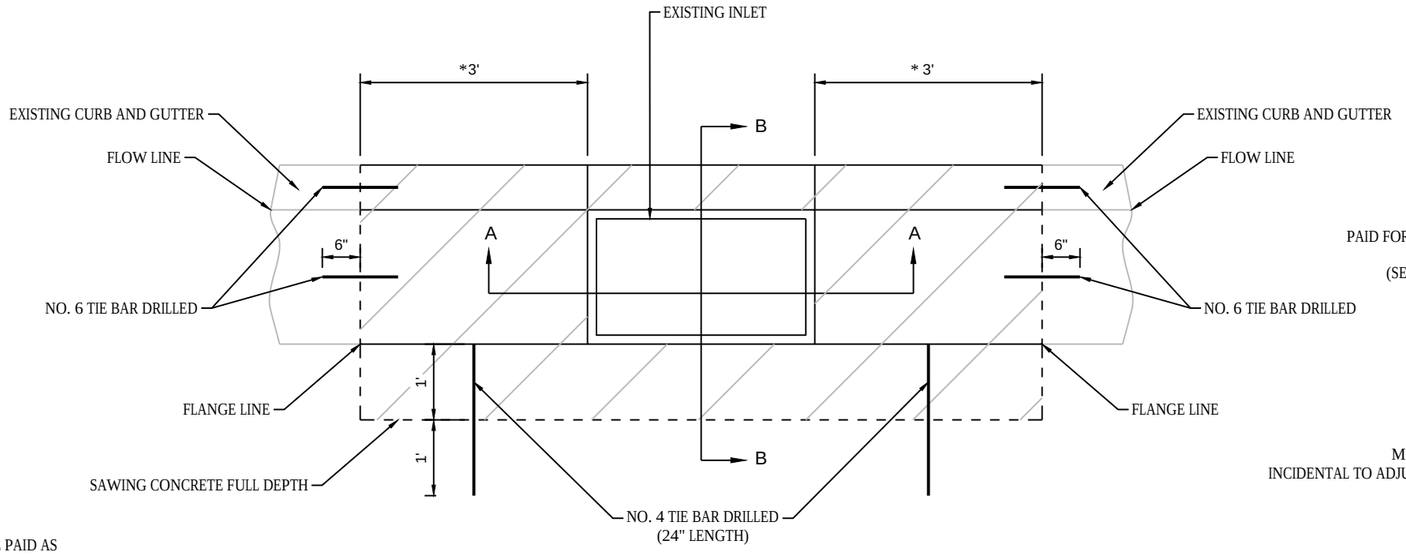
REMOVING ASPHALTIC SURFACE MILLING

REMOVING CONCRETE SURFACE PARTIAL DEPTH

REMOVING CONCRETE SURFACE PARTIAL DEPTH DETAIL

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS	SHEET 10	E

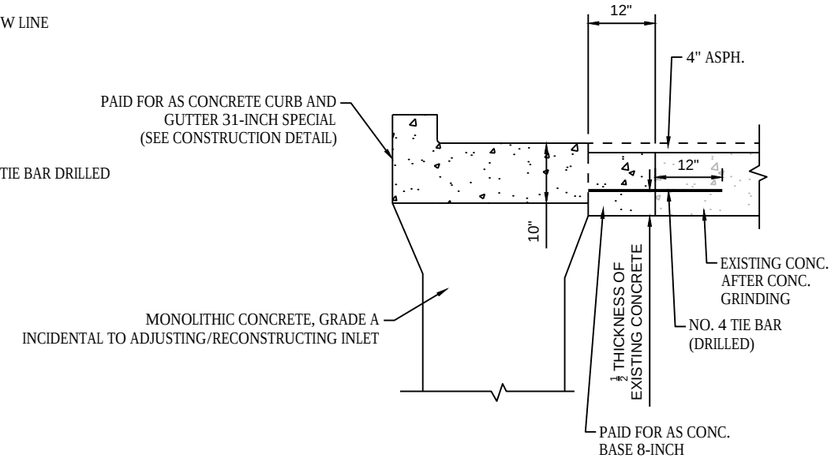
FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021001_CD.DWG
LAYOUT NAME - 04
PLOT DATE : 10/8/2020 2:44 PM
PLOT BY : SCHMIDT, JUDENE M
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



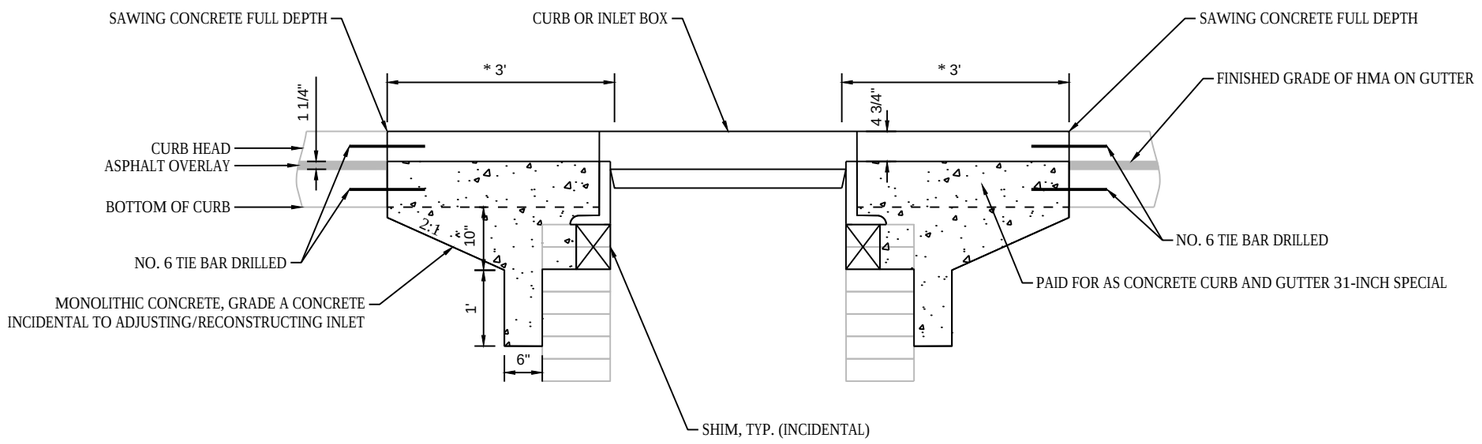
TO BE PAID AS
REMOVING PAVEMENT

* REMOVE 3' CURB & GUTTER MIN.
OR TO THE NEAREST JOINT, 6' MAX.
UNLESS OTHERWISE NOTED.

PLAN VIEW



SECTION B-B



SECTION A-A

ADJUSTING/RECONSTRUCTING INLET DETAIL

GENERAL DRAINAGE STRUCTURE NOTES:

1. WHEN NEW COVERS ARE PLACED, THE FIRST 6" OF ADJUSTMENT OR REPAIRING SHALL BE INCIDENTAL TO THE COST OF THE NEW COVER. WHEN SALVAGED COVERS ARE USED, ANY ADJUSTMENT OR REPAIR OF BRICKWORK BETWEEN 0" AND 12" WILL BE PAID AS ADJUSTING INLET COVERS, AND ANY ADJUSTMENT OR REPAIRS GREATER THAN 12" WILL BE PAID AS RECONSTRUCTING INLETS.

2. WHEN A NEW INLET COVER IS SPECIFIED, BOTH THE FRAME AND GRATE ARE INCLUDED.

3. THE CURB BOX OPENING SHALL BE SEALED BEFORE POURING CONCRETE CURB TO PREVENT CONCRETE FROM ENTERING STRUCTURE.

4. SAWING OF EXISTING CURB AND GUTTER AND PAVEMENT SHALL BE PAID FOR AS "SAWING CONCRETE"

5. LOCATIONS TO BE DETERMINED BY ENGINEER IN THE FIELD.

6. NO. 4 AND NO. 6 DRILLED TIE BARS TO BE PAID AS DRILLED TIE BARS.

2

TO BE PAID AS
REMOVING PAVEMENT

STEP 1

PRIOR TO REMOVING ASPHALT SURFACE:

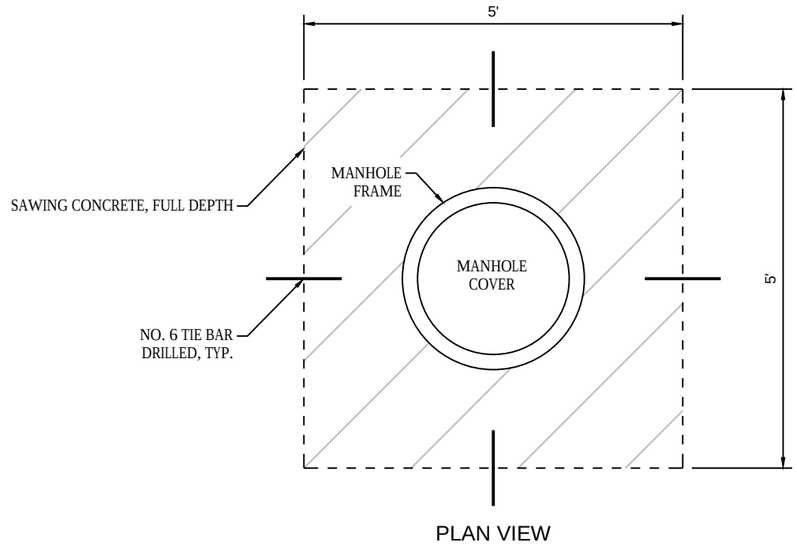
- SAW PAVEMENT FULL DEPTH
- TEMPORARILY REMOVE MANHOLE COVER
- FURNISH AND INSTALL TEMPORARY COVER PLATE
- BACKFILL USING ASPHALTIC SURFACE TEMPORARY

STEP 2

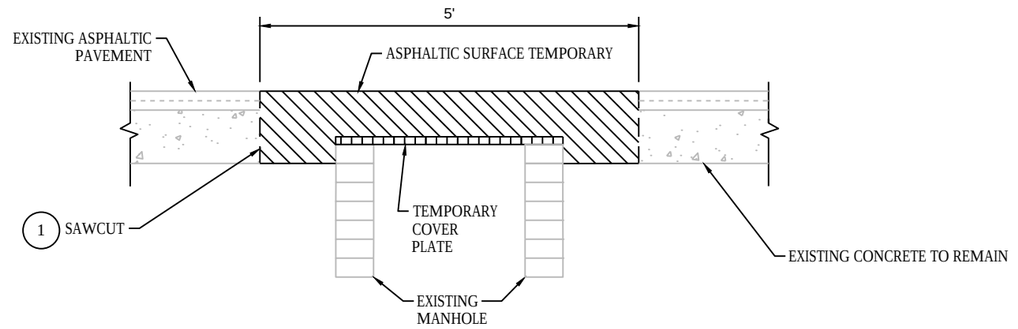
AFTER PAVING LOWER LAYER:

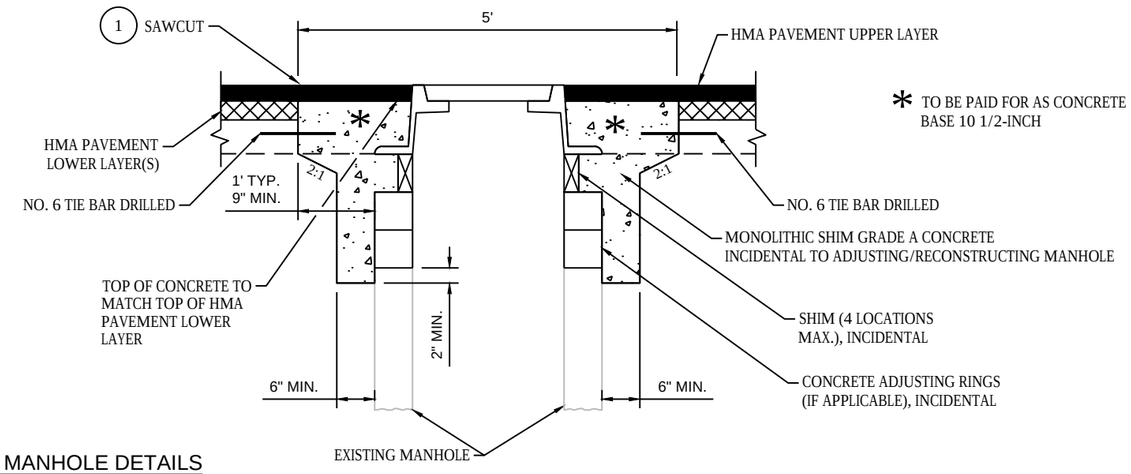
- EXCAVATE AND REMOVE TEMPORARY COVER PLATE
- ADJUST AND REINSTALL MANHOLE FRAME AND COVER USING MONOLITHIC CONCRETE SHIM

ALL WORK EXCEPT SAWING CONCRETE, ASPHALTIC SURFACE TEMPORARY, HMA PAVEMENT UPPER AND LOWER LAYERS, DRILLED TIE BARS, CONCRETE BASE 10 1/2 INCH, AND INSTALLATION AND REMOVAL OF TEMPORARY COVER PLATES IS INCLUDED IN THE COST OF ADJUSTING MANHOLE COVERS.



PLAN VIEW

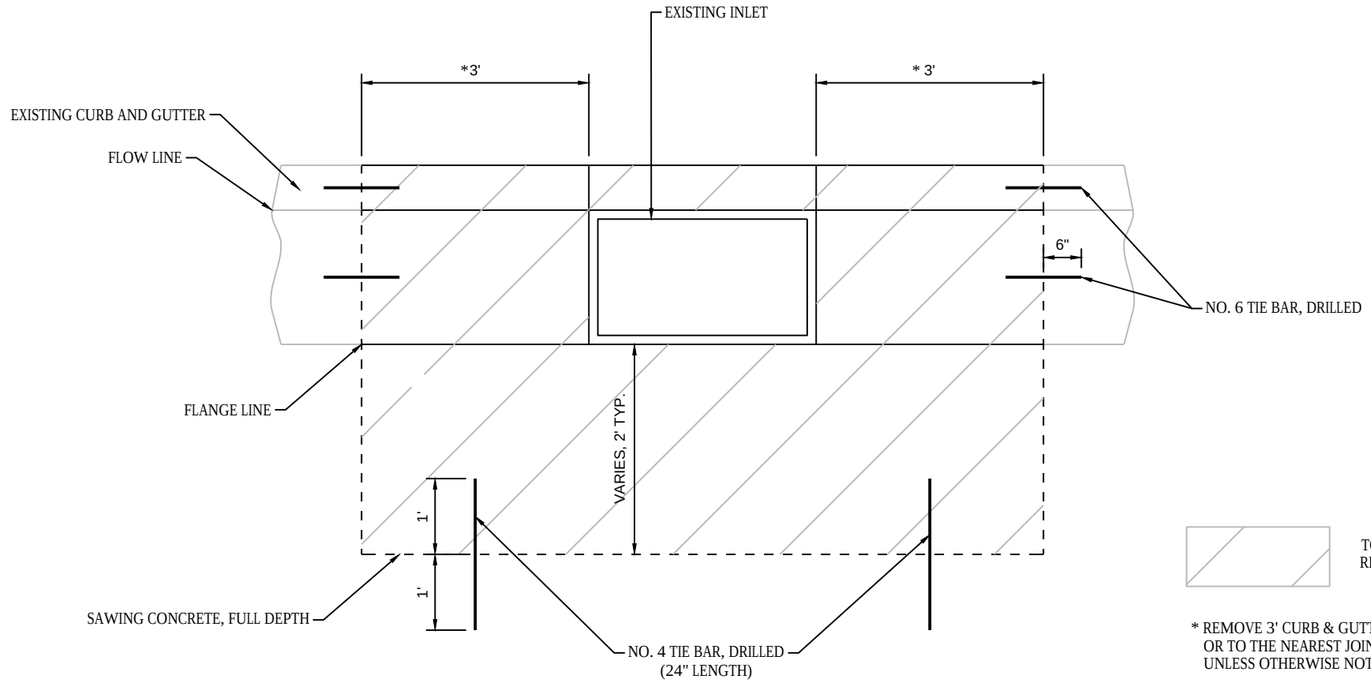




ADJUSTING/RECONSTRUCTING MANHOLE DETAILS

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS	SHEET 12	E

2



CONCRETE PAVEMENT REPLACEMENT AT NEW INLETS

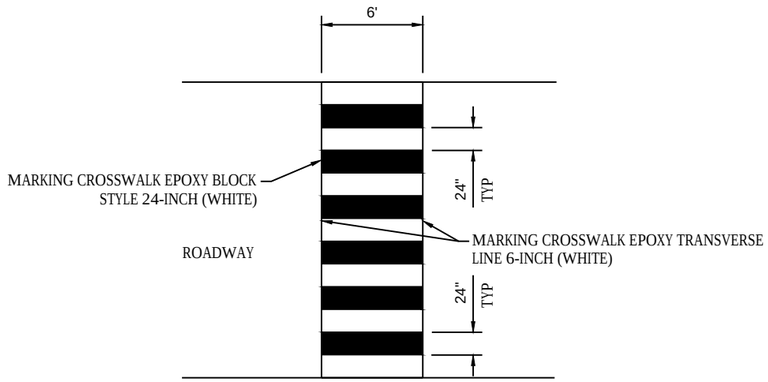
TO BE PAID AS
REMOVING PAVEMENT

* REMOVE 3' CURB & GUTTER MIN.
OR TO THE NEAREST JOINT, 6' MAX.
UNLESS OTHERWISE NOTED.

NOTES:

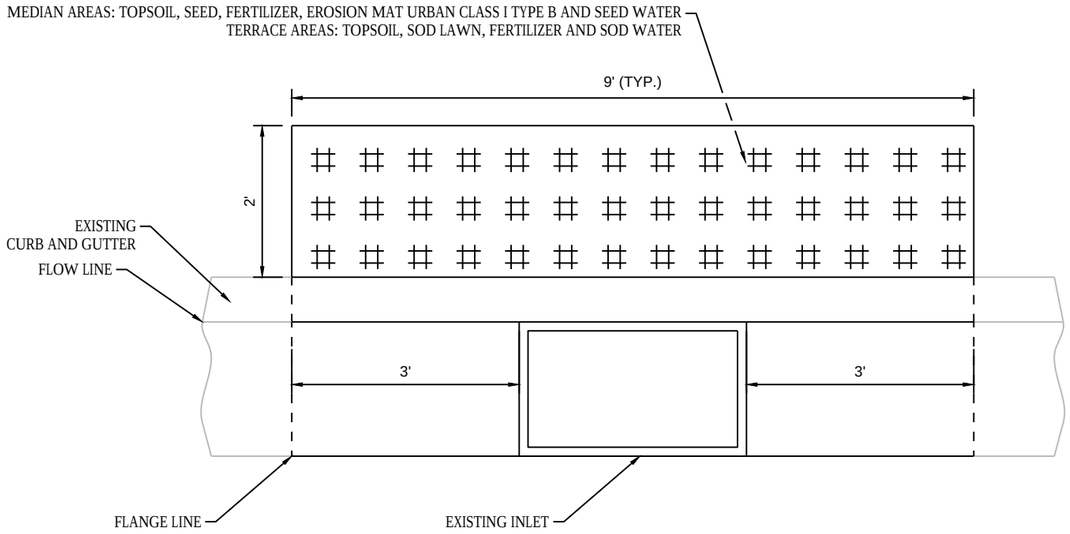
REMOVE PAVEMENT TO THE LIMITS OF EXCAVATION FOR INLET INSTALLATION.

NO. 4 AND NO. 6 TIE BARS AND SAWING CONCRETE TO BE PAID SEPARATELY.

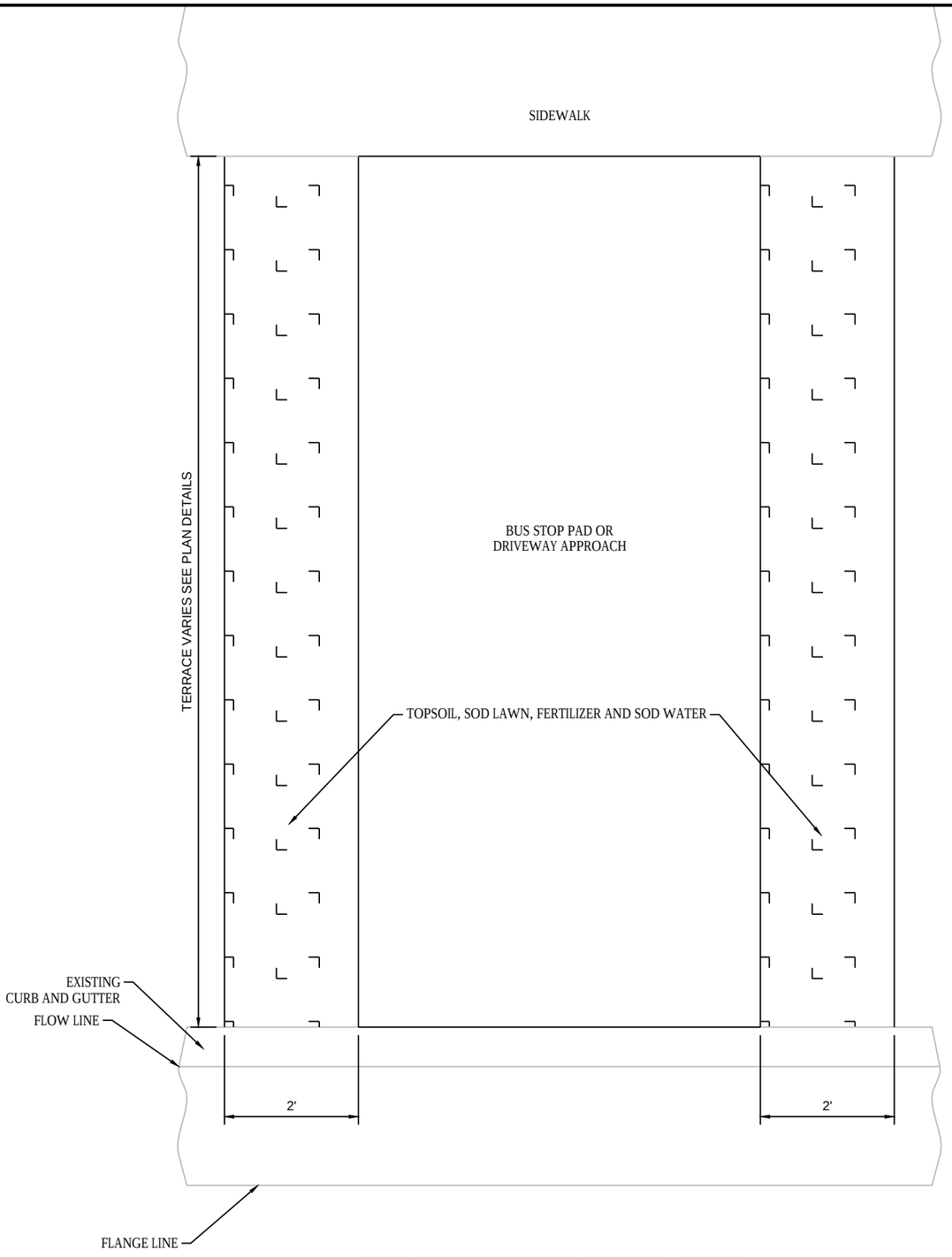


LADDER STYLE CROSSWALK MARKING DETAIL

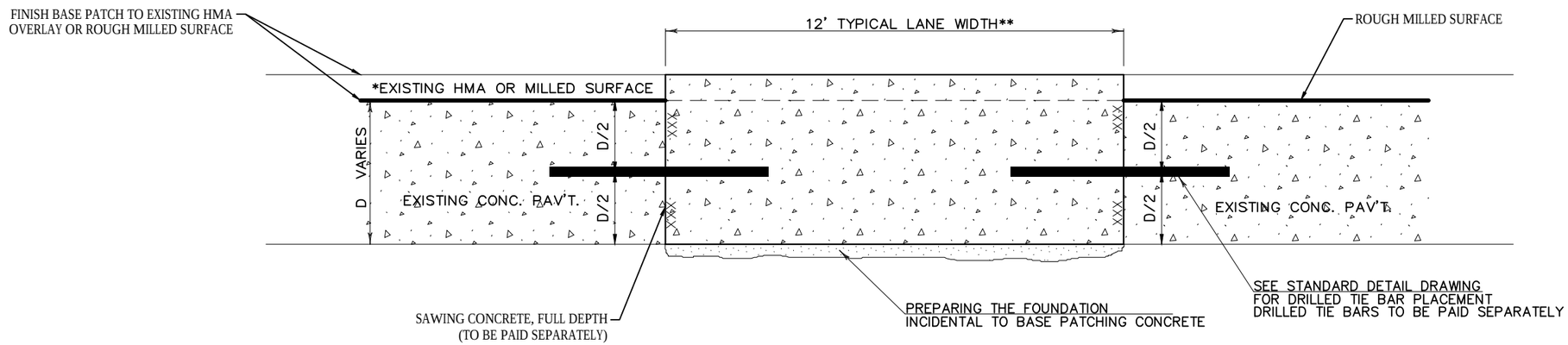
64TH STREET
ARBON DRIVE



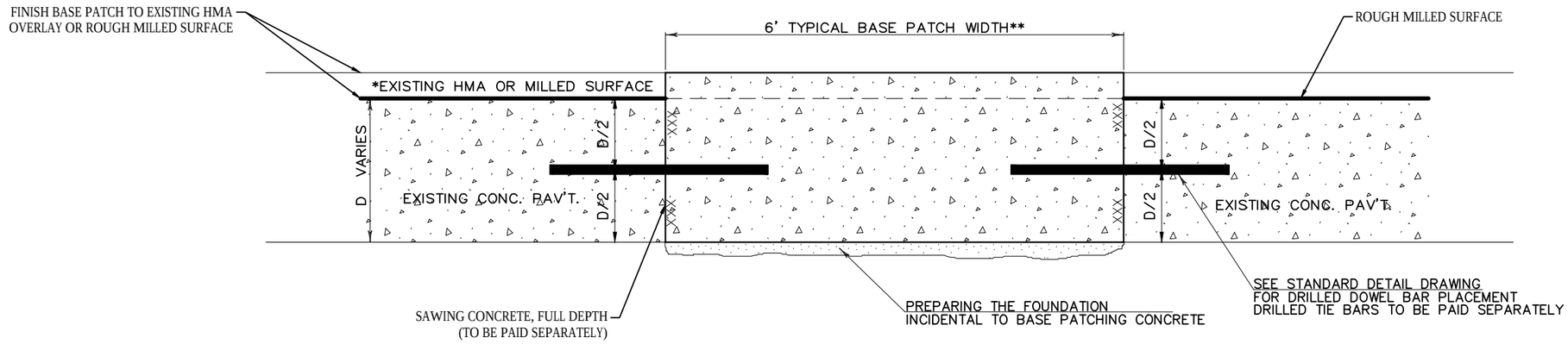
PERMANENT EROSION CONTROL AT INLETS



PERMANENT EROSION CONTROL AT BUS
STOP PAD OR DRIVEWAY APPROACH



BASE PATCHING CONCRETE
CROSS–SECTION VIEW



BASE PATCHING CONCRETE
SIDE VIEW

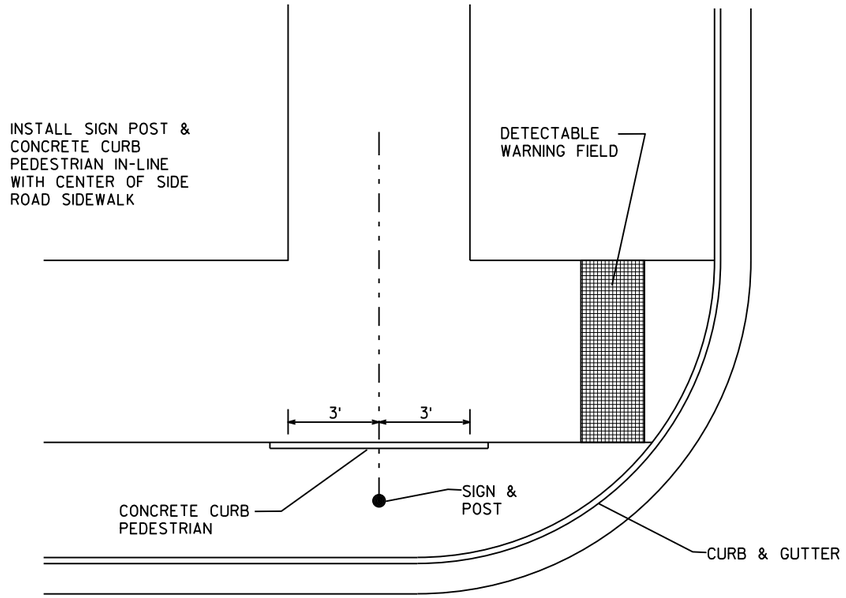
NOTE:

*EXISTING HMA OVERLAY 3" TYPICAL

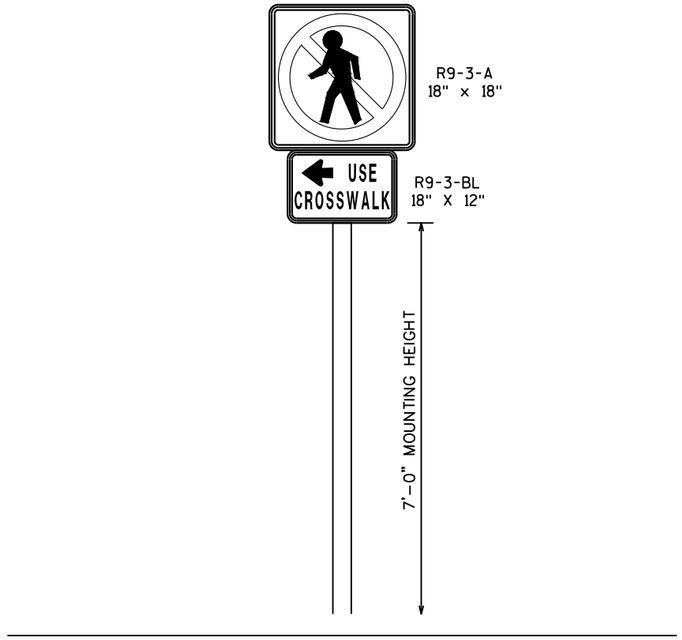
**EXACT LOCATIONS AND DIMENSIONS TO BE MARKED BY THE FIELD ENGINEER

DEPTH OF BASE PATCHING CONCRETE IS EQUAL TO THICKNESS OF EXISTING CONCRETE PAVEMENT PLUS EXISTING ASPHALTIC OVERLAY IF INSTALLED PRIOR TO MILLING

DEPTH OF BASE PATCHING CONCRETE IS EQUAL TO THICKNESS OF EXISTING CONCRETE PAVEMENT IF INSTALLED AFTER MILLING



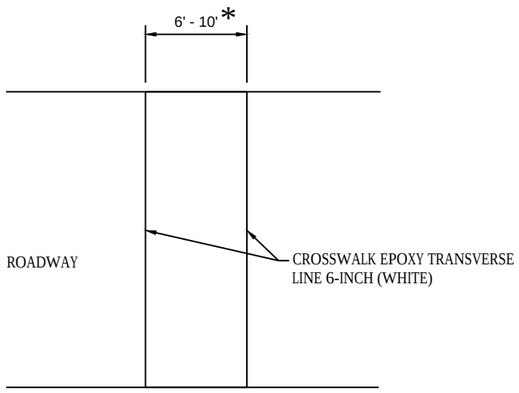
CURB AND SIGN LOCATION DETAIL



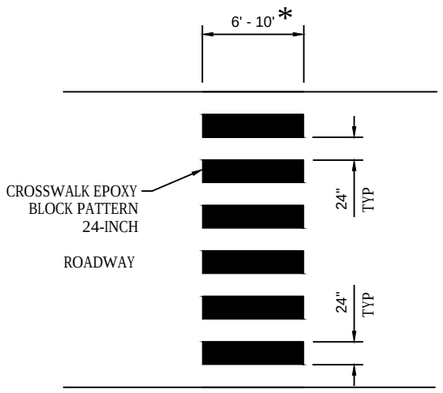
CONCRETE CURB PEDESTRIAN DETAIL
CURB ELEVATION VIEW

PEDESTRIAN BARRIER DETAIL

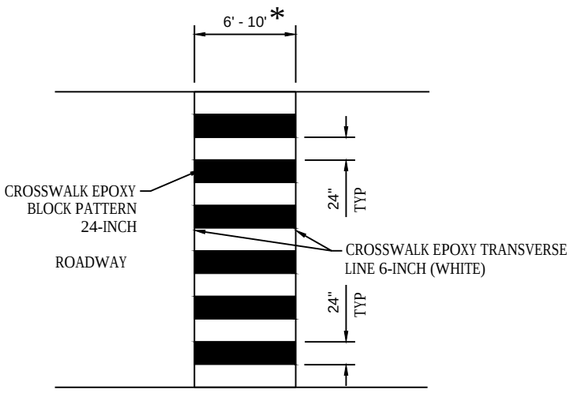
NOT TO SCALE - SEE CURB RAMP CONSTRUCTION DETAILS FOR LOCATIONS



STANDARD CROSSWALK MARKING
TYPICAL DETAIL 1



ZEBRA PATTERN CROSSWALK MARKING
TYPICAL DETAIL 2



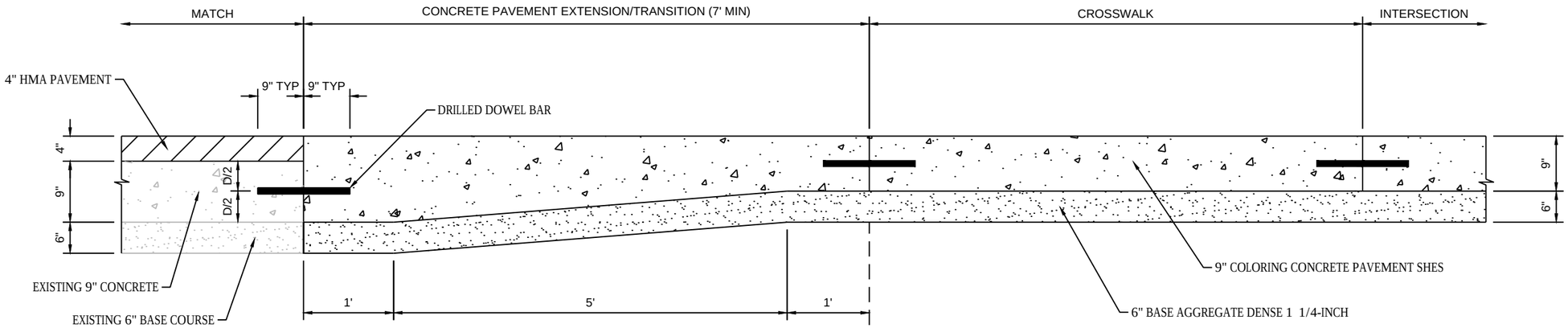
CONTINENTAL CROSSWALK MARKING
TYPICAL DETAIL 3

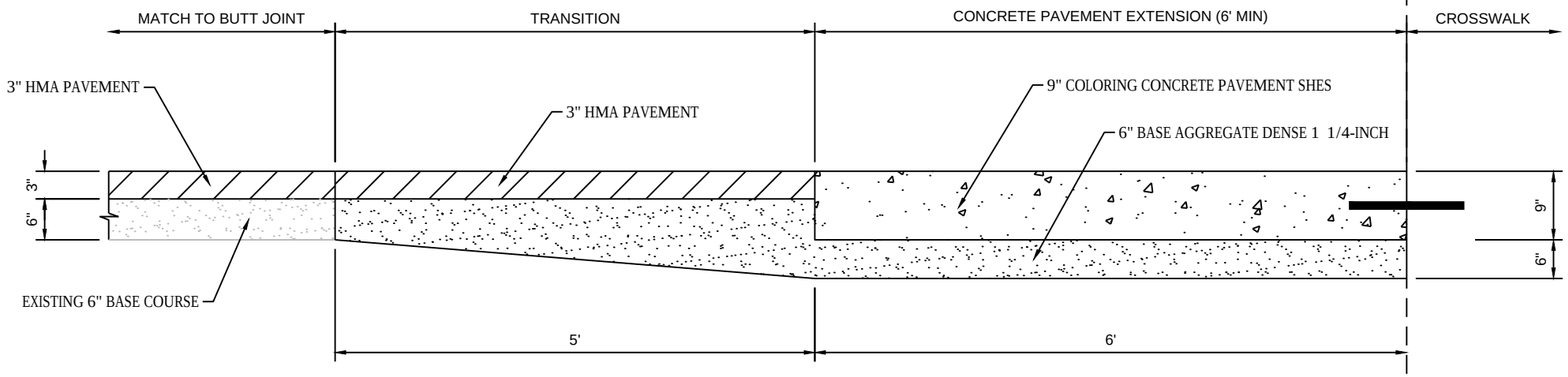
CROSSWALK MARKINGS

* SAME WIDTH OF PATH OR SIDEWALK IT EXTENDS FROM

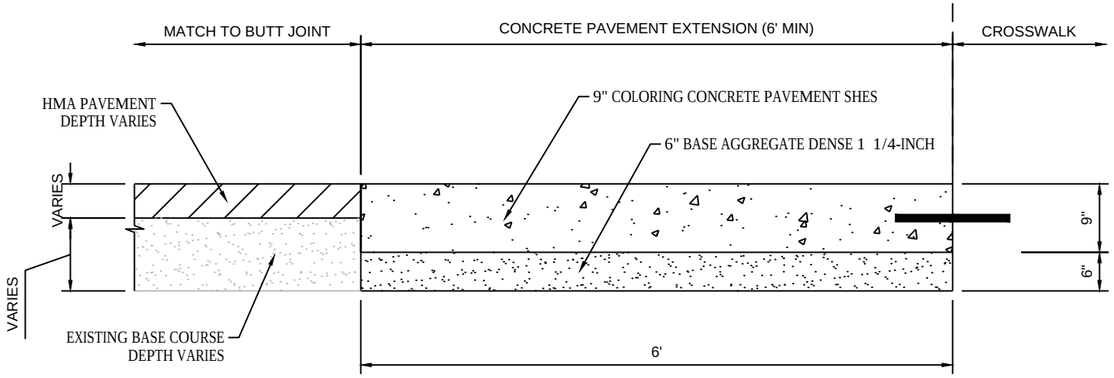
2

MAINLINE





66TH ST/PARK PLAZA CT



60TH ST
51ST ST

SIDEROAD PAVEMENT THICKNESSES

66TH ST/PARK PLAZA CT
- 3 INCHES HMA PAVEMENT
- 6 INCHES CRUSHED AGGREGATE

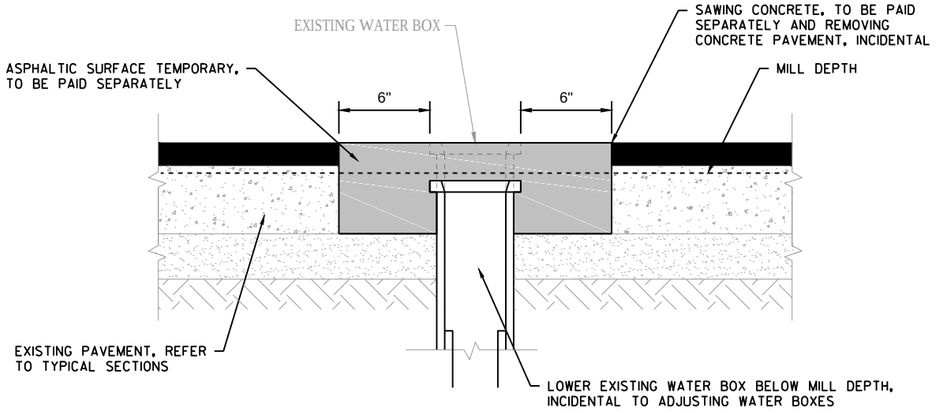
60TH ST
- 5 INCHES HMA PAVEMENT
- 10 INCHES BASE AGGREGATE

51ST ST
- 4 INCHES HMA PAVEMENT
- 9 INCHES BASE AGGREGATE

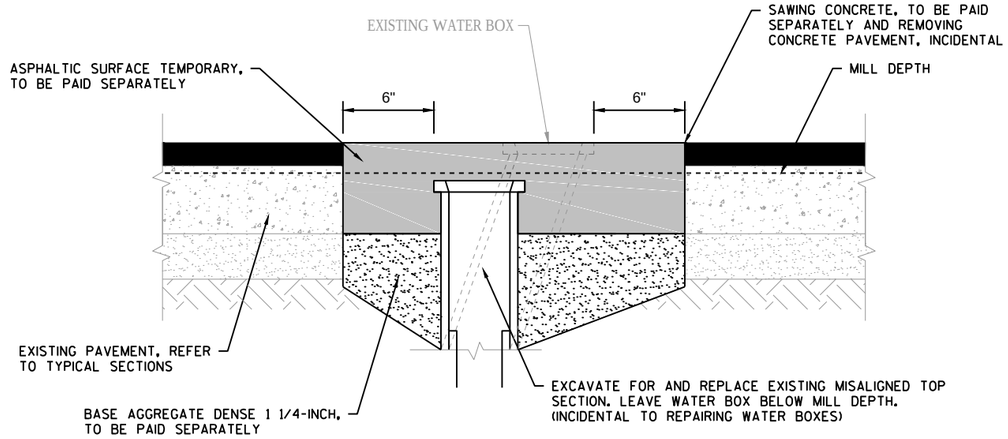
NOTE

SEE PAVING DETAILS FOR INTERSECTION AND CROSSWALK CONCRETE COLOR

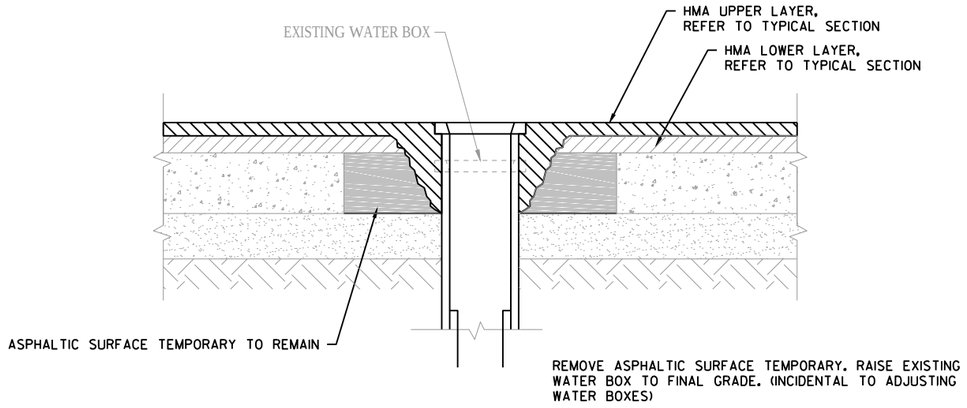
COLORING CONCRETE DETAIL AT MATCH



PRIOR TO MILLING



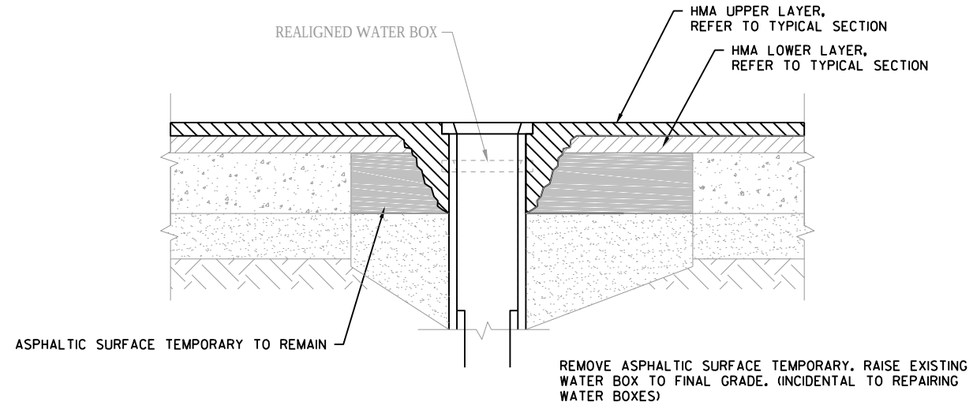
PRIOR TO MILLING



PRIOR TO PAVING UPPER LAYER

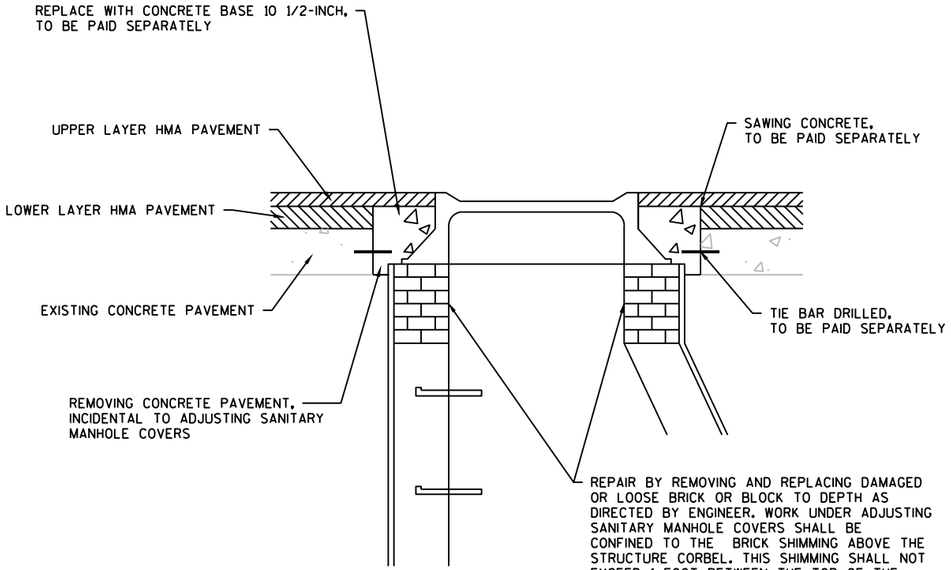
ADJUSTING VILLAGE OF BROWN DEER WATER BOXES

ADJUSTING CITY OF MILWAUKEE WATER BOXES



PRIOR TO PAVING UPPER LAYER

REPAIRING VILLAGE OF BROWN DEER WATER BOXES

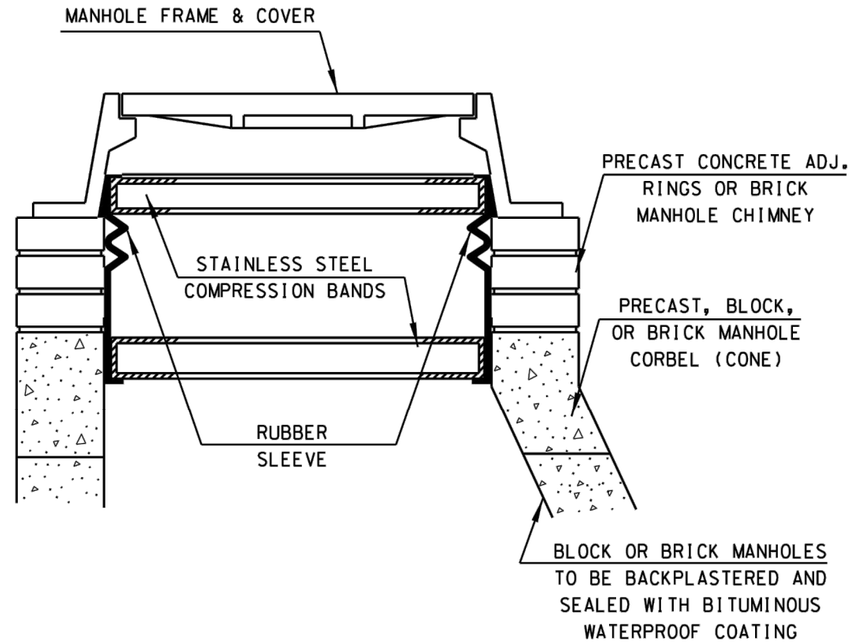


NOTES

SEE ADJUSTING/RECONSTRUCTING MANHOLES DETAIL FOR STAGING WITH TEMPORARY COVER PLATES

ADJUSTING CITY OF MILWAUKEE SANITARY MANHOLE COVERS

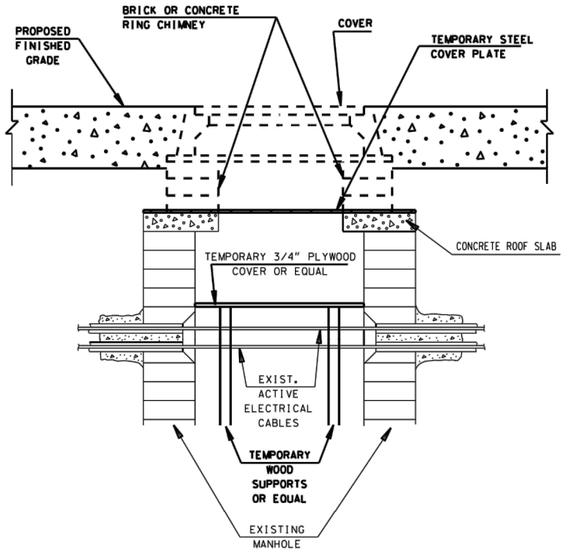
ADJUSTING VILLAGE OF BROWN DEER SANITARY MANHOLE COVERS



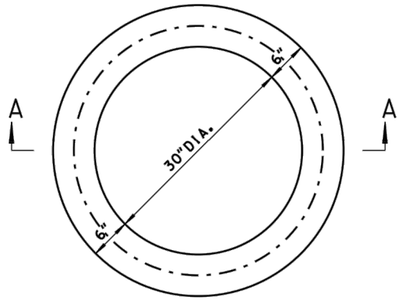
CITY OF MILWAUKEE INTERNAL SANITARY MANHOLE SEALS

VILLAGE OF BROWN DEER EXTERNAL SANITARY MANHOLE SEALS

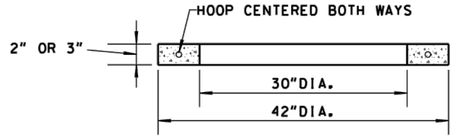
2



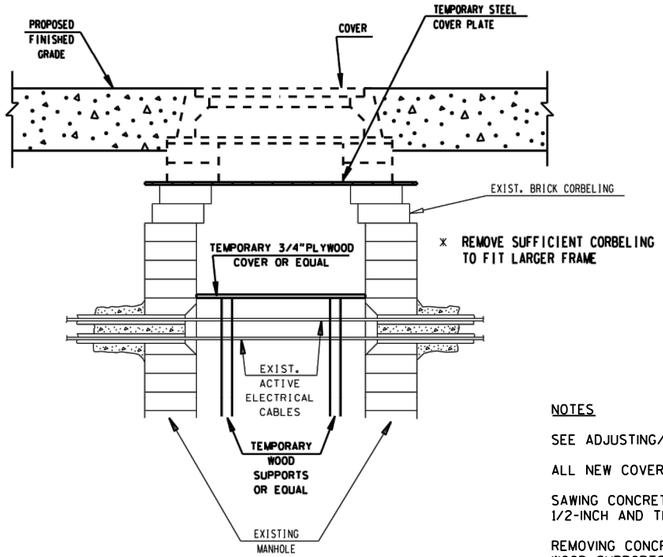
BLOCK OR PRECAST MANHOLE



PLAN



SECTION A-A



BRICK ROUND MANHOLE

THE ADJUSTING RING SHALL BE 2" OR 3" IN HEIGHT.

THE CIRCUMFERENTIAL STEEL SHALL BE CENTERED WITHIN THE RING.

AREA OF CIRCUMFERENTIAL STEEL = 0.07 SQUARE INCH PER VERTICAL FOOT WITH A MINIMUM OF 0.024 SQUARE INCH IN ANY ONE RING.

THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE CORE SHALL BE 4000 PSI.

CONCRETE ADJUSTING RING

NOTES

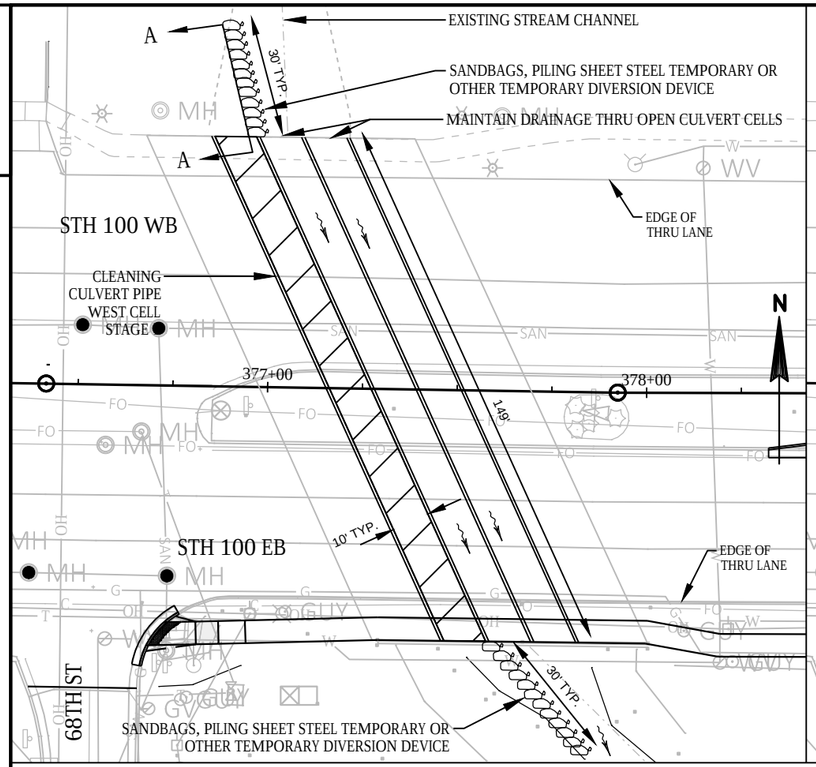
SEE ADJUSTING/RECONSTRUCTING MANHOLES DETAIL FOR STAGING WITH TEMPORARY COVER PLATES.

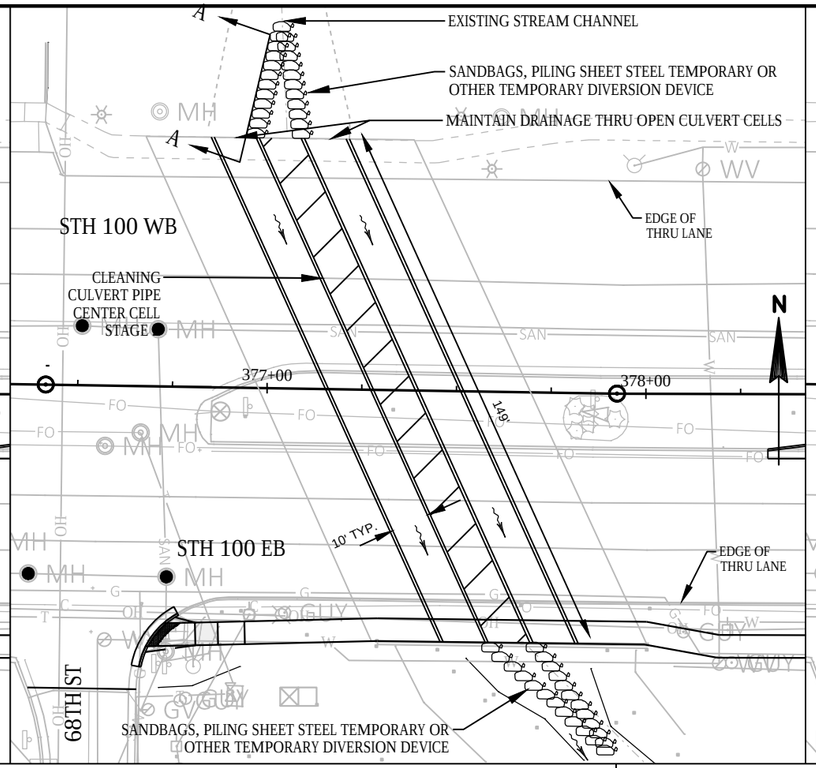
ALL NEW COVERS AND FRAMES TO BE PROVIDED BY THE CITY OF MILWAUKEE.

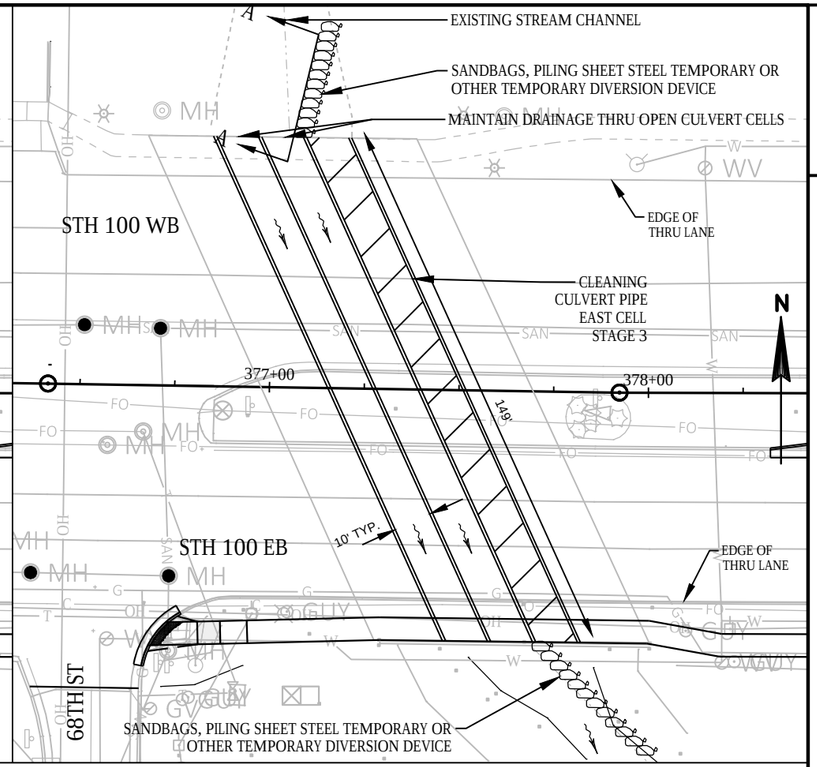
SAWING CONCRETE, COVER PLATES TEMPORARY, ASPHALTIC SURFACE TEMPORARY, CONCRETE BASE 10 1/2-INCH AND TIE BARS DRILLED TO BE PAID SEPARATELY.

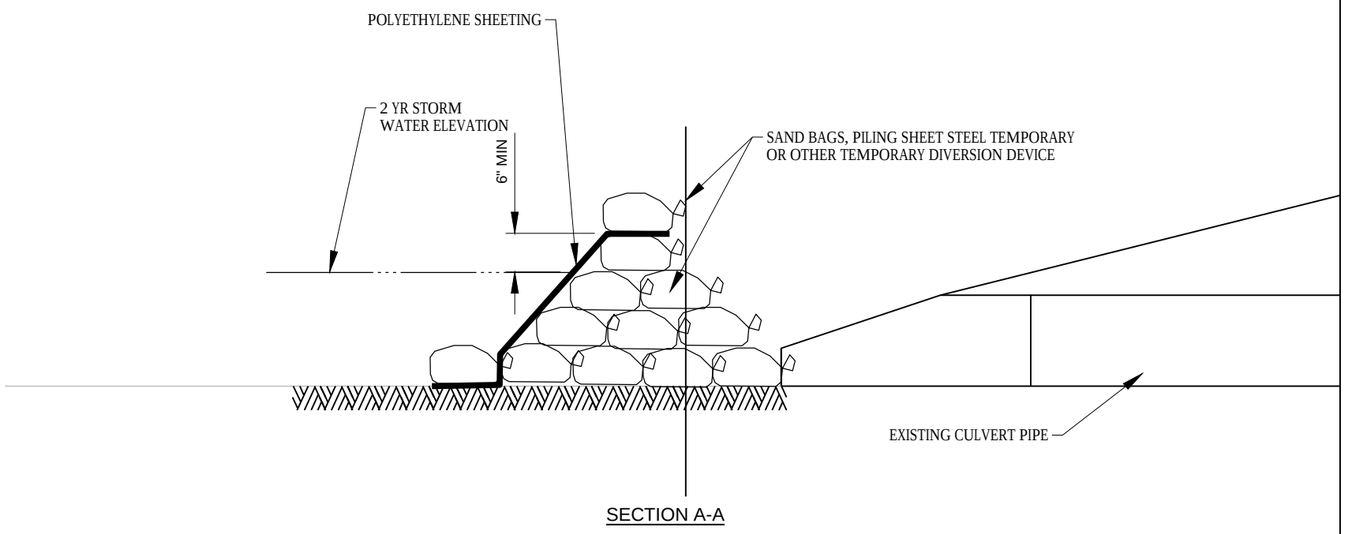
REMOVING CONCRETE PAVEMENT, CONCRETE ADJUSTING RINGS, TEMP 3/4-INCH PLYWOOD COVER AND TEMP WOOD SUPPORTS INCIDENTAL TO ADJUSTING CUC MANHOLE COVERS.

ADJUSTING CUC MANHOLE COVERS









SECTION A-A

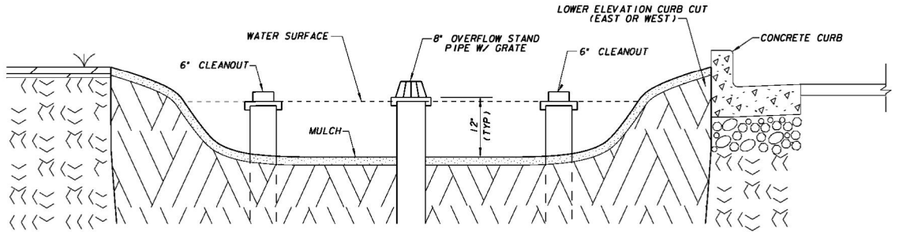
NOTES:
1. CONTRACTOR TO SUBMIT DESIGN FOR MAINTAINING TEMPORARY DRAINAGE DURING CONSTRUCTION AS PART OF THE EROSION CONTROL IMPLEMENTATION PLAN (ECIP).
2. PAYMENT SHALL BE THROUGH THE SPV ITEM FOR MAINTAINING TEMPORARY DRAINAGE.
3. DETAIL SHOWN ON THIS SHEET IS FOR REFERENCE ONLY TO SHOW ONE POTENTIAL METHOD OF MAINTAINING TEMPORARY DRAINAGE.
4. METHOD OF MAINTAINING TEMPORARY DRAINAGE SHALL BE DESIGNED FOR THE 2-YEAR 24-HOUR STORM.
5. METHOD OF MAINTAINING TEMPORARY DRAINAGE MAY INCLUDE PILING SHEET STEEL TEMPORARY TO BE DETERMINED BY THE CONTRACTOR.
6. IF BYPASS PUMPING IS USED A BACKUP PUMP SHALL BE ON-SITE AT ALL TIMES.
7. ANY WATER THAT IS PUMPED SHALL BE DISCHARGED INTO A SEDIMENT BASIN OR FILTER BAG. THE SIZE OF THAT BASIN OR BAG SHALL BE DESIGNED BY THE CONTRACTOR AS PART OF THE ECIP.
8. FILTER BAGS, POLYETHYLENE SHEETING AND SAND BAGS ARE INCIDENTAL TO MAINTAINING TEMPORARY DRAINAGE.
9. DO NOT DISTURB WETLANDS.

CLEANING BOX CULVERT B-40-409

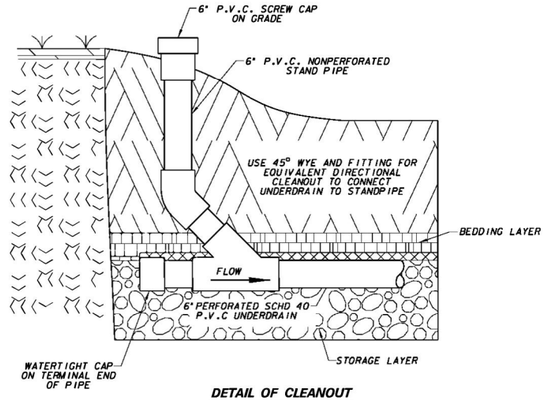
CONSTRUCTION STAGING PLAN

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CLEANING BOX CULVERT STAGING	SHEET 21	E

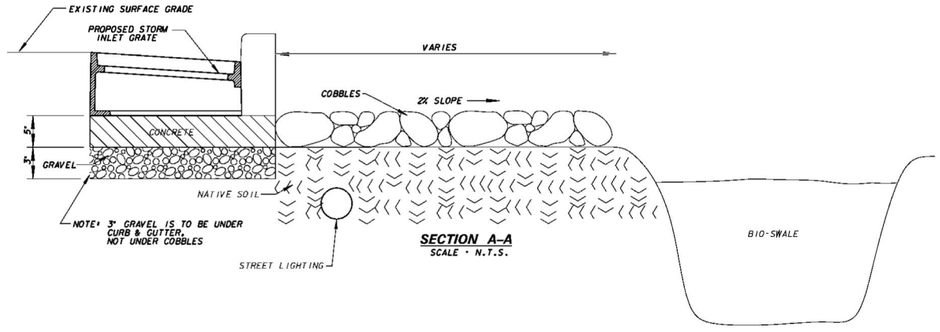
BIO-SWALE DETAILS



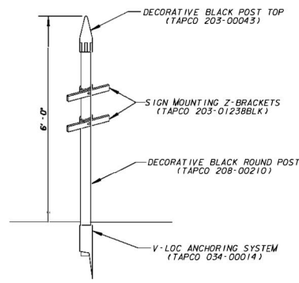
DETAIL OF 8" OVERFLOW STAND PIPE
SCALE · N.T.S.



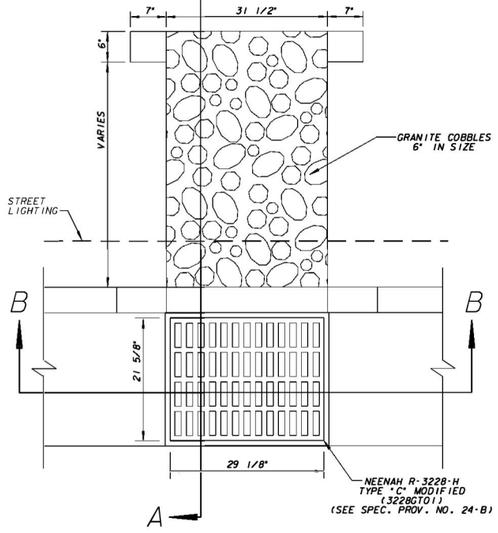
DETAIL OF CLEANOUT
SCALE · N.T.S.



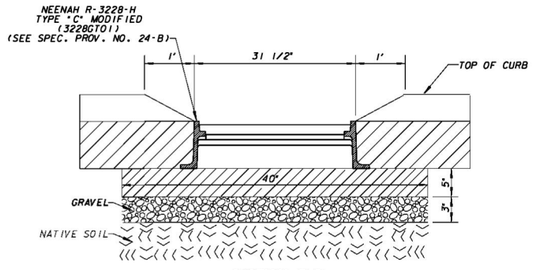
SECTION A-A
SCALE · N.T.S.



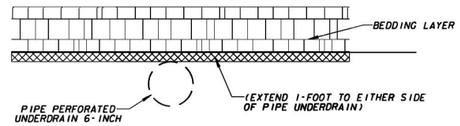
DETAIL OF INFORMATIONAL SIGN
SCALE · N.T.S.



STORM CURB INLET WITH GRATE TYPE "A"
SCALE · N.T.S.



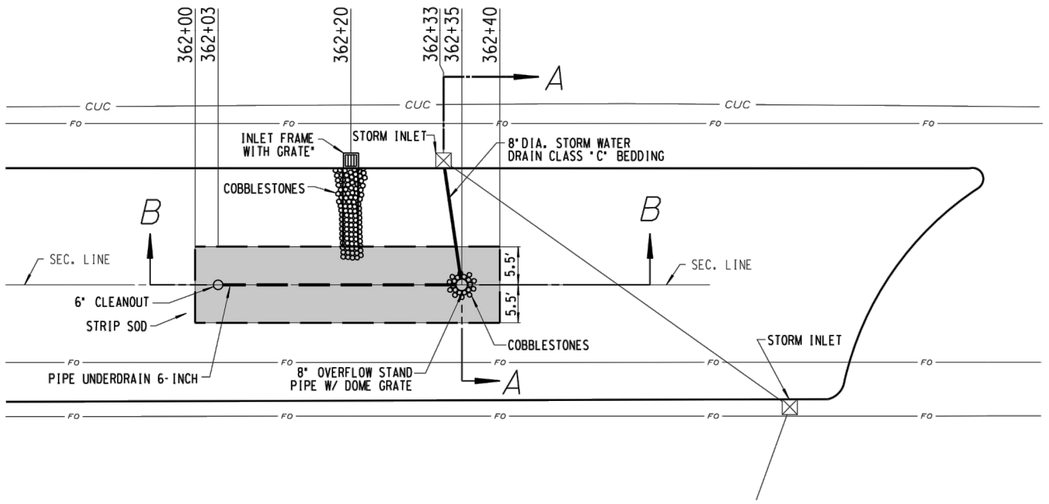
SECTION B-B
SCALE · N.T.S.



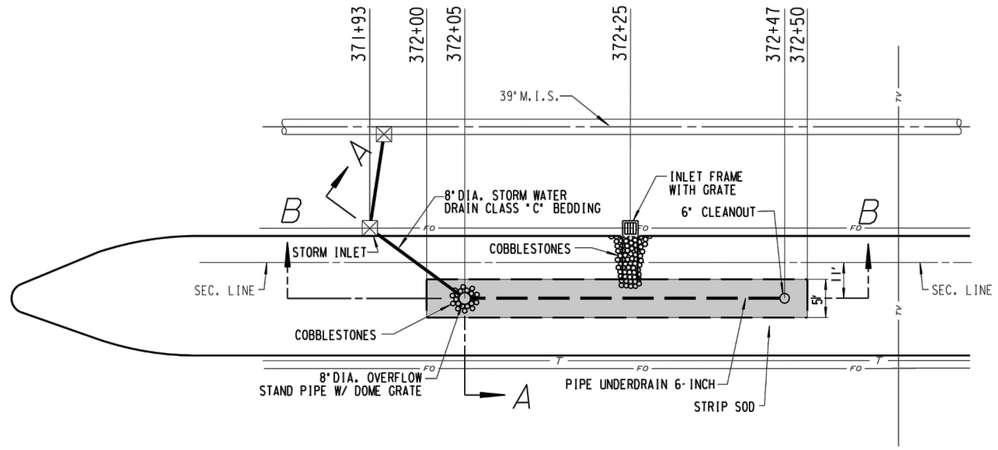
DETAIL OF GEOTEXTILE FABRIC
SCALE · N.T.S.

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - BIOSWALE DETAILS	SHEET 22	E

BIO-SWALE NO. 1



BIO-SWALE NO. 2



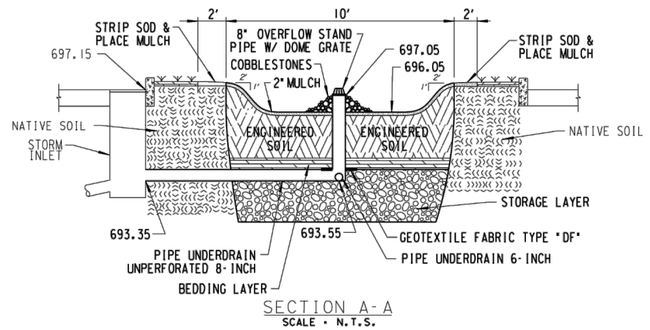
N

NOTES

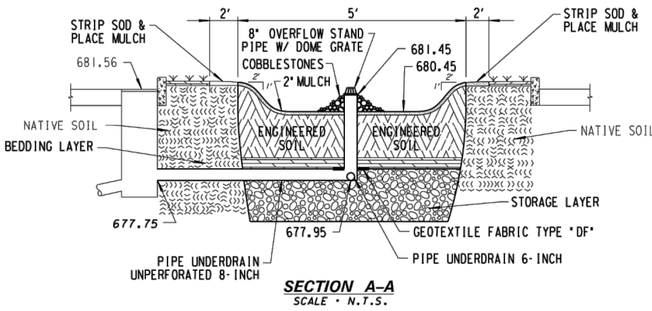
REMOVE CURB AND GUTTER 3 FEET EITHER SIDE OF INLET FRAME WITH GRATE. TO BE PAID AS REMOVING CURB AND GUTTER. REPLACE WITH CONCRETE CURB AND GUTTER 31-INCH SPECIAL.

REPLACE ANY DISTURBED AREAS WITH TOPSOIL, FERTILIZER TYPE B, SEEDING MIXTURE NO. 40, SEED WATER AND EROSION MAT URBAN CLASS 1 TYPE B. TO BE PAID SEPARATELY UNDER THE RESPECTIVE CONTRACT BID ITEMS.

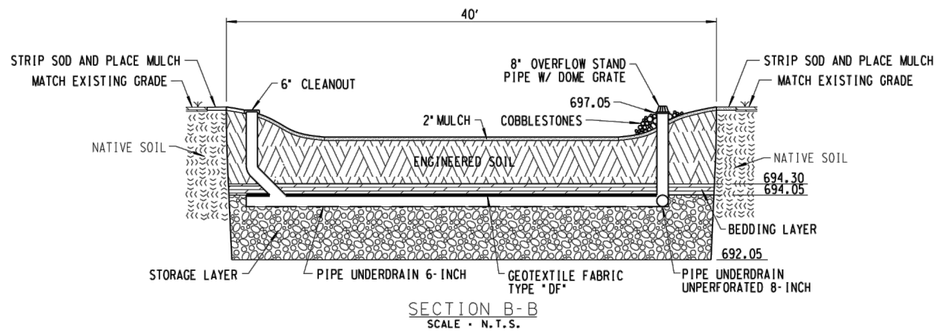
THE LOCATION OF THE INFORMATIONAL SIGN POST TO BE DETERMINED BY THE ENGINEER.



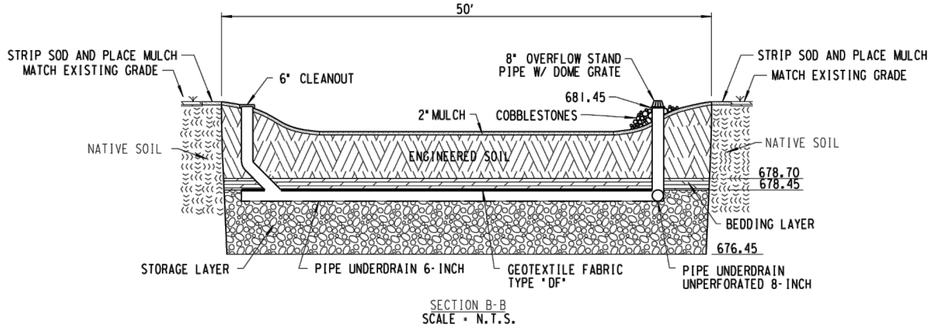
SECTION A-A
SCALE • N.T.S.



SECTION A–A
SCALE • N.T.S.



SECTION B-B
SCALE • N.T.S.

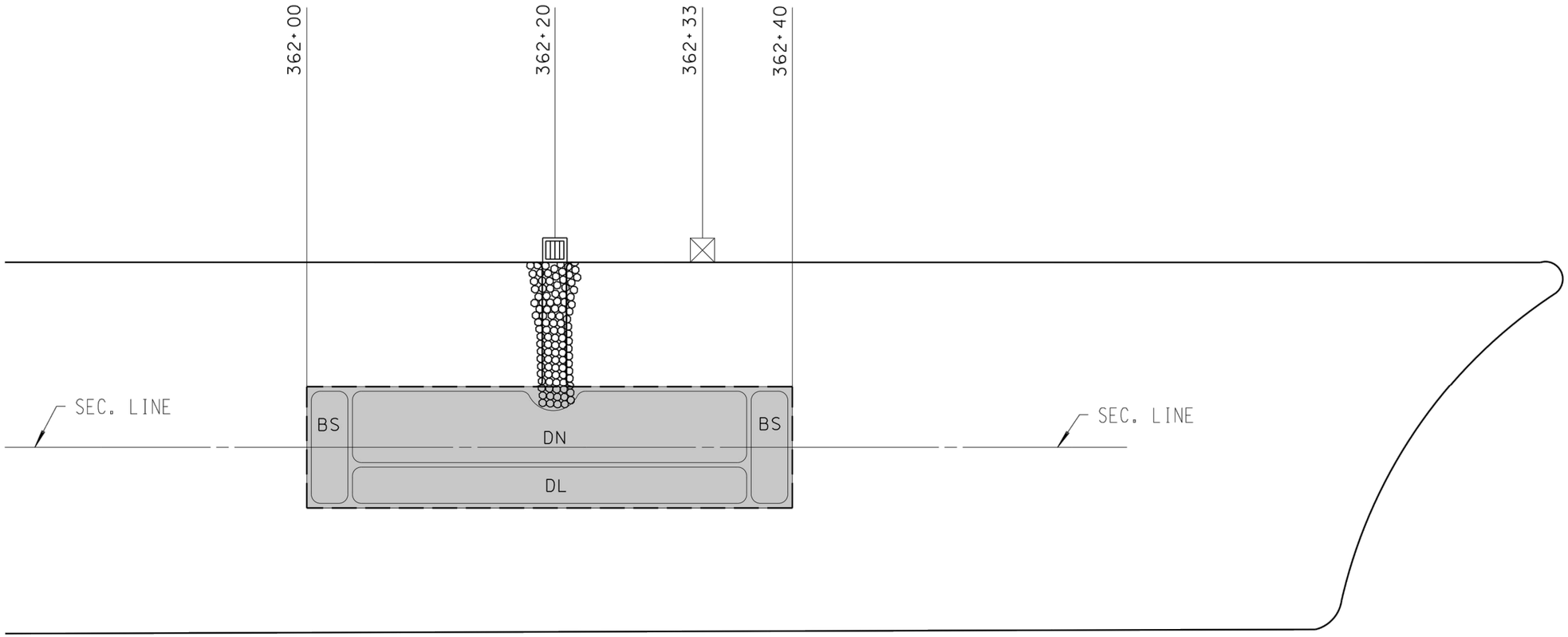


SECTION B-B
SCALE • N.T.S.

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - BIOSWALE DETAILS	SHEET 23	E

BIO-SWALE NO. 1

WEST BROWN DEER ROAD



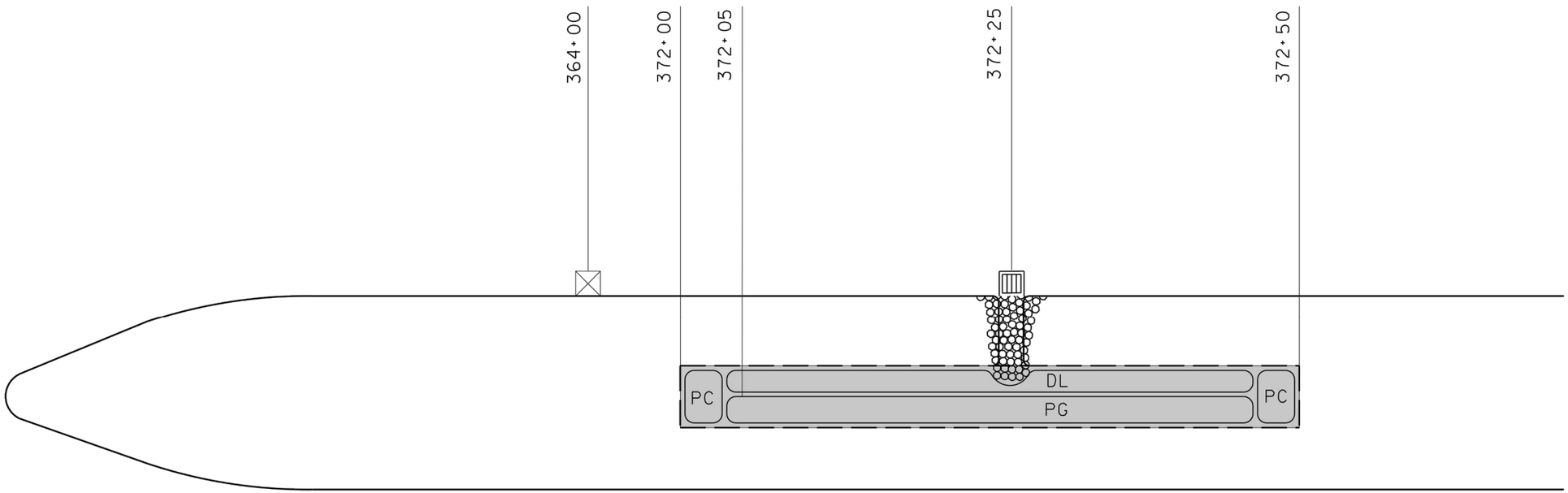
PERENNIALS, GRASS, AND BULBS

(24)	BS	BLACK-EYED SUSAN
(5)	DN	DIABLO NINEBARK - "SUMMER WINE"
(24)	DL	DAYLILIES

BIO-SWALE NO. 2

WEST BROWN DEER ROAD

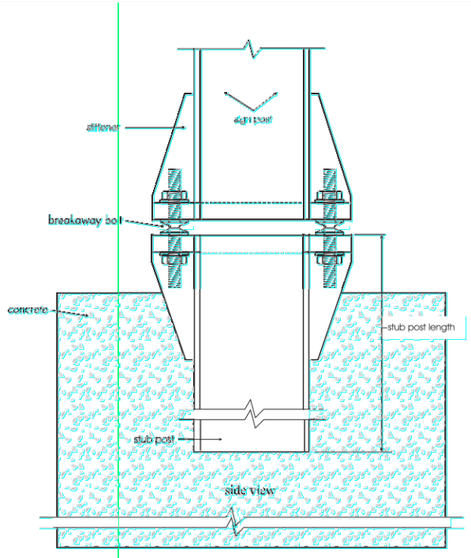
N



PERENNIALS, GRASS, AND BULBS

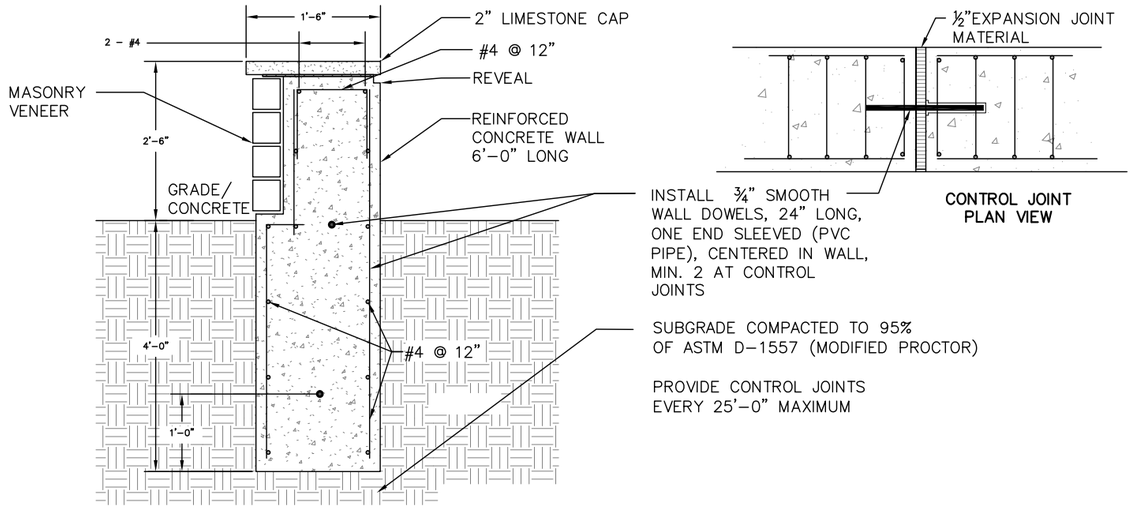
(24)	PC	PURPLE CONELOWER
(5)	DL	DAYLILIES
(7)	PG	PANICUM GRASS





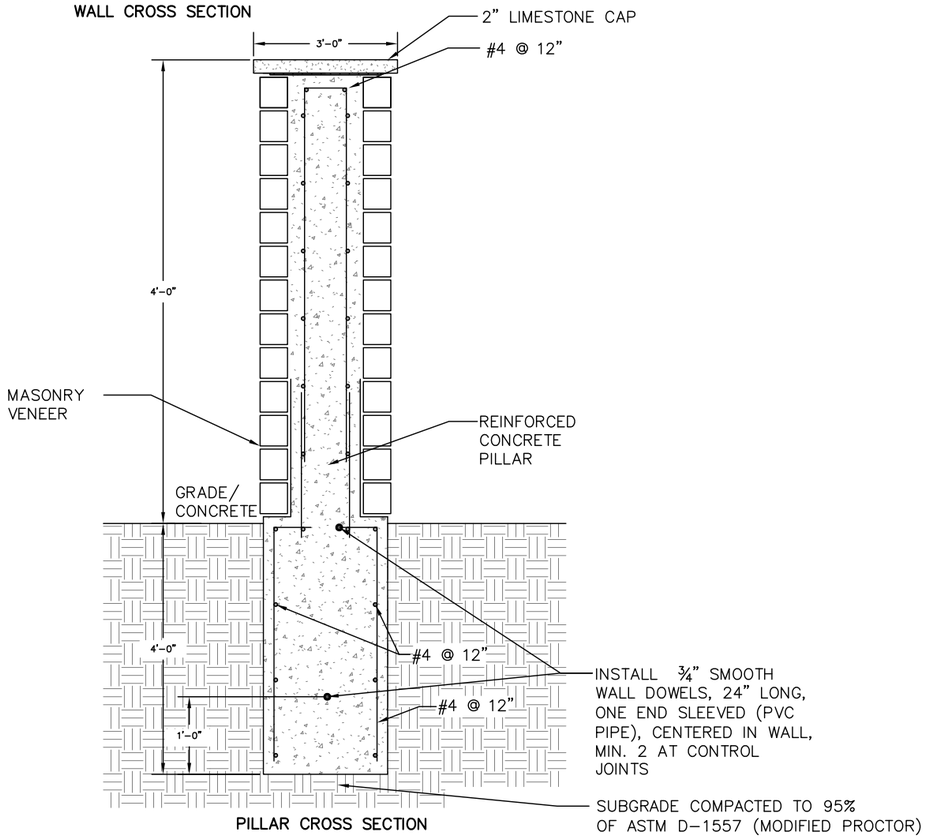
BREAKAWAY POST MOUNTING

1 EXISTING MUNICIPAL MONUMENT SIGN
N.T.S.

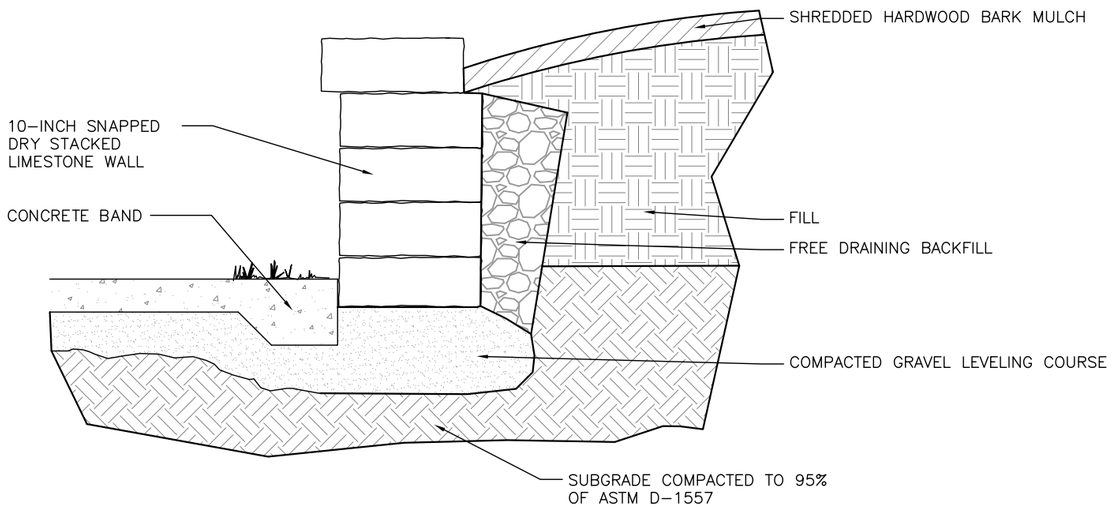


WALL CROSS SECTION

CONTROL JOINT PLAN VIEW

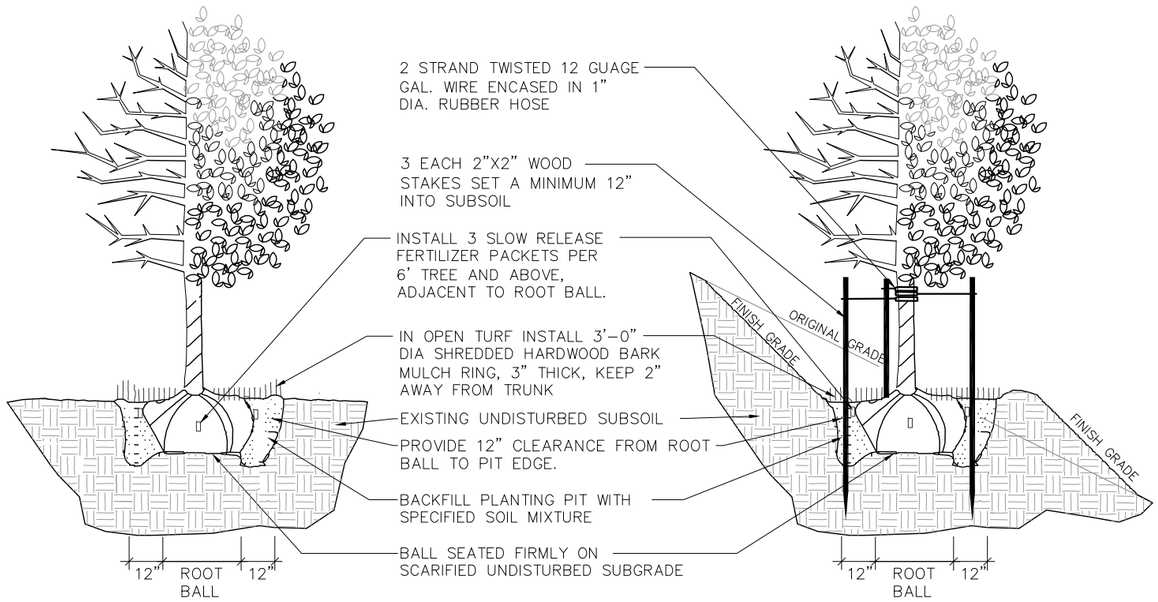


PILLAR CROSS SECTION

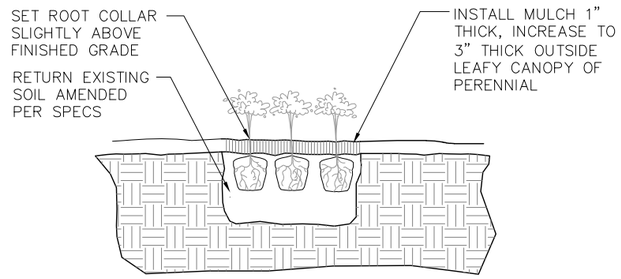


2 10-INCH SNAPPED LIMESTONE WALL
N.T.S.

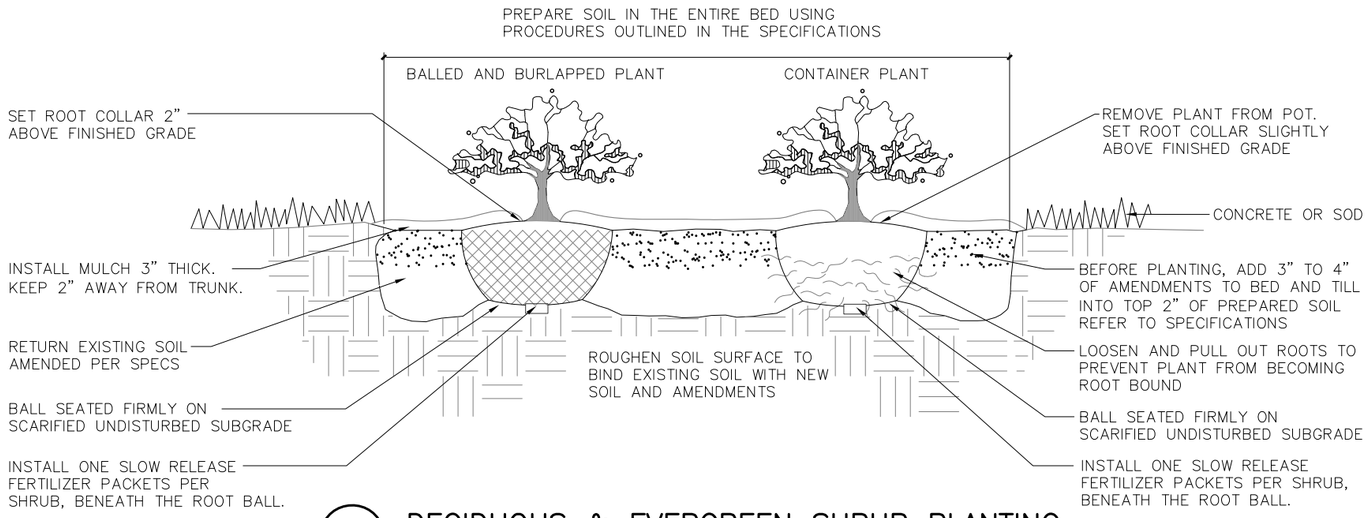
3 MASONRY WALL AND PILLAR DETAIL
N.T.S.



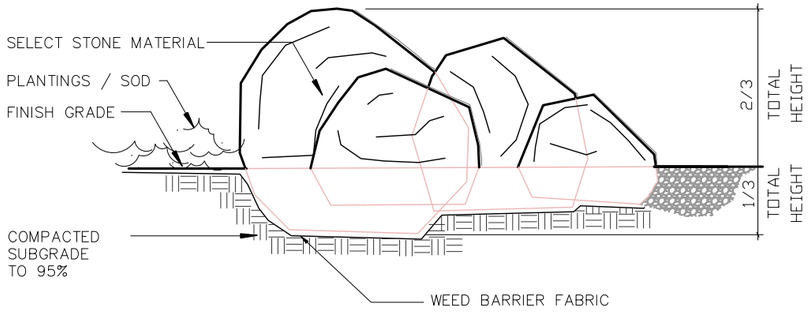
4 DECIDUOUS TREE PLANTING, STAKING, & PLANTING ON A SLOPE
N.T.S.



5 PERENNIAL PLANTING
N.T.S.

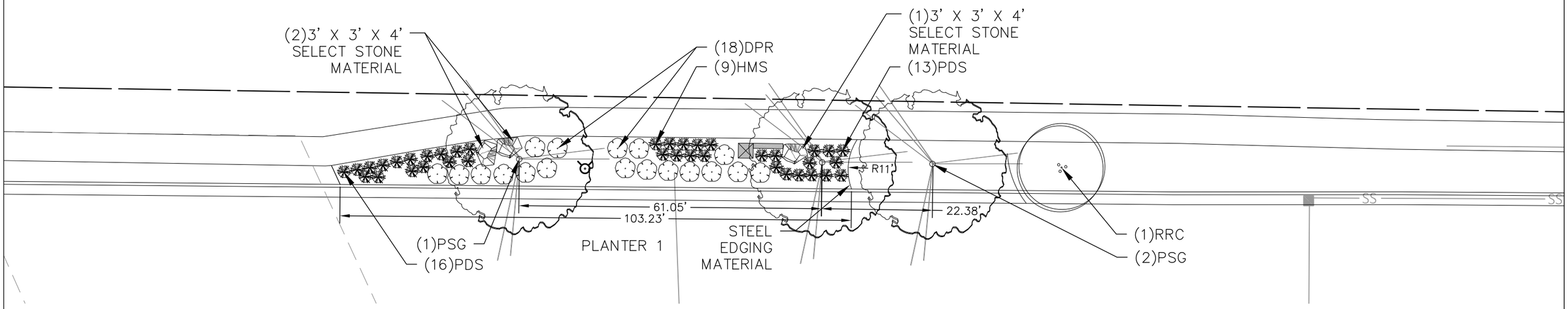


6 DECIDUOUS & EVERGREEN SHRUB PLANTING
N.T.S.



7 SELECT STONE MATERIAL 3'X3'X4'
N.T.S.

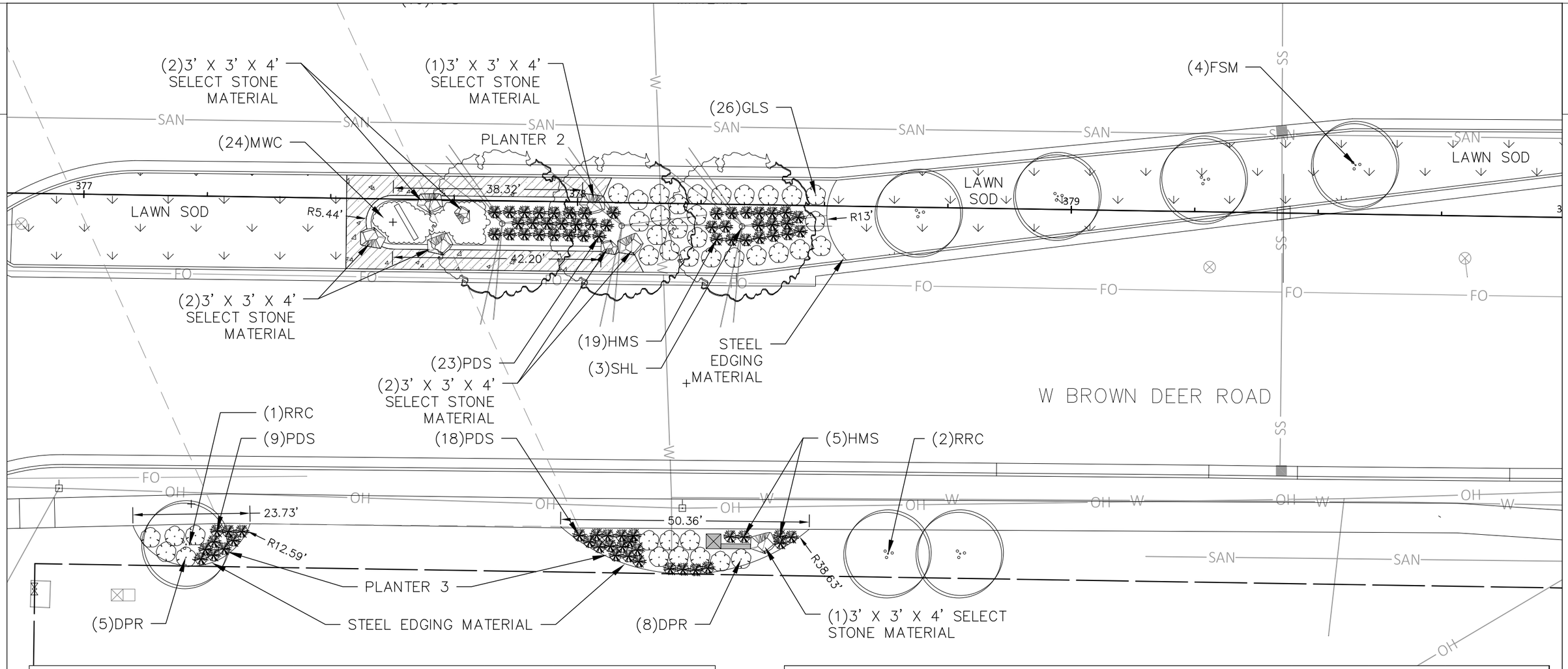
2



Plant Schedule - Planter 1

Scientific Name		Common Name	Quantity	Spacing	Install Size
Deciduous Trees:					
PSG	Ginkgi biloba 'Princeton Sentry'	Princeton Sentry Ginkgo	3	Per Plan	2" caliper B&B
RRC	Malus 'Royal Raindrops'	Royal Raindrops Crabapple	1	Per Plan	2" caliper B&B
Deciduous Shrubs:					
DPR	Rosa rugosa 'Dwarf Pavement'	Dwarf Pavement Rose	18	4'-0" o.c.	#2 cont.
Perennials					
HMS	Panicum virgatum 'Heavy Metal'	Heavy Metal Switch Grass	19	3'-0" o.c.	#1 cont.
PDS	Sporobulus heterolepsis	Prairie Dropseed	29	3'-0" o.c.	#1 cont.

NOTE: Installation contractor is responsible for verifying plant count from plan. Plan quantities take precedence over list.



Plant Schedule - Planter 2

	Scientific Name	Common Name	Quantity	Spacing	Install Size
Deciduous Trees:					
FSM	Carpinus caroliniana 'J.N. Upright'	Firespire Musclewood	4	30'-0" o.c.	2.5" caliper B&B
SHL	Gleditsia triacanthos 'Shademaster'	Shademaster Honeylocust	3	24'-6" o.c.	2.5" caliper B&B
Deciduous Shrubs:					
GLS	Rhus aromatica 'Gro-Low"	Gro Low Sumac	26	4'-9" o.c.	#2 cont.
Perennials					
HMS	Panicum virgatum 'Heavy Metal'	Heavy Metal Switch Grass	19	3'-0" o.c.	#1 cont.
MWC	Calamintha nepeta 'Montrose White'	Montrose White Catmint	24	1'-8" o.c.	#1 cont.
PDS	Sporobulus heterolepsis	Prairie Dropseed	23	3'-0" o.c.	#1 cont.

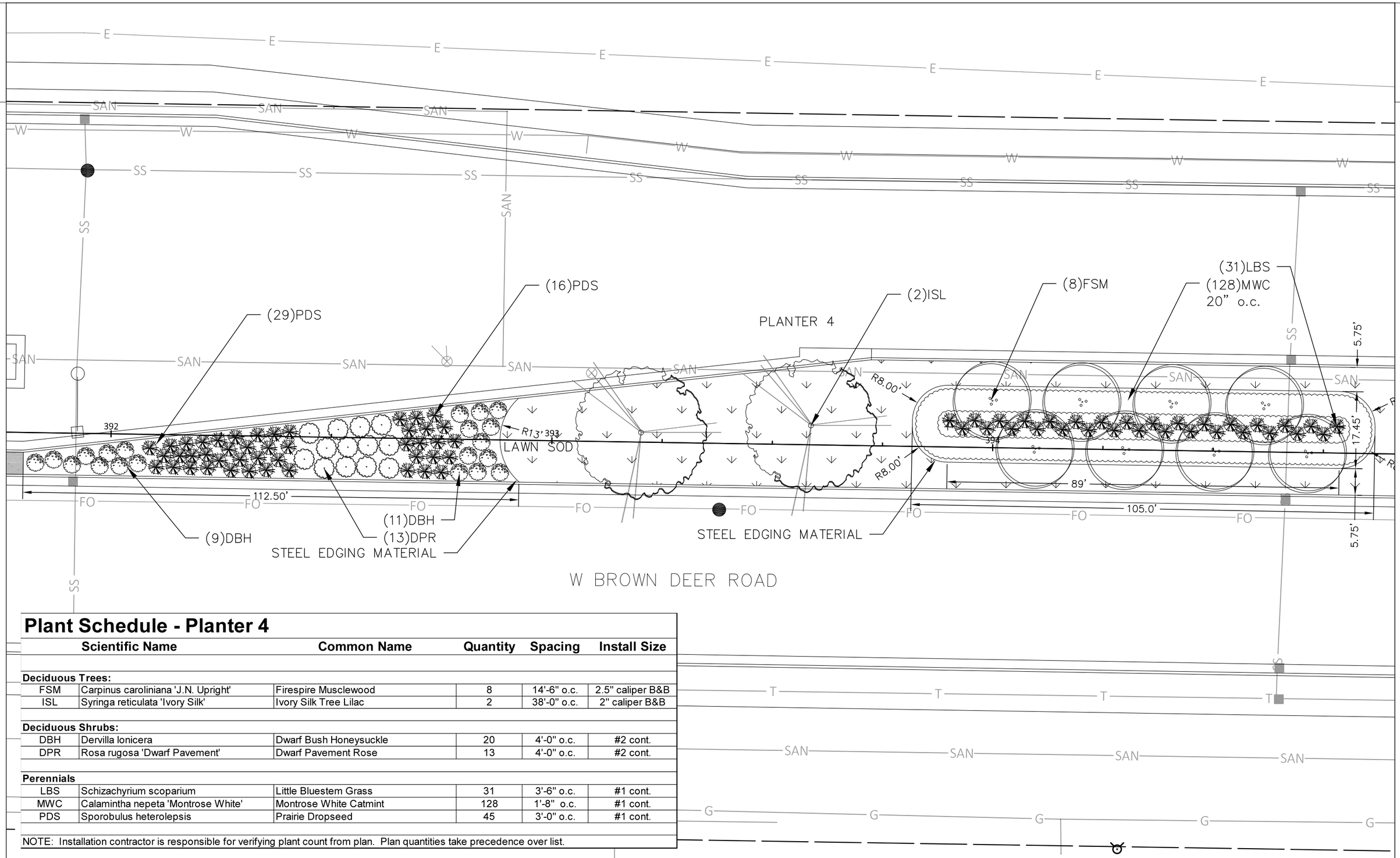
NOTE: Installation contractor is responsible for verifying plant count from plan. Plan quantities take precedence over list.

Plant Schedule - Planter 3

	Scientific Name	Common Name	Quantity	Spacing	Install Size
Deciduous Trees:					
RRC	Malus 'Royal Raindrops'	Royal Raindrops Crabapple	3	15'-0" o.c.	2" caliper B&B
Deciduous Shrubs:					
DPR	Rosa rugosa 'Dwarf Pavement'	Dwarf Pavement Rose	13	4'-0" o.c.	#2 cont.
Perennials					
HMS	Panicum virgatum 'Heavy Metal'	Heavy Metal Switch Grass	5	3'-0" o.c.	#1 cont.
PDS	Sporobulus heterolepsis	Prairie Dropseed	27	3'-0" o.c.	#1 cont.

NOTE: Installation contractor is responsible for verifying plant count from plan. Plan quantities take precedence over list.

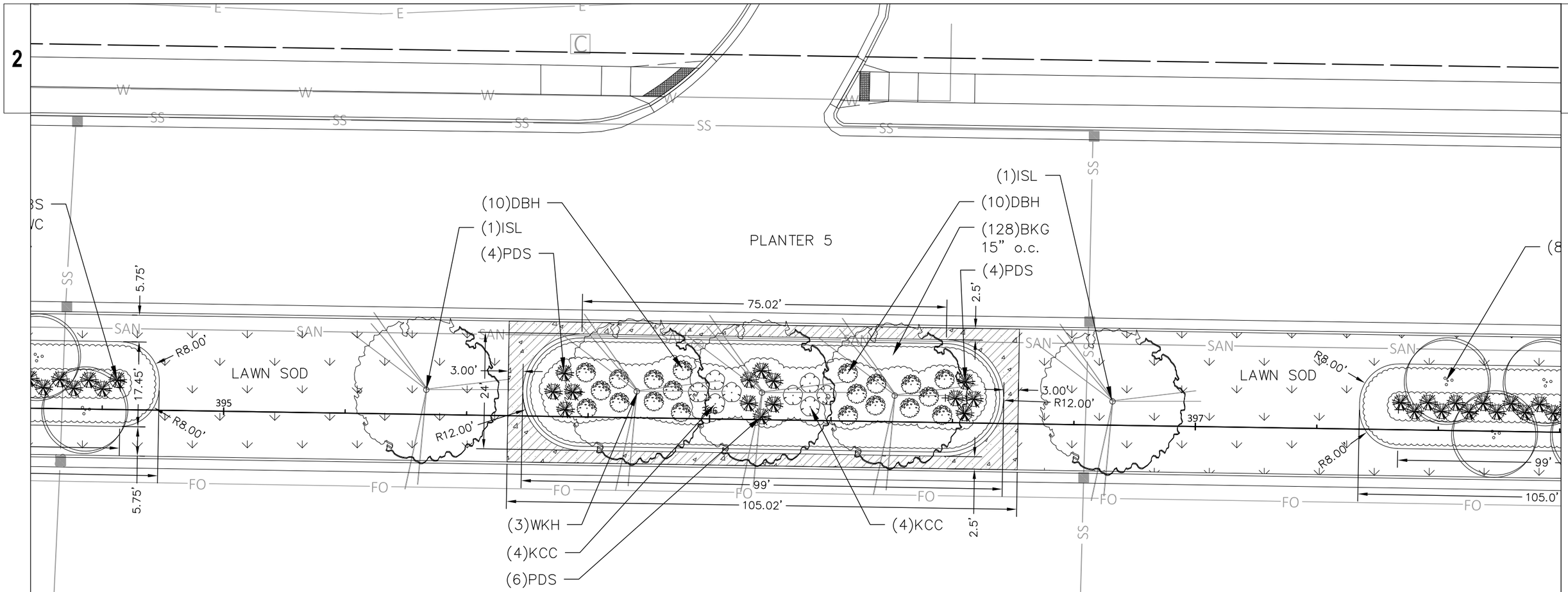
(SCOFIELD PLUM CHESTNUT) CONCRETE SIDEWALK 5–INCH



Plant Schedule - Planter 4

	Scientific Name	Common Name	Quantity	Spacing	Install Size
Deciduous Trees:					
FSM	Carpinus caroliniana 'J.N. Upright'	Firespire Musclewood	8	14'-6" o.c.	2.5" caliper B&B
ISL	Syringa reticulata 'Ivory Silk'	Ivory Silk Tree Lilac	2	38'-0" o.c.	2" caliper B&B
Deciduous Shrubs:					
DBH	Dervilla lonicera	Dwarf Bush Honeysuckle	20	4'-0" o.c.	#2 cont.
DPR	Rosa rugosa 'Dwarf Pavement'	Dwarf Pavement Rose	13	4'-0" o.c.	#2 cont.
Perennials					
LBS	Schizachyrium scoparium	Little Bluestem Grass	31	3'-6" o.c.	#1 cont.
MWC	Calamintha nepeta 'Montrose White'	Montrose White Catmint	128	1'-8" o.c.	#1 cont.
PDS	Sporobulus heterolepsis	Prairie Dropseed	45	3'-0" o.c.	#1 cont.

NOTE: Installation contractor is responsible for verifying plant count from plan. Plan quantities take precedence over list.

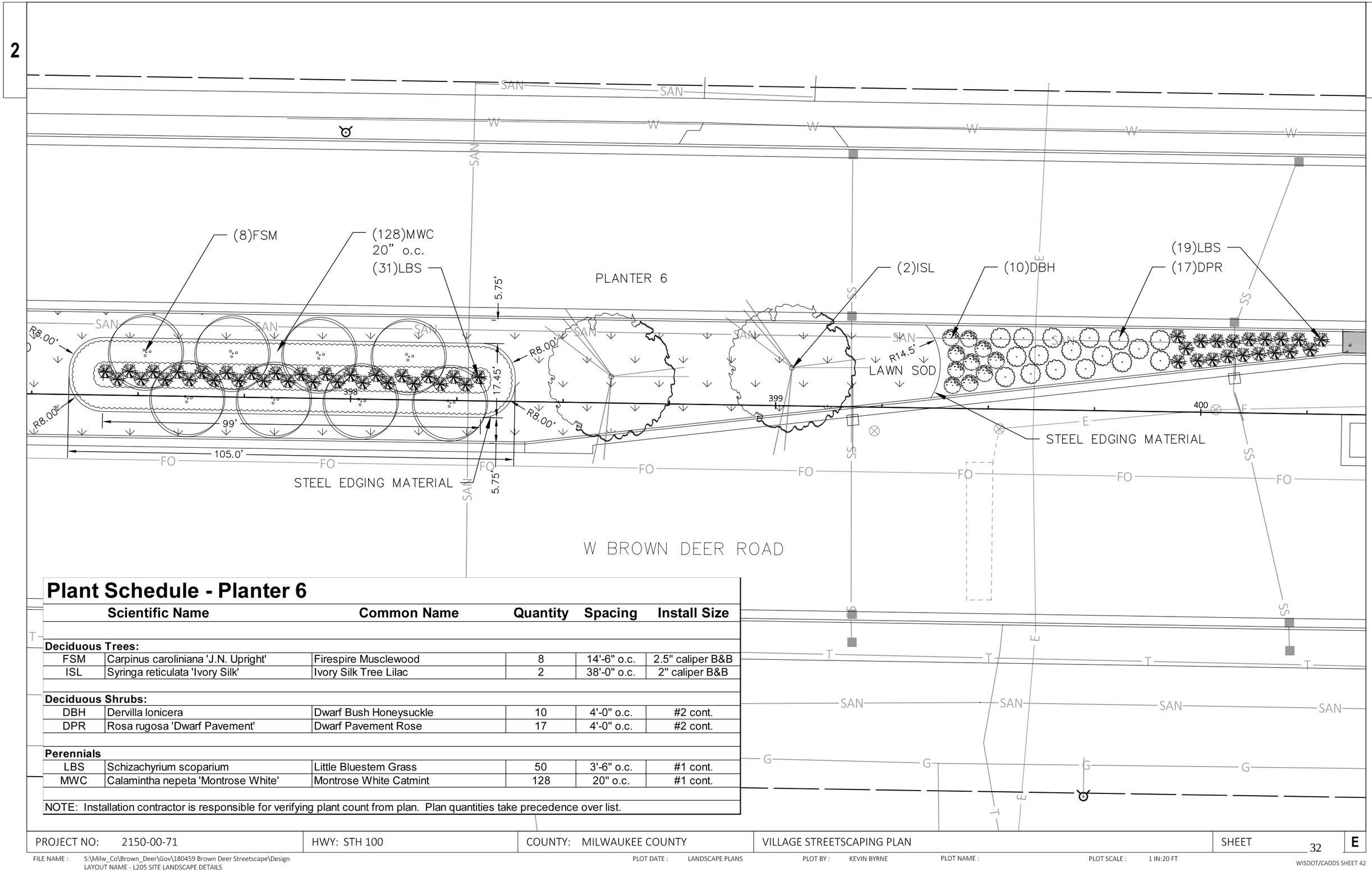


Plant Schedule - Planter 5

	Scientific Name	Common Name	Quantity	Spacing	Install Size
Deciduous Trees:					
ISL	Syringa reticulata 'Ivory Silk'	Ivory Silk Tree Lilac	2	38'-0" o.c.	2" caliper B&B
WKH	Crataegus viridis 'Winter King'	Winter King Hawthorn	3	26'-0" o.c.	2.5" caliper B&B
Deciduous Shrubs:					
DBH	Dervilla lonicera	Dwarf Bush Honeysuckle	20	4'-0" o.c.	#2 cont.
Perennials					
BKG	Geranium x cantabrigiense 'Karmina'	Biokovo Karmina Geranium	128	1'-3" o.c.	#1 cont.
KCC	Nepeta x 'Kit Cat'	Kit Cat Catmint	8	3'-0" o.c.	#1 cont.
PDS	Sporobulus heterolepsis	Prairie Dropseed	14	3'-0" o.c.	#1 cont.

NOTE: Installation contractor is responsible for verifying plant count from plan. Plan quantities take precedence over list.

(SCOFIELD PLUM CHESTNUT)
CONCRETE SIDEWALK
5–INCH



Plant Schedule - Planter 6

Scientific Name	Common Name		Quantity	Spacing	Install Size
Deciduous Trees:					
FSM	Carpinus caroliniana 'J.N. Upright'	Firespire Musclewood	8	14'-6" o.c.	2.5" caliper B&B
ISL	Syringa reticulata 'Ivory Silk'	Ivory Silk Tree Lilac	2	38'-0" o.c.	2" caliper B&B
Deciduous Shrubs:					
DBH	Dervilla lonicera	Dwarf Bush Honeysuckle	10	4'-0" o.c.	#2 cont.
DPR	Rosa rugosa 'Dwarf Pavement'	Dwarf Pavement Rose	17	4'-0" o.c.	#2 cont.
Perennials					
LBS	Schizachyrium scoparium	Little Bluestem Grass	50	3'-6" o.c.	#1 cont.
MWC	Calamintha nepeta 'Montrose White'	Montrose White Catmint	128	20" o.c.	#1 cont.

NOTE: Installation contractor is responsible for verifying plant count from plan. Plan quantities take precedence over list.

Plant Schedule - Planter 7

Scientific Name		Common Name	Quantity	Spacing	Install Size
Perennials					
PDS	Sporobulus heterolepsis	Prairie Dropseed	13	3'-0" o.c.	#1 cont.

NOTE: Installation contractor is responsible for verifying plant count from plan. Plan quantities take precedence over list.

(SCOFIELD SCHOONER BEIGE)
CONCRETE SIDEWALK
5–INCH

2

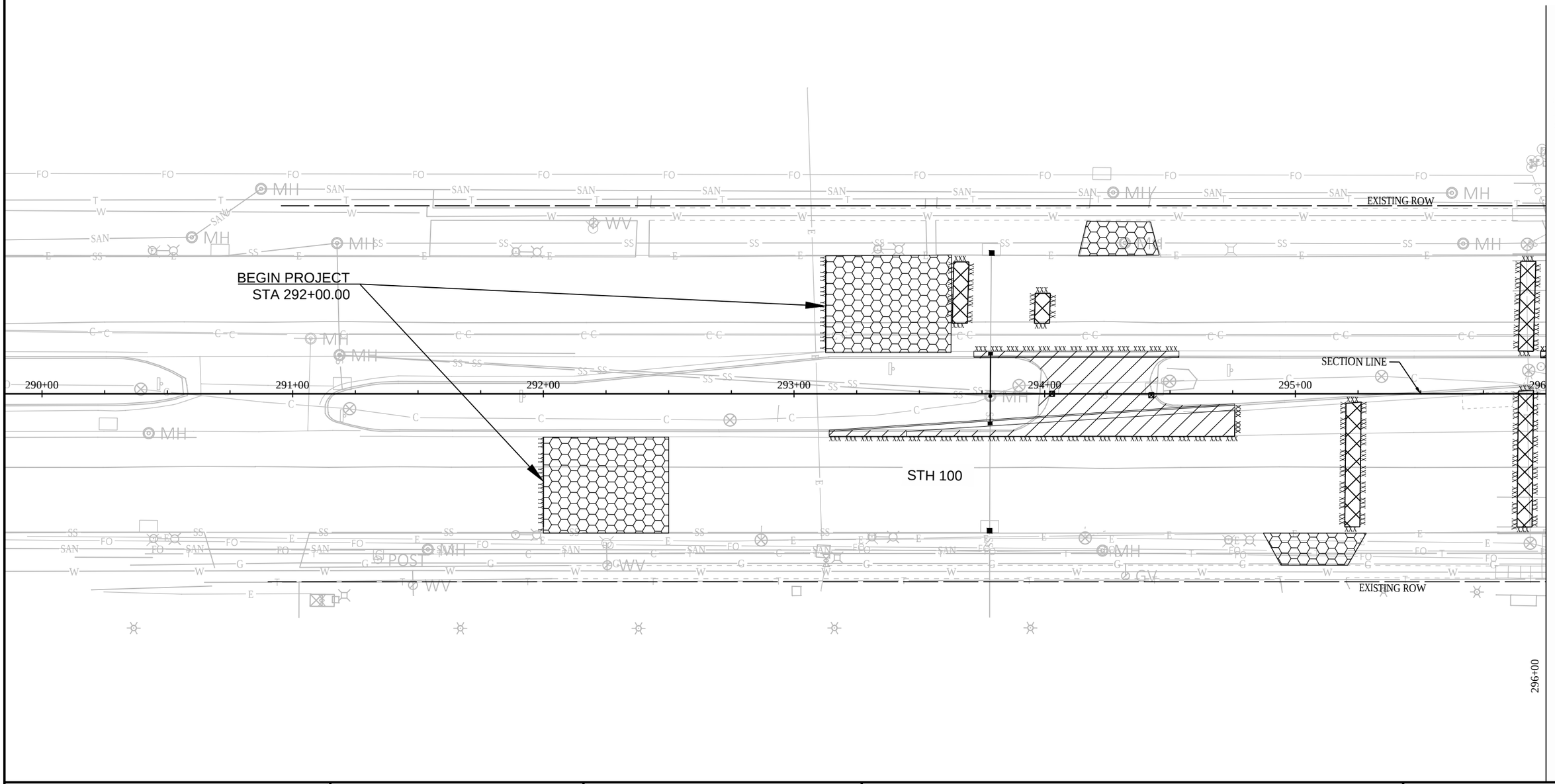
SYM	COMMON NAME	SCIENTIFIC NAME	AVG. MATURE HEIGHT	SIZE (CAL. OR HT.) WHEN PLANTED	ROOT ZONE MODE	MINIMIUM SIZE BALL/POT DIAM.	BALL/POT DEPTH	ROOT SPREAD	PLANT HOLE DIAM.	PLANT HOLE DEPTH	BRACE OR GUY	FERT. UNITS REQ'D	RODENT PROTECT REQ'D	MULCH RING DIAM.
	LARGE DECIDUOUS TREES													
PSG	PRINCETON SENTRY GINKGO	GINKO BILOBA 'PRINCETON SENTRY'	75'	2" CAL.	B&B	24"	16"	-	36"	16"	GUY	4	YES	48"
SHL	SHADEMASTER HONEYLOCUST	GLEDITSIA TRIACANTHOS 'SHADEMASTER'	50'	2.5" CAL.	B&B	28"	18"	-	40"	18"	GUY	4	YES	48"
FSM	FIRESPIRE MUSCLEWOOD	CARPINUS CAROLINIANA "J.N. UPRIGHT'	50'	2.5" CAL.	B&B	28"	18"	-	40"	18"	GUY	4	YES	48"
	SMALL DECIDUOUS TREES													
RRC	ROYAL RAINDROPS CRABAPPLE	MALUS 'ROYAL RAINDROPS'	25'	2" CAL.	B&B	24"	16"	-	36"	16"	GUY	4	YES	48"
WKH	WINTER KING HAWTHORN	CRATAEGUS VIRIDIS 'WINTER KING'	25'	2.5" CAL.	B&B	28"	18"	-	40"	18"	GUY	4	YES	48"
ISL	IVORY SILK TREE LILAC	SYRINGA RETICULATA 'IVORY SILK'	25'	2" CAL.	B&B	24"	16"	-	36"	16"	GUY	4	YES	48"
	SMALL DECIDUOUS SHRUBS													
DBH	DWARF BUSH HONEYSUCKLE	DERVILLA LONICERA	2'	2' HT.	CG	18"	12"	-	30"	12"	NO	1	NO	BED
DPR	DWARF PAVEMENT ROSE	ROSA RUGOSA 'DWARF PAVEMENT'	4'	2' HT.	CG	18"	12"	-	30"	12"	NO	1	NO	BED
GLS	GRO LOW SUMAC	RHUS AROMATICA'GRO-LOW'	2'	2' HT.	CG	18"	12"	-	30"	12"	NO	1	NO	BED
	PERENNIALS													
LBS	LITTLE BLUESTEM GRASS	SCHIZACHYRIUM SCOPARIUM	2'	1' HT.	CG	12"	12"	-	24"	12"	NO	0	NO	BED
KCC	KIT CAT CATMINT	NEPETA X KIT CAT	2'	1' HT.	CG	12"	12"	-	24"	12"	NO	0	NO	BED
MWC	MONTROSE WHITE CATMINT	CALAMINTHA NEPETA 'MONTROSE WHITE'	2'	1' HT.	CG	12"	12"	-	24"	12"	NO	0	NO	BED
BKG	BIOKOVO KARMINA GERANIUM	GERANIUM X CANTABRIGIENSE 'KARMINA'	2'	1' HT.	CG	12"	12"	-	24"	12"	NO	0	NO	BED
PDS	PRAIRIE DROPSEED	SPOROBULUS HETEROLEPSIS	2'	1' HT.	CG	12"	12"	-	24"	12"	NO	0	NO	BED
HMS	HEAVY METAL SWITCH GRASS	PANICUM VIRGATUM 'HEAVY METAL'	4'	1' HT.	CG	12"	12"	-	24"	12"	NO	0	NO	BED

2

LEGEND

- REMOVING ASPHALTIC SURFACE BUTT JOINTS. SEE CONSTRUCTION DETAIL
- REMOVING CONCRETE SIDEWALK
- BASE PATCHING CONCRETE. SEE CONSTRUCTION DETAIL *SHES (CENTER THROUGH LANE)
- REMOVING CONCRETE PAVEMENT
- X — REMOVE TREE
- YYYYY — SAWING ASPHALT
- XXXXX — SAWING CONCRETE
- REMOVING CURB AND GUTTER
- JOINT AND CRACK REPAIR. SEE CONSTRUCTION DETAIL
- REMOVING PAVEMENT AT INLET. SEE CONSTRUCTION DETAIL
- REMOVING PAVEMENT AT MANHOLE. SEE CONSTRUCTION DETAIL

N



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	REMOVAL PLAN	SHEET 35	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021101-RM.DWG
LAYOUT NAME - 01

PLOT DATE : 11/17/2020 3:10 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- REMOVING ASPHALTIC SURFACE BUTT JOINTS. SEE CONSTRUCTION DETAIL
- REMOVING CONCRETE SIDEWALK
- BASE PATCHING CONCRETE. SEE CONSTRUCTION DETAIL *SHES (CENTER THROUGH LANE)
- REMOVING CONCRETE PAVEMENT
- X — REMOVE TREE
- YYYYY — SAWING ASPHALT
- XXXXX — SAWING CONCRETE
- REMOVING CURB AND GUTTER
- JOINT AND CRACK REPAIR. SEE CONSTRUCTION DETAIL
- REMOVING PAVEMENT AT INLET. SEE CONSTRUCTION DETAIL
- REMOVING PAVEMENT AT MANHOLE. SEE CONSTRUCTION DETAIL

N

296+00
SWAN BLVD
SI
TLE
EXISTING ROW
SECTION CORNER DO NOT DISTURB
297+00
298+00
299+00
300+00
SECTION LINE
301+00
302
STH 100
REMOVING ASPHALTIC SURFACE
91st STREET
EXISTING ROW
302+00

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	REMOVAL PLAN	SHEET 36	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021101-RM.DWG
LAYOUT NAME - 02
PLOT DATE : 11/17/2020 3:11 PM
PLOT BY : SCHMIDT, JUDENE M
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

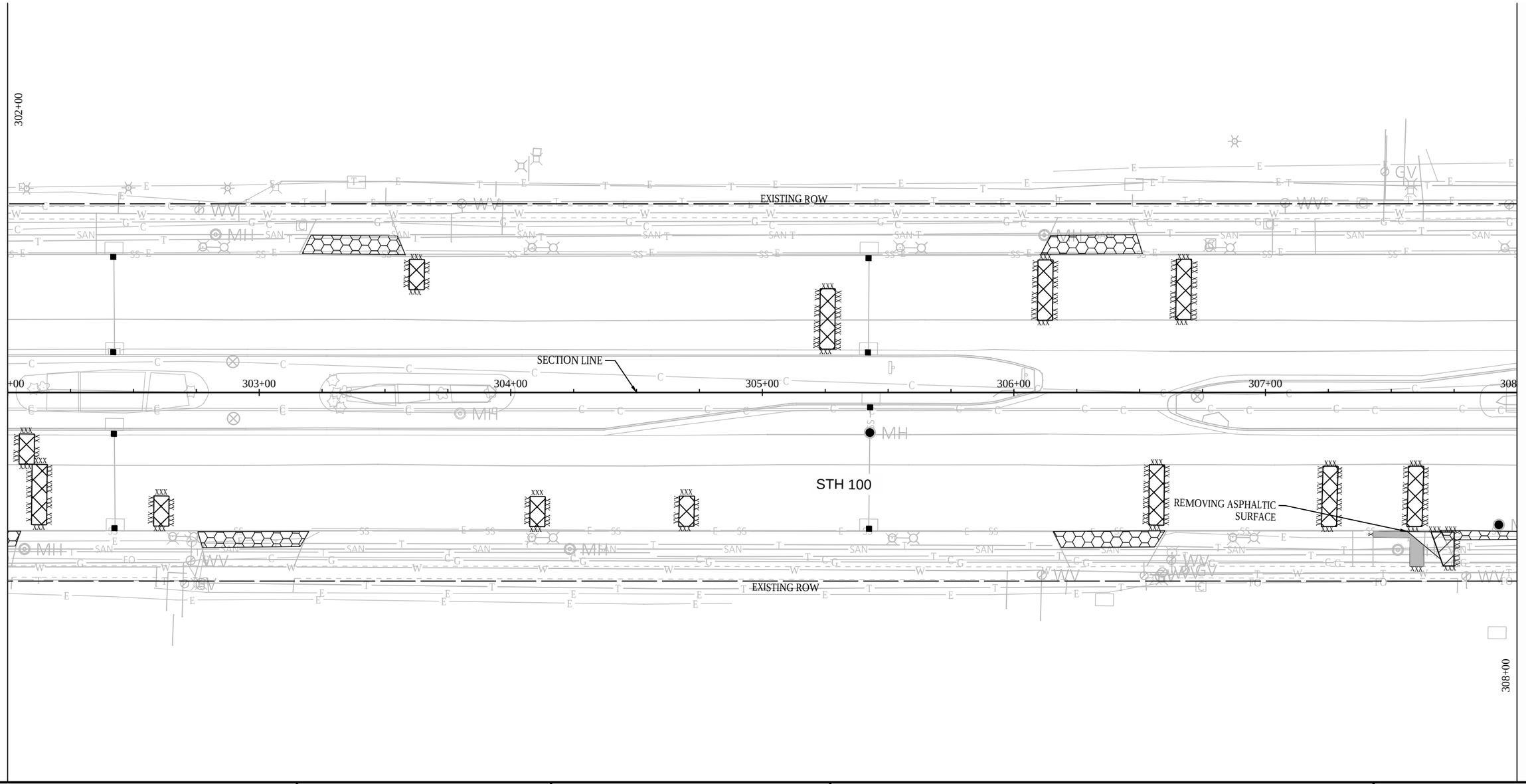
2

LEGEND

- REMOVING ASPHALTIC SURFACE BUTT JOINTS. SEE CONSTRUCTION DETAIL
- REMOVING CONCRETE SIDEWALK
- BASE PATCHING CONCRETE. SEE CONSTRUCTION DETAIL *SHES (CENTER THROUGH LANE)
- REMOVING CONCRETE PAVEMENT
- X — REMOVE TREE
- YYYYY — SAWING ASPHALT
- XXXXX — SAWING CONCRETE
- REMOVING CURB AND GUTTER
- JOINT AND CRACK REPAIR. SEE CONSTRUCTION DETAIL
- REMOVING PAVEMENT AT INLET. SEE CONSTRUCTION DETAIL
- REMOVING PAVEMENT AT MANHOLE. SEE CONSTRUCTION DETAIL

N

2



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	REMOVAL PLAN	SHEET 37	E

FILE NAME : N:\PDS\C3D\215000001\SHEETSPLAN\0211101-RM.DWG
LAYOUT NAME - 03

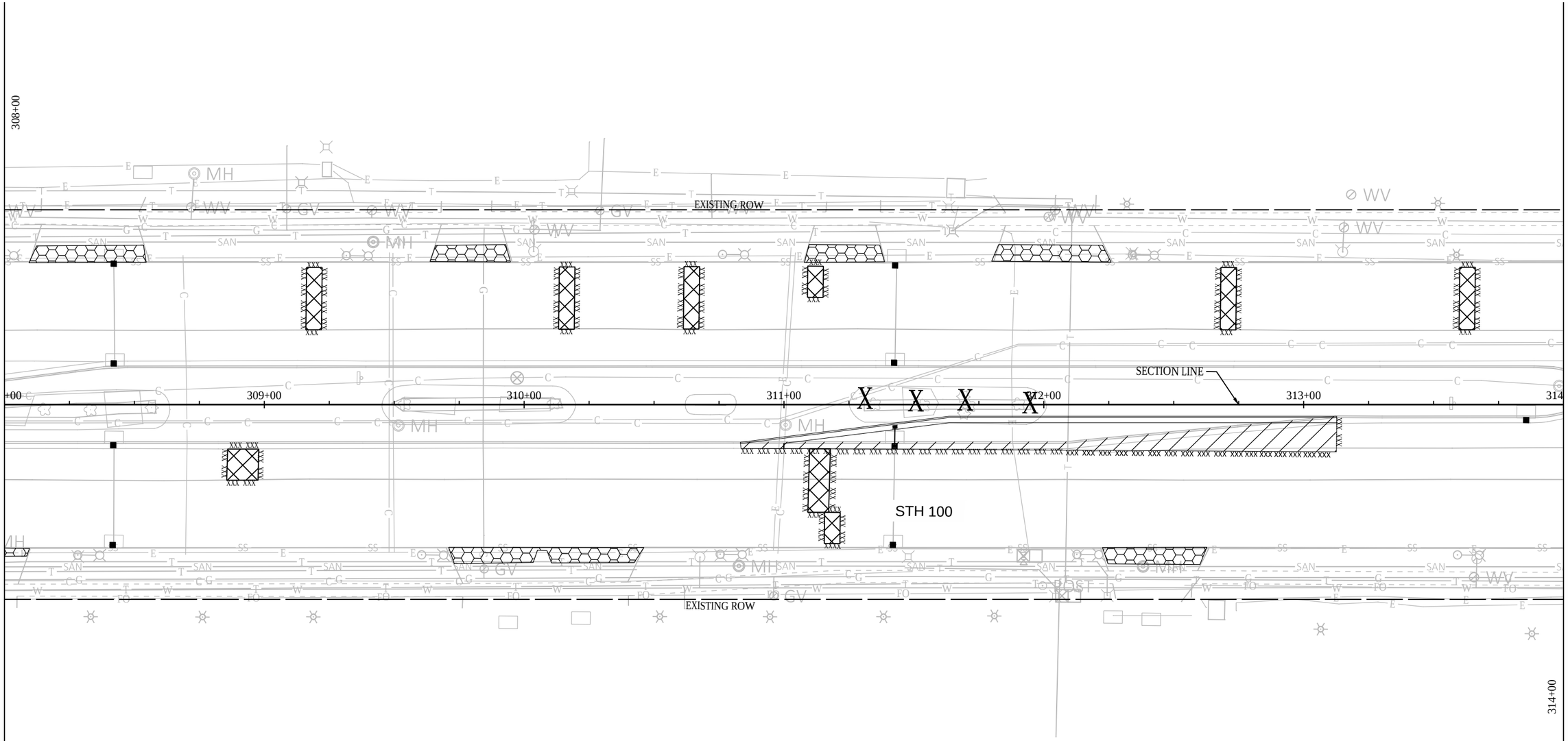
PLOT DATE : 11/17/2020 3:11 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- REMOVING ASPHALTIC SURFACE BUTT JOINTS. SEE CONSTRUCTION DETAIL
- REMOVING CONCRETE SIDEWALK
- BASE PATCHING CONCRETE. SEE CONSTRUCTION DETAIL *SHES (CENTER THROUGH LANE)
- REMOVING CONCRETE PAVEMENT
- X — REMOVE TREE
- YYYYY — SAWING ASPHALT
- XXXXX — SAWING CONCRETE
- REMOVING CURB AND GUTTER
- JOINT AND CRACK REPAIR. SEE CONSTRUCTION DETAIL
- REMOVING PAVEMENT AT INLET. SEE CONSTRUCTION DETAIL
- REMOVING PAVEMENT AT MANHOLE. SEE CONSTRUCTION DETAIL

N



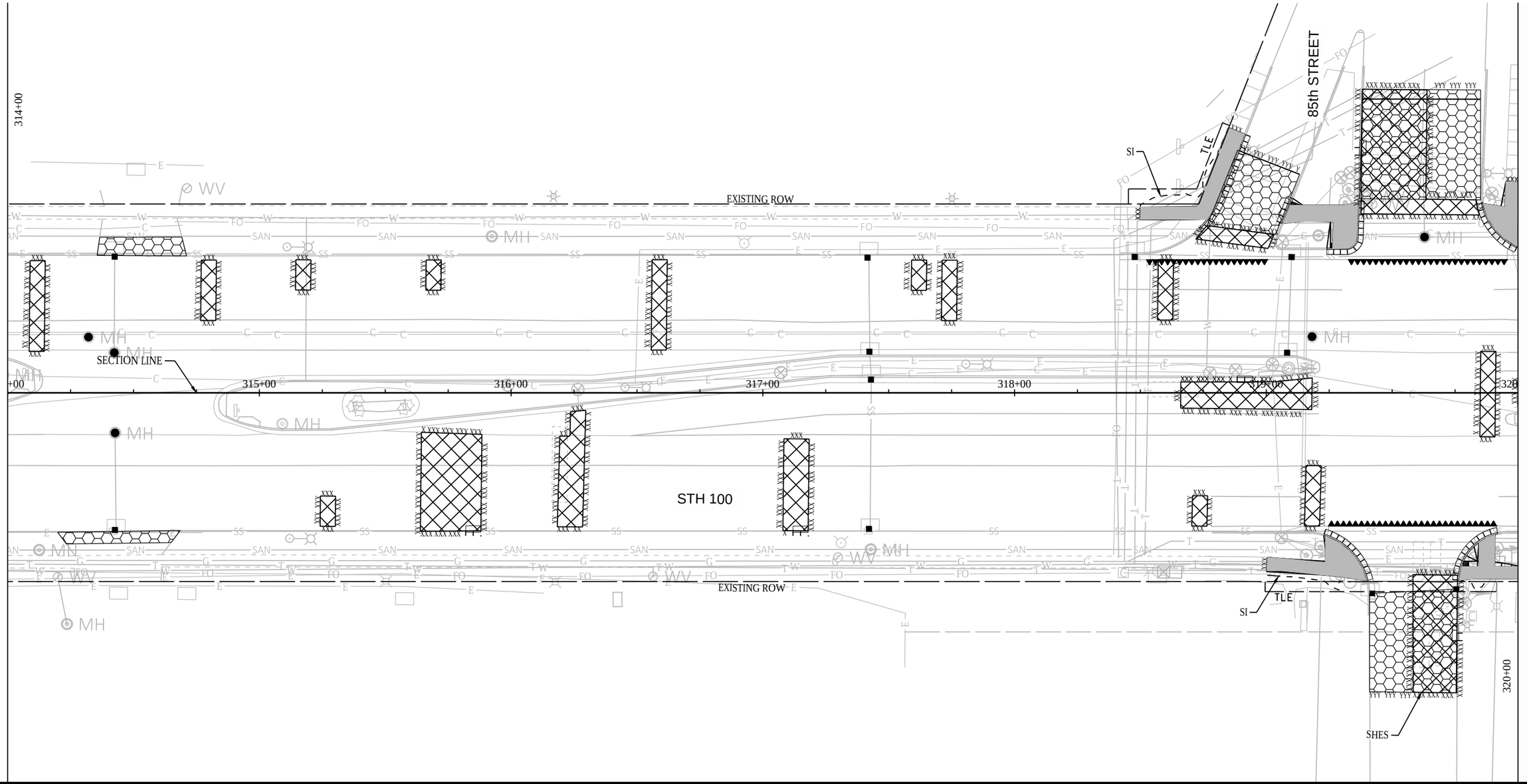
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	REMOVAL PLAN	SHEET 38	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021101-RM.DWG
LAYOUT NAME - 04
PLOT DATE : 11/17/2020 3:11 PM
PLOT BY : SCHMIDT, JUDENE M
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

LEGEND

- REMOVING ASPHALTIC SURFACE BUTT JOINTS. SEE CONSTRUCTION DETAIL
- REMOVING CONCRETE SIDEWALK
- BASE PATCHING CONCRETE. SEE CONSTRUCTION DETAIL *SHES (CENTER THROUGH LANE)
- REMOVING CONCRETE PAVEMENT
- X — REMOVE TREE
- YYYYY — SAWING ASPHALT
- XXXXX — SAWING CONCRETE
- REMOVING CURB AND GUTTER
- JOINT AND CRACK REPAIR. SEE CONSTRUCTION DETAIL
- REMOVING PAVEMENT AT INLET. SEE CONSTRUCTION DETAIL
- REMOVING PAVEMENT AT MANHOLE. SEE CONSTRUCTION DETAIL

N



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	REMOVAL PLAN	SHEET 39	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021101-RM.DWG
LAYOUT NAME - 05
PLOT DATE : 11/17/2020 3:12 PM
PLOT BY : SCHMIDT, JUDENE M
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

2

LEGEND

- REMOVING ASPHALTIC SURFACE BUTT JOINTS. SEE CONSTRUCTION DETAIL
- REMOVING CONCRETE SIDEWALK
- BASE PATCHING CONCRETE. SEE CONSTRUCTION DETAIL *SHES (CENTER THROUGH LANE)
- REMOVING CONCRETE PAVEMENT
- X — REMOVE TREE
- YYYYY — SAWING ASPHALT
- XXXXX — SAWING CONCRETE
- REMOVING CURB AND GUTTER
- JOINT AND CRACK REPAIR. SEE CONSTRUCTION DETAIL
- REMOVING PAVEMENT AT INLET. SEE CONSTRUCTION DETAIL
- REMOVING PAVEMENT AT MANHOLE. SEE CONSTRUCTION DETAIL

N

2

SI
TLE
EXISTING ROW
SECTION LINE
320+00
321+00
322+00
323+00
324+00
325+00
326+00
SECTION CORNER
DO NOT DISTURB
STH 100
EXISTING ROW
TLE
SI

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	REMOVAL PLAN	SHEET 40	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021101-RM.DWG
LAYOUT NAME - 06

PLOT DATE : 11/17/2020 3:12 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

REMOVING ASPHALTIC SURFACE BUTT JOINTS. SEE CONSTRUCTION DETAIL

REMOVING CONCRETE SIDEWALK

BASE PATCHING CONCRETE. SEE CONSTRUCTION DETAIL
*SHES (CENTER THROUGH LANE)

REMOVING CONCRETE PAVEMENT

X — REMOVE TREE

YYYYY — SAWING ASPHALT

XXXXX — SAWING CONCRETE

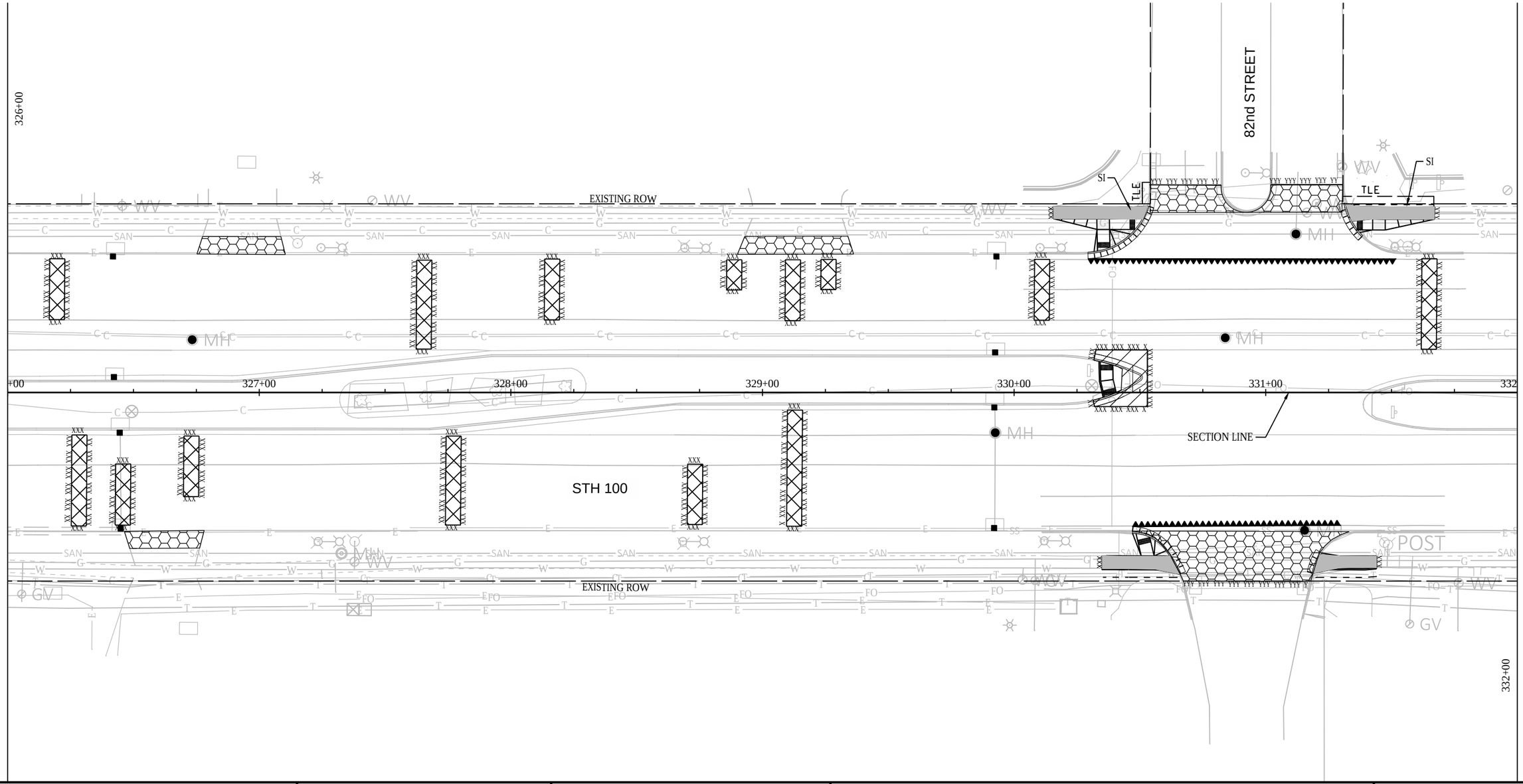
REMOVING CURB AND GUTTER

JOINT AND CRACK REPAIR. SEE CONSTRUCTION DETAIL

REMOVING PAVEMENT AT INLET. SEE CONSTRUCTION DETAIL

REMOVING PAVEMENT AT MANHOLE. SEE CONSTRUCTION DETAIL

N



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	REMOVAL PLAN	SHEET 41	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021101-RM.DWG
LAYOUT NAME - 07

PLOT DATE : 11/17/2020 3:12 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

REMOVING ASPHALTIC SURFACE BUTT JOINTS. SEE CONSTRUCTION DETAIL

REMOVING CONCRETE SIDEWALK

BASE PATCHING CONCRETE. SEE CONSTRUCTION DETAIL
*SHES (CENTER THROUGH LANE)

REMOVING CONCRETE PAVEMENT

X — REMOVE TREE

YYYYY — SAWING ASPHALT

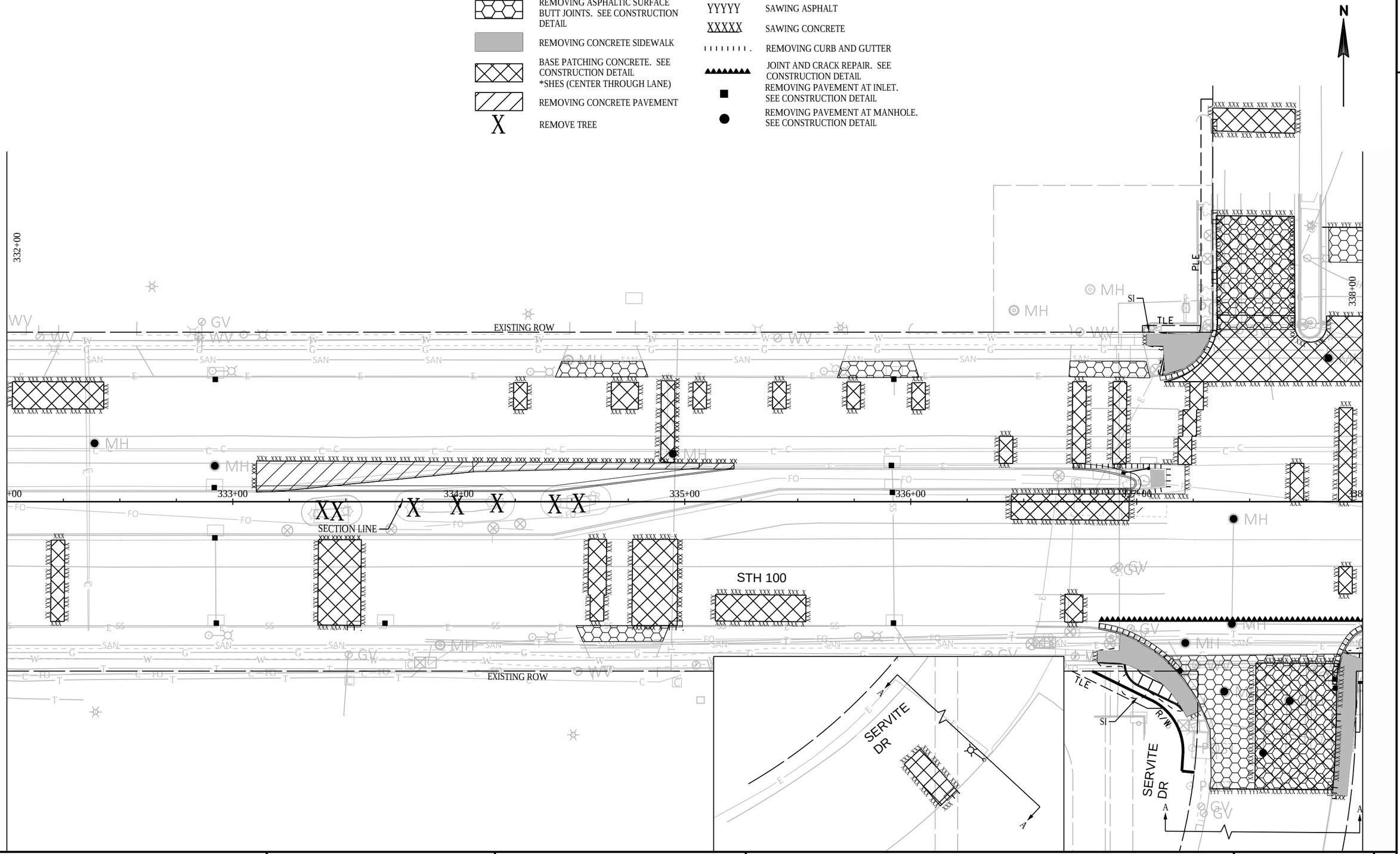
XXXXX — SAWING CONCRETE

REMOVING CURB AND GUTTER

JOINT AND CRACK REPAIR. SEE CONSTRUCTION DETAIL

REMOVING PAVEMENT AT INLET. SEE CONSTRUCTION DETAIL

REMOVING PAVEMENT AT MANHOLE. SEE CONSTRUCTION DETAIL



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	REMOVAL PLAN	SHEET 42	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021101-RM.DWG
LAYOUT NAME - 08

PLOT DATE : 11/17/2020 3:13 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:40 FT

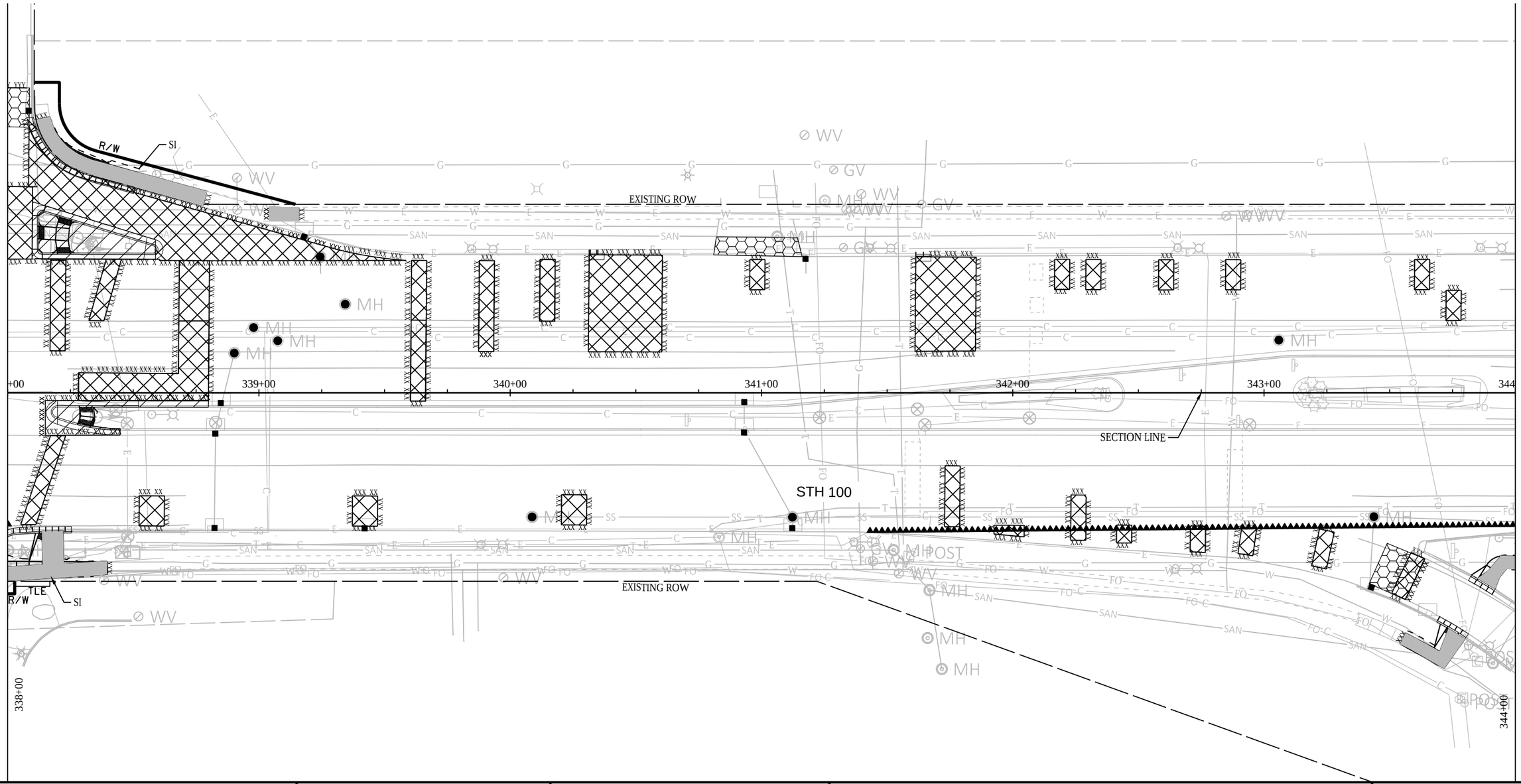
WISDOT/CADDS SHEET 42

2

LEGEND

- REMOVING ASPHALTIC SURFACE BUTT JOINTS. SEE CONSTRUCTION DETAIL
- REMOVING CONCRETE SIDEWALK
- BASE PATCHING CONCRETE. SEE CONSTRUCTION DETAIL *SHES (CENTER THROUGH LANE)
- REMOVING CONCRETE PAVEMENT
- X — REMOVE TREE
- YYYYY — SAWING ASPHALT
- XXXXX — SAWING CONCRETE
- REMOVING CURB AND GUTTER
- JOINT AND CRACK REPAIR. SEE CONSTRUCTION DETAIL
- REMOVING PAVEMENT AT INLET. SEE CONSTRUCTION DETAIL
- REMOVING PAVEMENT AT MANHOLE. SEE CONSTRUCTION DETAIL

N



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	REMOVAL PLAN	SHEET 43	E

FILE NAME : N:\PDS\C3D\215000001\SHEETSPLAN\0211101-RM.DWG
LAYOUT NAME - 09

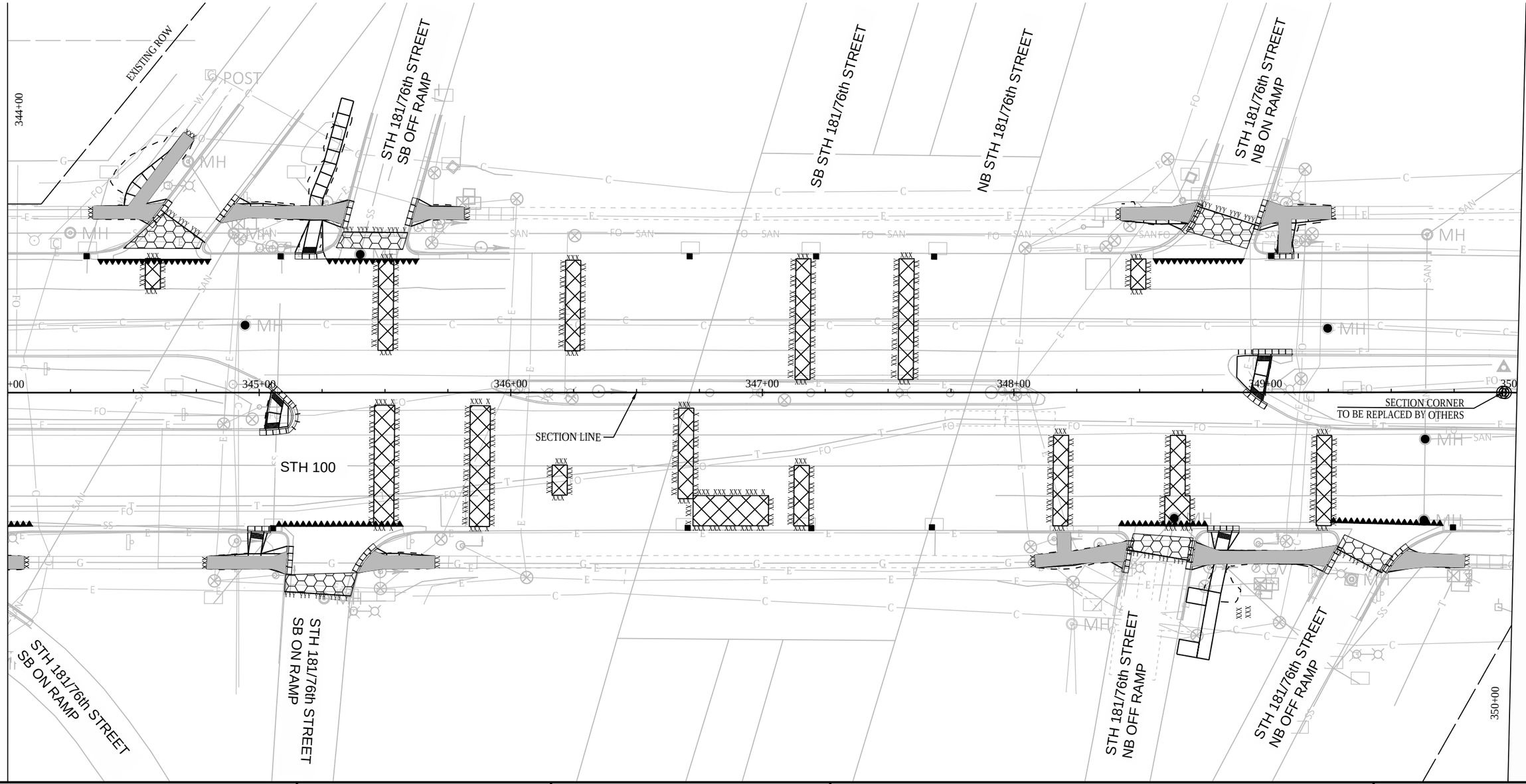
PLOT DATE : 11/17/2020 3:13 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

- REMOVING ASPHALTIC SURFACE BUTT JOINTS. SEE CONSTRUCTION DETAIL
- REMOVING CONCRETE SIDEWALK
- BASE PATCHING CONCRETE. SEE CONSTRUCTION DETAIL *SHES (CENTER THROUGH LANE)
- REMOVING CONCRETE PAVEMENT
- X — REMOVE TREE
- YYYYY — SAWING ASPHALT
- XXXXX — SAWING CONCRETE
- REMOVING CURB AND GUTTER
- JOINT AND CRACK REPAIR. SEE CONSTRUCTION DETAIL
- REMOVING PAVEMENT AT INLET. SEE CONSTRUCTION DETAIL
- REMOVING PAVEMENT AT MANHOLE. SEE CONSTRUCTION DETAIL

N

2



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	REMOVAL PLAN	SHEET 44	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\0211101-RM.DWG
LAYOUT NAME - 10
PLOT DATE : 11/17/2020 3:13 PM
PLOT BY : SCHMIDT, JUDENE M
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- REMOVING ASPHALTIC SURFACE BUTT JOINTS. SEE CONSTRUCTION DETAIL
- REMOVING CONCRETE SIDEWALK
- BASE PATCHING CONCRETE. SEE CONSTRUCTION DETAIL *SHES (CENTER THROUGH LANE)
- REMOVING CONCRETE PAVEMENT
- X — REMOVE TREE
- YYYYY — SAWING ASPHALT
- XXXXX — SAWING CONCRETE
- REMOVING CURB AND GUTTER
- JOINT AND CRACK REPAIR. SEE CONSTRUCTION DETAIL
- REMOVING PAVEMENT AT INLET. SEE CONSTRUCTION DETAIL
- REMOVING PAVEMENT AT MANHOLE. SEE CONSTRUCTION DETAIL

N

STH 181/76th STREET NB ON RAMP

350+00

351+00

352+00

353+00

354+00

355+00

356+00

EXISTING ROW

SECTION LINE

STH 100

76th PLACE

SI

TLE

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	REMOVAL PLAN	SHEET 45	E

2

2

LEGEND

REMOVING ASPHALTIC SURFACE BUTT JOINTS. SEE CONSTRUCTION DETAIL

REMOVING CONCRETE SIDEWALK

BASE PATCHING CONCRETE. SEE CONSTRUCTION DETAIL
*SHES (CENTER THROUGH LANE)

REMOVING CONCRETE PAVEMENT

X REMOVE TREE

YYYYY SAWING ASPHALT

XXXXX SAWING CONCRETE

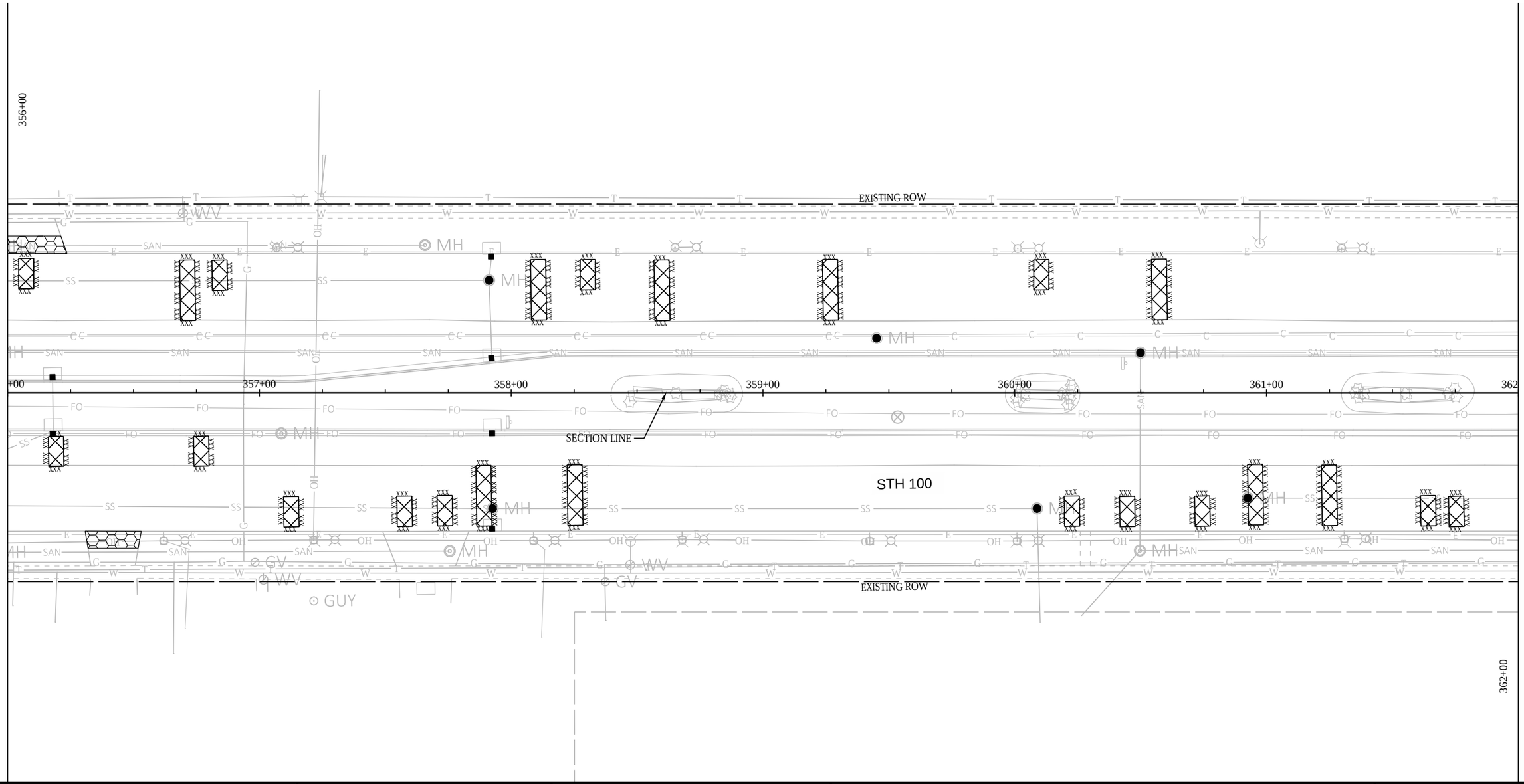
REMOVING CURB AND GUTTER

JOINT AND CRACK REPAIR. SEE CONSTRUCTION DETAIL

REMOVING PAVEMENT AT INLET. SEE CONSTRUCTION DETAIL

REMOVING PAVEMENT AT MANHOLE. SEE CONSTRUCTION DETAIL

N



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	REMOVAL PLAN	SHEET 46	E

FILE NAME : N:\PDS\C3D\215000001\SHEETSPLAN\021101-RM.DWG
LAYOUT NAME - 12

PLOT DATE : 11/17/2020 3:14 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- REMOVING ASPHALTIC SURFACE BUTT JOINTS. SEE CONSTRUCTION DETAIL
- REMOVING CONCRETE SIDEWALK
- BASE PATCHING CONCRETE. SEE CONSTRUCTION DETAIL *SHES (CENTER THROUGH LANE)
- REMOVING CONCRETE PAVEMENT
- X — REMOVE TREE
- YYYYY — SAWING ASPHALT
- XXXXX — SAWING CONCRETE
- REMOVING CURB AND GUTTER
- JOINT AND CRACK REPAIR. SEE CONSTRUCTION DETAIL
- REMOVING PAVEMENT AT INLET. SEE CONSTRUCTION DETAIL
- REMOVING PAVEMENT AT MANHOLE. SEE CONSTRUCTION DETAIL

N

362+00

SI

TLE

EXISTING ROW

70th STREET

SI

TLE

MH

SS

SAN

FO

+00

363+00

364+00

365+00

366+00

367+00

368

SECTION LINE

STH 100

SI

TLE

72nd STREET

EXISTING ROW

GUY

368+00

2

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	REMOVAL PLAN	SHEET 47	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021101-RM.DWG
LAYOUT NAME - 13

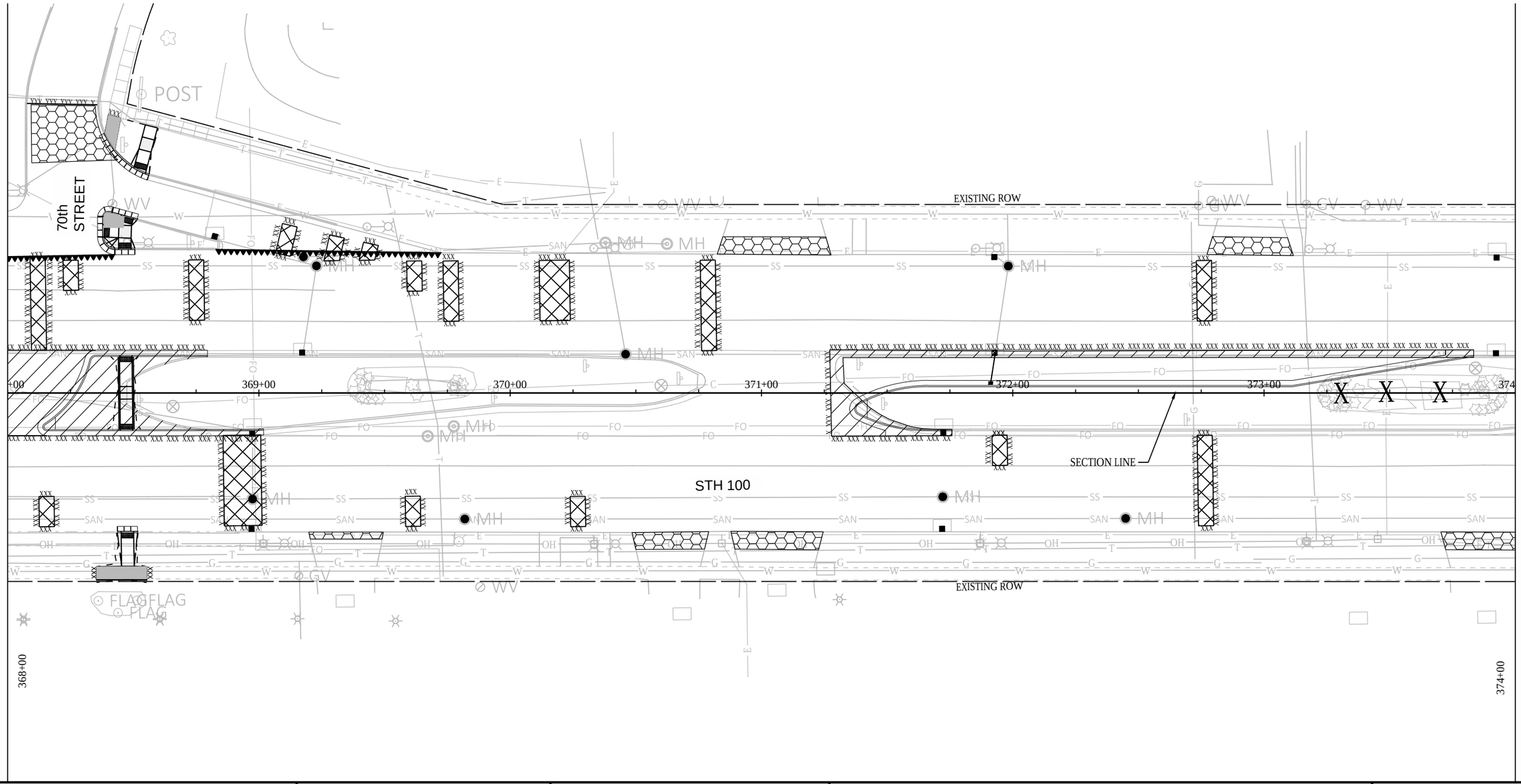
PLOT DATE : 11/17/2020 3:14 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- REMOVING ASPHALTIC SURFACE BUTT JOINTS. SEE CONSTRUCTION DETAIL
- REMOVING CONCRETE SIDEWALK
- BASE PATCHING CONCRETE. SEE CONSTRUCTION DETAIL *SHES (CENTER THROUGH LANE)
- REMOVING CONCRETE PAVEMENT
- X — REMOVE TREE
- YYYYY — SAWING ASPHALT
- XXXXX — SAWING CONCRETE
- REMOVING CURB AND GUTTER
- JOINT AND CRACK REPAIR. SEE CONSTRUCTION DETAIL
- REMOVING PAVEMENT AT INLET. SEE CONSTRUCTION DETAIL
- REMOVING PAVEMENT AT MANHOLE. SEE CONSTRUCTION DETAIL

N



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	REMOVAL PLAN	SHEET 48	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021101-RM.DWG
LAYOUT NAME - 14

PLOT DATE : 11/17/2020 3:15 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- REMOVING ASPHALTIC SURFACE BUTT JOINTS. SEE CONSTRUCTION DETAIL
- REMOVING CONCRETE SIDEWALK
- BASE PATCHING CONCRETE. SEE CONSTRUCTION DETAIL *SHES (CENTER THROUGH LANE)
- REMOVING CONCRETE PAVEMENT
- X — REMOVE TREE
- YYYYY — SAWING ASPHALT
- XXXXX — SAWING CONCRETE
- REMOVING CURB AND GUTTER
- JOINT AND CRACK REPAIR. SEE CONSTRUCTION DETAIL
- REMOVING PAVEMENT AT INLET. SEE CONSTRUCTION DETAIL
- REMOVING PAVEMENT AT MANHOLE. SEE CONSTRUCTION DETAIL

N

374+00
375+00
376+00
377+00
378+00
379+00
380
380+00

EXISTING ROW
EXISTING ROW
EXISTING ROW
EXISTING ROW

BEGIN 5' C/L ROADWAY SHIFT
C/L OF ROADWAY
SECTION CORNER DO NOT DISTURB
SECTION LINE
SECTION LINE
STH 100
REMOVING ASPHALTIC SURFACE
68th STREET
SI
16'
GRAVEL DRIVEWAY
16'

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	REMOVAL PLAN	SHEET 49	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021101-RM.DWG
LAYOUT NAME - 15
PLOT DATE : 11/17/2020 3:15 PM
PLOT BY : SCHMIDT, JUDENE M
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

- REMOVING ASPHALTIC SURFACE BUTT JOINTS. SEE CONSTRUCTION DETAIL
- REMOVING CONCRETE SIDEWALK
- BASE PATCHING CONCRETE. SEE CONSTRUCTION DETAIL *SHES (CENTER THROUGH LANE)
- REMOVING CONCRETE PAVEMENT
- X — REMOVE TREE
- YYYYY — SAWING ASPHALT
- XXXXX — SAWING CONCRETE
- REMOVING CURB AND GUTTER
- JOINT AND CRACK REPAIR. SEE CONSTRUCTION DETAIL
- REMOVING PAVEMENT AT INLET. SEE CONSTRUCTION DETAIL
- REMOVING PAVEMENT AT MANHOLE. SEE CONSTRUCTION DETAIL

N

380+00

PARK PLAZA CT

SI

ILE

SEE COLORED CONCRETE INTERSECTION CONSTRUCTION DETAIL FOR ADDITIONAL INFORMATION

EXISTING ROW

EXISTING ROW

REMOVING MASONRY

END 5' C/L ROADWAY SHIFT

C/L OF ROADWAY

+00

381+00

382+00

383+00

384+00

385+00

386

SECTION LINE

REMOVING ASPHALTIC SURFACE

REMOVING ASPHALTIC SURFACE

STH 100

REMOVING ASPHALTIC SURFACE

ENCROACHMENT TO BE REMOVED BY OWNER (BOULDER)

21'

ASPH. DRIVEWAY

17'

EXISTING ROW

ASPH. DRIVEWAY

SI

EXISTING ROW

17'

22'

B

B

66th STREET

B

B

66th STREET

ENCROACHMENT TO BE REMOVED BY OWNER (SHRUBS/BUSHES)

386+00

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	REMOVAL PLAN	SHEET 50	E

FILE NAME : N:\PDS\C3D\215000001\SHEETSPLAN\021101-RM.DWG
LAYOUT NAME - 16

PLOT DATE : 11/17/2020 3:16 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- REMOVING ASPHALTIC SURFACE BUTT JOINTS. SEE CONSTRUCTION DETAIL
- REMOVING CONCRETE SIDEWALK
- BASE PATCHING CONCRETE. SEE CONSTRUCTION DETAIL *SHES (CENTER THROUGH LANE)
- REMOVING CONCRETE PAVEMENT
- X — REMOVE TREE
- YYYYY — SAWING ASPHALT
- XXXXX — SAWING CONCRETE
- REMOVING CURB AND GUTTER
- JOINT AND CRACK REPAIR. SEE CONSTRUCTION DETAIL
- REMOVING PAVEMENT AT INLET. SEE CONSTRUCTION DETAIL
- REMOVING PAVEMENT AT MANHOLE. SEE CONSTRUCTION DETAIL

N

386+00
387+00
388+00
389+00
390+00
391+00
392+00
392+00

COMM DWY
SI
TLE
PLE
TLE
SI
EXISTING ROW
CONCRETE
C/L OF ROADWAY
SECTION LINE
STH 100
REMOVING ASPHALTIC SURFACE
TREE TO REMAIN
REMOVING ASPHALTIC SURFACE
SI
EXISTING ROW
ASPH. DRIVEWAY
ENCROACHMENT TO BE REMOVED BY OWNER (GARDEN)
15'
ASPH. DRIVEWAY
ENCROACHMENT ALLOWED TO REMAIN BY PERMIT (ASPHALT)
ENCROACHMENT TO BE REMOVED BY OWNER (FENCE)
CONTRACTOR REMOVAL (ASPHALT)
64th STREET
64th STREET
C
C
C
C

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	REMOVAL PLAN	SHEET 51	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021101-RM.DWG
LAYOUT NAME - 17

PLOT DATE : 11/17/2020 3:16 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

REMOVING ASPHALTIC SURFACE BUTT JOINTS. SEE CONSTRUCTION DETAIL

REMOVING CONCRETE SIDEWALK

BASE PATCHING CONCRETE. SEE CONSTRUCTION DETAIL
*SHES (CENTER THROUGH LANE)

REMOVING CONCRETE PAVEMENT

X — REMOVE TREE

YYYYY — SAWING ASPHALT

XXXXX — SAWING CONCRETE

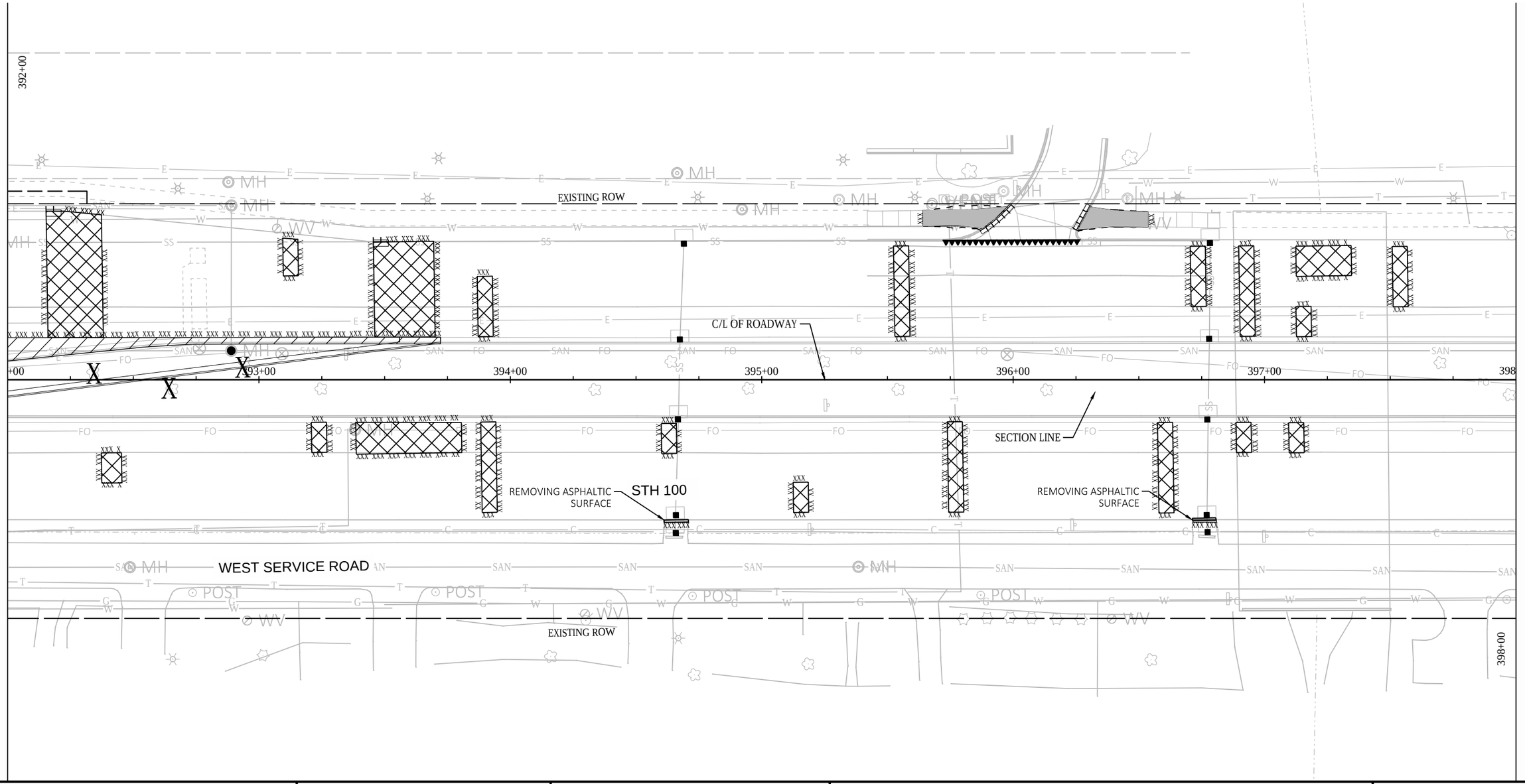
REMOVING CURB AND GUTTER

JOINT AND CRACK REPAIR. SEE CONSTRUCTION DETAIL

REMOVING PAVEMENT AT INLET. SEE CONSTRUCTION DETAIL

REMOVING PAVEMENT AT MANHOLE. SEE CONSTRUCTION DETAIL

N

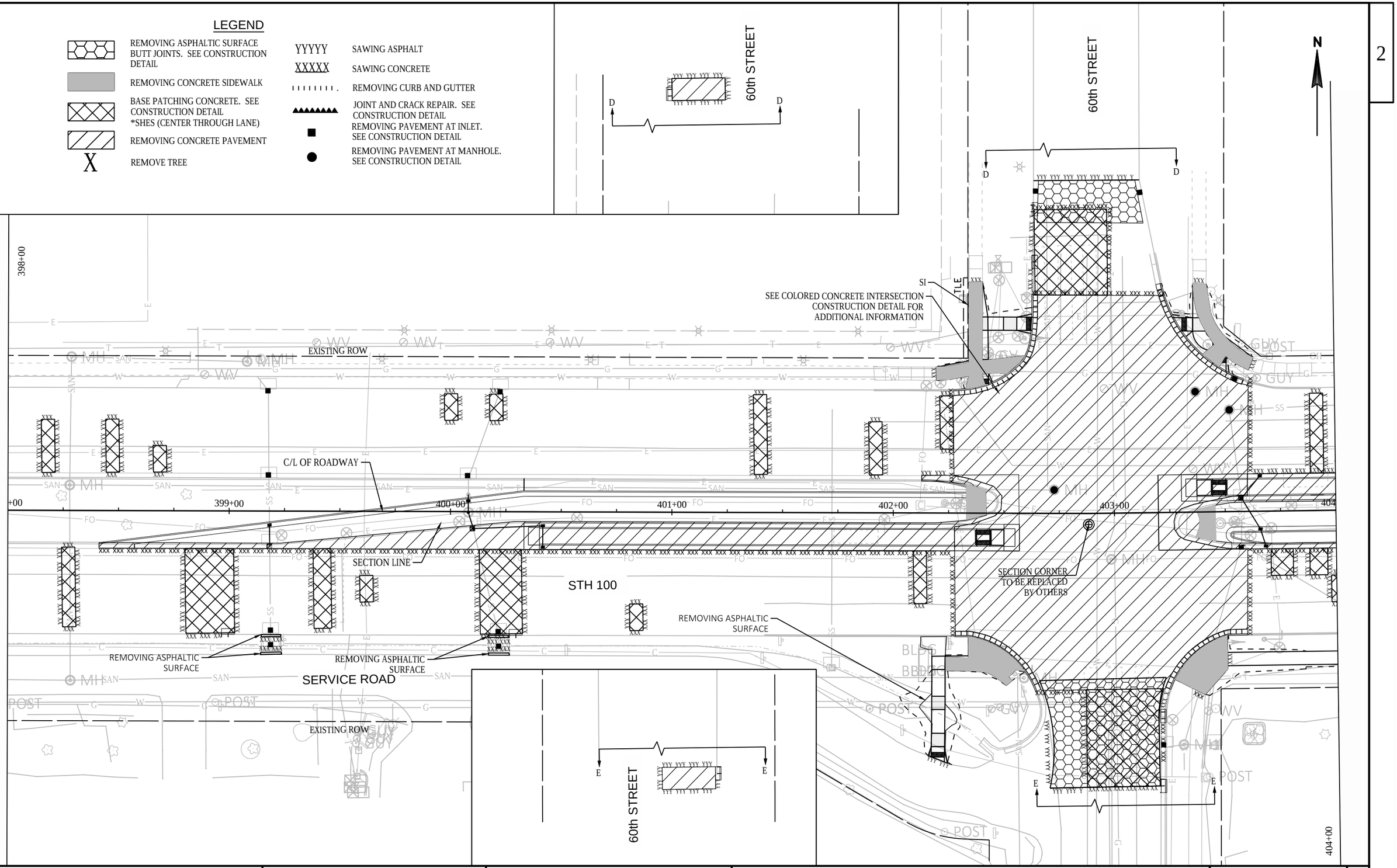


2

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	REMOVAL PLAN	SHEET 52	E

LEGEND

- REMOVING ASPHALTIC SURFACE BUTT JOINTS. SEE CONSTRUCTION DETAIL
- REMOVING CONCRETE SIDEWALK
- BASE PATCHING CONCRETE. SEE CONSTRUCTION DETAIL *SHES (CENTER THROUGH LANE)
- REMOVING CONCRETE PAVEMENT
- X — REMOVE TREE
- YYYYY — SAWING ASPHALT
- XXXXX — SAWING CONCRETE
- REMOVING CURB AND GUTTER
- JOINT AND CRACK REPAIR. SEE CONSTRUCTION DETAIL
- REMOVING PAVEMENT AT INLET. SEE CONSTRUCTION DETAIL
- REMOVING PAVEMENT AT MANHOLE. SEE CONSTRUCTION DETAIL



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	REMOVAL PLAN	SHEET 53	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021101-RM.DWG
LAYOUT NAME - 19

PLOT DATE : 11/17/2020 3:18 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

REMOVING ASPHALTIC SURFACE BUTT JOINTS. SEE CONSTRUCTION DETAIL

REMOVING CONCRETE SIDEWALK

BASE PATCHING CONCRETE. SEE CONSTRUCTION DETAIL
*SHES (CENTER THROUGH LANE)

REMOVING CONCRETE PAVEMENT

X REMOVE TREE

YYYYY SAWING ASPHALT

XXXXX SAWING CONCRETE

REMOVING CURB AND GUTTER

JOINT AND CRACK REPAIR. SEE CONSTRUCTION DETAIL

REMOVING PAVEMENT AT INLET. SEE CONSTRUCTION DETAIL

REMOVING PAVEMENT AT MANHOLE. SEE CONSTRUCTION DETAIL

N

404+00

EXISTING ROW

C/L OF ROADWAY

405+00 406+00 407+00 408+00 409+00 410

SECTION LINE

STH 100

REMOVING ASPHALTIC SURFACE

EXISTING ROW

ASPH. DRIVEWAY

30'

410+00

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	REMOVAL PLAN	SHEET 54	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021101-RM.DWG
LAYOUT NAME - 20

PLOT DATE : 11/17/2020 3:18 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

REMOVING ASPHALTIC SURFACE BUTT JOINTS. SEE CONSTRUCTION DETAIL

REMOVING CONCRETE SIDEWALK

BASE PATCHING CONCRETE. SEE CONSTRUCTION DETAIL
*SHES (CENTER THROUGH LANE)

REMOVING CONCRETE PAVEMENT

X — REMOVE TREE

YYYYY — SAWING ASPHALT

XXXXX — SAWING CONCRETE

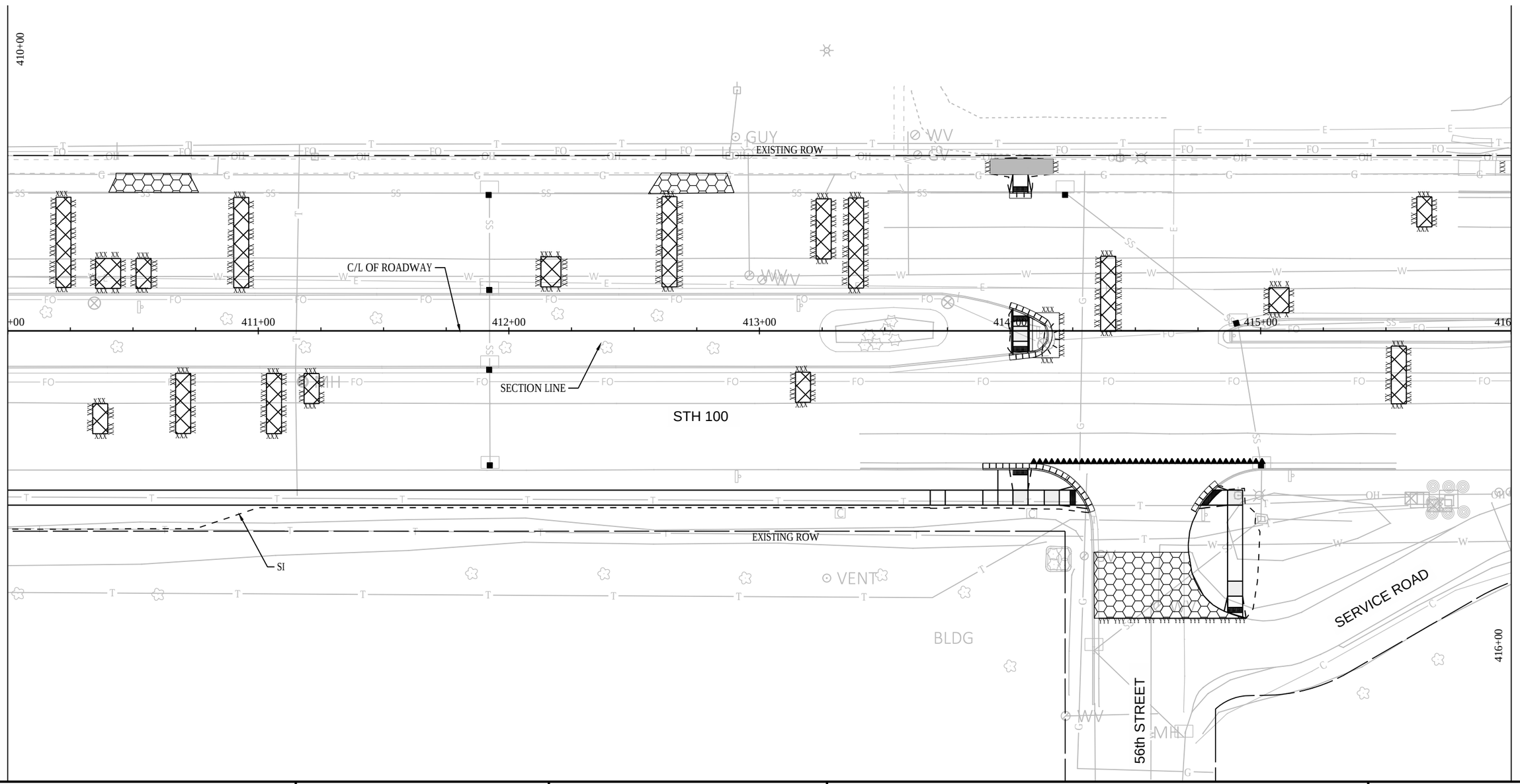
REMOVING CURB AND GUTTER

JOINT AND CRACK REPAIR. SEE CONSTRUCTION DETAIL

REMOVING PAVEMENT AT INLET. SEE CONSTRUCTION DETAIL

REMOVING PAVEMENT AT MANHOLE. SEE CONSTRUCTION DETAIL

N



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	REMOVAL PLAN	SHEET 55	E

FILE NAME : N:\PDS\C3D\215000001\SHEETSPLAN\021101-RM.DWG
LAYOUT NAME - 21

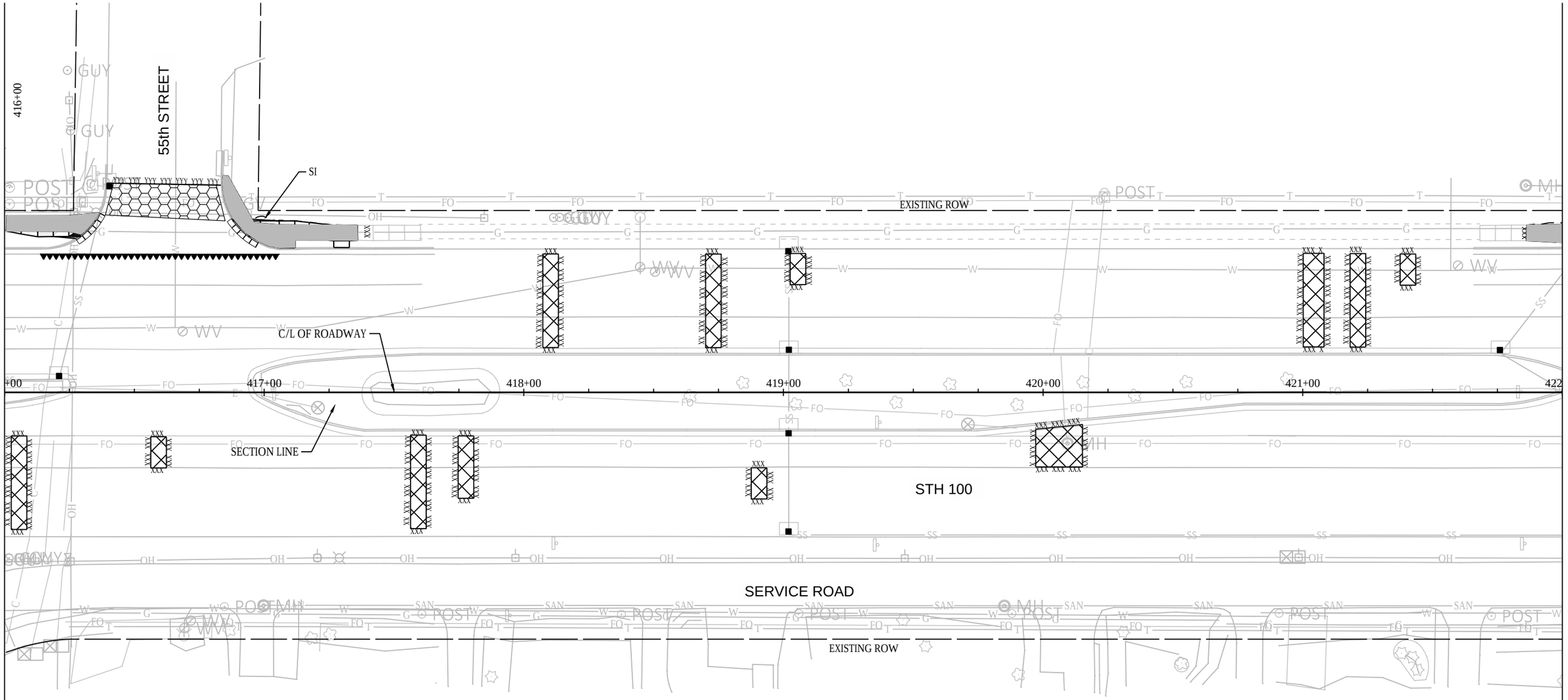
PLOT DATE : 11/17/2020 3:18 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- REMOVING ASPHALTIC SURFACE BUTT JOINTS. SEE CONSTRUCTION DETAIL
- REMOVING CONCRETE SIDEWALK
- BASE PATCHING CONCRETE. SEE CONSTRUCTION DETAIL *SHES (CENTER THROUGH LANE)
- REMOVING CONCRETE PAVEMENT
- X — REMOVE TREE
- YYYYY — SAWING ASPHALT
- XXXXX — SAWING CONCRETE
- REMOVING CURB AND GUTTER
- JOINT AND CRACK REPAIR. SEE CONSTRUCTION DETAIL
- REMOVING PAVEMENT AT INLET. SEE CONSTRUCTION DETAIL
- REMOVING PAVEMENT AT MANHOLE. SEE CONSTRUCTION DETAIL

N



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	REMOVAL PLAN	SHEET 56	E

FILE NAME : N:\PDS\C3D\215000001\SHEETSPLAN\021101-RM.DWG
LAYOUT NAME - 22

PLOT DATE : 11/17/2020 3:18 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- REMOVING ASPHALTIC SURFACE BUTT JOINTS. SEE CONSTRUCTION DETAIL
- REMOVING CONCRETE SIDEWALK
- BASE PATCHING CONCRETE. SEE CONSTRUCTION DETAIL *SHES (CENTER THROUGH LANE)
- REMOVING CONCRETE PAVEMENT
- X — REMOVE TREE
- YYYYY — SAWING ASPHALT
- XXXXX — SAWING CONCRETE
- REMOVING CURB AND GUTTER
- JOINT AND CRACK REPAIR. SEE CONSTRUCTION DETAIL
- REMOVING PAVEMENT AT INLET. SEE CONSTRUCTION DETAIL
- REMOVING PAVEMENT AT MANHOLE. SEE CONSTRUCTION DETAIL

N

2

422+00

SI

EXISTING ROW

C/L OF ROADWAY

MH

423+00

424+00

425+00

426+00

427+00

428

SECTION LINE

STH 100

REMOVING ASPHALTIC SURFACE

SERVICE ROAD

EXISTING ROW

EXISTING ROW

52nd STREET

428+00

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	REMOVAL PLAN	SHEET 57	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021101-RM.DWG
LAYOUT NAME - 23

PLOT DATE : 11/17/2020 3:19 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

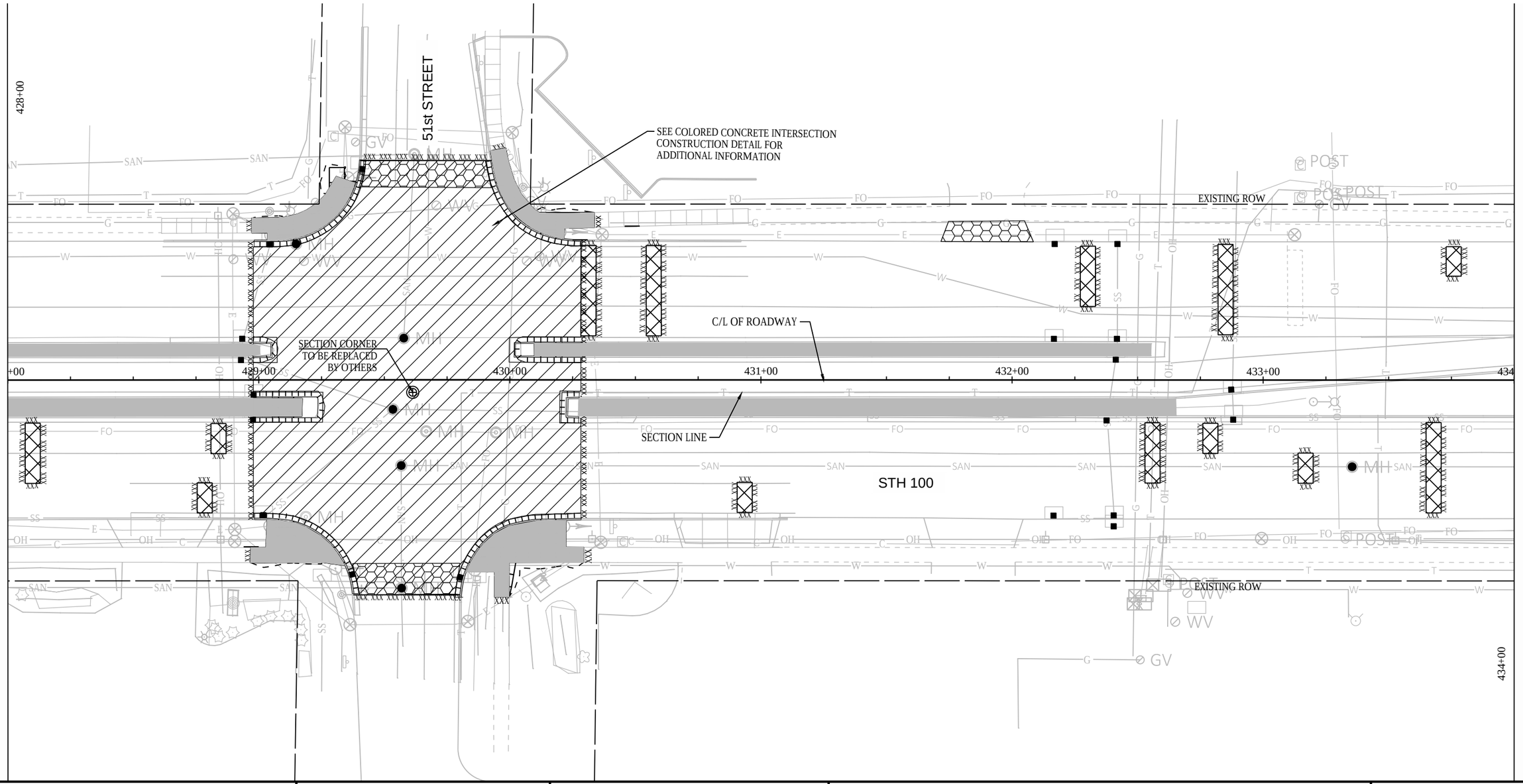
2

LEGEND

- REMOVING ASPHALTIC SURFACE BUTT JOINTS. SEE CONSTRUCTION DETAIL
- REMOVING CONCRETE SIDEWALK
- BASE PATCHING CONCRETE. SEE CONSTRUCTION DETAIL *SHES (CENTER THROUGH LANE)
- REMOVING CONCRETE PAVEMENT
- X — REMOVE TREE
- YYYYY — SAWING ASPHALT
- XXXXX — SAWING CONCRETE
- REMOVING CURB AND GUTTER
- JOINT AND CRACK REPAIR. SEE CONSTRUCTION DETAIL
- REMOVING PAVEMENT AT INLET. SEE CONSTRUCTION DETAIL
- REMOVING PAVEMENT AT MANHOLE. SEE CONSTRUCTION DETAIL

N

2



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	REMOVAL PLAN	SHEET 58	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021101-RM.DWG
LAYOUT NAME - 24

PLOT DATE : 11/17/2020 3:19 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

REMOVING ASPHALTIC SURFACE BUTT JOINTS. SEE CONSTRUCTION DETAIL

REMOVING CONCRETE SIDEWALK

BASE PATCHING CONCRETE. SEE CONSTRUCTION DETAIL
*SHES (CENTER THROUGH LANE)

REMOVING CONCRETE PAVEMENT

X — REMOVE TREE

YYYYY — SAWING ASPHALT

XXXXX — SAWING CONCRETE

REMOVING CURB AND GUTTER

JOINT AND CRACK REPAIR. SEE CONSTRUCTION DETAIL

REMOVING PAVEMENT AT INLET. SEE CONSTRUCTION DETAIL

REMOVING PAVEMENT AT MANHOLE. SEE CONSTRUCTION DETAIL

N

434+00

EXISTING ROW

SI

TLE

C/L OF ROADWAY

SECTION LINE

435+00

436+00

437+00

438+00

439+00

440

STH 100

EXISTING ROW

440+00

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	REMOVAL PLAN	SHEET 59	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021101-RM.DWG
LAYOUT NAME - 25

PLOT DATE : 11/17/2020 3:19 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

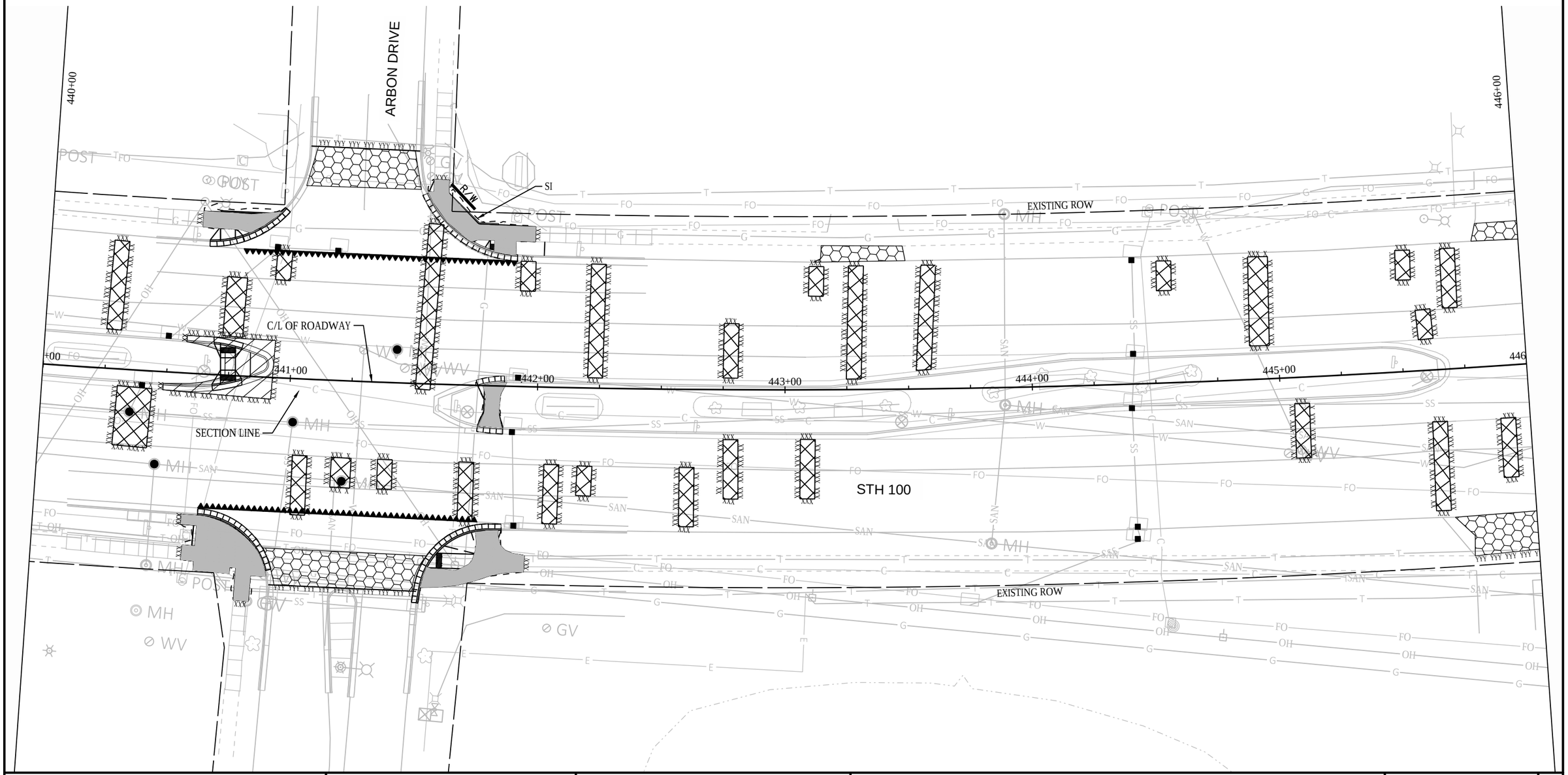
2

LEGEND

- REMOVING ASPHALTIC SURFACE BUTT JOINTS. SEE CONSTRUCTION DETAIL
- REMOVING CONCRETE SIDEWALK
- BASE PATCHING CONCRETE. SEE CONSTRUCTION DETAIL *SHES (CENTER THROUGH LANE)
- REMOVING CONCRETE PAVEMENT
- X — REMOVE TREE
- YYYYY — SAWING ASPHALT
- XXXXX — SAWING CONCRETE
- REMOVING CURB AND GUTTER
- JOINT AND CRACK REPAIR. SEE CONSTRUCTION DETAIL
- REMOVING PAVEMENT AT INLET. SEE CONSTRUCTION DETAIL
- REMOVING PAVEMENT AT MANHOLE. SEE CONSTRUCTION DETAIL

N

2



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	REMOVAL PLAN	SHEET 60	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021101-RM.DWG
LAYOUT NAME - 26

PLOT DATE : 11/17/2020 3:20 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- REMOVING ASPHALTIC SURFACE BUTT JOINTS. SEE CONSTRUCTION DETAIL
- REMOVING CONCRETE SIDEWALK
- BASE PATCHING CONCRETE. SEE CONSTRUCTION DETAIL *SHES (CENTER THROUGH LANE)
- REMOVING CONCRETE PAVEMENT
- X — REMOVE TREE
- YYYYY — SAWING ASPHALT
- XXXXX — SAWING CONCRETE
- REMOVING CURB AND GUTTER
- JOINT AND CRACK REPAIR. SEE CONSTRUCTION DETAIL
- REMOVING PAVEMENT AT INLET. SEE CONSTRUCTION DETAIL
- REMOVING PAVEMENT AT MANHOLE. SEE CONSTRUCTION DETAIL

N

2

RAILROAD

EXISTING ROW

POST

POST

C/L OF ROADWAY

SECTION LINE

447+00

448+00

449+00

450+00

451+00

446+00

STH 100

END PROJECT
STA 447+42.00

EXISTING ROW

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	REMOVAL PLAN	SHEET 61	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021101-RM.DWG
LAYOUT NAME - 27

PLOT DATE : 11/17/2020 3:20 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

31S	CONCRETE CURB AND GUTTER 31-INCH, SPECIAL	P4	MILL 4", 4" HMA PAVEMENT	MH	ADJUSTING MANHOLE COVERS OR RECONSTRUCTING MANHOLES (TO BE FIELD DETERMINED)
SW5	CONCRETE SIDEWALK 5-INCH	P6	6 1/4" HMA PAVEMENT, 12" BASE AGGREGATE DENSE 1 1/4"	REC	RECONSTRUCTING INLETS
DWC	CONCRETE DRIVEWAY HES 6-INCH	MBN	CONCRETE MEDIAN BLUNT NOSE	ADJ	ADJUSTING INLET COVERS
CB08	CONCRETE BASE 8-INCH	MSN	CONCRETE MEDIAN SLOPED NOSE (SEE TYPE ON PLAN SHEET)		

ASPHALTIC SURFACE TEMPORARY (BUTT JOINTS) OR HMA 4MT58-28 S (DRIVEWAYS) SEE CONSTRUCTION DETAILS

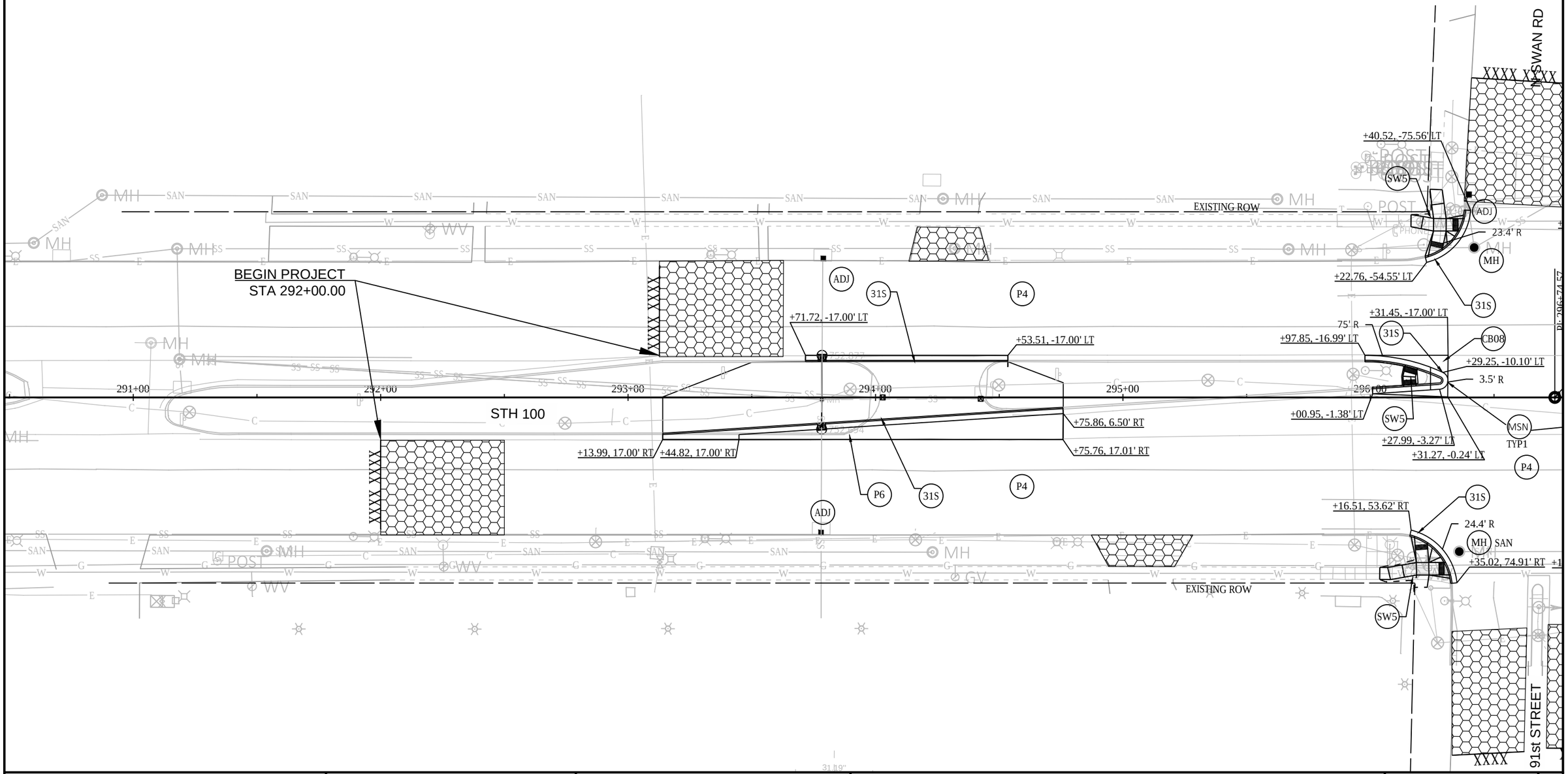
BUS STOP PAD (6' WIDTH TYPICAL) TO BE PAID AS CONCRETE SIDEWALK 5-INCH

FULL DEPTH COLORED CONCRETE (SEE CONSTRUCTION DETAIL)

NOTES

SEE CONSTRUCTION DETAILS FOR ADDITIONAL PAY ITEMS FOR ADJUSTING OR RECONSTRUCTIONG INLETS AND MANHOLES.

N



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 62	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 01

PLOT DATE : 11/17/2020 3:53 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

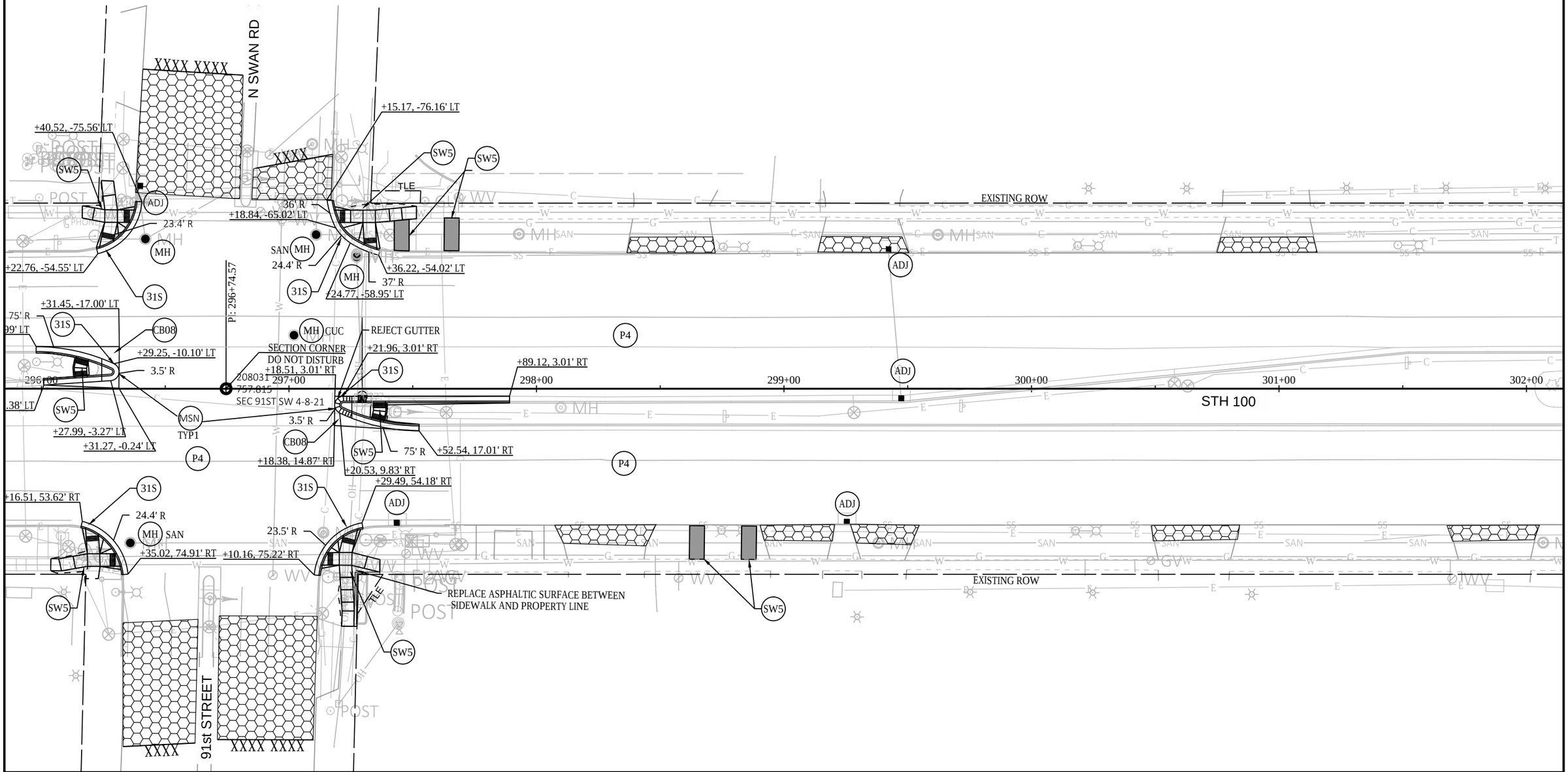
31S	CONCRETE CURB AND GUTTER 31-INCH, SPECIAL	P4	MILL 4", 4" HMA PAVEMENT	MH	ADJUSTING MANHOLE COVERS OR RECONSTRUCTING MANHOLES (TO BE FIELD DETERMINED)		ASPHALTIC SURFACE TEMPORARY (BUTT JOINTS) OR HMA 4MT58-28 S (DRIVEWAYS) SEE CONSTRUCTION DETAILS
SW5	CONCRETE SIDEWALK 5-INCH	P6	6 1/4" HMA PAVEMENT, 12" BASE AGGREGATE DENSE 1 1/4"	REC	RECONSTRUCTING INLETS		BUS STOP PAD (6' WIDTH TYPICAL) TO BE PAID AS CONCRETE SIDEWALK 5-INCH
DWC	CONCRETE DRIVEWAY HES 6-INCH	MBN	CONCRETE MEDIAN BLUNT NOSE	ADJ	ADJUSTING INLET COVERS		FULL DEPTH COLORED CONCRETE (SEE CONSTRUCTION DETAIL)
CB08	CONCRETE BASE 8-INCH	MSN	CONCRETE MEDIAN SLOPED NOSE (SEE TYPE ON PLAN SHEET)				

NOTES

SEE CONSTRUCTION DETAILS FOR ADDITIONAL PAY ITEMS FOR ADJUSTING OR RECONSTRUCTIONG INLETS AND MANHOLES.

N

2



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 63	E

2

LEGEND

31S	CONCRETE CURB AND GUTTER 31-INCH, SPECIAL	P4	MILL 4", 4" HMA PAVEMENT	MH	ADJUSTING MANHOLE COVERS OR RECONSTRUCTING MANHOLES (TO BE FIELD DETERMINED)
SW5	CONCRETE SIDEWALK 5-INCH	P6	6 1/4" HMA PAVEMENT, 12" BASE AGGREGATE DENSE 1 1/4"	REC	RECONSTRUCTING INLETS
DWC	CONCRETE DRIVEWAY HES 6-INCH	MBN	CONCRETE MEDIAN BLUNT NOSE	ADJ	ADJUSTING INLET COVERS
CB08	CONCRETE BASE 8-INCH	MSN	CONCRETE MEDIAN SLOPED NOSE (SEE TYPE ON PLAN SHEET)		

ASPHALTIC SURFACE TEMPORARY (BUTT JOINTS) OR HMA 4MT58-28 S (DRIVEWAYS) SEE CONSTRUCTION DETAILS

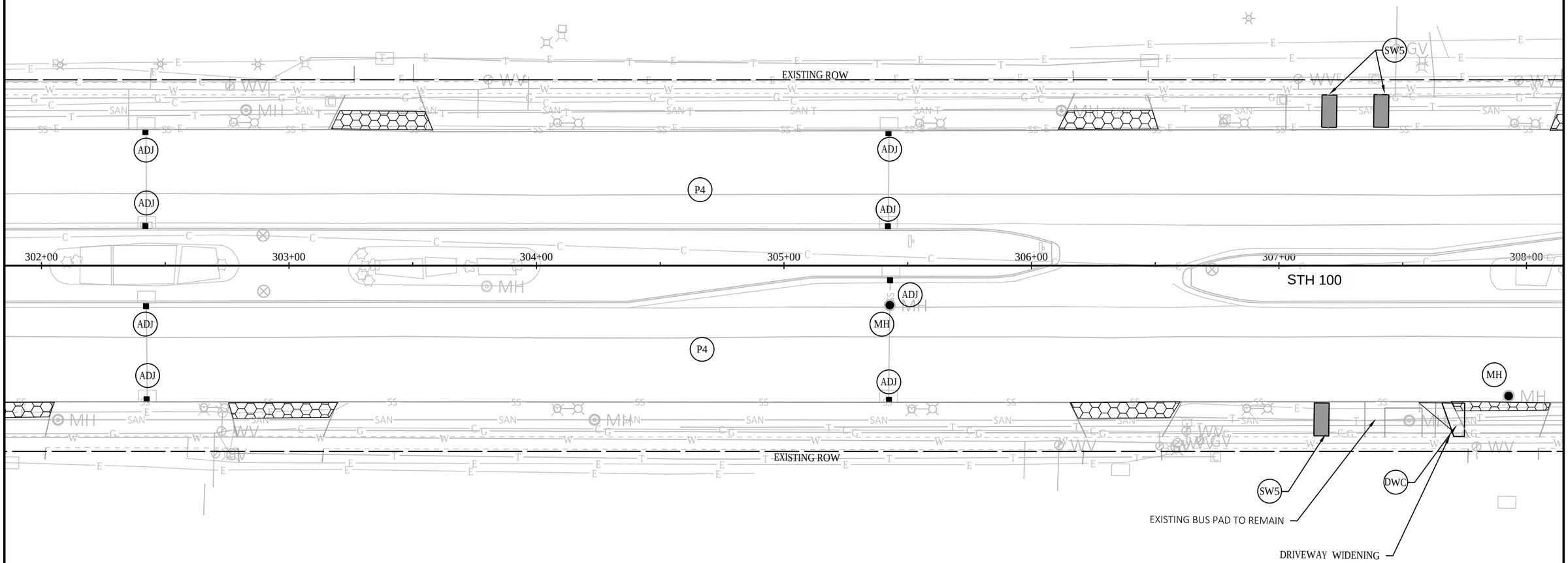
BUS STOP PAD (6' WIDTH TYPICAL) TO BE PAID AS CONCRETE SIDEWALK 5-INCH

FULL DEPTH COLORED CONCRETE (SEE CONSTRUCTION DETAIL)

NOTES

SEE CONSTRUCTION DETAILS FOR ADDITIONAL PAY ITEMS FOR ADJUSTING OR RECONSTRUCTIONG INLETS AND MANHOLES.

N



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 64	E

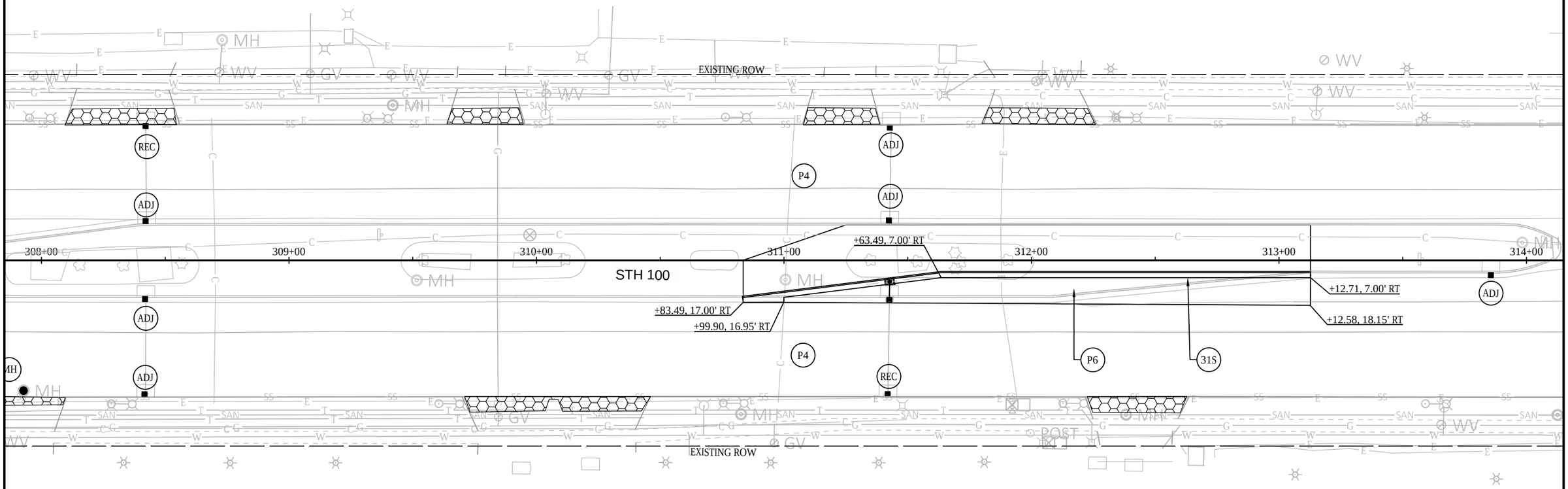
LEGEND

31S	CONCRETE CURB AND GUTTER 31-INCH, SPECIAL	P4	MILL 4", 4" HMA PAVEMENT	MH	ADJUSTING MANHOLE COVERS OR RECONSTRUCTING MANHOLES (TO BE FIELD DETERMINED)		ASPHALTIC SURFACE TEMPORARY (BUTT JOINTS) OR HMA 4MT58-28 S (DRIVEWAYS) SEE CONSTRUCTION DETAILS
SW5	CONCRETE SIDEWALK 5-INCH	P6	6 1/4" HMA PAVEMENT, 12" BASE AGGREGATE DENSE 1 1/4"	REC	RECONSTRUCTING INLETS		BUS STOP PAD (6' WIDTH TYPICAL) TO BE PAID AS CONCRETE SIDEWALK 5-INCH
DWC	CONCRETE DRIVEWAY HES 6-INCH	MBN	CONCRETE MEDIAN BLUNT NOSE	ADJ	ADJUSTING INLET COVERS		FULL DEPTH COLORED CONCRETE (SEE CONSTRUCTION DETAIL)
CB08	CONCRETE BASE 8-INCH	MSN	CONCRETE MEDIAN SLOPED NOSE (SEE TYPE ON PLAN SHEET)				

NOTES

SEE CONSTRUCTION DETAILS FOR ADDITIONAL PAY ITEMS FOR ADJUSTING OR RECONSTRUCTIONG INLETS AND MANHOLES.

N



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 65	E

FILE NAME : N:\PDS\C3D\215000001\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 04

PLOT DATE : 11/17/2020 3:54 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

31S	CONCRETE CURB AND GUTTER 31-INCH, SPECIAL	P4	MILL 4", 4" HMA PAVEMENT	MH	ADJUSTING MANHOLE COVERS OR RECONSTRUCTING MANHOLES (TO BE FIELD DETERMINED)
SW5	CONCRETE SIDEWALK 5-INCH	P6	6 1/4" HMA PAVEMENT, 12" BASE AGGREGATE DENSE 1 1/4"	REC	RECONSTRUCTING INLETS
DWC	CONCRETE DRIVEWAY HES 6-INCH	MBN	CONCRETE MEDIAN BLUNT NOSE	ADJ	ADJUSTING INLET COVERS
CB08	CONCRETE BASE 8-INCH	MSN	CONCRETE MEDIAN SLOPED NOSE (SEE TYPE ON PLAN SHEET)		

ASPHALTIC SURFACE TEMPORARY (BUTT JOINTS) OR HMA 4MT58-28 S (DRIVEWAYS) SEE CONSTRUCTION DETAILS

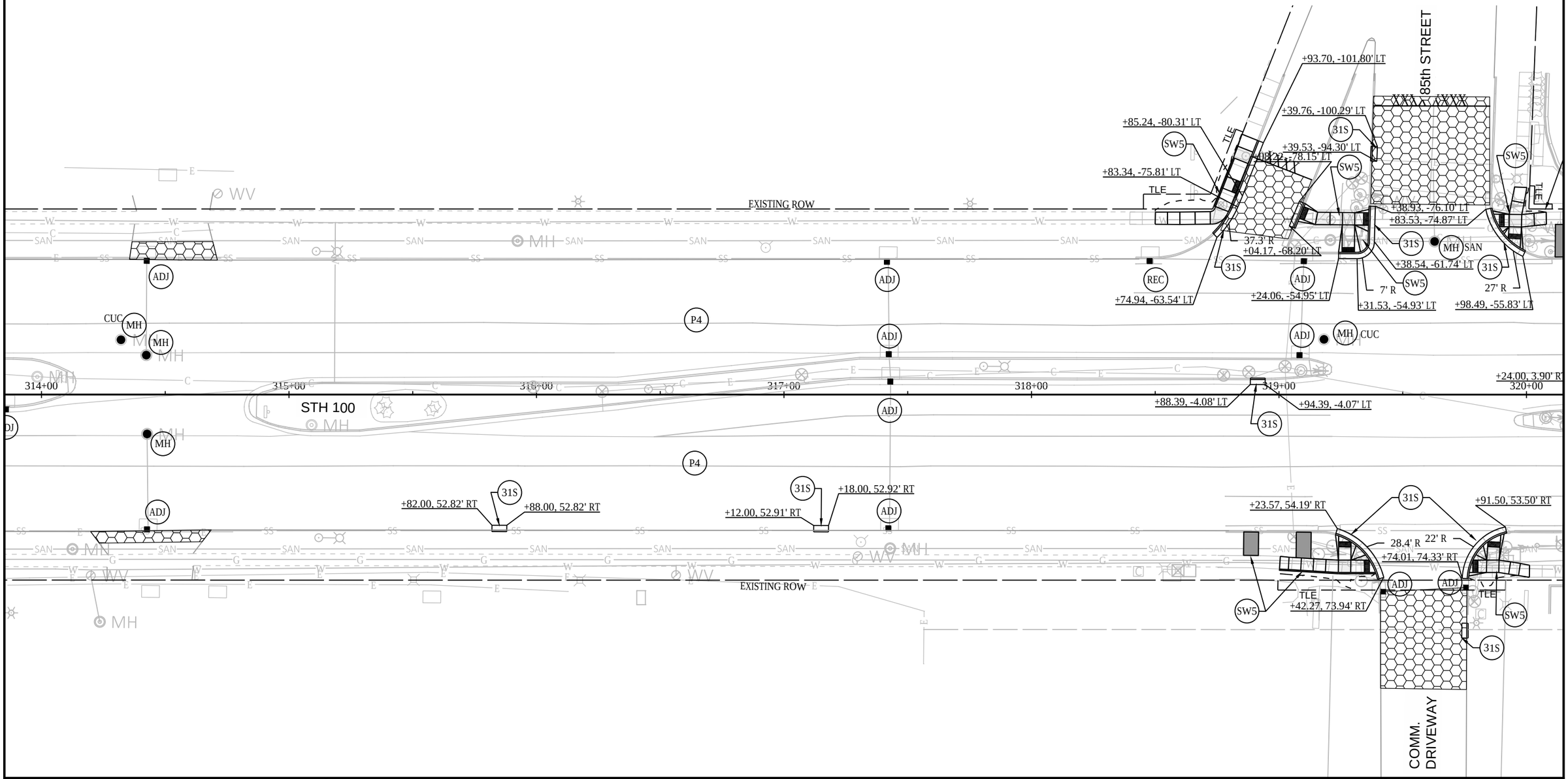
BUS STOP PAD (6' WIDTH TYPICAL) TO BE PAID AS CONCRETE SIDEWALK 5-INCH

FULL DEPTH COLORED CONCRETE (SEE CONSTRUCTION DETAIL)

NOTES

SEE CONSTRUCTION DETAILS FOR ADDITIONAL PAY ITEMS FOR ADJUSTING OR RECONSTRUCTIONG INLETS AND MANHOLES.

N



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 66	E

FILE NAME : N:\PDS\C3D\215000001\SHEETSPLAN\0212O1-PD.DWG
LAYOUT NAME - 05

PLOT DATE : 11/17/2020 3:55 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:40 FT

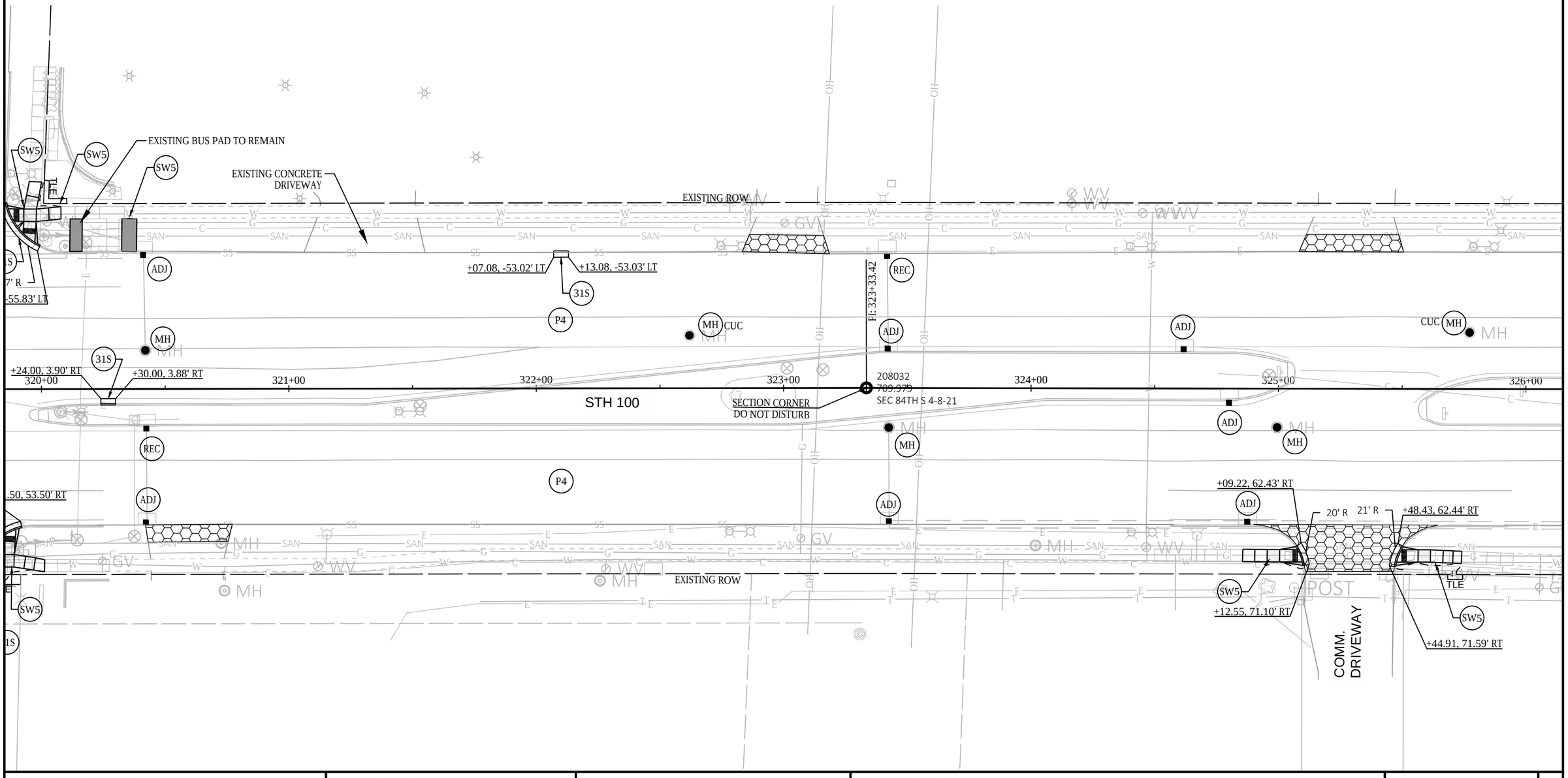
LEGEND

31S	CONCRETE CURB AND GUTTER 31-INCH, SPECIAL	P4	MILL 4", 4" HMA PAVEMENT	MH	ADJUSTING MANHOLE COVERS OR RECONSTRUCTING MANHOLES (TO BE FIELD DETERMINED)		ASPHALTIC SURFACE TEMPORARY (BUTT JOINTS) OR HMA 4MT58-28 S (DRIVEWAYS) SEE CONSTRUCTION DETAILS
SW5	CONCRETE SIDEWALK 5-INCH	P6	6 1/4" HMA PAVEMENT, 12" BASE AGGREGATE DENSE 1 1/4"	REC	RECONSTRUCTING INLETS		BUS STOP PAD (6' WIDTH TYPICAL) TO BE PAID AS CONCRETE SIDEWALK 5-INCH
DWC	CONCRETE DRIVEWAY HES 6-INCH	MBN	CONCRETE MEDIAN BLUNT NOSE	ADJ	ADJUSTING INLET COVERS		FULL DEPTH COLORED CONCRETE (SEE CONSTRUCTION DETAIL)
CB08	CONCRETE BASE 8-INCH	MSN	CONCRETE MEDIAN SLOPED NOSE (SEE TYPE ON PLAN SHEET)				

NOTES

SEE CONSTRUCTION DETAILS FOR ADDITIONAL PAY ITEMS FOR ADJUSTING OR RECONSTRUCTIONG INLETS AND MANHOLES.

N



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 67	E

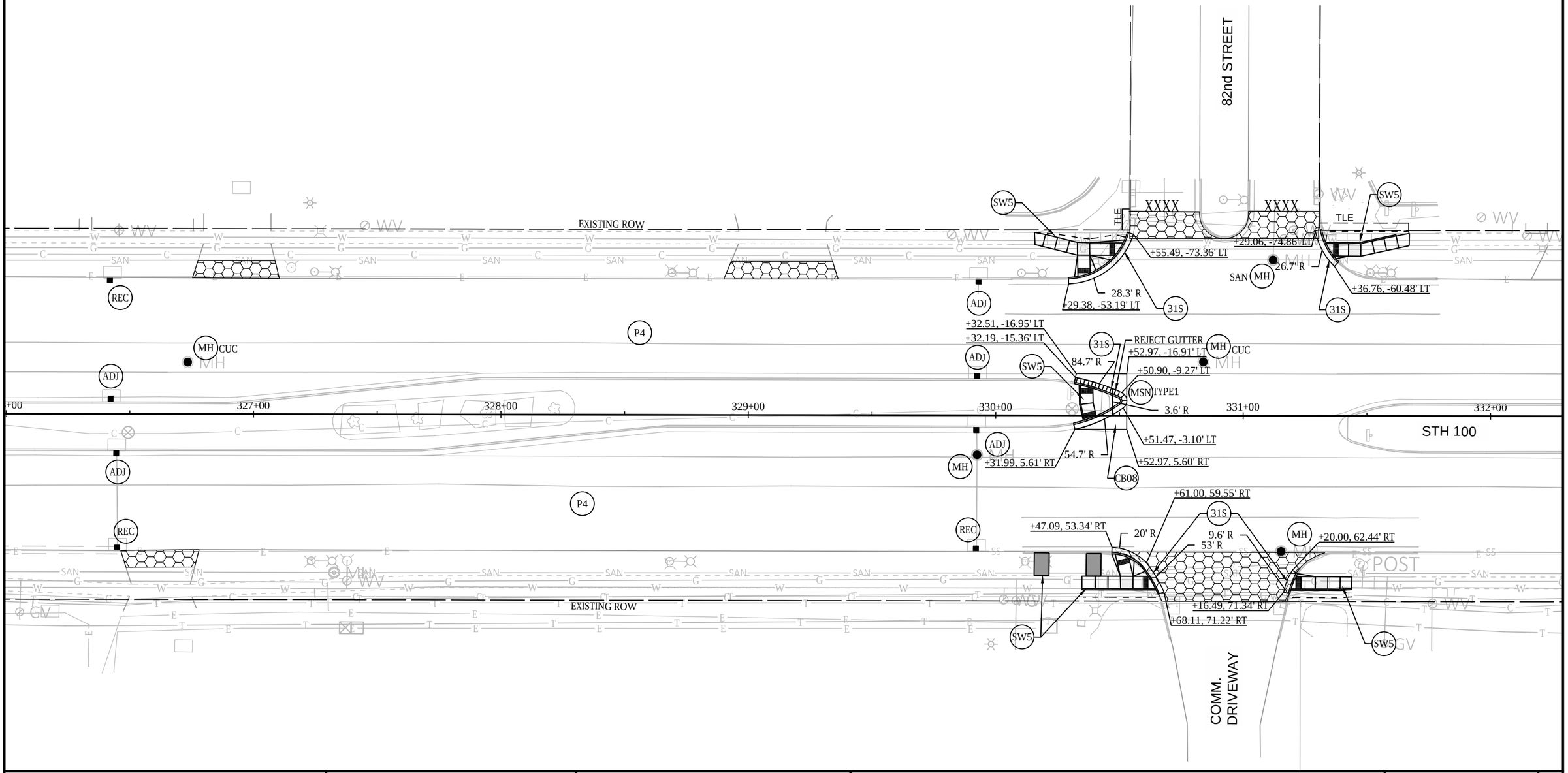
LEGEND

31S	CONCRETE CURB AND GUTTER 31-INCH, SPECIAL	P4	MILL 4", 4" HMA PAVEMENT	MH	ADJUSTING MANHOLE COVERS OR RECONSTRUCTING MANHOLES (TO BE FIELD DETERMINED)		ASPHALTIC SURFACE TEMPORARY (BUTT JOINTS) OR HMA 4MT58-28 S (DRIVEWAYS) SEE CONSTRUCTION DETAILS
SW5	CONCRETE SIDEWALK 5-INCH	P6	6 1/4" HMA PAVEMENT, 12" BASE AGGREGATE DENSE 1 1/4"	REC	RECONSTRUCTING INLETS		BUS STOP PAD (6' WIDTH TYPICAL) TO BE PAID AS CONCRETE SIDEWALK 5-INCH
DWC	CONCRETE DRIVEWAY HES 6-INCH	MBN	CONCRETE MEDIAN BLUNT NOSE	ADJ	ADJUSTING INLET COVERS		FULL DEPTH COLORED CONCRETE (SEE CONSTRUCTION DETAIL)
CB08	CONCRETE BASE 8-INCH	MSN	CONCRETE MEDIAN SLOPED NOSE (SEE TYPE ON PLAN SHEET)				

NOTES

SEE CONSTRUCTION DETAILS FOR ADDITIONAL PAY ITEMS FOR ADJUSTING OR RECONSTRUCTIONG INLETS AND MANHOLES.

N



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 68	E

2

LEGEND

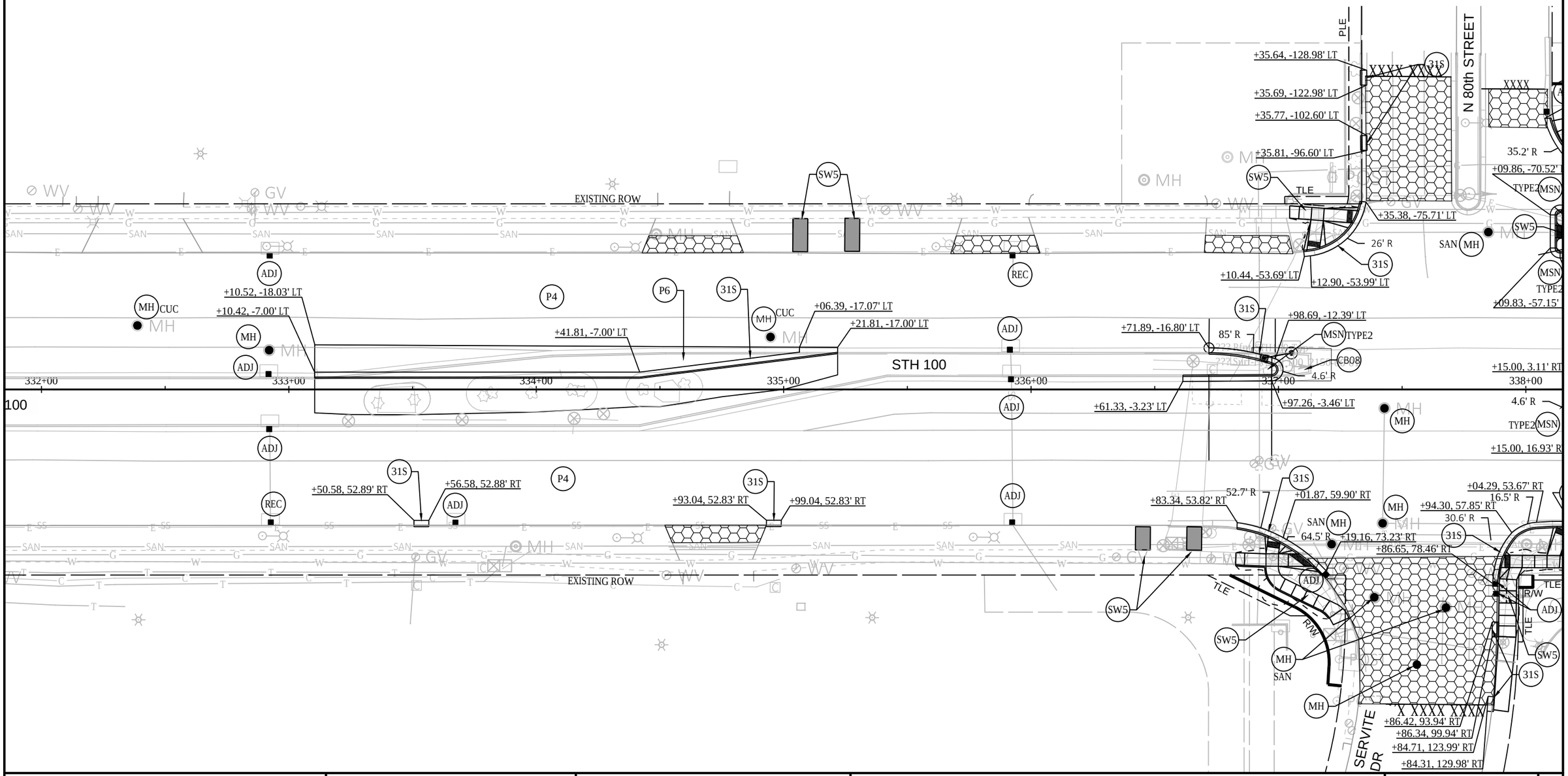
31S	CONCRETE CURB AND GUTTER 31-INCH, SPECIAL	P4	MILL 4", 4" HMA PAVEMENT	MH	ADJUSTING MANHOLE COVERS OR RECONSTRUCTING MANHOLES (TO BE FIELD DETERMINED)		ASPHALTIC SURFACE TEMPORARY (BUTT JOINTS) OR HMA 4MT58-28 S (DRIVEWAYS) SEE CONSTRUCTION DETAILS
SW5	CONCRETE SIDEWALK 5-INCH	P6	6 1/4" HMA PAVEMENT, 12" BASE AGGREGATE DENSE 1 1/4"	REC	RECONSTRUCTING INLETS		BUS STOP PAD (6' WIDTH TYPICAL) TO BE PAID AS CONCRETE SIDEWALK 5-INCH
DWC	CONCRETE DRIVEWAY HES 6-INCH	MBN	CONCRETE MEDIAN BLUNT NOSE	ADJ	ADJUSTING INLET COVERS		FULL DEPTH COLORED CONCRETE (SEE CONSTRUCTION DETAIL)
CB08	CONCRETE BASE 8-INCH	MSN	CONCRETE MEDIAN SLOPED NOSE (SEE TYPE ON PLAN SHEET)				

NOTES

SEE CONSTRUCTION DETAILS FOR ADDITIONAL PAY ITEMS FOR ADJUSTING OR RECONSTRUCTIONG INLETS AND MANHOLES.

N

2



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 69	E

2

LEGEND

31S	CONCRETE CURB AND GUTTER 31-INCH, SPECIAL	P4	MILL 4", 4" HMA PAVEMENT	MH	ADJUSTING MANHOLE COVERS OR RECONSTRUCTING MANHOLES (TO BE FIELD DETERMINED)		ASPHALTIC SURFACE TEMPORARY (BUTT JOINTS) OR HMA 4MT58-28 S (DRIVEWAYS) SEE CONSTRUCTION DETAILS
SW5	CONCRETE SIDEWALK 5-INCH	P6	6 1/4" HMA PAVEMENT, 12" BASE AGGREGATE DENSE 1 1/4"	REC	RECONSTRUCTING INLETS		BUS STOP PAD (6' WIDTH TYPICAL) TO BE PAID AS CONCRETE SIDEWALK 5-INCH
DWC	CONCRETE DRIVEWAY HES 6-INCH	MBN	CONCRETE MEDIAN BLUNT NOSE	ADJ	ADJUSTING INLET COVERS		FULL DEPTH COLORED CONCRETE (SEE CONSTRUCTION DETAIL)
CB08	CONCRETE BASE 8-INCH	MSN	CONCRETE MEDIAN SLOPED NOSE (SEE TYPE ON PLAN SHEET)				

NOTES

SEE CONSTRUCTION DETAILS FOR ADDITIONAL PAY ITEMS FOR ADJUSTING OR RECONSTRUCTIONG INLETS AND MANHOLES.

N

2

N 80th ST.

XXXX

ADJ +07.63, -109.52' LT
+20.72, -89.55' LT
SW5
+35.63, -83.28' LT
35.2' R
R/W
+50.06, -79.29' LT
STA 338+50 - 338+77
REMOVE AND REPLACE IN KIND.
MATCH EXISTING SIDEWALK ELEVATIONS.
+09.86, -70.52' LT
TYPE2 MSN
73.7' R
+15.03, -74.34' LT
31S
SW5
+58.98, -60.86' LT
4' R
MSN TYPE1
+57.79, -53.03' LT
MSN TYPE2
+09.83, -57.15' LT
+13.82, -53.14' LT
EXISTING ROW
+31.41, -52.95' LT
+37.41, -52.94' LT
31S
P4
ADJ +61.42, -52.35' LT
+67.42, -52.37' LT
31S
CUC
MH
MH
MH
MH
CUC
MH
CUC
+15.00, 3.11' RT
+19.89, 3.11' RT
+52.09, 3.12' RT
SW5
ADJ
338+00
339+00
340+00
ADJ
341+00
342+00
343+00
344+00
STH 100
4.6' R
TYPE2 MSN
31S
75' R
+15.00, 16.93' RT
+44.74, 16.79' RT
ADJ
REC
CB08
+18.28, 11.98' RT
ADJ
REC
MH
P4
REC
MH
+25.38, 53.22' RT
TLE
R/W
TLE
ADJ
SW5
SW5
31S
EXISTING ROW
MH
MH
MH
+81.32, 74.69' RT
SW5
ADJ
31S
+90.64, 80.21' RT
+69.82, 89.01' RT
STH 181/76th ST SB ON-RAMP
+81.32, 95.85' RT
SW5

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 70	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 09
PLOT DATE : 11/17/2020 3:56 PM
PLOT BY : SCHMIDT, JUDENE M
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

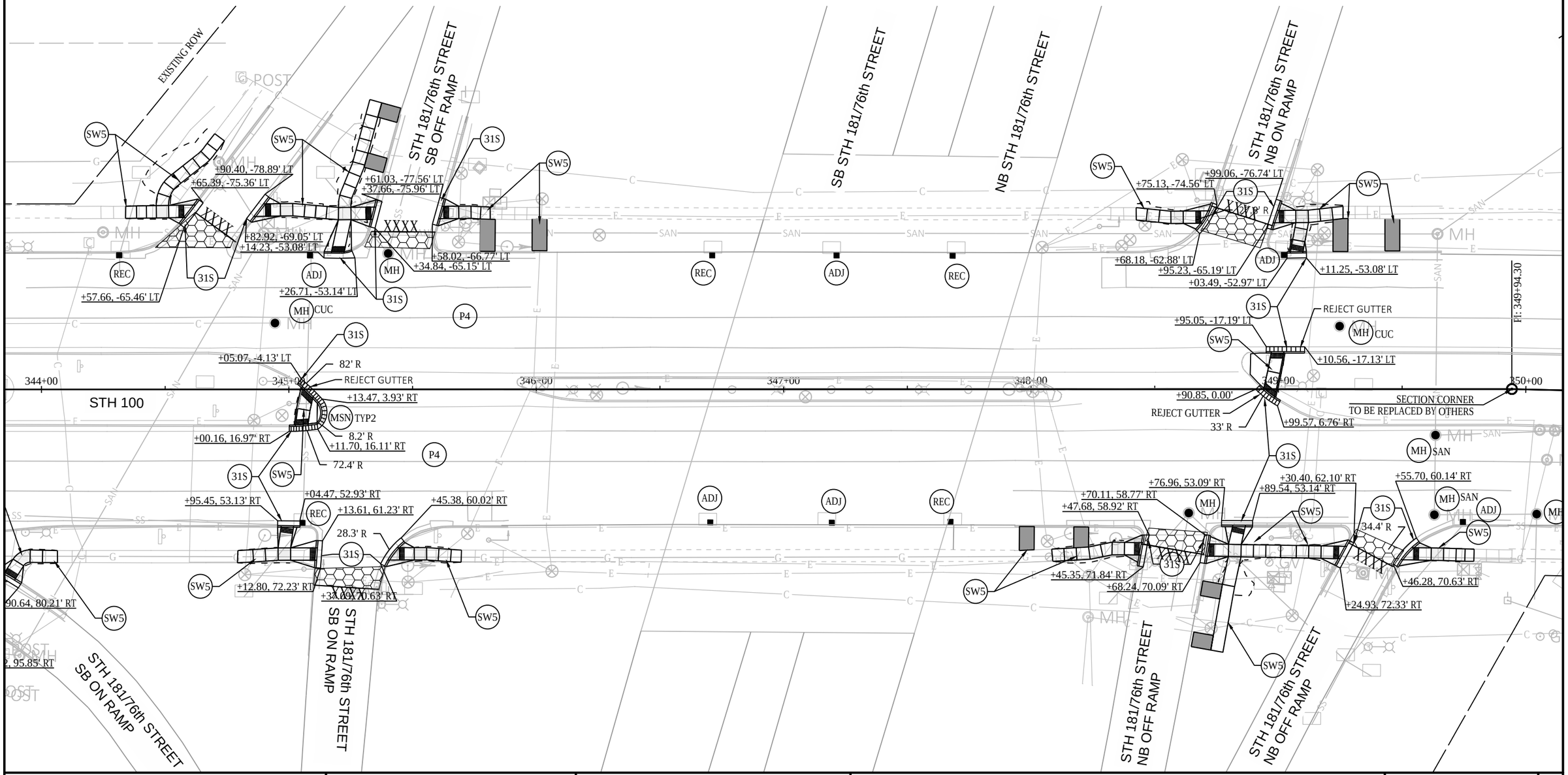
LEGEND

31S	CONCRETE CURB AND GUTTER 31-INCH, SPECIAL	P4	MILL 4", 4" HMA PAVEMENT	MH	ADJUSTING MANHOLE COVERS OR RECONSTRUCTING MANHOLES (TO BE FIELD DETERMINED)		ASPHALTIC SURFACE TEMPORARY (BUTT JOINTS) OR HMA 4MT58-28 S (DRIVEWAYS) SEE CONSTRUCTION DETAILS
SW5	CONCRETE SIDEWALK 5-INCH	P6	6 1/4" HMA PAVEMENT, 12" BASE AGGREGATE DENSE 1 1/4"	REC	RECONSTRUCTING INLETS		BUS STOP PAD (6' WIDTH TYPICAL) TO BE PAID AS CONCRETE SIDEWALK 5-INCH
DWC	CONCRETE DRIVEWAY HES 6-INCH	MBN	CONCRETE MEDIAN BLUNT NOSE	ADJ	ADJUSTING INLET COVERS		FULL DEPTH COLORED CONCRETE (SEE CONSTRUCTION DETAIL)
CB08	CONCRETE BASE 8-INCH	MSN	CONCRETE MEDIAN SLOPED NOSE (SEE TYPE ON PLAN SHEET)				

NOTES

SEE CONSTRUCTION DETAILS FOR ADDITIONAL PAY ITEMS FOR ADJUSTING OR RECONSTRUCTIONG INLETS AND MANHOLES.

N



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 71	E

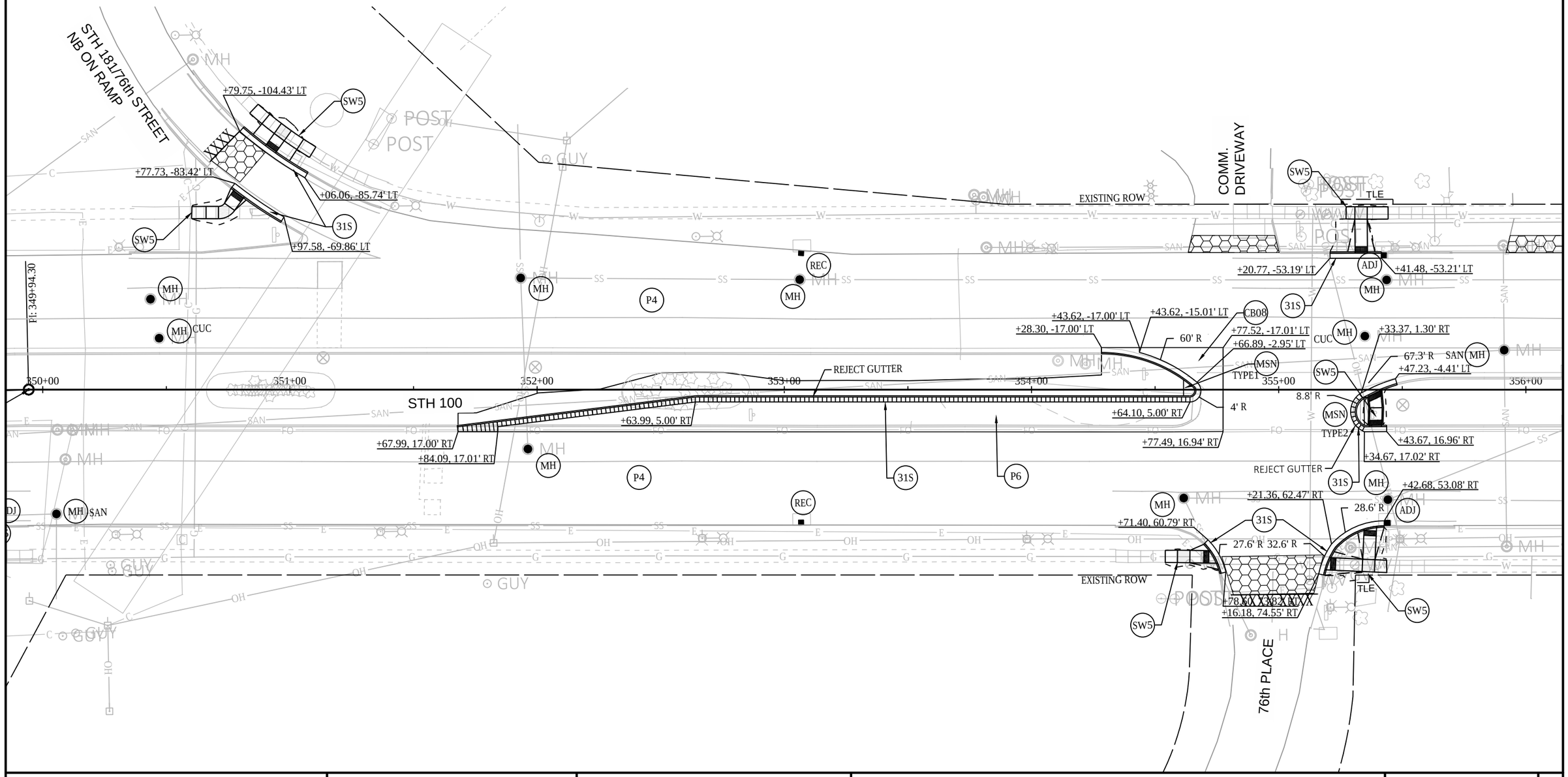
LEGEND

31S	CONCRETE CURB AND GUTTER 31-INCH, SPECIAL	P4	MILL 4", 4" HMA PAVEMENT	MH	ADJUSTING MANHOLE COVERS OR RECONSTRUCTING MANHOLES (TO BE FIELD DETERMINED)		ASPHALTIC SURFACE TEMPORARY (BUTT JOINTS) OR HMA 4MT58-28 S (DRIVEWAYS) SEE CONSTRUCTION DETAILS
SW5	CONCRETE SIDEWALK 5-INCH	P6	6 1/4" HMA PAVEMENT, 12" BASE AGGREGATE DENSE 1 1/4"	REC	RECONSTRUCTING INLETS		BUS STOP PAD (6' WIDTH TYPICAL) TO BE PAID AS CONCRETE SIDEWALK 5-INCH
DWC	CONCRETE DRIVEWAY HES 6-INCH	MBN	CONCRETE MEDIAN BLUNT NOSE	ADJ	ADJUSTING INLET COVERS		FULL DEPTH COLORED CONCRETE (SEE CONSTRUCTION DETAIL)
CB08	CONCRETE BASE 8-INCH	MSN	CONCRETE MEDIAN SLOPED NOSE (SEE TYPE ON PLAN SHEET)				

NOTES

SEE CONSTRUCTION DETAILS FOR ADDITIONAL PAY ITEMS FOR ADJUSTING OR RECONSTRUCTIONG INLETS AND MANHOLES.

N



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 72	E

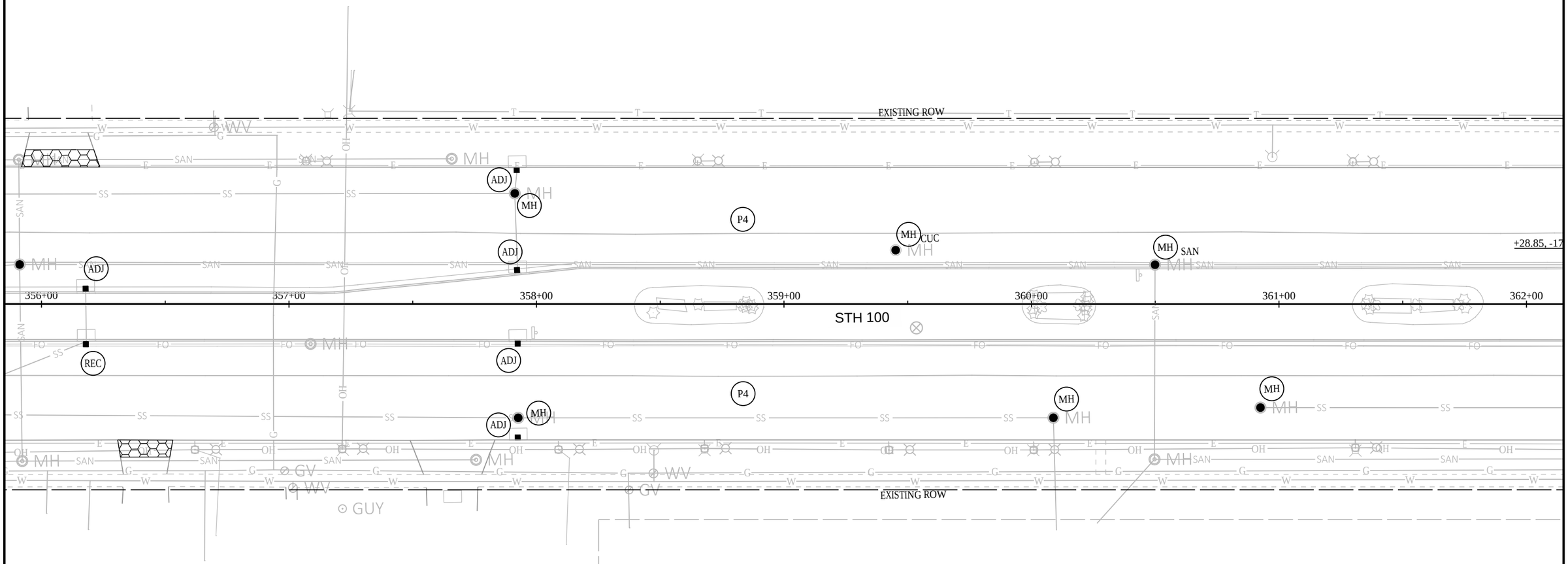
LEGEND

31S	CONCRETE CURB AND GUTTER 31-INCH, SPECIAL	P4	MILL 4", 4" HMA PAVEMENT	MH	ADJUSTING MANHOLE COVERS OR RECONSTRUCTING MANHOLES (TO BE FIELD DETERMINED)		ASPHALTIC SURFACE TEMPORARY (BUTT JOINTS) OR HMA 4MT58-28 S (DRIVEWAYS) SEE CONSTRUCTION DETAILS
SW5	CONCRETE SIDEWALK 5-INCH	P6	6 1/4" HMA PAVEMENT, 12" BASE AGGREGATE DENSE 1 1/4"	REC	RECONSTRUCTING INLETS		BUS STOP PAD (6' WIDTH TYPICAL) TO BE PAID AS CONCRETE SIDEWALK 5-INCH
DWC	CONCRETE DRIVEWAY HES 6-INCH	MBN	CONCRETE MEDIAN BLUNT NOSE	ADJ	ADJUSTING INLET COVERS		FULL DEPTH COLORED CONCRETE (SEE CONSTRUCTION DETAIL)
CB08	CONCRETE BASE 8-INCH	MSN	CONCRETE MEDIAN SLOPED NOSE (SEE TYPE ON PLAN SHEET)				

NOTES

SEE CONSTRUCTION DETAILS FOR ADDITIONAL PAY ITEMS FOR ADJUSTING OR RECONSTRUCTIONG INLETS AND MANHOLES.

N



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 73	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 12

PLOT DATE : 11/17/2020 3:58 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:40 FT

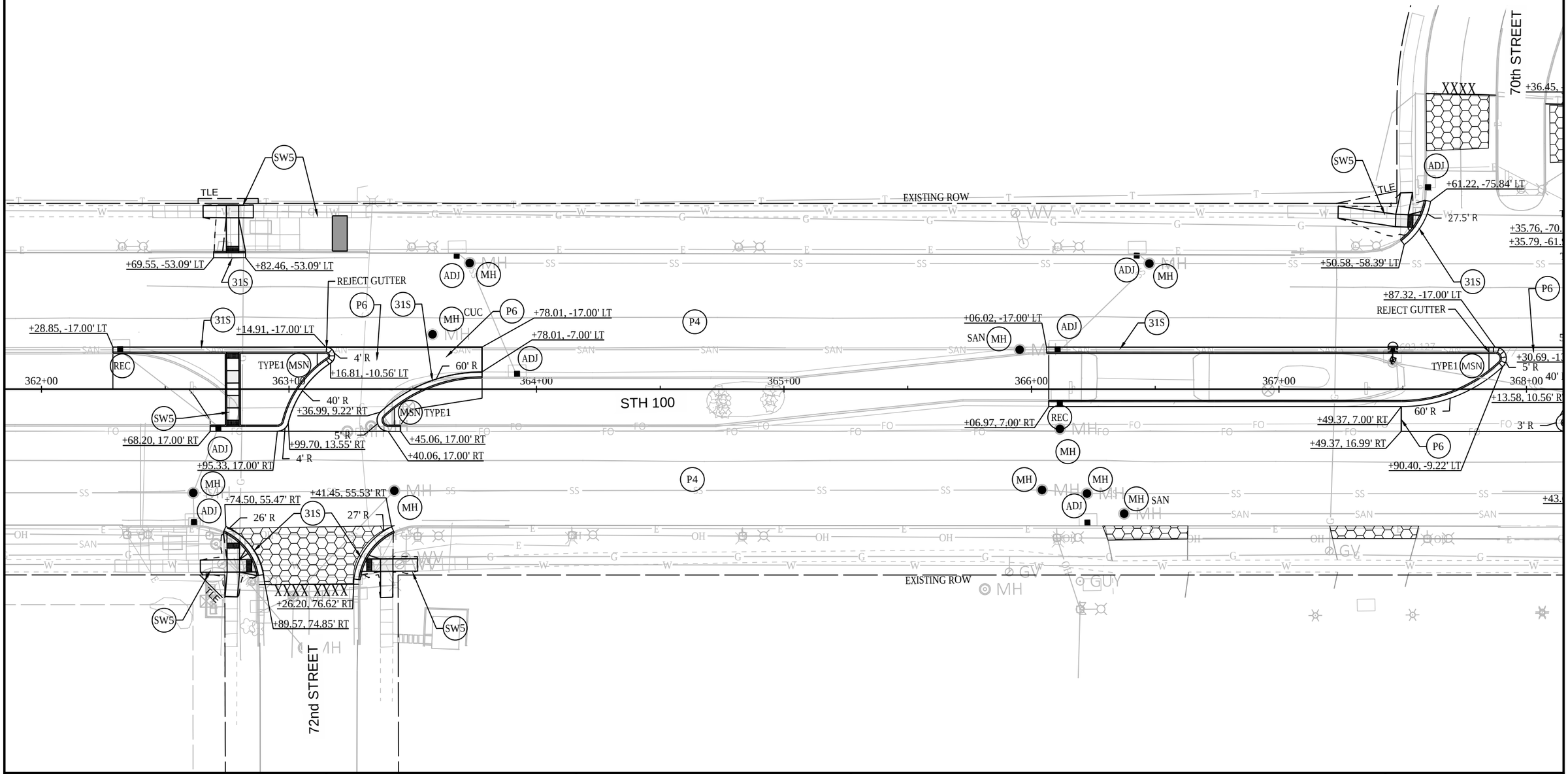
LEGEND

31S	CONCRETE CURB AND GUTTER 31-INCH, SPECIAL	P4	MILL 4", 4" HMA PAVEMENT	MH	ADJUSTING MANHOLE COVERS OR RECONSTRUCTING MANHOLES (TO BE FIELD DETERMINED)		ASPHALTIC SURFACE TEMPORARY (BUTT JOINTS) OR HMA 4MT58-28 S (DRIVEWAYS) SEE CONSTRUCTION DETAILS
SW5	CONCRETE SIDEWALK 5-INCH	P6	6 1/4" HMA PAVEMENT, 12" BASE AGGREGATE DENSE 1 1/4"	REC	RECONSTRUCTING INLETS		BUS STOP PAD (6' WIDTH TYPICAL) TO BE PAID AS CONCRETE SIDEWALK 5-INCH
DWC	CONCRETE DRIVEWAY HES 6-INCH	MBN	CONCRETE MEDIAN BLUNT NOSE	ADJ	ADJUSTING INLET COVERS		FULL DEPTH COLORED CONCRETE (SEE CONSTRUCTION DETAIL)
CB08	CONCRETE BASE 8-INCH	MSN	CONCRETE MEDIAN SLOPED NOSE (SEE TYPE ON PLAN SHEET)				

NOTES

SEE CONSTRUCTION DETAILS FOR ADDITIONAL PAY ITEMS FOR ADJUSTING OR RECONSTRUCTIONG INLETS AND MANHOLES.

N



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 74	E

2

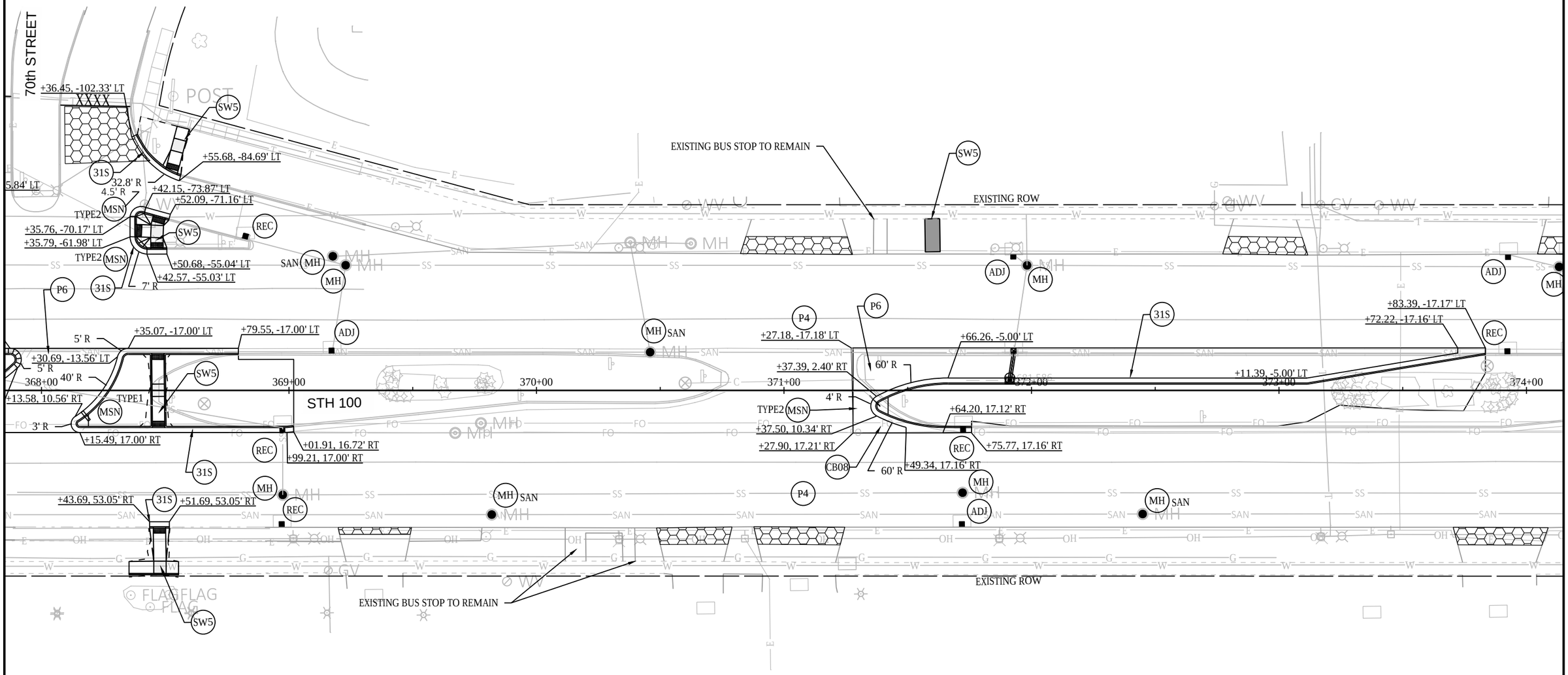
LEGEND

31S	CONCRETE CURB AND GUTTER 31-INCH, SPECIAL	P4	MILL 4", 4" HMA PAVEMENT	MH	ADJUSTING MANHOLE COVERS OR RECONSTRUCTING MANHOLES (TO BE FIELD DETERMINED)		ASPHALTIC SURFACE TEMPORARY (BUTT JOINTS) OR HMA 4MT58-28 S (DRIVEWAYS) SEE CONSTRUCTION DETAILS
SW5	CONCRETE SIDEWALK 5-INCH	P6	6 1/4" HMA PAVEMENT, 12" BASE AGGREGATE DENSE 1 1/4"	REC	RECONSTRUCTING INLETS		BUS STOP PAD (6' WIDTH TYPICAL) TO BE PAID AS CONCRETE SIDEWALK 5-INCH
DWC	CONCRETE DRIVEWAY HES 6-INCH	MBN	CONCRETE MEDIAN BLUNT NOSE	ADJ	ADJUSTING INLET COVERS		FULL DEPTH COLORED CONCRETE (SEE CONSTRUCTION DETAIL)
CB08	CONCRETE BASE 8-INCH	MSN	CONCRETE MEDIAN SLOPED NOSE (SEE TYPE ON PLAN SHEET)				

NOTES

SEE CONSTRUCTION DETAILS FOR ADDITIONAL PAY ITEMS FOR ADJUSTING OR RECONSTRUCTIONG INLETS AND MANHOLES.

N



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 75	E

2

LEGEND

31S	CONCRETE CURB AND GUTTER 31-INCH, SPECIAL	P4	MILL 4", 4" HMA PAVEMENT	MH	ADJUSTING MANHOLE COVERS OR RECONSTRUCTING MANHOLES (TO BE FIELD DETERMINED)
SW5	CONCRETE SIDEWALK 5-INCH	P6	6 1/4" HMA PAVEMENT, 12" BASE AGGREGATE DENSE 1 1/4"	REC	RECONSTRUCTING INLETS
DWC	CONCRETE DRIVEWAY HES 6-INCH	MBN	CONCRETE MEDIAN BLUNT NOSE	ADJ	ADJUSTING INLET COVERS
CB08	CONCRETE BASE 8-INCH	MSN	CONCRETE MEDIAN SLOPED NOSE (SEE TYPE ON PLAN SHEET)		

ASPHALTIC SURFACE TEMPORARY (BUTT JOINTS) OR HMA 4MT58-28 S (DRIVEWAYS) SEE CONSTRUCTION DETAILS

BUS STOP PAD (6' WIDTH TYPICAL) TO BE PAID AS CONCRETE SIDEWALK 5-INCH

FULL DEPTH COLORED CONCRETE (SEE CONSTRUCTION DETAIL)

NOTES

SEE CONSTRUCTION DETAILS FOR ADDITIONAL PAY ITEMS FOR ADJUSTING OR RECONSTRUCTIONG INLETS AND MANHOLES.

N

2

EXISTING ROW
COMM. DRIVEWAY
CLEANING CULVERT PIPE
EXISTING ROW
+72.12, -52.97' LT
+88.73, -53.00' LT
Pl: 376+41.54
B-40-409
Pl: 377+92.34
C/L OF ROADWAY
SECTION LINE
+75.38, -15.18' LT
88' R
+90.29, -11.21' LT
208034
680.090
SEC 68TH S 3-8-21
374+00
375+00
376+00
377+00
378+00
379+00
380+00
STH 100
+90.07, 0.22' RT
SECTION CORNER
DO NOT DISTURB
+75.56, 4.91' RT
114' R
+24.23, -7.00'
+24.23, 5.00'
+24.23, 17.00'
+32.23, 17.00' RT
+48.26, 17.00' RT
+45.95, 53.22' RT
+28.01, 53.00' RT
+88.95, 53.48' RT
+85.01, 52.76' RT
+73.63, 53.09' RT
24' R
22' R
+76.32, 58.04' RT
+90.08, 65.28' RT
EXISTING ROW
EXISTING ROW
SLOPE INTERCEPT, TYP.
DRIVEWAY TYPE Z GRAVEL
DRIVEWAY TYPE Z GRAVEL
68th STREET
BEAVER CREEK

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 76	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 15

PLOT DATE : 11/17/2020 3:59 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

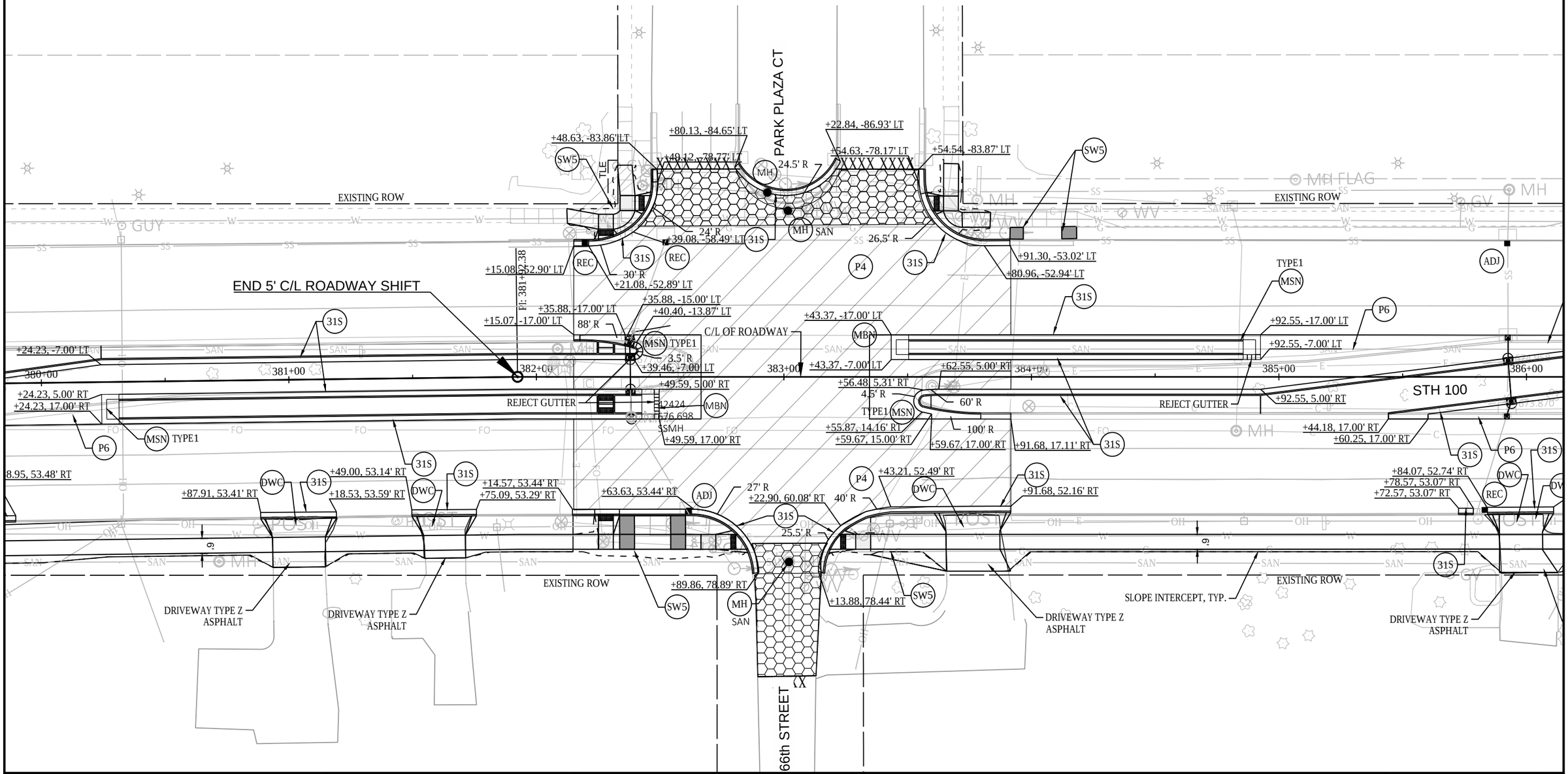
31S	CONCRETE CURB AND GUTTER 31-INCH, SPECIAL	P4	MILL 4", 4" HMA PAVEMENT	MH	ADJUSTING MANHOLE COVERS OR RECONSTRUCTING MANHOLES (TO BE FIELD DETERMINED)		ASPHALTIC SURFACE TEMPORARY (BUTT JOINTS) OR HMA 4MT58-28 S (DRIVEWAYS) SEE CONSTRUCTION DETAILS
SW5	CONCRETE SIDEWALK 5-INCH	P6	6 1/4" HMA PAVEMENT, 12" BASE AGGREGATE DENSE 1 1/4"	REC	RECONSTRUCTING INLETS		BUS STOP PAD (6' WIDTH TYPICAL) TO BE PAID AS CONCRETE SIDEWALK 5-INCH
DWC	CONCRETE DRIVEWAY HES 6-INCH	MBN	CONCRETE MEDIAN BLUNT NOSE	ADJ	ADJUSTING INLET COVERS		FULL DEPTH COLORED CONCRETE (SEE CONSTRUCTION DETAIL)
CB08	CONCRETE BASE 8-INCH	MSN	CONCRETE MEDIAN SLOPED NOSE (SEE TYPE ON PLAN SHEET)				

NOTES

SEE CONSTRUCTION DETAILS FOR ADDITIONAL PAY ITEMS FOR ADJUSTING OR RECONSTRUCTIONG INLETS AND MANHOLES.

N

2



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 77	E

LEGEND

31S	CONCRETE CURB AND GUTTER 31-INCH, SPECIAL	P4	MILL 4", 4" HMA PAVEMENT	MH	ADJUSTING MANHOLE COVERS OR RECONSTRUCTING MANHOLES (TO BE FIELD DETERMINED)
SW5	CONCRETE SIDEWALK 5-INCH	P6	6 1/4" HMA PAVEMENT, 12" BASE AGGREGATE DENSE 1 1/4"	REC	RECONSTRUCTING INLETS
DWC	CONCRETE DRIVEWAY HES 6-INCH	MBN	CONCRETE MEDIAN BLUNT NOSE	ADJ	ADJUSTING INLET COVERS
CB08	CONCRETE BASE 8-INCH	MSN	CONCRETE MEDIAN SLOPED NOSE (SEE TYPE ON PLAN SHEET)		

ASPHALTIC SURFACE TEMPORARY (BUTT JOINTS) OR HMA 4MT58-28 S (DRIVEWAYS) SEE CONSTRUCTION DETAILS

BUS STOP PAD (6' WIDTH TYPICAL) TO BE PAID AS CONCRETE SIDEWALK 5-INCH

FULL DEPTH COLORED CONCRETE (SEE CONSTRUCTION DETAIL)

NOTES

SEE CONSTRUCTION DETAILS FOR ADDITIONAL PAY ITEMS FOR ADJUSTING OR RECONSTRUCTIONG INLETS AND MANHOLES.

N

COMM. DRIVEWAY
+80.65, -115.53' LT
+81.96, -107.01' LT
+44.52, -111.85' LT
+44.49, -105.85' LT
+44.11, -93.24' LT
73' R
+88.71, -84.44' LT
35' R
+21.96, -64.77' LT
40' R
+04.05, -53.16' LT
+03.62, -17.02' LT
55' R
+86.23, -17.00' LT
+03.63, -14.63' LT
+28.87, -17.05' LT
60' R
3.5' R
+93.47, -7.00' LT
+03.35, -7.77' LT
+25.10, 5.00' RT
+36.18, -7.00' LT
+36.18, 5.00' RT
+38.18, 15.00' RT
REJECT GUTTER
+25.10, 17.00' RT
+28.89, 17.00' RT
+93.80, -17.00' LT
+93.80, -5.00' LT
+15.25, 7.81' RT
+25.10, 7.00' RT
+93.60, 17.19' RT
+14.89, 14.64' RT
+16.46, 15.05' RT
+32.25, 17.00' RT
+16.48, 17.05' RT
65' R
+80.20, -16.63' LT
+80.20, -5.00' LT
+80.20, 7.00' RT
REJECT GUTTER
+97.73, 55.59' RT
+88.76, 55.82' RT
+17.24, -53.10' LT
+23.24, -53.11' LT
+50.64, -16.75' LT
+68.59, -16.72' LT
+10.96, 52.51' RT
+89.91, 52.88' RT
+14.80, 52.72' RT
+08.33, 53.12' RT
+20.26, 53.12' RT
+40.09, 60.29' RT
+02.76, 53.68' RT
+82.93, 69.99' RT
27' R
26' R
+46.83, 70.01' RT
C/L OF ROADWAY
EXISTING ROW
EXISTING ROW
STH 100
386+00
387+00
388+00
389+00
390+00
391+00
392+00
SLOPE INTERCEPT, TYP.
DRIVEWAY TYPE Z ASPHALT
DRIVEWAY TYPE Z ASPHALT
EXISTING TREE TO REMAIN. MAINTAIN 1 FT MIN. CLEARANCE FROM NEW SIDEWALK
64th STREET
TYPE1
TYPE1
PLE
PLE
TLE

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 78	E

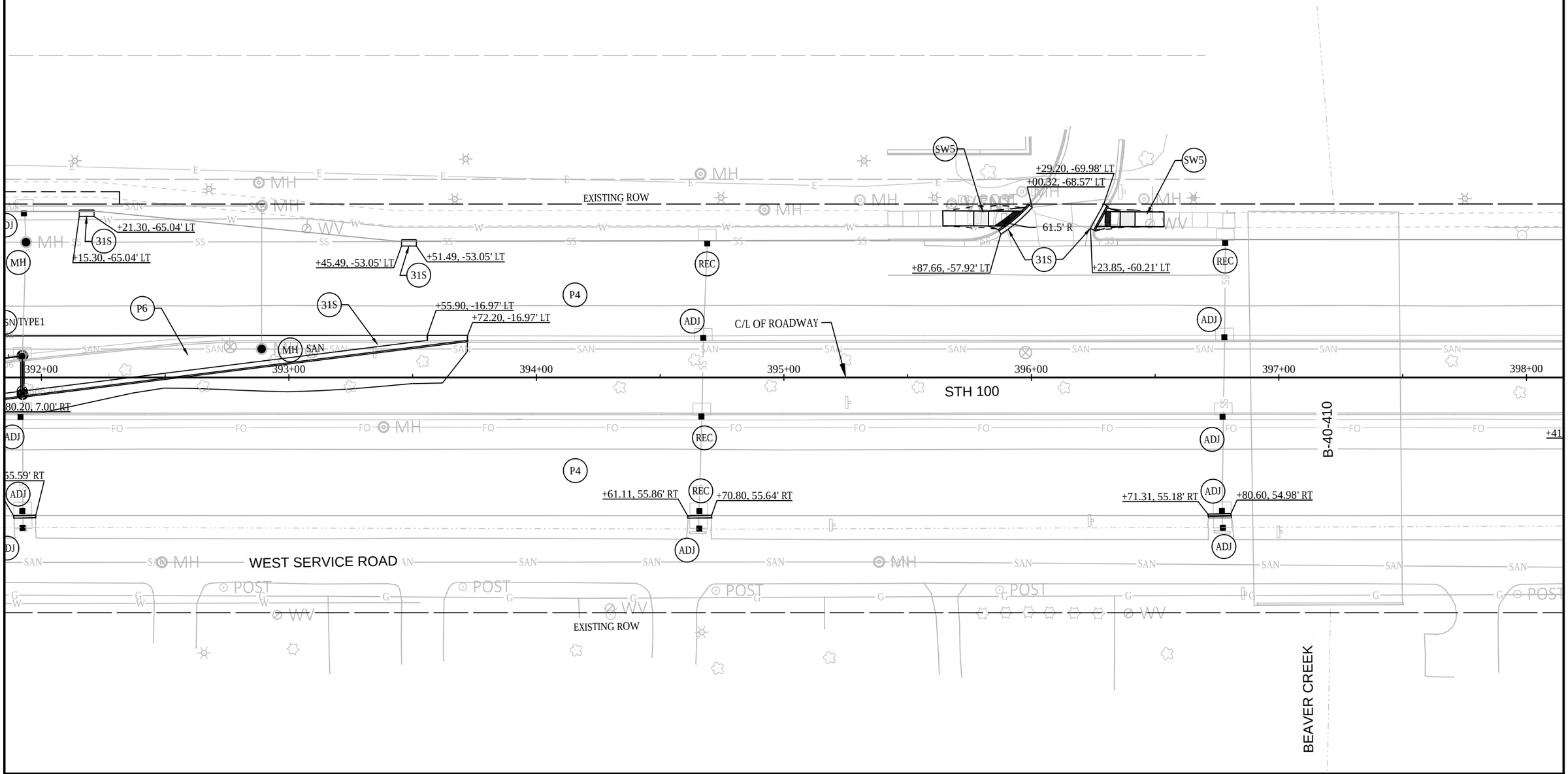
LEGEND

31S	CONCRETE CURB AND GUTTER 31-INCH, SPECIAL	P4	MILL 4", 4" HMA PAVEMENT	MH	ADJUSTING MANHOLE COVERS OR RECONSTRUCTING MANHOLES (TO BE FIELD DETERMINED)		ASPHALTIC SURFACE TEMPORARY (BUTT JOINTS) OR HMA 4MT58-28 S (DRIVEWAYS) SEE CONSTRUCTION DETAILS
SW5	CONCRETE SIDEWALK 5-INCH	P6	6 1/4" HMA PAVEMENT, 12" BASE AGGREGATE DENSE 1 1/4"	REC	RECONSTRUCTING INLETS		BUS STOP PAD (6' WIDTH TYPICAL) TO BE PAID AS CONCRETE SIDEWALK 5-INCH
DWC	CONCRETE DRIVEWAY HES 6-INCH	MBN	CONCRETE MEDIAN BLUNT NOSE	ADJ	ADJUSTING INLET COVERS		FULL DEPTH COLORED CONCRETE (SEE CONSTRUCTION DETAIL)
CB08	CONCRETE BASE 8-INCH	MSN	CONCRETE MEDIAN SLOPED NOSE (SEE TYPE ON PLAN SHEET)				

NOTES

SEE CONSTRUCTION DETAILS FOR ADDITIONAL PAY ITEMS FOR ADJUSTING OR RECONSTRUCTIONG INLETS AND MANHOLES.

N



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 79	E

LEGEND

31S	CONCRETE CURB AND GUTTER 31-INCH, SPECIAL	P4	MILL 4", 4" HMA PAVEMENT	MH	ADJUSTING MANHOLE COVERS OR RECONSTRUCTING MANHOLES (TO BE FIELD DETERMINED)
SW5	CONCRETE SIDEWALK 5-INCH	P6	6 1/4" HMA PAVEMENT, 12" BASE AGGREGATE DENSE 1 1/4"	REC	RECONSTRUCTING INLETS
DWC	CONCRETE DRIVEWAY HES 6-INCH	MBN	CONCRETE MEDIAN BLUNT NOSE	ADJ	ADJUSTING INLET COVERS
CB08	CONCRETE BASE 8-INCH	MSN	CONCRETE MEDIAN SLOPED NOSE (SEE TYPE ON PLAN SHEET)		

ASPHALTIC SURFACE TEMPORARY (BUTT JOINTS) OR HMA 4MT58-28 S (DRIVEWAYS) SEE CONSTRUCTION DETAILS

BUS STOP PAD (6' WIDTH TYPICAL) TO BE PAID AS CONCRETE SIDEWALK 5-INCH

FULL DEPTH COLORED CONCRETE (SEE CONSTRUCTION DETAIL)

NOTES

SEE CONSTRUCTION DETAILS FOR ADDITIONAL PAY ITEMS FOR ADJUSTING OR RECONSTRUCTIONG INLETS AND MANHOLES.

N

GROUNDWATER EXCEEDS WPDES LIMITS FOE EXCAVATION DEWATERING DISCHARGE TO SURFACE WATER

EXISTING ROW

C/L OF ROADWAY

STH 100

398+00 399+00 400+00 401+00 402+00 403+00 404+00

+41.20, 17.00' RT
+57.23, 17.00' RT
+33.20, -7.00' LT
+33.20, 5.00' RT
+33.20, 17.00' RT
REJECT GUTTER
MSN TYPE1
+64.90, -140.42' LT
+64.89, -134.42' LT
+64.85, -116.63' LT
+64.84, -110.63' LT
+64.87, -98.99' LT
+19.96, -103.06' LT
+64.91, -92.99' LT
85' R
+64.26, -80.39' LT
27.5' R
62' R
+49.66, -58.98' LT
42' R
+27.30, -53.22' LT
+29.18, -17.04' LT
75' R
+12.86, -17.00' LT
+29.24, -15.19' LT
+34.35, -13.85' LT
3.5' R
+33.35, -7.00' LT
+56.91, 5.00' RT
+57.05, 17.00' RT
+30.34, -17.00' LT
+30.34, -5.00' LT
+53.77, 7.00' RT TYP2
3.5' R
+52.77, 13.85' RT
REJECT GUTTER
+74.26, 17.00' RT
75' R
+52.77, 17.00' RT
+58.14, -57.36' LT
P: 402+88.30
664.889
SEC 60TH SW 2-8-21
SECTION CORNER TO BE REPLACED BY OTHERS
60th STREET
+96.66, 53.15' RT
+02.66, 53.17' RT
+14.62, 55.81' RT
+23.49, 55.76' RT
+14.46, 63.83' RT
+23.73, 63.63' RT
+26.60, 53.17' RT
+32.60, 53.11' RT
+17.00, 55.84' RT
+26.26, 55.81' RT
+17.28, 63.83' RT
+26.64, 63.78' RT
SERVICE ROAD
EXISTING ROW
+28.09, 53.36' RT
+34.43, 53.26' RT
40.5' R
+50.34, 53.26' RT
+59.32, 53.27' RT
41.5' R
+21.99, 78.80' RT
+66.94, 79.46' RT
SLOPE INTERCEPT, TYP.
402+12.3, 87.2' RT
INVERT ELEV.=663.24
+19.58, 88.89' RT
+19.48, 94.89' RT
+19.48, 120.54' RT
+19.38, 126.55' RT
402+26.9, 93.7' RT
INVERT ELEV.= 663.52
17" X 13"PACS REQUIRED WITH 2 APRON END WALLS
INLET ELEV: 663.52
DITCH ELEV: 663.24
SLOPE: 1.79 %
LENGTH: 16 FT

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 80	E

2

LEGEND

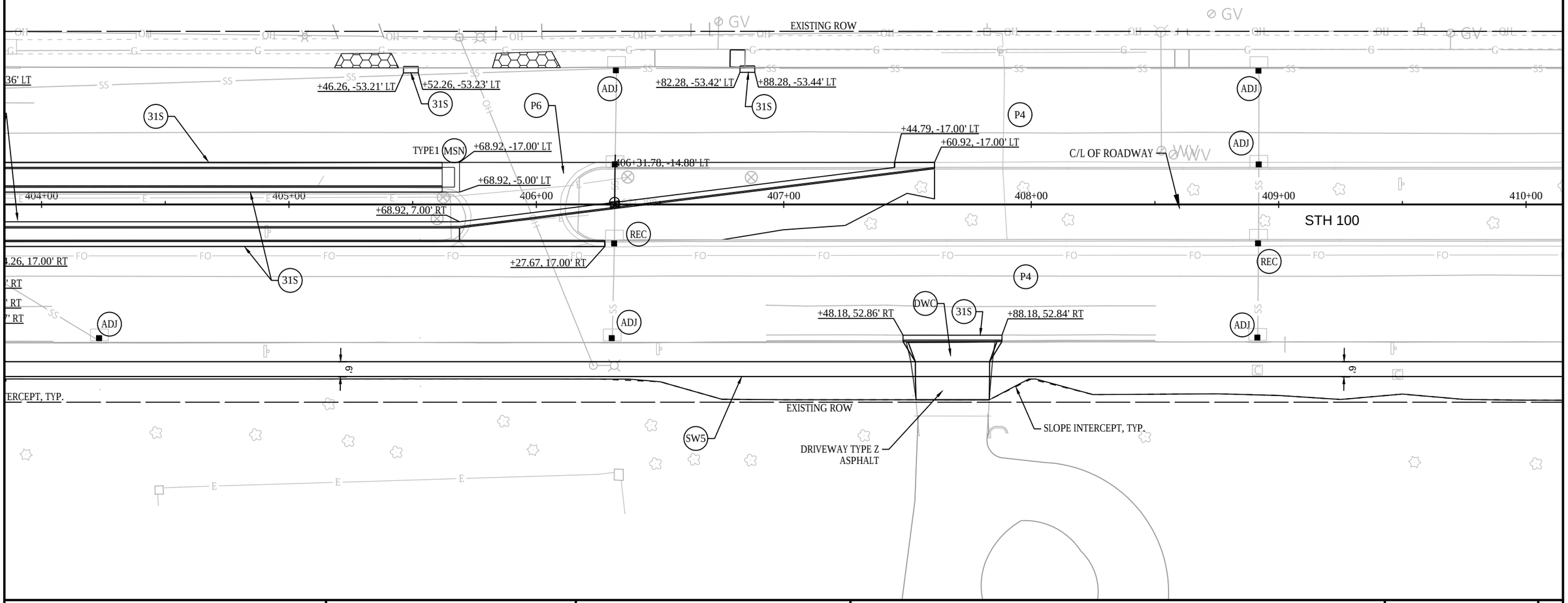
31S	CONCRETE CURB AND GUTTER 31-INCH, SPECIAL	P4	MILL 4", 4" HMA PAVEMENT	MH	ADJUSTING MANHOLE COVERS OR RECONSTRUCTING MANHOLES (TO BE FIELD DETERMINED)		ASPHALTIC SURFACE TEMPORARY (BUTT JOINTS) OR HMA 4MT58-28 S (DRIVEWAYS) SEE CONSTRUCTION DETAILS
SW5	CONCRETE SIDEWALK 5-INCH	P6	6 1/4" HMA PAVEMENT, 12" BASE AGGREGATE DENSE 1 1/4"	REC	RECONSTRUCTING INLETS		BUS STOP PAD (6' WIDTH TYPICAL) TO BE PAID AS CONCRETE SIDEWALK 5-INCH
DWC	CONCRETE DRIVEWAY HES 6-INCH	MBN	CONCRETE MEDIAN BLUNT NOSE	ADJ	ADJUSTING INLET COVERS		FULL DEPTH COLORED CONCRETE (SEE CONSTRUCTION DETAIL)
CB08	CONCRETE BASE 8-INCH	MSN	CONCRETE MEDIAN SLOPED NOSE (SEE TYPE ON PLAN SHEET)				

NOTES

SEE CONSTRUCTION DETAILS FOR ADDITIONAL PAY ITEMS FOR ADJUSTING OR RECONSTRUCTIONG INLETS AND MANHOLES.

N

2



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 81	E

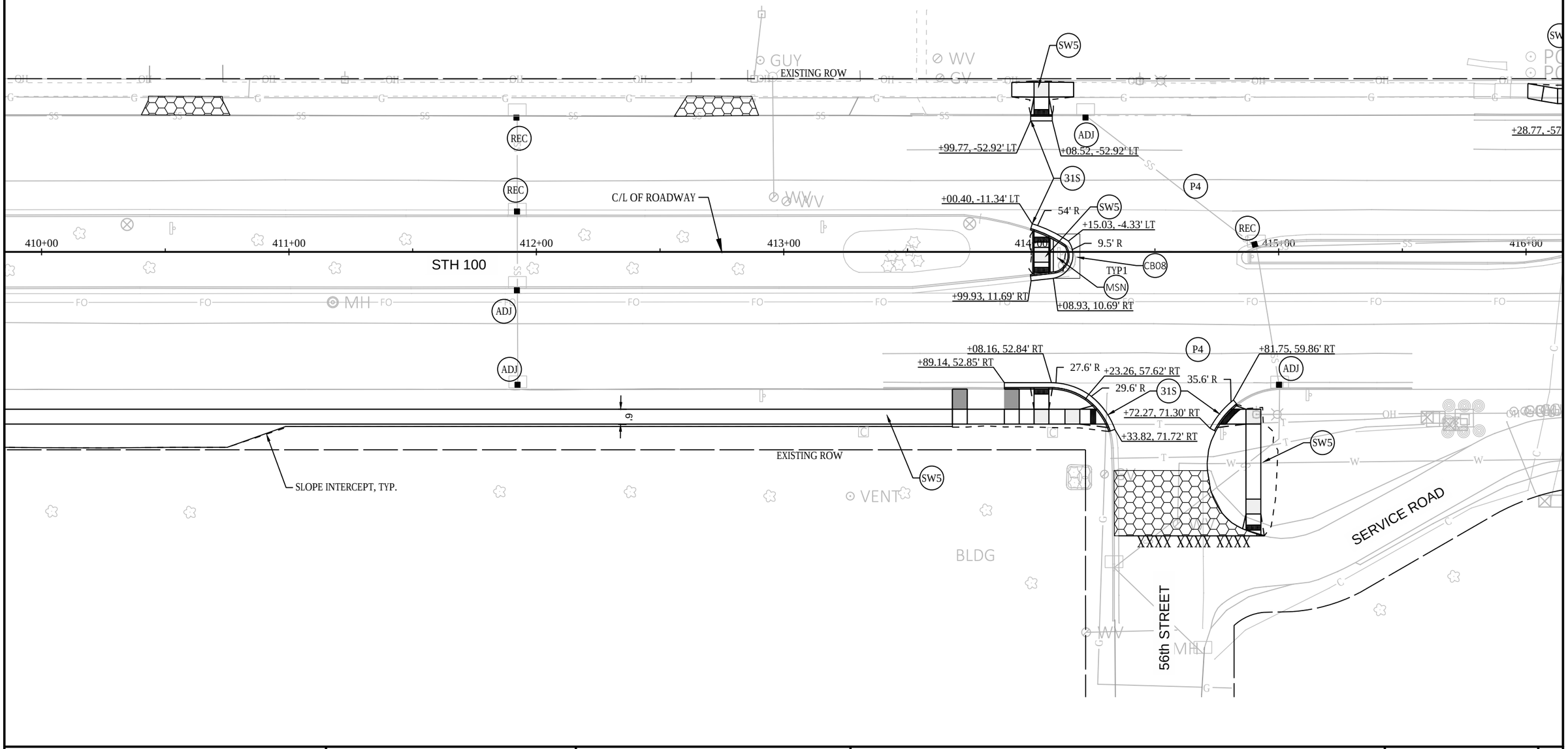
LEGEND

31S	CONCRETE CURB AND GUTTER 31-INCH, SPECIAL	P4	MILL 4", 4" HMA PAVEMENT	MH	ADJUSTING MANHOLE COVERS OR RECONSTRUCTING MANHOLES (TO BE FIELD DETERMINED)		ASPHALTIC SURFACE TEMPORARY (BUTT JOINTS) OR HMA 4MT58-28 S (DRIVEWAYS) SEE CONSTRUCTION DETAILS
SW5	CONCRETE SIDEWALK 5-INCH	P6	6 1/4" HMA PAVEMENT, 12" BASE AGGREGATE DENSE 1 1/4"	REC	RECONSTRUCTING INLETS		BUS STOP PAD (6' WIDTH TYPICAL) TO BE PAID AS CONCRETE SIDEWALK 5-INCH
DWC	CONCRETE DRIVEWAY HES 6-INCH	MBN	CONCRETE MEDIAN BLUNT NOSE	ADJ	ADJUSTING INLET COVERS		FULL DEPTH COLORED CONCRETE (SEE CONSTRUCTION DETAIL)
CB08	CONCRETE BASE 8-INCH	MSN	CONCRETE MEDIAN SLOPED NOSE (SEE TYPE ON PLAN SHEET)				

NOTES

SEE CONSTRUCTION DETAILS FOR ADDITIONAL PAY ITEMS FOR ADJUSTING OR RECONSTRUCTIONG INLETS AND MANHOLES.

N



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 82	E

2

LEGEND

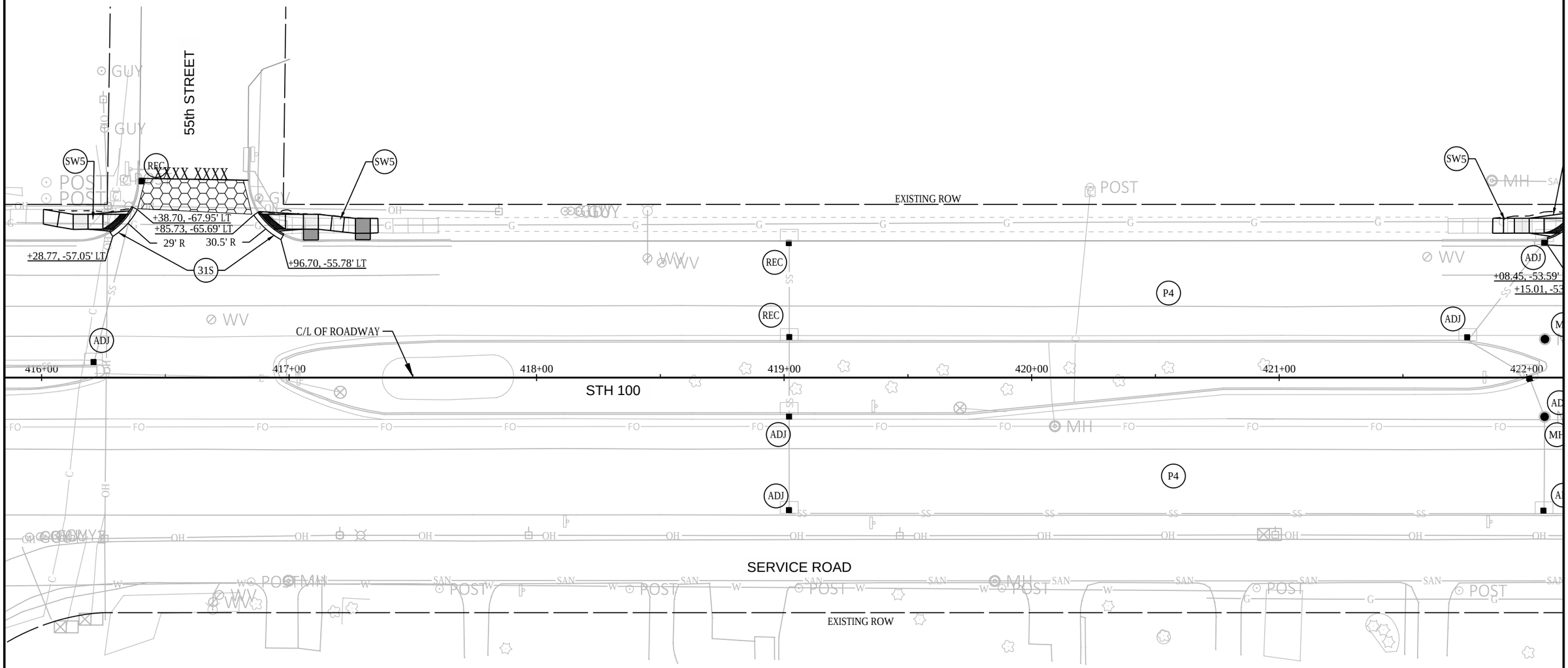
31S	CONCRETE CURB AND GUTTER 31-INCH, SPECIAL	P4	MILL 4", 4" HMA PAVEMENT	MH	ADJUSTING MANHOLE COVERS OR RECONSTRUCTING MANHOLES (TO BE FIELD DETERMINED)		ASPHALTIC SURFACE TEMPORARY (BUTT JOINTS) OR HMA 4MT58-28 S (DRIVEWAYS) SEE CONSTRUCTION DETAILS
SW5	CONCRETE SIDEWALK 5-INCH	P6	6 1/4" HMA PAVEMENT, 12" BASE AGGREGATE DENSE 1 1/4"	REC	RECONSTRUCTING INLETS		BUS STOP PAD (6' WIDTH TYPICAL) TO BE PAID AS CONCRETE SIDEWALK 5-INCH
DWC	CONCRETE DRIVEWAY HES 6-INCH	MBN	CONCRETE MEDIAN BLUNT NOSE	ADJ	ADJUSTING INLET COVERS		FULL DEPTH COLORED CONCRETE (SEE CONSTRUCTION DETAIL)
CB08	CONCRETE BASE 8-INCH	MSN	CONCRETE MEDIAN SLOPED NOSE (SEE TYPE ON PLAN SHEET)				

NOTES

SEE CONSTRUCTION DETAILS FOR ADDITIONAL PAY ITEMS FOR ADJUSTING OR RECONSTRUCTIONG INLETS AND MANHOLES.

N

2



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 83	E

FILE NAME : N:\PDS\C3D\215000001\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 22

PLOT DATE : 11/17/2020 4:02 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

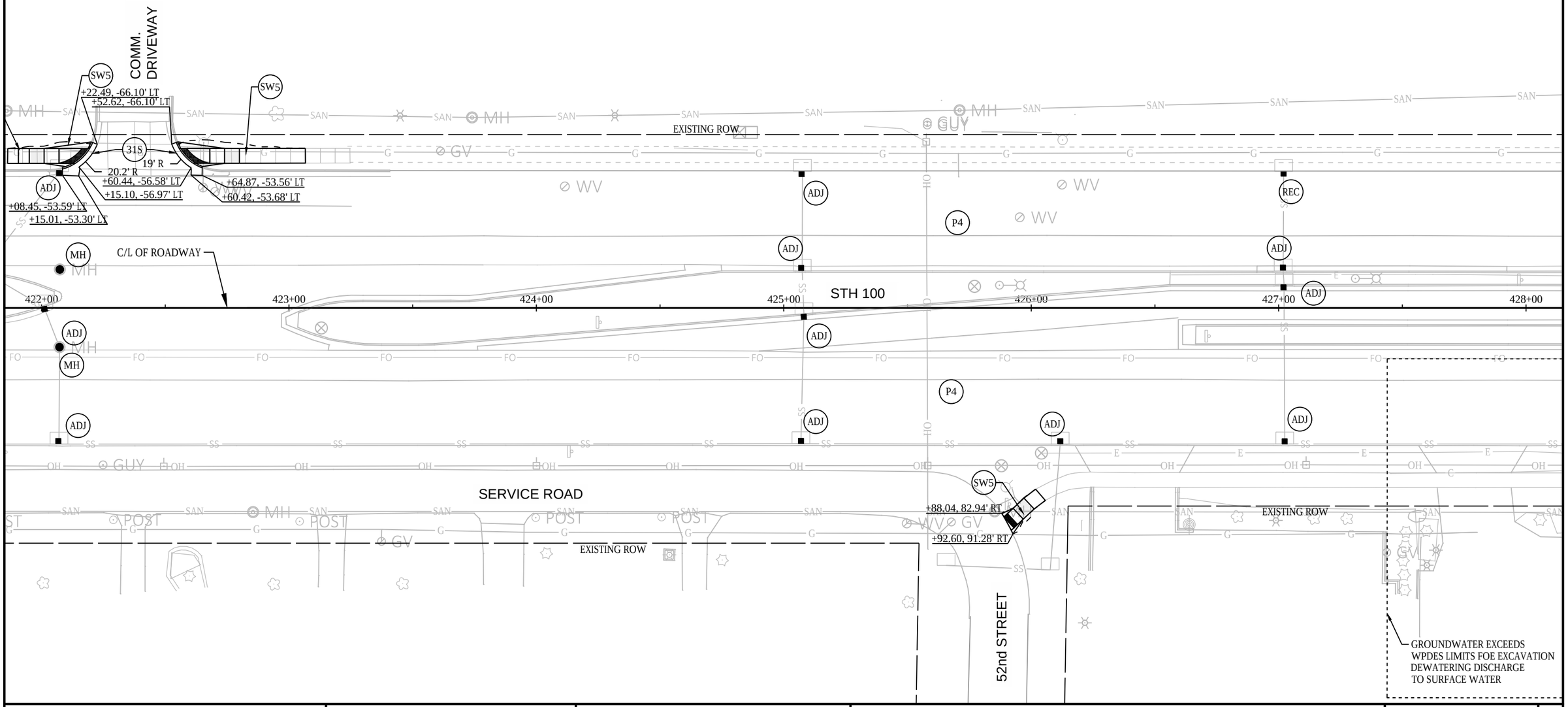
LEGEND

31S	CONCRETE CURB AND GUTTER 31-INCH, SPECIAL	P4	MILL 4", 4" HMA PAVEMENT	MH	ADJUSTING MANHOLE COVERS OR RECONSTRUCTING MANHOLES (TO BE FIELD DETERMINED)		ASPHALTIC SURFACE TEMPORARY (BUTT JOINTS) OR HMA 4MT58-28 S (DRIVEWAYS) SEE CONSTRUCTION DETAILS
SW5	CONCRETE SIDEWALK 5-INCH	P6	6 1/4" HMA PAVEMENT, 12" BASE AGGREGATE DENSE 1 1/4"	REC	RECONSTRUCTING INLETS		BUS STOP PAD (6' WIDTH TYPICAL) TO BE PAID AS CONCRETE SIDEWALK 5-INCH
DWC	CONCRETE DRIVEWAY HES 6-INCH	MBN	CONCRETE MEDIAN BLUNT NOSE	ADJ	ADJUSTING INLET COVERS		FULL DEPTH COLORED CONCRETE (SEE CONSTRUCTION DETAIL)
CB08	CONCRETE BASE 8-INCH	MSN	CONCRETE MEDIAN SLOPED NOSE (SEE TYPE ON PLAN SHEET)				

NOTES

SEE CONSTRUCTION DETAILS FOR ADDITIONAL PAY ITEMS FOR ADJUSTING OR RECONSTRUCTIONG INLETS AND MANHOLES.

N



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 84	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 23

PLOT DATE : 11/17/2020 4:02 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

31S	CONCRETE CURB AND GUTTER 31-INCH, SPECIAL	P4	MILL 4", 4" HMA PAVEMENT	MH	ADJUSTING MANHOLE COVERS OR RECONSTRUCTING MANHOLES (TO BE FIELD DETERMINED)
SW5	CONCRETE SIDEWALK 5-INCH	P6	6 1/4" HMA PAVEMENT, 12" BASE AGGREGATE DENSE 1 1/4"	REC	RECONSTRUCTING INLETS
DWC	CONCRETE DRIVEWAY HES 6-INCH	MBN	CONCRETE MEDIAN BLUNT NOSE	ADJ	ADJUSTING INLET COVERS
CB08	CONCRETE BASE 8-INCH	MSN	CONCRETE MEDIAN SLOPED NOSE (SEE TYPE ON PLAN SHEET)		

ASPHALTIC SURFACE TEMPORARY (BUTT JOINTS) OR HMA 4MT58-28 S (DRIVEWAYS) SEE CONSTRUCTION DETAILS

BUS STOP PAD (6' WIDTH TYPICAL) TO BE PAID AS CONCRETE SIDEWALK 5-INCH

FULL DEPTH COLORED CONCRETE (SEE CONSTRUCTION DETAIL)

NOTES

SEE CONSTRUCTION DETAILS FOR ADDITIONAL PAY ITEMS FOR ADJUSTING OR RECONSTRUCTIONG INLETS AND MANHOLES.

N

51st STREET

+42.57, -87.32' LT
+91.02, -83.05' LT
+90.39, -86.83' LT
41.6' R
34.5' R
+00.94, -62.85' LT
34.8' R
+98.18, -53.13' LT
+19.41, -53.99' LT
+28.78, -53.30' LT
89.2' R
PI: 429+61.30
+97.84, -17.04' LT
+07.22, -16.92' LT
+99.80, -16.79' LT
+28.29, -17.03' LT
+97.84, -6.89' LT
+07.35, -6.92' LT
+99.69, -7.03' LT
+28.80, -6.99' LT
+97.84, 4.76' RT
+25.51, 4.86' RT
+20.76, 4.98' RT
+27.66, 4.93' RT
+97.84, 16.89' RT
+25.29, 16.88' RT
+20.33, 16.98' RT
+27.35, 17.18' RT
73.8' R
+13.54, 54.12' RT
+98.89, 55.75' RT
+10.27, 53.54' RT
75' R
+28.34, 53.16' RT
+98.32, 53.14' RT
26' R
+90.39, 60.74' RT
34' R
36' R
+39.70, 85.08' RT
+78.15, 86.60' RT
428+00
429+00
430+00
431+00
432+00
433+00
434+00
REJECT GUTTER
208836
663.248
SEC 51ST S 2-8-21
TYP1
SECTION CORNER TO BE REPLACED BY OTHERS
C/L OF ROADWAY
EXISTING ROW
STH 100
GROUNDWATER EXCEEDS WPDES LIMITS FOE EXCAVATION DEWATERING DISCHARGE TO SURFACE WATER
51st STREET

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 85	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 24
PLOT DATE : 11/17/2020 4:03 PM
PLOT BY : SCHMIDT, JUDENE M
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

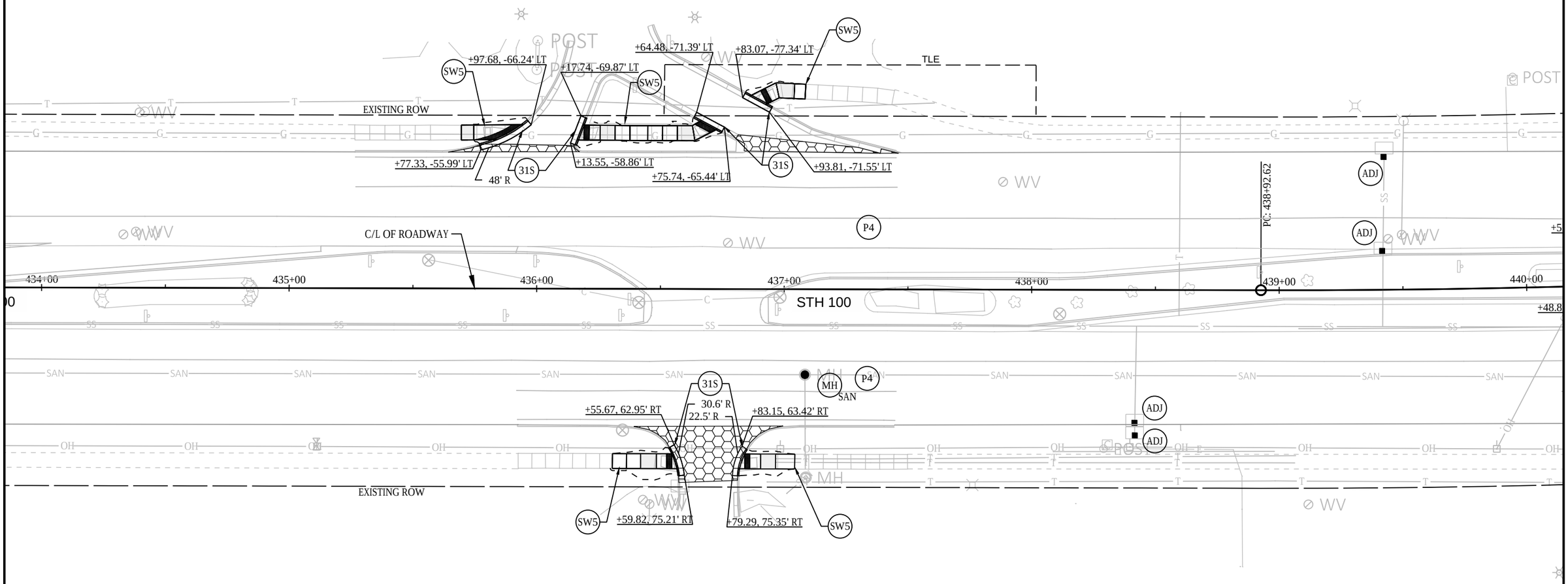
LEGEND

31S	CONCRETE CURB AND GUTTER 31-INCH, SPECIAL	P4	MILL 4", 4" HMA PAVEMENT	MH	ADJUSTING MANHOLE COVERS OR RECONSTRUCTING MANHOLES (TO BE FIELD DETERMINED)		ASPHALTIC SURFACE TEMPORARY (BUTT JOINTS) OR HMA 4MT58-28 S (DRIVEWAYS) SEE CONSTRUCTION DETAILS
SW5	CONCRETE SIDEWALK 5-INCH	P6	6 1/4" HMA PAVEMENT, 12" BASE AGGREGATE DENSE 1 1/4"	REC	RECONSTRUCTING INLETS		BUS STOP PAD (6' WIDTH TYPICAL) TO BE PAID AS CONCRETE SIDEWALK 5-INCH
DWC	CONCRETE DRIVEWAY HES 6-INCH	MBN	CONCRETE MEDIAN BLUNT NOSE	ADJ	ADJUSTING INLET COVERS		FULL DEPTH COLORED CONCRETE (SEE CONSTRUCTION DETAIL)
CB08	CONCRETE BASE 8-INCH	MSN	CONCRETE MEDIAN SLOPED NOSE (SEE TYPE ON PLAN SHEET)				

NOTES

SEE CONSTRUCTION DETAILS FOR ADDITIONAL PAY ITEMS FOR ADJUSTING OR RECONSTRUCTIONG INLETS AND MANHOLES.

N



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 86	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 25

PLOT DATE : 11/17/2020 4:03 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

31S	CONCRETE CURB AND GUTTER 31-INCH, SPECIAL	P4	MILL 4", 4" HMA PAVEMENT	MH	ADJUSTING MANHOLE COVERS OR RECONSTRUCTING MANHOLES (TO BE FIELD DETERMINED)		ASPHALTIC SURFACE TEMPORARY (BUTT JOINTS) OR HMA 4MT58-28 S (DRIVEWAYS) SEE CONSTRUCTION DETAILS
SW5	CONCRETE SIDEWALK 5-INCH	P6	6 1/4" HMA PAVEMENT, 12" BASE AGGREGATE DENSE 1 1/4"	REC	RECONSTRUCTING INLETS		BUS STOP PAD (6' WIDTH TYPICAL) TO BE PAID AS CONCRETE SIDEWALK 5-INCH
DWC	CONCRETE DRIVEWAY HES 6-INCH	MBN	CONCRETE MEDIAN BLUNT NOSE	ADJ	ADJUSTING INLET COVERS		FULL DEPTH COLORED CONCRETE (SEE CONSTRUCTION DETAIL)
CB08	CONCRETE BASE 8-INCH	MSN	CONCRETE MEDIAN SLOPED NOSE (SEE TYPE ON PLAN SHEET)				

NOTES

SEE CONSTRUCTION DETAILS FOR ADDITIONAL PAY ITEMS FOR ADJUSTING OR RECONSTRUCTIONG INLETS AND MANHOLES.

N

ARBON DRIVE

XXXX XXXX

+50.98, -76.08' LT
+96.84, -67.24' LT
42' R
45' R
+64.69, -51.66' LT
+90.55, -50.65' LT
+67.83, -15.12' LT
+57.48, -15.21' LT
C/L OF ROADWAY
73.3' R
+89.44, -10.31' LT
+93.34, -15.02' LT
5.6' R
+75.13, -2.10' LT
40' R
+86.54, -4.06' LT
440+00
441+00
442+00
443+00
444+00
445+00
446+00
+48.80, 7.29' RT
74.6' R
+92.44, 8.77' RT
+89.86, -0.11' LT
+57.17, 7.42' RT
+75.87, 18.64' RT
90' R
+86.35, 19.32' RT
+65.53, 54.56' RT
32' R
+81.46, 55.86' RT
30' R
+86.72, 55.75' RT
+53.00, 80.64' RT
+51.99, 88.41' RT
STH 100
EXISTING ROW
EXISTING ROW
P4
P4

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 87 E

FILE NAME : N:\PDS\C3D\215000001\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 26

PLOT DATE : 11/17/2020 4:03 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

31S	CONCRETE CURB AND GUTTER 31-INCH, SPECIAL	P4	MILL 4", 4" HMA PAVEMENT	MH	ADJUSTING MANHOLE COVERS OR RECONSTRUCTING MANHOLES (TO BE FIELD DETERMINED)
SW5	CONCRETE SIDEWALK 5-INCH	P6	6 1/4" HMA PAVEMENT, 12" BASE AGGREGATE DENSE 1 1/4"	REC	RECONSTRUCTING INLETS
DWC	CONCRETE DRIVEWAY HES 6-INCH	MBN	CONCRETE MEDIAN BLUNT NOSE	ADJ	ADJUSTING INLET COVERS
CB08	CONCRETE BASE 8-INCH	MSN	CONCRETE MEDIAN SLOPED NOSE (SEE TYPE ON PLAN SHEET)		

ASPHALTIC SURFACE TEMPORARY (BUTT JOINTS) OR HMA 4MT58-28 S (DRIVEWAYS) SEE CONSTRUCTION DETAILS

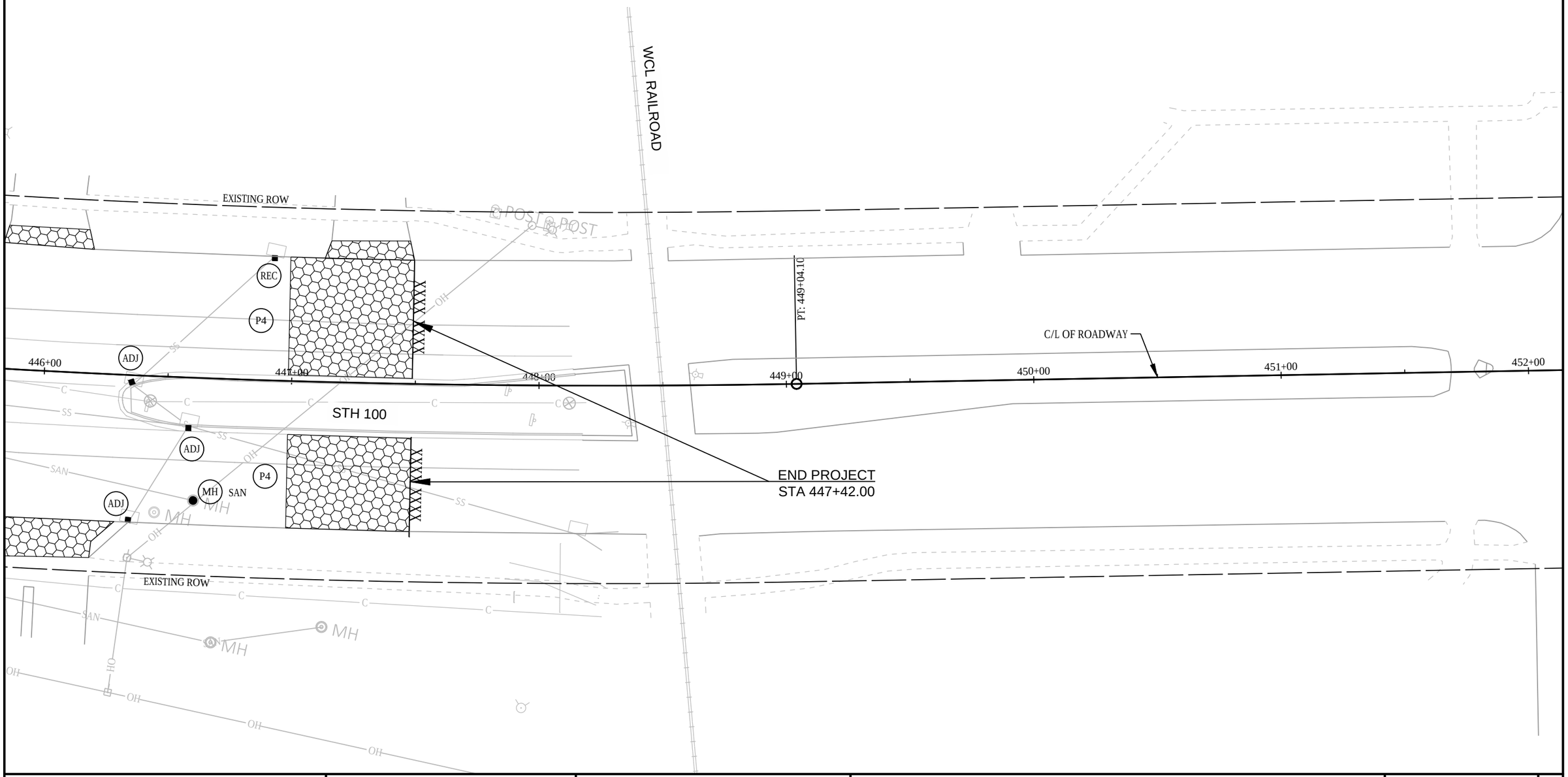
BUS STOP PAD (6' WIDTH TYPICAL) TO BE PAID AS CONCRETE SIDEWALK 5-INCH

FULL DEPTH COLORED CONCRETE (SEE CONSTRUCTION DETAIL)

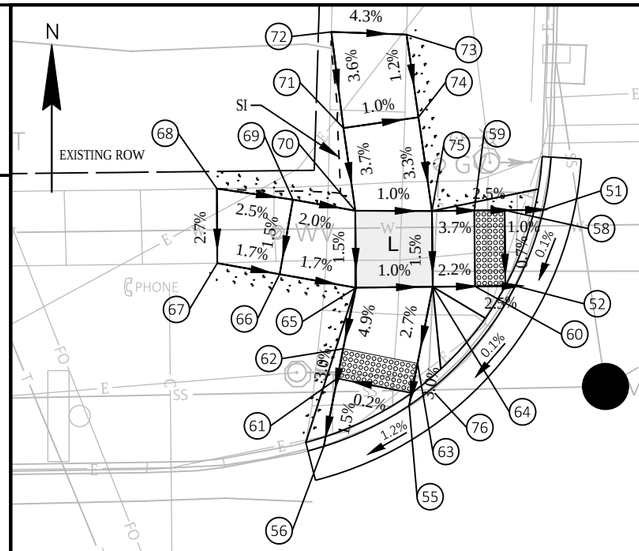
NOTES

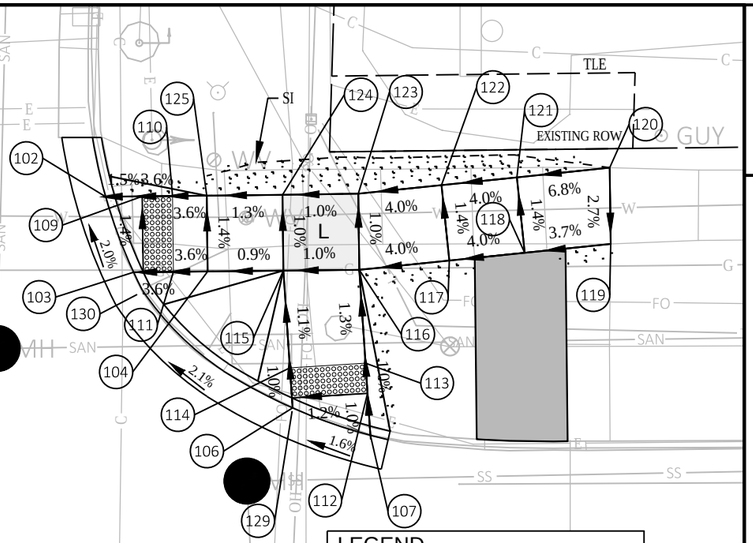
SEE CONSTRUCTION DETAILS FOR ADDITIONAL PAY ITEMS FOR ADJUSTING OR RECONSTRUCTIONG INLETS AND MANHOLES.

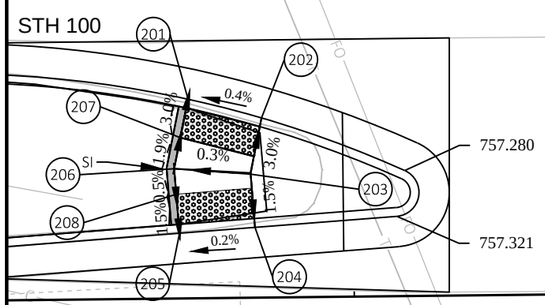
N

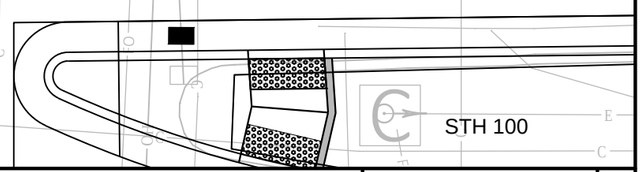


PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 88	E









297+00

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
51	296+37.99	72.233 LT	350369.29	575312.10	757.555
52	296+36.09	67.233 LT	350364.27	575310.26	757.548
55	296+28.99	59.421 LT	350356.38	575303.24	757.460
56	296+23.33	56.773 LT	350353.67	575297.61	757.381
58	296+35.42	72.233 LT	350369.26	575309.54	757.581
59	296+33.42	72.233 LT	350369.24	575307.54	757.631
60	296+33.42	67.233 LT	350364.24	575307.59	757.598
61	296+24.27	61.254 LT	350358.16	575298.50	757.450
62	296+24.68	63.212 LT	350360.12	575298.89	757.510
63	296+29.57	62.192 LT	350359.15	575303.80	757.520
64	296+30.63	67.233 LT	350364.21	575304.80	757.660
65	296+25.58	67.233 LT	350364.15	575299.75	757.710
66	296+20.54	68.173 LT	350365.04	575294.70	757.796
67	296+16.43	68.949 LT	350365.77	575290.58	757.866
68	296+16.46	73.861 LT	350370.68	575290.56	757.997
69	296+21.47	73.086 LT	350369.96	575295.58	757.870
70	296+25.58	72.311 LT	350369.23	575299.69	757.785
71	296+24.85	77.775 LT	350374.69	575298.91	757.990
72	296+24.12	84.124 LT	350381.03	575298.11	758.218
73	296+29.08	83.896 LT	350380.85	575303.08	758.006
74	296+29.81	78.432 LT	350375.40	575303.86	757.940
75	296+30.63	72.233 LT	350369.21	575304.75	757.733
76	296+30.63	72.233 LT	350357.19	575304.93	757.481

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
102	297+18.23	72.207 LT	350370.15	575392.29	757.888
103	297+20.02	67.206 LT	350365.17	575394.14	757.993
104	297+24.90	67.203 LT	350365.22	575399.03	758.147
106	297+30.41	58.136 LT	350356.22	575404.63	758.288
107	297+35.52	56.272 LT	350354.41	575409.77	758.370
109	297+20.65	72.206 LT	350370.17	575394.71	757.924
110	297+22.65	72.203 LT	350370.19	575396.71	757.996
111	297+22.64	67.205 LT	350365.20	575396.77	758.065
112	297+35.37	59.040 LT	350357.18	575409.58	758.342
113	297+35.26	61.036 LT	350359.17	575409.45	758.322
114	297+30.26	60.782 LT	350358.86	575404.46	758.261
115	297+29.90	67.200 LT	350365.27	575404.03	758.193
116	297+34.91	67.197 LT	350365.33	575409.03	758.245
117	297+40.86	67.741 LT	350365.94	575414.97	758.484
118	297+45.84	68.197 LT	350366.45	575419.95	758.684
119	297+51.52	68.717 LT	350367.04	575425.62	758.895
120	297+51.52	73.752 LT	350372.07	575425.56	759.032
121	297+45.38	73.176 LT	350371.43	575419.44	758.616
122	297+40.41	72.721 LT	350370.91	575414.46	758.416
123	297+34.91	72.218 LT	350370.35	575408.97	758.195
124	297+29.91	72.200 LT	350370.27	575403.97	758.145
125	297+24.91	72.203 LT	350370.22	575398.97	758.078
129	297+29.91	77.200 LT	350356.01	575404.61	758.288
130	297+29.91	77.200 LT	350363.70	575394.38	758.018

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
201	296+14.16	13.145 LT	350309.95	575288.91	757.221
202	296+19.00	11.859 LT	350308.71	575293.77	757.240
203	296+18.24	8.156 LT	350305.00	575293.05	757.355
204	296+18.50	4.641 LT	350301.49	575293.34	757.302
205	296+13.51	4.289 LT	350301.08	575288.35	757.291
206	296+13.20	8.568 LT	350305.36	575288.00	757.338
207	296+13.63	10.615 LT	350307.41	575288.41	757.299
208	296+13.32	6.885 LT	350303.68	575288.14	757.330

LEGEND

L	LANDING
	TOPSOIL, SOD LAWN, FERTILIZER TYPE B AND SOD WATER
	CONCRETE CURB PEDESTRIAN
	DETECTABLE WARNING FIELD
MEF	MAXIMUM EXTENT FEASIBLE
*	ELEVATION AT BACK OF CURB

NOTES:

CITY OF MILWAUKEE (WEST OF 68TH STREET) SIDEWALK WIDTH IS 5' TYP.

VILLAGE OF BROWN DEER (EAST OF 68TH STREET) SIDEWALK WIDTH IS 6' TYP.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD, AND SLOPES ADJUSTED TO MEET ADA COMPLIANCE. NOTIFY ENGINEER IF ADA COMPLIANCE CANNOT BE OBTAINED.

SIDEWALK AND CURB AND GUTTER REPLACEMENT SHOULD BE TO THE NEAREST JOINT. LIMITS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

MATCH EXISTING SIDEWALK WIDTH AND CROSS SLOPE AT MATCH POINTS.

THE CONTRACTOR SHALL CONFIRM GRADES ON THE PLANS AND ENSURE POSITIVE DRAINAGE AT THE COMPLETION OF ALL WORK.

MATCH EXISTING CURB AND GUTTER ELEVATIONS.

CURB AND GUTTER ELEVATIONS ARE SHOWN AT THE FLOW LINE.

STATIONING/ OFFSETS FROM STH 100 C/L SHIFT ALIGNMENT

SEE CURB RAMP SDDs FOR ADDITIONAL INFORMATION

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CURB RAMP DETAILS - 91ST STREET	SHEET 89 E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021301A_CD_CURB RAMPS-91ST.DWG
LAYOUT NAME - 01
PLOT DATE : 10/20/2020 12:05 PM
PLOT BY : SCHMIDT, JUDENE M
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

296+00

STH 100

NOTES:

CITY OF MILWAUKEE (WEST OF 68TH STREET) SIDEWALK WIDTH IS 5' TYP.

VILLAGE OF BROWN DEER (EAST OF 68TH STREET) SIDEWALK WIDTH IS 6' TYP.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD, AND SLOPES ADJUSTED TO MEET ADA COMPLIANCE.
NOTIFY ENGINEER IF ADA COMPLIANCE CANNOT BE OBTAINED.

SIDEWALK AND CURB AND GUTTER REPLACEMENT SHOULD BE TO THE NEAREST JOINT. LIMITS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

MATCH EXISTING SIDEWALK WIDTH AND CROSS SLOPE AT MATCH POINTS.

THE CONTRACTOR SHALL CONFIRM GRADES ON THE PLANS AND ENSURE POSITIVE DRAINAGE AT THE COMPLETION OF ALL WORK.

MATCH EXISTING CURB AND GUTTER ELEVATIONS.

CURB AND GUTTER ELEVATIONS ARE SHOWN AT THE FLOW LINE.

STATIONING/ OFFSETS FROM STH 100 C/L SHIFT ALIGNMENT

SEE CURB RAMP SDDs FOR ADDITIONAL INFORMATION

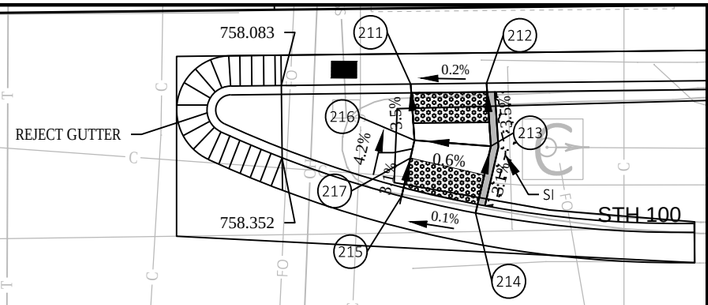
LEGEND

L	LANDING
	TOPSOIL, SOD LAWN, FERTILIZER TYPE B AND SOD WATER
	CONCRETE CURB PEDESTRIAN
	DETECTABLE WARNING FIELD
MEF	MAXIMUM EXTENT FEASIBLE
*	ELEVATION AT BACK OF CURB

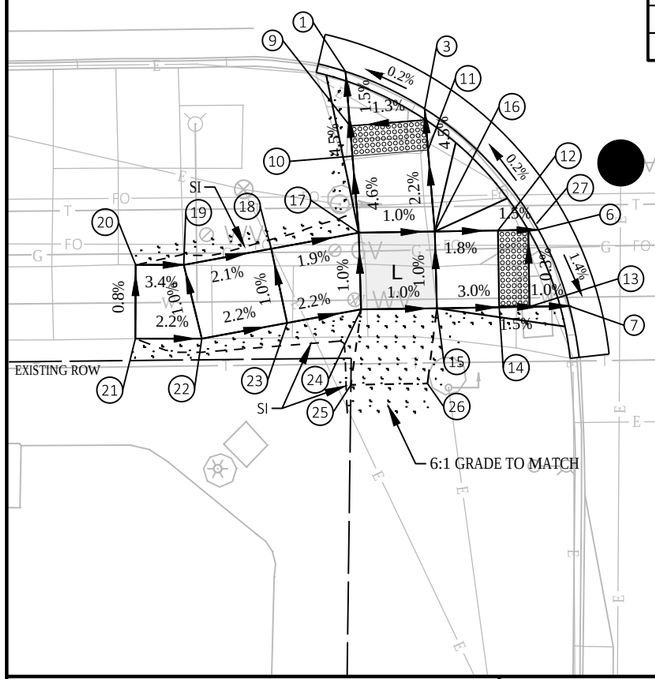
N

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
1	296+17.83	56.080 RT	350240.76	575293.32	757.338
3	296+23.02	58.595 RT	350238.30	575298.54	757.422
6	296+30.44	66.663 RT	350230.32	575306.04	757.549
7	296+32.42	71.711 RT	350225.29	575308.08	757.536
9	296+18.09	59.676 RT	350237.17	575293.62	757.392
10	296+18.23	61.671 RT	350235.18	575293.78	757.482
11	296+23.22	61.317 RT	350235.58	575298.76	757.545
12	296+27.77	66.677 RT	350230.27	575303.38	757.589
13	296+29.80	71.730 RT	350225.24	575305.46	757.562
14	296+27.80	71.744 RT	350225.21	575303.46	757.592
15	296+23.69	71.774 RT	350225.13	575299.35	757.715
16	296+23.60	66.700 RT	350230.21	575299.21	757.663
17	296+18.59	66.727 RT	350230.13	575294.20	757.715
18	296+12.80	67.724 RT	350229.07	575288.42	757.826
19	296+07.02	68.722 RT	350228.01	575282.65	757.950
20	296+03.84	68.688 RT	350228.01	575279.47	758.057
21	296+03.77	73.556 RT	350223.14	575279.45	758.095
22	296+08.15	73.600 RT	350223.14	575283.84	758.000
23	296+13.80	72.627 RT	350224.17	575289.47	757.874
24	296+18.69	71.784 RT	350225.07	575294.35	757.765
25	296+17.97	76.758 RT	350220.09	575293.68	758.134
26	296+23.02	76.721 RT	350220.18	575298.73	757.893
27	296+23.02	76.721 RT	350230.72	575305.92	757.549

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
152	297+12.86	71.240 RT	350226.65	575388.56	757.994
153	297+15.05	66.235 RT	350231.68	575390.69	758.063
156	297+22.02	59.091 RT	350238.90	575397.58	758.153
158	297+27.78	56.535 RT	350241.52	575403.31	758.290
159	297+26.68	61.102 RT	350236.94	575402.26	758.328
160	297+26.22	63.036 RT	350235.00	575401.82	758.357
161	297+25.46	66.186 RT	350231.85	575401.10	758.404
162	297+21.36	61.862 RT	350236.12	575396.94	758.196
163	297+20.31	66.210 RT	350231.76	575395.95	758.300
164	297+17.72	66.223 RT	350231.72	575393.36	758.236
165	297+15.67	71.262 RT	350226.66	575391.37	758.050
166	297+17.66	71.277 RT	350226.67	575393.36	758.179
167	297+20.34	71.298 RT	350226.68	575396.03	758.355
168	297+20.64	76.209 RT	350221.77	575396.39	758.425
169	297+20.94	81.208 RT	350216.77	575396.75	758.480
170	297+21.24	86.206 RT	350211.78	575397.10	758.425
171	297+21.46	89.777 RT	350208.21	575397.36	758.227
172	297+26.33	89.827 RT	350208.22	575402.23	758.569
173	297+26.25	86.183 RT	350211.86	575402.11	758.500
174	297+25.95	81.184 RT	350216.85	575401.75	758.555
175	297+25.64	76.185 RT	350221.85	575401.39	758.502
176	297+25.35	71.338 RT	350226.69	575401.05	758.455
177	297+30.44	72.598 RT	350225.49	575406.15	758.682
178	297+36.66	74.043 RT	350224.12	575412.39	758.808
179	297+36.75	69.007 RT	350229.15	575412.42	758.822
180	297+31.70	67.745 RT	350230.36	575407.36	758.630
181	297+17.11	62.949 RT	350234.99	575392.71	758.144
182	297+21.25	95.941 RT	350202.04	575397.23	758.161
183	297+26.20	95.995 RT	350202.05	575402.17	758.446



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
211	297+33.94	5.007 RT	350293.12	575408.88	758.100
212	297+38.95	5.007 RT	350293.17	575413.89	758.113
213	297+39.18	9.174 RT	350289.01	575414.17	758.259
214	297+38.12	13.569 RT	350284.60	575413.16	758.397
215	297+33.26	12.414 RT	350285.70	575408.28	758.361
216	297+34.15	8.718 RT	350289.41	575409.13	758.230
217	297+33.86	9.891 RT	350288.23	575408.86	758.281



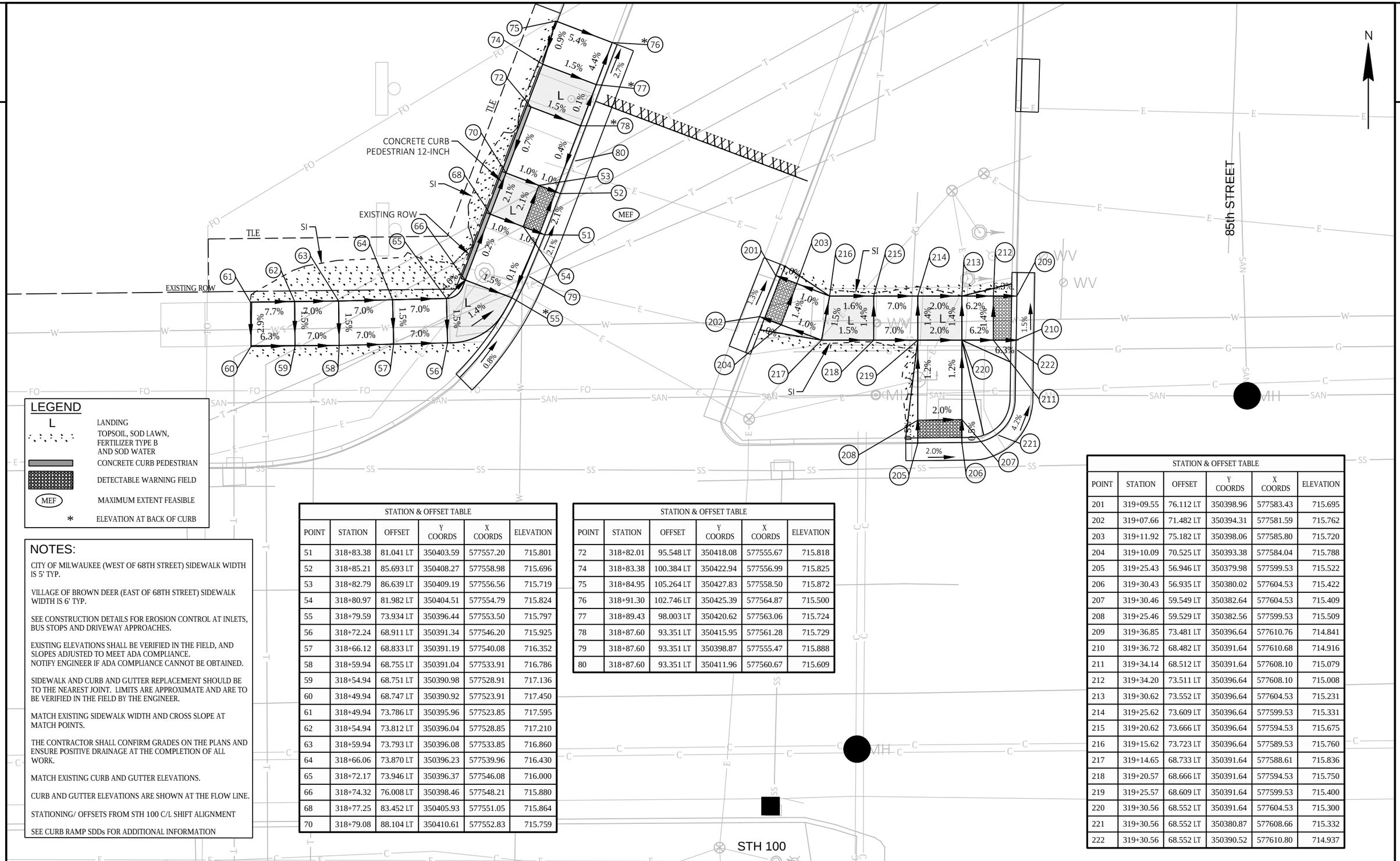
91ST STREET

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CURB RAMP DETAILS - 91ST STREET	SHEET 90	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021301B_CD_CURB RAMPS-91ST.DWG
LAYOUT NAME - 01

PLOT DATE : 10/20/2020 1:06 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42



NOTES:

CITY OF MILWAUKEE (WEST OF 68TH STREET) SIDEWALK WIDTH IS 5' TYP.

VILLAGE OF BROWN DEER (EAST OF 68TH STREET) SIDEWALK WIDTH IS 6' TYP.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD, AND SLOPES ADJUSTED TO MEET ADA COMPLIANCE.
NOTIFY ENGINEER IF ADA COMPLIANCE CANNOT BE OBTAINED.

SIDEWALK AND CURB AND GUTTER REPLACEMENT SHOULD BE TO THE NEAREST JOINT. LIMITS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

MATCH EXISTING SIDEWALK WIDTH AND CROSS SLOPE AT MATCH POINTS.

THE CONTRACTOR SHALL CONFIRM GRADES ON THE PLANS AND ENSURE POSITIVE DRAINAGE AT THE COMPLETION OF ALL WORK.

MATCH EXISTING CURB AND GUTTER ELEVATIONS.

CURB AND GUTTER ELEVATIONS ARE SHOWN AT THE FLOW LINE.

STATIONING/ OFFSETS FROM STH 100 C/L SHIFT ALIGNMENT

SEE CURB RAMP SDDs FOR ADDITIONAL INFORMATION

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
51	318+83.38	81.041 LT	350403.59	577557.20	715.801
52	318+85.21	85.693 LT	350408.27	577558.98	715.696
53	318+82.79	86.639 LT	350409.19	577556.56	715.719
54	318+80.97	81.982 LT	350404.51	577554.79	715.824
55	318+79.59	73.934 LT	350396.44	577553.50	715.797
56	318+72.24	68.911 LT	350391.34	577546.20	715.925
57	318+66.12	68.833 LT	350391.19	577540.08	716.352
58	318+59.94	68.755 LT	350391.04	577533.91	716.786
59	318+54.94	68.751 LT	350390.98	577528.91	717.136
60	318+49.94	68.747 LT	350390.92	577523.91	717.450
61	318+49.94	73.786 LT	350395.96	577523.85	717.595
62	318+54.94	73.812 LT	350396.04	577528.85	717.210
63	318+59.94	73.793 LT	350396.08	577533.85	716.860
64	318+66.06	73.870 LT	350396.23	577539.96	716.430
65	318+72.17	73.946 LT	350396.37	577546.08	716.000
66	318+74.32	76.008 LT	350398.46	577548.21	715.880
68	318+77.25	83.452 LT	350405.93	577551.05	715.864
70	318+79.08	88.104 LT	350410.61	577552.83	715.759

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
72	318+82.01	95.548 LT	350418.08	577555.67	715.818
74	318+83.38	100.384 LT	350422.94	577556.99	715.825
75	318+84.95	105.264 LT	350427.83	577558.50	715.872
76	318+91.30	102.746 LT	350425.39	577564.87	715.500
77	318+89.43	98.003 LT	350420.62	577563.06	715.724
78	318+87.60	93.351 LT	350415.95	577561.28	715.729
79	318+87.60	93.351 LT	350398.87	577555.47	715.888
80	318+87.60	93.351 LT	350411.96	577560.67	715.609

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
201	319+09.55	76.112 LT	350398.96	577583.43	715.695
202	319+07.66	71.482 LT	350394.31	577581.59	715.762
203	319+11.92	75.182 LT	350398.06	577585.80	715.720
204	319+10.09	70.525 LT	350393.38	577584.04	715.788
205	319+25.43	56.946 LT	350379.98	577599.53	715.522
206	319+30.43	56.935 LT	350380.02	577604.53	715.422
207	319+30.46	59.549 LT	350382.64	577604.53	715.409
208	319+25.46	59.529 LT	350382.56	577599.53	715.509
209	319+36.85	73.481 LT	350396.64	577610.76	714.841
210	319+36.72	68.482 LT	350391.64	577610.68	714.916
211	319+34.14	68.512 LT	350391.64	577608.10	715.079
212	319+34.20	73.511 LT	350396.64	577608.10	715.008
213	319+30.62	73.552 LT	350396.64	577604.53	715.231
214	319+25.62	73.609 LT	350396.64	577599.53	715.331
215	319+20.62	73.666 LT	350396.64	577594.53	715.675
216	319+15.62	73.723 LT	350396.64	577589.53	715.760
217	319+14.65	68.733 LT	350391.64	577588.61	715.836
218	319+20.57	68.666 LT	350391.64	577594.53	715.750
219	319+25.57	68.609 LT	350391.64	577599.53	715.400
220	319+30.56	68.552 LT	350391.64	577604.53	715.300
221	319+30.56	68.552 LT	350380.87	577608.66	715.332
222	319+30.56	68.552 LT	350390.52	577610.80	714.937

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CURB RAMP DETAILS - 85TH STREET	SHEET 91	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021302_CD_CURB RAMPS-85TH.DWG
LAYOUT NAME - 01
PLOT DATE : 10/20/2020 1:10 PM
PLOT BY : SCHMIDT, JUDENE M
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
2	319+24.14	56.483 RT	350266.54	577599.53	717.277
3	319+29.12	58.890 RT	350264.19	577604.53	717.259
4	319+24.11	59.519 RT	350263.51	577599.53	717.323
5	319+24.09	61.519 RT	350261.51	577599.53	717.413
6	319+24.02	66.915 RT	350256.11	577599.53	717.690
7	319+29.02	66.916 RT	350256.17	577604.53	717.640
8	319+29.09	61.576 RT	350261.51	577604.53	717.403
9	319+34.47	66.932 RT	350256.23	577609.97	717.416
10	319+37.16	66.918 RT	350256.26	577612.66	717.308
11	319+39.58	71.922 RT	350251.28	577615.14	717.348
12	319+36.48	71.922 RT	350251.24	577612.04	717.373
13	319+34.48	71.927 RT	350251.22	577610.04	717.453
14	319+28.97	71.921 RT	350251.16	577604.53	717.690
15	319+23.97	71.920 RT	350251.10	577599.53	717.742
16	319+18.73	71.613 RT	350251.35	577594.29	717.899
17	319+13.74	71.320 RT	350251.59	577589.30	718.049
18	319+08.75	71.027 RT	350251.82	577584.30	718.199
19	319+03.76	70.734 RT	350252.06	577579.31	718.349
20	319+00.20	70.525 RT	350252.23	577575.74	718.422
21	319+00.53	65.368 RT	350257.39	577576.01	718.547
22	319+04.05	65.743 RT	350257.05	577579.54	718.290
23	319+09.04	66.058 RT	350256.80	577584.54	718.140
24	319+14.04	66.329 RT	350256.58	577589.53	717.990
25	319+19.03	66.622 RT	350256.35	577594.53	717.840
26	319+19.03	66.622 RT	350258.64	577611.06	717.290

STATION & OFFSET TABLE

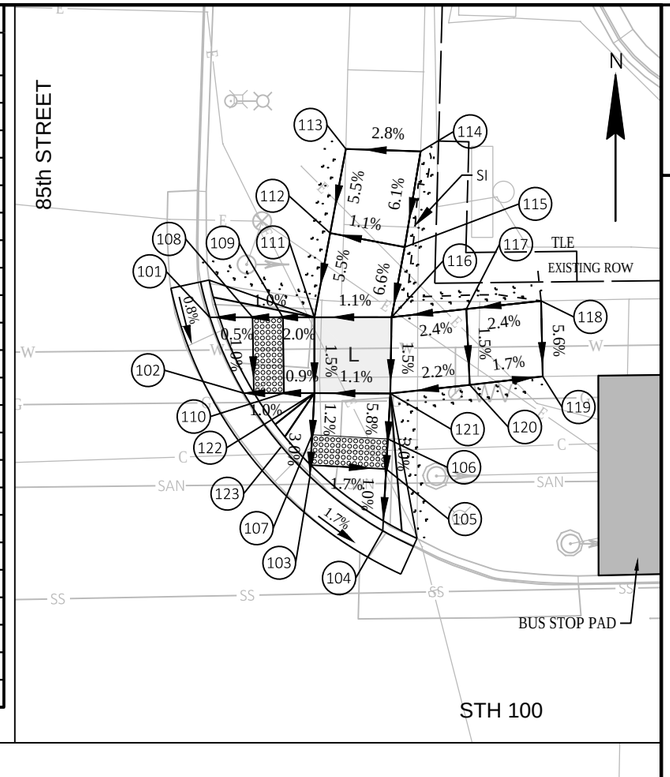
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
151	319+76.24	71.926 RT	350251.69	577651.80	716.981
152	319+77.71	66.926 RT	350256.71	577653.21	716.877
153	319+78.35	71.926 RT	350251.72	577653.90	716.949
154	319+80.35	71.927 RT	350251.74	577655.90	716.873
155	319+83.79	71.927 RT	350251.78	577659.35	716.747
156	319+83.92	66.927 RT	350256.78	577659.42	716.670
157	319+80.35	66.927 RT	350256.74	577655.85	716.777
158	319+84.47	58.683 RT	350265.03	577659.87	716.356
159	319+89.65	56.067 RT	350267.70	577665.03	716.240
160	319+89.40	59.756 RT	350264.01	577664.83	716.295
161	319+89.27	61.752 RT	350262.01	577664.71	716.395
162	319+88.93	66.888 RT	350256.87	577664.43	716.745
163	319+84.29	61.435 RT	350262.27	577659.72	716.494
164	319+93.55	67.610 RT	350256.20	577669.06	716.815
165	319+97.53	68.233 RT	350255.63	577673.05	716.876
166	320+01.23	68.993 RT	350254.91	577676.75	716.797
167	320+01.14	73.858 RT	350250.04	577676.72	716.850
168	319+96.76	73.173 RT	350250.68	577672.33	716.941
169	319+92.78	72.550 RT	350251.26	577668.34	716.880
170	319+88.79	71.927 RT	350251.83	577664.35	716.820

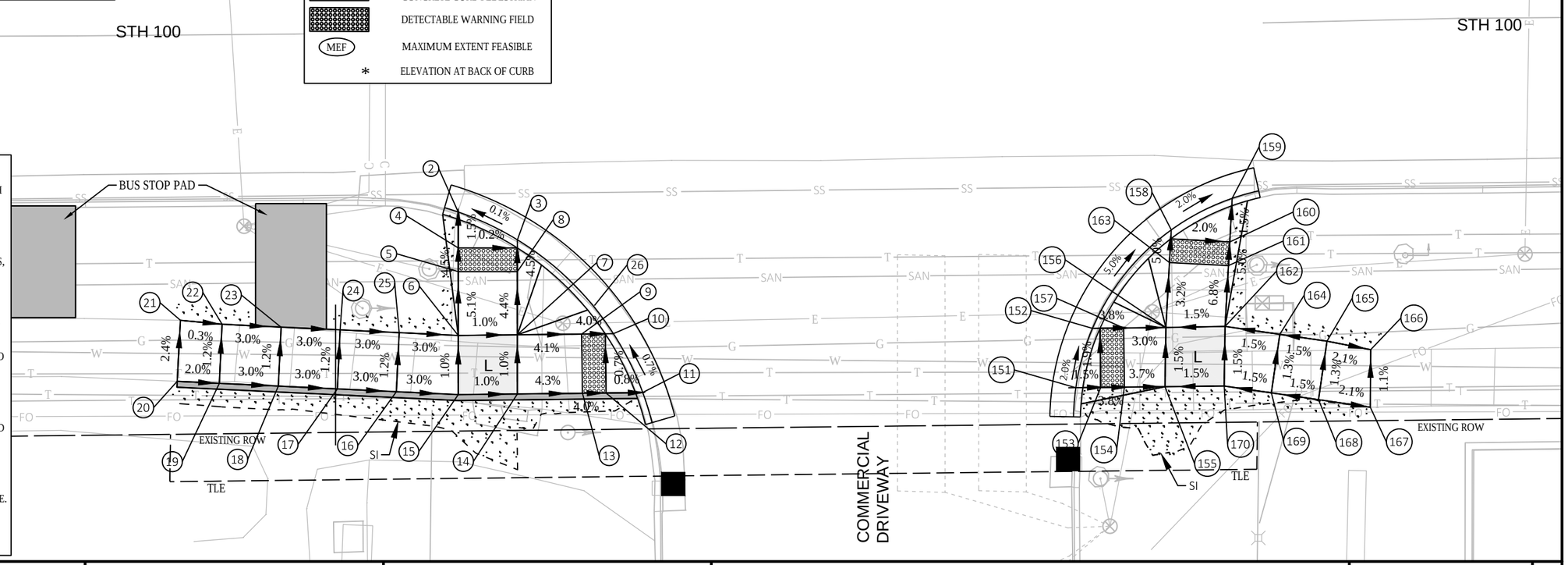
STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
101	319+86.09	72.922 LT	350396.64	577660.00	714.455
102	319+88.25	67.896 LT	350391.64	577662.22	714.411
103	319+92.57	62.325 LT	350386.12	577666.60	714.340
104	319+97.33	58.699 LT	350382.55	577671.40	714.237
105	319+97.61	62.781 LT	350386.63	577671.63	714.278
106	319+97.74	64.766 LT	350388.62	577671.74	714.338
107	319+92.74	65.091 LT	350388.89	577666.75	714.423
108	319+88.91	72.889 LT	350396.64	577662.82	714.469
109	319+90.91	72.867 LT	350396.64	577664.82	714.489
110	319+90.92	67.866 LT	350391.64	577664.89	714.438
111	319+92.99	72.843 LT	350396.64	577666.90	714.530
112	319+94.09	78.382 LT	350402.19	577667.94	714.841
113	319+95.19	83.921 LT	350407.74	577668.98	715.149
114	320+00.12	83.711 LT	350407.59	577673.91	715.286
115	319+99.00	77.408 LT	350401.28	577672.85	714.895
116	319+98.08	72.795 LT	350396.65	577671.99	714.586
117	320+03.02	73.274 LT	350397.19	577676.92	714.706
118	320+07.95	73.753 LT	350397.72	577681.85	714.825
119	320+08.01	68.773 LT	350392.74	577681.96	714.546
120	320+03.19	68.267 LT	350392.18	577677.15	714.630
121	319+97.94	67.758 LT	350391.61	577671.91	714.512
122	319+92.93	67.843 LT	350391.64	577666.90	714.457
123	319+92.93	67.843 LT	350388.08	577664.69	714.376

LEGEND

L	LANDING
	TOPSOIL, SOD LAWN, FERTILIZER TYPE B AND SOD WATER
	CONCRETE CURB PEDESTRIAN
	DETECTABLE WARNING FIELD
MEF	MAXIMUM EXTENT FEASIBLE
*	ELEVATION AT BACK OF CURB





NOTES:

CITY OF MILWAUKEE (WEST OF 68TH STREET) SIDEWALK WIDTH IS 5' TYP.

VILLAGE OF BROWN DEER (EAST OF 68TH STREET) SIDEWALK WIDTH IS 6' TYP.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD, AND SLOPES ADJUSTED TO MEET ADA COMPLIANCE.
NOTIFY ENGINEER IF ADA COMPLIANCE CANNOT BE OBTAINED.

SIDEWALK AND CURB AND GUTTER REPLACEMENT SHOULD BE TO THE NEAREST JOINT. LIMITS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

MATCH EXISTING SIDEWALK WIDTH AND CROSS SLOPE AT MATCH POINTS.

THE CONTRACTOR SHALL CONFIRM GRADES ON THE PLANS AND ENSURE POSITIVE DRAINAGE AT THE COMPLETION OF ALL WORK.

MATCH EXISTING CURB AND GUTTER ELEVATIONS.

CURB AND GUTTER ELEVATIONS ARE SHOWN AT THE FLOW LINE.

STATIONING/ OFFSETS FROM STH 100 C/L SHIFT ALIGNMENT

SEE CURB RAMP SDDs FOR ADDITIONAL INFORMATION

STH 100

325+00

326+00

STH 100

LEGEND

L	LANDING
	TOPSOIL, SOD LAWN, FERTILIZER TYPE B AND SOD WATER
	CONCRETE CURB PEDESTRIAN
	DETECTABLE WARNING FIELD
MEF	MAXIMUM EXTENT FEASIBLE
*	ELEVATION AT BACK OF CURB

MH

NOTES:

CITY OF MILWAUKEE (WEST OF 68TH STREET) SIDEWALK WIDTH IS 5' TYP.

VILLAGE OF BROWN DEER (EAST OF 68TH STREET) SIDEWALK WIDTH IS 6' TYP.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD, AND SLOPES ADJUSTED TO MEET ADA COMPLIANCE. NOTIFY ENGINEER IF ADA COMPLIANCE CANNOT BE OBTAINED.

SIDEWALK AND CURB AND GUTTER REPLACEMENT SHOULD BE TO THE NEAREST JOINT. LIMITS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

MATCH EXISTING SIDEWALK WIDTH AND CROSS SLOPE AT MATCH POINTS.

THE CONTRACTOR SHALL CONFIRM GRADES ON THE PLANS AND ENSURE POSITIVE DRAINAGE AT THE COMPLETION OF ALL WORK.

MATCH EXISTING CURB AND GUTTER ELEVATIONS.

CURB AND GUTTER ELEVATIONS ARE SHOWN AT THE FLOW LINE.

STATIONING/ OFFSETS FROM STH 100 C/L SHIFT ALIGNMENT

SEE CURB RAMP SDDs FOR ADDITIONAL INFORMATION

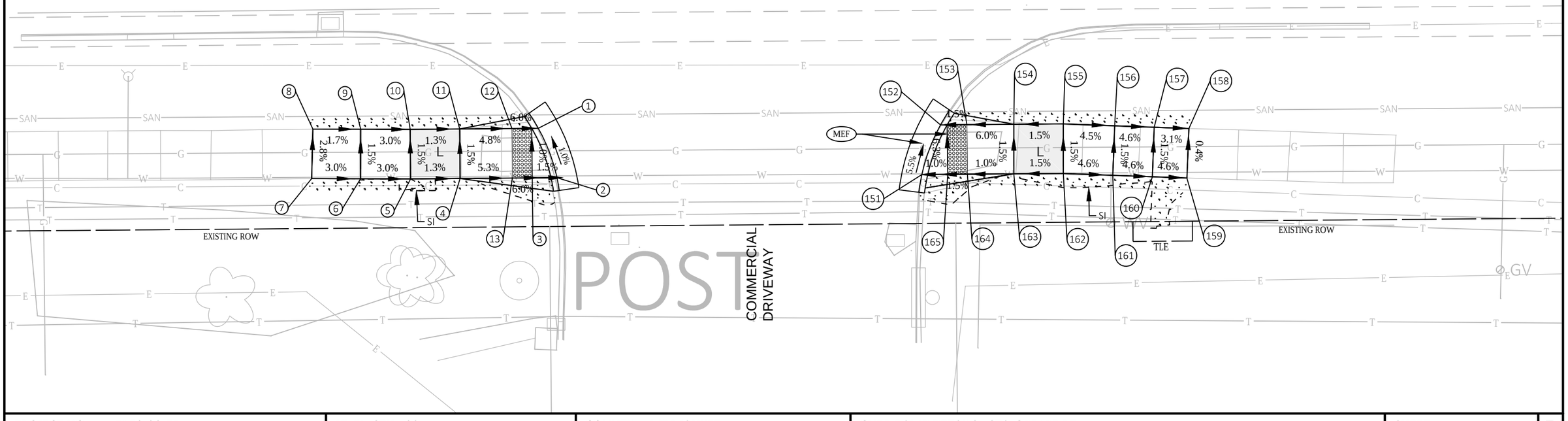
STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
1	325+08.50	65.075 RT	350264.05	578183.75	707.649
2	325+10.35	70.075 RT	350259.07	578185.64	707.703
3	325+07.85	70.075 RT	350259.04	578183.14	707.741
4	325+00.56	70.077 RT	350258.98	578175.85	708.141
5	324+95.56	70.078 RT	350258.94	578170.85	708.207
6	324+90.50	70.017 RT	350258.96	578165.79	708.356
7	324+85.56	69.959 RT	350258.98	578160.85	708.503
8	324+85.72	64.968 RT	350263.97	578160.97	708.362
9	324+90.56	65.018 RT	350263.96	578165.81	708.280
10	324+95.56	65.077 RT	350263.94	578170.81	708.130
11	325+00.56	65.077 RT	350263.98	578175.81	708.064
12	325+05.84	65.075 RT	350264.03	578181.09	707.808
13	325+05.85	70.076 RT	350259.03	578181.14	707.861

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
151	325+47.22	70.070 RT	350259.37	578222.50	707.333
152	325+49.15	65.067 RT	350264.39	578224.39	707.035
153	325+51.82	65.067 RT	350264.42	578227.07	707.075
154	325+56.56	65.066 RT	350264.46	578231.80	707.359
155	325+61.56	65.065 RT	350264.50	578236.80	707.435
156	325+66.74	65.302 RT	350264.30	578241.99	707.203
157	325+70.74	65.484 RT	350264.15	578245.99	707.020
158	325+74.24	65.644 RT	350264.02	578249.49	706.913
159	325+74.00	70.631 RT	350259.04	578249.29	706.935
160	325+70.51	70.479 RT	350259.16	578245.80	707.097
161	325+66.51	70.297 RT	350259.31	578241.80	707.280
162	325+61.52	70.069 RT	350259.49	578236.80	707.510
163	325+56.52	70.069 RT	350259.45	578231.80	707.436
164	325+51.82	70.070 RT	350259.41	578227.11	707.389
165	325+49.83	70.070 RT	350259.40	578225.12	707.359

N



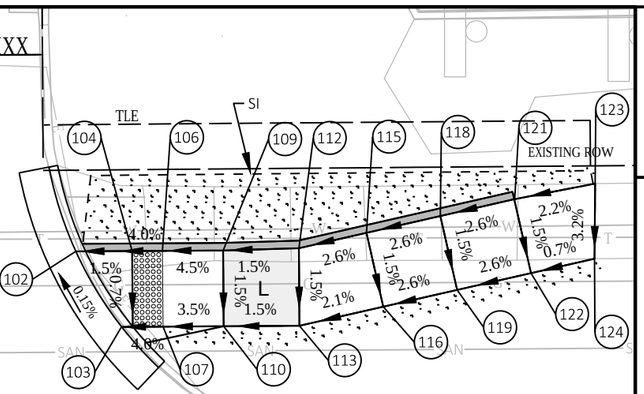
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CURB RAMP DETAILS - STA. 325+25 RT	SHEET 93	E

FILE NAME : N:\PDS\C3D\215000001\SHEETSPLAN\021304_CD_CURB RAMPS-STA325.DWG
LAYOUT NAME - 01

PLOT DATE : 10/20/2020 1:22 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42





82ND STREET

XXXX XXXX XXXX XXXX XXXX XXXX XXXX

XXXX XXXX XXXX XXXX XXXX XXXX XXXX

LEGEND

L	LANDING
	TOPSOIL, SOD LAWN, FERTILIZER TYPE B AND SOD WATER
	CONCRETE CURB PEDESTRIAN
	DETECTABLE WARNING FIELD
MEF	MAXIMUM EXTENT FEASIBLE
*	ELEVATION AT BACK OF CURB

NOTES:

CITY OF MILWAUKEE (WEST OF 68TH STREET) SIDEWALK WIDTH IS 5' TYP.

VILLAGE OF BROWN DEER (EAST OF 68TH STREET) SIDEWALK WIDTH IS 6' TYP.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD, AND SLOPES ADJUSTED TO MEET ADA COMPLIANCE. NOTIFY ENGINEER IF ADA COMPLIANCE CANNOT BE OBTAINED.

SIDEWALK AND CURB AND GUTTER REPLACEMENT SHOULD BE TO THE NEAREST JOINT. LIMITS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

MATCH EXISTING SIDEWALK WIDTH AND CROSS SLOPE AT MATCH POINTS.

THE CONTRACTOR SHALL CONFIRM GRADES ON THE PLANS AND ENSURE POSITIVE DRAINAGE AT THE COMPLETION OF ALL WORK.

MATCH EXISTING CURB AND GUTTER ELEVATIONS.

CURB AND GUTTER ELEVATIONS ARE SHOWN AT THE FLOW LINE.

STATIONING/ OFFSETS FROM STH 100 C/L SHIFT ALIGNMENT

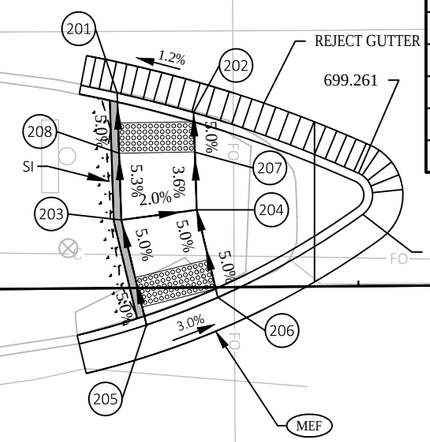
SEE CURB RAMP SDDs FOR ADDITIONAL INFORMATION

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
51	330+51.94	69.790 LT	350403.40	578726.05	697.952
52	330+48.71	64.796 LT	350398.38	578722.86	698.072
53	330+38.11	57.045 LT	350390.55	578712.33	698.542
54	330+33.15	55.611 LT	350389.07	578707.38	698.620
55	330+33.10	57.622 LT	350391.08	578707.31	698.636
56	330+33.05	59.622 LT	350393.08	578707.25	698.652
57	330+38.05	59.656 LT	350393.16	578712.25	698.563
58	330+32.92	64.826 LT	350398.28	578707.08	698.670
59	330+37.92	64.816 LT	350398.32	578712.08	698.600
60	330+45.95	64.801 LT	350398.37	578720.11	698.210
61	330+45.96	69.801 LT	350403.37	578720.07	698.131
62	330+47.95	69.797 LT	350403.38	578722.06	698.032
63	330+37.82	69.818 LT	350403.31	578711.97	698.650
64	330+32.86	69.992 LT	350403.45	578706.97	698.720
65	330+29.71	70.769 LT	350404.20	578703.82	698.811
66	330+24.86	71.968 LT	350405.36	578698.96	698.986
67	330+20.00	73.167 LT	350406.52	578694.09	699.161
68	330+15.54	73.929 LT	350407.24	578689.62	699.334
69	330+15.77	69.063 LT	350402.38	578689.89	699.317
70	330+18.81	68.312 LT	350401.65	578692.93	699.110
71	330+23.66	67.114 LT	350400.49	578697.80	698.935
72	330+28.51	65.915 LT	350399.34	578702.66	698.760

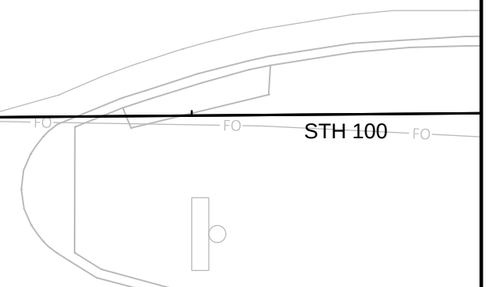
STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
102	331+32.76	69.638 LT	350403.92	578806.87	697.606
103	331+35.73	64.633 LT	350398.94	578809.89	697.597
104	331+36.48	69.631 LT	350403.95	578810.59	697.662
106	331+38.48	69.627 LT	350403.96	578812.59	697.742
107	331+38.48	64.627 LT	350398.96	578812.63	697.707
109	331+42.49	69.620 LT	350403.98	578816.60	697.922
110	331+42.48	64.620 LT	350398.98	578816.63	697.847
112	331+47.49	69.731 LT	350404.14	578821.60	697.997
113	331+47.48	64.611 LT	350399.02	578821.63	697.922
115	331+51.95	70.706 LT	350405.15	578826.05	698.116
116	331+53.02	65.822 LT	350400.27	578827.16	698.040
118	331+56.83	71.774 LT	350406.26	578830.93	698.246
119	331+57.90	66.889 LT	350401.38	578832.04	698.170
121	331+61.75	72.848 LT	350407.37	578835.84	698.376
122	331+62.79	67.957 LT	350402.49	578836.91	698.300
123	331+67.07	73.830 LT	350408.40	578841.15	698.493
124	331+66.99	68.875 LT	350403.44	578841.10	698.332



STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
201	330+34.18	12.885 LT	350346.36	578708.77	699.057
202	330+39.22	11.550 LT	350345.06	578713.81	699.122
203	330+34.38	4.496 LT	350337.97	578709.04	699.491
204	330+39.37	5.128 LT	350338.64	578714.02	699.390
205	330+35.99	2.437 RT	350331.05	578710.70	699.847
206	330+40.71	0.664 RT	350332.86	578715.41	699.686
207	330+39.28	8.946 LT	350342.45	578713.90	699.253
208	330+34.27	8.902 LT	350342.37	578708.90	699.256



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CURB RAMP DETAILS - 82ND STREET	SHEET 94	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021305A_CD_CURB RAMPS-82ND.DWG
LAYOUT NAME - 01
PLOT DATE : 10/20/2020 1:25 PM
PLOT BY : SCHMIDT, JUDENE M
PLOT NAME :
PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
2	330+48.27	55.417 RT	350278.17	578723.42	700.155
3	330+53.73	56.844 RT	350276.79	578728.89	700.192
4	330+62.46	64.974 RT	350268.73	578737.69	700.306
5	330+65.31	69.974 RT	350263.76	578740.58	700.392
6	330+61.77	69.974 RT	350263.73	578737.04	700.427
7	330+59.77	69.974 RT	350263.71	578735.04	700.497
8	330+59.77	64.974 RT	350268.71	578735.00	700.400
9	330+55.62	64.974 RT	350268.68	578730.85	700.540
10	330+54.35	59.496 RT	350274.14	578729.53	700.355
11	330+49.06	58.715 RT	350274.88	578724.24	700.189
12	330+49.49	60.669 RT	350272.93	578724.68	700.309
13	330+50.48	64.973 RT	350268.63	578725.71	700.605
14	330+45.48	64.956 RT	350268.61	578720.71	700.680
15	330+45.47	69.955 RT	350263.61	578720.74	700.757
16	330+50.62	69.973 RT	350263.64	578725.89	700.680
17	330+55.62	69.974 RT	350263.68	578730.89	700.615
18	330+40.48	64.938 RT	350268.59	578715.71	700.755
19	330+34.98	64.955 RT	350268.52	578710.20	700.817
20	330+34.97	69.919 RT	350263.56	578710.24	700.837
21	330+40.47	69.938 RT	350263.59	578715.74	700.832
22	330+40.47	69.938 RT	350273.33	578734.25	700.218

LEGEND

L	LANDING
	TOPSOIL, SOD LAWN, FERTILIZER TYPE B AND SOD WATER
	CONCRETE CURB PEDESTRIAN
	DETECTABLE WARNING FIELD
MEF	MAXIMUM EXTENT FEASIBLE
*	ELEVATION AT BACK OF CURB

N

331+00

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
151	331+20.85	64.979 RT	350269.21	578796.07	700.087
152	331+18.87	69.978 RT	350264.19	578794.13	700.309
154	331+21.51	69.979 RT	350264.22	578796.78	700.335
156	331+23.51	69.979 RT	350264.23	578798.78	700.395
157	331+23.51	64.979 RT	350269.23	578798.74	700.167
159	331+29.28	69.979 RT	350264.28	578804.55	700.480
160	331+29.32	64.979 RT	350269.28	578804.55	700.403
162	331+34.28	69.980 RT	350264.32	578809.55	700.555
163	331+34.32	64.980 RT	350269.32	578809.55	700.478
165	331+39.27	70.039 RT	350264.30	578814.54	700.445
166	331+39.32	65.040 RT	350269.30	578814.55	700.370
168	331+43.94	69.645 RT	350264.74	578819.21	700.413
169	331+44.07	65.096 RT	350269.28	578819.29	700.265

NOTES:

CITY OF MILWAUKEE (WEST OF 68TH STREET) SIDEWALK WIDTH IS 5' TYP.

VILLAGE OF BROWN DEER (EAST OF 68TH STREET) SIDEWALK WIDTH IS 6' TYP.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD, AND SLOPES ADJUSTED TO MEET ADA COMPLIANCE. NOTIFY ENGINEER IF ADA COMPLIANCE CANNOT BE OBTAINED.

SIDEWALK AND CURB AND GUTTER REPLACEMENT SHOULD BE TO THE NEAREST JOINT. LIMITS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

MATCH EXISTING SIDEWALK WIDTH AND CROSS SLOPE AT MATCH POINTS.

THE CONTRACTOR SHALL CONFIRM GRADES ON THE PLANS AND ENSURE POSITIVE DRAINAGE AT THE COMPLETION OF ALL WORK.

MATCH EXISTING CURB AND GUTTER ELEVATIONS.

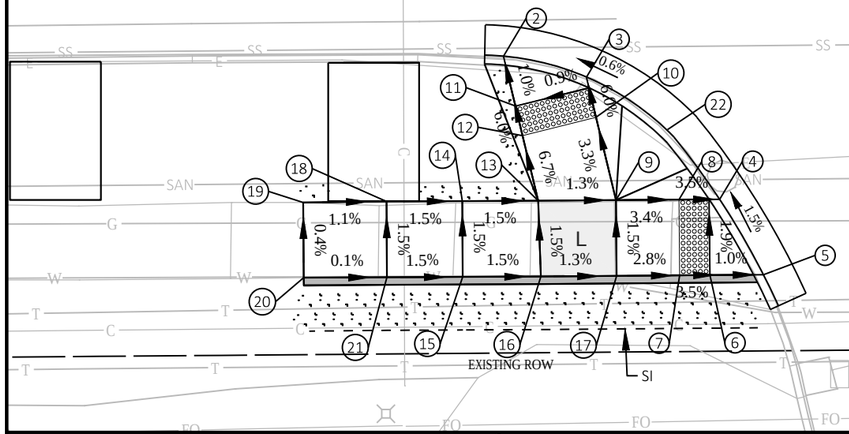
CURB AND GUTTER ELEVATIONS ARE SHOWN AT THE FLOW LINE.

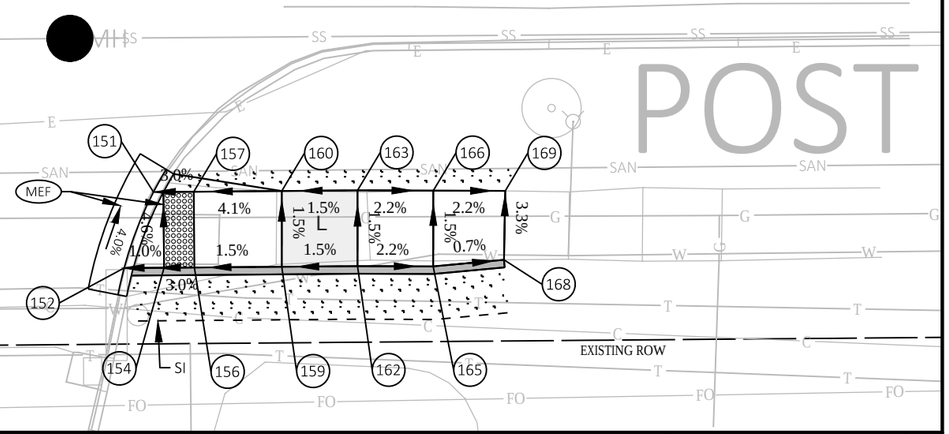
STATIONING/ OFFSETS FROM STH 100 C/L SHIFT ALIGNMENT

SEE CURB RAMP SDDs FOR ADDITIONAL INFORMATION

STH 100

STH 100





COMMERCIAL DRIVEWAY

POST

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CURB RAMP DETAILS - 82ND STREET	SHEET 95	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\0213058_CD_CURB RAMPS-82ND.DWG
LAYOUT NAME - 01

PLOT DATE : 10/20/2020 1:28 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : ##########

NOTES:

CITY OF MILWAUKEE (WEST OF 68TH STREET) SIDEWALK WIDTH IS 5' TYP.

VILLAGE OF BROWN DEER (EAST OF 68TH STREET) SIDEWALK WIDTH IS 6' TYP.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD, AND SLOPES ADJUSTED TO MEET ADA COMPLIANCE. NOTIFY ENGINEER IF ADA COMPLIANCE CANNOT BE OBTAINED.

SIDEWALK AND CURB AND GUTTER REPLACEMENT SHOULD BE TO THE NEAREST JOINT. LIMITS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

MATCH EXISTING SIDEWALK WIDTH AND CROSS SLOPE AT MATCH POINTS.

THE CONTRACTOR SHALL CONFIRM GRADES ON THE PLANS AND ENSURE POSITIVE DRAINAGE AT THE COMPLETION OF ALL WORK.

MATCH EXISTING CURB AND GUTTER ELEVATIONS.

CURB AND GUTTER ELEVATIONS ARE SHOWN AT THE FLOW LINE.

STATIONING/ OFFSETS FROM STH 100 C/L SHIFT ALIGNMENT

SEE CURB RAMP SDDs FOR ADDITIONAL INFORMATION

LEGEND

L	LANDING
	TOPSOIL, SOD LAWN, FERTILIZER TYPE B AND SOD WATER
	CONCRETE CURB PEDESTRIAN
	DETECTABLE WARNING FIELD
MEF	MAXIMUM EXTENT FEASIBLE
*	ELEVATION AT BACK OF CURB

80TH STREET

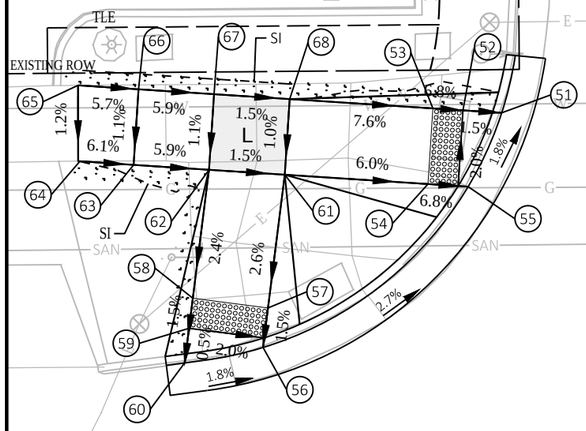
EXISTING ROW

TLE

PLE

SI

STH 100

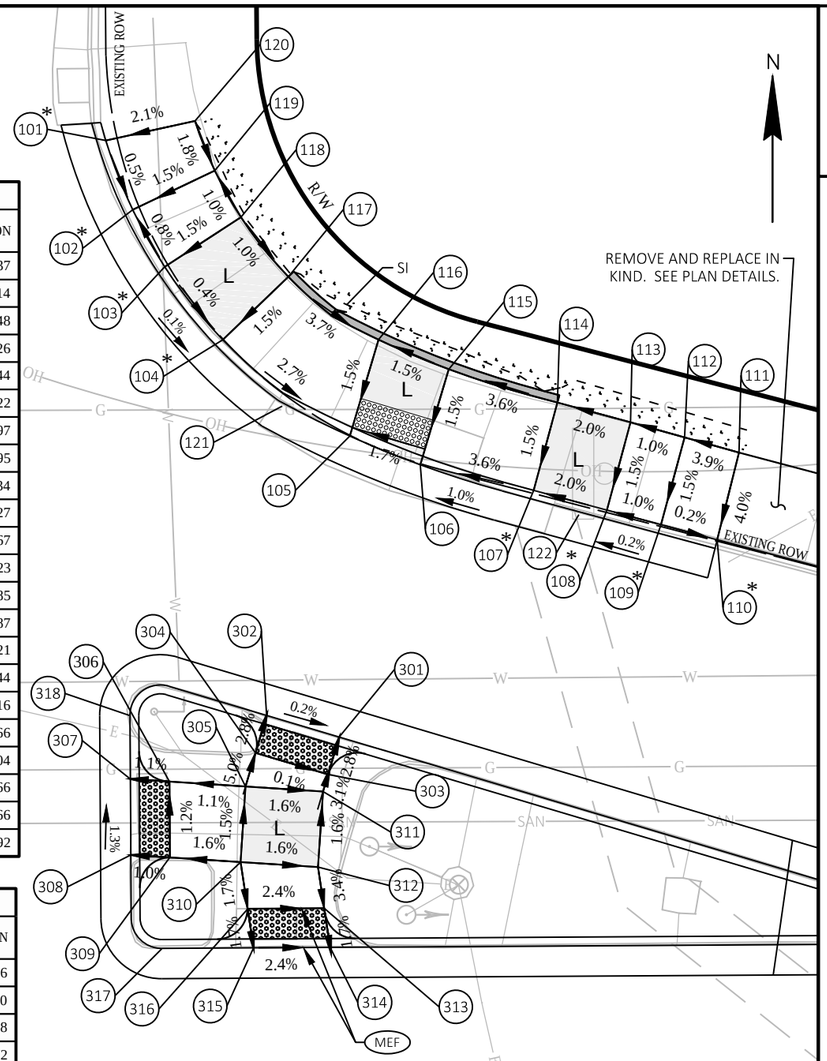


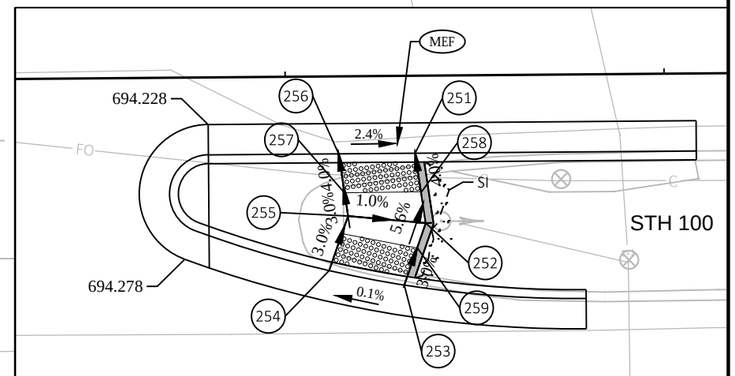
STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
51	337+32.46	72.145 LT	350411.39	579406.53	693.458
52	337+29.91	72.332 LT	350411.55	579403.98	693.496
53	337+27.93	72.477 LT	350411.68	579402.00	693.632
54	337+27.56	67.491 LT	350406.69	579401.67	693.735
55	337+30.21	67.297 LT	350406.52	579404.32	693.554
56	337+16.20	56.682 LT	350395.91	579390.79	694.031
57	337+16.64	59.280 LT	350398.51	579391.12	694.070
58	337+11.71	60.114 LT	350399.16	579386.16	694.168
59	337+11.38	58.141 LT	350397.17	579385.91	694.138
60	337+10.98	55.747 LT	350394.89	579385.62	694.127
61	337+18.12	68.182 LT	350407.31	579392.23	694.299
62	337+13.11	68.548 LT	350407.63	579387.23	694.374
63	337+08.15	68.912 LT	350407.95	579382.25	694.669
64	337+04.61	69.185 LT	350408.20	579378.71	694.884
65	337+04.52	74.190 LT	350413.20	579378.58	694.951
66	337+08.51	73.898 LT	350412.94	579382.57	694.880
67	337+13.50	73.533 LT	350412.62	579387.56	694.427
68	337+18.49	73.168 LT	350412.30	579392.55	694.350

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
101	338+10.58	108.479 LT	350448.37	579484.35	693.637
102	338+12.32	103.892 LT	350443.79	579486.13	693.614
103	338+14.40	100.109 LT	350440.03	579488.24	693.648
104	338+18.19	95.263 LT	350435.21	579492.07	693.626
105	338+26.52	88.840 LT	350428.86	579500.45	693.344
106	338+31.16	86.906 LT	350426.97	579505.10	693.422
107	338+38.63	85.157 LT	350425.28	579512.59	693.697
108	338+43.44	83.818 LT	350423.98	579517.42	693.795
109	338+47.01	82.824 LT	350423.01	579520.99	693.834
110	338+50.70	81.793 LT	350422.01	579524.69	693.827
111	338+52.20	87.540 LT	350427.77	579526.14	694.067
112	338+48.61	88.573 LT	350428.78	579522.54	693.923
113	338+45.06	89.597 LT	350429.77	579518.98	693.885
114	338+40.24	90.941 LT	350431.08	579514.15	693.787
115	338+33.09	93.197 LT	350433.27	579506.98	693.521
116	338+28.47	95.185 LT	350435.22	579502.35	693.444
117	338+22.55	99.388 LT	350439.38	579496.39	693.716
118	338+19.46	103.343 LT	350443.31	579493.27	693.766
119	338+17.76	106.432 LT	350446.38	579491.54	693.704
120	338+16.48	109.717 LT	350449.65	579490.23	693.766
121	338+16.48	109.717 LT	350430.84	579496.00	693.266
122	338+16.48	109.717 LT	350423.68	579515.56	693.592

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
251	338+33.54	5.112 RT	350334.97	579508.25	693.901
252	338+34.20	9.727 RT	350330.36	579508.94	694.120
253	338+32.75	13.805 RT	350326.27	579507.53	694.295
254	338+27.80	12.807 RT	350327.23	579502.57	694.287
255	338+29.07	9.215 RT	350330.83	579503.82	694.172
256	338+28.49	5.112 RT	350334.93	579503.20	694.022
257	338+28.49	5.112 RT	350332.35	579503.59	694.126
258	338+28.49	5.112 RT	350332.39	579508.64	694.005
259	338+28.49	5.112 RT	350328.74	579508.38	694.217

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
301	338+25.66	68.988 LT	350409.00	579499.76	694.096
302	338+20.88	70.455 LT	350410.43	579494.96	694.100
303	338+24.90	66.524 LT	350406.53	579499.02	694.168
304	338+20.12	67.986 LT	350407.95	579494.23	694.172
305	338+19.45	65.778 LT	350405.74	579493.57	694.288
306	338+14.79	66.119 LT	350406.06	579488.55	0.000
307	338+11.85	66.334 LT	350406.23	579485.97	694.202
308	338+11.84	61.321 LT	350401.22	579486.00	694.265
309	338+14.41	61.133 LT	350401.05	579488.57	694.291
310	338+19.08	60.791 LT	350400.75	579493.24	694.365
311	338+24.56	65.403 LT	350405.41	579498.69	694.204
312	338+24.18	60.417 LT	350400.42	579498.35	694.285
313	338+24.47	58.385 LT	350397.71	579498.76	694.186
314	338+24.94	55.116 LT	350395.12	579499.15	694.147
315	338+19.89	55.128 LT	350395.10	579494.10	694.267
316	338+19.52	57.692 LT	350397.66	579493.71	694.306
317	338+19.52	57.692 LT	350395.03	579488.03	694.335
318	338+19.52	57.692 LT	350410.43	579485.92	694.149





STH 100

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CURB RAMP DETAILS - 80TH STREET	SHEET 96	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021306_CD_CURB RAMPS-80TH.DWG
LAYOUT NAME - 01

PLOT DATE : 10/20/2020 1:34 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:10 FT

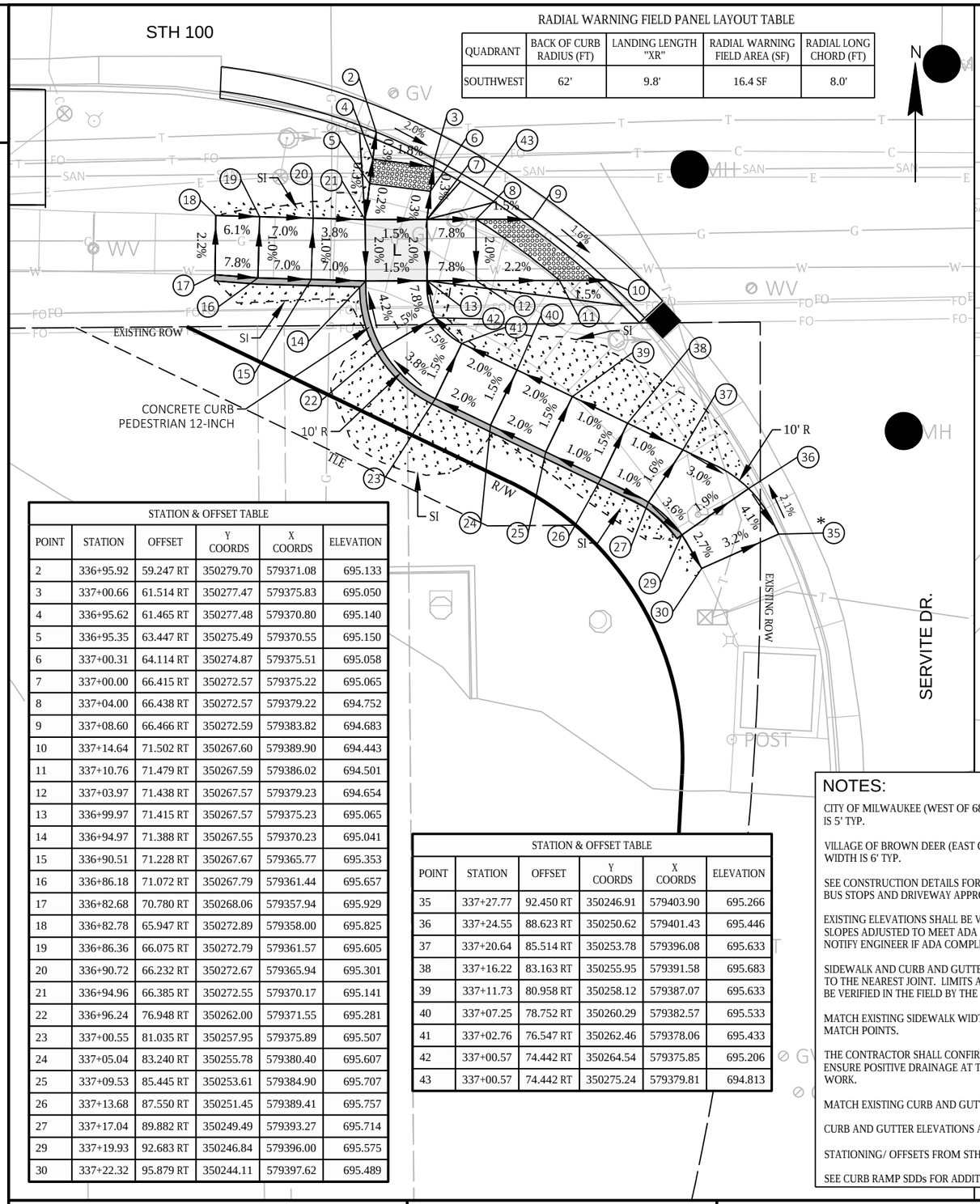
WISDOT/CADDS SHEET 42

STH 100

N

RADIAL WARNING FIELD PANEL LAYOUT TABLE

QUADRANT	BACK OF CURB RADIUS (FT)	LANDING LENGTH "XR"	RADIAL WARNING FIELD AREA (SF)	RADIAL LONG CHORD (FT)
SOUTHWEST	62'	9.8'	16.4 SF	8.0'



STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
2	336+95.92	59.247 RT	350279.70	579371.08	695.133
3	337+00.66	61.514 RT	350277.47	579375.83	695.050
4	336+95.62	61.465 RT	350277.48	579370.80	695.140
5	336+95.35	63.447 RT	350275.49	579370.55	695.150
6	337+00.31	64.114 RT	350274.87	579375.51	695.058
7	337+00.00	66.415 RT	350272.57	579375.22	695.065
8	337+04.00	66.438 RT	350272.57	579379.22	694.752
9	337+08.60	66.466 RT	350272.59	579383.82	694.683
10	337+14.64	71.502 RT	350267.60	579389.90	694.443
11	337+10.76	71.479 RT	350267.59	579386.02	694.501
12	337+03.97	71.438 RT	350267.57	579379.23	694.654
13	336+99.97	71.415 RT	350267.57	579375.23	695.065
14	336+94.97	71.388 RT	350267.55	579370.23	695.041
15	336+90.51	71.228 RT	350267.67	579365.77	695.353
16	336+86.18	71.072 RT	350267.79	579361.44	695.657
17	336+82.68	70.780 RT	350268.06	579357.94	695.929
18	336+82.78	65.947 RT	350272.89	579358.00	695.825
19	336+86.36	66.075 RT	350272.79	579361.57	695.605
20	336+90.72	66.232 RT	350272.67	579365.94	695.301
21	336+94.96	66.385 RT	350272.55	579370.17	695.141
22	336+96.24	76.948 RT	350262.00	579371.55	695.281
23	337+00.55	81.035 RT	350257.95	579375.89	695.507
24	337+05.04	83.240 RT	350255.78	579380.40	695.607
25	337+09.53	85.445 RT	350253.61	579384.90	695.707
26	337+13.68	87.550 RT	350251.45	579389.41	695.757
27	337+17.04	89.882 RT	350249.49	579393.27	695.714
29	337+19.93	92.683 RT	350246.84	579396.00	695.575
30	337+22.32	95.879 RT	350244.11	579397.62	695.489

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
35	337+27.77	92.450 RT	350246.91	579403.90	695.266
36	337+24.55	88.623 RT	350250.62	579401.43	695.446
37	337+20.64	85.514 RT	350253.78	579396.08	695.633
38	337+16.22	83.163 RT	350255.95	579391.58	695.683
39	337+11.73	80.958 RT	350258.12	579387.07	695.633
40	337+07.25	78.752 RT	350260.29	579382.57	695.533
41	337+02.76	76.547 RT	350262.46	579378.06	695.433
42	337+00.57	74.442 RT	350264.54	579375.85	695.206
43	337+00.57	74.442 RT	350275.24	579379.81	694.813

NOTES:

CITY OF MILWAUKEE (WEST OF 68TH STREET) SIDEWALK WIDTH IS 5' TYP.

VILLAGE OF BROWN DEER (EAST OF 68TH STREET) SIDEWALK WIDTH IS 6' TYP.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD, AND SLOPES ADJUSTED TO MEET ADA COMPLIANCE.
NOTIFY ENGINEER IF ADA COMPLIANCE CANNOT BE OBTAINED.

SIDEWALK AND CURB AND GUTTER REPLACEMENT SHOULD BE TO THE NEAREST JOINT. LIMITS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

MATCH EXISTING SIDEWALK WIDTH AND CROSS SLOPE AT MATCH POINTS.

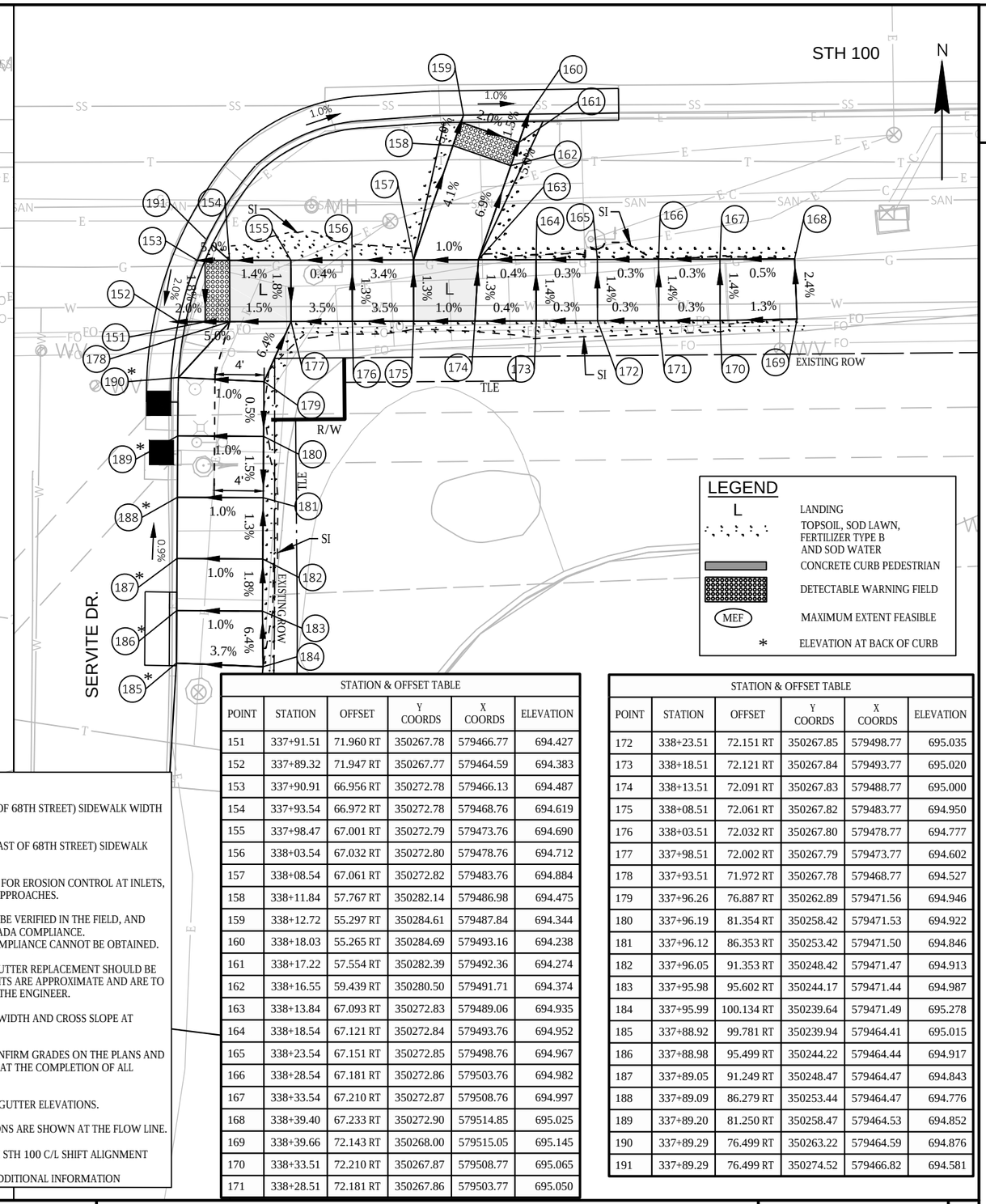
THE CONTRACTOR SHALL CONFIRM GRADES ON THE PLANS AND ENSURE POSITIVE DRAINAGE AT THE COMPLETION OF ALL WORK.

MATCH EXISTING CURB AND GUTTER ELEVATIONS.

CURB AND GUTTER ELEVATIONS ARE SHOWN AT THE FLOW LINE.

STATIONING/ OFFSETS FROM STH 100 C/L SHIFT ALIGNMENT

SEE CURB RAMP SDDs FOR ADDITIONAL INFORMATION



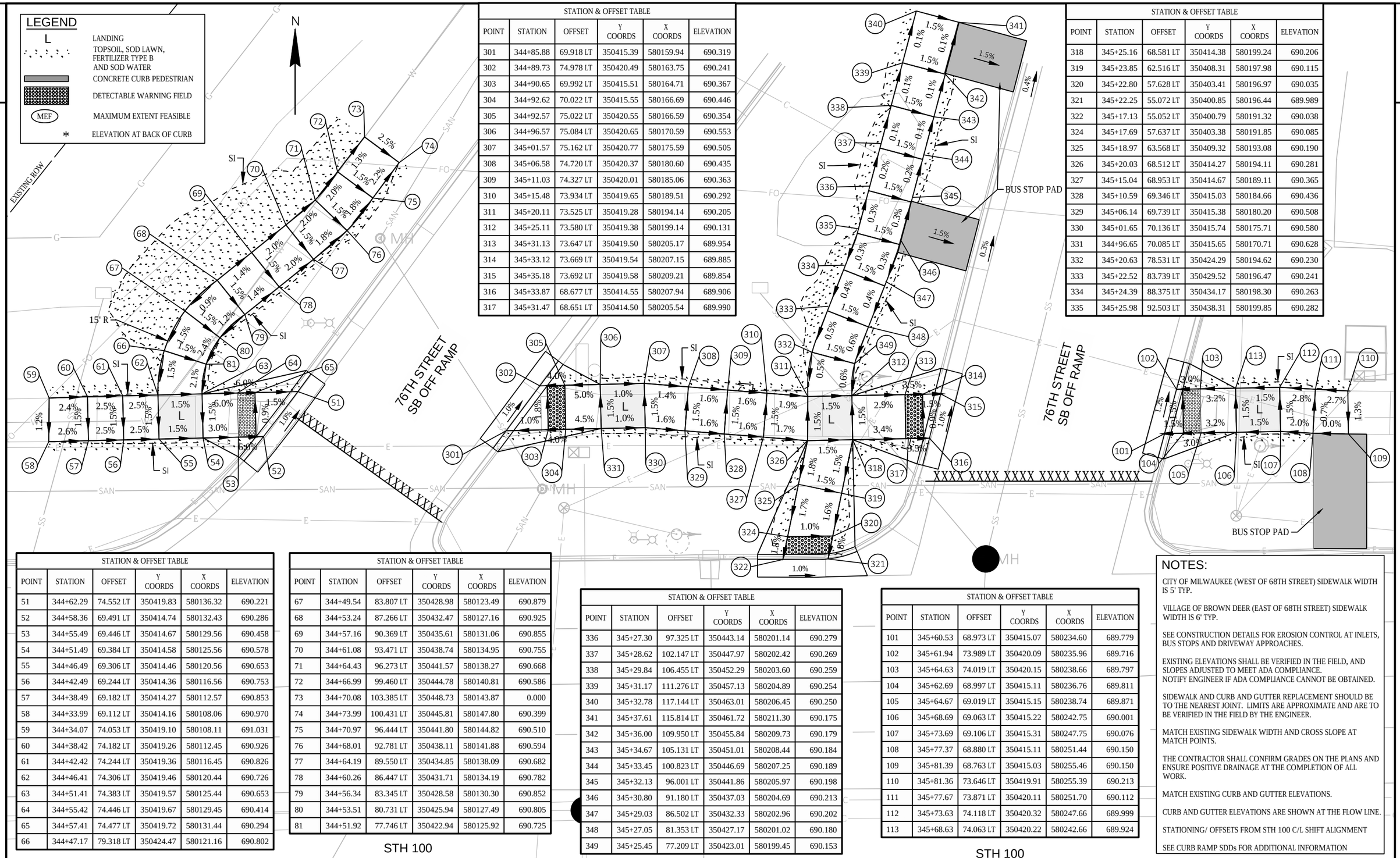
STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
151	337+91.51	71.960 RT	350267.78	579466.77	694.427
152	337+89.32	71.947 RT	350267.77	579464.59	694.383
153	337+90.91	66.956 RT	350272.78	579466.13	694.487
154	337+93.54	66.972 RT	350272.78	579468.76	694.619
155	337+98.47	67.001 RT	350272.79	579473.76	694.690
156	338+03.54	67.032 RT	350272.80	579478.76	694.712
157	338+08.54	67.061 RT	350272.82	579483.76	694.884
158	338+11.84	57.767 RT	350282.14	579486.98	694.475
159	338+12.72	55.297 RT	350284.61	579487.84	694.344
160	338+18.03	55.265 RT	350284.69	579493.16	694.238
161	338+17.22	57.554 RT	350282.39	579492.36	694.274
162	338+16.55	59.439 RT	350280.50	579491.71	694.374
163	338+13.84	67.093 RT	350272.83	579489.06	694.935
164	338+18.54	67.121 RT	350272.84	579493.76	694.952
165	338+23.54	67.151 RT	350272.85	579498.76	694.967
166	338+28.54	67.181 RT	350272.86	579503.76	694.982
167	338+33.54	67.210 RT	350272.87	579508.76	694.997
168	338+39.40	67.233 RT	350272.90	579514.85	695.025
169	338+39.66	72.143 RT	350268.00	579515.05	695.145
170	338+33.51	72.210 RT	350267.87	579508.77	695.065
171	338+28.51	72.181 RT	350267.86	579503.77	695.050

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
172	338+23.51	72.151 RT	350267.85	579498.77	695.035
173	338+18.51	72.121 RT	350267.84	579493.77	695.020
174	338+13.51	72.091 RT	350267.83	579488.77	695.000
175	338+08.51	72.061 RT	350267.82	579483.77	694.950
176	338+03.51	72.032 RT	350267.80	579478.77	694.777
177	337+98.51	72.002 RT	350267.79	579473.77	694.602
178	337+93.51	71.972 RT	350267.78	579468.77	694.527
179	337+96.26	76.887 RT	350262.89	579471.56	694.946
180	337+96.19	81.354 RT	350258.42	579471.53	694.922
181	337+96.12	86.353 RT	350253.42	579471.50	694.846
182	337+96.05	91.353 RT	350248.42	579471.47	694.913
183	337+95.98	95.602 RT	350244.17	579471.44	694.987
184	337+95.99	100.134 RT	350239.64	579471.49	695.278
185	337+88.92	99.781 RT	350239.94	579464.41	695.015
186	337+88.98	95.499 RT	350244.22	579464.44	694.917
187	337+89.05	91.249 RT	350248.47	579464.47	694.843
188	337+89.09	86.279 RT	350253.44	579464.47	694.776
189	337+89.20	81.250 RT	350258.47	579464.53	694.852
190	337+89.29	76.499 RT	350263.22	579464.59	694.876
191	337+89.29	76.499 RT	350274.52	579466.82	694.581

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CURB RAMP DETAILS - SERVITE DRIVE	SHEET 97	E



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
301	344+85.88	69.918 LT	350415.39	580159.94	690.319
302	344+89.73	74.978 LT	350420.49	580163.75	690.241
303	344+90.65	69.992 LT	350415.51	580164.71	690.367
304	344+92.62	70.022 LT	350415.55	580166.69	690.446
305	344+92.57	75.022 LT	350420.55	580166.59	690.354
306	344+96.57	75.084 LT	350420.65	580170.59	690.553
307	345+01.57	75.162 LT	350420.77	580175.59	690.505
308	345+06.58	74.720 LT	350420.37	580180.60	690.435
309	345+11.03	74.327 LT	350420.01	580185.06	690.363
310	345+15.48	73.934 LT	350419.65	580189.51	690.292
311	345+20.11	73.525 LT	350419.28	580194.14	690.205
312	345+25.11	73.580 LT	350419.38	580199.14	690.131
313	345+31.13	73.647 LT	350419.50	580205.17	689.954
314	345+33.12	73.669 LT	350419.54	580207.15	689.885
315	345+35.18	73.692 LT	350419.58	580209.21	689.854
316	345+33.87	68.677 LT	350414.55	580207.94	689.906
317	345+31.47	68.651 LT	350414.50	580205.54	689.990

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
318	345+25.16	68.581 LT	350414.38	580199.24	690.206
319	345+23.85	62.516 LT	350408.31	580197.98	690.115
320	345+22.80	57.628 LT	350403.41	580196.97	690.035
321	345+22.25	55.072 LT	350400.85	580196.44	689.989
322	345+17.13	55.052 LT	350400.79	580191.32	690.038
324	345+17.69	57.637 LT	350403.38	580191.85	690.085
325	345+18.97	63.568 LT	350409.32	580193.08	690.190
326	345+20.03	68.512 LT	350414.27	580194.11	690.281
327	345+15.04	68.953 LT	350414.67	580189.11	690.365
328	345+10.59	69.346 LT	350415.03	580184.66	690.436
329	345+06.14	69.739 LT	350415.38	580180.20	690.508
330	345+01.65	70.136 LT	350415.74	580175.71	690.580
331	344+96.65	70.085 LT	350415.65	580170.71	690.628
332	345+20.63	78.531 LT	350424.29	580194.62	690.230
333	345+22.52	83.739 LT	350429.52	580196.47	690.241
334	345+24.39	88.375 LT	350434.17	580198.30	690.263
335	345+25.98	92.503 LT	350438.31	580199.85	690.282

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
51	344+62.29	74.552 LT	350419.83	580136.32	690.221
52	344+58.36	69.491 LT	350414.74	580132.43	690.286
53	344+55.49	69.446 LT	350414.67	580129.56	690.458
54	344+51.49	69.384 LT	350414.58	580125.56	690.578
55	344+46.49	69.306 LT	350414.46	580120.56	690.653
56	344+42.49	69.244 LT	350414.36	580116.56	690.753
57	344+38.49	69.182 LT	350414.27	580112.57	690.853
58	344+33.99	69.112 LT	350414.16	580108.06	690.970
59	344+34.07	74.053 LT	350419.10	580108.11	691.031
60	344+38.42	74.182 LT	350419.26	580112.45	690.926
61	344+42.42	74.244 LT	350419.36	580116.45	690.826
62	344+46.41	74.306 LT	350419.46	580120.44	690.726
63	344+51.41	74.383 LT	350419.57	580125.44	690.653
64	344+55.42	74.446 LT	350419.67	580129.45	690.414
65	344+57.41	74.477 LT	350419.72	580131.44	690.294
66	344+47.17	79.318 LT	350424.47	580121.16	690.802

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
67	344+49.54	83.807 LT	350428.98	580123.49	690.879
68	344+53.24	87.266 LT	350432.47	580127.16	690.925
69	344+57.16	90.369 LT	350435.61	580131.06	690.855
70	344+61.08	93.471 LT	350438.74	580134.95	690.755
71	344+64.43	96.273 LT	350441.57	580138.27	690.668
72	344+66.99	99.460 LT	350444.78	580140.81	690.586
73	344+70.08	103.385 LT	350448.73	580143.87	0.000
74	344+73.99	100.431 LT	350445.81	580147.80	690.399
75	344+70.97	96.444 LT	350441.80	580144.82	690.510
76	344+68.01	92.781 LT	350438.11	580141.88	690.594
77	344+64.19	89.550 LT	350434.85	580138.09	690.682
78	344+60.26	86.447 LT	350431.71	580134.19	690.782
79	344+56.34	83.345 LT	350428.58	580130.30	690.852
80	344+53.51	80.731 LT	350425.94	580127.49	690.805
81	344+51.92	77.746 LT	350422.94	580125.92	690.725

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
336	345+27.30	97.325 LT	350443.14	580201.14	690.279
337	345+28.62	102.147 LT	350447.97	580202.42	690.269
338	345+29.84	106.455 LT	350452.29	580203.60	690.259
339	345+31.17	111.276 LT	350457.13	580204.89	690.254
340	345+32.78	117.144 LT	350463.01	580206.45	690.250
341	345+37.61	115.814 LT	350461.72	580211.30	690.175
342	345+36.00	109.950 LT	350455.84	580209.73	690.179
343	345+34.67	105.131 LT	350451.01	580208.44	690.184
344	345+33.45	100.823 LT	350446.69	580207.25	690.189
345	345+32.13	96.001 LT	350441.86	580205.97	690.198
346	345+30.80	91.180 LT	350437.03	580204.69	690.213
347	345+29.03	86.502 LT	350432.33	580202.96	690.202
348	345+27.05	81.353 LT	350427.17	580201.02	690.180
349	345+25.45	77.209 LT	350423.01	580199.45	690.153

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
101	345+60.53	68.973 LT	350415.07	580234.60	689.779
102	345+61.94	73.989 LT	350420.09	580235.96	689.716
103	345+64.63	74.019 LT	350420.15	580238.66	689.797
104	345+62.69	68.997 LT	350415.11	580236.76	689.811
105	345+64.67	69.019 LT	350415.15	580238.74	689.871
106	345+68.69	69.063 LT	350415.22	580242.75	690.001
107	345+73.69	69.106 LT	350415.31	580247.75	690.076
108	345+77.37	68.880 LT	350415.11	580251.44	690.150
109	345+81.39	68.763 LT	350415.03	580255.46	690.150
110	345+81.36	73.646 LT	350419.91	580255.39	690.213
111	345+77.67	73.871 LT	350420.11	580251.70	690.112
112	345+73.63	74.118 LT	350420.32	580247.66	689.999
113	345+68.63	74.063 LT	350420.22	580242.66	689.924

NOTES:

CITY OF MILWAUKEE (WEST OF 68TH STREET) SIDEWALK WIDTH IS 5' TYP.

VILLAGE OF BROWN DEER (EAST OF 68TH STREET) SIDEWALK WIDTH IS 6' TYP.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD, AND SLOPES ADJUSTED TO MEET ADA COMPLIANCE. NOTIFY ENGINEER IF ADA COMPLIANCE CANNOT BE OBTAINED.

SIDEWALK AND CURB AND GUTTER REPLACEMENT SHOULD BE TO THE NEAREST JOINT. LIMITS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

MATCH EXISTING SIDEWALK WIDTH AND CROSS SLOPE AT MATCH POINTS.

THE CONTRACTOR SHALL CONFIRM GRADES ON THE PLANS AND ENSURE POSITIVE DRAINAGE AT THE COMPLETION OF ALL WORK.

MATCH EXISTING CURB AND GUTTER ELEVATIONS.

CURB AND GUTTER ELEVATIONS ARE SHOWN AT THE FLOW LINE.

STATIONING/ OFFSETS FROM STH 100 C/L SHIFT ALIGNMENT

SEE CURB RAMP SDDs FOR ADDITIONAL INFORMATION

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CURB RAMP DETAILS - 76TH STREET	SHEET 98	E

STH 100

N

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
351	343+89.09	77.079 RT	350267.60	580064.37	690.994
352	343+84.80	74.510 RT	350270.13	580060.06	690.957
353	343+86.28	72.165 RT	350272.49	580061.52	691.040
354	343+88.54	68.607 RT	350276.07	580063.75	691.167
355	343+95.46	64.892 RT	350279.84	580070.65	691.249
356	344+00.46	64.999 RT	350279.78	580075.65	691.324
357	344+06.45	65.126 RT	350279.70	580081.63	691.384
358	344+06.48	70.014 RT	350274.81	580081.70	691.485
359	344+00.36	69.998 RT	350274.78	580075.58	691.375
360	343+95.36	69.891 RT	350274.84	580070.58	691.300
361	343+92.76	71.284 RT	350273.43	580068.00	691.216
362	343+90.50	74.832 RT	350269.86	580065.77	691.074

76TH STREET SB ON RAMP

XXXX XXXX XXXX XXXX

8' R

SI

MEF

L

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
2	343+73.12	92.926 RT	350251.62	580048.53	690.292
3	343+77.40	95.503 RT	350249.08	580052.84	690.432
4	343+75.91	97.855 RT	350246.72	580051.37	690.571
5	343+71.87	104.231 RT	350240.31	580047.38	690.911
6	343+69.19	108.454 RT	350236.06	580044.74	690.985
7	343+64.96	105.791 RT	350238.69	580040.48	690.915
8	343+61.42	103.933 RT	350240.52	580036.93	690.995
9	343+57.88	102.075 RT	350242.35	580033.37	691.075
10	343+54.17	99.937 RT	350244.46	580029.64	691.164
11	343+56.36	95.633 RT	350248.78	580031.80	691.028
12	343+60.20	97.647 RT	350246.79	580035.65	690.999
13	343+63.74	99.505 RT	350244.97	580039.21	690.919
14	343+67.65	101.554 RT	350242.95	580043.13	690.840
15	343+71.69	95.170 RT	350249.37	580047.13	690.425

STH 100

N

LEGEND

- L — LANDING
- TOPSOIL, SOD LAWN, FERTILIZER TYPE B AND SOD WATER
- CONCRETE CURB PEDESTRIAN
- DETECTABLE WARNING FIELD
- MEF — MAXIMUM EXTENT FEASIBLE
- * — ELEVATION AT BACK OF CURB

76TH STREET SB ON RAMP

XXXX XXXX XXXX XXXX XXXX XXXX

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
376	344+96.90	55.140 RT	350290.43	580172.00	690.310
377	345+01.95	55.173 RT	350290.44	580177.04	690.293
378	345+01.49	58.400 RT	350287.21	580176.62	690.440
379	345+00.69	64.069 RT	350281.53	580175.86	690.682
380	345+08.52	64.053 RT	350281.61	580183.69	690.525
381	345+11.56	64.047 RT	350281.65	580186.74	690.464
382	345+11.20	69.047 RT	350276.64	580186.41	690.530
383	345+08.53	69.053 RT	350276.62	580183.74	690.583
384	345+00.70	69.069 RT	350276.53	580175.91	690.740
385	344+95.70	69.086 RT	350276.48	580170.91	690.815
386	344+90.70	69.414 RT	350276.11	580165.92	690.870
387	344+85.71	69.741 RT	350275.74	580160.93	690.920
388	344+79.20	70.129 RT	350275.30	580154.42	691.050
389	344+79.41	65.144 RT	350280.28	580154.59	690.921
390	344+85.39	64.752 RT	350280.72	580160.56	690.858
391	344+90.37	64.425 RT	350281.09	580165.55	690.808
392	344+95.64	64.079 RT	350281.48	580170.81	690.755
393	344+96.54	57.691 RT	350287.88	580171.66	690.426

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
151	345+46.66	68.974 RT	350277.01	580221.87	690.419
152	345+44.68	68.978 RT	350276.99	580219.90	690.380
153	345+39.99	68.988 RT	350276.94	580215.20	690.333
154	345+43.74	63.980 RT	350281.98	580218.91	690.284
155	345+46.67	63.974 RT	350282.01	580221.84	690.343
156	345+50.67	63.966 RT	350282.05	580225.84	690.423
157	345+55.67	63.956 RT	350282.10	580230.84	690.473
158	345+60.67	64.323 RT	350281.78	580235.85	690.423
159	345+65.66	64.689 RT	350281.45	580240.84	690.372
160	345+69.75	64.989 RT	350281.19	580244.93	690.349
161	345+69.58	69.885 RT	350276.29	580244.80	690.537
162	345+65.29	69.675 RT	350276.46	580240.51	690.449
163	345+60.31	69.309 RT	350276.79	580235.52	690.499
164	345+55.68	68.970 RT	350277.09	580230.89	690.550
165	345+50.68	68.966 RT	350277.05	580225.89	690.500

NOTES:

CITY OF MILWAUKEE (WEST OF 68TH STREET) SIDEWALK WIDTH IS 5' TYP.

VILLAGE OF BROWN DEER (EAST OF 68TH STREET) SIDEWALK WIDTH IS 6' TYP.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD, AND SLOPES ADJUSTED TO MEET ADA COMPLIANCE. NOTIFY ENGINEER IF ADA COMPLIANCE CANNOT BE OBTAINED.

SIDEWALK AND CURB AND GUTTER REPLACEMENT SHOULD BE TO THE NEAREST JOINT. LIMITS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

MATCH EXISTING SIDEWALK WIDTH AND CROSS SLOPE AT MATCH POINTS.

THE CONTRACTOR SHALL CONFIRM GRADES ON THE PLANS AND ENSURE POSITIVE DRAINAGE AT THE COMPLETION OF ALL WORK.

MATCH EXISTING CURB AND GUTTER ELEVATIONS.

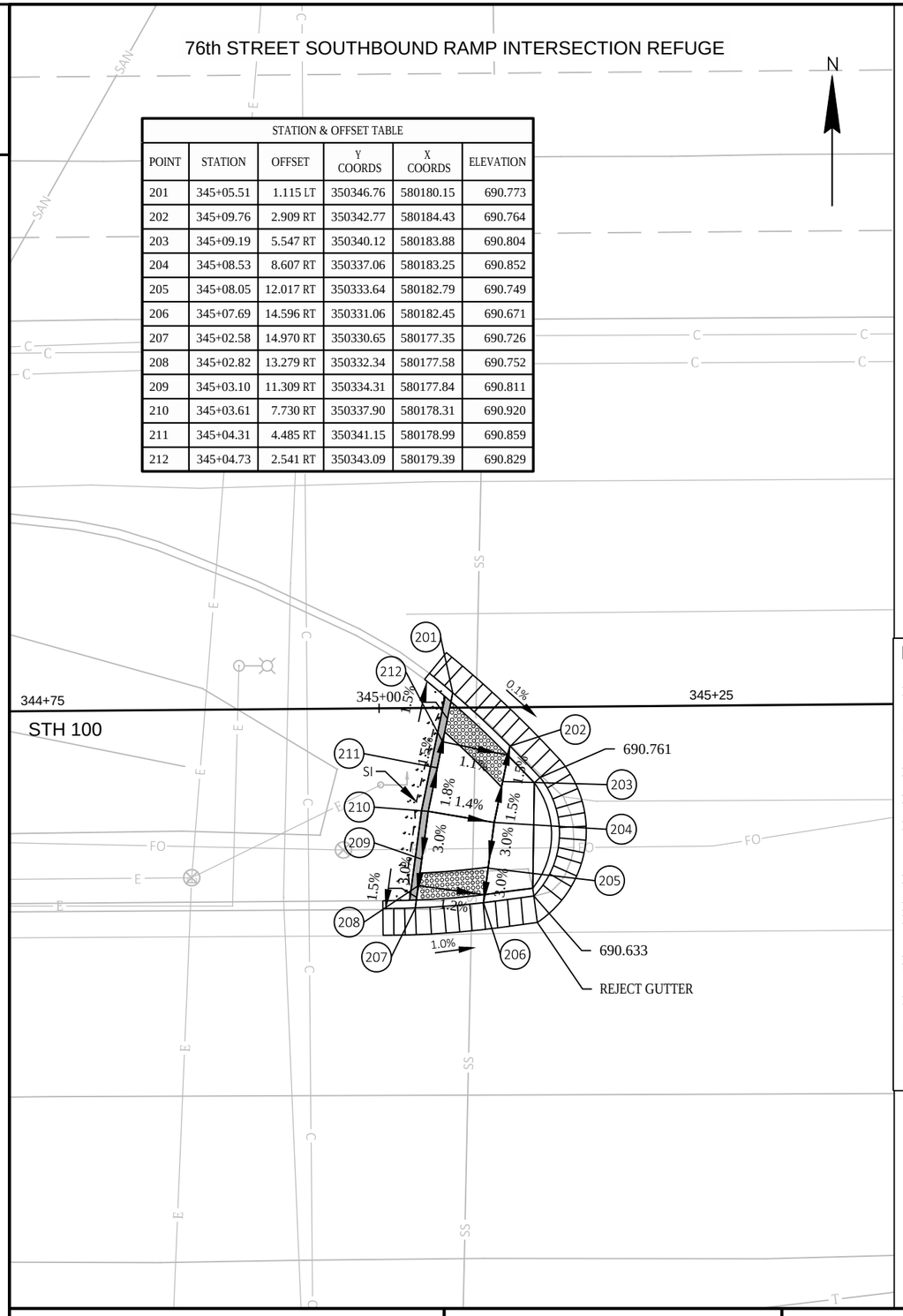
CURB AND GUTTER ELEVATIONS ARE SHOWN AT THE FLOW LINE.

STATIONING/ OFFSETS FROM STH 100 C/L SHIFT ALIGNMENT

SEE CURB RAMP SDDs FOR ADDITIONAL INFORMATION

76th STREET SOUTHBOUND RAMP INTERSECTION REFUGE

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
201	345+05.51	1.115 LT	350346.76	580180.15	690.773
202	345+09.76	2.909 RT	350342.77	580184.43	690.764
203	345+09.19	5.547 RT	350340.12	580183.88	690.804
204	345+08.53	8.607 RT	350337.06	580183.25	690.852
205	345+08.05	12.017 RT	350333.64	580182.79	690.749
206	345+07.69	14.596 RT	350331.06	580182.45	690.671
207	345+02.58	14.970 RT	350330.65	580177.35	690.726
208	345+02.82	13.279 RT	350332.34	580177.58	690.752
209	345+03.10	11.309 RT	350334.31	580177.84	690.811
210	345+03.61	7.730 RT	350337.90	580178.31	690.920
211	345+04.31	4.485 RT	350341.15	580178.99	690.859
212	345+04.73	2.541 RT	350343.09	580179.39	690.829



LEGEND

L	LANDING
	TOPSOIL, SOD LAWN, FERTILIZER TYPE B AND SOD WATER
	CONCRETE CURB PEDESTRIAN
	DETECTABLE WARNING FIELD
MEF	MAXIMUM EXTENT FEASIBLE
*	ELEVATION AT BACK OF CURB

NOTES:

CITY OF MILWAUKEE (WEST OF 68TH STREET) SIDEWALK WIDTH IS 5' TYP.

VILLAGE OF BROWN DEER (EAST OF 68TH STREET) SIDEWALK WIDTH IS 6' TYP.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD, AND SLOPES ADJUSTED TO MEET ADA COMPLIANCE. NOTIFY ENGINEER IF ADA COMPLIANCE CANNOT BE OBTAINED.

SIDEWALK AND CURB AND GUTTER REPLACEMENT SHOULD BE TO THE NEAREST JOINT. LIMITS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

MATCH EXISTING SIDEWALK WIDTH AND CROSS SLOPE AT MATCH POINTS.

THE CONTRACTOR SHALL CONFIRM GRADES ON THE PLANS AND ENSURE POSITIVE DRAINAGE AT THE COMPLETION OF ALL WORK.

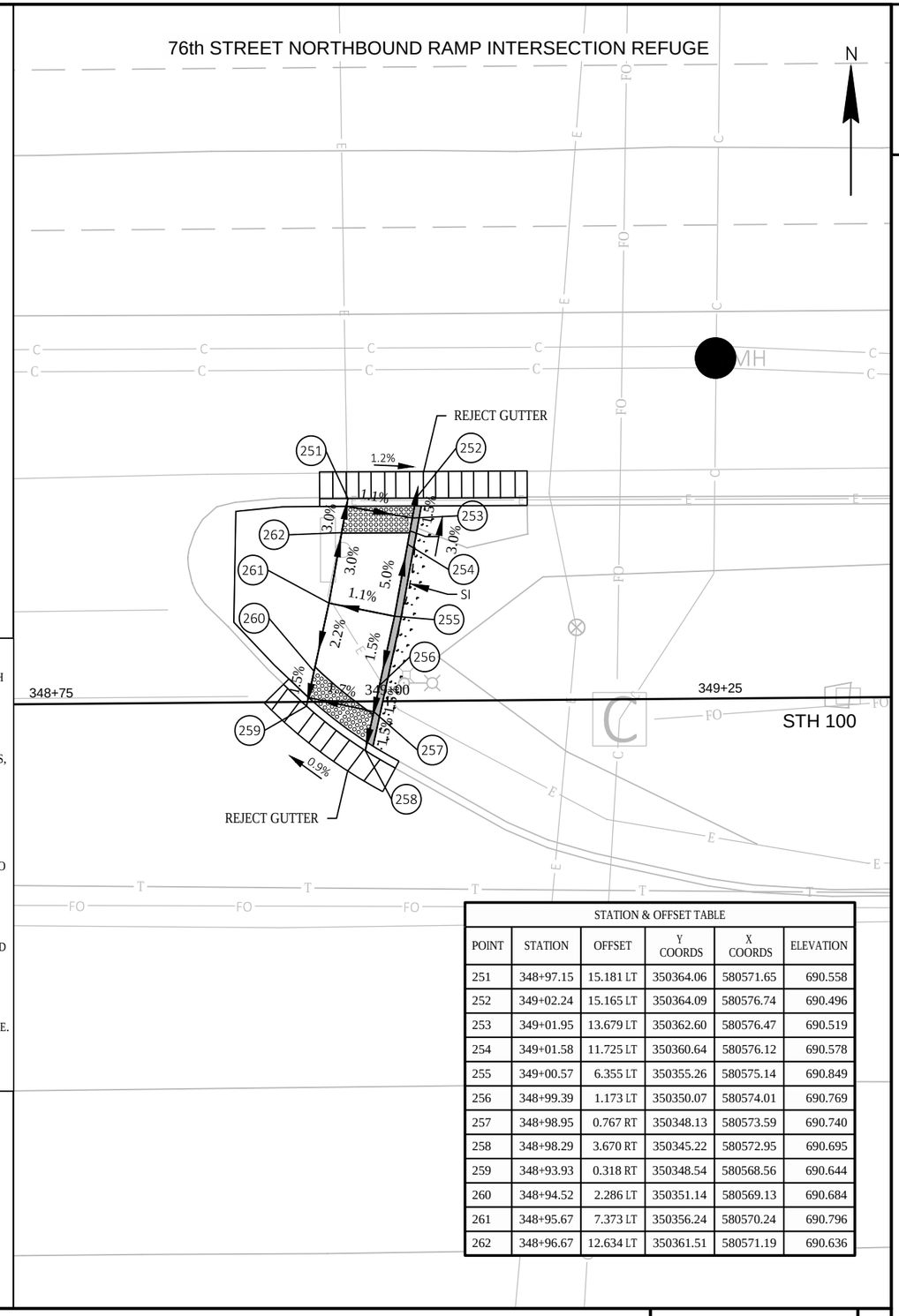
MATCH EXISTING CURB AND GUTTER ELEVATIONS.

CURB AND GUTTER ELEVATIONS ARE SHOWN AT THE FLOW LINE.

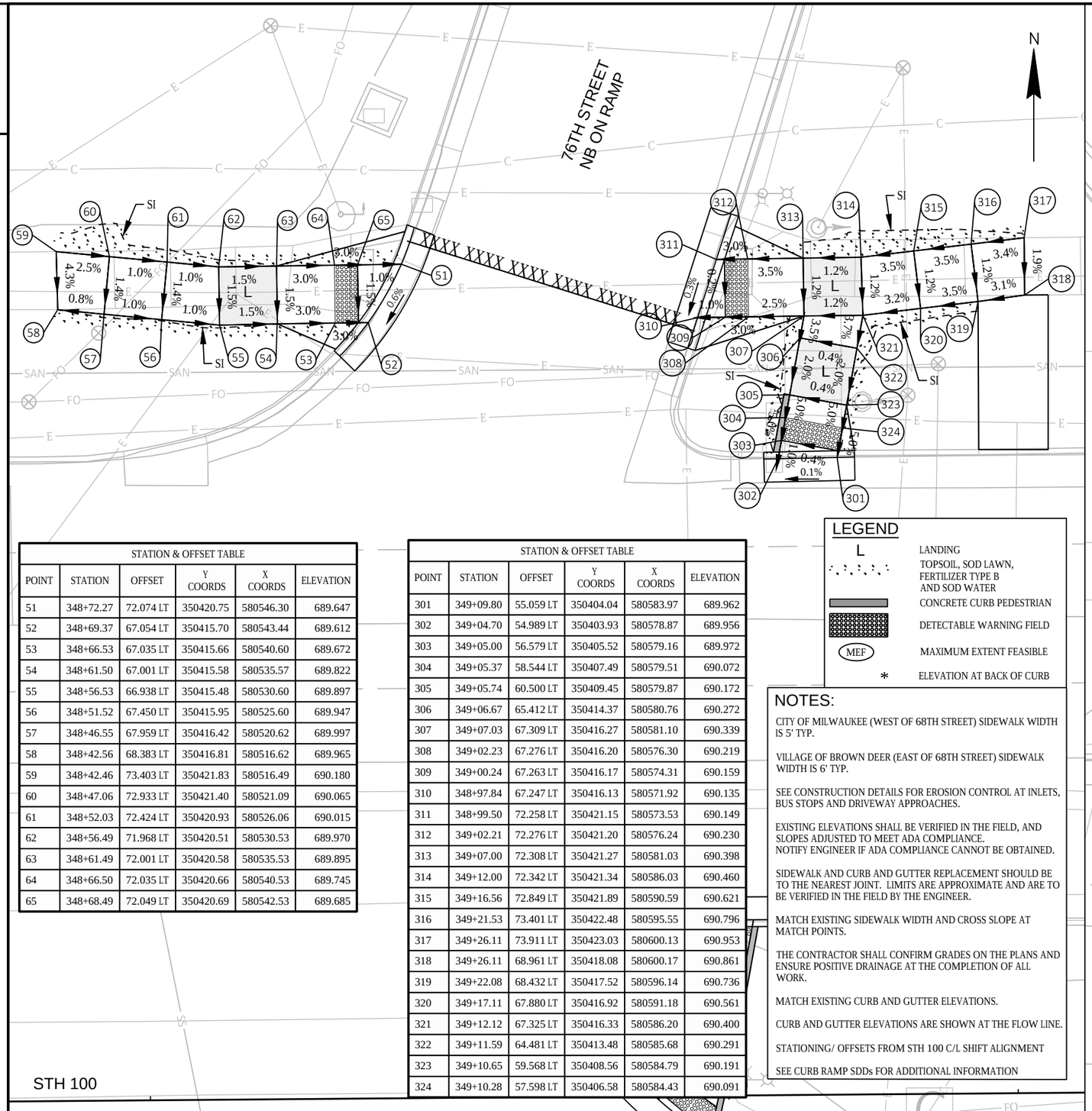
STATIONING/ OFFSETS FROM STH 100 C/L SHIFT ALIGNMENT

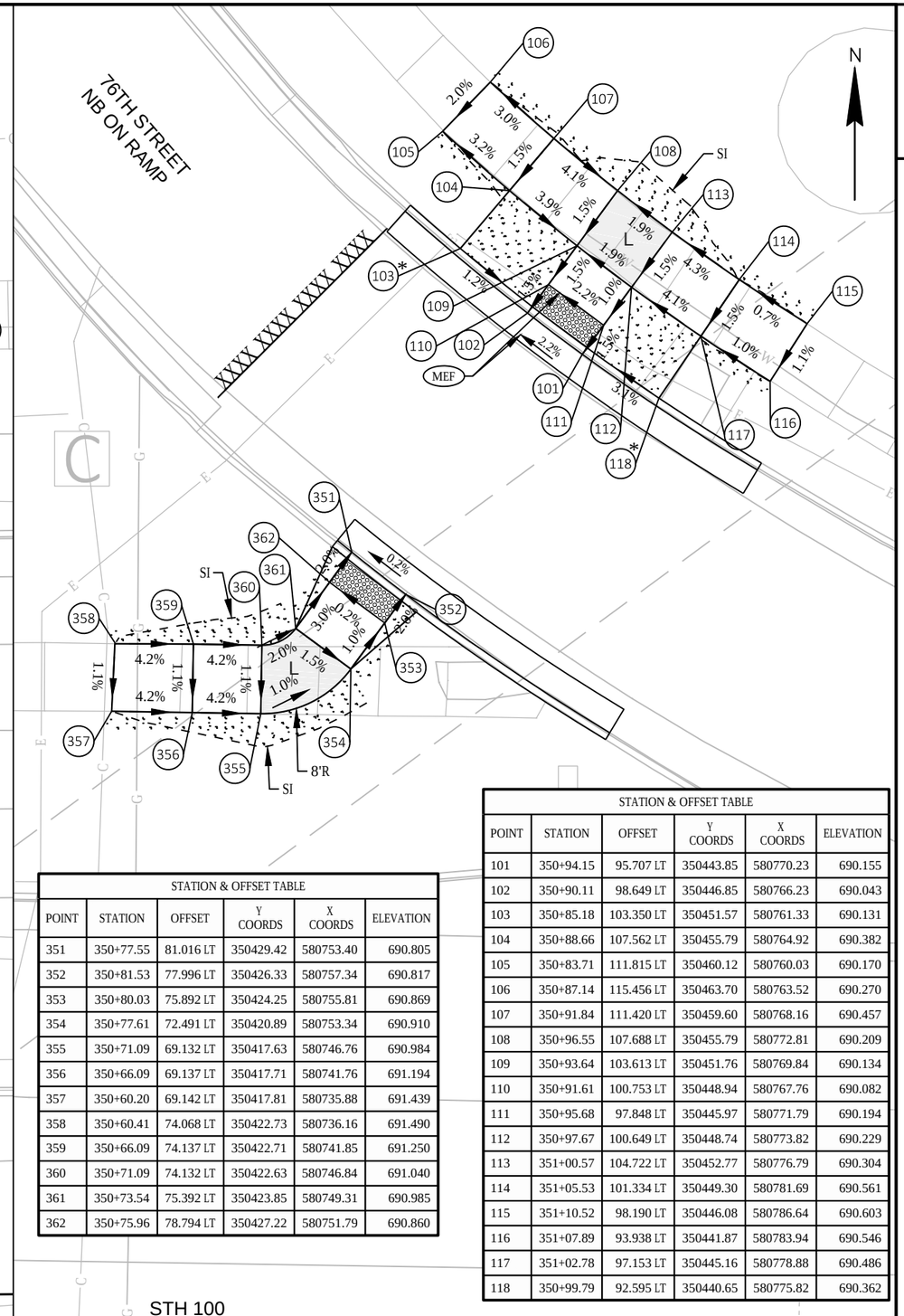
SEE CURB RAMP SDDs FOR ADDITIONAL INFORMATION

76th STREET NORTHBOUND RAMP INTERSECTION REFUGE



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
251	348+97.15	15.181 LT	350364.06	580571.65	690.558
252	349+02.24	15.165 LT	350364.09	580576.74	690.496
253	349+01.95	13.679 LT	350362.60	580576.47	690.519
254	349+01.58	11.725 LT	350360.64	580576.12	690.578
255	349+00.57	6.355 LT	350355.26	580575.14	690.849
256	348+99.39	1.173 LT	350350.07	580574.01	690.769
257	348+98.95	0.767 RT	350348.13	580573.59	690.740
258	348+98.29	3.670 RT	350345.22	580572.95	690.695
259	348+93.93	0.318 RT	350348.54	580568.56	690.644
260	348+94.52	2.286 LT	350351.14	580569.13	690.684
261	348+95.67	7.373 LT	350356.24	580570.24	690.796
262	348+96.67	12.634 LT	350361.51	580571.19	690.636





STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
51	348+72.27	72.074 LT	350420.75	580546.30	689.647
52	348+69.37	67.054 LT	350415.70	580543.44	689.612
53	348+66.53	67.035 LT	350415.66	580540.60	689.672
54	348+61.50	67.001 LT	350415.58	580535.57	689.822
55	348+56.53	66.938 LT	350415.48	580530.60	689.897
56	348+51.52	67.450 LT	350415.95	580525.60	689.947
57	348+46.55	67.959 LT	350416.42	580520.62	689.997
58	348+42.56	68.383 LT	350416.81	580516.62	689.965
59	348+42.46	73.403 LT	350421.83	580516.49	690.180
60	348+47.06	72.933 LT	350421.40	580521.09	690.065
61	348+52.03	72.424 LT	350420.93	580526.06	690.015
62	348+56.49	71.968 LT	350420.51	580530.53	689.970
63	348+61.49	72.001 LT	350420.58	580535.53	689.895
64	348+66.50	72.035 LT	350420.66	580540.53	689.745
65	348+68.49	72.049 LT	350420.69	580542.53	689.685

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
301	349+09.80	55.059 LT	350404.04	580583.97	689.962
302	349+04.70	54.989 LT	350403.93	580578.87	689.956
303	349+05.00	56.579 LT	350405.52	580579.16	689.972
304	349+05.37	58.544 LT	350407.49	580579.51	690.072
305	349+05.74	60.500 LT	350409.45	580579.87	690.172
306	349+06.67	65.412 LT	350414.37	580580.76	690.272
307	349+07.03	67.309 LT	350416.27	580581.10	690.339
308	349+02.23	67.276 LT	350416.20	580576.30	690.219
309	349+00.24	67.263 LT	350416.17	580574.31	690.159
310	348+97.84	67.247 LT	350416.13	580571.92	690.135
311	348+99.50	72.258 LT	350421.15	580573.53	690.149
312	349+02.21	72.276 LT	350421.20	580576.24	690.230
313	349+07.00	72.308 LT	350421.27	580581.03	690.398
314	349+12.00	72.342 LT	350421.34	580586.03	690.460
315	349+16.56	72.849 LT	350421.89	580590.59	690.621
316	349+21.53	73.401 LT	350422.48	580595.55	690.796
317	349+26.11	73.911 LT	350423.03	580600.13	690.953
318	349+26.11	68.961 LT	350418.08	580600.17	690.861
319	349+22.08	68.432 LT	350417.52	580596.14	690.736
320	349+17.11	67.880 LT	350416.92	580591.18	690.561
321	349+12.12	67.325 LT	350416.33	580586.20	690.400
322	349+11.59	64.481 LT	350413.48	580585.68	690.291
323	349+10.65	59.568 LT	350408.56	580584.79	690.191
324	349+10.28	57.598 LT	350406.58	580584.43	690.091

LEGEND

L	LANDING
	TOPSOIL, SOD LAWN, FERTILIZER TYPE B AND SOD WATER
	CONCRETE CURB PEDESTRIAN
	DETECTABLE WARNING FIELD
MEF	MAXIMUM EXTENT FEASIBLE
*	ELEVATION AT BACK OF CURB

NOTES:

CITY OF MILWAUKEE (WEST OF 68TH STREET) SIDEWALK WIDTH IS 5' TYP.

VILLAGE OF BROWN DEER (EAST OF 68TH STREET) SIDEWALK WIDTH IS 6' TYP.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD, AND SLOPES ADJUSTED TO MEET ADA COMPLIANCE. NOTIFY ENGINEER IF ADA COMPLIANCE CANNOT BE OBTAINED.

SIDEWALK AND CURB AND GUTTER REPLACEMENT SHOULD BE TO THE NEAREST JOINT. LIMITS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

MATCH EXISTING SIDEWALK WIDTH AND CROSS SLOPE AT MATCH POINTS.

THE CONTRACTOR SHALL CONFIRM GRADES ON THE PLANS AND ENSURE POSITIVE DRAINAGE AT THE COMPLETION OF ALL WORK.

MATCH EXISTING CURB AND GUTTER ELEVATIONS.

CURB AND GUTTER ELEVATIONS ARE SHOWN AT THE FLOW LINE.

STATIONING/ OFFSETS FROM STH 100 C/L SHIFT ALIGNMENT

SEE CURB RAMP SDDs FOR ADDITIONAL INFORMATION

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
351	350+77.55	81.016 LT	350429.42	580753.40	690.805
352	350+81.53	77.996 LT	350426.33	580757.34	690.817
353	350+80.03	75.892 LT	350424.25	580755.81	690.869
354	350+77.61	72.491 LT	350420.89	580753.34	690.910
355	350+71.09	69.132 LT	350417.63	580746.76	690.984
356	350+66.09	69.137 LT	350417.71	580741.76	691.194
357	350+60.20	69.142 LT	350417.81	580735.88	691.439
358	350+60.41	74.068 LT	350422.73	580736.16	691.490
359	350+66.09	74.137 LT	350422.71	580741.85	691.250
360	350+71.09	74.132 LT	350422.63	580746.84	691.040
361	350+73.54	75.392 LT	350423.85	580749.31	690.985
362	350+75.96	78.794 LT	350427.22	580751.79	690.860

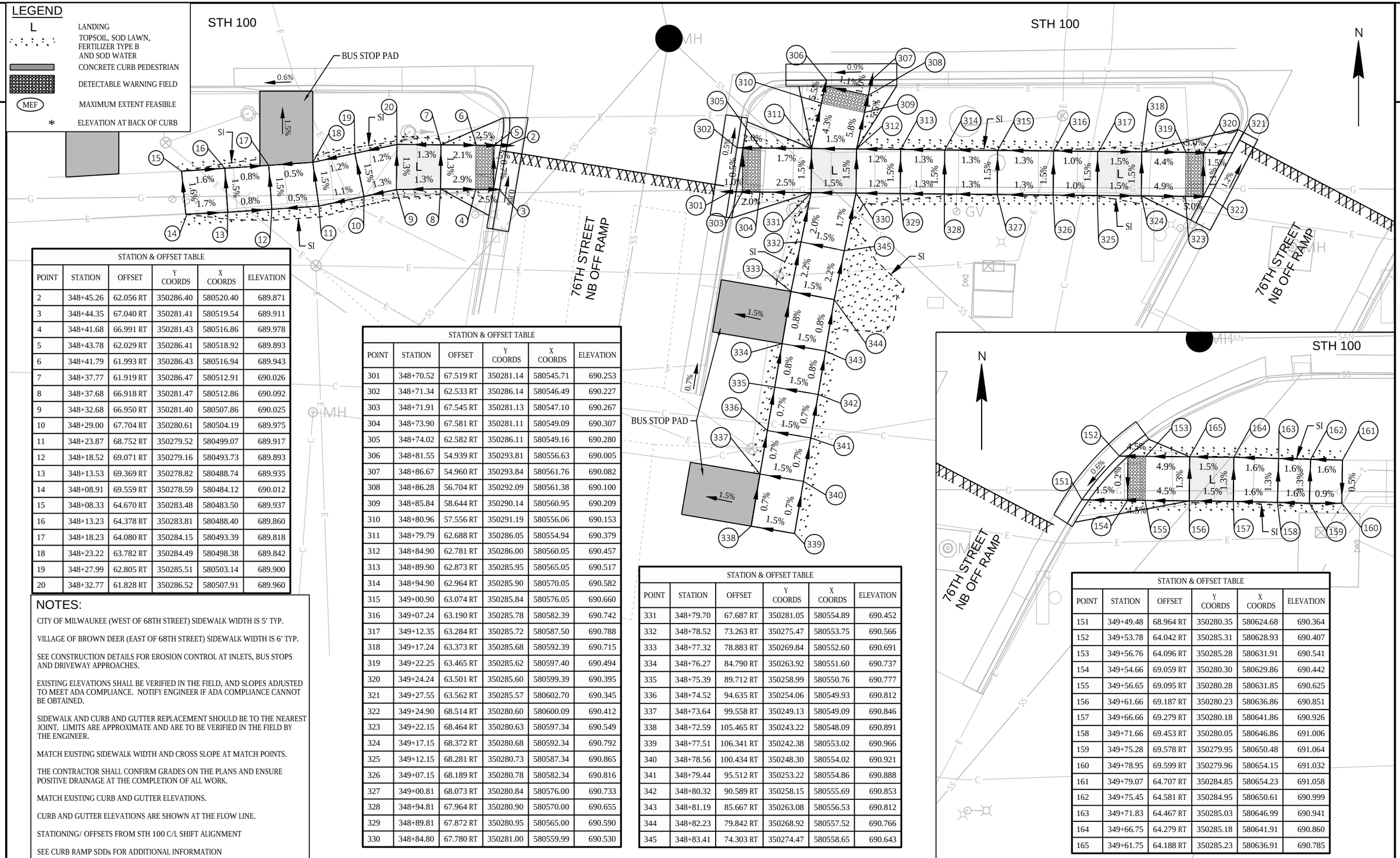
STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
101	350+94.15	95.707 LT	350443.85	580770.23	690.155
102	350+90.11	98.649 LT	350446.85	580766.23	690.043
103	350+85.18	103.350 LT	350451.57	580761.33	690.131
104	350+88.66	107.562 LT	350455.79	580764.92	690.382
105	350+83.71	111.815 LT	350460.12	580760.03	690.170
106	350+87.14	115.456 LT	350463.70	580763.52	690.270
107	350+91.84	111.420 LT	350459.60	580768.16	690.457
108	350+96.55	107.688 LT	350455.79	580772.81	690.209
109	350+93.64	103.613 LT	350451.76	580769.84	690.134
110	350+91.61	100.753 LT	350448.94	580767.76	690.082
111	350+95.68	97.848 LT	350445.97	580771.79	690.194
112	350+97.67	100.649 LT	350448.74	580773.82	690.229
113	351+00.57	104.722 LT	350452.77	580776.79	690.304
114	351+05.53	101.334 LT	350449.30	580781.69	690.561
115	351+10.52	98.190 LT	350446.08	580786.64	690.603
116	351+07.89	93.938 LT	350441.87	580783.94	690.546
117	351+02.78	97.153 LT	350445.16	580778.88	690.486
118	350+99.79	92.595 LT	350440.65	580775.82	690.362

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CURB RAMP DETAILS - 76TH STREET	SHEET 101	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021311_CD_CURB RAMPS-76TH.DWG
LAYOUT NAME - 01
PLOT DATE : 10/20/2020 1:53 PM
PLOT BY : SCHMIDT, JUDENE M
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

LEGEND

- L — LANDING
- TOPSOIL, SOD LAWN, FERTILIZER TYPE B AND SOD WATER
- CONCRETE CURB PEDESTRIAN
- DETECTABLE WARNING FIELD
- MEF — MAXIMUM EXTENT FEASIBLE
- * — ELEVATION AT BACK OF CURB



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
2	348+45.26	62.056 RT	350286.40	580520.40	689.871
3	348+44.35	67.040 RT	350281.41	580519.54	689.911
4	348+41.68	66.991 RT	350281.43	580516.86	689.978
5	348+43.78	62.029 RT	350286.41	580518.92	689.893
6	348+41.79	61.993 RT	350286.43	580516.94	689.943
7	348+37.77	61.919 RT	350286.47	580512.91	690.026
8	348+37.68	66.918 RT	350281.47	580512.86	690.092
9	348+32.68	66.950 RT	350281.40	580507.86	690.025
10	348+29.00	67.704 RT	350280.61	580504.19	689.975
11	348+23.87	68.752 RT	350279.52	580499.07	689.917
12	348+18.52	69.071 RT	350279.16	580493.73	689.893
13	348+13.53	69.369 RT	350278.82	580488.74	689.935
14	348+08.91	69.559 RT	350278.59	580484.12	690.012
15	348+08.33	64.670 RT	350283.48	580483.50	689.937
16	348+13.23	64.378 RT	350283.81	580488.40	689.860
17	348+18.23	64.080 RT	350284.15	580493.39	689.818
18	348+23.22	63.782 RT	350284.49	580498.38	689.842
19	348+27.99	62.805 RT	350285.51	580503.14	689.900
20	348+32.77	61.828 RT	350286.52	580507.91	689.960

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
301	348+70.52	67.519 RT	350281.14	580545.71	690.253
302	348+71.34	62.533 RT	350286.14	580546.49	690.227
303	348+71.91	67.545 RT	350281.13	580547.10	690.267
304	348+73.90	67.581 RT	350281.11	580549.09	690.307
305	348+74.02	62.582 RT	350286.11	580549.16	690.280
306	348+81.55	54.939 RT	350293.81	580556.63	690.005
307	348+86.67	54.960 RT	350293.84	580561.76	690.082
308	348+86.28	56.704 RT	350292.09	580561.38	690.100
309	348+85.84	58.644 RT	350290.14	580560.95	690.209
310	348+80.96	57.556 RT	350291.19	580556.06	690.153
311	348+79.79	62.688 RT	350286.05	580554.94	690.379
312	348+84.90	62.781 RT	350286.00	580560.05	690.457
313	348+89.90	62.873 RT	350285.95	580565.05	690.517
314	348+94.90	62.964 RT	350285.90	580570.05	690.582
315	349+00.90	63.074 RT	350285.84	580576.05	690.660
316	349+07.24	63.190 RT	350285.78	580582.39	690.742
317	349+12.35	63.284 RT	350285.72	580587.50	690.788
318	349+17.24	63.373 RT	350285.68	580592.39	690.715
319	349+22.25	63.465 RT	350285.62	580597.40	690.494
320	349+24.24	63.501 RT	350285.60	580599.39	690.395
321	349+27.55	63.562 RT	350285.57	580602.70	690.345
322	349+24.90	68.514 RT	350280.60	580600.09	690.412
323	349+22.15	68.464 RT	350280.63	580597.34	690.549
324	349+17.15	68.372 RT	350280.68	580592.34	690.792
325	349+12.15	68.281 RT	350280.73	580587.34	690.865
326	349+07.15	68.189 RT	350280.78	580582.34	690.816
327	349+00.81	68.073 RT	350280.84	580576.00	690.733
328	348+94.81	67.964 RT	350280.90	580570.00	690.655
329	348+89.81	67.872 RT	350280.95	580565.00	690.590
330	348+84.80	67.780 RT	350281.00	580559.99	690.530

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
331	348+79.70	67.687 RT	350281.05	580554.89	690.452
332	348+78.52	73.263 RT	350275.47	580553.75	690.566
333	348+77.32	78.883 RT	350269.84	580552.60	690.691
334	348+76.27	84.790 RT	350263.92	580551.60	690.737
335	348+75.39	89.712 RT	350258.99	580550.76	690.777
336	348+74.52	94.635 RT	350254.06	580549.93	690.812
337	348+73.64	99.558 RT	350249.13	580549.09	690.846
338	348+72.59	105.465 RT	350243.22	580548.09	690.891
339	348+77.51	106.341 RT	350242.38	580553.02	690.966
340	348+78.56	100.434 RT	350248.30	580554.02	690.921
341	348+79.44	95.512 RT	350253.22	580554.86	690.888
342	348+80.32	90.589 RT	350258.15	580555.69	690.853
343	348+81.19	85.667 RT	350263.08	580556.53	690.812
344	348+82.23	79.842 RT	350268.92	580557.52	690.766
345	348+83.41	74.303 RT	350274.47	580558.65	690.643

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
151	349+49.48	68.964 RT	350280.35	580624.68	690.364
152	349+53.78	64.042 RT	350285.31	580628.93	690.407
153	349+56.76	64.096 RT	350285.28	580631.91	690.541
154	349+54.66	69.059 RT	350280.30	580629.86	690.442
155	349+56.65	69.095 RT	350280.28	580631.85	690.625
156	349+61.66	69.187 RT	350280.23	580636.86	690.851
157	349+66.66	69.279 RT	350280.18	580641.86	690.926
158	349+71.66	69.453 RT	350280.05	580646.86	691.006
159	349+75.28	69.578 RT	350279.95	580650.48	691.064
160	349+78.95	69.599 RT	350279.96	580654.15	691.032
161	349+79.07	64.707 RT	350284.85	580654.23	691.058
162	349+75.45	64.581 RT	350284.95	580650.61	690.999
163	349+71.83	64.467 RT	350285.03	580646.99	690.941
164	349+66.75	64.279 RT	350285.18	580641.91	690.860
165	349+61.75	64.188 RT	350285.23	580636.91	690.785

NOTES:

CITY OF MILWAUKEE (WEST OF 68TH STREET) SIDEWALK WIDTH IS 5' TYP.

VILLAGE OF BROWN DEER (EAST OF 68TH STREET) SIDEWALK WIDTH IS 6' TYP.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD, AND SLOPES ADJUSTED TO MEET ADA COMPLIANCE. NOTIFY ENGINEER IF ADA COMPLIANCE CANNOT BE OBTAINED.

SIDEWALK AND CURB AND GUTTER REPLACEMENT SHOULD BE TO THE NEAREST JOINT. LIMITS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

MATCH EXISTING SIDEWALK WIDTH AND CROSS SLOPE AT MATCH POINTS.

THE CONTRACTOR SHALL CONFIRM GRADES ON THE PLANS AND ENSURE POSITIVE DRAINAGE AT THE COMPLETION OF ALL WORK.

MATCH EXISTING CURB AND GUTTER ELEVATIONS.

CURB AND GUTTER ELEVATIONS ARE SHOWN AT THE FLOW LINE.

STATIONING/ OFFSETS FROM STH 100 C/L SHIFT ALIGNMENT

SEE CURB RAMP SDDs FOR ADDITIONAL INFORMATION

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CURB RAMP DETAILS - 76TH STREET	SHEET 102	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021312_CD_CURB RAMPS-76TH.DWG
LAYOUT NAME - 01
PLOT DATE : 10/20/2020 2:03 PM
PLOT BY : SCHMIDT, JUDENE M
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

NOTES:

CITY OF MILWAUKEE (WEST OF 68TH STREET) SIDEWALK WIDTH IS 5' TYP.

VILLAGE OF BROWN DEER (EAST OF 68TH STREET) SIDEWALK WIDTH IS 6' TYP.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD, AND SLOPES ADJUSTED TO MEET ADA COMPLIANCE.
NOTIFY ENGINEER IF ADA COMPLIANCE CANNOT BE OBTAINED.

SIDEWALK AND CURB AND GUTTER REPLACEMENT SHOULD BE TO THE NEAREST JOINT. LIMITS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

MATCH EXISTING SIDEWALK WIDTH AND CROSS SLOPE AT MATCH POINTS.

THE CONTRACTOR SHALL CONFIRM GRADES ON THE PLANS AND ENSURE POSITIVE DRAINAGE AT THE COMPLETION OF ALL WORK.

MATCH EXISTING CURB AND GUTTER ELEVATIONS.

CURB AND GUTTER ELEVATIONS ARE SHOWN AT THE FLOW LINE.

STATIONING/ OFFSETS FROM STH 100 C/L SHIFT ALIGNMENT

SEE CURB RAMP SDDs FOR ADDITIONAL INFORMATION

LEGEND

L	LANDING
	TOPSOIL, SOD LAWN, FERTILIZER TYPE B AND SOD WATER
	CONCRETE CURB PEDESTRIAN
	DETECTABLE WARNING FIELD
MEF	MAXIMUM EXTENT FEASIBLE
*	ELEVATION AT BACK OF CURB

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
1	354+72.47	65.148 RT	350277.22	581146.05	694.660
2	354+75.31	70.192 RT	350272.14	581148.81	694.638
3	354+71.65	70.136 RT	350272.25	581145.15	694.651
4	354+69.74	65.106 RT	350277.31	581143.31	694.731
5	354+69.66	70.105 RT	350272.31	581143.16	694.711
6	354+64.09	65.020 RT	350277.48	581137.66	694.973
7	354+64.01	70.019 RT	350272.48	581137.51	695.023
8	354+59.09	64.943 RT	350277.63	581132.67	695.023
9	354+59.01	69.942 RT	350272.63	581132.51	695.073
10	354+54.11	65.014 RT	350277.64	581127.68	695.156
11	354+54.09	69.915 RT	350272.74	581127.59	695.321

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
200	355+36.37	2.047 RT	350339.34	581210.90	696.335
201	355+41.18	0.207 LT	350341.52	581215.75	696.367
202	355+41.44	2.518 RT	350338.79	581215.96	696.399
203	355+36.63	4.785 RT	350336.60	581211.12	696.363
205	355+36.87	7.349 RT	350334.03	581211.32	696.394
206	355+41.89	7.273 RT	350334.03	581216.34	696.454
207	355+36.72	12.426 RT	350328.96	581211.09	696.347
208	355+41.73	12.391 RT	350328.91	581216.10	696.438
210	355+36.60	15.010 RT	350326.37	581210.93	696.280
211	355+41.61	14.972 RT	350326.33	581215.94	696.375

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
101	355+18.64	72.889 RT	350268.78	581192.09	694.870
102	355+20.48	67.966 RT	350273.67	581194.00	694.933
103	355+34.56	56.310 RT	350285.11	581208.26	695.227
104	355+39.62	55.244 RT	350286.10	581213.33	695.315
105	355+20.89	72.989 RT	350268.64	581194.34	694.889
106	355+39.52	57.179 RT	350284.16	581213.21	695.323
107	355+22.88	73.077 RT	350268.52	581196.32	694.969
108	355+23.11	68.083 RT	350273.51	581196.63	695.019
109	355+34.43	58.918 RT	350282.50	581208.09	695.316
110	355+39.42	59.176 RT	350282.17	581213.08	695.403
111	355+33.73	73.560 RT	350267.87	581207.17	695.730
112	355+33.95	68.565 RT	350272.86	581207.47	695.660
113	355+38.95	68.787 RT	350272.57	581212.46	695.730
114	355+38.73	73.782 RT	350267.58	581212.16	695.800
115	355+43.67	68.997 RT	350272.28	581217.18	696.023
116	355+43.72	73.971 RT	350267.31	581217.15	696.141

355+00

REJECT GUTTER

696.321

696.244

MOVE SIGN

STH 100

STH 100

76TH PLACE

EXISTING ROW

EXISTING ROW

SI

SI

TLE ADJUST VALVE

XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX

N

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CURB RAMP DETAILS - 76TH PLACE	SHEET 103 E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021313_CD_CURB RAMPS-76TH PLACE.DWG
LAYOUT NAME - 01

PLOT DATE : 10/19/2020 8:10 AM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

LEGEND

L	LANDING
	TOPSOIL, SOD LAWN, FERTILIZER TYPE B AND SOD WATER
	CONCRETE CURB PEDESTRIAN
	DETECTABLE WARNING FIELD
MEF	MAXIMUM EXTENT FEASIBLE
*	ELEVATION AT BACK OF CURB

NOTES:

CITY OF MILWAUKEE (WEST OF 68TH STREET) SIDEWALK WIDTH IS 5' TYP.

VILLAGE OF BROWN DEER (EAST OF 68TH STREET) SIDEWALK WIDTH IS 6' TYP.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD, AND SLOPES ADJUSTED TO MEET ADA COMPLIANCE.
NOTIFY ENGINEER IF ADA COMPLIANCE CANNOT BE OBTAINED.

SIDEWALK AND CURB AND GUTTER REPLACEMENT SHOULD BE TO THE NEAREST JOINT. LIMITS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

MATCH EXISTING SIDEWALK WIDTH AND CROSS SLOPE AT MATCH POINTS.

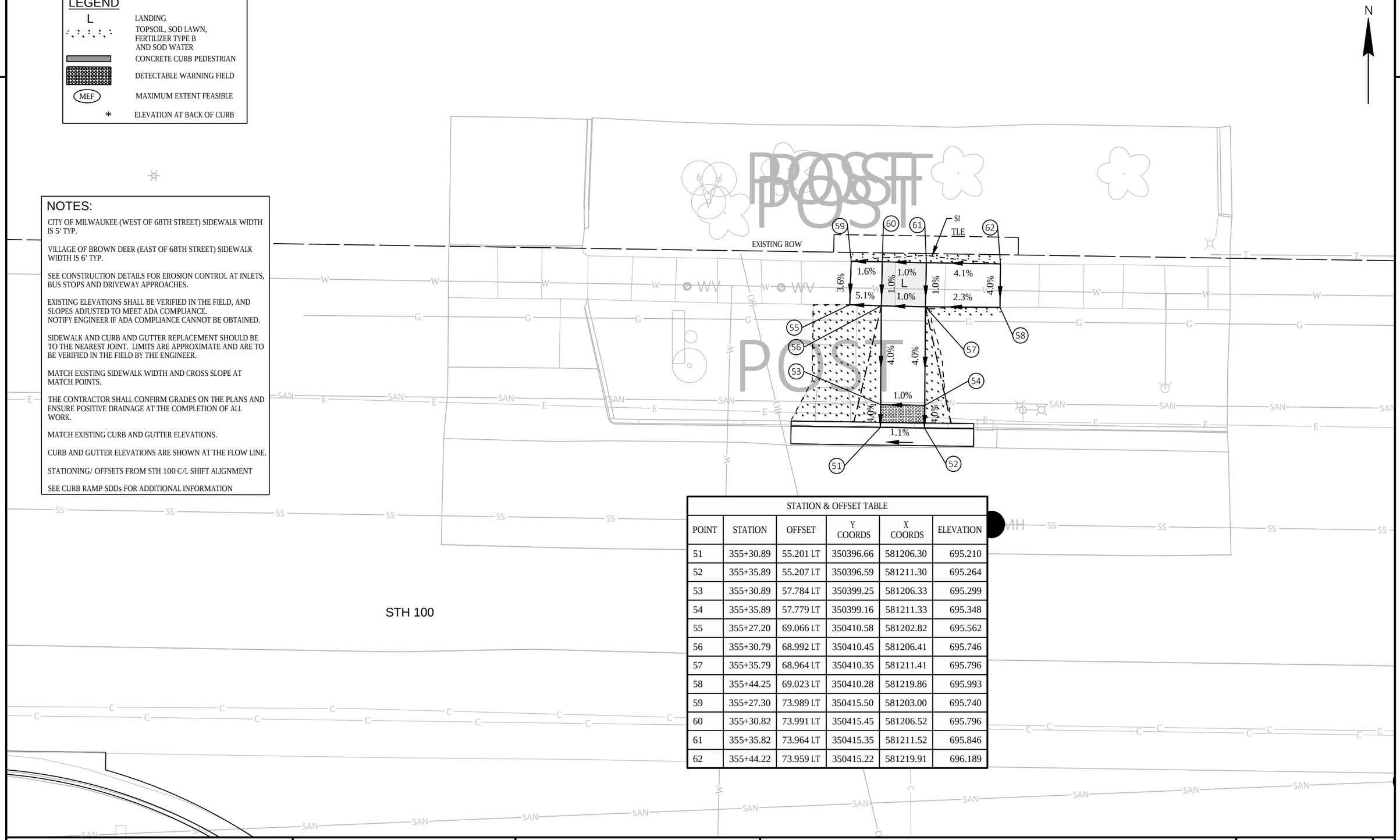
THE CONTRACTOR SHALL CONFIRM GRADES ON THE PLANS AND ENSURE POSITIVE DRAINAGE AT THE COMPLETION OF ALL WORK.

MATCH EXISTING CURB AND GUTTER ELEVATIONS.

CURB AND GUTTER ELEVATIONS ARE SHOWN AT THE FLOW LINE.

STATIONING/ OFFSETS FROM STH 100 C/L SHIFT ALIGNMENT

SEE CURB RAMP SDDs FOR ADDITIONAL INFORMATION

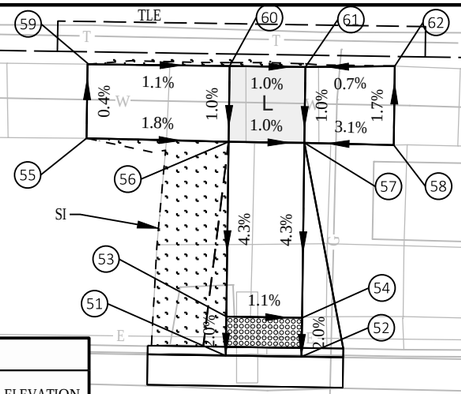


STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
51	355+30.89	55.201 LT	350396.66	581206.30	695.210
52	355+35.89	55.207 LT	350396.59	581211.30	695.264
53	355+30.89	57.784 LT	350399.25	581206.33	695.299
54	355+35.89	57.779 LT	350399.16	581211.33	695.348
55	355+27.20	69.066 LT	350410.58	581202.82	695.562
56	355+30.79	68.992 LT	350410.45	581206.41	695.746
57	355+35.79	68.964 LT	350410.35	581211.41	695.796
58	355+44.25	69.023 LT	350410.28	581219.86	695.993
59	355+27.30	73.989 LT	350415.50	581203.00	695.740
60	355+30.82	73.991 LT	350415.45	581206.52	695.796
61	355+35.82	73.964 LT	350415.35	581211.52	695.846
62	355+44.22	73.959 LT	350415.22	581219.91	696.189

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CURB RAMP DETAILS - 76TH PLACE	SHEET 104	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021313A_CD_CURB RAMPS-76TH PLACE.DWG
LAYOUT NAME - 02
PLOT DATE : 10/19/2020 8:28 AM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : ##########



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
201	362+74.79	15.083 LT	350345.16	581949.50	698.323
202	362+79.79	15.083 LT	350345.09	581954.50	698.302
203	362+74.79	12.511 LT	350342.59	581949.46	698.458
204	362+79.79	12.500 LT	350342.50	581954.46	698.438
205	362+74.81	7.489 LT	350337.57	581949.40	698.810
206	362+79.81	7.500 LT	350337.50	581954.40	698.760
207	362+74.82	2.489 LT	350332.57	581949.33	698.875
208	362+79.82	2.500 LT	350332.50	581954.33	698.825
209	362+74.83	2.522 RT	350327.56	581949.27	699.226
210	362+79.83	2.511 RT	350327.49	581954.27	699.176
211	362+74.84	7.522 RT	350322.56	581949.20	699.286
212	362+79.84	7.511 RT	350322.49	581954.20	699.236
213	362+74.85	12.500 RT	350317.58	581949.14	699.634
214	362+79.85	12.511 RT	350317.49	581954.14	699.579
215	362+74.86	15.084 RT	350315.00	581949.10	699.770
216	362+79.86	15.085 RT	350314.92	581954.10	699.714

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
51	362+74.71	55.091 LT	350385.17	581950.02	697.872
52	362+79.71	55.093 LT	350385.09	581955.02	697.816
53	362+74.70	57.674 LT	350387.75	581950.06	697.915
54	362+79.70	57.665 LT	350387.66	581955.06	697.859
55	362+65.30	69.295 LT	350399.51	581940.84	698.576
56	362+74.68	69.200 LT	350399.27	581950.21	698.405
57	362+79.68	69.210 LT	350399.21	581955.21	698.355
58	362+85.58	69.155 LT	350399.06	581961.11	698.536
59	362+65.36	74.189 LT	350404.40	581940.97	698.554
60	362+74.67	74.200 LT	350404.27	581950.28	698.455
61	362+79.67	74.210 LT	350404.21	581955.28	698.405
62	362+85.56	74.363 LT	350404.27	581961.18	698.448

NOTES:

CITY OF MILWAUKEE (WEST OF 68TH STREET) SIDEWALK WIDTH IS 5' TYP.

VILLAGE OF BROWN DEER (EAST OF 68TH STREET) SIDEWALK WIDTH IS 6' TYP.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD, AND SLOPES ADJUSTED TO MEET ADA COMPLIANCE.
NOTIFY ENGINEER IF ADA COMPLIANCE CANNOT BE OBTAINED.

SIDEWALK AND CURB AND GUTTER REPLACEMENT SHOULD BE TO THE NEAREST JOINT. LIMITS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

MATCH EXISTING SIDEWALK WIDTH AND CROSS SLOPE AT MATCH POINTS.

THE CONTRACTOR SHALL CONFIRM GRADES ON THE PLANS AND ENSURE POSITIVE DRAINAGE AT THE COMPLETION OF ALL WORK.

MATCH EXISTING CURB AND GUTTER ELEVATIONS.

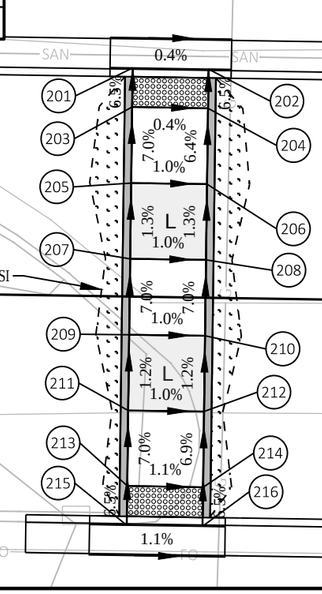
CURB AND GUTTER ELEVATIONS ARE SHOWN AT THE FLOW LINE.

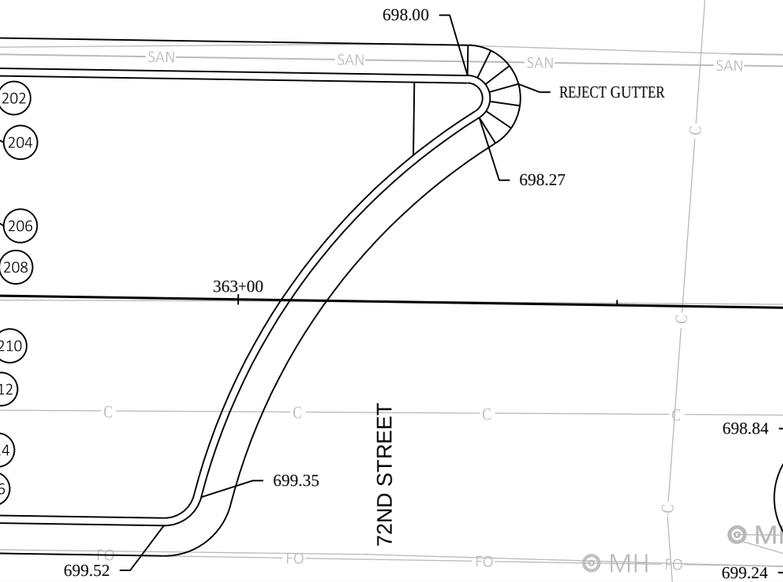
STATIONING/ OFFSETS FROM STH 100 C/L SHIFT ALIGNMENT

SEE CURB RAMP SDDs FOR ADDITIONAL INFORMATION

LEGEND

- L — LANDING
- TOPSOIL, SOD LAWN, FERTILIZER TYPE B AND SOD WATER
- CONCRETE CURB PEDESTRIAN
- DETECTABLE WARNING FIELD
- MEF — MAXIMUM EXTENT FEASIBLE
- * — ELEVATION AT BACK OF CURB





PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CURB RAMP DETAILS - 72ND STREET	SHEET 105	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021314_CD_CURB RAMPS-72ND.DWG
LAYOUT NAME - 01

PLOT DATE : 10/20/2020 2:06 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

LEGEND

L	LANDING
	TOPSOIL, SOD LAWN, FERTILIZER TYPE B AND SOD WATER
	CONCRETE CURB PEDESTRIAN
	DETECTABLE WARNING FIELD
MEF	MAXIMUM EXTENT FEASIBLE
*	ELEVATION AT BACK OF CURB

NOTES:

CITY OF MILWAUKEE (WEST OF 68TH STREET) SIDEWALK WIDTH IS 5' TYP.

VILLAGE OF BROWN DEER (EAST OF 68TH STREET) SIDEWALK WIDTH IS 6' TYP.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD, AND SLOPES ADJUSTED TO MEET ADA COMPLIANCE. NOTIFY ENGINEER IF ADA COMPLIANCE CANNOT BE OBTAINED.

SIDEWALK AND CURB AND GUTTER REPLACEMENT SHOULD BE TO THE NEAREST JOINT. LIMITS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

MATCH EXISTING SIDEWALK WIDTH AND CROSS SLOPE AT MATCH POINTS.

THE CONTRACTOR SHALL CONFIRM GRADES ON THE PLANS AND ENSURE POSITIVE DRAINAGE AT THE COMPLETION OF ALL WORK.

MATCH EXISTING CURB AND GUTTER ELEVATIONS.

CURB AND GUTTER ELEVATIONS ARE SHOWN AT THE FLOW LINE.

STATIONING/ OFFSETS FROM STH 100 C/L SHIFT ALIGNMENT

SEE CURB RAMP SDDs FOR ADDITIONAL INFORMATION

STH 100

STH 100

N

SEE PEDESTRIAN BARRIER DETAIL

ADJUST VALVE

EXISTING ROW

EXISTING ROW

ADJUST VALVE

72ND STREET

XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
1	362+74.95	57.902 RT	350272.18	581948.54	699.415
2	362+79.95	61.352 RT	350268.66	581953.49	699.482
3	362+85.56	68.797 RT	350261.13	581958.98	699.586
4	362+87.32	73.787 RT	350256.11	581960.66	699.644
5	362+74.96	62.172 RT	350267.91	581948.48	699.440
6	362+84.94	73.800 RT	350256.13	581958.28	699.657
7	362+74.97	64.161 RT	350265.92	581948.46	699.480
8	362+79.97	64.144 RT	350265.86	581953.46	699.530
9	362+82.91	68.816 RT	350261.15	581956.33	699.632
10	362+82.95	73.816 RT	350256.15	581956.29	699.697
11	362+74.97	68.856 RT	350261.23	581948.39	699.761
12	362+79.97	68.828 RT	350261.18	581953.39	699.811

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
13	362+80.00	73.828 RT	350256.18	581953.34	699.861
14	362+75.00	73.855 RT	350256.23	581948.34	699.811
15	362+64.18	68.995 RT	350261.26	581937.60	700.229
16	362+64.22	73.915 RT	350256.34	581937.57	700.315
17	362+79.17	83.840 RT	350246.18	581952.36	700.326
18	362+74.18	83.723 RT	350246.38	581947.37	700.502

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
151	363+28.83	73.556 RT	350255.71	582002.17	699.686
152	363+30.75	68.545 RT	350260.69	582004.17	699.526
153	363+31.43	73.541 RT	350255.68	582004.78	699.694
154	363+33.42	73.530 RT	350255.66	582006.76	699.734
155	363+33.41	68.530 RT	350260.66	582006.82	699.576
156	363+37.01	73.510 RT	350255.63	582010.36	699.770
157	363+36.99	68.510 RT	350260.63	582010.40	699.720
158	363+42.01	73.482 RT	350255.58	582015.36	699.820
159	363+41.99	68.482 RT	350260.58	582015.40	699.770
160	363+52.00	73.427 RT	350255.48	582025.35	699.915
161	363+51.92	68.462 RT	350260.44	582025.34	699.736
162	363+41.93	83.966 RT	350245.10	582015.11	700.358
163	363+36.97	84.099 RT	350245.04	582010.15	700.288

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CURB RAMP DETAILS - 72ND STREET	SHEET 106 E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021315_CD_CURB RAMPS-72ND.DWG
LAYOUT NAME - 01

PLOT DATE : 10/20/2020 2:12 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

2

LEGEND

L	LANDING
	TOPSOIL, SOD LAWN, FERTILIZER TYPE B AND SOD WATER
	CONCRETE CURB PEDESTRIAN
	DETECTABLE WARNING FIELD
MEF	MAXIMUM EXTENT FEASIBLE
*	ELEVATION AT BACK OF CURB

NOTES:

CITY OF MILWAUKEE (WEST OF 68TH STREET) SIDEWALK WIDTH IS 5' TYP.

VILLAGE OF BROWN DEER (EAST OF 68TH STREET) SIDEWALK WIDTH IS 6' TYP.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD, AND SLOPES ADJUSTED TO MEET ADA COMPLIANCE. NOTIFY ENGINEER IF ADA COMPLIANCE CANNOT BE OBTAINED.

SIDEWALK AND CURB AND GUTTER REPLACEMENT SHOULD BE TO THE NEAREST JOINT. LIMITS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

MATCH EXISTING SIDEWALK WIDTH AND CROSS SLOPE AT MATCH POINTS.

THE CONTRACTOR SHALL CONFIRM GRADES ON THE PLANS AND ENSURE POSITIVE DRAINAGE AT THE COMPLETION OF ALL WORK.

MATCH EXISTING CURB AND GUTTER ELEVATIONS.

CURB AND GUTTER ELEVATIONS ARE SHOWN AT THE FLOW LINE.

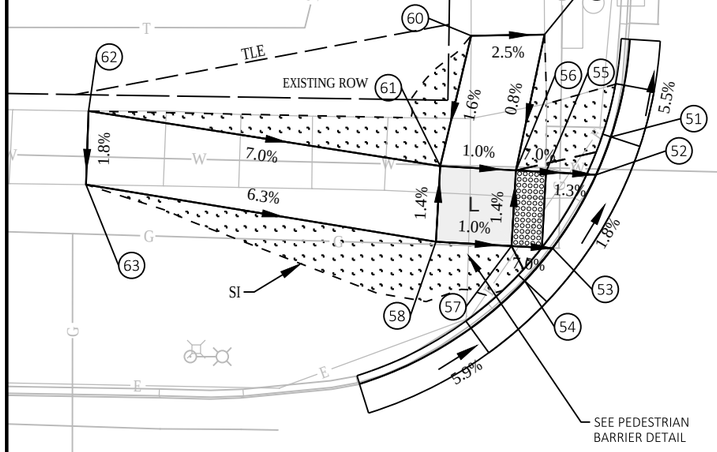
STATIONING/ OFFSETS FROM STH 100 C/L SHIFT ALIGNMENT

SEE CURB RAMP SDDs FOR ADDITIONAL INFORMATION

N 70TH ST

XXXX XXXX XXXX XXXX XXXX XXXX XXXX

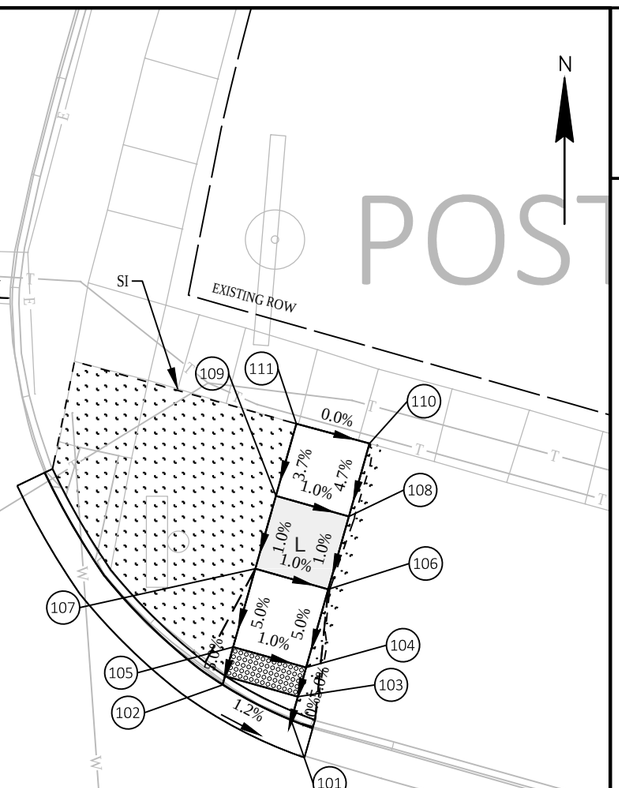
STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
51	367+58.42	72.748 LT	350395.42	582433.96	691.616
52	367+57.48	70.232 LT	350392.91	582432.98	691.668
53	367+54.68	65.340 LT	350388.07	582430.10	691.779
54	367+52.88	63.154 LT	350385.91	582428.27	691.834
55	367+54.17	70.363 LT	350393.10	582429.66	691.711
56	367+52.18	70.442 LT	350393.21	582427.68	691.850
57	367+51.97	65.446 LT	350388.21	582427.39	691.922
58	367+46.98	65.655 LT	350388.50	582422.40	691.972
59	367+53.93	79.428 LT	350402.16	582429.57	691.921
60	367+49.10	79.282 LT	350402.09	582424.73	692.043
61	367+47.19	70.651 LT	350393.49	582422.69	691.900
62	367+23.92	73.926 LT	350397.12	582399.48	693.539
63	367+23.83	69.069 LT	350392.27	582399.31	693.450



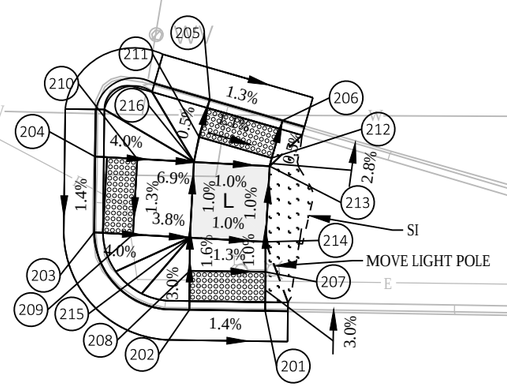
STH 100

N 70TH ST

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
101	368+54.77	87.125 LT	350408.32	582530.51	689.679
102	368+50.20	89.395 LT	350410.66	582525.98	689.744
103	368+55.19	88.696 LT	350409.88	582530.96	689.695
104	368+55.70	90.630 LT	350411.81	582531.50	689.795
105	368+50.87	91.906 LT	350413.16	582526.68	689.847
106	368+57.08	95.804 LT	350416.96	582532.96	690.063
107	368+52.25	97.090 LT	350418.32	582528.15	690.115
108	368+58.37	100.635 LT	350421.77	582534.32	690.115
109	368+53.54	101.922 LT	350423.13	582529.51	690.165
110	368+59.66	105.475 LT	350426.59	582535.68	690.349
111	368+54.81	106.695 LT	350427.88	582530.85	690.346



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
201	368+49.16	57.037 LT	350378.32	582524.44	690.010
202	368+44.16	57.035 LT	350378.39	582519.44	690.083
203	368+37.79	62.051 LT	350383.50	582513.14	690.203
204	368+37.77	67.056 LT	350388.51	582513.21	690.276
205	368+45.29	70.940 LT	350392.28	582520.78	689.918
206	368+50.11	69.629 LT	350390.89	582525.59	689.855
207	368+49.14	59.620 LT	350380.90	582524.47	689.959
208	368+44.14	59.607 LT	350380.96	582519.47	690.026
209	368+40.36	61.950 LT	350383.36	582515.71	690.132
210	368+40.56	66.945 LT	350388.36	582516.00	690.199
211	368+44.62	68.458 LT	350389.81	582520.07	689.931
212	368+49.44	67.135 LT	350388.41	582524.87	689.874
213	368+49.31	66.599 LT	350387.88	582524.73	689.890
214	368+49.11	61.603 LT	350382.88	582524.46	689.940
215	368+44.11	61.801 LT	350383.16	582519.47	689.990
216	368+44.31	66.797 LT	350388.15	582519.74	689.940



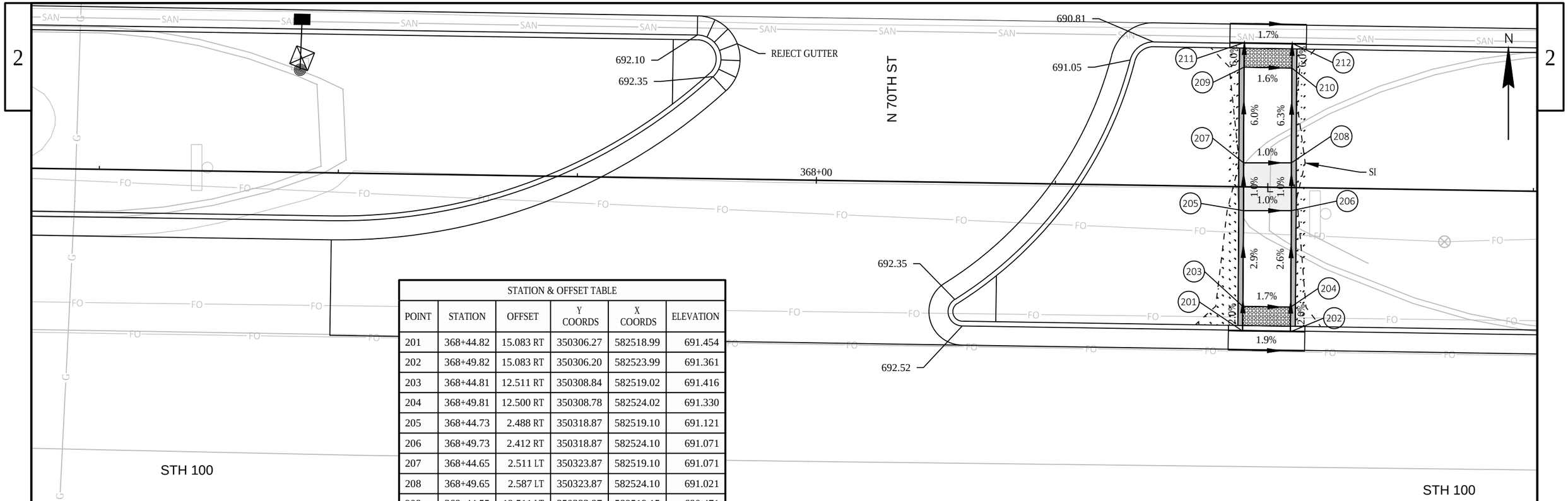
STH 100

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CURB RAMP DETAILS - 76TH PLACE	SHEET 107	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021316_CD_CURB RAMPS-70TH.DWG
LAYOUT NAME - 01

PLOT DATE : 10/20/2020 2:18 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
201	368+44.82	15.083 RT	350306.27	582518.99	691.454
202	368+49.82	15.083 RT	350306.20	582523.99	691.361
203	368+44.81	12.511 RT	350308.84	582519.02	691.416
204	368+49.81	12.500 RT	350308.78	582524.02	691.330
205	368+44.73	2.488 RT	350318.87	582519.10	691.121
206	368+49.73	2.412 RT	350318.87	582524.10	691.071
207	368+44.65	2.511 LT	350323.87	582519.10	691.071
208	368+49.65	2.587 LT	350323.87	582524.10	691.021
209	368+44.55	12.511 LT	350333.87	582519.15	690.471
210	368+49.55	12.500 LT	350333.78	582524.14	690.393
211	368+44.54	15.083 LT	350336.44	582519.18	690.348
212	368+49.54	15.083 LT	350336.36	582524.18	690.264

NOTES:

CITY OF MILWAUKEE (WEST OF 68TH STREET) SIDEWALK WIDTH IS 5' TYP.

VILLAGE OF BROWN DEER (EAST OF 68TH STREET) SIDEWALK WIDTH IS 6' TYP.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD, AND SLOPES ADJUSTED TO MEET ADA COMPLIANCE.
NOTIFY ENGINEER IF ADA COMPLIANCE CANNOT BE OBTAINED.

SIDEWALK AND CURB AND GUTTER REPLACEMENT SHOULD BE TO THE NEAREST JOINT. LIMITS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

MATCH EXISTING SIDEWALK WIDTH AND CROSS SLOPE AT MATCH POINTS.

THE CONTRACTOR SHALL CONFIRM GRADES ON THE PLANS AND ENSURE POSITIVE DRAINAGE AT THE COMPLETION OF ALL WORK.

MATCH EXISTING CURB AND GUTTER ELEVATIONS.

CURB AND GUTTER ELEVATIONS ARE SHOWN AT THE FLOW LINE.

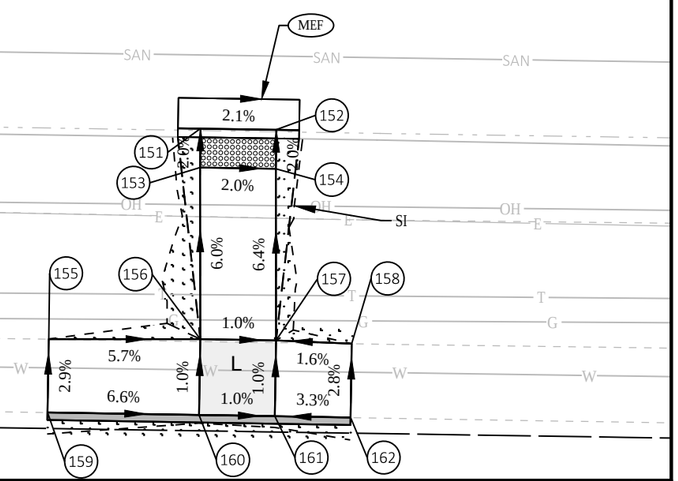
STATIONING/ OFFSETS FROM STH 100 C/L SHIFT ALIGNMENT

SEE CURB RAMP SDDs FOR ADDITIONAL INFORMATION

LEGEND

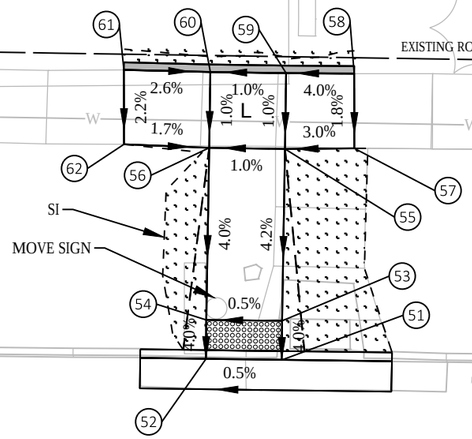
L	LANDING
	TOPSOIL, SOD LAWN, FERTILIZER TYPE B AND SOD WATER
	CONCRETE CURB PEDESTRIAN
	DETECTABLE WARNING FIELD
MEF	MAXIMUM EXTENT FEASIBLE
*	ELEVATION AT BACK OF CURB

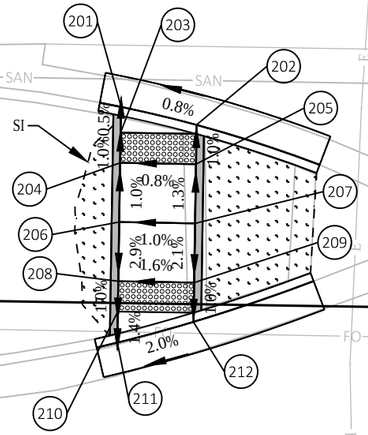
STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
151	368+45.18	55.054 RT	350266.30	582518.75	691.689
152	368+50.18	55.054 RT	350266.22	582523.75	691.583
153	368+45.19	57.626 RT	350263.73	582518.72	691.731
154	368+50.19	57.637 RT	350263.64	582523.71	691.633
155	368+35.37	69.109 RT	350252.40	582508.73	692.983
156	368+45.37	68.952 RT	350252.40	582518.73	692.410
157	368+50.37	68.959 RT	350252.32	582523.73	692.360
158	368+55.37	69.100 RT	350252.10	582528.72	692.441
159	368+35.37	73.939 RT	350247.57	582508.65	693.121
160	368+45.37	73.952 RT	350247.40	582518.64	692.460
161	368+50.37	73.959 RT	350247.32	582523.64	692.410
162	368+55.37	73.966 RT	350247.23	582528.64	692.575



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CURB RAMP DETAILS - 70TH ST	SHEET 108	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021316A_CD_CURB RAMPS-70TH.DWG
LAYOUT NAME - 01
PLOT DATE : 10/19/2020 9:04 AM
PLOT BY : SCHMIDT, JUDENE M
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42





STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
51	375+81.45	54.986 LT	350365.06	583256.61	679.747
52	375+76.45	54.976 LT	350365.12	583251.61	679.721
53	375+81.44	57.569 LT	350367.64	583256.64	679.833
54	375+76.44	57.548 LT	350367.69	583251.64	679.807
55	375+81.45	68.910 LT	350378.98	583256.83	680.311
56	375+76.45	68.910 LT	350379.05	583251.83	680.261
57	375+86.02	69.018 LT	350379.02	583261.40	680.449
58	375+85.95	73.948 LT	350383.95	583261.40	680.540
59	375+81.45	73.910 LT	350383.98	583256.90	680.361
60	375+76.45	73.910 LT	350384.05	583251.90	680.311
61	375+70.74	73.958 LT	350384.19	583246.20	680.462
62	375+70.83	69.052 LT	350379.28	583246.21	680.356

STH 100

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
201	375+76.44	12.953 LT	350323.10	583250.96	680.055
202	375+81.44	11.842 LT	350321.92	583255.94	680.094
203	375+76.44	11.240 LT	350321.39	583250.93	680.063
204	375+76.44	9.252 LT	350319.40	583250.90	680.083
205	375+81.44	9.240 LT	350319.31	583255.90	680.122
206	375+76.44	5.345 LT	350315.50	583250.84	680.122
207	375+81.44	5.333 LT	350315.41	583255.84	680.172
208	375+76.44	1.438 LT	350311.59	583250.78	680.009
209	375+81.44	1.427 LT	350311.50	583255.78	680.089
210	375+76.44	0.562 RT	350309.59	583250.75	679.989
211	375+76.44	2.621 RT	350307.53	583250.72	679.960
212	375+81.44	1.174 RT	350308.90	583255.74	680.066

LEGEND

- L — LANDING
- TOPSOIL, SOD LAWN, FERTILIZER TYPE B AND SOD WATER
- CONCRETE CURB PEDESTRIAN
- DETECTABLE WARNING FIELD
- MEF — MAXIMUM EXTENT FEASIBLE
- * — ELEVATION AT BACK OF CURB

NOTES:

CITY OF MILWAUKEE (WEST OF 68TH STREET) SIDEWALK WIDTH IS 5' TYP.

VILLAGE OF BROWN DEER (EAST OF 68TH STREET) SIDEWALK WIDTH IS 6' TYP.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD, AND SLOPES ADJUSTED TO MEET ADA COMPLIANCE.
NOTIFY ENGINEER IF ADA COMPLIANCE CANNOT BE OBTAINED.

SIDEWALK AND CURB AND GUTTER REPLACEMENT SHOULD BE TO THE NEAREST JOINT. LIMITS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

MATCH EXISTING SIDEWALK WIDTH AND CROSS SLOPE AT MATCH POINTS.

THE CONTRACTOR SHALL CONFIRM GRADES ON THE PLANS AND ENSURE POSITIVE DRAINAGE AT THE COMPLETION OF ALL WORK.

MATCH EXISTING CURB AND GUTTER ELEVATIONS.

CURB AND GUTTER ELEVATIONS ARE SHOWN AT THE FLOW LINE.

STATIONING/ OFFSETS FROM STH 100 C/L SHIFT ALIGNMENT

SEE CURB RAMP SDDs FOR ADDITIONAL INFORMATION

COMMERCIAL DRIVEWAY

EXISTING ROW

68TH ST.

376+00

377+00

N

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CURB RAMP DETAILS - 68TH STREET	SHEET 109	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021317_CD_CURB RAMPS-68TH.DWG
LAYOUT NAME - 01

PLOT DATE : 10/19/2020 9:21 AM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
1	375+76.42	55.107 RT	350255.05	583249.90	679.870
2	375+81.42	55.793 RT	350254.29	583254.89	679.895
3	375+95.22	66.479 RT	350243.39	583268.52	679.983
4	375+97.22	71.467 RT	350238.38	583270.44	680.009
5	375+76.43	56.428 RT	350253.73	583249.89	679.883
6	375+94.58	71.483 RT	350238.40	583267.81	680.036
7	375+76.44	58.417 RT	350251.74	583249.87	679.903
8	375+81.44	58.397 RT	350251.69	583254.87	679.921
9	375+92.22	66.498 RT	350243.42	583265.52	680.006
10	375+92.22	71.496 RT	350238.42	583265.44	680.059
11	375+76.46	61.596 RT	350248.56	583249.84	679.935
12	375+81.46	61.565 RT	350248.52	583254.84	679.953

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
13	375+89.91	66.512 RT	350243.44	583263.21	680.036
14	375+89.89	71.496 RT	350238.46	583263.11	680.083
15	375+76.49	66.596 RT	350243.56	583249.79	680.135
16	375+81.49	66.565 RT	350243.52	583254.79	680.185
17	375+81.52	71.456 RT	350238.63	583254.75	680.234
18	375+76.52	71.491 RT	350238.67	583249.75	680.184
19	375+64.91	68.993 RT	350241.34	583238.18	680.707
20	375+65.05	73.904 RT	350236.43	583238.24	680.838
21	375+89.84	80.310 RT	350229.65	583262.93	680.662
22	375+94.67	80.274 RT	350229.61	583267.76	680.554

NOTES:

CITY OF MILWAUKEE (WEST OF 68TH STREET) SIDEWALK WIDTH IS 5' TYP.

VILLAGE OF BROWN DEER (EAST OF 68TH STREET) SIDEWALK WIDTH IS 6' TYP.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD, AND SLOPES ADJUSTED TO MEET ADA COMPLIANCE. NOTIFY ENGINEER IF ADA COMPLIANCE CANNOT BE OBTAINED.

SIDEWALK AND CURB AND GUTTER REPLACEMENT SHOULD BE TO THE NEAREST JOINT. LIMITS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

MATCH EXISTING SIDEWALK WIDTH AND CROSS SLOPE AT MATCH POINTS.

THE CONTRACTOR SHALL CONFIRM GRADES ON THE PLANS AND ENSURE POSITIVE DRAINAGE AT THE COMPLETION OF ALL WORK.

MATCH EXISTING CURB AND GUTTER ELEVATIONS.

CURB AND GUTTER ELEVATIONS ARE SHOWN AT THE FLOW LINE.

STATIONING/ OFFSETS FROM STH 100 C/L SHIFT ALIGNMENT

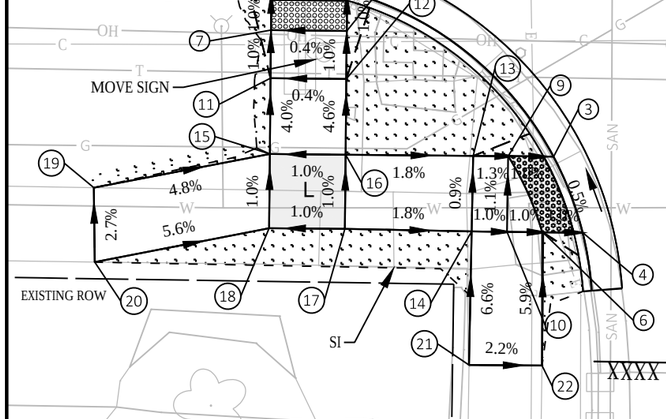
SEE CURB RAMP SDDs FOR ADDITIONAL INFORMATION

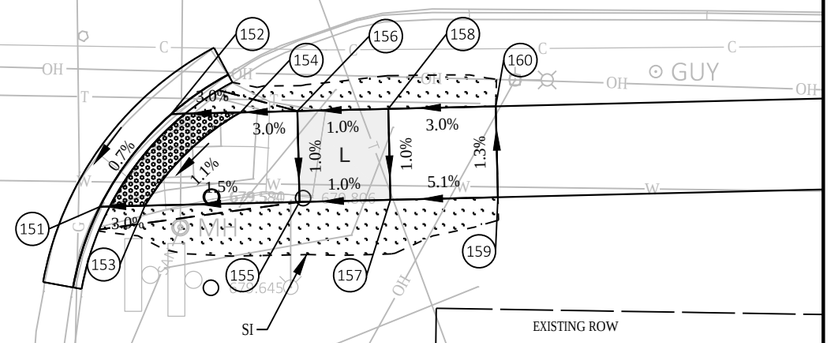
LEGEND

- L — LANDING
- TOPSOIL, SOD LAWN, FERTILIZER TYPE B AND SOD WATER
- CONCRETE CURB PEDESTRIAN
- DETECTABLE WARNING FIELD
- MEF — MAXIMUM EXTENT FEASIBLE
- * — ELEVATION AT BACK OF CURB

N

STH 100





STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
151	376+68.94	68.648 RT	350240.09	583342.17	679.052
152	376+73.55	62.461 RT	350246.20	583346.88	679.110
153	376+71.92	68.530 RT	350240.16	583345.16	679.128
154	376+78.14	62.279 RT	350246.31	583351.47	679.229
155	376+82.12	68.126 RT	350240.40	583355.36	679.281
156	376+81.88	62.131 RT	350246.40	583355.22	679.341
157	376+88.11	67.889 RT	350240.54	583361.36	679.341
158	376+87.88	61.894 RT	350246.54	583361.21	679.401
159	376+95.21	67.608 RT	350240.71	583368.45	679.704
160	376+94.97	61.613 RT	350246.71	583368.31	679.614

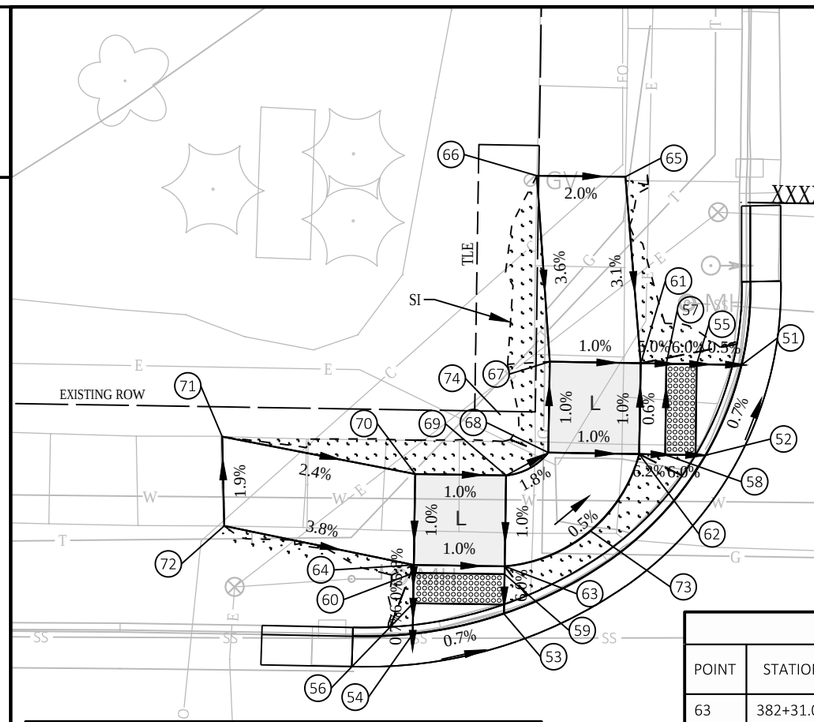
RADIAL WARNING FIELD PANEL LAYOUT TABLE

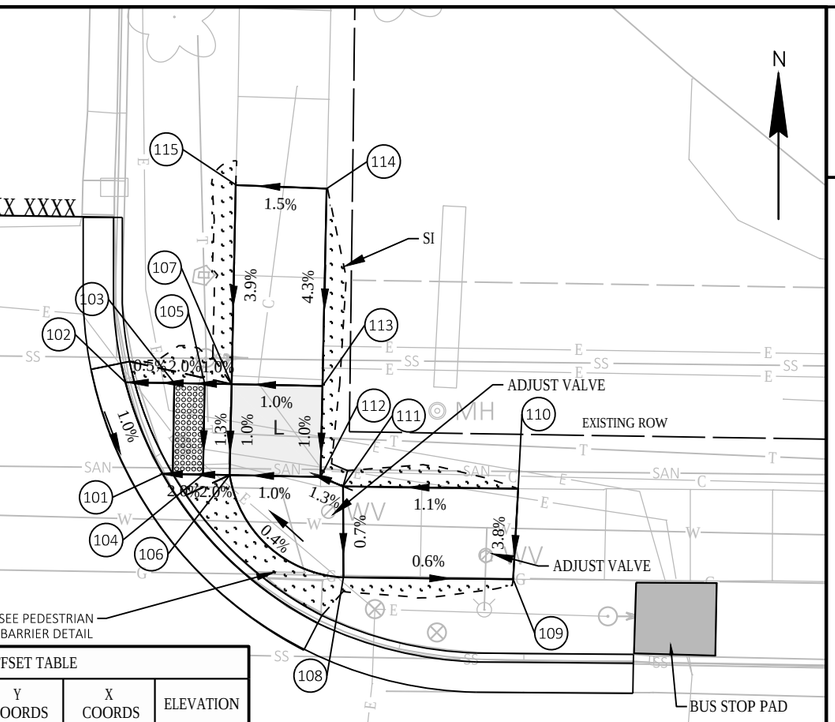
QUADRANT	BACK OF CURB RADIUS (FT)	LANDING LENGTH 'XR' (FT)	RADIAL WARNING FIELD AREA (SF)	RADIAL LONG CHORD (FT)
SOUTHWEST	21.4'	6.7'	10.9 SF	5.4'
SOUTHEAST	19.5'	8.8'	16.7 SF	7.94'

68TH STREET

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CURB RAMP DETAILS - 68TH STREET	SHEET 110	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021318_CD_CURB RAMPS-68TH.DWG
LAYOUT NAME - 01
PLOT DATE : 10/19/2020 9:48 AM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : ##########
WISDOT/CADDS SHEET 42





STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
63	382+31.07	59.653 LT	350364.54	583906.29	677.820
64	382+25.07	59.653 LT	350364.63	583900.29	677.880
65	382+38.63	85.484 LT	350390.25	583914.26	678.085
66	382+32.79	85.456 LT	350390.31	583908.42	678.201
67	382+33.83	73.208 LT	350378.05	583909.27	677.763
68	382+33.82	67.208 LT	350372.05	583909.16	677.823
69	382+31.07	65.653 LT	350370.54	583906.39	677.880
70	382+25.07	65.655 LT	350370.63	583900.39	677.940
71	382+12.29	67.918 LT	350373.10	583887.65	678.249
72	382+12.52	62.028 LT	350367.20	583887.78	678.360
73	382+36.66	62.093 LT	350366.89	583911.93	677.791
74	382+30.64	69.630 LT	350374.52	583906.02	678.195

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
101	383+60.04	67.022 LT	350369.88	584035.36	676.792
102	383+57.49	73.026 LT	350375.92	584032.91	676.861
103	383+60.73	73.021 LT	350375.87	584036.15	676.877
104	383+62.72	67.018 LT	350369.83	584038.04	676.839
105	383+62.73	73.018 LT	350375.83	584038.15	676.917
106	383+64.47	67.016 LT	350369.80	584039.80	676.874
107	383+64.51	73.016 LT	350375.80	584039.93	676.934
108	383+72.08	60.381 LT	350363.05	584047.30	676.913
109	383+83.28	60.435 LT	350362.93	584058.50	676.850
110	383+83.52	66.417 LT	350368.90	584058.84	677.079
111	383+71.97	66.383 LT	350369.05	584047.28	676.955
112	383+70.47	66.983 LT	350369.68	584045.80	676.934

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
113	383+70.51	72.983 LT	350375.67	584045.92	676.994
114	383+70.58	86.008 LT	350388.70	584046.20	677.545
115	383+64.60	86.153 LT	350388.94	584040.23	677.456

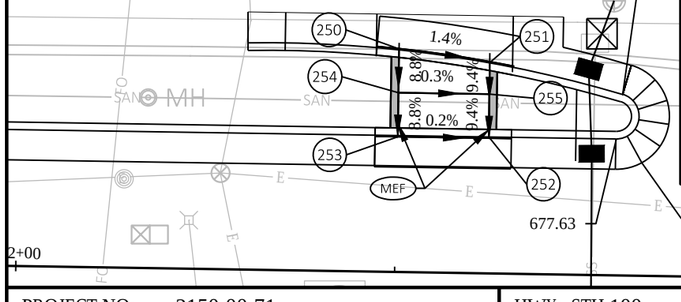
STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
51	382+46.49	73.189 LT	350377.83	583921.92	677.483
52	382+44.21	67.192 LT	350371.87	583919.55	677.533
53	382+31.07	56.523 LT	350361.41	583906.24	677.667
54	382+25.07	55.094 LT	350360.07	583900.22	677.715
55	382+43.52	73.193 LT	350377.88	583918.96	677.498
56	382+25.07	57.129 LT	350362.11	583900.25	677.730
57	382+41.52	73.188 LT	350377.91	583916.96	677.618
58	382+41.54	67.188 LT	350371.91	583916.88	677.656
59	382+31.06	59.143 LT	350364.03	583906.28	677.790
60	382+25.06	59.129 LT	350364.11	583900.28	677.850
61	382+39.83	73.199 LT	350377.94	583915.27	677.703
62	382+39.82	67.199 LT	350371.94	583915.16	677.763

STH 100

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
250	382+25.07	14.722 LT	350319.71	583899.59	678.217
251	382+31.06	13.904 LT	350318.79	583905.57	678.134
252	382+31.08	9.000 LT	350313.89	583905.51	677.672
253	382+25.07	8.917 LT	350313.90	583899.50	677.704
254	382+25.07	11.829 LT	350316.81	583899.54	677.961
255	382+31.07	11.829 LT	350316.72	583905.54	677.940



LEGEND

L	LANDING
	TOPSOIL, SOD LAWN, FERTILIZER TYPE B AND SOD WATER
	CONCRETE CURB PEDESTRIAN
	DETECTABLE WARNING FIELD
MEF	MAXIMUM EXTENT FEASIBLE
*	ELEVATION AT BACK OF CURB

STH 100

NOTES:

CITY OF MILWAUKEE (WEST OF 68TH STREET) SIDEWALK WIDTH IS 5' TYP.

VILLAGE OF BROWN DEER (EAST OF 68TH STREET) SIDEWALK WIDTH IS 6' TYP.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD, AND SLOPES ADJUSTED TO MEET ADA COMPLIANCE. NOTIFY ENGINEER IF ADA COMPLIANCE CANNOT BE OBTAINED.

SIDEWALK AND CURB AND GUTTER REPLACEMENT SHOULD BE TO THE NEAREST JOINT. LIMITS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

MATCH EXISTING SIDEWALK WIDTH AND CROSS SLOPE AT MATCH POINTS.

THE CONTRACTOR SHALL CONFIRM GRADES ON THE PLANS AND ENSURE POSITIVE DRAINAGE AT THE COMPLETION OF ALL WORK.

MATCH EXISTING CURB AND GUTTER ELEVATIONS.

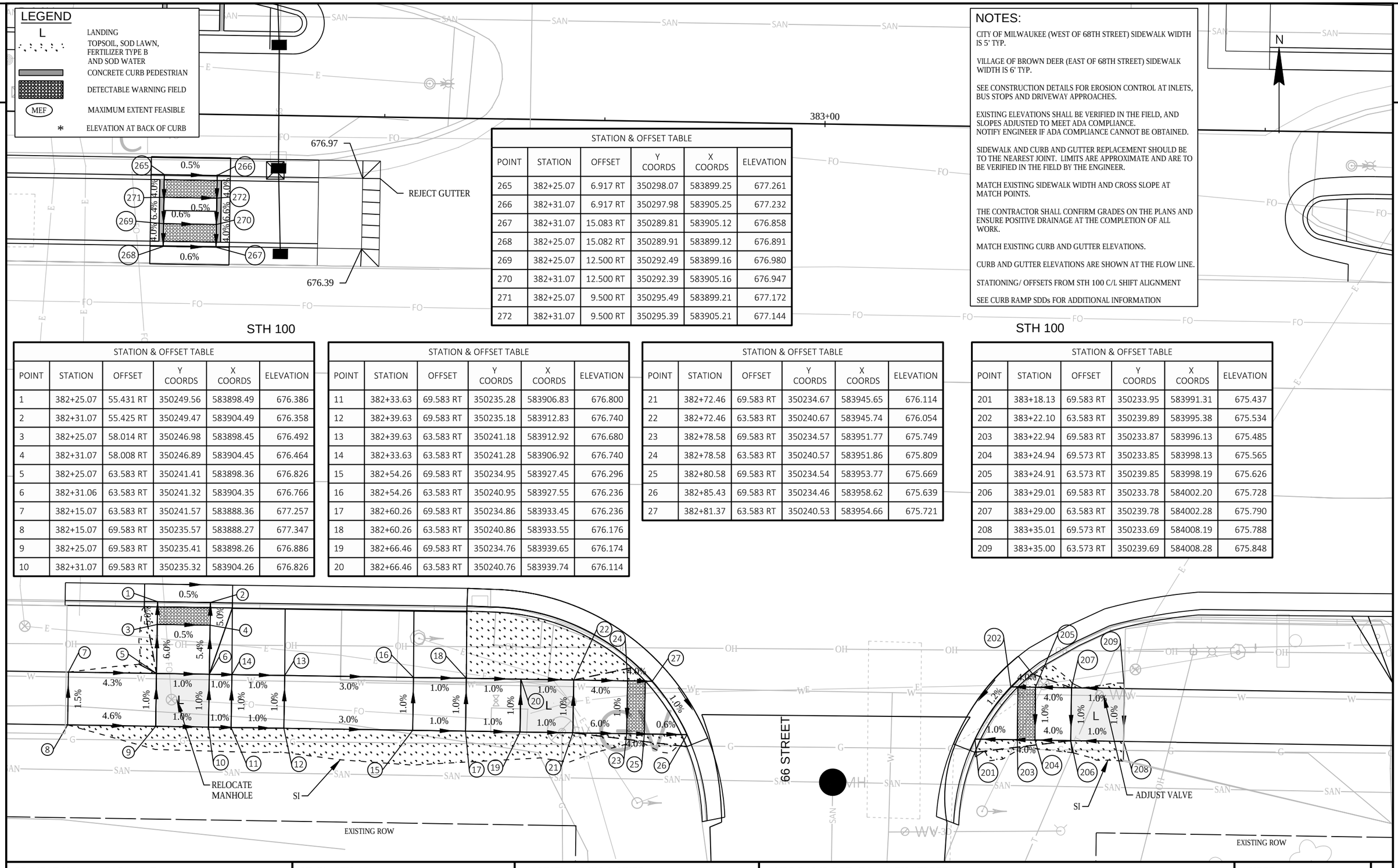
CURB AND GUTTER ELEVATIONS ARE SHOWN AT THE FLOW LINE.

STATIONING/ OFFSETS FROM STH 100 C/L SHIFT ALIGNMENT

SEE CURB RAMP SDDs FOR ADDITIONAL INFORMATION

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CURB RAMP DETAILS - PARK PLAZA COURT	SHEET 111	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021319_CD_CURB RAMPS-PARK PLAZA.DWG
LAYOUT NAME - 01
PLOT DATE : 10/19/2020 11:04 AM
PLOT BY : SCHMIDT, JUDENE M
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42



NOTES:

CITY OF MILWAUKEE (WEST OF 68TH STREET) SIDEWALK WIDTH IS 5' TYP.

VILLAGE OF BROWN DEER (EAST OF 68TH STREET) SIDEWALK WIDTH IS 6' TYP.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD, AND SLOPES ADJUSTED TO MEET ADA COMPLIANCE. NOTIFY ENGINEER IF ADA COMPLIANCE CANNOT BE OBTAINED.

SIDEWALK AND CURB AND GUTTER REPLACEMENT SHOULD BE TO THE NEAREST JOINT. LIMITS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

MATCH EXISTING SIDEWALK WIDTH AND CROSS SLOPE AT MATCH POINTS.

THE CONTRACTOR SHALL CONFIRM GRADES ON THE PLANS AND ENSURE POSITIVE DRAINAGE AT THE COMPLETION OF ALL WORK.

MATCH EXISTING CURB AND GUTTER ELEVATIONS.

CURB AND GUTTER ELEVATIONS ARE SHOWN AT THE FLOW LINE.

STATIONING/ OFFSETS FROM STH 100 C/L SHIFT ALIGNMENT

SEE CURB RAMP SDDs FOR ADDITIONAL INFORMATION

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
265	382+25.07	6.917 RT	350298.07	583899.25	677.261
266	382+31.07	6.917 RT	350297.98	583905.25	677.232
267	382+31.07	15.083 RT	350289.81	583905.12	676.858
268	382+25.07	15.082 RT	350289.91	583899.12	676.891
269	382+25.07	12.500 RT	350292.49	583899.16	676.980
270	382+31.07	12.500 RT	350292.39	583905.16	676.947
271	382+25.07	9.500 RT	350295.49	583899.21	677.172
272	382+31.07	9.500 RT	350295.39	583905.21	677.144

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
1	382+25.07	55.431 RT	350249.56	583898.49	676.386
2	382+31.07	55.425 RT	350249.47	583904.49	676.358
3	382+25.07	58.014 RT	350246.98	583898.45	676.492
4	382+31.07	58.008 RT	350246.89	583904.45	676.464
5	382+25.07	63.583 RT	350241.41	583898.36	676.826
6	382+31.06	63.583 RT	350241.32	583904.35	676.766
7	382+15.07	63.583 RT	350241.57	583888.36	677.257
8	382+15.07	69.583 RT	350235.57	583888.27	677.347
9	382+25.07	69.583 RT	350235.41	583898.26	676.886
10	382+31.07	69.583 RT	350235.32	583904.26	676.826

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
11	382+33.63	69.583 RT	350235.28	583906.83	676.800
12	382+39.63	69.583 RT	350235.18	583912.83	676.740
13	382+39.63	63.583 RT	350241.18	583912.92	676.680
14	382+33.63	63.583 RT	350241.28	583906.92	676.740
15	382+54.26	69.583 RT	350234.95	583927.45	676.296
16	382+54.26	63.583 RT	350240.95	583927.55	676.236
17	382+60.26	69.583 RT	350234.86	583933.45	676.236
18	382+60.26	63.583 RT	350240.86	583933.55	676.176
19	382+66.46	69.583 RT	350234.76	583939.65	676.174
20	382+66.46	63.583 RT	350240.76	583939.74	676.114

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
21	382+72.46	69.583 RT	350234.67	583945.65	676.114
22	382+72.46	63.583 RT	350240.67	583945.74	676.054
23	382+78.58	69.583 RT	350234.57	583951.77	675.749
24	382+78.58	63.583 RT	350240.57	583951.86	675.809
25	382+80.58	69.583 RT	350234.54	583953.77	675.669
26	382+85.43	69.583 RT	350234.46	583958.62	675.639
27	382+81.37	63.583 RT	350240.53	583954.66	675.721

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
201	383+18.13	69.583 RT	350233.95	583991.31	675.437
202	383+22.10	63.583 RT	350239.89	583995.38	675.534
203	383+22.94	69.583 RT	350233.87	583996.13	675.485
204	383+24.94	69.573 RT	350233.85	583998.13	675.565
205	383+24.91	63.573 RT	350239.85	583998.19	675.626
206	383+29.01	69.583 RT	350233.78	584002.20	675.728
207	383+29.00	63.583 RT	350239.78	584002.28	675.790
208	383+35.01	69.573 RT	350233.69	584008.19	675.788
209	383+35.00	63.573 RT	350239.69	584008.28	675.848

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CURB RAMP DETAILS - 66TH STREET	SHEET 112	E

NOTES:

CITY OF MILWAUKEE (WEST OF 68TH STREET) SIDEWALK WIDTH IS 5' TYP.

VILLAGE OF BROWN DEER (EAST OF 68TH STREET) SIDEWALK WIDTH IS 6' TYP.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD, AND SLOPES ADJUSTED TO MEET ADA COMPLIANCE.
NOTIFY ENGINEER IF ADA COMPLIANCE CANNOT BE OBTAINED.

SIDEWALK AND CURB AND GUTTER REPLACEMENT SHOULD BE TO THE NEAREST JOINT. LIMITS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

MATCH EXISTING SIDEWALK WIDTH AND CROSS SLOPE AT MATCH POINTS.

THE CONTRACTOR SHALL CONFIRM GRADES ON THE PLANS AND ENSURE POSITIVE DRAINAGE AT THE COMPLETION OF ALL WORK.

MATCH EXISTING CURB AND GUTTER ELEVATIONS.

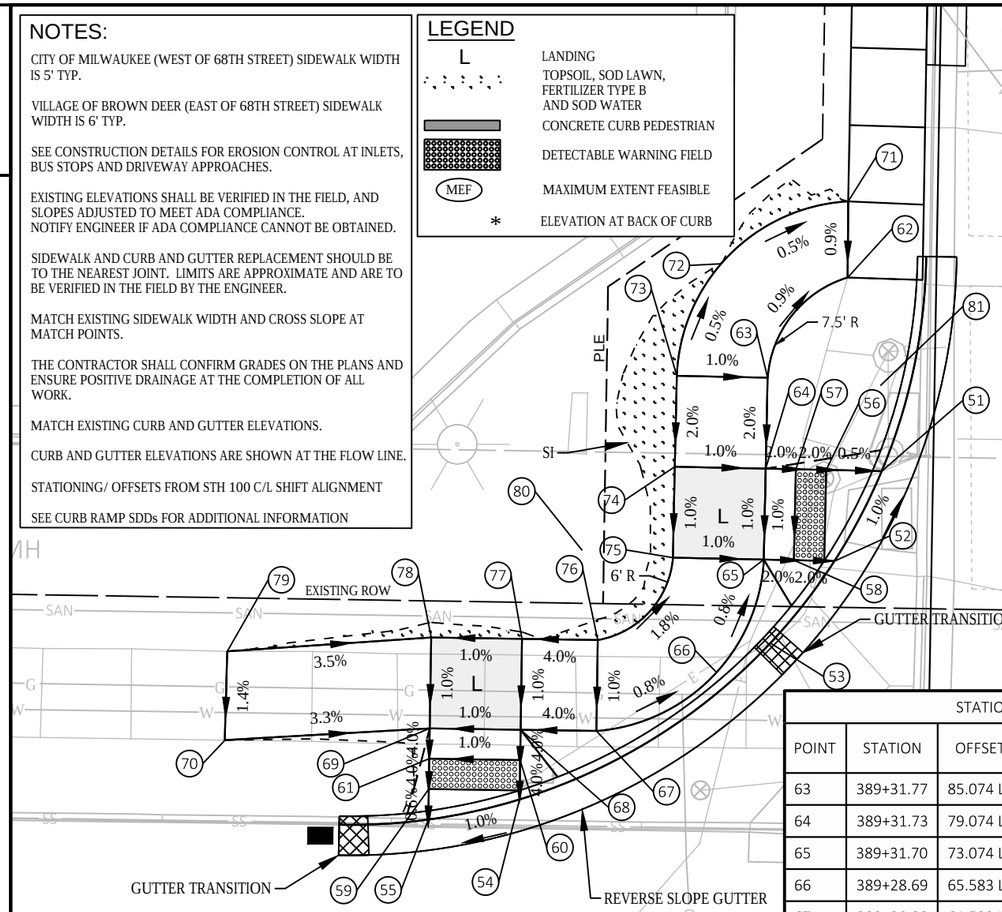
CURB AND GUTTER ELEVATIONS ARE SHOWN AT THE FLOW LINE.

STATIONING/ OFFSETS FROM STH 100 C/L SHIFT ALIGNMENT

SEE CURB RAMP SDDs FOR ADDITIONAL INFORMATION

LEGEND

L	LANDING
	TOPSOIL, SOD LAWN, FERTILIZER TYPE B AND SOD WATER
	CONCRETE CURB PEDESTRIAN
	DETECTABLE WARNING FIELD
MEF	MAXIMUM EXTENT FEASIBLE
*	ELEVATION AT BACK OF CURB



STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
101	390+14.25	67.311 LT	350359.89	584689.50	669.272
102	390+08.41	68.964 LT	350361.63	584683.69	669.278
103	390+01.33	72.682 LT	350365.46	584676.67	669.625
104	389+94.76	78.725 LT	350371.61	584670.19	669.875
105	390+14.41	68.859 LT	350361.43	584689.68	669.296
106	390+14.63	70.847 LT	350363.42	584689.94	669.423
107	390+08.67	71.535 LT	350364.20	584683.99	669.542
108	390+06.39	72.661 LT	350365.36	584681.72	669.611
109	389+98.23	78.706 LT	350371.53	584673.67	669.868
110	390+14.78	72.614 LT	350365.18	584690.12	669.521
111	390+08.78	72.647 LT	350365.31	584684.12	669.596
112	390+08.82	78.647 LT	350371.31	584684.24	669.656
113	390+22.90	72.596 LT	350365.04	584698.23	669.527
114	390+22.80	78.570 LT	350371.01	584698.23	669.672
115	390+14.81	78.614 LT	350371.18	584690.24	669.584

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
63	389+31.77	85.074 LT	350378.94	584607.31	671.593
64	389+31.73	79.074 LT	350372.94	584607.18	671.473
65	389+31.70	73.074 LT	350366.95	584607.05	671.533
66	389+28.69	65.583 LT	350359.50	584603.93	671.597
67	389+20.83	61.592 LT	350355.64	584596.00	671.667
68	389+15.83	61.592 LT	350355.72	584591.01	671.467
69	389+09.83	61.592 LT	350355.81	584585.01	671.407
70	388+96.34	60.606 LT	350355.04	584571.50	671.854
71	389+36.90	96.791 LT	350390.58	584612.62	671.564
72	389+28.58	92.546 LT	350386.46	584604.24	671.612
73	389+25.77	85.107 LT	350379.07	584601.31	671.653
74	389+25.73	79.107 LT	350373.07	584601.18	671.533

STATION & OFFSET TABLE

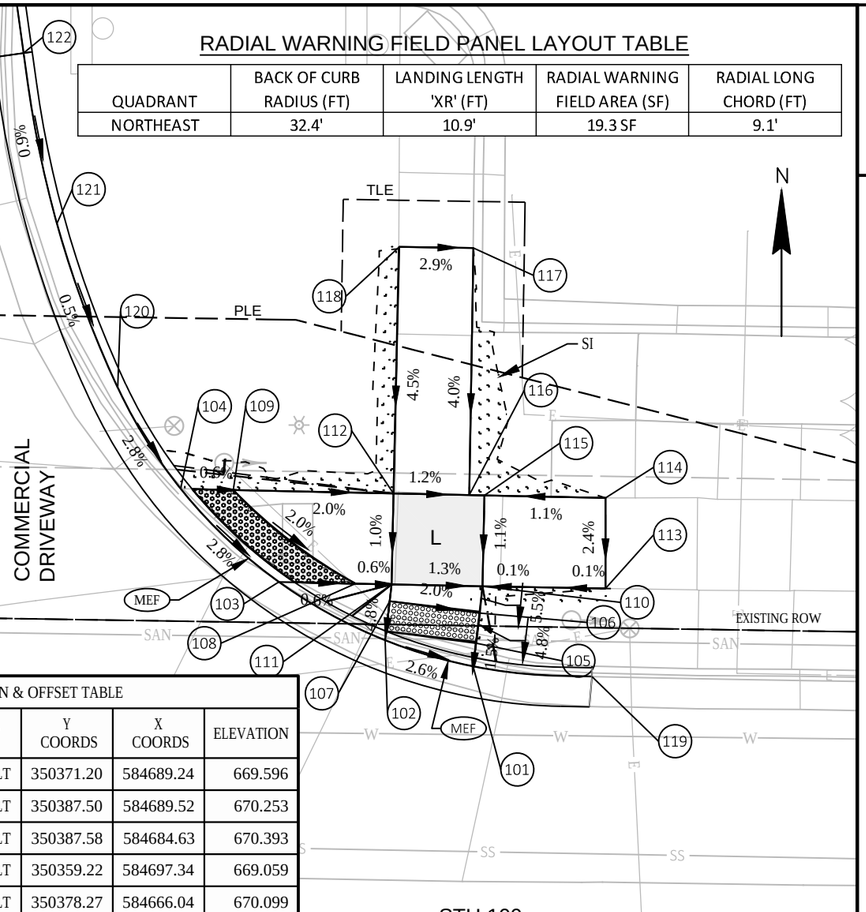
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
75	389+25.70	73.107 LT	350367.07	584601.05	671.593
76	389+20.83	67.592 LT	350361.64	584596.10	671.727
77	389+15.83	67.592 LT	350361.71	584591.10	671.527
78	389+09.83	67.592 LT	350361.81	584585.10	671.467
79	388+96.39	66.462 LT	350360.89	584571.64	671.935
80	389+19.71	73.487 LT	350367.55	584595.07	671.690
81	389+39.21	84.668 LT	350378.42	584614.74	671.517

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
51	389+39.40	79.031 LT	350372.78	584614.85	671.375
52	389+36.38	73.048 LT	350366.85	584611.73	671.444
53	389+32.23	67.568 LT	350361.43	584607.50	671.515
54	389+15.83	56.977 LT	350351.10	584590.93	671.301
55	389+09.83	55.556 LT	350349.77	584584.91	671.234
56	389+35.72	79.052 LT	350372.86	584611.17	671.393
57	389+33.72	79.063 LT	350372.90	584609.17	671.433
58	389+33.69	73.063 LT	350366.90	584609.04	671.493
59	389+09.83	57.591 LT	350351.81	584584.94	671.247
60	389+15.83	59.591 LT	350353.71	584590.97	671.387
61	389+09.83	59.591 LT	350353.81	584584.97	671.327
62	389+36.94	91.768 LT	350385.56	584612.58	671.517

RADIAL WARNING FIELD PANEL LAYOUT TABLE

QUADRANT	BACK OF CURB RADIUS (FT)	LANDING LENGTH 'XR' (FT)	RADIAL WARNING FIELD AREA (SF)	RADIAL LONG CHORD (FT)
NORTHEAST	32.4'	10.9'	19.3 SF	9.1'

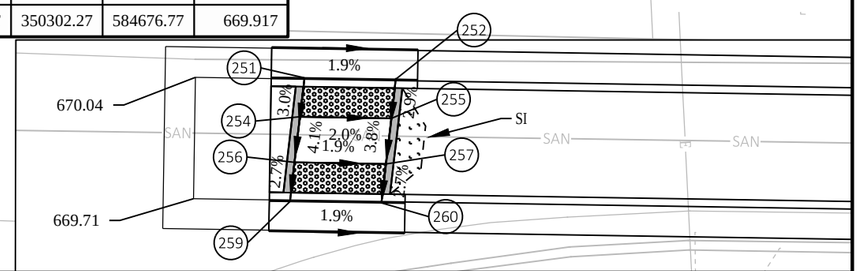


STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
116	390+13.81	78.620 LT	350371.20	584689.24	669.596
117	390+13.83	94.924 LT	350387.50	584689.52	670.253
118	390+08.94	94.919 LT	350387.58	584684.63	670.393
119	390+22.10	66.770 LT	350359.22	584697.34	669.059
120	389+90.51	85.319 LT	350378.27	584666.04	670.099
121	389+86.32	96.097 LT	350389.11	584662.02	670.158
122	389+83.94	107.316 LT	350400.36	584659.82	670.260

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
251	390+03.00	15.083 LT	350307.84	584677.43	670.091
252	390+09.02	15.083 LT	350307.75	584683.45	669.983
254	390+02.74	12.510 LT	350305.27	584677.13	670.040
255	390+08.77	12.500 LT	350305.17	584683.16	669.917
256	390+02.43	9.500 LT	350302.27	584676.77	669.917



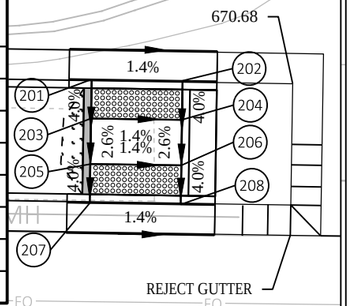
STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
257	390+08.46	9.490 LT	350302.16	584682.80	669.803
259	390+02.17	6.917 LT	350299.69	584676.47	669.853
260	390+08.20	6.917 LT	350299.60	584682.50	669.740

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CURB RAMP DETAILS - 64TH STREET	SHEET 113 E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021321_CD_CURB RAMPS-64TH.DWG
LAYOUT NAME - 01
PLOT DATE : 10/19/2020 11:50 AM
PLOT BY : SCHMIDT, JUDENE M
PLOT NAME :
PLOT SCALE : ##########

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
201	389+09.83	6.917 RT	350287.31	584583.93	671.007
202	389+15.83	6.917 RT	350287.22	584589.93	670.925
203	389+09.82	9.501 RT	350284.73	584583.88	671.433
204	389+15.83	9.488 RT	350284.64	584589.89	670.852
205	389+09.83	12.512 RT	350281.71	584583.84	670.853
206	389+15.83	12.500 RT	350281.63	584589.84	670.772
207	389+09.83	15.083 RT	350279.14	584583.80	670.768
208	389+15.83	15.083 RT	350279.05	584589.80	670.686



NOTES:

CITY OF MILWAUKEE (WEST OF 68TH STREET) SIDEWALK WIDTH IS 5' TYP.

VILLAGE OF BROWN DEER (EAST OF 68TH STREET) SIDEWALK WIDTH IS 6' TYP.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD, AND SLOPES ADJUSTED TO MEET ADA COMPLIANCE.
NOTIFY ENGINEER IF ADA COMPLIANCE CANNOT BE OBTAINED.

SIDEWALK AND CURB AND GUTTER REPLACEMENT SHOULD BE TO THE NEAREST JOINT. LIMITS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

MATCH EXISTING SIDEWALK WIDTH AND CROSS SLOPE AT MATCH POINTS.

THE CONTRACTOR SHALL CONFIRM GRADES ON THE PLANS AND ENSURE POSITIVE DRAINAGE AT THE COMPLETION OF ALL WORK.

MATCH EXISTING CURB AND GUTTER ELEVATIONS.

CURB AND GUTTER ELEVATIONS ARE SHOWN AT THE FLOW LINE.

STATIONING/ OFFSETS FROM STH 100 C/L SHIFT ALIGNMENT

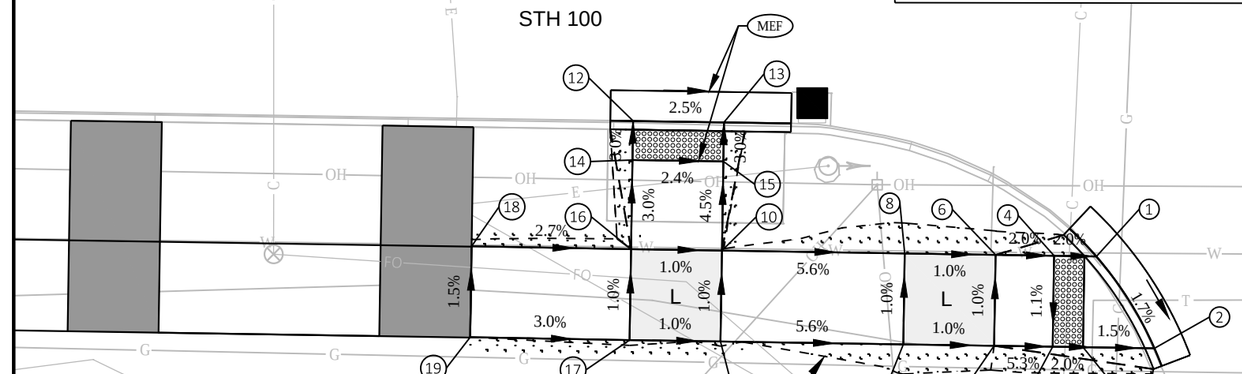
SEE CURB RAMP SDDs FOR ADDITIONAL INFORMATION

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
151	389+85.29	69.586 RT	350223.46	584658.39	669.061
152	389+89.24	63.583 RT	350229.40	584662.43	669.000
153	389+95.61	58.430 RT	350234.45	584668.89	668.931
154	390+01.90	55.922 RT	350236.86	584675.22	668.874
155	389+90.03	69.583 RT	350223.39	584663.13	669.084
156	390+01.52	59.745 RT	350233.05	584674.77	668.907
157	389+92.02	69.583 RT	350223.36	584665.13	669.124
158	389+92.03	63.583 RT	350229.36	584665.22	669.047
159	389+95.34	61.123 RT	350231.77	584668.57	668.977
160	390+01.32	61.736 RT	350231.06	584674.54	668.947
161	389+95.09	69.585 RT	350223.31	584668.19	669.155
162	389+95.09	63.582 RT	350229.31	584668.29	669.095
163	390+01.09	63.583 RT	350229.22	584674.29	669.035
164	390+01.09	69.583 RT	350223.22	584674.19	669.095
165	389+95.43	89.993 RT	350202.90	584668.21	669.418

STH 100

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
166	390+01.43	89.899 RT	350202.90	584674.21	669.478
167	389+95.52	95.993 RT	350196.90	584668.21	669.358
168	390+01.52	95.898 RT	350196.90	584674.21	669.418
169	389+95.60	100.495 RT	350192.39	584668.22	669.300
170	390+01.61	100.409 RT	350192.39	584674.23	669.328
171	389+95.64	103.169 RT	350190.39	584668.22	669.260
172	390+01.65	102.396 RT	350190.40	584674.23	669.288
173	390+01.70	105.285 RT	350188.10	584674.24	669.265

STH 100



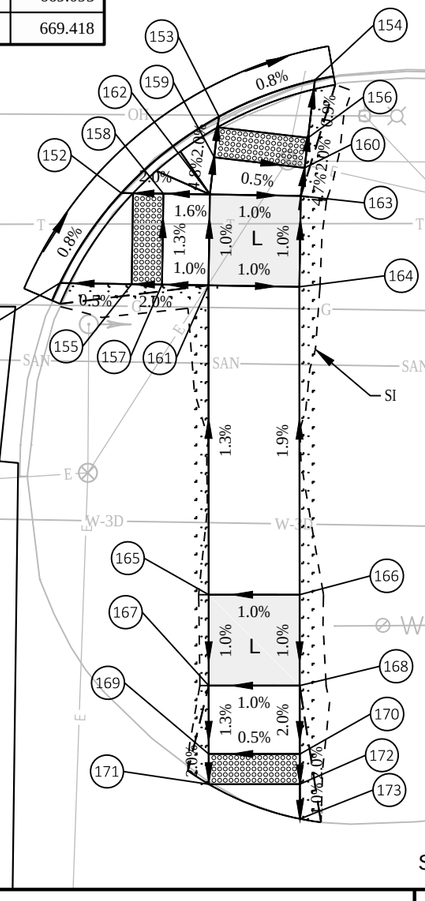
STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
1	389+40.55	63.583 RT	350230.17	584613.75	669.632
2	389+44.47	69.584 RT	350224.11	584617.58	669.498
3	389+39.76	69.584 RT	350224.18	584612.86	669.569
4	389+37.77	63.583 RT	350230.21	584610.96	669.676
5	389+37.75	69.583 RT	350224.21	584610.86	669.609
6	389+33.89	63.583 RT	350230.27	584607.10	669.753
7	389+33.89	69.583 RT	350224.27	584607.00	669.813
8	389+27.89	63.583 RT	350230.37	584601.10	669.813
9	389+27.89	69.583 RT	350224.37	584601.00	669.873
10	389+15.83	63.583 RT	350230.56	584589.04	670.493
11	389+15.83	69.583 RT	350224.56	584588.94	670.553
12	389+09.83	55.120 RT	350239.11	584583.17	670.314
13	389+15.83	55.117 RT	350239.02	584589.17	670.162
14	389+09.83	57.691 RT	350236.53	584583.13	670.377
15	389+15.83	57.702 RT	350236.43	584589.13	670.230

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
16	389+09.83	63.583 RT	350230.65	584583.04	670.553
17	389+09.83	69.583 RT	350224.65	584582.94	670.613
18	388+99.31	63.561 RT	350230.84	584572.52	670.837
19	388+99.31	69.561 RT	350224.84	584572.43	670.927

LEGEND

L	LANDING
	TOPSOIL, SOD LAWN, FERTILIZER TYPE B AND SOD WATER
	CONCRETE CURB PEDESTRIAN
	DETECTABLE WARNING FIELD
MEF	MAXIMUM EXTENT FEASIBLE
*	ELEVATION AT BACK OF CURB

64TH STREET



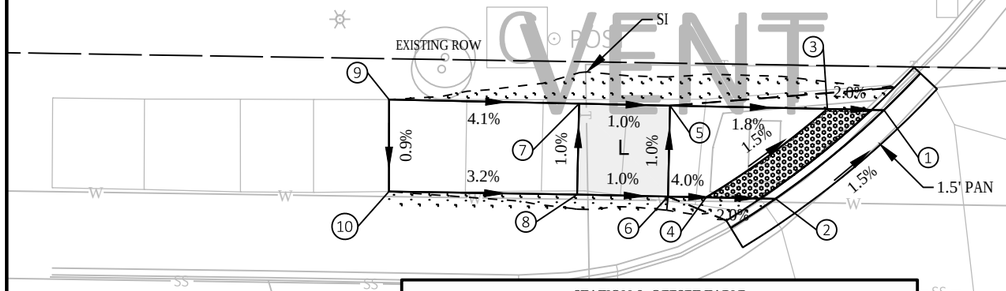
SERVICE ROAD

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CURB RAMP DETAILS - 64TH STREET	SHEET 114	E

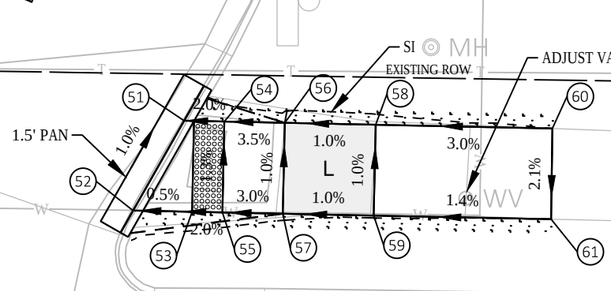
FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021322_CD_CURB RAMPS-64TH.DWG
LAYOUT NAME - 01
PLOT DATE : 10/19/2020 1:17 PM
PLOT BY : SCHMIDT, JUDENE M
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

RADIAL WARNING FIELD PANEL LAYOUT TABLE

QUADRANT	BACK OF CURB RADIUS (FT)	LANDING LENGTH 'XR'	RADIAL WARNING FIELD AREA (SF)	RADIAL LONG CHORD (FT)
NORTHWEST	59.5'	10.8'	19.3 SF	9.38'



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
1	395+96.84	67.117 LT	350350.54	585272.02	664.469
2	395+89.78	61.157 LT	350344.69	585264.86	664.613
3	395+93.10	67.138 LT	350350.62	585268.27	664.540
4	395+85.19	61.182 LT	350344.79	585260.27	664.689
5	395+82.71	67.196 LT	350350.84	585257.89	664.729
6	395+82.68	61.197 LT	350344.84	585257.76	664.789
7	395+76.71	67.230 LT	350350.97	585251.89	664.789
8	395+76.68	61.230 LT	350344.97	585251.76	664.849
9	395+64.17	67.301 LT	350351.24	585239.35	665.297
10	395+64.25	61.234 LT	350345.17	585239.34	665.241



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
51	396+29.24	66.934 LT	350349.85	585304.41	664.243
52	396+25.97	60.953 LT	350343.92	585301.04	664.314
53	396+29.87	60.931 LT	350343.83	585304.95	664.333
54	396+31.91	66.919 LT	350349.79	585307.08	664.293
55	396+31.87	60.919 LT	350343.79	585306.95	664.373
56	396+35.89	66.897 LT	350349.70	585311.06	664.433
57	396+35.86	60.897 LT	350343.71	585310.93	664.493
58	396+41.89	66.863 LT	350349.58	585317.06	664.493
59	396+41.86	60.863 LT	350343.58	585316.93	664.553
60	396+53.55	66.797 LT	350349.33	585328.72	664.848
61	396+53.57	60.816 LT	350343.35	585328.64	664.720

LEGEND

- L — LANDING
- TOPSOIL, SOD LAWN, FERTILIZER TYPE B AND SOD WATER
- CONCRETE CURB PEDESTRIAN
- DETECTABLE WARNING FIELD
- MEF — MAXIMUM EXTENT FEASIBLE
- * — ELEVATION AT BACK OF CURB

N

COMMERCIAL DRIVEWAY

STH 100

STH 100

396+00

NOTES:

CITY OF MILWAUKEE (WEST OF 68TH STREET) SIDEWALK WIDTH IS 5' TYP.

VILLAGE OF BROWN DEER (EAST OF 68TH STREET) SIDEWALK WIDTH IS 6' TYP.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD, AND SLOPES ADJUSTED TO MEET ADA COMPLIANCE. NOTIFY ENGINEER IF ADA COMPLIANCE CANNOT BE OBTAINED.

SIDEWALK AND CURB AND GUTTER REPLACEMENT SHOULD BE TO THE NEAREST JOINT. LIMITS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

MATCH EXISTING SIDEWALK WIDTH AND CROSS SLOPE AT MATCH POINTS.

THE CONTRACTOR SHALL CONFIRM GRADES ON THE PLANS AND ENSURE POSITIVE DRAINAGE AT THE COMPLETION OF ALL WORK.

MATCH EXISTING CURB AND GUTTER ELEVATIONS.

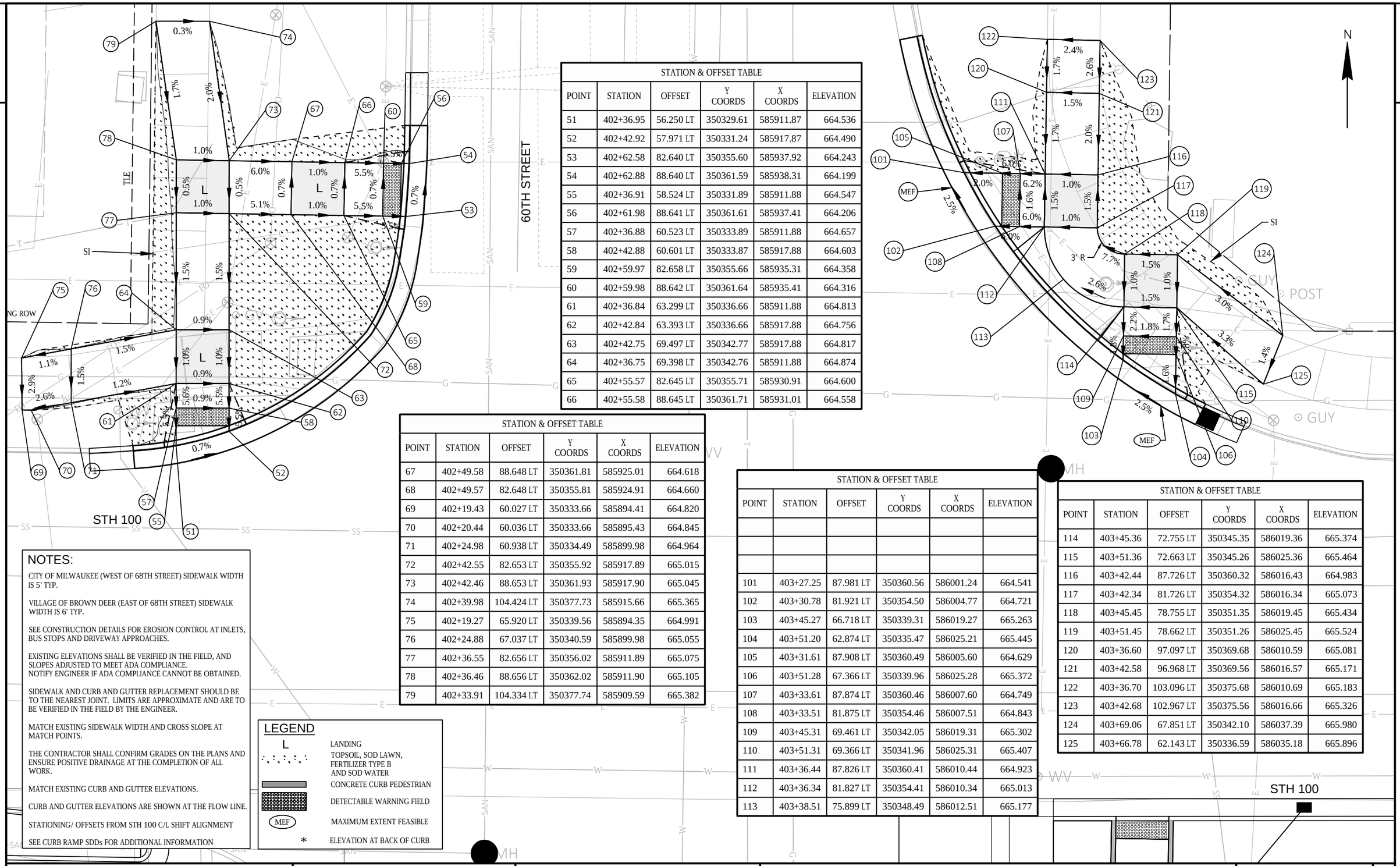
CURB AND GUTTER ELEVATIONS ARE SHOWN AT THE FLOW LINE.

STATIONING/ OFFSETS FROM STH 100 C/L SHIFT ALIGNMENT

SEE CURB RAMP SDDs FOR ADDITIONAL INFORMATION

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CURB RAMP DETAILS - COMMERCIAL DRIVEWAY STA 396	SHEET 115	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021322A_CD_CURB RAMPS-STA 396.DWG
LAYOUT NAME - 01
PLOT DATE : 10/19/2020 1:35 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : ##########
WISDOT/CADDS SHEET 42



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
51	402+36.95	56.250 LT	350329.61	585911.87	664.536
52	402+42.92	57.971 LT	350331.24	585917.87	664.490
53	402+62.58	82.640 LT	350355.60	585937.92	664.243
54	402+62.88	88.640 LT	350361.59	585938.31	664.199
55	402+36.91	58.524 LT	350331.89	585911.88	664.547
56	402+61.98	88.641 LT	350361.61	585937.41	664.206
57	402+36.88	60.523 LT	350333.89	585911.88	664.657
58	402+42.88	60.601 LT	350333.87	585917.88	664.603
59	402+59.97	82.658 LT	350355.66	585935.31	664.358
60	402+59.98	88.642 LT	350361.64	585935.41	664.316
61	402+36.84	63.299 LT	350336.66	585911.88	664.813
62	402+42.84	63.393 LT	350336.66	585917.88	664.756
63	402+42.75	69.497 LT	350342.77	585917.88	664.817
64	402+36.75	69.398 LT	350342.76	585911.88	664.874
65	402+55.57	82.645 LT	350355.71	585930.91	664.600
66	402+55.58	88.645 LT	350361.71	585931.01	664.558

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
67	402+49.58	88.648 LT	350361.81	585925.01	664.618
68	402+49.57	82.648 LT	350355.81	585924.91	664.660
69	402+19.43	60.027 LT	350333.66	585894.41	664.820
70	402+20.44	60.036 LT	350333.66	585895.43	664.845
71	402+24.98	60.938 LT	350334.49	585899.98	664.964
72	402+42.55	82.653 LT	350355.92	585917.89	665.015
73	402+42.46	88.653 LT	350361.93	585917.90	665.045
74	402+39.98	104.424 LT	350377.73	585915.66	665.365
75	402+19.27	65.920 LT	350339.56	585894.35	664.991
76	402+24.88	67.037 LT	350340.59	585899.98	665.055
77	402+36.55	82.656 LT	350356.02	585911.89	665.075
78	402+36.46	88.656 LT	350362.02	585911.90	665.105
79	402+33.91	104.334 LT	350377.74	585909.59	665.382

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
101	403+27.25	87.981 LT	350360.56	586001.24	664.541
102	403+30.78	81.921 LT	350354.50	586004.77	664.721
103	403+45.27	66.718 LT	350339.31	586019.27	665.263
104	403+51.20	62.874 LT	350335.47	586025.21	665.445
105	403+31.61	87.908 LT	350360.49	586005.60	664.629
106	403+51.28	67.366 LT	350339.96	586025.28	665.372
107	403+33.61	87.874 LT	350360.46	586007.60	664.749
108	403+33.51	81.875 LT	350354.46	586007.51	664.843
109	403+45.31	69.461 LT	350342.05	586019.31	665.302
110	403+51.31	69.366 LT	350341.96	586025.31	665.407
111	403+36.44	87.826 LT	350360.41	586010.44	664.923
112	403+36.34	81.827 LT	350354.41	586010.34	665.013
113	403+38.51	75.899 LT	350348.49	586012.51	665.177

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
114	403+45.36	72.755 LT	350345.35	586019.36	665.374
115	403+51.36	72.663 LT	350345.26	586025.36	665.464
116	403+42.44	87.726 LT	350360.32	586016.43	664.983
117	403+42.34	81.726 LT	350354.32	586016.34	665.073
118	403+45.45	78.755 LT	350351.35	586019.45	665.434
119	403+51.45	78.662 LT	350351.26	586025.45	665.524
120	403+36.60	97.097 LT	350369.68	586010.59	665.081
121	403+42.58	96.968 LT	350369.56	586016.57	665.171
122	403+36.70	103.096 LT	350375.68	586010.69	665.183
123	403+42.68	102.967 LT	350375.56	586016.66	665.326
124	403+69.06	67.851 LT	350342.10	586037.39	665.980
125	403+66.78	62.143 LT	350336.59	586035.18	665.896

NOTES:

CITY OF MILWAUKEE (WEST OF 68TH STREET) SIDEWALK WIDTH IS 5' TYP.

VILLAGE OF BROWN DEER (EAST OF 68TH STREET) SIDEWALK WIDTH IS 6' TYP.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD, AND SLOPES ADJUSTED TO MEET ADA COMPLIANCE.
NOTIFY ENGINEER IF ADA COMPLIANCE CANNOT BE OBTAINED.

SIDEWALK AND CURB AND GUTTER REPLACEMENT SHOULD BE TO THE NEAREST JOINT. LIMITS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

MATCH EXISTING SIDEWALK WIDTH AND CROSS SLOPE AT MATCH POINTS.

THE CONTRACTOR SHALL CONFIRM GRADES ON THE PLANS AND ENSURE POSITIVE DRAINAGE AT THE COMPLETION OF ALL WORK.

MATCH EXISTING CURB AND GUTTER ELEVATIONS.

CURB AND GUTTER ELEVATIONS ARE SHOWN AT THE FLOW LINE.

STATIONING/ OFFSETS FROM STH 100 C/L SHIFT ALIGNMENT

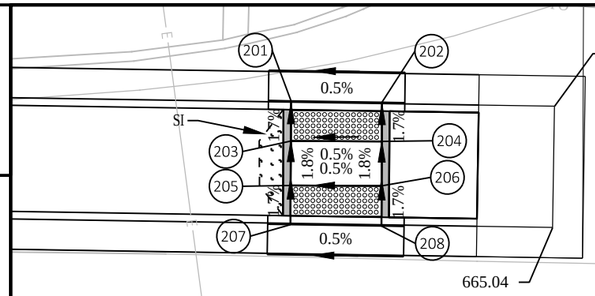
SEE CURB RAMP SDDs FOR ADDITIONAL INFORMATION

LEGEND

- L — LANDING
- TOPSOIL, SOD LAWN, FERTILIZER TYPE B AND SOD WATER
- CONCRETE CURB PEDESTRIAN
- DETECTABLE WARNING FIELD
- MEF — MAXIMUM EXTENT FEASIBLE
- * — ELEVATION AT BACK OF CURB

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CURB RAMP DETAILS - 60TH STREET	SHEET 116	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021323_CD_CURB RAMPS-60TH.DWG
LAYOUT NAME - 01
PLOT DATE : 10/19/2020 2:20 PM
PLOT BY : SCHMIDT, JUDENE M
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
201	402+37.66	6.917 RT	350266.44	585911.59	665.048
202	402+43.66	6.917 RT	350266.35	585917.59	665.081
203	402+37.69	9.569 RT	350263.79	585911.58	665.092
204	402+43.69	9.500 RT	350263.77	585917.58	665.124
205	402+37.73	12.500 RT	350260.86	585911.57	665.145
206	402+43.73	12.431 RT	350260.83	585917.57	665.177
207	402+37.75	15.083 RT	350258.28	585911.56	665.185
208	402+43.75	15.083 RT	350258.18	585917.56	665.218

STH 100

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
1	402+38.22	56.060 RT	350217.30	585911.38	664.665
2	402+44.25	58.144 RT	350215.12	585917.37	664.760
3	402+53.83	64.151 RT	350208.96	585926.86	664.929
4	402+59.45	70.060 RT	350202.97	585932.39	665.051
5	402+38.26	58.920 RT	350214.44	585911.37	664.678
6	402+52.90	64.166 RT	350208.96	585925.93	664.931
7	402+58.69	70.072 RT	350202.96	585931.63	665.054
8	402+38.28	60.869 RT	350212.49	585911.37	664.805
9	402+44.28	60.801 RT	350212.46	585917.37	664.889
10	402+49.72	64.217 RT	350208.96	585922.75	664.963
11	402+56.15	70.114 RT	350202.96	585929.09	665.080
12	402+38.33	64.403 RT	350208.95	585911.36	665.031
13	402+44.33	64.305 RT	350208.96	585917.36	665.058
14	402+44.40	70.304 RT	350202.96	585917.34	665.088
15	402+38.41	70.402 RT	350202.95	585911.34	665.088
16	402+23.65	64.641 RT	350208.95	585896.68	664.900
17	402+23.62	70.643 RT	350202.95	585896.55	664.808

NOTES:

CITY OF MILWAUKEE (WEST OF 68TH STREET) SIDEWALK WIDTH IS 5' TYP.

VILLAGE OF BROWN DEER (EAST OF 68TH STREET) SIDEWALK WIDTH IS 6' TYP.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD, AND SLOPES ADJUSTED TO MEET ADA COMPLIANCE.
NOTIFY ENGINEER IF ADA COMPLIANCE CANNOT BE OBTAINED.

SIDEWALK AND CURB AND GUTTER REPLACEMENT SHOULD BE TO THE NEAREST JOINT. LIMITS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

MATCH EXISTING SIDEWALK WIDTH AND CROSS SLOPE AT MATCH POINTS.

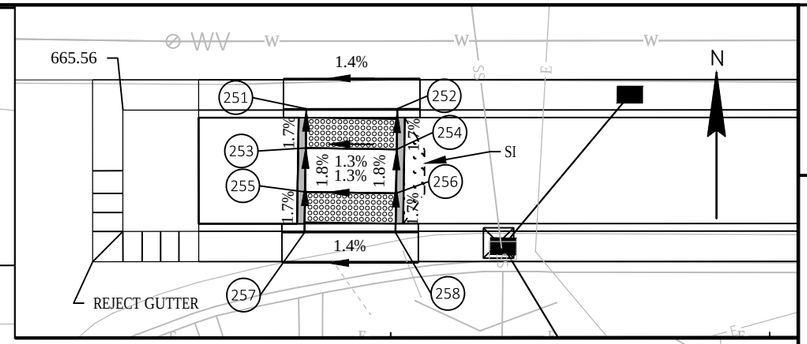
THE CONTRACTOR SHALL CONFIRM GRADES ON THE PLANS AND ENSURE POSITIVE DRAINAGE AT THE COMPLETION OF ALL WORK.

MATCH EXISTING CURB AND GUTTER ELEVATIONS.

CURB AND GUTTER ELEVATIONS ARE SHOWN AT THE FLOW LINE.

STATIONING/ OFFSETS FROM STH 100 C/L SHIFT ALIGNMENT

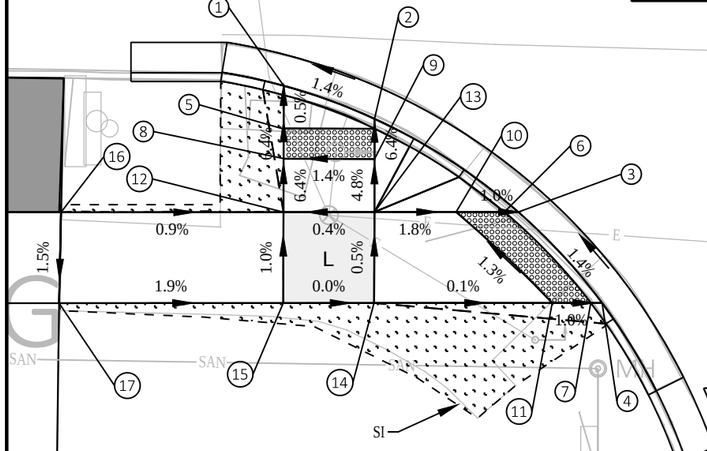
SEE CURB RAMP SDDs FOR ADDITIONAL INFORMATION



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
251	403+44.45	15.083 LT	350287.67	586018.47	665.859
252	403+50.45	15.083 LT	350287.68	586024.47	665.940
253	403+44.40	12.500 LT	350285.09	586018.43	665.816
254	403+50.41	12.405 LT	350285.00	586024.43	665.896
255	403+44.36	9.595 LT	350282.19	586018.39	665.765
256	403+50.36	9.500 LT	350282.09	586024.39	665.845
257	403+44.32	6.917 LT	350279.51	586018.35	665.721
258	403+50.32	6.917 LT	350279.51	586024.35	665.802

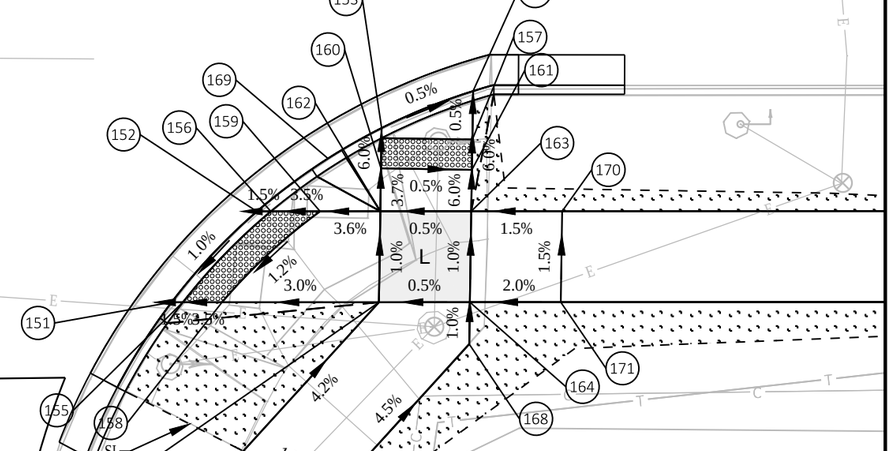
STH 100

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
170	403+55.20	63.584 RT	350209.01	586029.27	665.535
171	403+55.10	69.583 RT	350203.01	586029.17	665.625



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
151	403+29.40	69.583 RT	350203.00	586003.47	665.061
152	403+35.04	63.583 RT	350209.00	586009.11	665.142
153	403+43.28	58.074 RT	350214.52	586017.35	665.178
154	403+49.32	55.639 RT	350216.95	586023.39	665.143
155	403+30.19	69.544 RT	350203.04	586004.26	665.061
156	403+35.97	63.583 RT	350209.00	586010.04	665.156
157	403+49.27	58.848 RT	350213.74	586023.34	665.158
158	403+32.74	69.583 RT	350203.00	586006.81	665.162
159	403+39.22	63.583 RT	350209.00	586013.29	665.270
160	403+43.24	60.744 RT	350211.85	586017.31	665.307
161	403+49.24	60.849 RT	350211.74	586023.31	665.278
162	403+43.20	63.583 RT	350209.01	586017.26	665.412
163	403+49.20	63.583 RT	350209.01	586023.27	665.442
164	403+49.10	69.583 RT	350203.01	586023.17	665.502
165	403+43.10	69.583 RT	350203.01	586017.17	665.472
166	403+34.16	79.394 RT	350193.19	586008.24	666.034
167	403+39.91	82.402 RT	350190.19	586013.98	666.145
168	403+49.06	72.347 RT	350200.25	586023.13	665.530
169	403+39.73	60.087 RT	350212.50	586013.80	665.200

60TH STREET



RADIAL WARNING FIELD PANEL LAYOUT TABLE

QUADRANT	BACK OF CURB RADIUS (FT)	LANDING LENGTH 'XR'	RADIL WARNING FIELD AREA (SF)	RADIAL LONG CHORD (FT)
SOUTHWEST	39'	8.88'	17.7 SF	8.29'
SOUTHEAST	40'	9.06'	17.0 SF	8.37'

LEGEND

L	LANDING
	TOPSOIL, SOD LAWN, FERTILIZER TYPE B AND SOD WATER
	CONCRETE CURB PEDESTRIAN
	DETECTABLE WARNING FIELD
MEF	MAXIMUM EXTENT FEASIBLE
*	ELEVATION AT BACK OF CURB

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CURB RAMP DETAILS - 60TH STREET	SHEET 117	E

NOTES:

CITY OF MILWAUKEE (WEST OF 68TH STREET) SIDEWALK WIDTH IS 5' TYP.

VILLAGE OF BROWN DEER (EAST OF 68TH STREET) SIDEWALK WIDTH IS 6' TYP.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD, AND SLOPES ADJUSTED TO MEET ADA COMPLIANCE.
NOTIFY ENGINEER IF ADA COMPLIANCE CANNOT BE OBTAINED.

SIDEWALK AND CURB AND GUTTER REPLACEMENT SHOULD BE TO THE NEAREST JOINT. LIMITS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

MATCH EXISTING SIDEWALK WIDTH AND CROSS SLOPE AT MATCH POINTS.

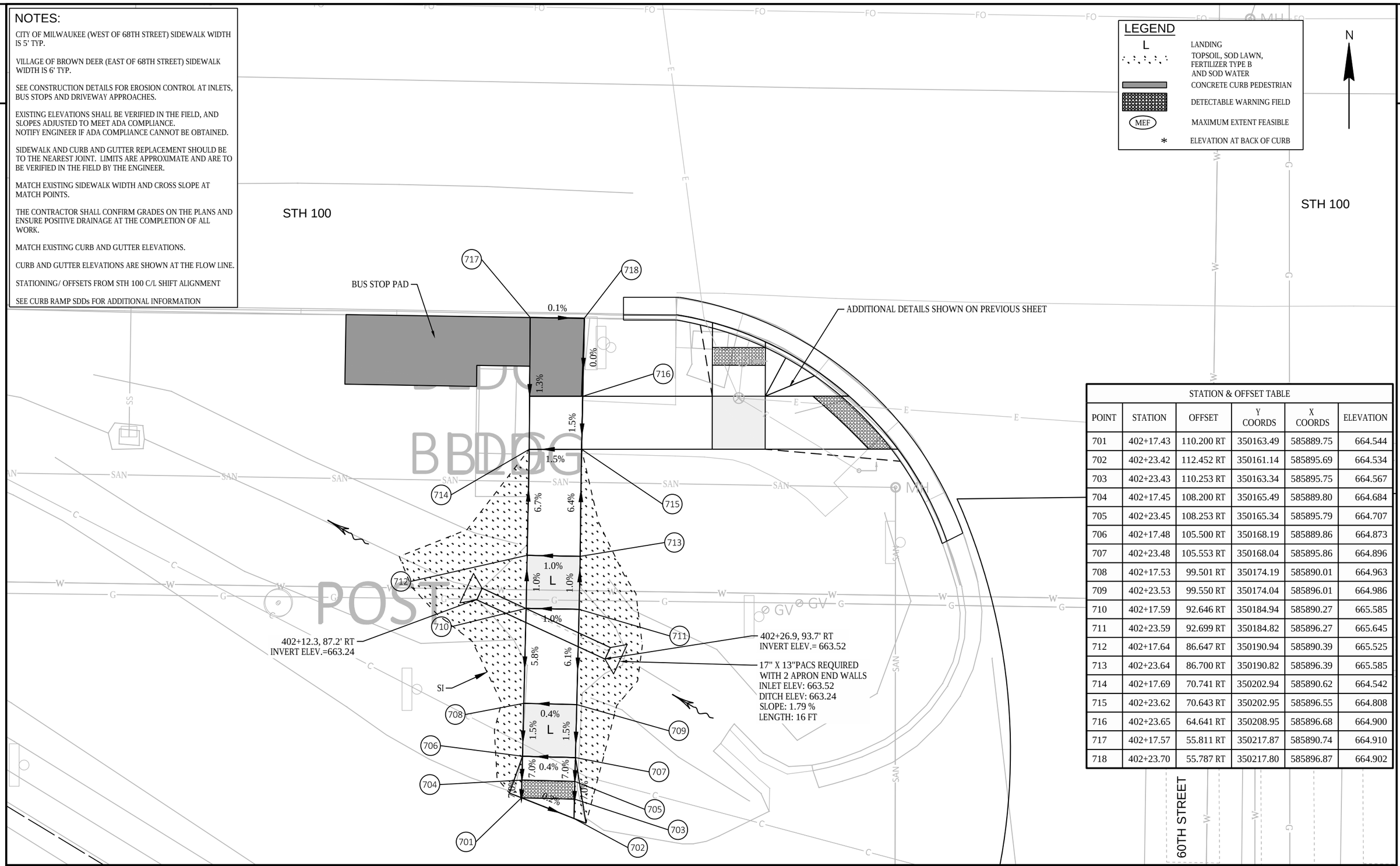
THE CONTRACTOR SHALL CONFIRM GRADES ON THE PLANS AND ENSURE POSITIVE DRAINAGE AT THE COMPLETION OF ALL WORK.

MATCH EXISTING CURB AND GUTTER ELEVATIONS.

CURB AND GUTTER ELEVATIONS ARE SHOWN AT THE FLOW LINE.

STATIONING/ OFFSETS FROM STH 100 C/L SHIFT ALIGNMENT

SEE CURB RAMP SDDs FOR ADDITIONAL INFORMATION



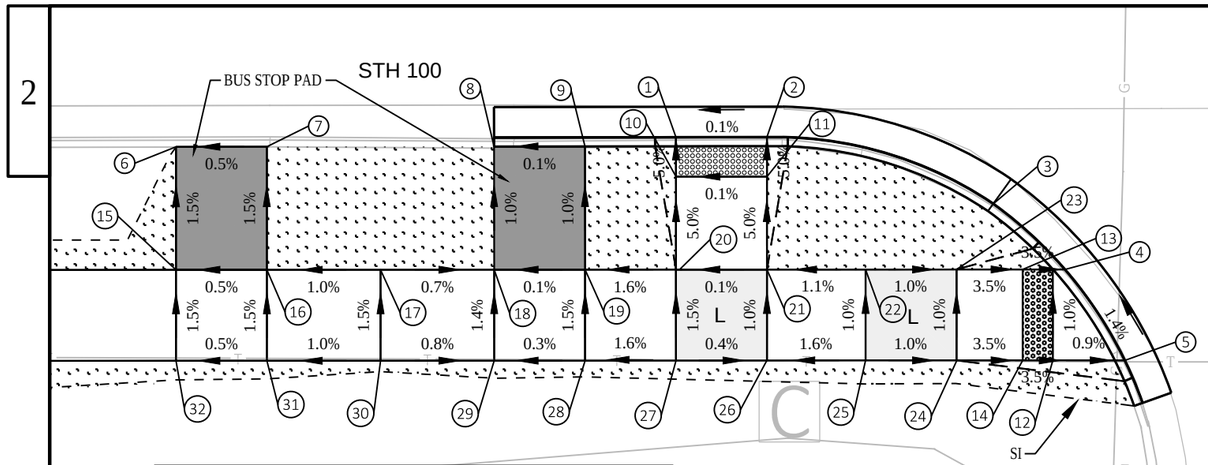
STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
701	402+17.43	110.200 RT	350163.49	585889.75	664.544
702	402+23.42	112.452 RT	350161.14	585895.69	664.534
703	402+23.43	110.253 RT	350163.34	585895.75	664.567
704	402+17.45	108.200 RT	350165.49	585889.80	664.684
705	402+23.45	108.253 RT	350165.34	585895.79	664.707
706	402+17.48	105.500 RT	350168.19	585889.86	664.873
707	402+23.48	105.553 RT	350168.04	585895.86	664.896
708	402+17.53	99.501 RT	350174.19	585890.01	664.963
709	402+23.53	99.550 RT	350174.04	585896.01	664.986
710	402+17.59	92.646 RT	350184.94	585890.27	665.585
711	402+23.59	92.699 RT	350184.82	585896.27	665.645
712	402+17.64	86.647 RT	350190.94	585890.39	665.525
713	402+23.64	86.700 RT	350190.82	585896.39	665.585
714	402+17.69	70.741 RT	350202.94	585890.62	664.542
715	402+23.62	70.643 RT	350202.95	585896.55	664.808
716	402+23.65	64.641 RT	350208.95	585896.68	664.900
717	402+17.57	55.811 RT	350217.87	585890.74	664.910
718	402+23.70	55.787 RT	350217.80	585896.87	664.902

BBDG
POST

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CURB RAMP DETAILS - 60TH STREET	SHEET 118	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021324B_CD_CURB RAMPS-60TH.DWG
LAYOUT NAME - 01
PLOT DATE : 10/28/2020 7:59 AM
PLOT BY : SCHMIDT, JUDENE M
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
1	414+01.15	54.841 RT	350218.27	587075.21	678.569
2	414+07.15	54.837 RT	350218.28	587081.21	678.571
3	414+22.09	59.245 RT	350213.88	587096.15	678.669
4	414+26.82	63.583 RT	350209.54	587100.89	678.768
5	414+30.77	69.584 RT	350203.54	587104.84	678.878
6	413+68.15	55.464 RT	350217.63	587042.22	678.697
7	413+74.15	55.457 RT	350217.64	587048.22	678.727
8	413+89.14	55.455 RT	350217.65	587063.20	678.792
9	413+95.14	55.450 RT	350217.66	587069.20	678.799
10	414+01.15	57.446 RT	350215.67	587075.21	678.672
11	414+07.15	57.446 RT	350215.67	587081.21	678.678
12	414+26.01	69.582 RT	350203.54	587100.08	678.836

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
13	414+24.02	63.583 RT	350209.54	587098.09	678.846
14	414+24.02	69.581 RT	350203.54	587098.09	678.905
15	413+68.15	63.583 RT	350209.51	587042.21	678.819
16	413+74.15	63.583 RT	350209.52	587048.21	678.849
17	413+81.65	63.585 RT	350209.52	587055.72	678.861
18	413+89.15	63.583 RT	350209.52	587063.22	678.874
19	413+95.15	63.583 RT	350209.53	587069.22	678.880
20	414+01.38	63.583 RT	350209.53	587075.45	678.979
21	414+07.15	63.583 RT	350209.53	587081.22	678.985
22	414+13.65	63.583 RT	350209.54	587087.72	679.058
23	414+19.65	63.583 RT	350209.54	587093.72	678.998
24	414+19.68	69.584 RT	350203.54	587093.75	679.057

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
25	414+13.65	69.581 RT	350203.54	587087.72	679.118
26	414+07.14	69.583 RT	350203.53	587081.21	679.045
27	414+01.14	69.583 RT	350203.53	587075.21	679.007
28	413+95.15	69.583 RT	350203.53	587069.22	678.970
29	413+89.15	69.583 RT	350203.52	587063.22	678.955
30	413+81.65	69.583 RT	350203.52	587055.72	678.947
31	413+74.15	69.583 RT	350203.52	587048.22	678.939
32	413+68.15	69.583 RT	350203.51	587042.22	678.909

LEGEND

L	LANDING
	TOPSOIL, SOD LAWN, FERTILIZER TYPE B AND SOD WATER
	CONCRETE CURB PEDESTRIAN
	DETECTABLE WARNING FIELD
MEF	MAXIMUM EXTENT FEASIBLE
*	ELEVATION AT BACK OF CURB

NOTES:

CITY OF MILWAUKEE (WEST OF 68TH STREET) SIDEWALK WIDTH IS 5' TYP.

VILLAGE OF BROWN DEER (EAST OF 68TH STREET) SIDEWALK WIDTH IS 6' TYP.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD, AND SLOPES ADJUSTED TO MEET ADA COMPLIANCE. NOTIFY ENGINEER IF ADA COMPLIANCE CANNOT BE OBTAINED.

SIDEWALK AND CURB AND GUTTER REPLACEMENT SHOULD BE TO THE NEAREST JOINT. LIMITS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

MATCH EXISTING SIDEWALK WIDTH AND CROSS SLOPE AT MATCH POINTS.

THE CONTRACTOR SHALL CONFIRM GRADES ON THE PLANS AND ENSURE POSITIVE DRAINAGE AT THE COMPLETION OF ALL WORK.

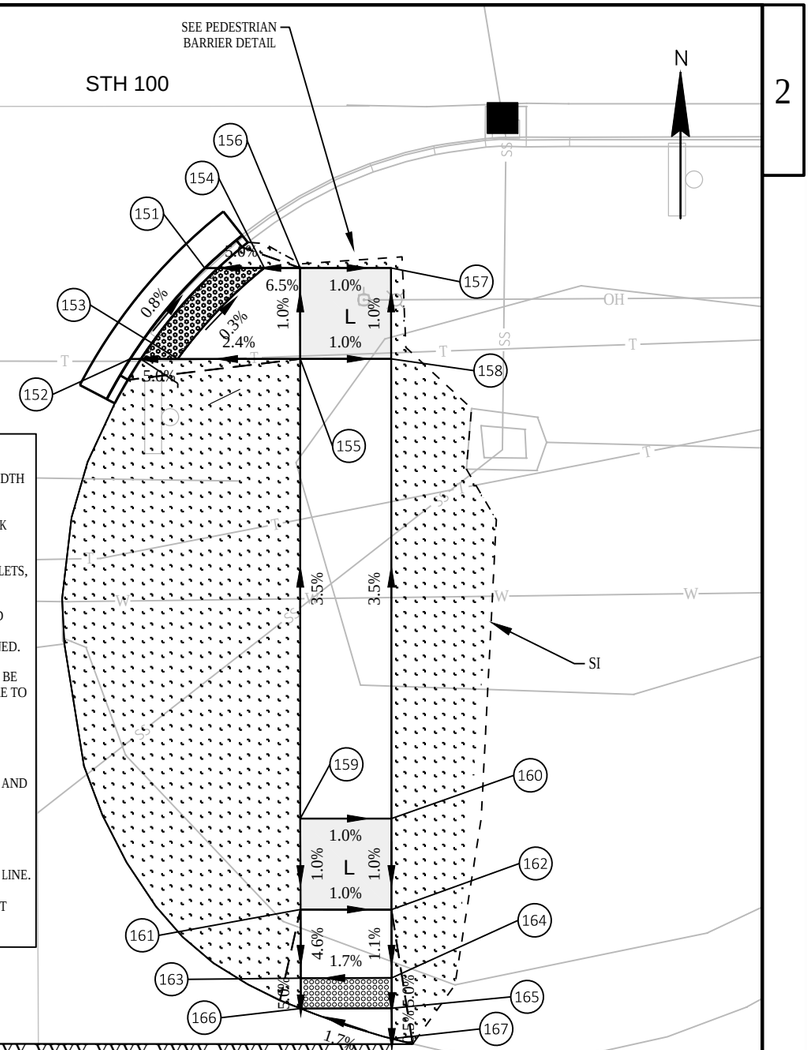
MATCH EXISTING CURB AND GUTTER ELEVATIONS.

CURB AND GUTTER ELEVATIONS ARE SHOWN AT THE FLOW LINE.

STATIONING/ OFFSETS FROM STH 100 C/L SHIFT ALIGNMENT

SEE CURB RAMP SDDs FOR ADDITIONAL INFORMATION

56TH STREET



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
151	414+80.51	63.583 RT	350209.57	587154.58	678.700
152	414+75.58	69.583 RT	350203.57	587149.65	678.763
153	414+78.73	69.584 RT	350203.57	587152.80	678.889
154	414+84.45	63.583 RT	350209.57	587158.52	678.866
155	414+86.81	69.583 RT	350203.57	587160.88	679.080
156	414+86.81	63.583 RT	350209.57	587160.88	679.020
157	414+92.81	63.583 RT	350209.57	587166.88	678.960
158	414+92.81	69.583 RT	350203.57	587166.88	679.020
159	414+86.80	99.914 RT	350173.24	587160.88	680.143
160	414+92.82	99.917 RT	350173.24	587166.90	680.083
161	414+86.81	105.914 RT	350167.24	587160.90	680.083
162	414+92.81	105.917 RT	350167.24	587166.90	680.023

RADIAL WARNING FIELD PANEL LAYOUT TABLE

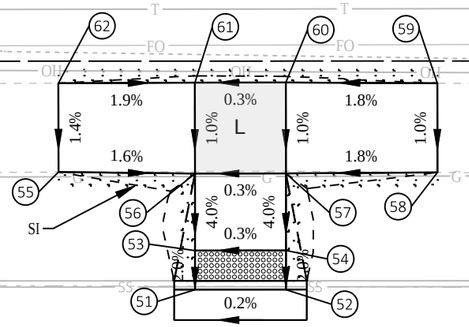
QUADRANT	BACK OF CURB RADIUS (FT)	LANDING LENGTH 'XR' (FT)	RADIAL WARNING FIELD AREA (SF)	RADIAL LONG CHORD (FT)
SOUTHEAST	33'	8.2'	16.0 SF	7.9'

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
163	414+86.83	110.445 RT	350162.71	587160.92	679.873
164	414+92.83	110.432 RT	350162.73	587166.92	679.972
165	414+92.83	112.432 RT	350160.73	587166.92	679.872
166	414+86.83	112.445 RT	350160.71	587160.92	679.773
167	414+92.84	114.438 RT	350158.72	587166.93	679.882

SERVICE ROAD (EAST)

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CURB RAMP DETAILS - 56TH STREET	SHEET 119	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021325_CD_CURB RAMPS-56TH.DWG
LAYOUT NAME - 01
PLOT DATE : 10/19/2020 3:36 PM
PLOT BY : SCHMIDT, JUDENE M
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42



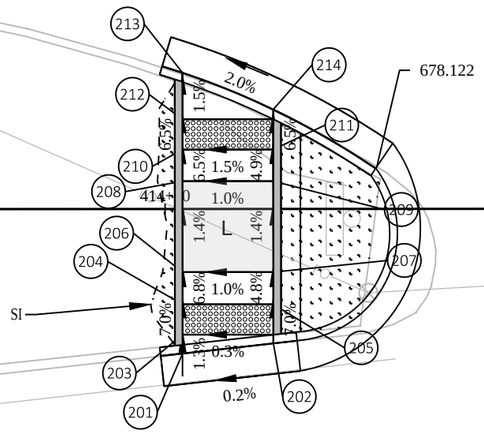
STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
51	414+01.15	54.919 LT	350328.03	587075.16	677.409
52	414+07.15	54.918 LT	350328.03	587081.16	677.422
53	414+01.15	57.503 LT	350330.62	587075.16	677.452
54	414+07.15	57.502 LT	350330.62	587081.16	677.471
55	413+92.15	62.683 LT	350335.79	587066.15	677.803
56	414+01.15	62.579 LT	350335.69	587075.15	677.655
57	414+07.15	62.585 LT	350335.70	587081.15	677.675
58	414+17.15	62.648 LT	350335.77	587091.15	677.855
59	414+17.14	68.533 LT	350341.65	587091.14	677.911
60	414+07.14	68.585 LT	350341.70	587081.14	677.735
61	414+01.14	68.569 LT	350341.68	587075.14	677.715
62	413+92.14	68.544 LT	350341.65	587066.14	677.884

STH 100

N

LEGEND

L	LANDING
	TOPSOIL, SOD LAWN, FERTILIZER TYPE B AND SOD WATER
	CONCRETE CURB PEDESTRIAN
	DETECTABLE WARNING FIELD
MEF	MAXIMUM EXTENT FEASIBLE
*	ELEVATION AT BACK OF CURB



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
201	414+01.15	9.543 RT	350263.57	587075.19	678.525
202	414+07.15	8.876 RT	350264.24	587081.19	678.536
203	414+01.15	8.289 RT	350264.82	587075.19	678.509
204	414+01.15	6.289 RT	350266.82	587075.19	678.369
205	414+07.15	6.289 RT	350266.83	587081.19	678.387
206	414+01.15	4.161 RT	350268.95	587075.19	678.225
207	414+07.15	4.161 RT	350268.95	587081.19	678.285
208	414+01.15	1.839 LT	350274.95	587075.18	678.141
209	414+07.15	1.839 LT	350274.95	587081.18	678.201
210	414+01.15	3.924 LT	350277.04	587075.18	678.005
211	414+07.15	3.924 LT	350277.04	587081.18	678.098
212	414+01.15	5.924 LT	350279.04	587075.18	677.875
213	414+01.15	9.004 LT	350282.12	587075.18	677.829
214	414+07.15	6.572 LT	350279.69	587081.18	677.966

56TH STREET

415+00

NOTES:

CITY OF MILWAUKEE (WEST OF 68TH STREET) SIDEWALK WIDTH IS 5' TYP.

VILLAGE OF BROWN DEER (EAST OF 68TH STREET) SIDEWALK WIDTH IS 6' TYP.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD, AND SLOPES ADJUSTED TO MEET ADA COMPLIANCE. NOTIFY ENGINEER IF ADA COMPLIANCE CANNOT BE OBTAINED.

SIDEWALK AND CURB AND GUTTER REPLACEMENT SHOULD BE TO THE NEAREST JOINT. LIMITS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

MATCH EXISTING SIDEWALK WIDTH AND CROSS SLOPE AT MATCH POINTS.

THE CONTRACTOR SHALL CONFIRM GRADES ON THE PLANS AND ENSURE POSITIVE DRAINAGE AT THE COMPLETION OF ALL WORK.

MATCH EXISTING CURB AND GUTTER ELEVATIONS.

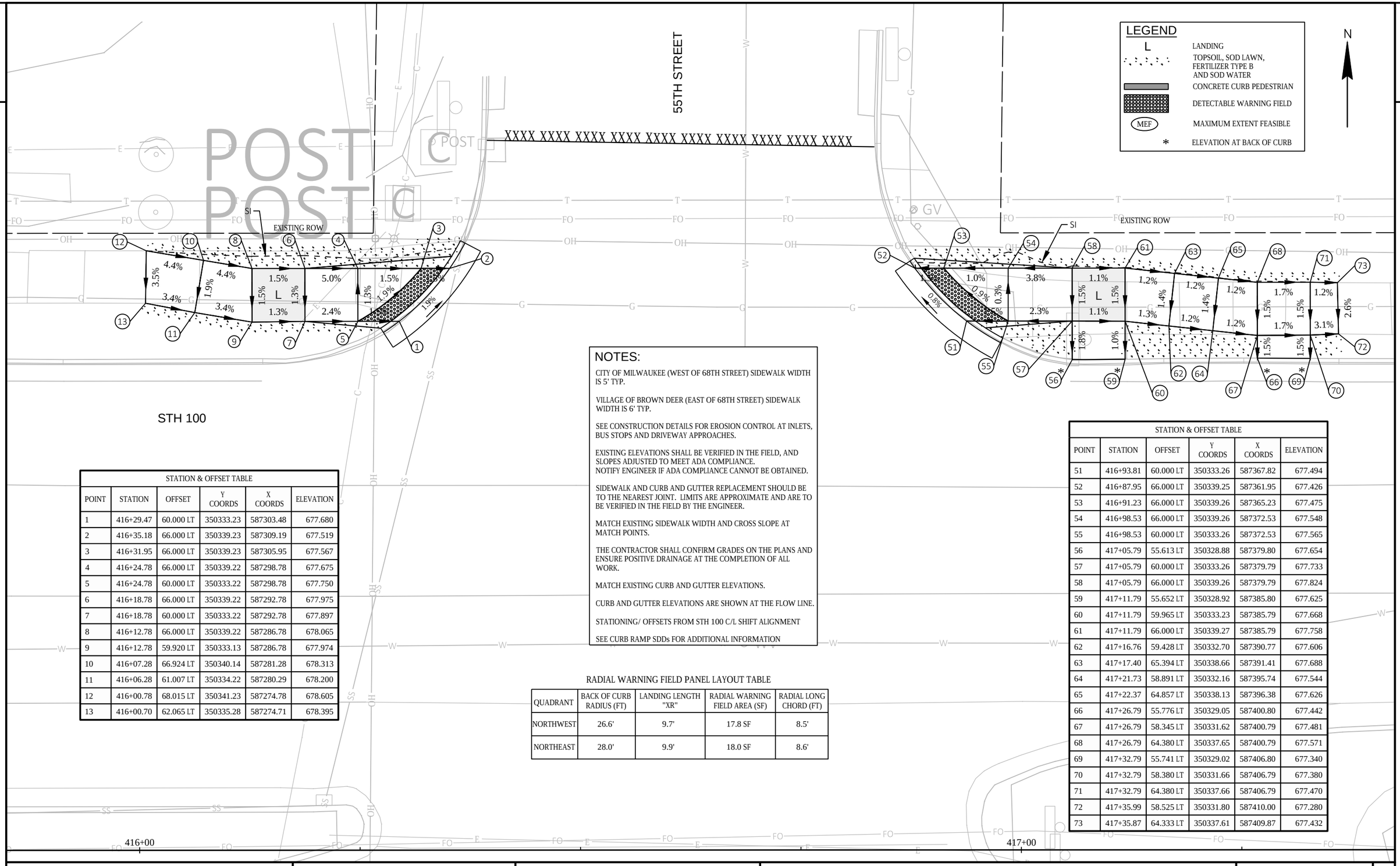
CURB AND GUTTER ELEVATIONS ARE SHOWN AT THE FLOW LINE.

STATIONING/ OFFSETS FROM STH 100 C/L SHIFT ALIGNMENT

SEE CURB RAMP SDDs FOR ADDITIONAL INFORMATION

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CURB RAMP DETAILS - 56TH STREET	SHEET 120	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021325A_CD_CURB RAMPS-56TH.DWG
LAYOUT NAME - 01
PLOT DATE : 10/19/2020 3:47 PM
PLOT BY : SCHMIDT, JUDENE M
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42



NOTES:

CITY OF MILWAUKEE (WEST OF 68TH STREET) SIDEWALK WIDTH IS 5' TYP.

VILLAGE OF BROWN DEER (EAST OF 68TH STREET) SIDEWALK WIDTH IS 6' TYP.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD, AND SLOPES ADJUSTED TO MEET ADA COMPLIANCE.
NOTIFY ENGINEER IF ADA COMPLIANCE CANNOT BE OBTAINED.

SIDEWALK AND CURB AND GUTTER REPLACEMENT SHOULD BE TO THE NEAREST JOINT. LIMITS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

MATCH EXISTING SIDEWALK WIDTH AND CROSS SLOPE AT MATCH POINTS.

THE CONTRACTOR SHALL CONFIRM GRADES ON THE PLANS AND ENSURE POSITIVE DRAINAGE AT THE COMPLETION OF ALL WORK.

MATCH EXISTING CURB AND GUTTER ELEVATIONS.

CURB AND GUTTER ELEVATIONS ARE SHOWN AT THE FLOW LINE.

STATIONING/ OFFSETS FROM STH 100 C/L SHIFT ALIGNMENT

SEE CURB RAMP SDDs FOR ADDITIONAL INFORMATION

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
1	416+29.47	60.000 LT	350333.23	587303.48	677.680
2	416+35.18	66.000 LT	350339.23	587309.19	677.519
3	416+31.95	66.000 LT	350339.23	587305.95	677.567
4	416+24.78	66.000 LT	350339.22	587298.78	677.675
5	416+24.78	60.000 LT	350333.22	587298.78	677.750
6	416+18.78	66.000 LT	350339.22	587292.78	677.975
7	416+18.78	60.000 LT	350333.22	587292.78	677.897
8	416+12.78	66.000 LT	350339.22	587286.78	678.065
9	416+12.78	59.920 LT	350333.13	587286.78	677.974
10	416+07.28	66.924 LT	350340.14	587281.28	678.313
11	416+06.28	61.007 LT	350334.22	587280.29	678.200
12	416+00.78	68.015 LT	350341.23	587274.78	678.605
13	416+00.70	62.065 LT	350335.28	587274.71	678.395

RADIAL WARNING FIELD PANEL LAYOUT TABLE

QUADRANT	BACK OF CURB RADIUS (FT)	LANDING LENGTH "XR"	RADIAL WARNING FIELD AREA (SF)	RADIAL LONG CHORD (FT)
NORTHWEST	26.6'	9.7'	17.8 SF	8.5'
NORTHEAST	28.0'	9.9'	18.0 SF	8.6'

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
51	416+93.81	60.000 LT	350333.26	587367.82	677.494
52	416+87.95	66.000 LT	350339.25	587361.95	677.426
53	416+91.23	66.000 LT	350339.26	587365.23	677.475
54	416+98.53	66.000 LT	350339.26	587372.53	677.548
55	416+98.53	60.000 LT	350333.26	587372.53	677.565
56	417+05.79	55.613 LT	350328.88	587379.80	677.654
57	417+05.79	60.000 LT	350333.26	587379.79	677.733
58	417+05.79	66.000 LT	350339.26	587379.79	677.824
59	417+11.79	55.652 LT	350328.92	587385.80	677.625
60	417+11.79	59.965 LT	350333.23	587385.79	677.668
61	417+11.79	66.000 LT	350339.27	587385.79	677.758
62	417+16.76	59.428 LT	350332.70	587390.77	677.606
63	417+17.40	65.394 LT	350338.66	587391.41	677.688
64	417+21.73	58.891 LT	350332.16	587395.74	677.544
65	417+22.37	64.857 LT	350338.13	587396.38	677.626
66	417+26.79	55.776 LT	350329.05	587400.80	677.442
67	417+26.79	58.345 LT	350331.62	587400.79	677.481
68	417+26.79	64.380 LT	350337.65	587400.79	677.571
69	417+32.79	55.741 LT	350329.02	587406.80	677.340
70	417+32.79	58.380 LT	350331.66	587406.79	677.380
71	417+32.79	64.380 LT	350337.66	587406.79	677.470
72	417+35.99	58.525 LT	350331.80	587410.00	677.280
73	417+35.87	64.333 LT	350337.61	587409.87	677.432

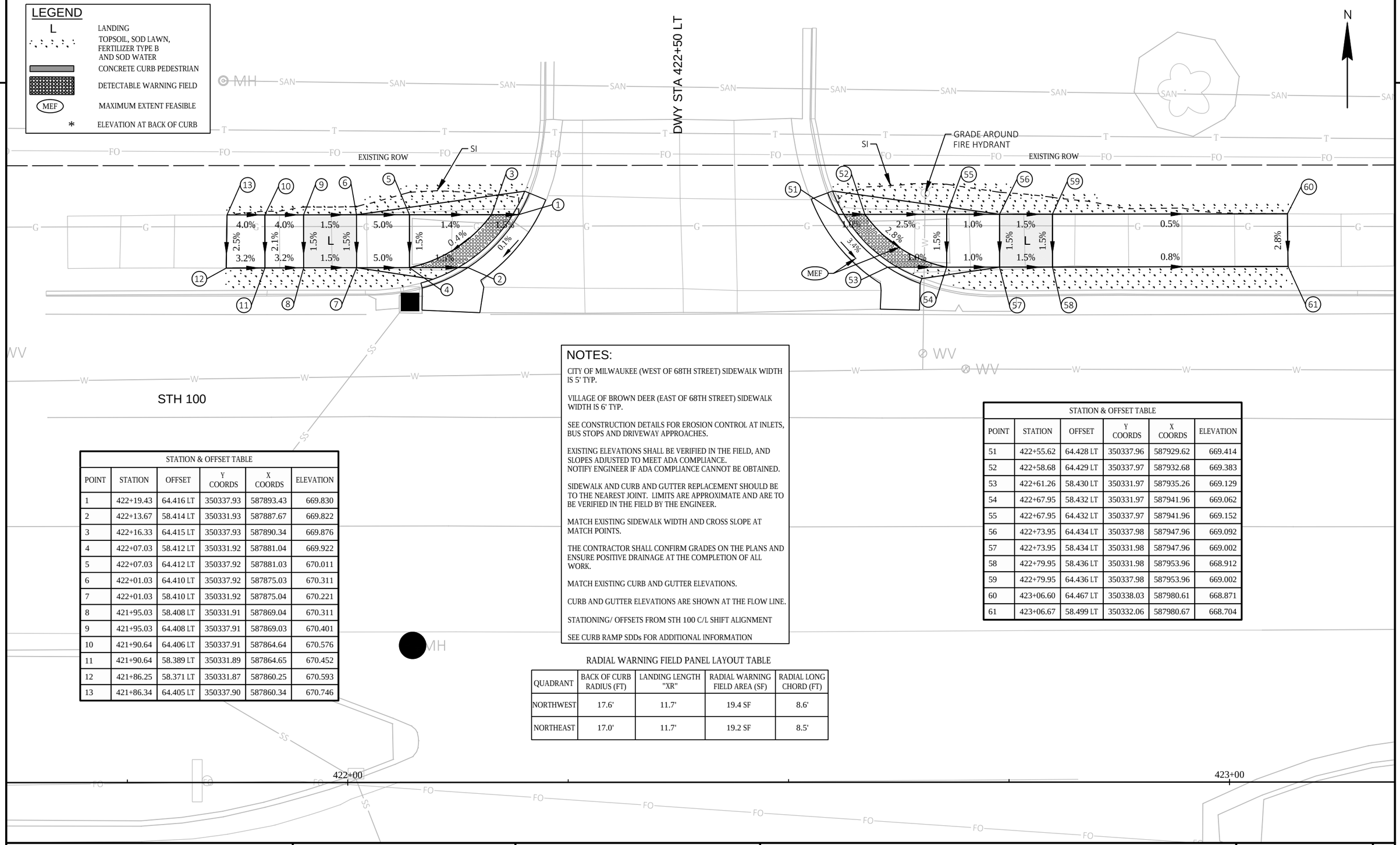
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CURB RAMP DETAILS - 55TH STREET	SHEET 121	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021326_CD_CURB RAMPS-55TH.DWG
LAYOUT NAME - 01
PLOT DATE : 10/19/2020 4:02 PM
PLOT BY : SCHMIDT, JUDENE M
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

2

LEGEND

- L — LANDING
- TOPSOIL, SOD LAWN, FERTILIZER TYPE B AND SOD WATER
- CONCRETE CURB PEDESTRIAN
- DETECTABLE WARNING FIELD
- MEF — MAXIMUM EXTENT FEASIBLE
- * — ELEVATION AT BACK OF CURB



NOTES:

CITY OF MILWAUKEE (WEST OF 68TH STREET) SIDEWALK WIDTH IS 5' TYP.

VILLAGE OF BROWN DEER (EAST OF 68TH STREET) SIDEWALK WIDTH IS 6' TYP.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD, AND SLOPES ADJUSTED TO MEET ADA COMPLIANCE.
NOTIFY ENGINEER IF ADA COMPLIANCE CANNOT BE OBTAINED.

SIDEWALK AND CURB AND GUTTER REPLACEMENT SHOULD BE TO THE NEAREST JOINT. LIMITS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

MATCH EXISTING SIDEWALK WIDTH AND CROSS SLOPE AT MATCH POINTS.

THE CONTRACTOR SHALL CONFIRM GRADES ON THE PLANS AND ENSURE POSITIVE DRAINAGE AT THE COMPLETION OF ALL WORK.

MATCH EXISTING CURB AND GUTTER ELEVATIONS.

CURB AND GUTTER ELEVATIONS ARE SHOWN AT THE FLOW LINE.

STATIONING/ OFFSETS FROM STH 100 C/L SHIFT ALIGNMENT

SEE CURB RAMP SDDs FOR ADDITIONAL INFORMATION

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
1	422+19.43	64.416 LT	350337.93	587893.43	669.830
2	422+13.67	58.414 LT	350331.93	587887.67	669.822
3	422+16.33	64.415 LT	350337.93	587890.34	669.876
4	422+07.03	58.412 LT	350331.92	587881.04	669.922
5	422+07.03	64.412 LT	350337.92	587881.03	670.011
6	422+01.03	64.410 LT	350337.92	587875.03	670.311
7	422+01.03	58.410 LT	350331.92	587875.04	670.221
8	421+95.03	58.408 LT	350331.91	587869.04	670.311
9	421+95.03	64.408 LT	350337.91	587869.03	670.401
10	421+90.64	64.406 LT	350337.91	587864.64	670.576
11	421+90.64	58.389 LT	350331.89	587864.65	670.452
12	421+86.25	58.371 LT	350331.87	587860.25	670.593
13	421+86.34	64.405 LT	350337.90	587860.34	670.746

RADIAL WARNING FIELD PANEL LAYOUT TABLE

QUADRANT	BACK OF CURB RADIUS (FT)	LANDING LENGTH "XR"	RADIAL WARNING FIELD AREA (SF)	RADIAL LONG CHORD (FT)
NORTHWEST	17.6'	11.7'	19.4 SF	8.6'
NORTHEAST	17.0'	11.7'	19.2 SF	8.5'

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
51	422+55.62	64.428 LT	350337.96	587929.62	669.414
52	422+58.68	64.429 LT	350337.97	587932.68	669.383
53	422+61.26	58.430 LT	350331.97	587935.26	669.129
54	422+67.95	58.432 LT	350331.97	587941.96	669.062
55	422+67.95	64.432 LT	350337.97	587941.96	669.152
56	422+73.95	64.434 LT	350337.98	587947.96	669.092
57	422+73.95	58.434 LT	350331.98	587947.96	669.002
58	422+79.95	58.436 LT	350331.98	587953.96	668.912
59	422+79.95	64.436 LT	350337.98	587953.96	669.002
60	423+06.60	64.467 LT	350338.03	587980.61	668.871
61	423+06.67	58.499 LT	350332.06	587980.67	668.704

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CURB RAMP DETAILS - DWY STA 422+50 LT	SHEET 122	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021326A_CD_CURB RAMPS-STA 422.DWG
LAYOUT NAME - 01
PLOT DATE : 10/19/2020 4:25 PM
PLOT BY : SCHMIDT, JUDENE M
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

NOTES:

CITY OF MILWAUKEE (WEST OF 68TH STREET) SIDEWALK WIDTH IS 5' TYP.

VILLAGE OF BROWN DEER (EAST OF 68TH STREET) SIDEWALK WIDTH IS 6' TYP.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD, AND SLOPES ADJUSTED TO MEET ADA COMPLIANCE.
NOTIFY ENGINEER IF ADA COMPLIANCE CANNOT BE OBTAINED.

SIDEWALK AND CURB AND GUTTER REPLACEMENT SHOULD BE TO THE NEAREST JOINT. LIMITS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

MATCH EXISTING SIDEWALK WIDTH AND CROSS SLOPE AT MATCH POINTS.

THE CONTRACTOR SHALL CONFIRM GRADES ON THE PLANS AND ENSURE POSITIVE DRAINAGE AT THE COMPLETION OF ALL WORK.

MATCH EXISTING CURB AND GUTTER ELEVATIONS.

CURB AND GUTTER ELEVATIONS ARE SHOWN AT THE FLOW LINE.

STATIONING/ OFFSETS FROM STH 100 C/L SHIFT ALIGNMENT

SEE CURB RAMP SDDs FOR ADDITIONAL INFORMATION

LEGEND

- L — LANDING
- TOPSOIL, SOD LAWN, FERTILIZER TYPE B AND SOD WATER
- CONCRETE CURB PEDESTRIAN
- DETECTABLE WARNING FIELD
- MEF — MAXIMUM EXTENT FEASIBLE
- * — ELEVATION AT BACK OF CURB

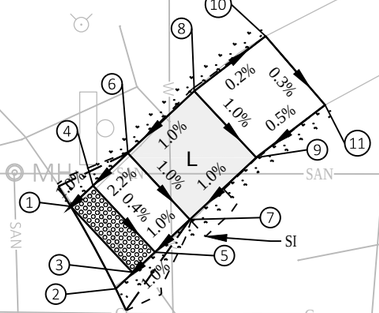
N

STH 100

FRONTAGE ROAD

EXISTING ROW

EXISTING ROW



STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
1	425+88.93	84.415 RT	350189.28	588263.01	666.537
2	425+91.90	89.850 RT	350183.85	588265.98	666.523
3	425+93.07	88.763 RT	350184.94	588267.15	666.516
4	425+90.39	83.050 RT	350190.65	588264.47	666.557
5	425+94.49	87.436 RT	350186.27	588268.57	666.536
6	425+92.69	80.901 RT	350192.80	588266.77	666.627
7	425+96.79	85.284 RT	350188.42	588270.87	666.567
8	425+97.08	76.805 RT	350196.90	588271.15	666.687
9	426+01.18	81.190 RT	350192.52	588275.25	666.627
10	426+01.79	73.188 RT	350200.52	588275.86	666.675
11	426+05.72	77.732 RT	350195.98	588279.79	666.658

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CURB RAMP DETAILS - 426+00 RT	SHEET 123	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021326B_CD_CURB RAMPS-STA 426.DWG
LAYOUT NAME - 01

PLOT DATE : 10/20/2020 9:40 AM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

NOTES:

CITY OF MILWAUKEE (WEST OF 68TH STREET) SIDEWALK WIDTH IS 5' TYP.

VILLAGE OF BROWN DEER (EAST OF 68TH STREET) SIDEWALK WIDTH IS 6' TYP.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD, AND SLOPES ADJUSTED TO MEET ADA COMPLIANCE. NOTIFY ENGINEER IF ADA COMPLIANCE CANNOT BE OBTAINED.

SIDEWALK AND CURB AND GUTTER REPLACEMENT SHOULD BE TO THE NEAREST JOINT. LIMITS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

MATCH EXISTING SIDEWALK WIDTH AND CROSS SLOPE AT MATCH POINTS.

THE CONTRACTOR SHALL CONFIRM GRADES ON THE PLANS AND ENSURE POSITIVE DRAINAGE AT THE COMPLETION OF ALL WORK.

MATCH EXISTING CURB AND GUTTER ELEVATIONS.

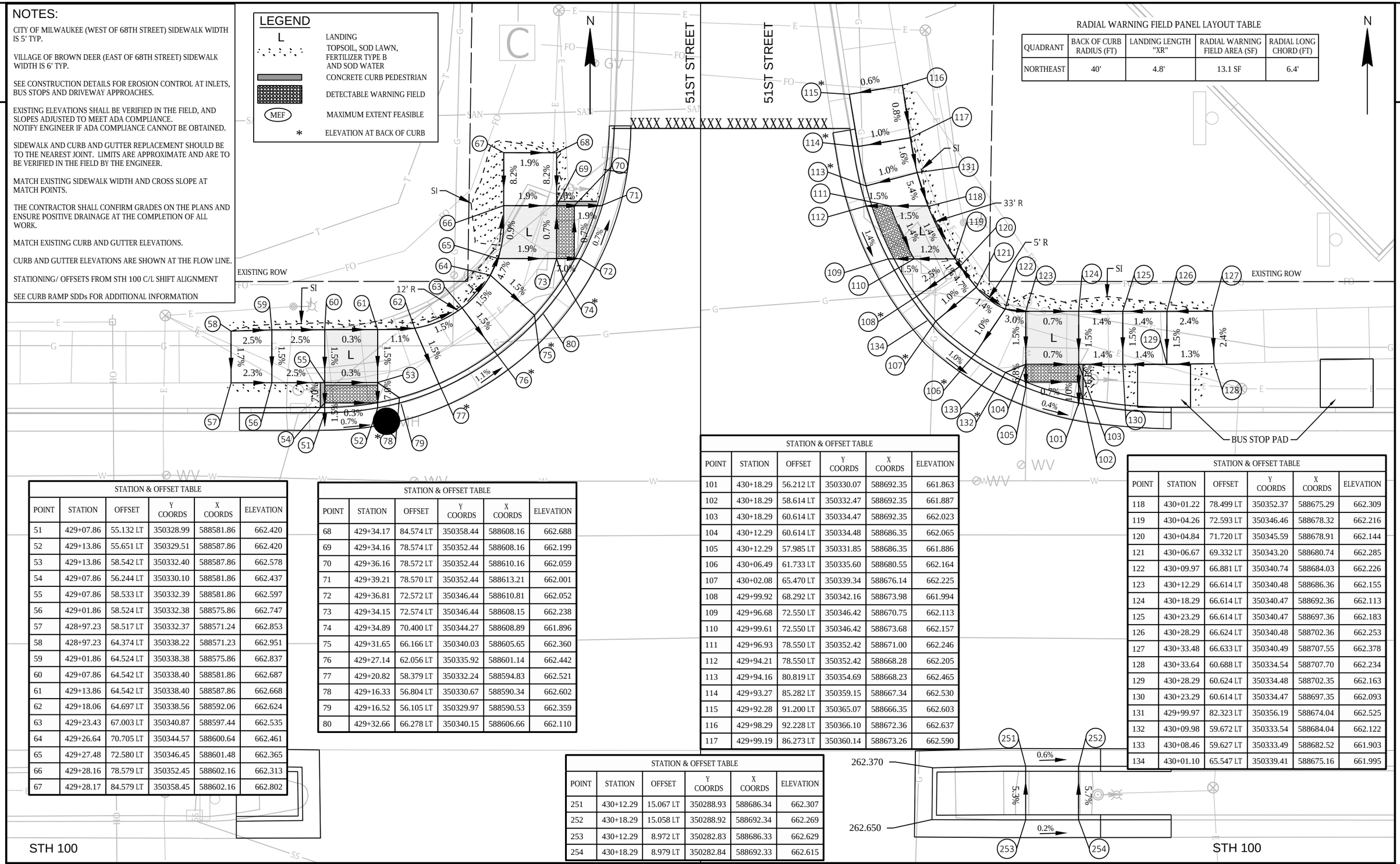
CURB AND GUTTER ELEVATIONS ARE SHOWN AT THE FLOW LINE.

STATIONING/ OFFSETS FROM STH 100 C/L SHIFT ALIGNMENT

SEE CURB RAMP SDDs FOR ADDITIONAL INFORMATION

LEGEND

L	LANDING
	TOPSOIL, SOD LAWN, FERTILIZER TYPE B AND SOD WATER
	CONCRETE CURB PEDESTRIAN
	DETECTABLE WARNING FIELD
MEF	MAXIMUM EXTENT FEASIBLE
*	ELEVATION AT BACK OF CURB



RADIAL WARNING FIELD PANEL LAYOUT TABLE

QUADRANT	BACK OF CURB RADIUS (FT)	LANDING LENGTH "XR"	RADIAL WARNING FIELD AREA (SF)	RADIAL LONG CHORD (FT)
NORTHEAST	40'	4.8'	13.1 SF	6.4'

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
51	429+07.86	55.132 LT	350328.99	588581.86	662.420
52	429+13.86	55.651 LT	350329.51	588587.86	662.420
53	429+13.86	58.542 LT	350332.40	588587.86	662.578
54	429+07.86	56.244 LT	350330.10	588581.86	662.437
55	429+07.86	58.533 LT	350332.39	588581.86	662.597
56	429+01.86	58.524 LT	350332.38	588575.86	662.747
57	428+97.23	58.517 LT	350332.37	588571.24	662.853
58	428+97.23	64.374 LT	350338.22	588571.23	662.951
59	429+01.86	64.524 LT	350338.38	588575.86	662.837
60	429+07.86	64.542 LT	350338.40	588581.86	662.687
61	429+13.86	64.542 LT	350338.40	588587.86	662.668
62	429+18.06	64.697 LT	350338.56	588592.06	662.624
63	429+23.43	67.003 LT	350340.87	588597.44	662.535
64	429+26.64	70.705 LT	350344.57	588600.64	662.461
65	429+27.48	72.580 LT	350346.45	588601.48	662.365
66	429+28.16	78.579 LT	350352.45	588602.16	662.313
67	429+28.17	84.579 LT	350358.45	588602.16	662.802

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
68	429+34.17	84.574 LT	350358.44	588608.16	662.688
69	429+34.16	78.574 LT	350352.44	588608.16	662.199
70	429+36.16	78.572 LT	350352.44	588610.16	662.059
71	429+39.21	78.570 LT	350352.44	588613.21	662.001
72	429+36.81	72.572 LT	350346.44	588610.81	662.052
73	429+34.15	72.574 LT	350346.44	588608.15	662.238
74	429+34.89	70.400 LT	350344.27	588608.89	661.896
75	429+31.65	66.166 LT	350340.03	588605.65	662.360
76	429+27.14	62.056 LT	350335.92	588601.14	662.442
77	429+20.82	58.379 LT	350332.24	588594.83	662.521
78	429+16.33	56.804 LT	350330.67	588590.34	662.602
79	429+16.52	56.105 LT	350329.97	588590.53	662.359
80	429+32.66	66.278 LT	350340.15	588606.66	662.110

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
101	430+18.29	56.212 LT	350330.07	588692.35	661.863
102	430+18.29	58.614 LT	350332.47	588692.35	661.887
103	430+18.29	60.614 LT	350334.47	588692.35	662.023
104	430+12.29	60.614 LT	350334.48	588686.35	662.065
105	430+12.29	57.985 LT	350331.85	588686.35	661.886
106	430+06.49	61.733 LT	350335.60	588680.55	662.164
107	430+02.08	65.470 LT	350339.34	588676.14	662.225
108	429+99.92	68.292 LT	350342.16	588673.98	661.994
109	429+96.68	72.550 LT	350346.42	588670.75	662.113
110	429+99.61	72.550 LT	350346.42	588673.68	662.157
111	429+96.93	78.550 LT	350352.42	588671.00	662.246
112	429+94.21	78.550 LT	350352.42	588668.28	662.205
113	429+94.16	80.819 LT	350354.69	588668.23	662.465
114	429+93.27	85.282 LT	350359.15	588667.34	662.530
115	429+92.28	91.200 LT	350365.07	588666.35	662.603
116	429+98.29	92.228 LT	350366.10	588672.36	662.637
117	429+99.19	86.273 LT	350360.14	588673.26	662.590

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
118	430+01.22	78.499 LT	350352.37	588675.29	662.309
119	430+04.26	72.593 LT	350346.46	588678.32	662.216
120	430+04.84	71.720 LT	350345.59	588678.91	662.144
121	430+06.67	69.332 LT	350343.20	588680.74	662.285
122	430+09.97	66.881 LT	350340.74	588684.03	662.226
123	430+12.29	66.614 LT	350340.48	588686.36	662.155
124	430+18.29	66.614 LT	350340.47	588692.36	662.113
125	430+23.29	66.614 LT	350340.47	588697.36	662.183
126	430+28.29	66.624 LT	350340.48	588702.36	662.253
127	430+33.48	66.633 LT	350340.49	588707.55	662.378
128	430+33.64	60.688 LT	350334.54	588707.70	662.234
129	430+28.29	60.624 LT	350334.48	588702.35	662.163
130	430+23.29	60.614 LT	350334.47	588697.35	662.093
131	429+99.97	82.323 LT	350356.19	588674.04	662.525
132	430+09.98	59.672 LT	350333.54	588684.04	662.122
133	430+08.46	59.627 LT	350333.49	588682.52	661.903
134	430+01.10	65.547 LT	350339.41	588675.16	661.995

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
251	430+12.29	15.067 LT	350288.93	588686.34	662.307
252	430+18.29	15.058 LT	350288.92	588692.34	662.269
253	430+12.29	8.972 LT	350282.83	588686.33	662.629
254	430+18.29	8.979 LT	350282.84	588692.33	662.615

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CURB RAMP DETAILS - 51ST STREET	SHEET 124 E

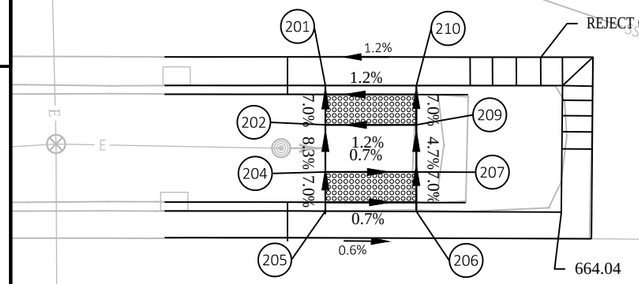
FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021327_CD_CURB RAMPS-51ST.DWG
LAYOUT NAME - 01
PLOT DATE : 10/20/2020 10:27 AM
PLOT BY : SCHMIDT, JUDENE M
PLOT NAME :
PLOT SCALE : ##########

STH 100

429+00

430+00

STH 100



REJECT GUTTER

664.04

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
201	429+07.86	6.767 RT	350267.09	588581.89	663.524
202	429+07.86	9.365 RT	350264.49	588581.90	663.706
204	429+07.86	12.471 RT	350261.39	588581.90	663.963
205	429+07.86	15.054 RT	350258.80	588581.90	664.144
206	429+13.86	15.074 RT	350258.79	588587.90	664.106
207	429+13.86	12.471 RT	350261.39	588587.90	663.924
209	429+13.86	9.365 RT	350264.49	588587.90	663.778
210	429+13.86	6.782 RT	350267.08	588587.89	663.597

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
2	429+07.86	55.388 RT	350218.47	588581.92	663.889
3	429+13.86	56.253 RT	350217.61	588587.92	663.936
4	429+07.86	56.856 RT	350217.00	588581.92	663.911
5	429+07.86	58.856 RT	350215.00	588581.92	664.021
6	429+13.86	58.856 RT	350215.00	588587.92	664.079
7	429+13.86	66.690 RT	350207.17	588587.92	664.379
8	429+19.54	66.690 RT	350207.17	588593.61	664.166
9	429+25.54	66.690 RT	350207.18	588599.61	664.106
10	429+27.54	66.690 RT	350207.18	588601.61	663.997
11	429+30.31	66.690 RT	350207.18	588604.37	663.848
12	429+34.24	72.690 RT	350201.18	588608.31	663.709
13	429+29.54	72.690 RT	350201.18	588603.61	663.803
14	429+27.54	72.690 RT	350201.18	588601.61	663.911
15	429+25.54	72.690 RT	350201.18	588599.61	664.025
16	429+19.54	72.690 RT	350201.17	588593.61	664.106
17	429+13.86	72.690 RT	350201.17	588587.93	664.440
18	429+07.86	72.690 RT	350201.17	588581.93	664.500
19	429+02.33	72.749 RT	350201.11	588576.41	664.610
20	428+96.60	72.748 RT	350201.10	588570.67	664.748
21	428+96.75	66.807 RT	350207.04	588570.82	664.636
22	429+02.27	66.749 RT	350207.10	588576.34	664.552
23	429+07.86	66.690 RT	350207.17	588581.92	664.440
24	429+17.63	57.224 RT	350216.64	588591.70	663.959
25	429+29.42	65.513 RT	350208.35	588603.49	663.867

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
151	429+83.70	72.670 RT	350201.20	588657.71	663.598
152	429+87.63	66.666 RT	350207.21	588661.64	663.736
153	429+90.38	66.664 RT	350207.21	588664.39	663.873
154	429+88.39	72.666 RT	350201.21	588662.39	663.668
155	429+90.39	72.664 RT	350201.21	588664.39	663.768
156	429+96.29	72.659 RT	350201.21	588670.30	664.083
157	429+95.62	76.550 RT	350197.32	588669.62	664.245
158	429+94.76	81.476 RT	350192.39	588668.76	664.421
159	429+93.90	86.418 RT	350187.45	588667.90	664.603
160	429+99.75	86.398 RT	350187.47	588673.75	664.706
161	430+00.67	82.505 RT	350191.36	588674.67	664.511
162	430+01.53	77.579 RT	350196.29	588675.53	664.335
163	430+02.39	72.653 RT	350201.21	588676.39	664.174
164	430+07.30	72.649 RT	350201.22	588681.31	664.243
165	430+12.40	72.644 RT	350201.22	588686.40	664.305
166	430+18.29	72.639 RT	350201.22	588692.30	664.387
167	430+23.79	72.661 RT	350201.20	588697.80	664.458
168	430+29.25	72.683 RT	350201.17	588703.26	664.692
169	430+29.34	66.663 RT	350207.19	588703.35	664.411
170	430+23.82	66.651 RT	350207.21	588697.83	664.368
171	430+18.29	66.639 RT	350207.22	588692.30	664.296
172	430+18.29	58.077 RT	350215.78	588692.31	663.696
173	430+18.29	55.369 RT	350218.49	588692.31	663.534
174	430+12.29	55.494 RT	350218.37	588686.31	663.617
175	430+12.29	58.077 RT	350215.79	588686.31	663.772
176	430+12.29	66.644 RT	350207.22	588686.30	664.215
177	430+07.29	66.649 RT	350207.22	588681.30	664.152
178	430+02.29	66.653 RT	350207.21	588676.30	664.082
179	429+96.29	66.659 RT	350207.21	588670.30	663.992
180	429+88.98	64.844 RT	350209.03	588662.99	663.770
181	430+10.15	55.469 RT	350218.39	588684.16	663.647

LEGEND

L	LANDING
	TOPSOIL, SOD LAWN, FERTILIZER TYPE B AND SOD WATER
	CONCRETE CURB PEDESTRIAN
	DETECTABLE WARNING FIELD
MEF	MAXIMUM EXTENT FEASIBLE
*	ELEVATION AT BACK OF CURB

N

NOTES:

CITY OF MILWAUKEE (WEST OF 68TH STREET) SIDEWALK WIDTH IS 5' TYP.

VILLAGE OF BROWN DEER (EAST OF 68TH STREET) SIDEWALK WIDTH IS 6' TYP.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD, AND SLOPES ADJUSTED TO MEET ADA COMPLIANCE. NOTIFY ENGINEER IF ADA COMPLIANCE CANNOT BE OBTAINED.

SIDEWALK AND CURB AND GUTTER REPLACEMENT SHOULD BE TO THE NEAREST JOINT. LIMITS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

MATCH EXISTING SIDEWALK WIDTH AND CROSS SLOPE AT MATCH POINTS.

THE CONTRACTOR SHALL CONFIRM GRADES ON THE PLANS AND ENSURE POSITIVE DRAINAGE AT THE COMPLETION OF ALL WORK.

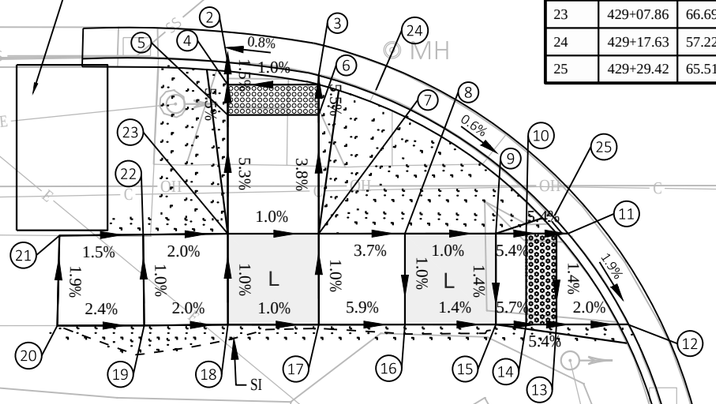
MATCH EXISTING CURB AND GUTTER ELEVATIONS.

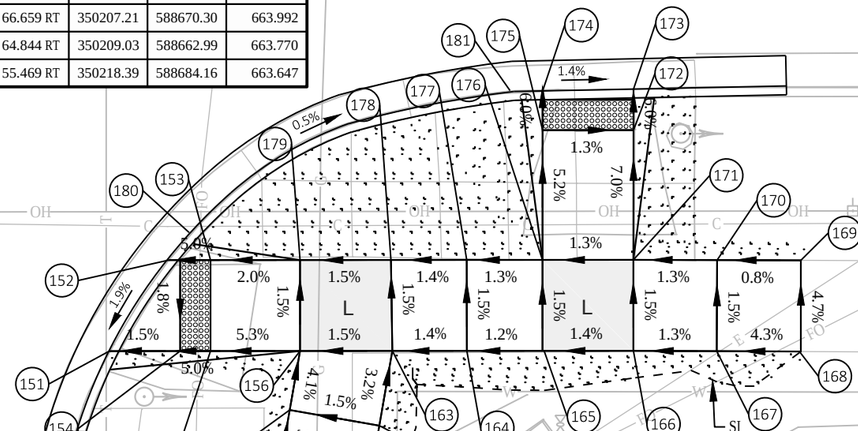
CURB AND GUTTER ELEVATIONS ARE SHOWN AT THE FLOW LINE.

STATIONING/ OFFSETS FROM STH 100 C/L SHIFT ALIGNMENT

SEE CURB RAMP SDDs FOR ADDITIONAL INFORMATION

BUS STOP PAD





51ST STREET

XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX

EXISTING ROW

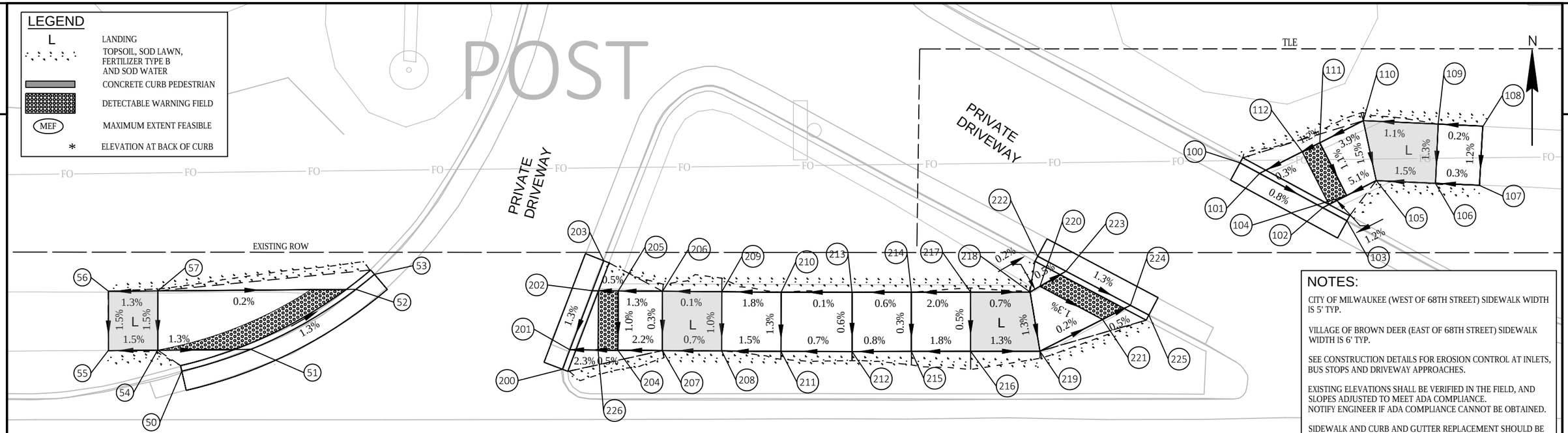
EXISTING ROW

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CURB RAMP DETAILS - 51ST STREET	SHEET 125	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021328_CD_CURB RAMPS-51ST.DWG
LAYOUT NAME - 01
PLOT DATE : 10/20/2020 10:37 AM
PLOT BY : SCHMIDT, JUDENE M
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

LEGEND

L	LANDING
	TOPSOIL, SOD LAWN, FERTILIZER TYPE B AND SOD WATER
	CONCRETE CURB PEDESTRIAN
	DETECTABLE WARNING FIELD
MEF	MAXIMUM EXTENT FEASIBLE
*	ELEVATION AT BACK OF CURB



RADIAL WARNING FIELD PANEL LAYOUT TABLE

QUADRANT	BACK OF CURB RADIUS (FT)	LANDING LENGTH 'XR' (FT)	RADIAL WARNING FIELD AREA (SF)	RADIAL LONG CHORD (FT)
NORTHWEST	45.4'	19.1'	28.7 SF	16.7'

NOTES:

CITY OF MILWAUKEE (WEST OF 68TH STREET) SIDEWALK WIDTH IS 5' TYP.

VILLAGE OF BROWN DEER (EAST OF 68TH STREET) SIDEWALK WIDTH IS 6' TYP.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD, AND SLOPES ADJUSTED TO MEET ADA COMPLIANCE. NOTIFY ENGINEER IF ADA COMPLIANCE CANNOT BE OBTAINED.

SIDEWALK AND CURB AND GUTTER REPLACEMENT SHOULD BE TO THE NEAREST JOINT. LIMITS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

MATCH EXISTING SIDEWALK WIDTH AND CROSS SLOPE AT MATCH POINTS.

THE CONTRACTOR SHALL CONFIRM GRADES ON THE PLANS AND ENSURE POSITIVE DRAINAGE AT THE COMPLETION OF ALL WORK.

MATCH EXISTING CURB AND GUTTER ELEVATIONS.

CURB AND GUTTER ELEVATIONS ARE SHOWN AT THE FLOW LINE.

STATIONING/ OFFSETS FROM STH 100 C/L SHIFT ALIGNMENT

SEE CURB RAMP SDDs FOR ADDITIONAL INFORMATION

STH 100

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
50	435+76.88	57.942 LT	350331.57	589250.94	662.69
51	435+83.87	60.152 LT	350333.78	589257.93	662.79
52	435+94.51	66.243 LT	350339.87	589268.57	662.95
53	435+96.38	67.759 LT	350341.38	589270.45	662.98
54	435+74.44	60.072 LT	350333.71	589248.50	662.87
55	435+69.47	60.075 LT	350333.71	589243.53	662.83
56	435+69.47	66.030 LT	350339.67	589243.53	662.92
57	435+74.44	66.072 LT	350339.71	589248.50	662.80

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
200	436+15.42	58.148 LT	350331.77	589289.48	662.97
201	436+16.17	60.125 LT	350333.74	589290.23	663.03
202	436+18.45	66.108 LT	350339.72	589292.51	663.12
203	436+19.60	69.144 LT	350342.76	589293.67	663.17
204	436+21.03	60.089 LT	350333.70	589295.09	663.10
205	436+21.07	66.090 LT	350339.71	589295.13	663.16
206	436+25.56	66.056 LT	350339.67	589299.62	663.22
207	436+25.54	60.056 LT	350333.67	589299.60	663.12
208	436+31.54	60.013 LT	350333.62	589305.60	663.16
209	436+31.56	66.013 LT	350339.62	589305.62	663.22
210	436+37.56	65.969 LT	350339.58	589311.62	663.33
211	436+37.54	59.969 LT	350333.58	589311.60	663.25
212	436+44.75	59.958 LT	350333.56	589318.81	663.30
213	436+44.75	65.958 LT	350339.56	589318.81	663.34

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
214	436+50.75	65.971 LT	350339.57	589324.81	663.37
215	436+50.75	59.971 LT	350333.57	589324.81	663.35
216	436+56.75	59.985 LT	350333.59	589330.81	663.46
217	436+56.75	65.985 LT	350339.59	589330.81	663.49
218	436+62.77	65.998 LT	350339.60	589336.83	663.45
219	436+63.77	60.001 LT	350333.60	589337.83	663.37
220	436+63.77	66.578 LT	350340.18	589337.83	663.45
221	436+70.11	63.225 LT	350336.82	589344.17	663.35
222	436+63.54	69.622 LT	350343.22	589337.60	663.46
223	436+66.40	68.107 LT	350341.70	589340.47	663.43
224	436+72.93	64.658 LT	350338.25	589346.99	663.33
225	436+74.80	63.669 LT	350337.26	589348.86	663.30
226	436+19.03	60.104 LT	350333.72	589293.09	663.09

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
100	436+84.02	79.101 LT	350352.69	589358.09	663.44
101	436+86.00	78.030 LT	350351.62	589360.07	663.42
102	436+92.42	74.562 LT	350348.15	589366.49	663.37
103	436+94.85	73.234 LT	350346.82	589368.92	663.39
104	436+94.82	75.784 LT	350349.37	589368.89	663.40
105	436+97.82	77.307 LT	350350.89	589371.89	663.57
106	437+03.82	77.037 LT	350350.62	589377.88	663.66
107	437+08.24	76.837 LT	350350.42	589382.30	663.67
108	437+08.61	82.785 LT	350356.36	589382.68	663.75
109	437+04.09	83.031 LT	350356.61	589378.15	663.74
110	436+96.51	83.373 LT	350356.96	589370.58	663.66
111	436+92.11	81.133 LT	350354.72	589366.17	663.47
112	436+90.32	80.227 LT	350353.81	589364.39	663.44

436+00

437+00

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CURB RAMP DETAILS - STA 436+30 LT	SHEET 126	E

436+00

437+00

LEGEND

L	LANDING
	TOPSOIL, SOD LAWN, FERTILIZER TYPE B AND SOD WATER
	CONCRETE CURB PEDESTRIAN
	DETECTABLE WARNING FIELD
MEF	MAXIMUM EXTENT FEASIBLE
*	ELEVATION AT BACK OF CURB

N

STH 100

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
1	436+57.83	75.437 RT	350198.16	589331.83	664.59
2	436+57.36	72.603 RT	350201.00	589331.37	664.57
3	436+55.34	66.600 RT	350207.00	589329.35	664.52
4	436+53.95	63.977 RT	350209.63	589327.96	664.54
5	436+52.70	66.597 RT	350207.01	589326.71	664.55
6	436+52.69	72.597 RT	350201.01	589326.70	664.60
7	436+48.52	72.591 RT	350201.01	589322.53	664.80
8	436+48.55	66.592 RT	350207.01	589322.56	664.82
9	436+42.17	66.583 RT	350207.02	589316.18	664.90
10	436+42.17	72.583 RT	350201.02	589316.17	664.84
11	436+36.43	72.576 RT	350201.03	589310.44	665.22
12	436+36.48	66.576 RT	350207.03	589310.49	665.14
13	436+30.79	66.568 RT	350207.04	589304.80	665.41
14	436+30.71	72.568 RT	350201.04	589304.72	665.53

NOTES:

CITY OF MILWAUKEE (WEST OF 68TH STREET) SIDEWALK WIDTH IS 5' TYP.

VILLAGE OF BROWN DEER (EAST OF 68TH STREET) SIDEWALK WIDTH IS 6' TYP.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD, AND SLOPES ADJUSTED TO MEET ADA COMPLIANCE.
NOTIFY ENGINEER IF ADA COMPLIANCE CANNOT BE OBTAINED.

SIDEWALK AND CURB AND GUTTER REPLACEMENT SHOULD BE TO THE NEAREST JOINT. LIMITS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

MATCH EXISTING SIDEWALK WIDTH AND CROSS SLOPE AT MATCH POINTS.

THE CONTRACTOR SHALL CONFIRM GRADES ON THE PLANS AND ENSURE POSITIVE DRAINAGE AT THE COMPLETION OF ALL WORK.

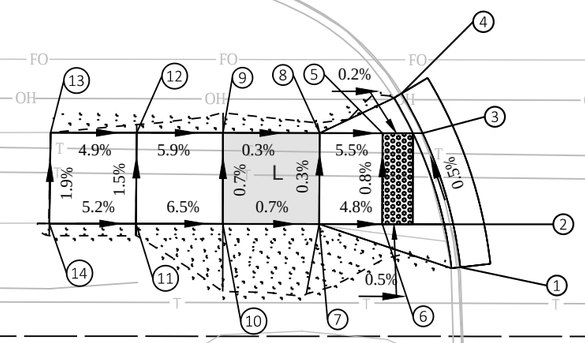
MATCH EXISTING CURB AND GUTTER ELEVATIONS.

CURB AND GUTTER ELEVATIONS ARE SHOWN AT THE FLOW LINE.

STATIONING/ OFFSETS FROM STH 100 C/L SHIFT ALIGNMENT

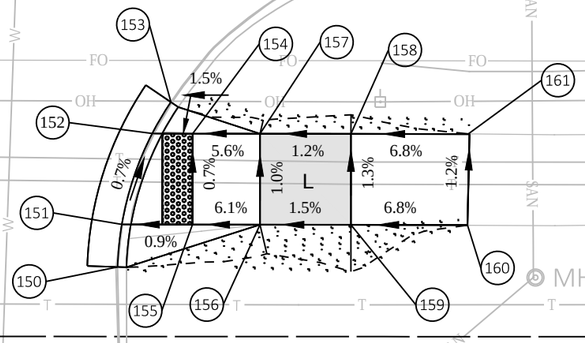
SEE CURB RAMP SDDs FOR ADDITIONAL INFORMATION

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
150	436+81.29	75.412 RT	350198.18	589355.29	664.62
151	436+81.57	72.604 RT	350200.99	589355.57	664.60
152	436+83.57	66.606 RT	350206.98	589357.58	664.55
153	436+84.80	64.535 RT	350209.05	589358.81	664.54
154	436+86.23	66.610 RT	350206.98	589360.24	664.60
155	436+86.22	72.610 RT	350200.98	589360.23	664.64
156	436+90.68	72.616 RT	350200.97	589364.69	664.91
157	436+90.68	66.616 RT	350206.97	589364.69	664.85
158	436+96.68	66.624 RT	350206.96	589370.69	664.92
159	436+96.68	72.624 RT	350200.96	589370.69	665.00
160	437+04.37	72.634 RT	350200.95	589378.38	665.52
161	437+04.43	66.618 RT	350206.96	589378.44	665.45



EXISTING ROW

PRIVATE DRIVEWAY



MH

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CURB RAMP DETAILS - STA 436+70 RT	SHEET 127	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021330_CD_CURB RAMPS-STA 437.DWG
LAYOUT NAME - 01

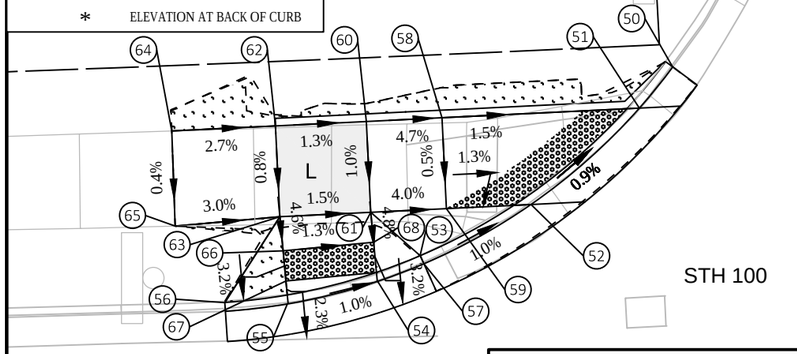
PLOT DATE : 10/20/2020 11:15 AM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : ##########

RADIAL WARNING FIELD PANEL LAYOUT TABLE

QUADRANT	BACK OF CURB RADIUS (FT)	LANDING LENGTH 'XR' (FT)	RADIAL WARNING FIELD AREA (SF)	RADIAL LONG CHORD (FT)
NORTHWEST	39.4'	12.2'	20.9 SF	9.8'
NORTHEAST	42.4'	12.3'	21.0 SF	10.0'

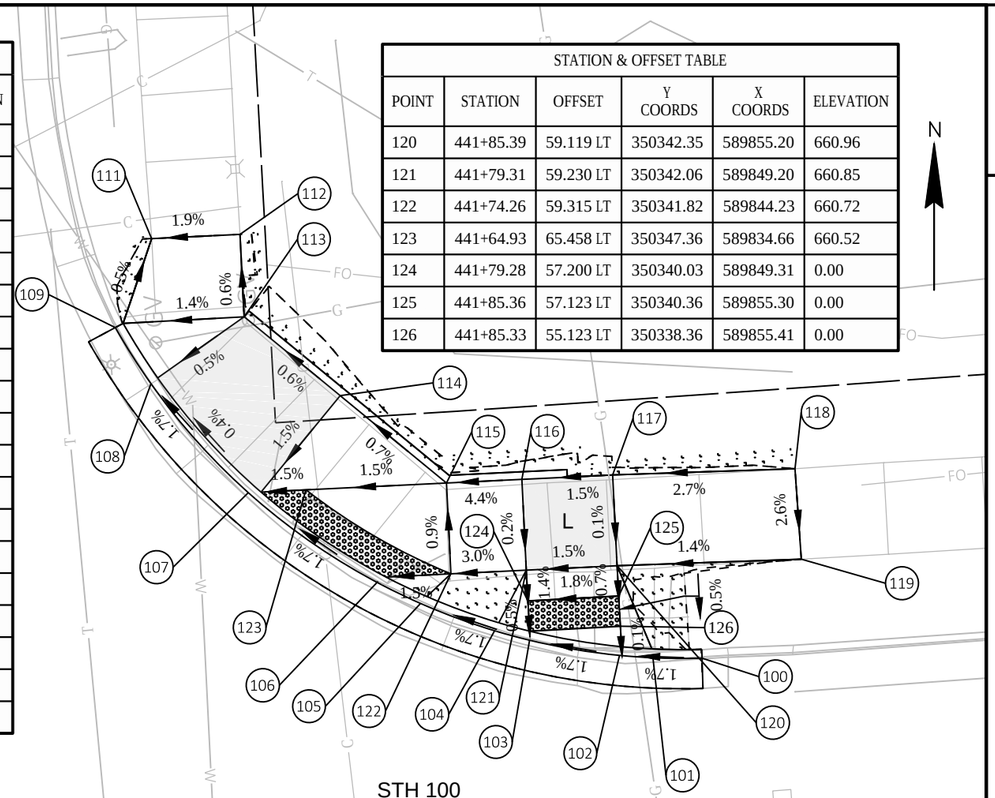
LEGEND

- L — LANDING
- TOPSOIL, SOD LAWN, FERTILIZER TYPE B AND SOD WATER
- CONCRETE CURB PEDESTRIAN
- DETECTABLE WARNING FIELD
- MEF — MAXIMUM EXTENT FEASIBLE
- * — ELEVATION AT BACK OF CURB



ARBON DR.

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
100	441+90.63	52.653 LT	350336.25	589860.80	661.02
101	441+87.36	52.900 LT	350336.28	589857.56	661.19
102	441+85.14	53.207 LT	350336.43	589855.35	660.94
103	441+79.22	54.601 LT	350337.43	589849.42	660.83
104	441+76.92	55.378 LT	350338.06	589847.11	661.04
105	441+72.10	57.497 LT	350339.86	589842.22	660.93
106	441+69.36	59.127 LT	350341.32	589839.42	660.53
107	441+61.06	65.511 LT	350347.17	589830.86	660.47
108	441+55.00	73.076 LT	350354.36	589824.44	660.29
109	441+52.83	76.921 LT	350358.07	589822.08	660.22
111	441+55.63	82.636 LT	350363.94	589824.48	660.42
112	441+61.58	82.554 LT	350364.21	589830.31	660.53
113	441+61.52	77.108 LT	350358.77	589830.58	660.56
114	441+67.62	71.521 LT	350353.58	589836.92	660.60
115	441+74.36	65.314 LT	350347.81	589843.94	660.66
116	441+79.41	65.229 LT	350348.05	589848.91	660.88
117	441+85.51	65.118 LT	350348.34	589854.90	660.97
118	441+97.72	64.693 LT	350348.75	589866.93	661.29
119	441+97.72	58.709 LT	350342.78	589867.36	661.14



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
120	441+85.39	59.119 LT	350342.35	589855.20	660.96
121	441+79.31	59.230 LT	350342.06	589849.20	660.85
122	441+74.26	59.315 LT	350341.82	589844.23	660.72
123	441+64.93	65.458 LT	350347.36	589834.66	660.52
124	441+79.28	57.200 LT	350340.03	589849.31	0.00
125	441+85.36	57.123 LT	350340.36	589855.30	0.00
126	441+85.33	55.123 LT	350338.36	589855.41	0.00

NOTES:

CITY OF MILWAUKEE (WEST OF 68TH STREET) SIDEWALK WIDTH IS 5' TYP.

VILLAGE OF BROWN DEER (EAST OF 68TH STREET) SIDEWALK WIDTH IS 6' TYP.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD, AND SLOPES ADJUSTED TO MEET ADA COMPLIANCE.
NOTIFY ENGINEER IF ADA COMPLIANCE CANNOT BE OBTAINED.

SIDEWALK AND CURB AND GUTTER REPLACEMENT SHOULD BE TO THE NEAREST JOINT. LIMITS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

MATCH EXISTING SIDEWALK WIDTH AND CROSS SLOPE AT MATCH POINTS.

THE CONTRACTOR SHALL CONFIRM GRADES ON THE PLANS AND ENSURE POSITIVE DRAINAGE AT THE COMPLETION OF ALL WORK.

MATCH EXISTING CURB AND GUTTER ELEVATIONS.

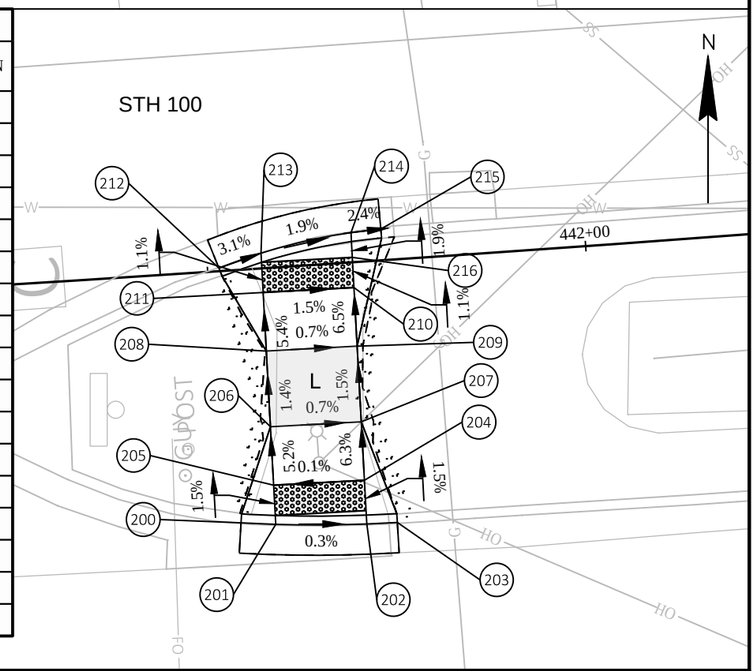
CURB AND GUTTER ELEVATIONS ARE SHOWN AT THE FLOW LINE.

STATIONING/ OFFSETS FROM STH 100 C/L SHIFT ALIGNMENT

SEE CURB RAMP SDDs FOR ADDITIONAL INFORMATION

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
50	440+95.26	68.495 LT	350346.63	589766.02	660.03
51	440+92.90	65.883 LT	350343.91	589763.82	660.26
52	440+85.36	59.859 LT	350337.55	589756.67	660.35
53	440+77.80	56.822 LT	350334.19	589749.35	660.64
54	440+74.86	55.275 LT	350332.53	589746.52	660.45
55	440+68.79	53.978 LT	350330.98	589740.58	660.51
56	440+64.62	54.243 LT	350331.08	589736.46	660.78
57	440+78.03	56.256 LT	350333.64	589749.60	660.42
58	440+79.66	65.832 LT	350343.27	589750.79	660.45
59	440+79.69	59.832 LT	350337.28	589751.09	660.42
60	440+74.58	65.802 LT	350343.03	589745.80	660.68
61	440+74.62	59.802 LT	350337.04	589746.09	660.65
62	440+68.48	65.752 LT	350342.73	589739.80	660.60
63	440+68.53	59.758 LT	350336.75	589740.09	660.71
64	440+61.53	65.697 LT	350342.41	589732.96	660.94
65	440+61.51	59.416 LT	350336.13	589733.18	660.92
66	440+68.65	57.496 LT	350334.49	589740.31	660.60
67	440+68.76	55.499 LT	350332.50	589740.49	660.54
68	440+74.73	57.816 LT	350335.06	589746.28	660.52

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
200	441+76.11	16.659 RT	350266.12	589851.03	662.33
201	441+78.38	16.909 RT	350266.03	589853.33	662.34
202	441+84.35	17.286 RT	350266.05	589859.33	662.36
203	441+86.36	17.322 RT	350266.15	589861.35	662.26
204	441+84.39	14.399 RT	350268.93	589859.18	662.35
205	441+78.41	14.323 RT	350268.61	589853.19	662.35
206	441+78.46	10.458 RT	350272.47	589852.98	662.15
207	441+84.44	10.534 RT	350272.79	589858.97	662.11
208	441+78.52	5.458 RT	350277.46	589852.71	662.08
209	441+84.51	5.534 RT	350277.79	589858.70	662.04
210	441+84.56	1.668 RT	350281.65	589858.49	661.78
211	441+78.56	1.592 RT	350281.32	589852.50	661.87
212	441+75.75	0.203 LT	350282.93	589849.57	661.94
213	441+78.60	1.010 LT	350283.92	589852.36	661.85
214	441+84.61	1.961 LT	350285.27	589858.29	661.73
215	441+86.59	2.059 LT	350285.50	589860.26	661.69
216	441+84.59	0.331 LT	350283.64	589858.38	661.76



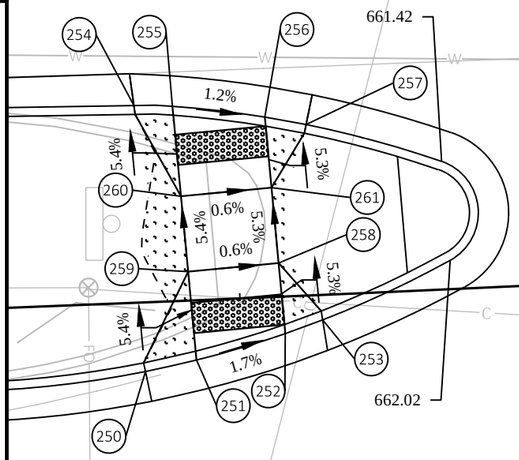
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CURB RAMP DETAILS - ARBON DRIVE	SHEET 128	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021331_CD_CURB RAMPS-ARBON.DWG
LAYOUT NAME - 01

PLOT DATE : 10/20/2020 11:35 AM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

2



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
250	440+68.58	4.562 RT	350272.48	589742.75	662.42
251	440+71.97	3.944 RT	350273.24	589746.12	662.37
252	440+77.90	2.447 RT	350274.98	589751.98	662.27
253	440+80.40	1.648 RT	350275.89	589754.44	662.18
254	440+68.53	13.011 LT	350290.04	589741.99	661.63
255	440+71.07	12.852 LT	350289.98	589744.53	661.47
256	440+77.15	11.888 LT	350289.27	589750.62	661.51
257	440+79.86	11.276 LT	350288.78	589753.35	661.53
258	440+77.65	2.223 LT	350279.64	589751.54	662.02
259	440+71.66	1.907 LT	350279.07	589745.56	662.06
260	440+71.39	6.900 LT	350284.05	589745.09	661.79
261	440+77.39	7.216 LT	350284.62	589751.07	661.76

NOTES:

CITY OF MILWAUKEE (WEST OF 68TH STREET) SIDEWALK WIDTH IS 5' TYP.

VILLAGE OF BROWN DEER (EAST OF 68TH STREET) SIDEWALK WIDTH IS 6' TYP.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD, AND SLOPES ADJUSTED TO MEET ADA COMPLIANCE.
NOTIFY ENGINEER IF ADA COMPLIANCE CANNOT BE OBTAINED.

SIDEWALK AND CURB AND GUTTER REPLACEMENT SHOULD BE TO THE NEAREST JOINT. LIMITS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE ENGINEER.

MATCH EXISTING SIDEWALK WIDTH AND CROSS SLOPE AT MATCH POINTS.

THE CONTRACTOR SHALL CONFIRM GRADES ON THE PLANS AND ENSURE POSITIVE DRAINAGE AT THE COMPLETION OF ALL WORK.

MATCH EXISTING CURB AND GUTTER ELEVATIONS.

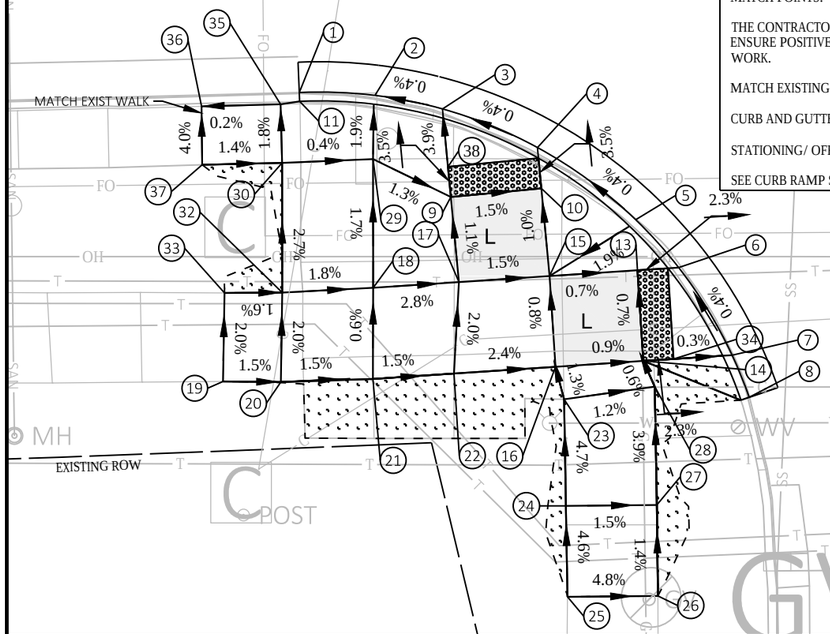
CURB AND GUTTER ELEVATIONS ARE SHOWN AT THE FLOW LINE.

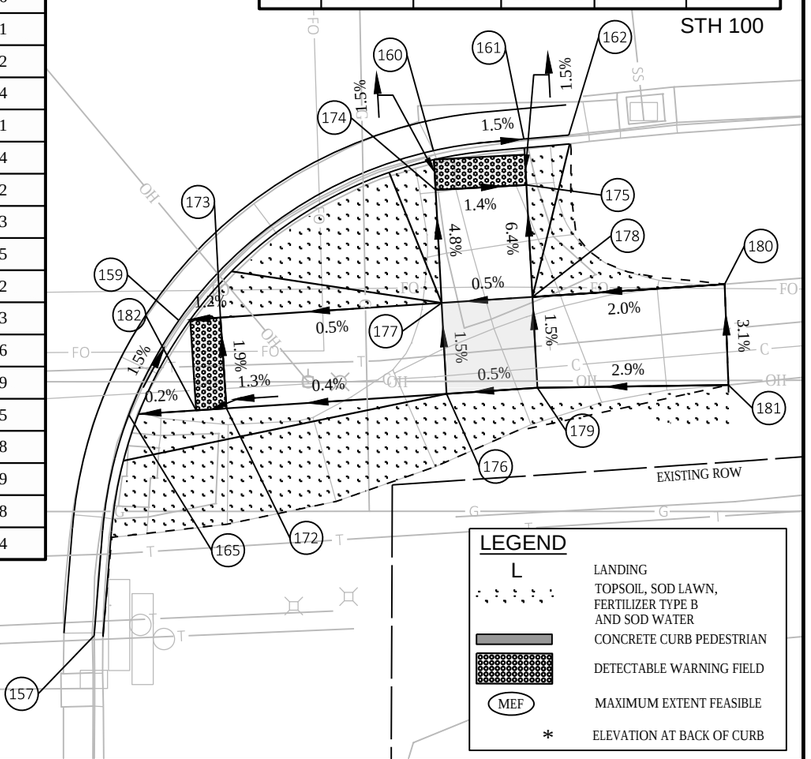
STATIONING/ OFFSETS FROM STH 100 C/L SHIFT ALIGNMENT

SEE CURB RAMP SDDs FOR ADDITIONAL INFORMATION

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
1	440+65.54	56.557 RT	350220.40	589741.79	663.52
2	440+70.45	56.949 RT	350220.21	589746.77	663.54
3	440+74.81	58.026 RT	350219.32	589751.23	663.56
4	440+80.88	60.841 RT	350216.77	589757.50	663.59
5	440+87.06	65.885 RT	350212.01	589763.98	663.62
6	440+89.70	69.162 RT	350208.86	589766.82	663.63
7	440+92.91	75.098 RT	350203.08	589770.35	663.66
8	440+93.89	77.927 RT	350200.30	589771.47	663.83
9	440+75.12	63.855 RT	350213.51	589751.79	663.76
10	440+81.02	63.544 RT	350214.08	589757.76	663.67
11	440+65.55	57.141 RT	350219.82	589741.82	663.74
13	440+87.03	69.219 RT	350208.68	589764.10	663.69
14	440+87.14	75.210 RT	350202.70	589764.49	663.70
15	440+81.30	69.346 RT	350208.29	589758.30	663.73
16	440+81.44	75.345 RT	350202.31	589758.69	663.78
17	440+75.41	69.468 RT	350207.92	589752.32	663.82
18	440+69.83	69.625 RT	350207.52	589746.66	663.98
19	440+59.85	75.411 RT	350201.34	589736.75	664.26
20	440+63.60	75.587 RT	350201.31	589740.57	664.21
21	440+69.57	75.633 RT	350201.51	589746.64	664.02
22	440+74.83	75.501 RT	350201.86	589751.99	663.94
23	440+81.90	77.505 RT	350200.17	589759.26	663.81
24	440+81.72	84.541 RT	350193.13	589759.38	664.14
25	440+81.56	90.539 RT	350187.13	589759.48	664.42
26	440+87.40	90.741 RT	350187.20	589765.45	664.13
27	440+87.60	84.744 RT	350193.20	589765.38	664.05
28	440+87.81	76.941 RT	350201.00	589765.25	663.72
29	440+70.16	61.145 RT	350216.01	589746.65	663.83
30	440+64.24	61.152 RT	350215.76	589740.65	663.86
32	440+63.92	69.699 RT	350207.21	589740.66	664.09
33	440+60.17	69.575 RT	350207.18	589736.85	664.15
34	440+89.11	75.171 RT	350202.83	589766.48	663.68
35	440+64.29	57.285 RT	350219.63	589740.55	663.79
36	440+59.15	57.216 RT	350219.49	589735.34	663.78
37	440+59.04	61.066 RT	350215.64	589735.38	663.94

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
157	441+53.93	88.694 RT	350192.82	589833.17	663.84
159	441+60.66	68.274 RT	350213.62	589838.76	663.51
160	441+77.89	58.175 RT	350224.82	589855.56	663.22
161	441+83.82	57.808 RT	350225.58	589861.53	663.13
162	441+86.76	57.748 RT	350225.85	589864.50	662.99
165	441+57.04	74.291 RT	350207.39	589835.45	663.62
172	441+63.39	74.264 RT	350207.81	589841.90	663.66
173	441+63.37	68.264 RT	350213.80	589841.51	663.54
174	441+77.86	60.766 RT	350222.23	589855.70	663.26
175	441+83.78	60.842 RT	350222.55	589861.69	663.18
176	441+77.71	74.239 RT	350208.78	589856.43	663.72
177	441+77.78	68.239 RT	350214.77	589856.11	663.62
178	441+83.68	68.242 RT	350215.16	589862.09	663.65
179	441+83.60	74.242 RT	350209.17	589862.42	663.74
180	441+96.19	68.278 RT	350216.00	589874.78	663.90
181	441+95.99	74.923 RT	350209.36	589875.03	664.11
182	441+61.43	74.271 RT	350207.68	589839.91	663.64





ARBON DR.

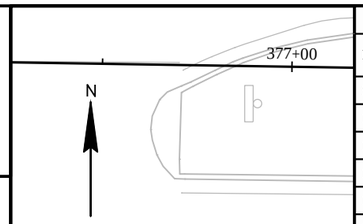
LEGEND

- L — LANDING
- TOPSOIL, SOD LAWN, FERTILIZER TYPE B AND SOD WATER
- CONCRETE CURB PEDESTRIAN
- DETECTABLE WARNING FIELD
- (MEF) — MAXIMUM EXTENT FEASIBLE
- * — ELEVATION AT BACK OF CURB

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CURB RAMP DETAILS - ARBON DRIVE	SHEET 129 E

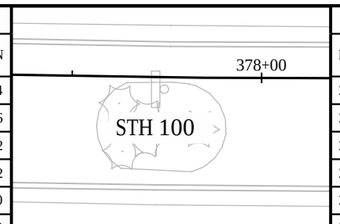
FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021332_CD_CURB RAMPS-ARBON.DWG
LAYOUT NAME - 01

PLOT DATE : 10/20/2020 11:51 AM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:10 FT



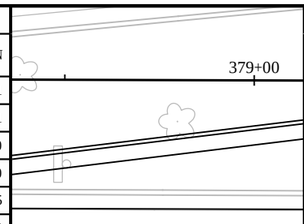
STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
9	376+95.25	67.607 RT	350240.71	583368.49	679.614
10	376+95.01	61.612 RT	350246.71	583368.35	679.536
11	377+06.35	67.167 RT	350240.98	583379.61	679.952
12	377+06.12	61.172 RT	350246.98	583379.46	679.892
13	377+30.14	66.226 RT	350241.55	583403.40	679.520
14	377+29.90	60.231 RT	350247.54	583403.26	679.490
15	377+50.08	66.180 RT	350241.28	583423.34	679.470
16	377+50.06	60.180 RT	350247.28	583423.42	679.440
17	377+75.07	66.123 RT	350240.94	583448.33	679.360
18	377+75.06	60.123 RT	350246.94	583448.42	679.330
19	378+00.36	66.169 RT	350240.59	583474.44	679.119
20	378+00.42	60.169 RT	350246.59	583474.52	679.089



STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
21	378+19.01	69.583 RT	350237.12	583493.09	679.171
22	378+19.01	63.583 RT	350243.12	583493.11	679.081
23	378+48.27	69.583 RT	350237.02	583522.35	679.250
24	378+73.28	69.583 RT	350236.94	583547.35	679.100
25	378+90.92	69.583 RT	350236.89	583564.99	678.925
26	379+00.93	69.583 RT	350236.85	583575.00	678.560
27	379+12.21	69.583 RT	350236.82	583586.28	678.500
28	379+17.21	69.583 RT	350236.80	583591.28	678.650
29	379+20.20	69.583 RT	350236.79	583594.28	678.600
30	379+41.79	69.584 RT	350236.72	583615.86	678.528
31	379+54.44	69.582 RT	350236.68	583628.51	678.411
32	379+61.57	69.583 RT	350236.66	583635.64	678.100

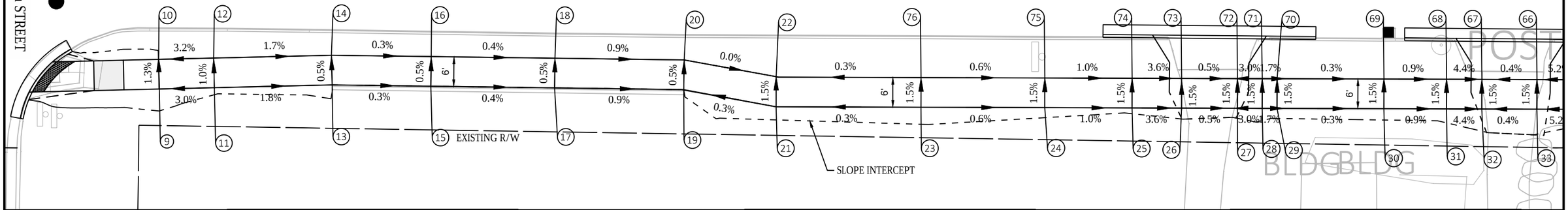


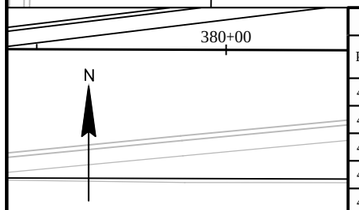
STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
33	379+72.71	69.583 RT	350236.62	583646.78	678.147
34	379+82.19	69.583 RT	350236.59	583656.26	678.641
35	380+23.28	69.583 RT	350236.46	583697.35	678.774
36	380+48.28	69.583 RT	350236.38	583722.35	678.791
37	380+67.75	69.583 RT	350236.32	583741.83	678.807
38	380+73.28	69.583 RT	350236.30	583747.35	678.732
39	380+82.46	69.583 RT	350236.27	583756.53	678.487
40	380+92.46	69.583 RT	350236.24	583766.53	677.984
41	381+13.51	69.593 RT	350236.16	583787.58	677.786
42	381+23.28	69.583 RT	350236.14	583797.35	678.114
43	381+48.28	69.583 RT	350236.06	583822.35	677.714
44	381+53.53	69.583 RT	350236.04	583827.60	677.451

2

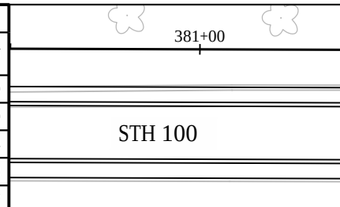
68th STREET





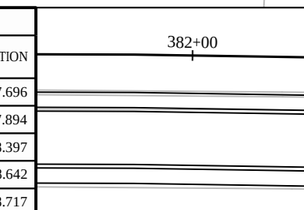
STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
45	381+70.28	69.583 RT	350235.99	583844.35	677.279
46	381+80.28	69.583 RT	350235.96	583854.35	677.609
47	381+91.93	69.583 RT	350235.92	583866.00	677.514
48	381+99.15	69.583 RT	350235.82	583872.35	677.462
49	382+14.80	69.583 RT	350235.57	583888.00	677.347
50	382+14.80	63.583 RT	350241.57	583888.09	677.257
51	381+99.15	63.583 RT	350241.82	583872.44	677.372
52	381+91.93	63.583 RT	350241.92	583866.02	677.424
53	381+80.28	63.583 RT	350241.96	583854.37	677.519
54	381+70.28	63.583 RT	350241.99	583844.37	677.189
56	381+48.28	63.583 RT	350242.06	583822.37	677.624
57	381+23.28	63.583 RT	350242.14	583797.37	678.024



STATION & OFFSET TABLE

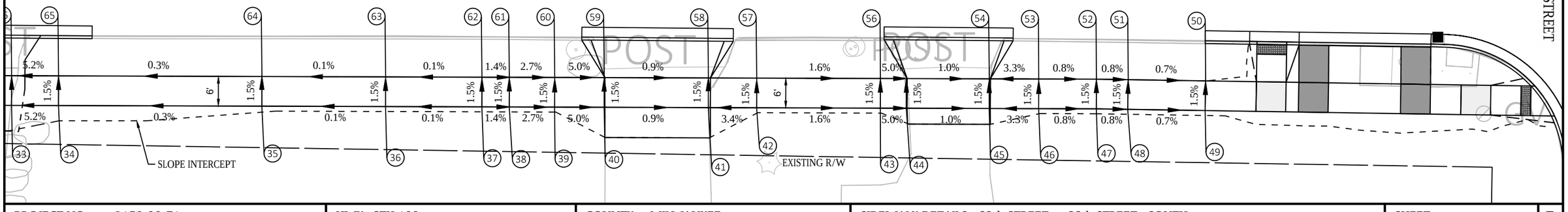
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
58	381+13.51	63.583 RT	350242.17	583787.60	677.696
59	380+92.46	63.583 RT	350242.24	583766.55	677.894
60	380+82.46	63.583 RT	350242.27	583756.55	678.397
61	380+73.28	63.583 RT	350242.30	583747.37	678.642
62	380+67.75	63.583 RT	350242.32	583741.85	678.717
63	380+48.28	63.583 RT	350242.38	583722.37	678.701
64	380+23.28	63.583 RT	350242.46	583697.37	678.684
65	379+82.19	63.583 RT	350242.59	583656.28	678.551
66	379+72.71	63.583 RT	350242.62	583646.80	678.057
67	379+61.57	63.583 RT	350242.66	583635.66	678.010
68	379+54.44	63.583 RT	350242.68	583628.53	678.321
69	379+41.79	63.583 RT	350242.72	583615.88	678.438



STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
70	379+20.20	63.583 RT	350242.79	583594.29	678.510
71	379+17.21	63.583 RT	350242.80	583591.30	678.560
72	379+12.21	63.583 RT	350242.82	583586.30	678.410
73	379+00.93	63.583 RT	350242.85	583575.02	678.470
74	378+90.92	63.583 RT	350242.89	583565.01	678.835
75	378+73.28	63.583 RT	350242.94	583547.37	679.010
76	378+48.27	63.583 RT	350243.02	583522.36	679.160

66th STREET



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	SIDEWALK DETAILS - 68th STREET to 66th STREET - SOUTH	SHEET 130	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021333_CD_SIDEWALK68THTO66TH.DWG
LAYOUT NAME - 01
PLOT DATE : 10/23/2020 10:43 AM
PLOT BY : SCHMIDT, JUDENE M
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42

2

N

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
100	383+35.00	69.583 RT	350233.68	584008.18	675.788
101	383+35.01	63.573 RT	350239.69	584008.28	675.848
102	383+44.01	69.583 RT	350233.54	584017.20	676.256
103	383+44.01	63.583 RT	350239.54	584017.29	676.166
104	383+55.37	69.583 RT	350233.36	584028.55	676.198
105	383+55.37	63.583 RT	350239.36	584028.65	676.108
106	383+65.38	69.583 RT	350233.21	584038.55	675.915
107	383+65.38	63.583 RT	350239.21	584038.65	675.825
108	383+89.46	69.583 RT	350232.83	584062.64	675.915
109	383+89.46	63.583 RT	350238.83	584062.73	675.788
110	384+00.00	69.583 RT	350232.66	584073.18	675.991
111	384+00.00	63.583 RT	350238.66	584073.27	675.901

384+00

STH 100

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
112	384+25.00	69.583 RT	350232.27	584098.17	675.719
113	384+25.00	63.583 RT	350238.27	584098.27	675.629
114	384+30.66	69.584 RT	350232.18	584103.83	675.654
115	384+30.66	63.583 RT	350238.18	584103.92	675.564
116	384+50.00	69.581 RT	350231.88	584123.17	675.377
117	384+50.00	63.583 RT	350237.88	584123.26	675.287
118	384+74.96	69.583 RT	350231.48	584148.13	675.047
119	384+74.96	63.583 RT	350237.48	584148.22	674.957
120	384+96.36	69.583 RT	350231.15	584169.53	674.987
121	384+96.36	63.583 RT	350237.15	584169.62	674.897
122	385+12.65	69.583 RT	350230.89	584185.81	674.891
123	385+12.65	63.583 RT	350236.89	584185.91	674.801

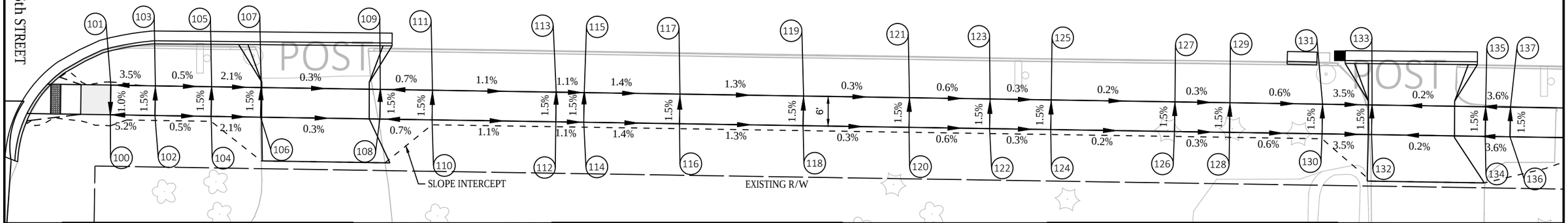
385+00

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
124	385+25.00	69.583 RT	350230.70	584198.16	674.849
125	385+25.00	63.583 RT	350236.70	584198.25	674.759
126	385+50.00	69.595 RT	350230.29	584223.16	674.797
127	385+50.00	63.583 RT	350236.30	584223.25	674.707
128	385+61.11	69.586 RT	350230.13	584234.27	674.761
129	385+61.11	63.583 RT	350236.13	584234.36	674.671
130	385+79.82	69.583 RT	350229.84	584252.97	674.653
131	385+79.82	63.583 RT	350235.84	584253.06	674.563
132	385+89.82	69.583 RT	350229.68	584262.97	674.301
133	385+89.82	63.583 RT	350235.68	584263.06	674.211
134	386+12.79	69.583 RT	350229.32	584285.94	674.347
135	386+12.78	63.583 RT	350235.32	584286.02	674.256

386+00

2

66th STREET



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
136	386+17.79	69.583 RT	350229.24	584290.94	674.528
137	386+17.79	63.583 RT	350235.24	584291.03	674.438
138	386+50.00	69.583 RT	350228.73	584323.14	674.264
139	386+50.00	63.583 RT	350234.73	584323.24	674.174
140	386+61.59	69.583 RT	350228.55	584334.73	674.021
141	386+61.59	63.583 RT	350234.55	584334.83	673.931
142	386+75.00	69.583 RT	350228.34	584348.14	673.724
143	386+75.00	63.583 RT	350234.34	584348.24	673.634
144	386+85.21	69.583 RT	350228.18	584358.35	673.459
145	386+85.21	63.583 RT	350234.18	584358.44	673.369
146	386+95.20	69.583 RT	350228.02	584368.34	673.005
147	386+95.20	63.583 RT	350234.02	584368.43	672.915

387+00

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
148	387+10.24	69.583 RT	350227.79	584383.37	672.935
149	387+10.24	63.583 RT	350233.79	584383.47	672.845
150	387+31.17	69.583 RT	350227.46	584404.31	673.005
151	387+31.17	63.583 RT	350233.46	584404.40	672.915
152	387+50.00	69.583 RT	350227.16	584423.13	672.919
153	387+50.00	63.583 RT	350233.16	584423.23	672.829
154	387+75.00	69.583 RT	350226.77	584448.13	672.792
155	387+75.00	63.583 RT	350232.77	584448.22	672.702
156	387+82.42	69.583 RT	350226.65	584455.54	672.753
157	387+82.42	63.583 RT	350232.65	584455.64	672.663
158	388+00.00	69.583 RT	350226.38	584473.13	672.567
159	388+00.00	63.583 RT	350232.38	584473.22	672.477

388+00

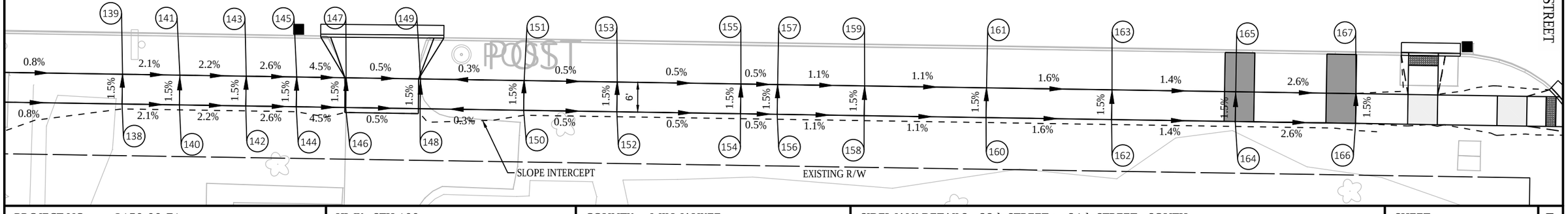
STH 100

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
160	388+24.63	69.583 RT	350225.99	584497.76	672.306
161	388+24.63	63.583 RT	350231.99	584497.85	672.216
162	388+50.00	69.583 RT	350225.59	584523.12	671.898
163	388+50.00	63.583 RT	350231.59	584523.21	671.808
164	388+75.00	69.583 RT	350225.20	584548.12	671.556
165	388+75.00	63.583 RT	350231.20	584548.21	671.466
166	388+99.31	69.561 RT	350224.84	584572.43	670.927
167	388+99.31	63.582 RT	350230.82	584572.52	670.837

389+00

N

64th STREET

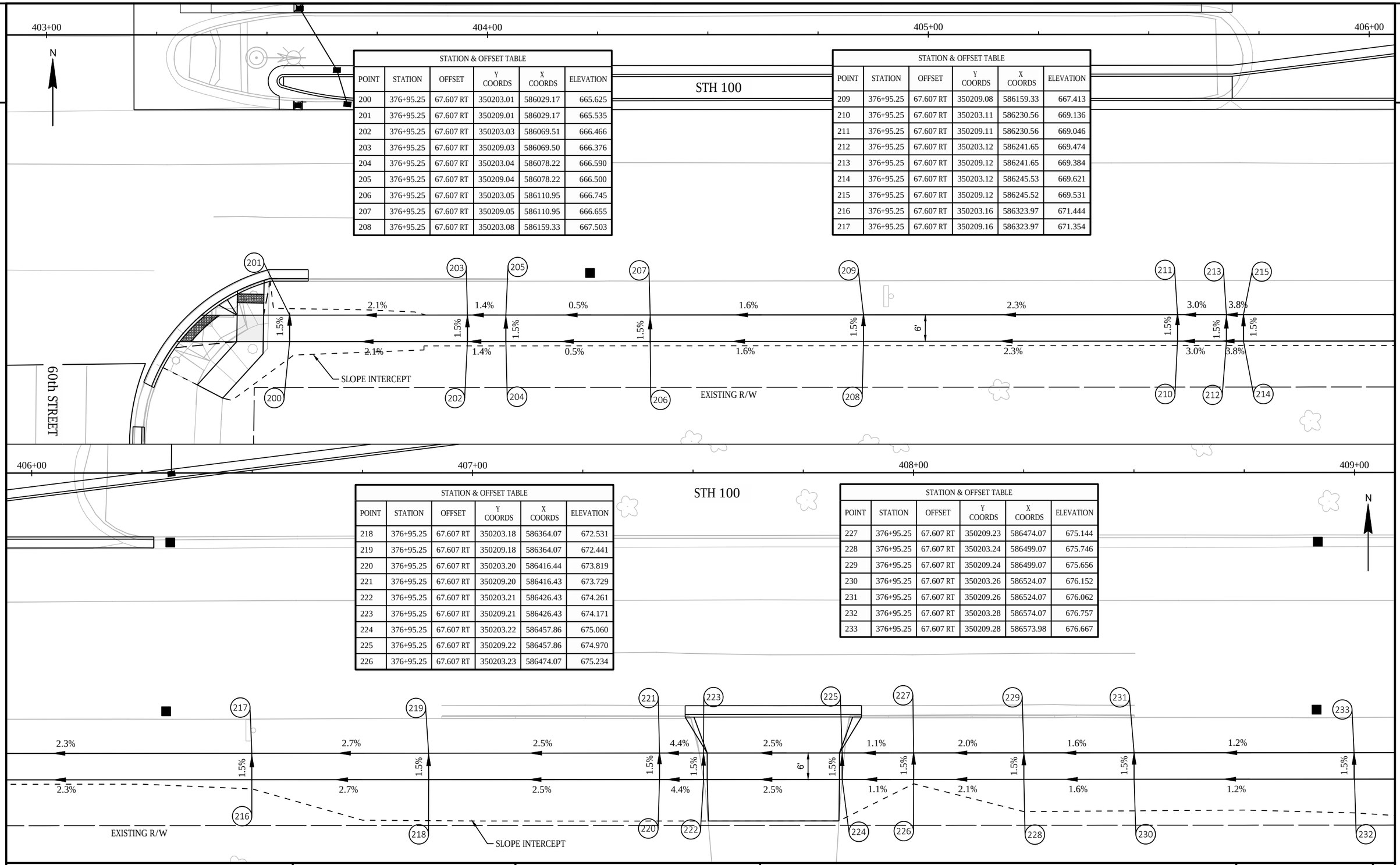


PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	SIDEWALK DETAILS - 66th STREET to 64th STREET - SOUTH	SHEET 131	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021334_CD_SIDEWALK66THTO64TH.DWG
LAYOUT NAME - 02

PLOT DATE : 10/23/2020 10:48 AM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 42



STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
200	376+95.25	67.607 RT	350203.01	586029.17	665.625
201	376+95.25	67.607 RT	350209.01	586029.17	665.535
202	376+95.25	67.607 RT	350203.03	586069.51	666.466
203	376+95.25	67.607 RT	350209.03	586069.50	666.376
204	376+95.25	67.607 RT	350203.04	586078.22	666.590
205	376+95.25	67.607 RT	350209.04	586078.22	666.500
206	376+95.25	67.607 RT	350203.05	586110.95	666.745
207	376+95.25	67.607 RT	350209.05	586110.95	666.655
208	376+95.25	67.607 RT	350203.08	586159.33	667.503

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
209	376+95.25	67.607 RT	350209.08	586159.33	667.413
210	376+95.25	67.607 RT	350203.11	586230.56	669.136
211	376+95.25	67.607 RT	350209.11	586230.56	669.046
212	376+95.25	67.607 RT	350203.12	586241.65	669.474
213	376+95.25	67.607 RT	350209.12	586241.65	669.384
214	376+95.25	67.607 RT	350203.12	586245.53	669.621
215	376+95.25	67.607 RT	350209.12	586245.52	669.531
216	376+95.25	67.607 RT	350203.16	586323.97	671.444
217	376+95.25	67.607 RT	350209.16	586323.97	671.354

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
218	376+95.25	67.607 RT	350203.18	586364.07	672.531
219	376+95.25	67.607 RT	350209.18	586364.07	672.441
220	376+95.25	67.607 RT	350203.20	586416.44	673.819
221	376+95.25	67.607 RT	350209.20	586416.43	673.729
222	376+95.25	67.607 RT	350203.21	586426.43	674.261
223	376+95.25	67.607 RT	350209.21	586426.43	674.171
224	376+95.25	67.607 RT	350203.22	586457.86	675.060
225	376+95.25	67.607 RT	350209.22	586457.86	674.970
226	376+95.25	67.607 RT	350203.23	586474.07	675.234

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
227	376+95.25	67.607 RT	350209.23	586474.07	675.144
228	376+95.25	67.607 RT	350203.24	586499.07	675.746
229	376+95.25	67.607 RT	350209.24	586499.07	675.656
230	376+95.25	67.607 RT	350203.26	586524.07	676.152
231	376+95.25	67.607 RT	350209.26	586524.07	676.062
232	376+95.25	67.607 RT	350203.28	586574.07	676.757
233	376+95.25	67.607 RT	350209.28	586573.98	676.667

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	SIDEWALK DETAILS - 60th STREET to 56th STREET - SOUTH	SHEET 132	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021335_CD_SIDEWALK60THTO56TH.DWG
LAYOUT NAME - 03

PLOT DATE : 10/23/2020 10:52 AM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 42

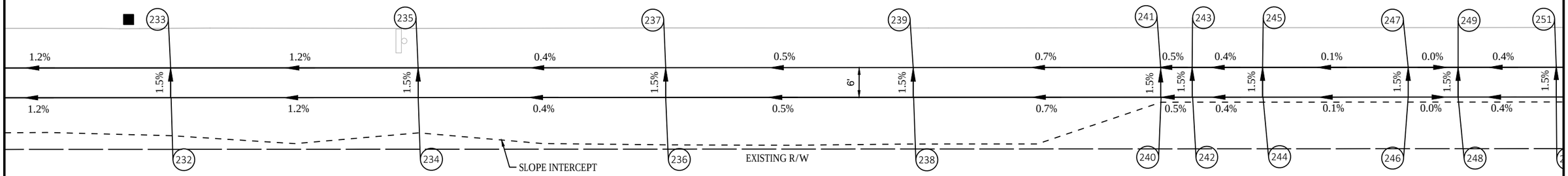
409+00 410+00 411+00

STH 100

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
232	376+95.25	67.607 RT	350203.28	586574.07	676.757
233	376+95.25	67.607 RT	350209.28	586573.98	676.667
234	376+95.25	67.607 RT	350203.31	586623.98	677.342
235	376+95.25	67.607 RT	350209.31	586623.98	677.252
236	376+95.25	67.607 RT	350203.33	586673.98	677.529
237	376+95.25	67.607 RT	350209.33	586673.98	677.439
238	376+95.25	67.607 RT	350203.35	586724.07	677.760
239	376+95.25	67.607 RT	350209.35	586723.98	677.670
240	376+95.25	67.607 RT	350203.38	586774.07	678.097
241	376+95.25	67.607 RT	350209.38	586773.98	678.007

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
242	376+95.25	67.607 RT	350203.38	586780.43	678.127
243	376+95.25	67.607 RT	350209.38	586780.34	678.037
244	376+95.25	67.607 RT	350203.39	586794.66	678.179
245	376+95.25	67.607 RT	350209.39	586794.56	678.089
246	376+95.25	67.607 RT	350203.40	586823.98	678.196
247	376+95.25	67.607 RT	350209.40	586823.98	678.106
248	376+95.25	67.607 RT	350203.41	586834.06	678.195
249	376+95.25	67.607 RT	350209.41	586834.06	678.105
250	376+95.25	67.607 RT	350203.42	586853.89	678.272
251	376+95.25	67.607 RT	350209.42	586853.89	678.182

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
252	376+95.25	67.607 RT	350203.43	586873.98	678.295
253	376+95.25	67.607 RT	350209.43	586873.98	678.205
254	376+95.25	67.607 RT	350203.43	586880.81	678.303
255	376+95.25	67.607 RT	350209.43	586880.72	678.213
256	376+95.25	67.607 RT	350203.45	586917.17	678.473
257	376+95.25	67.607 RT	350209.45	586917.17	678.383
258	376+95.25	67.607 RT	350203.45	586924.08	678.514
259	376+95.25	67.607 RT	350209.45	586923.98	678.424
260	376+95.25	67.607 RT	350203.46	586931.91	678.561
261	376+95.25	67.607 RT	350209.46	586931.91	678.471

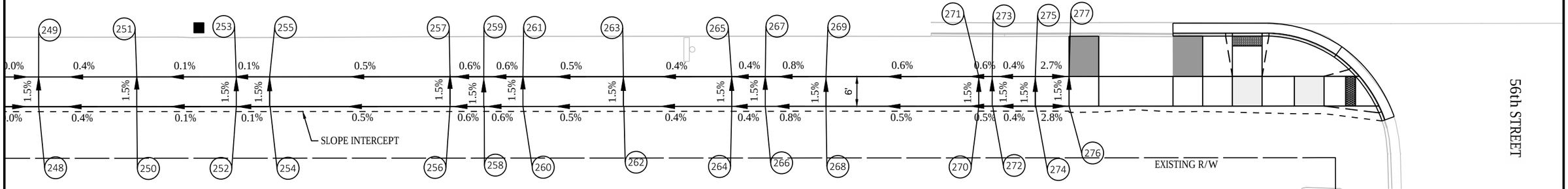


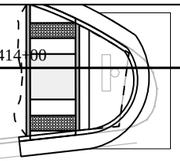
412+00 413+00 414+00

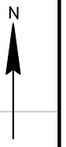
STH 100

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
262	376+95.25	67.607 RT	350203.47	586952.28	678.659
263	376+95.25	67.607 RT	350209.47	586952.19	678.569
264	376+95.25	67.607 RT	350203.48	586974.07	678.755
265	376+95.25	67.607 RT	350209.48	586974.07	678.665
266	376+95.25	67.607 RT	350203.48	586980.85	678.785
267	376+95.25	67.607 RT	350209.48	586980.85	678.695
268	376+95.25	67.607 RT	350203.49	586993.12	678.878
269	376+95.25	67.607 RT	350209.49	586993.11	678.788
270	376+95.25	67.607 RT	350203.50	587023.98	679.048
271	376+95.25	67.607 RT	350209.50	587023.98	678.958

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
272	376+95.25	67.607 RT	350203.50	587026.77	679.063
273	376+95.25	67.607 RT	350209.51	587026.68	678.973
274	376+95.25	67.607 RT	350203.51	587035.49	679.096
275	376+95.25	67.607 RT	350209.51	587035.40	679.006
276	376+95.25	67.607 RT	350203.51	587042.22	678.909
277	376+95.25	67.607 RT	350209.51	587042.22	678.819

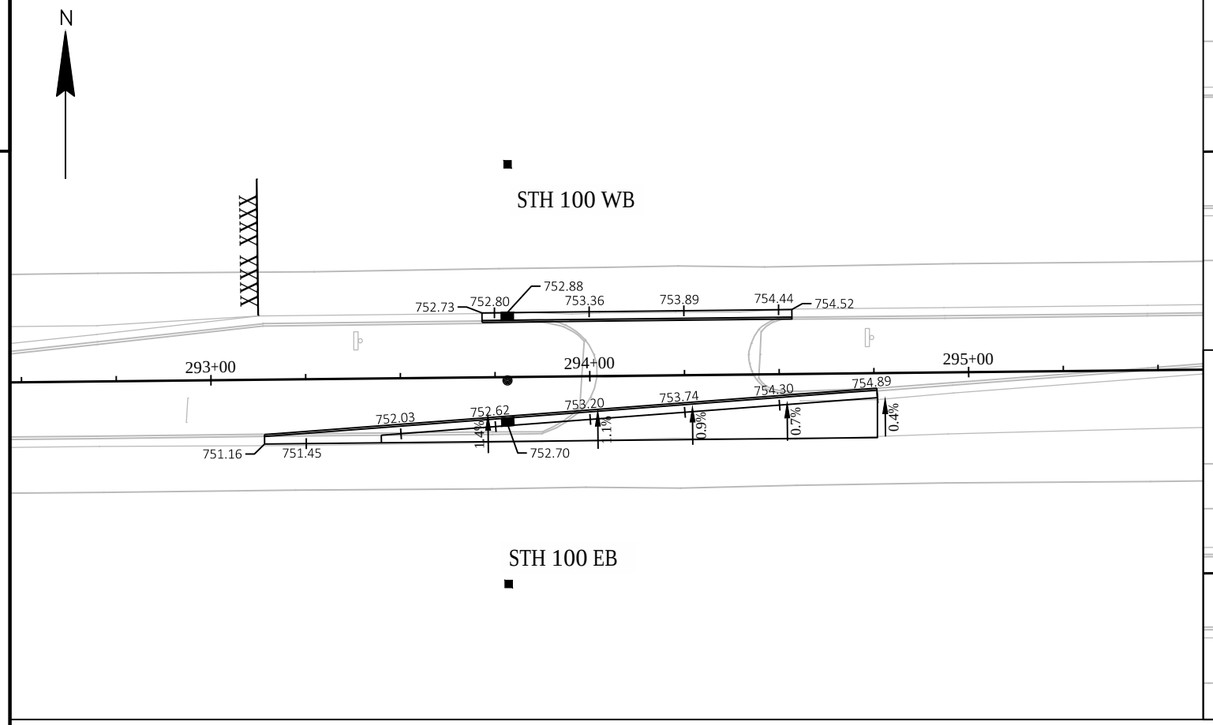


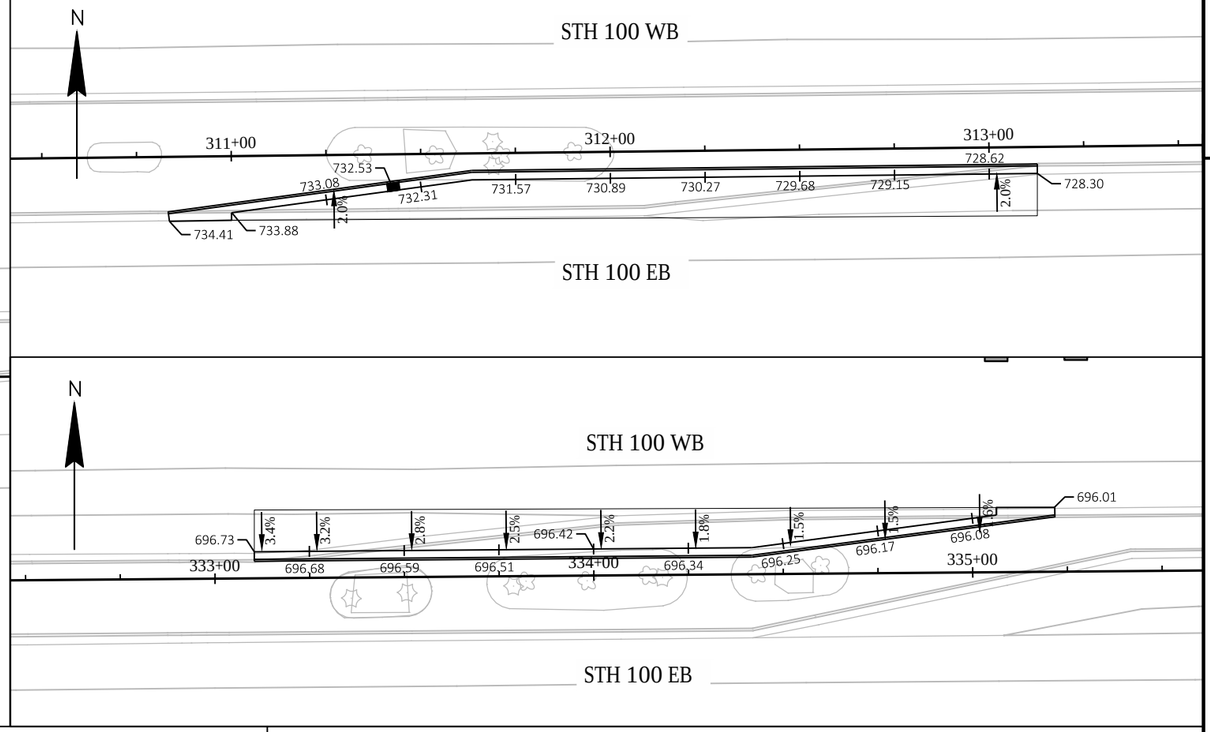


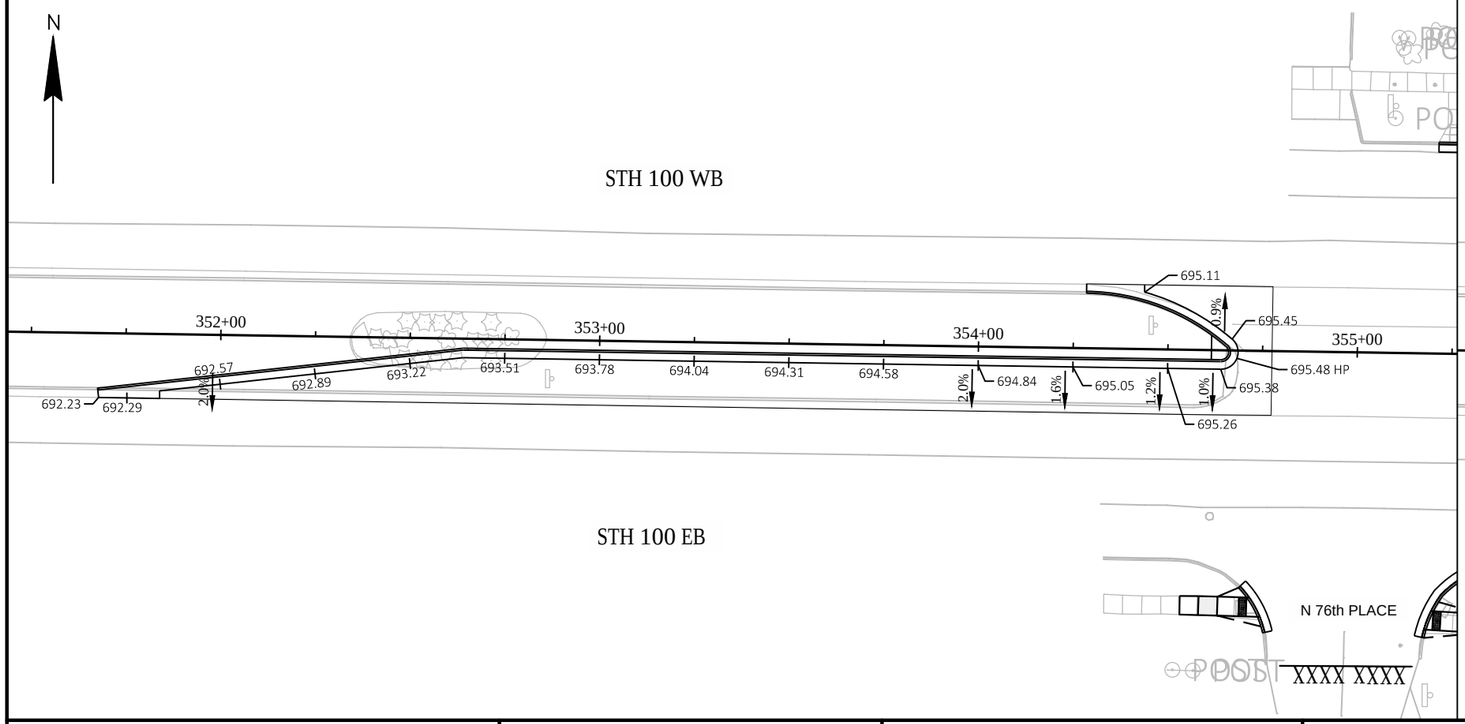


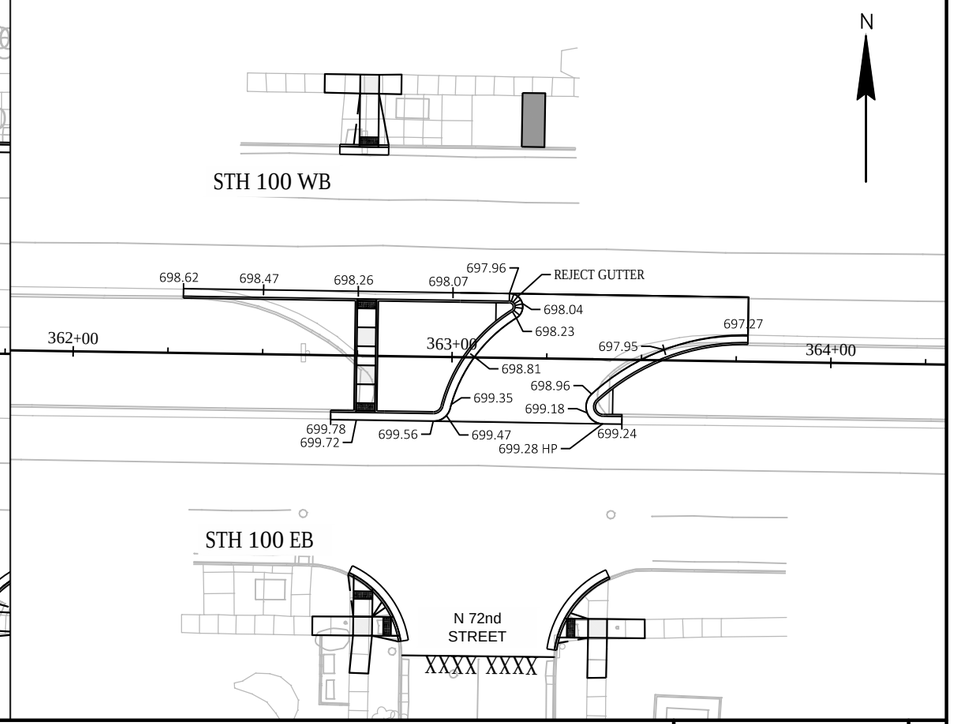
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	SIDEWALK DETAILS - 60th STREET to 56th STREET - SOUTH	SHEET 133	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\021335_CD_SIDEWALK60THTO56TH.DWG
LAYOUT NAME - 04
PLOT DATE : 10/23/2020 10:53 AM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42

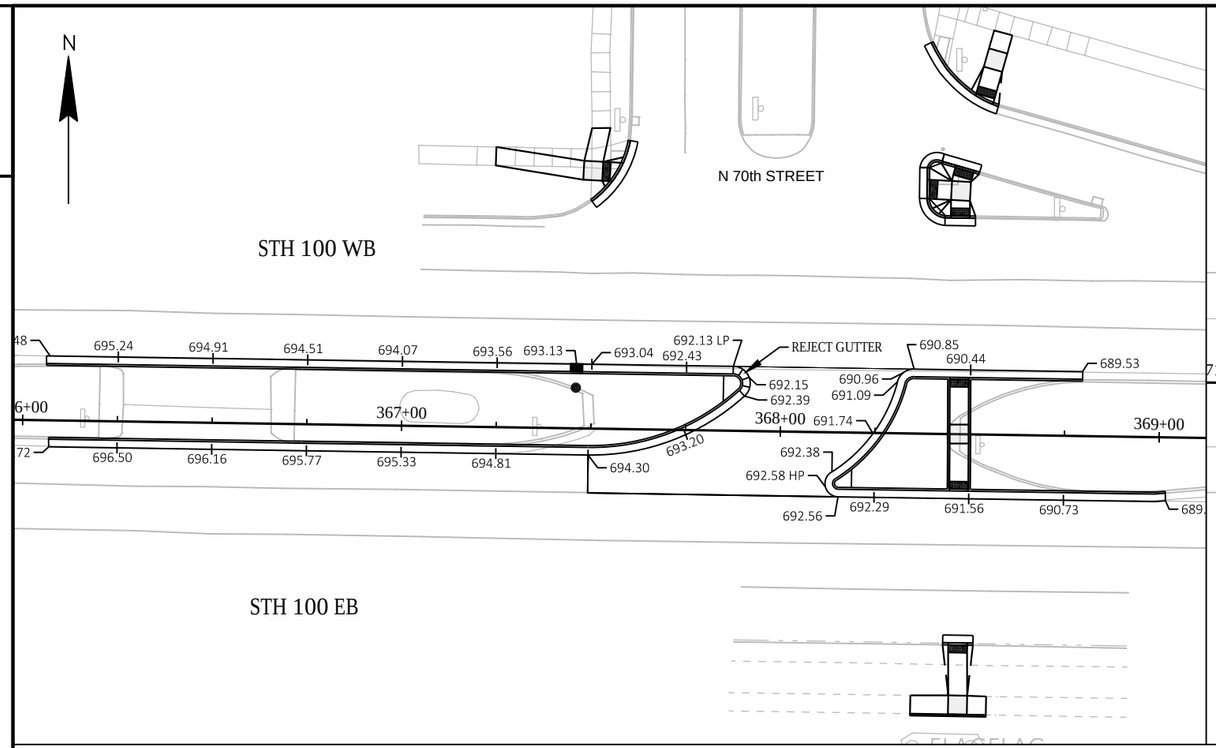


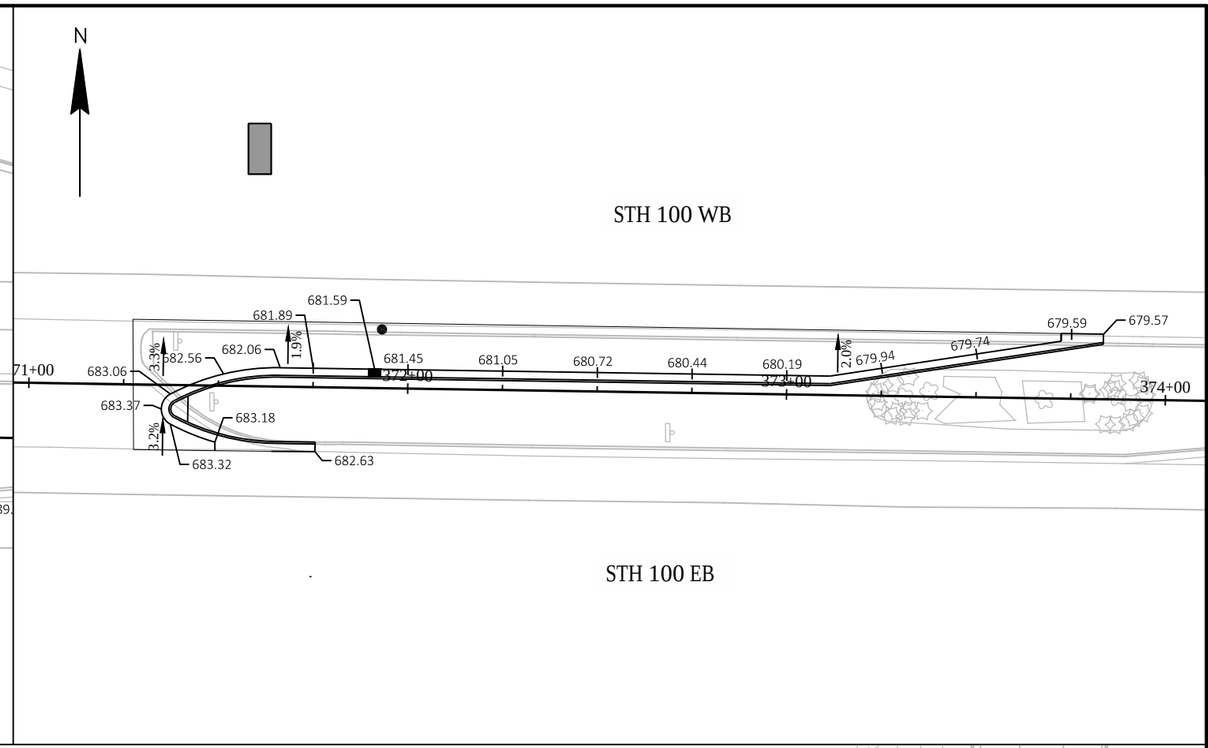


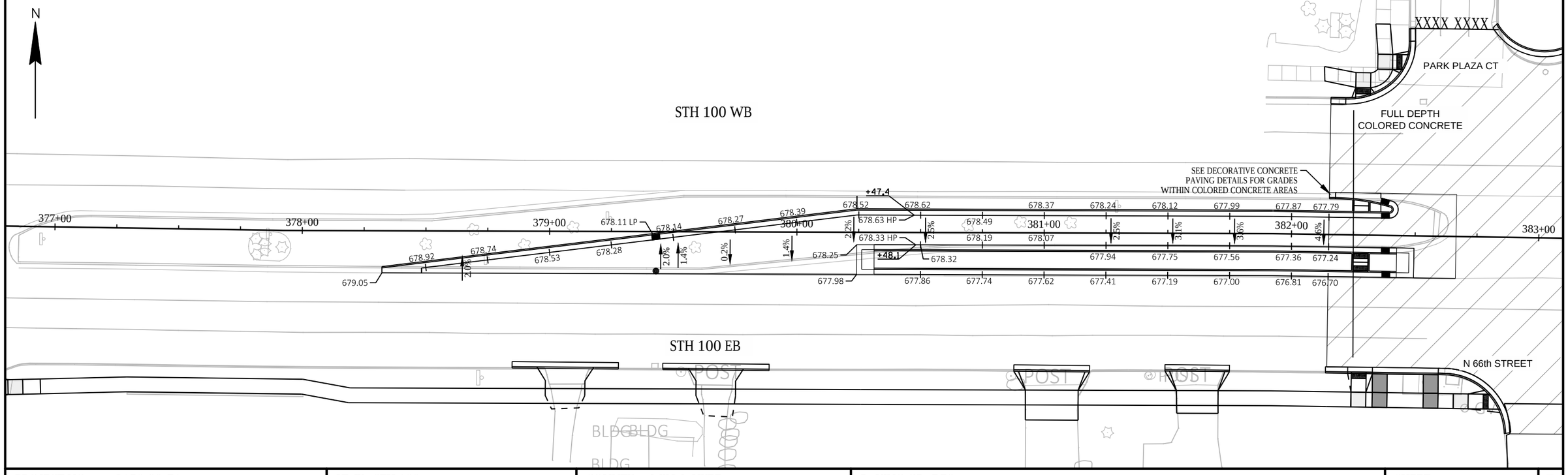




PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 134	E







PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 135	E

XXXX XXXX

PARK PLAZA CT

FULL DEPTH
COLORED CONCRETE

SEE DECORATIVE CONCRETE
PAVING DETAILS FOR GRADES
WITHIN COLORED CONCRETE AREAS

N

STH 100 WB

676.88 676.81 676.62 676.44 675.81 676.24 676.10
676.49 676.43 676.26 676.09 675.92
384+00 385+00 386+00 387+00
675.92 675.80 675.67 675.55 675.42 675.30 675.17 675.04
675.96
4.4% 3.9% 3.5% 3.2% 2.9% 3.0% ??? 3.3% 2.8% 2.0%
674.99 +06.2 675.03 HP 674.96 LP 674.93 674.80 674.71
673.87 673.98 673.83 673.70 673.57 673.44 673.31
674.15 674.12
2.0%

672.87 672.97 672.73 672.48 672.24 672.00 671.75 671.57 672.07 671.76 671.69 671.53 671.47 670.73
673.17 672.19 671.92 671.66 671.39 671.11 671.08
672.72 672.45
672.63 672.51 672.29 672.02 671.74 671.41 671.08 670.73 670.69
2.0% 2.1% 2.3% 2.6% 2.8% 3.0%
388+00 389+00
671.08
REJECT GUTTER
670.37 LP

N 66th STREET

STH 100 EB

COMMERCIAL
DRIVEWAY

N

STH 100 WB

670.09 669.98 669.57 669.12 668.68 668.25 667.86 667.48 667.19 667.14 667.07 REJECT GUTTER
669.66 669.33 668.15 667.37 667.01 666.86
669.75 669.29 668.94 668.55 667.76 666.95
390+00 391+00 392+00
669.34 669.21 668.70 668.31 667.91 667.52 667.13 666.74 666.50
669.28 669.09 668.85 669.10 669.06 669.13 666.46 LP
PAVEMENT SWALE
2.4% 0.0% 2.0% 2.0% 1.8% 1.5%
666.62 666.71 666.54 666.38 666.21 666.05 666.01 665.92
+46.6 666.73 HP
0.1% 1.9% 1.4% 1.4% 1.6% 1.0%
393+00 394+00 395+00

STH 100 EB

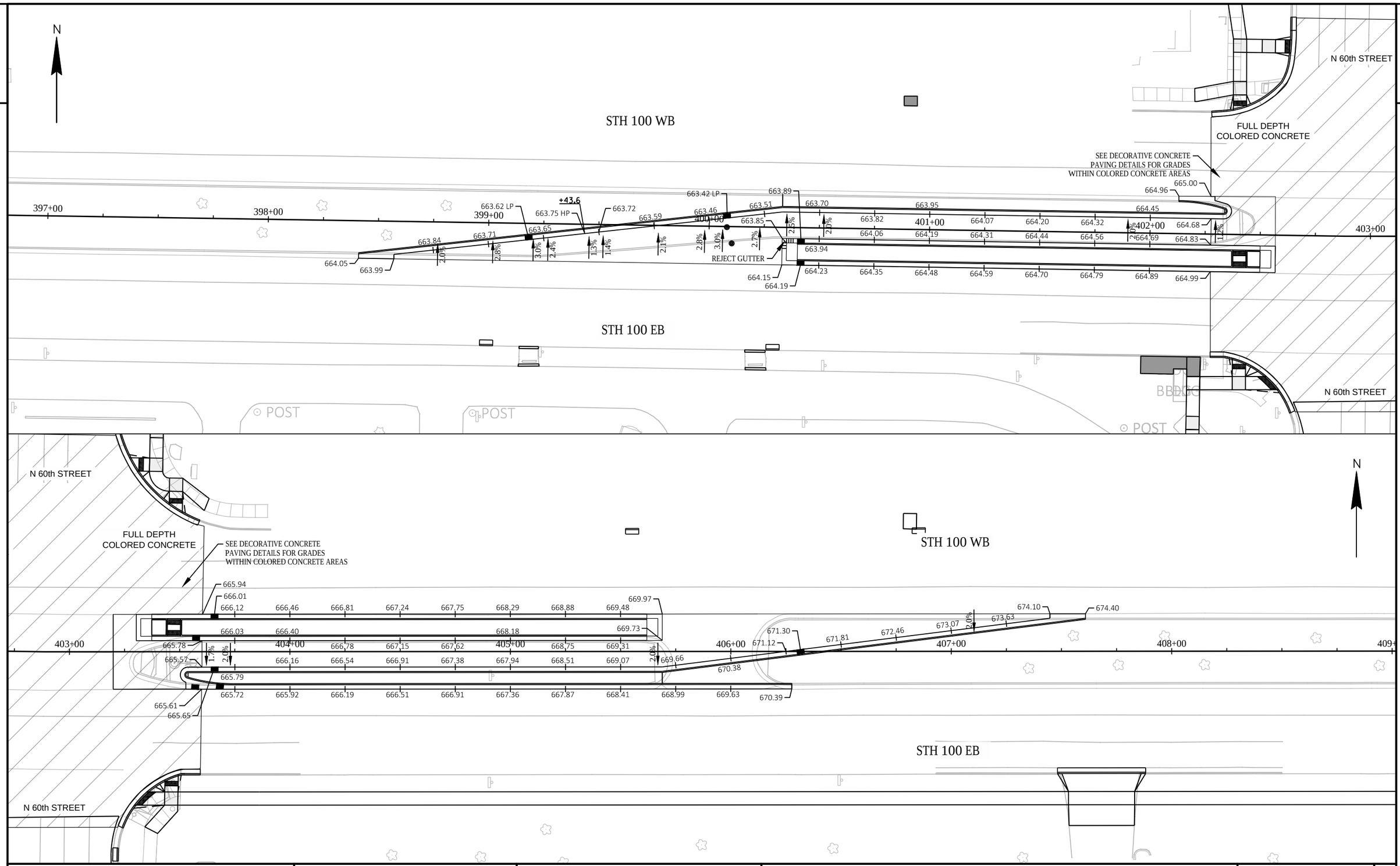
N 64th STREET

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 136	E

FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\021901-PG.DWG
LAYOUT NAME - 03

PLOT DATE : 10/26/2020 12:29 PM PLOT BY : BLACKWOOD, JIM PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 137	E

FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\021901-PG.DWG
LAYOUT NAME - 04

PLOT DATE : 10/26/2020 12:29 PM PLOT BY : BLACKWOOD, JIM PLOT NAME : PLOT SCALE : 1 IN:40 FT

NOTES:

1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.

2) PAVING GRADES ARE GIVEN AT 25' INTERVALS.

N

PARK PLAZA COURT

382+14.04, -57.82' LT

383+90.51, -58.07' LT

66TH STREET

STH 100

POST

POST

GV

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 138	E

NOTES:

1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.

2) PAVING GRADES ARE GIVEN AT 25' INTERVALS.

N

60TH STREET

60TH STREET

402+26.01, -58.63' LT

403+61.91, -61.11' LT

402

403

404

BLDG

POST

36-inch

XXXX XXXX XXXX XXXX XXXX XXXX

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 139	E

FILE NAME : S:\MILW_CO\BROWN_DEER\GOV\180459 BROWN DEER STREETSCAPE\DESIGN\PLANSHEETS\021250_PG.DWG
LAYOUT NAME - 021252_pg
PLOT DATE : 10/21/2020 11:09 AM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42

NOTES:

1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.

2) PAVING GRADES ARE GIVEN AT 25' INTERVALS.

N

51ST STREET

STH 100

428+96.91, -58.03' LT

430+29.31, -58.06' LT

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 140 E

LEGEND

- TOPSOIL, LAWN SOD, FERTILIZER, AND SOD WATER
- TOPSOIL, SEED, FERTILIZER, EROSION MAT URBAN CLASS I TYPE B, AND SEED WATER
- FLOW ARROW
- INLET PROTECTION TYPE (X)
- SILT FENCE

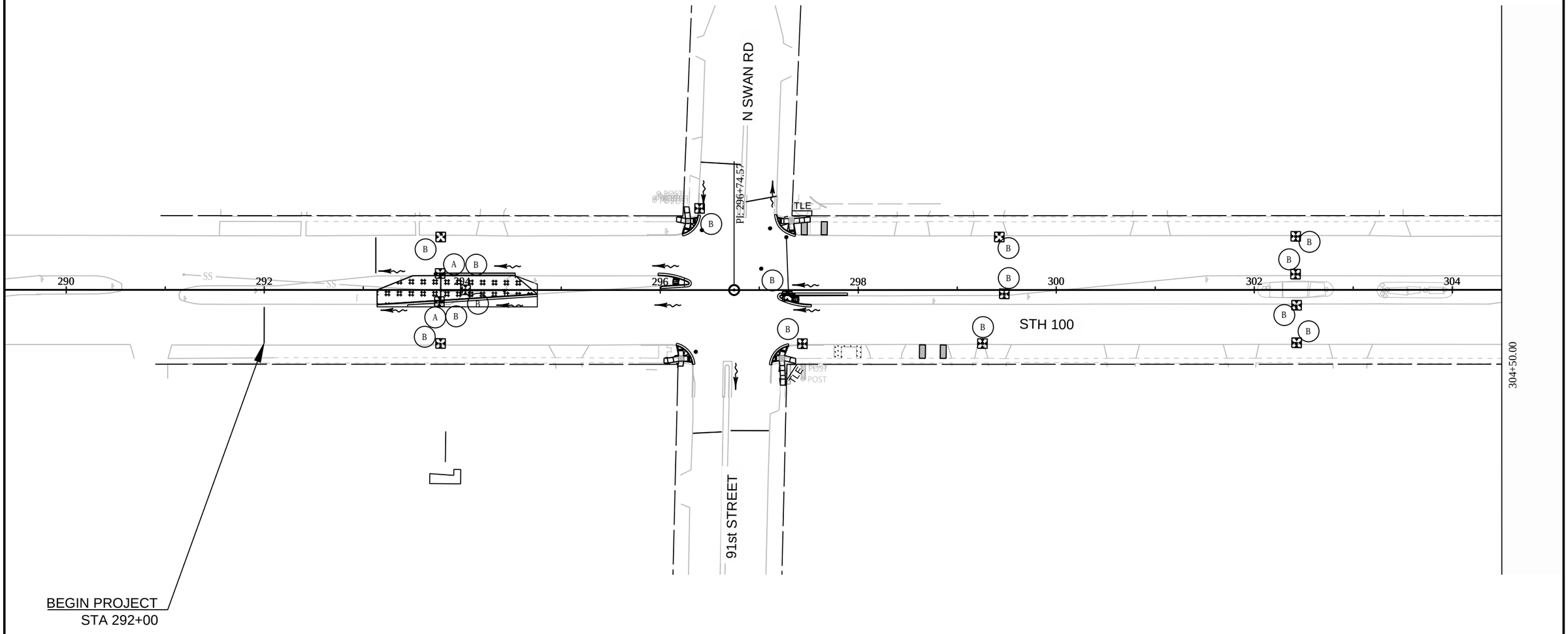
NOTES

USE INLET PROTECTION TYPE A PRIOR TO PLACEMENT OF CURB & GUTTER. USE INLET PROTECTION TYPE B, C, OR TYPE D AFTER PLACEMENT OF CURB & GUTTER.

PERMANENT EROSION CONTROL AT CURB RAMPS SHOWN ON CURB RAMP DETAILS.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

N



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 141	E

LEGEND

- TOPSOIL, LAWN SOD, FERTILIZER, AND SOD WATER
- TOPSOIL, SEED, FERTILIZER, EROSION MAT URBAN CLASS I TYPE B, AND SEED WATER
- FLOW ARROW
- INLET PROTECTION TYPE (X)
- SILT FENCE

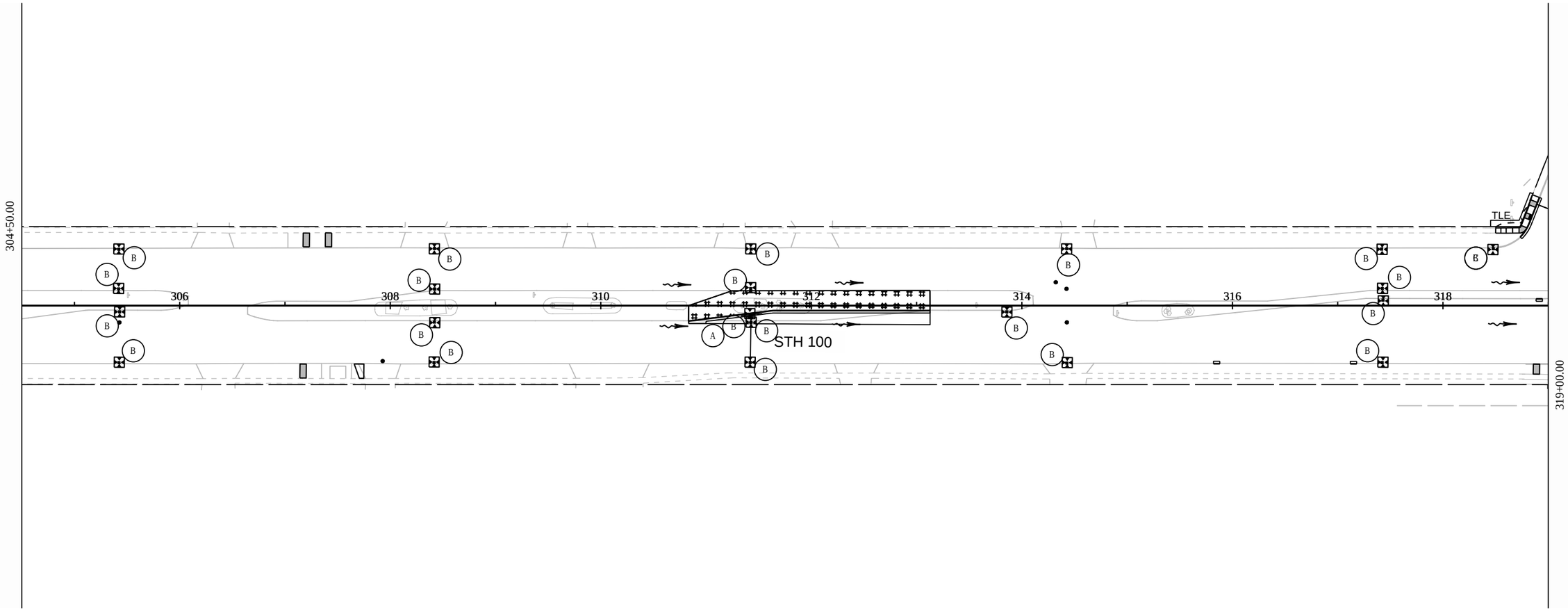
NOTES

USE INLET PROTECTION TYPE A PRIOR TO PLACEMENT OF CURB & GUTTER. USE INLET PROTECTION TYPE B, C, OR TYPE D AFTER PLACEMENT OF CURB & GUTTER.

PERMANENT EROSION CONTROL AT CURB RAMPS SHOWN ON CURB RAMP DETAILS.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

N



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 142	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 02

PLOT DATE : 11/18/2020 7:28 AM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:100 FT

LEGEND

- TOPSOIL, LAWN SOD, FERTILIZER, AND SOD WATER
- TOPSOIL, SEED, FERTILIZER, EROSION MAT URBAN CLASS I TYPE B, AND SEED WATER
- FLOW ARROW
- INLET PROTECTION TYPE (X)
- SILT FENCE

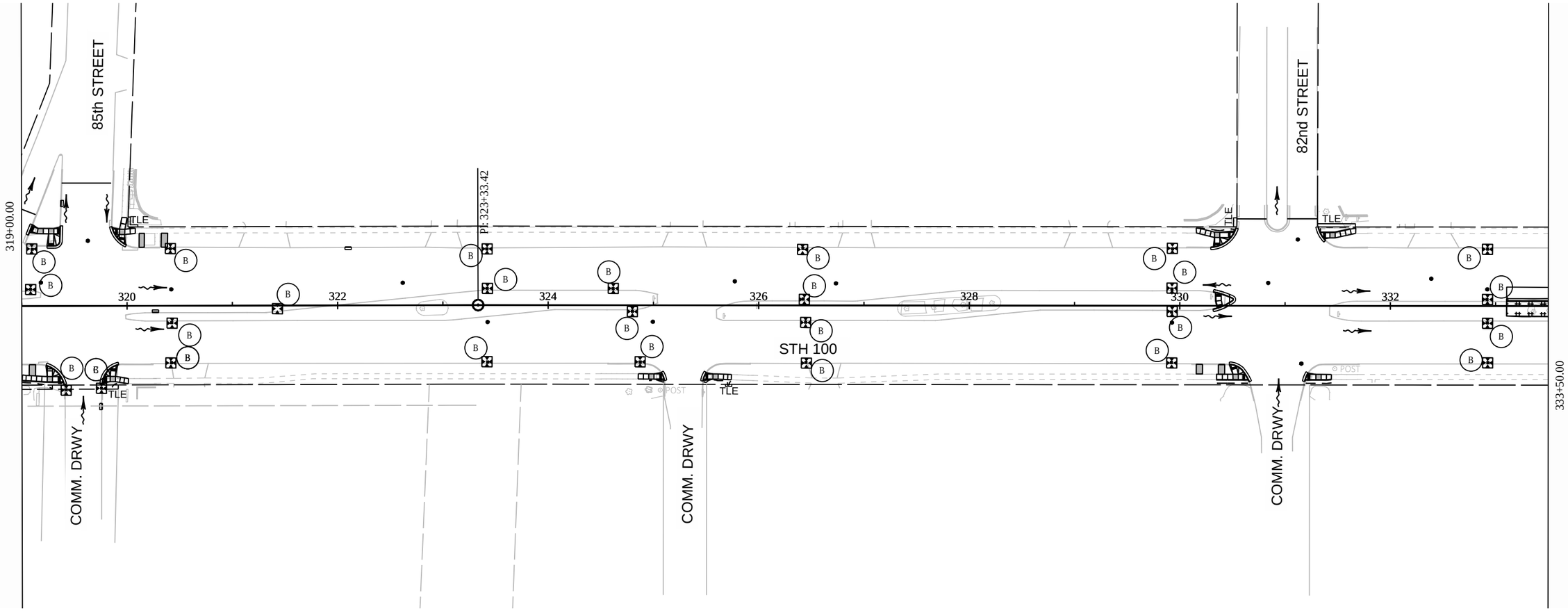
NOTES

USE INLET PROTECTION TYPE A PRIOR TO PLACEMENT OF CURB & GUTTER. USE INLET PROTECTION TYPE B, C, OR TYPE D AFTER PLACEMENT OF CURB & GUTTER.

PERMANENT EROSION CONTROL AT CURB RAMPS SHOWN ON CURB RAMP DETAILS.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

N



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 143	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 03

PLOT DATE : 11/18/2020 7:28 AM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:100 FT

LEGEND

- TOPSOIL, LAWN SOD, FERTILIZER, AND SOD WATER
- TOPSOIL, SEED, FERTILIZER, EROSION MAT URBAN CLASS I TYPE B, AND SEED WATER
- FLOW ARROW
- INLET PROTECTION TYPE (X)
- SILT FENCE

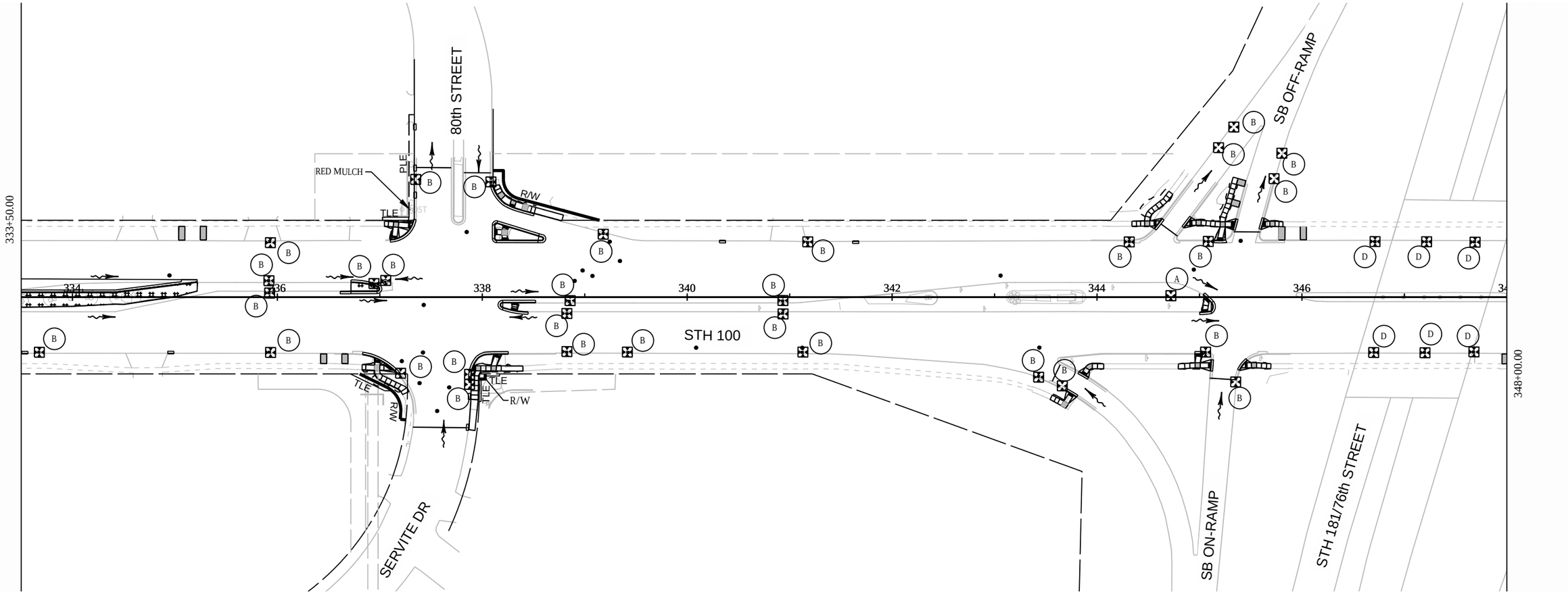
NOTES

USE INLET PROTECTION TYPE A PRIOR TO PLACEMENT OF CURB & GUTTER. USE INLET PROTECTION TYPE B, C, OR TYPE D AFTER PLACEMENT OF CURB & GUTTER.

PERMANENT EROSION CONTROL AT CURB RAMPS SHOWN ON CURB RAMP DETAILS.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

N



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 144	E

FILE NAME : N:\PDS\C3D\215000001\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 04

PLOT DATE : 11/18/2020 7:28 AM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

LEGEND

- TOPSOIL, LAWN SOD, FERTILIZER, AND SOD WATER
- TOPSOIL, SEED, FERTILIZER, EROSION MAT URBAN CLASS I TYPE B, AND SEED WATER
- FLOW ARROW
- INLET PROTECTION TYPE (X)
- SILT FENCE

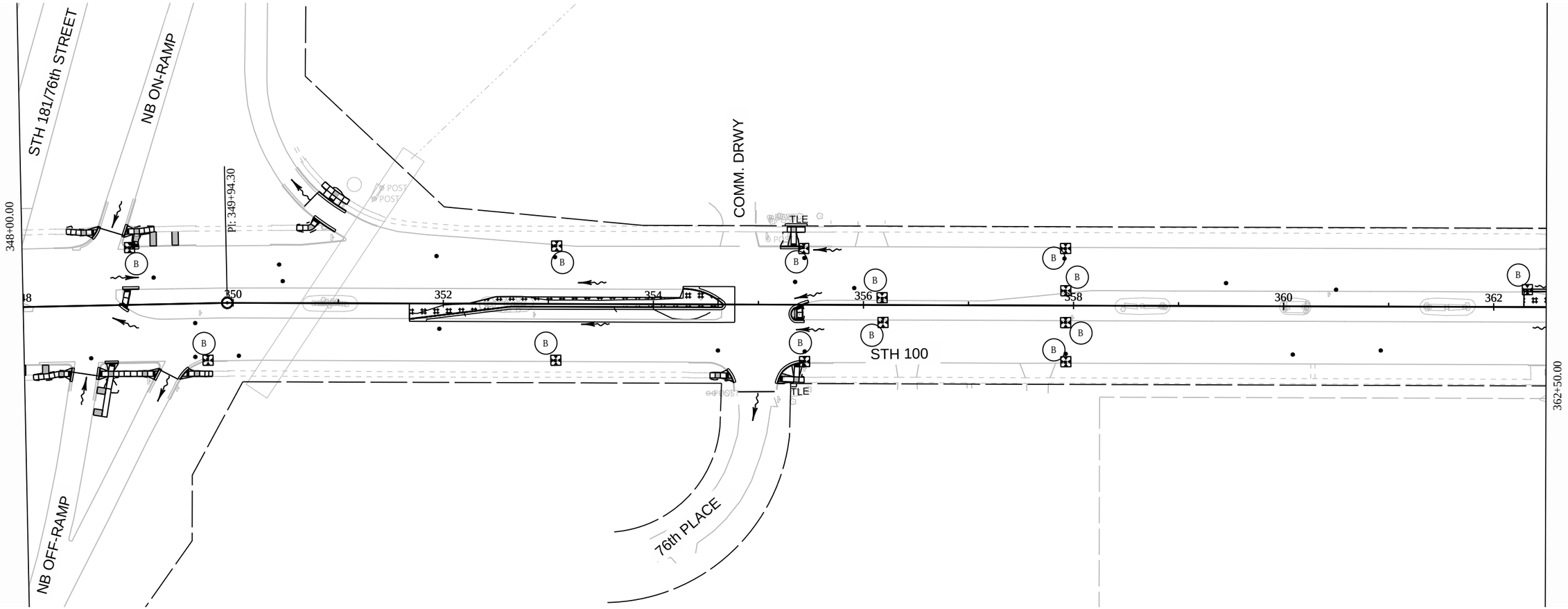
NOTES

USE INLET PROTECTION TYPE A PRIOR TO PLACEMENT OF CURB & GUTTER. USE INLET PROTECTION TYPE B, C, OR TYPE D AFTER PLACEMENT OF CURB & GUTTER.

PERMANENT EROSION CONTROL AT CURB RAMPS SHOWN ON CURB RAMP DETAILS.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

N



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 145	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 05

PLOT DATE : 11/18/2020 7:28 AM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

LEGEND

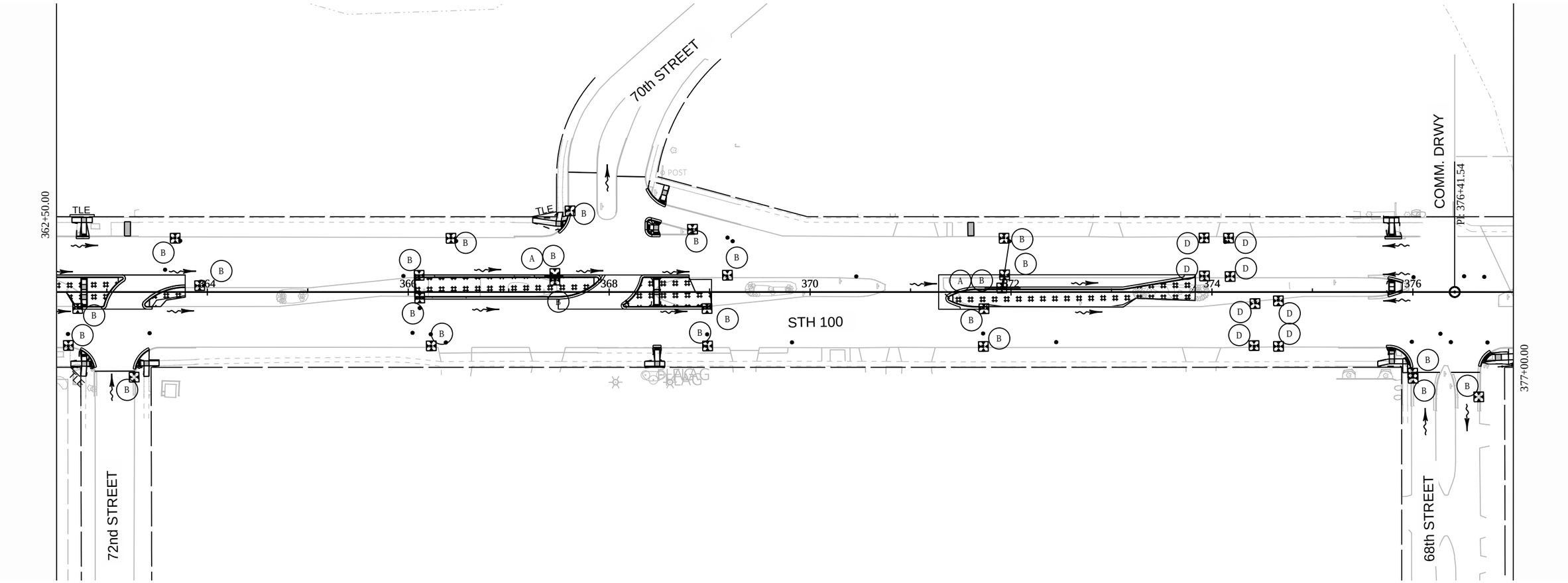
- TOPSOIL, LAWN SOD, FERTILIZER, AND SOD WATER
- TOPSOIL, SEED, FERTILIZER, EROSION MAT URBAN CLASS I TYPE B, AND SEED WATER
- FLOW ARROW
- INLET PROTECTION TYPE (X)
- SILT FENCE

NOTES

USE INLET PROTECTION TYPE A PRIOR TO PLACEMENT OF CURB & GUTTER. USE INLET PROTECTION TYPE B, C, OR TYPE D AFTER PLACEMENT OF CURB & GUTTER.

PERMANENT EROSION CONTROL AT CURB RAMPS SHOWN ON CURB RAMP DETAILS.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 146	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 06

PLOT DATE : 11/18/2020 7:28 AM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

LEGEND

- TOPSOIL, LAWN SOD, FERTILIZER, AND SOD WATER
- TOPSOIL, SEED, FERTILIZER, EROSION MAT URBAN CLASS I TYPE B, AND SEED WATER
- FLOW ARROW
- INLET PROTECTION TYPE (X)
- SILT FENCE

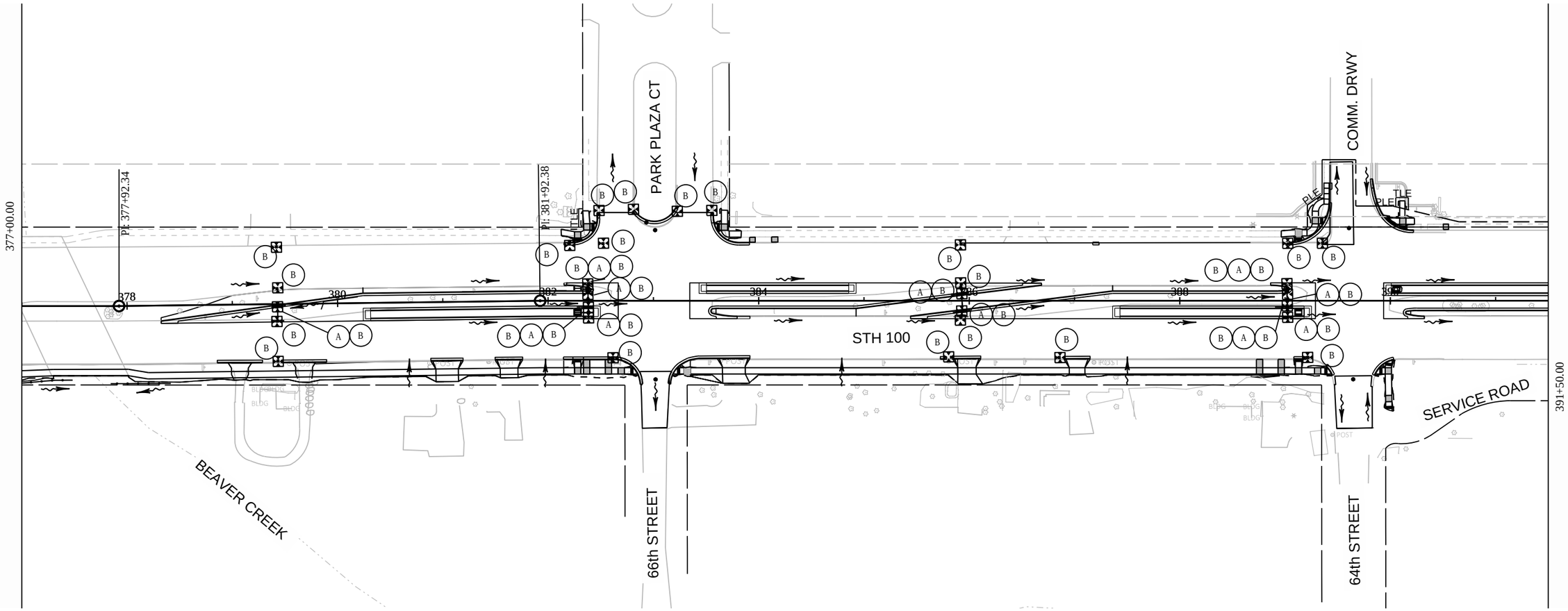
NOTES

USE INLET PROTECTION TYPE A PRIOR TO PLACEMENT OF CURB & GUTTER. USE INLET PROTECTION TYPE B, C, OR TYPE D AFTER PLACEMENT OF CURB & GUTTER.

PERMANENT EROSION CONTROL AT CURB RAMPS SHOWN ON CURB RAMP DETAILS.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

N



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 147	E

FILE NAME : N:\PDS\C3D\215000001\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 07

PLOT DATE : 11/18/2020 7:29 AM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- TOPSOIL, LAWN SOD, FERTILIZER, AND SOD WATER
- TOPSOIL, SEED, FERTILIZER, EROSION MAT URBAN CLASS I TYPE B, AND SEED WATER
- FLOW ARROW
- INLET PROTECTION TYPE (X)
- SILT FENCE

NOTES

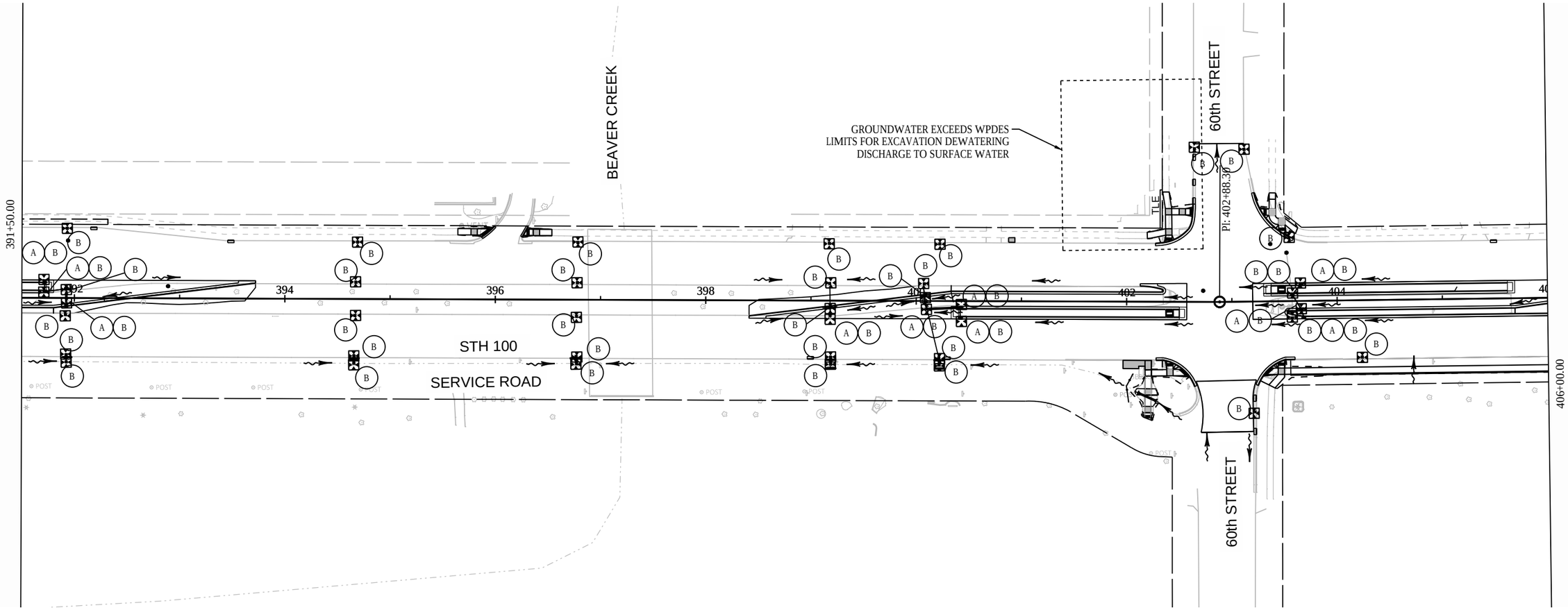
USE INLET PROTECTION TYPE A PRIOR TO PLACEMENT OF CURB & GUTTER. USE INLET PROTECTION TYPE B, C, OR TYPE D AFTER PLACEMENT OF CURB & GUTTER.

PERMANENT EROSION CONTROL AT CURB RAMPS SHOWN ON CURB RAMP DETAILS.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

N

2



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 148	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 08

PLOT DATE : 11/18/2020 7:29 AM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:100 FT

LEGEND

- TOPSOIL, LAWN SOD, FERTILIZER, AND SOD WATER
- TOPSOIL, SEED, FERTILIZER, EROSION MAT URBAN CLASS I TYPE B, AND SEED WATER
- FLOW ARROW
- INLET PROTECTION TYPE (X)
- SILT FENCE

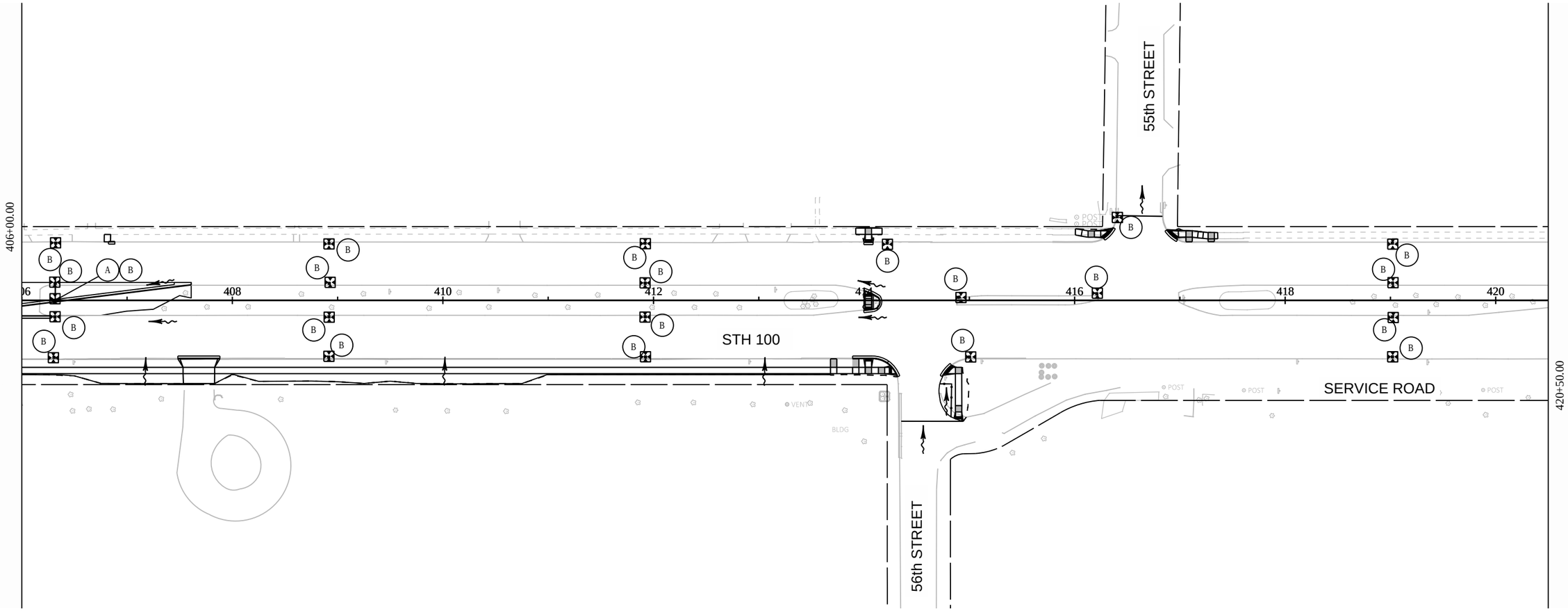
NOTES

USE INLET PROTECTION TYPE A PRIOR TO PLACEMENT OF CURB & GUTTER. USE INLET PROTECTION TYPE B, C, OR TYPE D AFTER PLACEMENT OF CURB & GUTTER.

PERMANENT EROSION CONTROL AT CURB RAMPS SHOWN ON CURB RAMP DETAILS.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

N



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 149	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 09

PLOT DATE : 11/18/2020 7:29 AM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- TOPSOIL, LAWN SOD, FERTILIZER, AND SOD WATER
- TOPSOIL, SEED, FERTILIZER, EROSION MAT URBAN CLASS I TYPE B, AND SEED WATER
- FLOW ARROW
- INLET PROTECTION TYPE (X)
- SILT FENCE

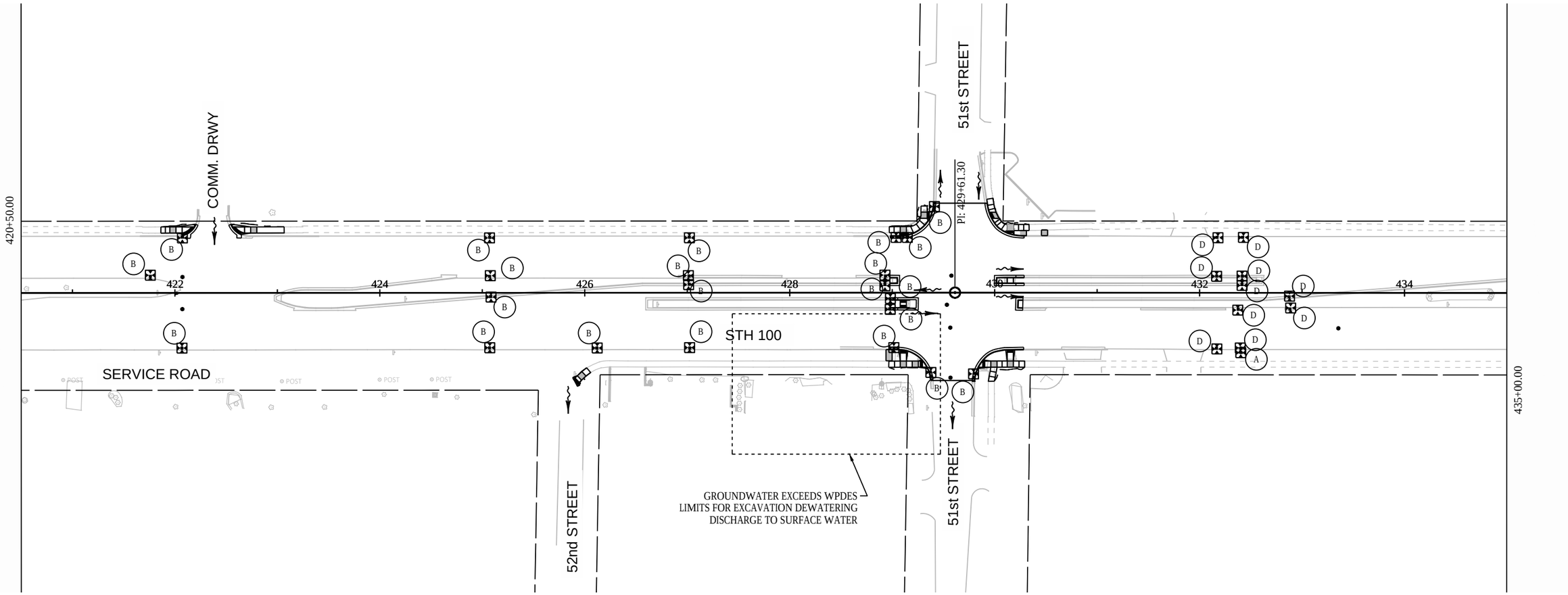
NOTES

USE INLET PROTECTION TYPE A PRIOR TO PLACEMENT OF CURB & GUTTER. USE INLET PROTECTION TYPE B, C, OR TYPE D AFTER PLACEMENT OF CURB & GUTTER.

PERMANENT EROSION CONTROL AT CURB RAMPS SHOWN ON CURB RAMP DETAILS.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

N



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 150	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 10

PLOT DATE : 11/18/2020 7:29 AM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- TOPSOIL, LAWN SOD, FERTILIZER, AND SOD WATER
- TOPSOIL, SEED, FERTILIZER, EROSION MAT URBAN CLASS I TYPE B, AND SEED WATER
- FLOW ARROW
- INLET PROTECTION TYPE (X)
- SILT FENCE

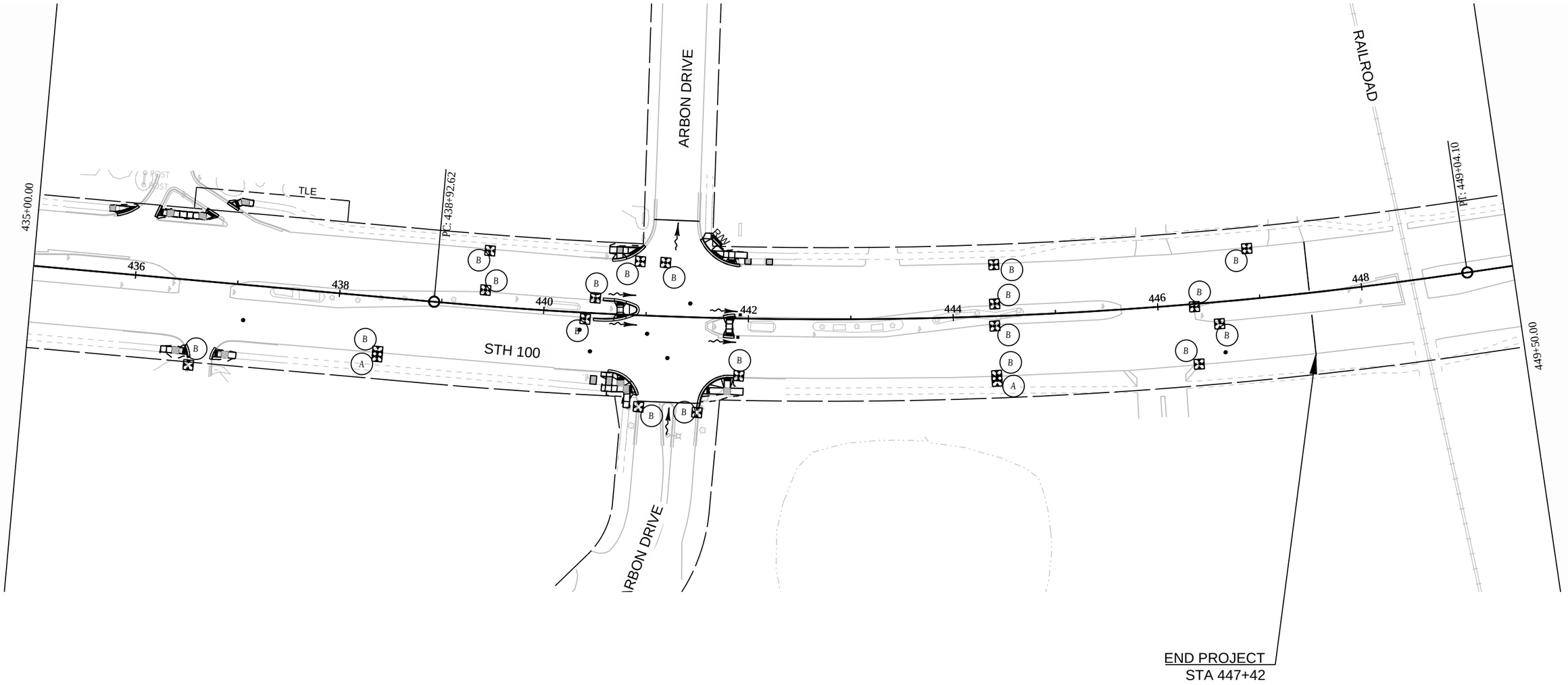
NOTES

USE INLET PROTECTION TYPE A PRIOR TO PLACEMENT OF CURB & GUTTER. USE INLET PROTECTION TYPE B, C, OR TYPE D AFTER PLACEMENT OF CURB & GUTTER.

PERMANENT EROSION CONTROL AT CURB RAMPS SHOWN ON CURB RAMP DETAILS.

SEE CONSTRUCTION DETAILS FOR EROSION CONTROL AT INLETS, BUS STOPS AND DRIVEWAY APPROACHES.

N

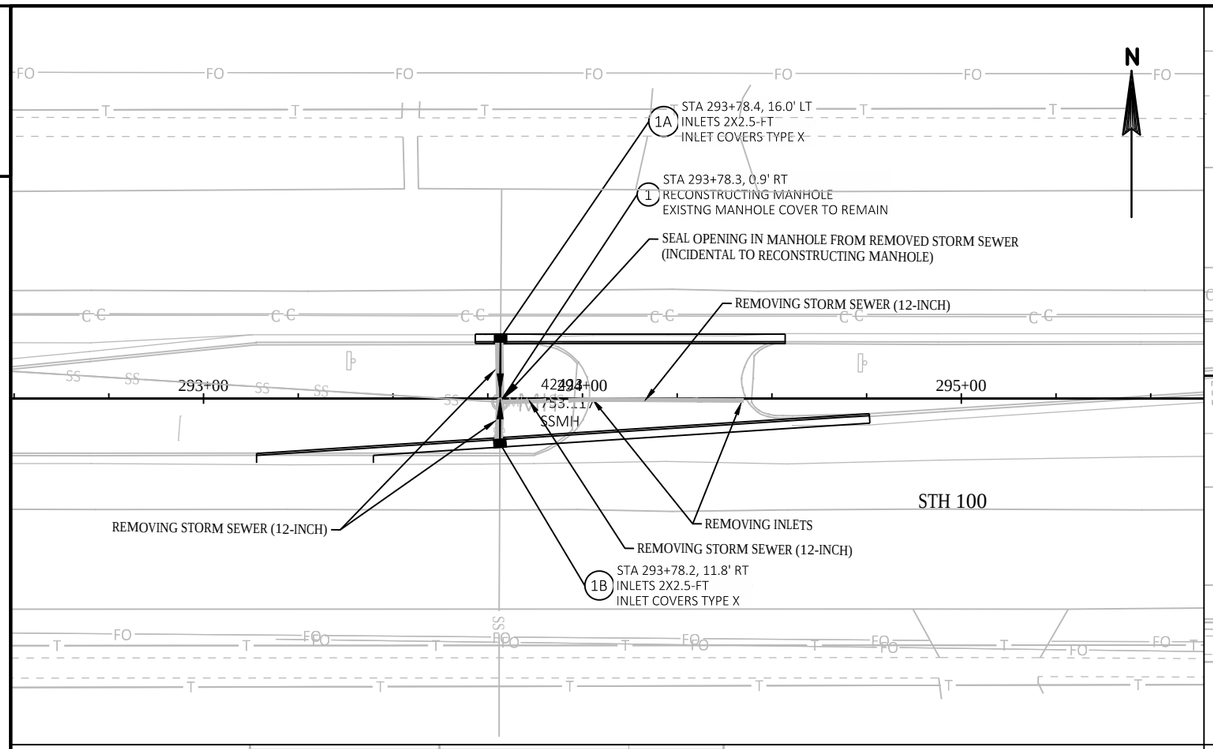


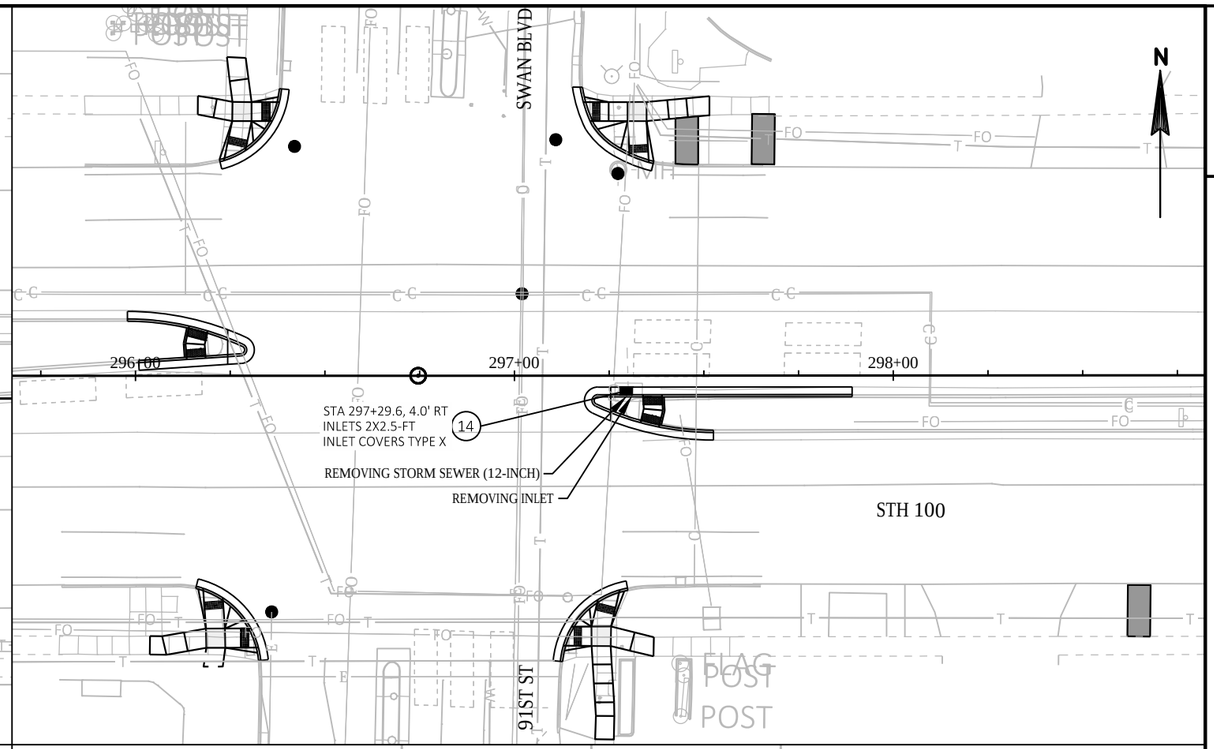
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 151	E

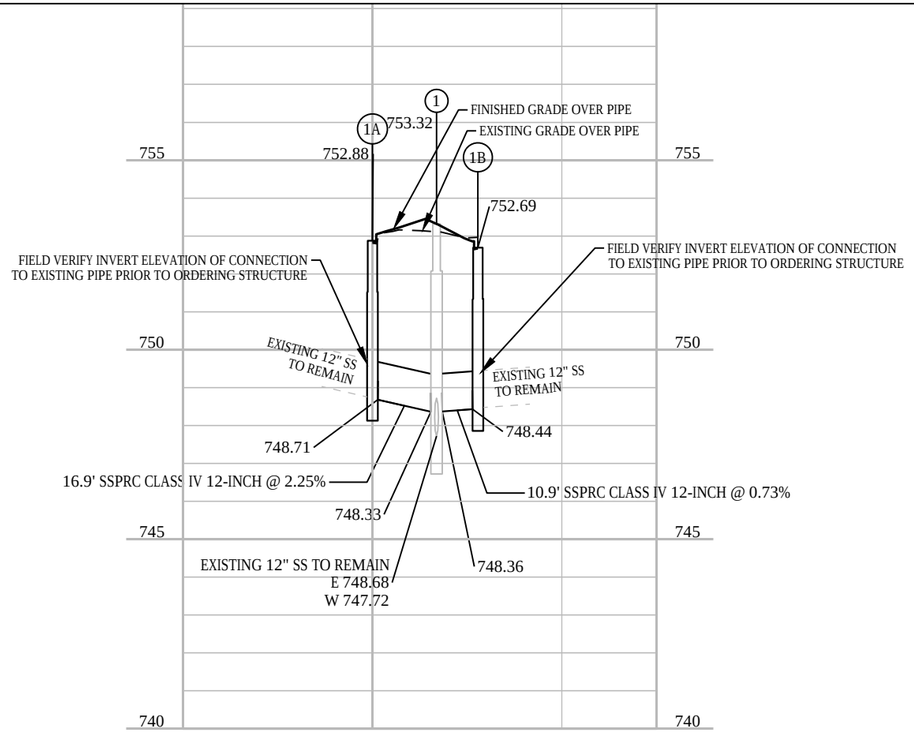
FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 11

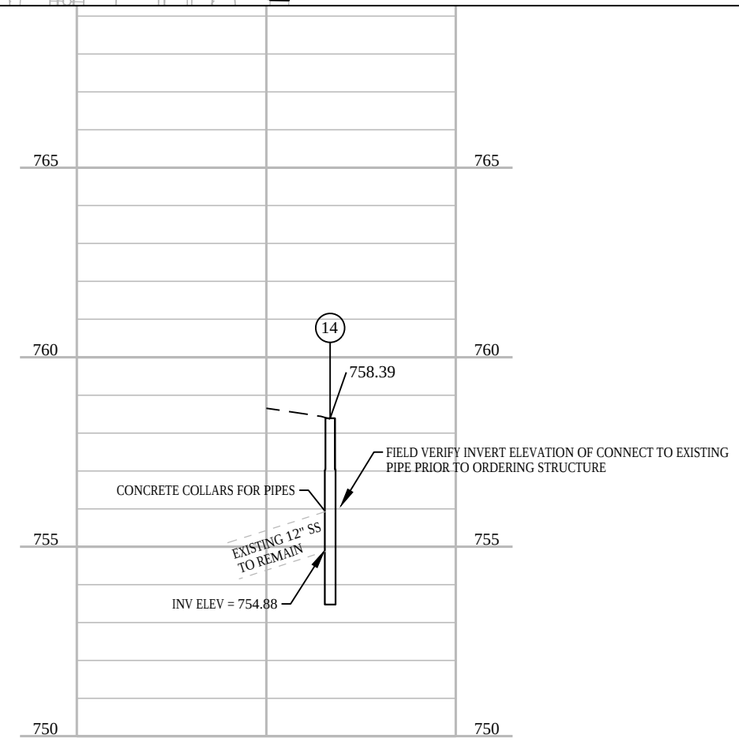
PLOT DATE : 11/18/2020 7:30 AM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42



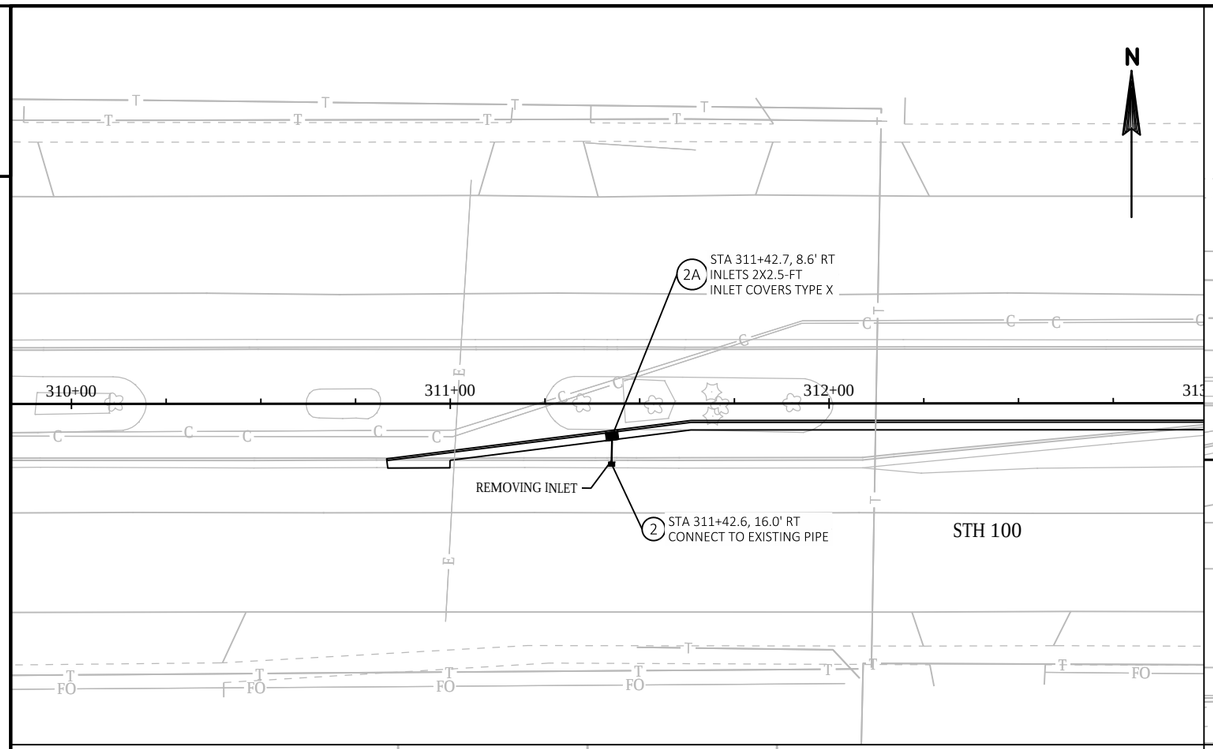


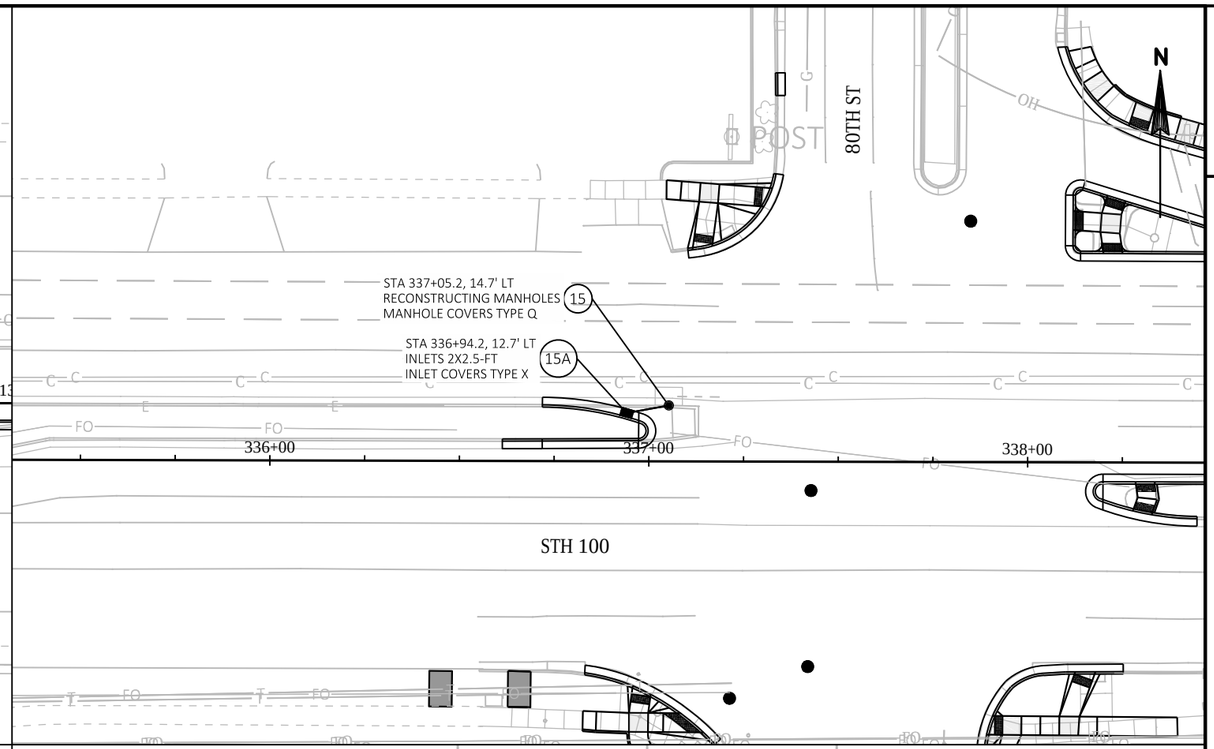


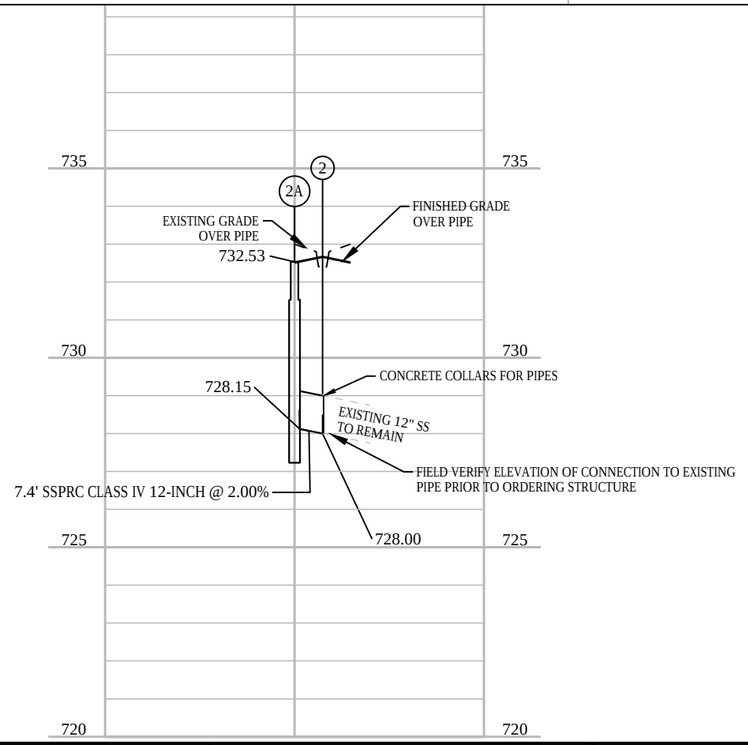


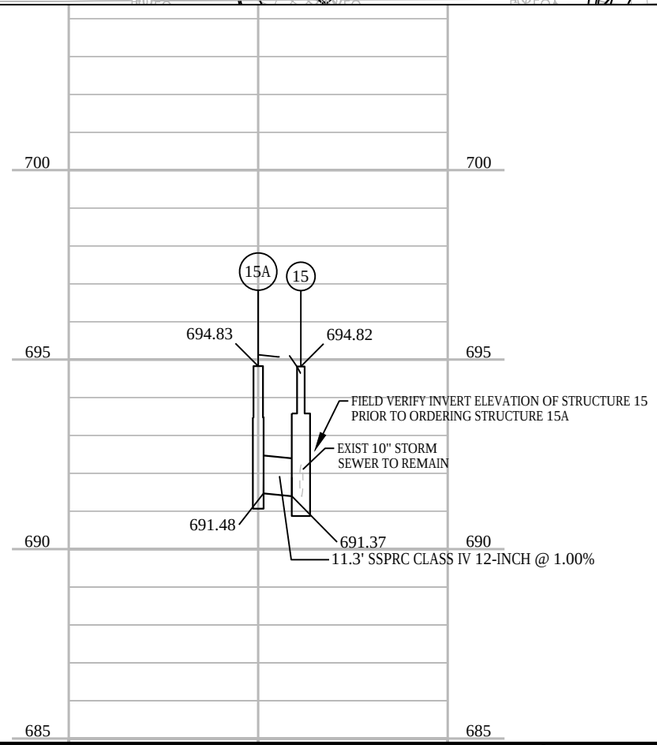
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	STORM SEWER	SHEET 152	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 01
PLOT DATE : 11/2/2020 4:14 PM
PLOT BY : SCHMIDT, JUDENE M
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 41



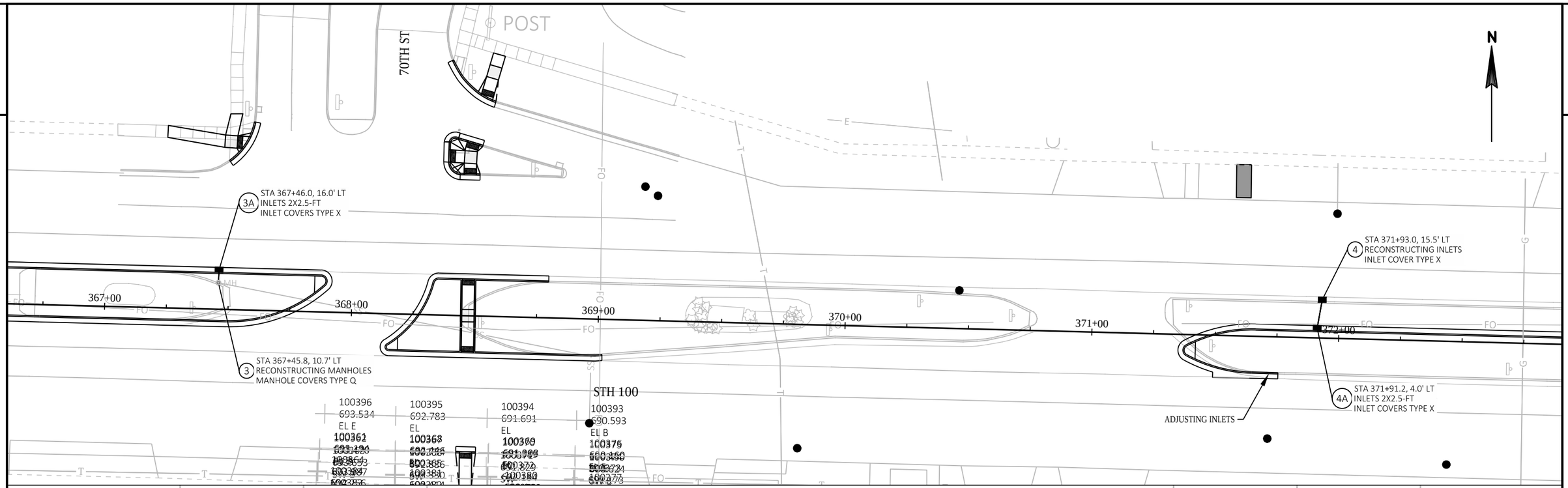


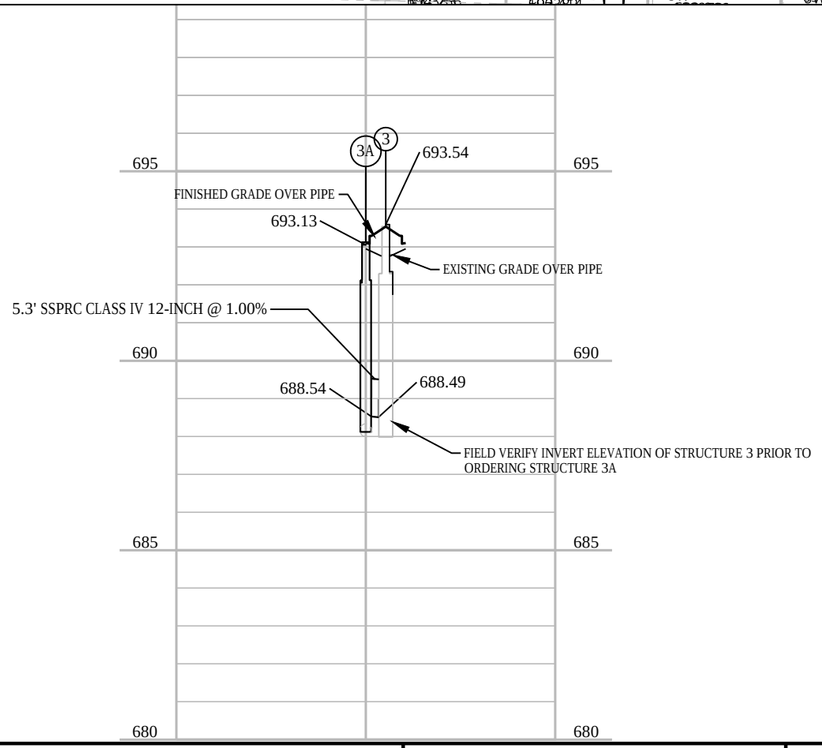


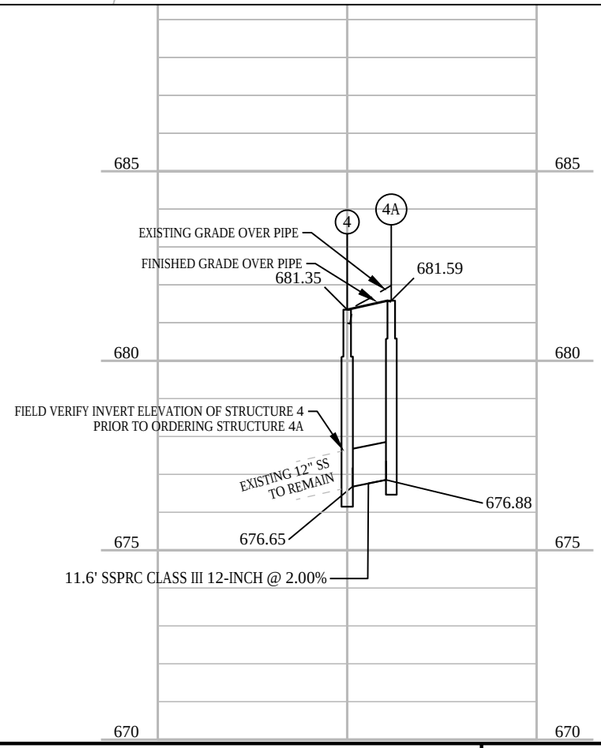


PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	STORM SEWER	SHEET 153	E

2

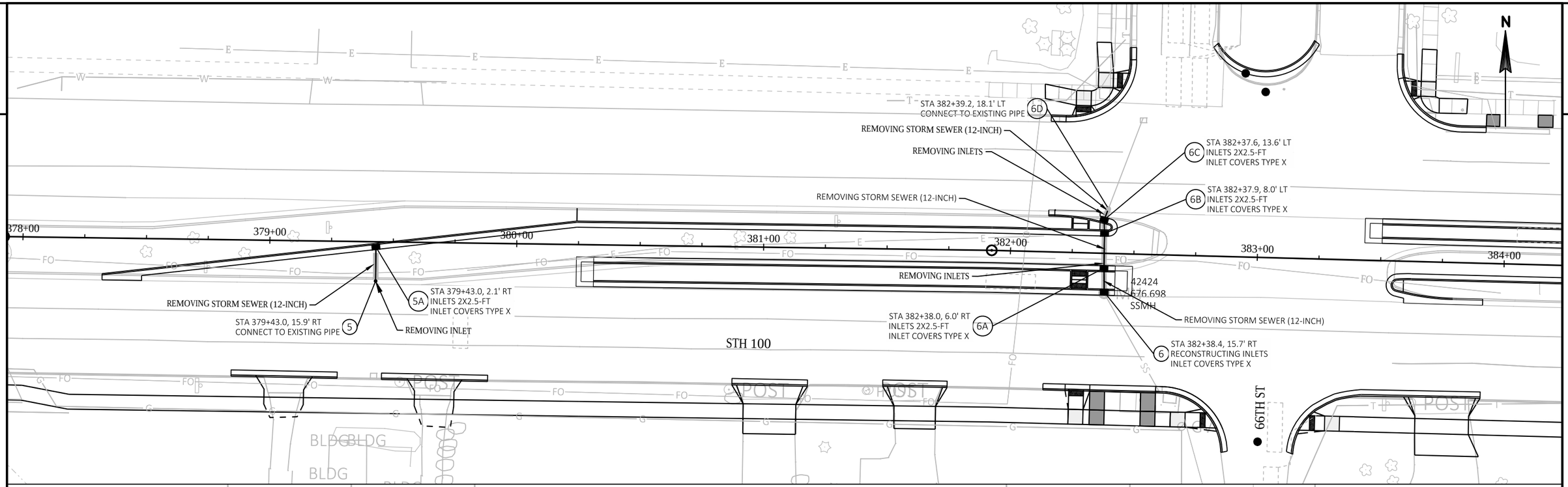


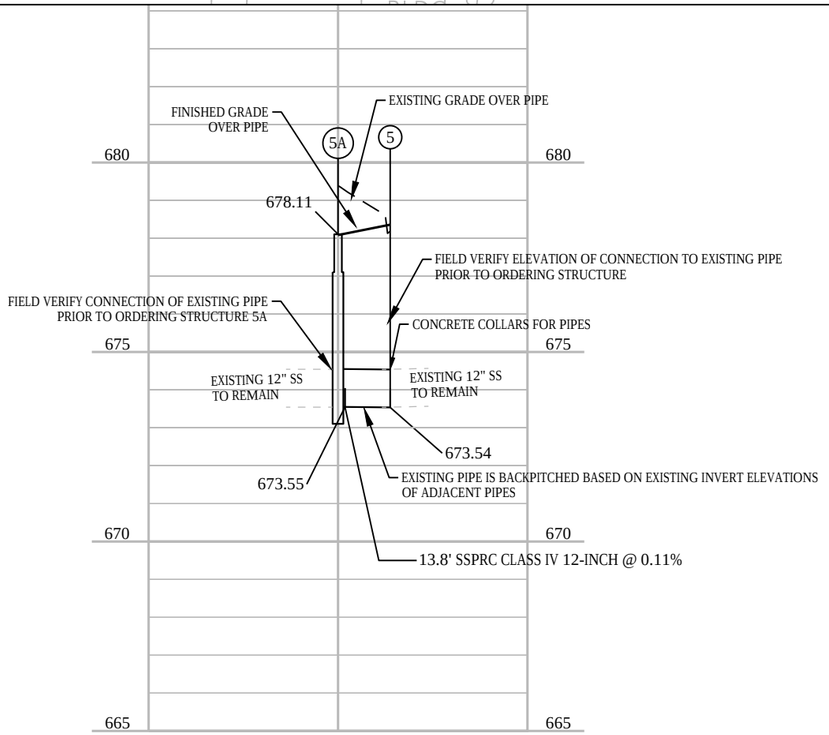


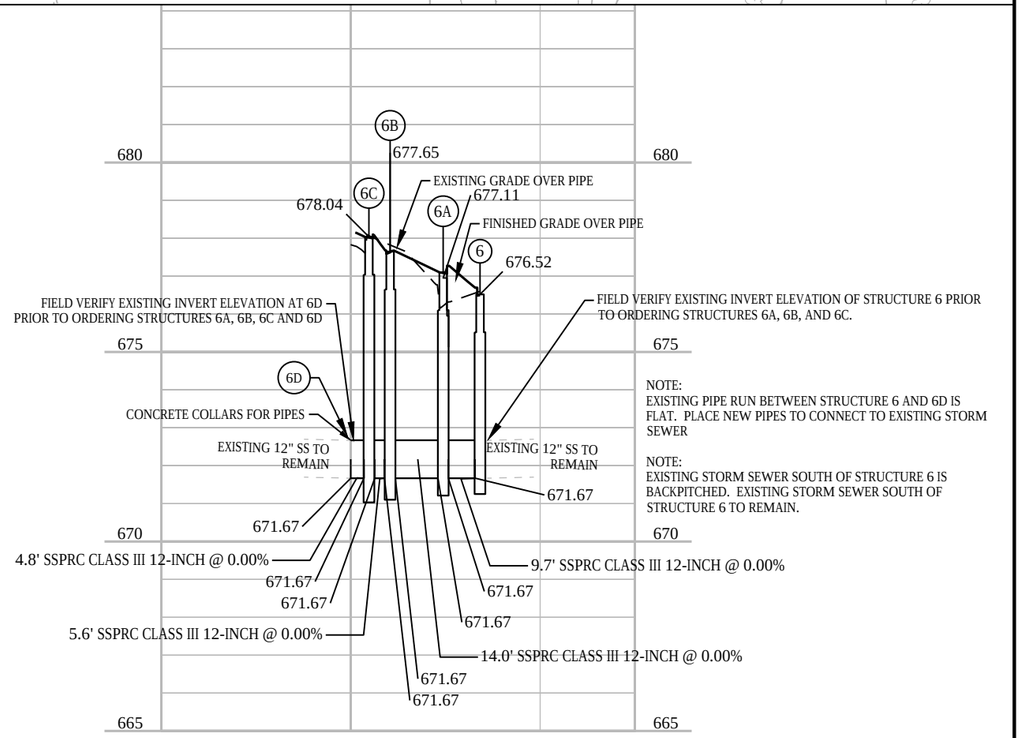


PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	STORM SEWER	SHEET 154	E

2

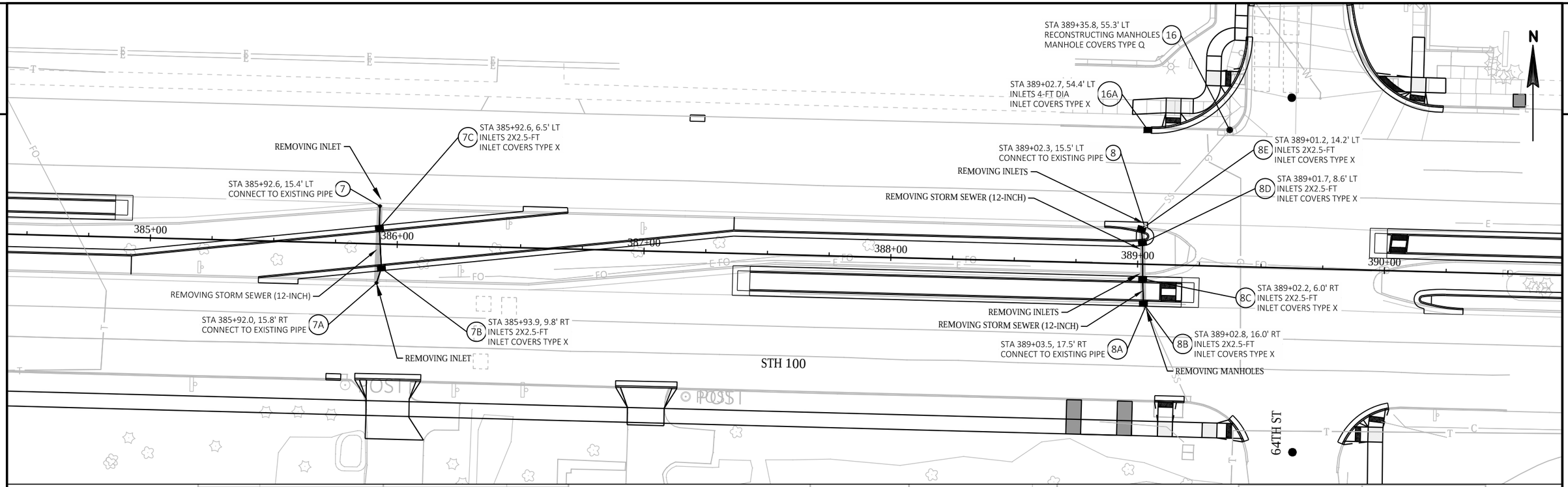


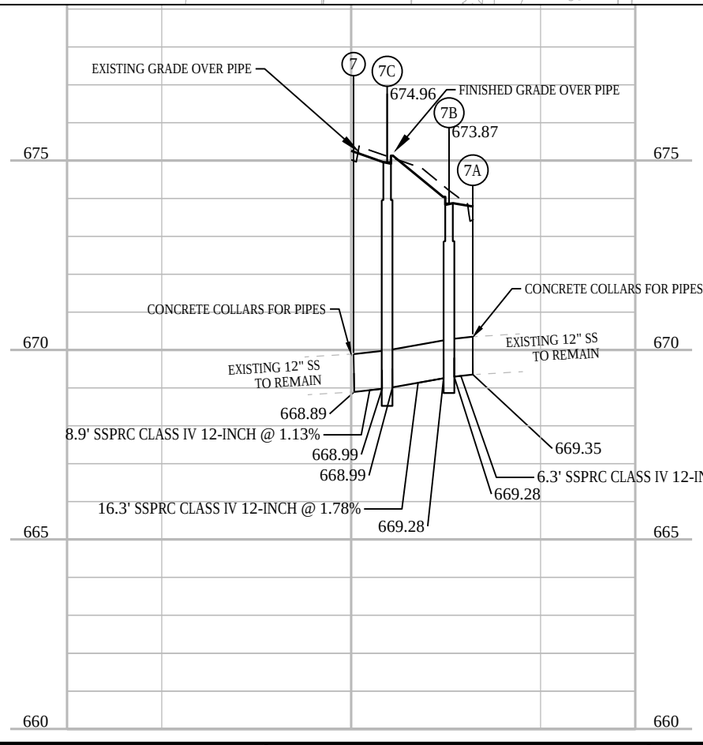


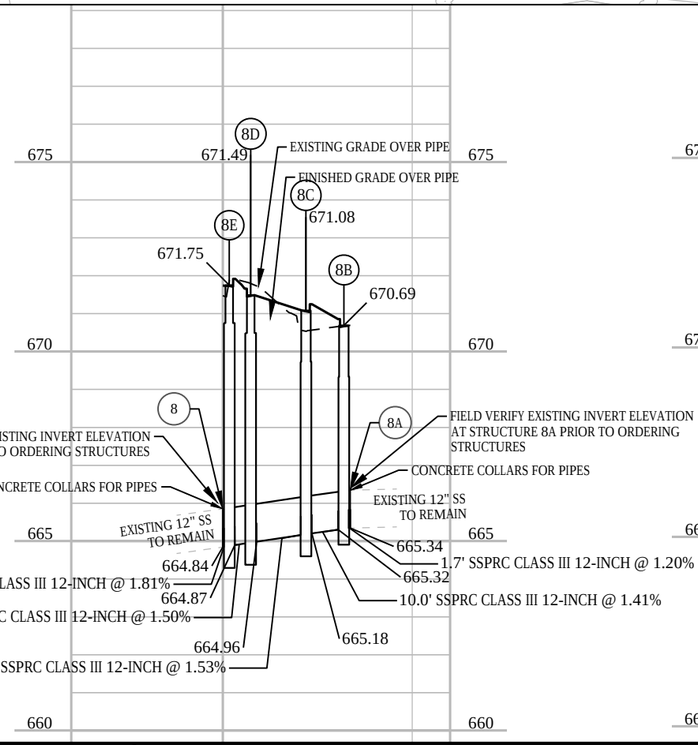


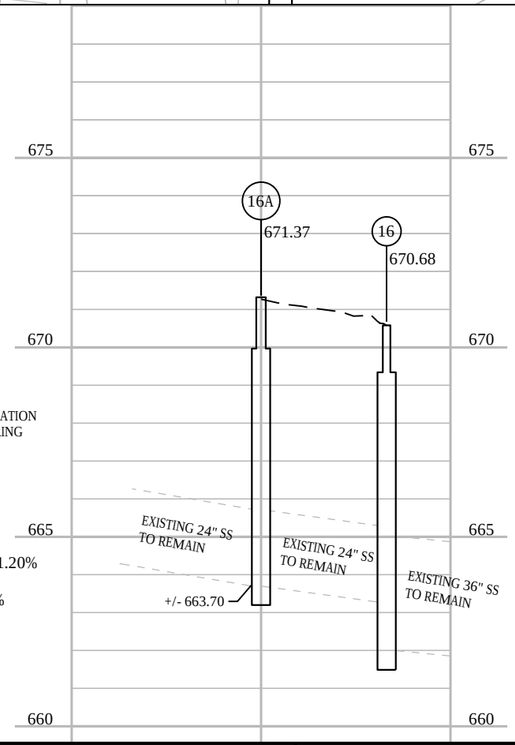
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	STORM SEWER	SHEET 155	E

2





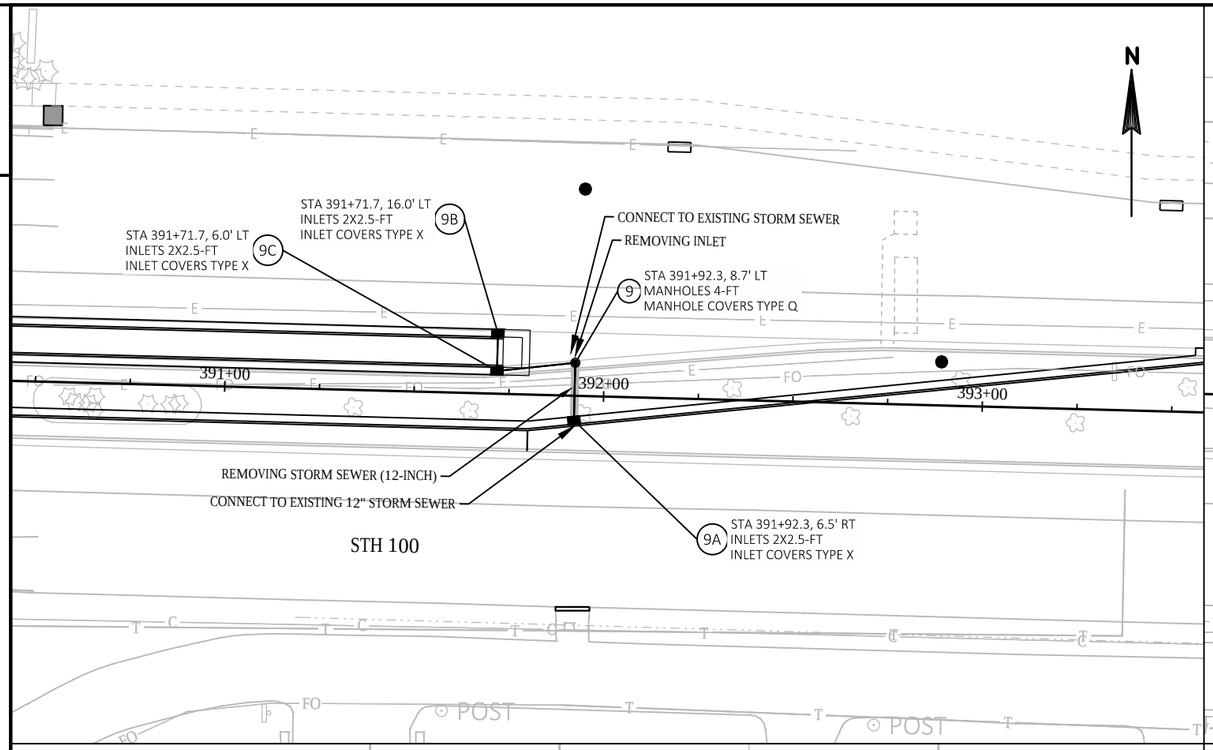


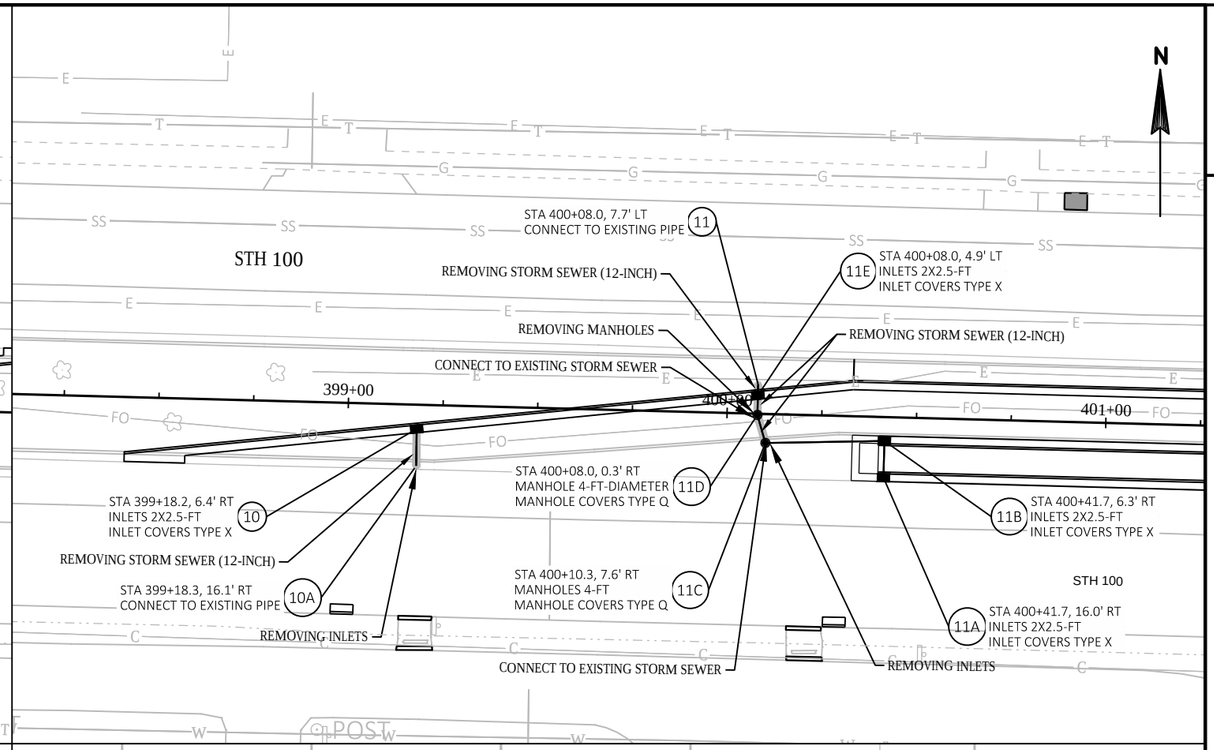


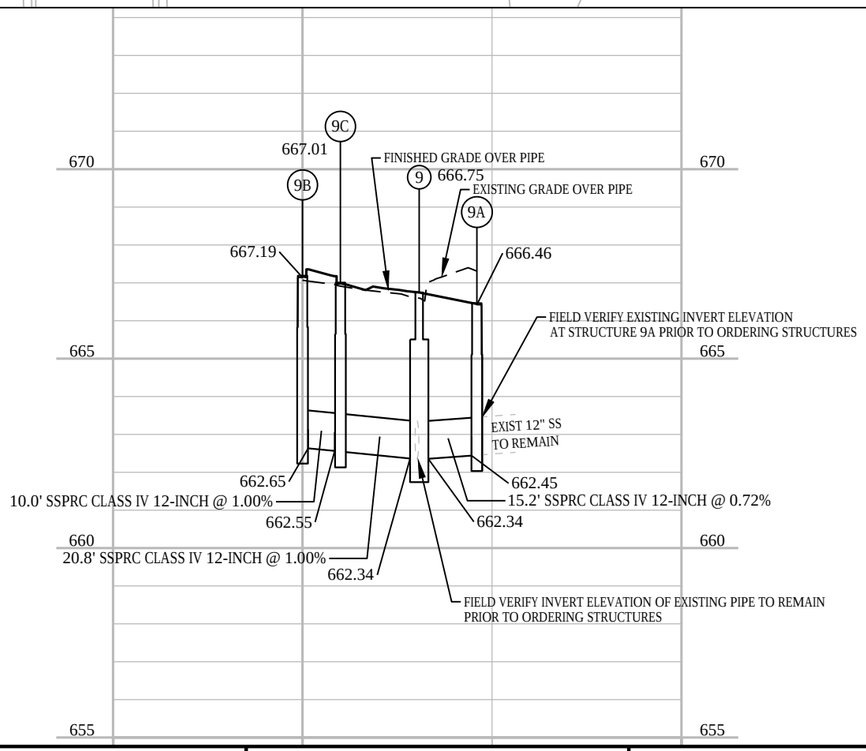
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	STORM SEWER	SHEET 156	E

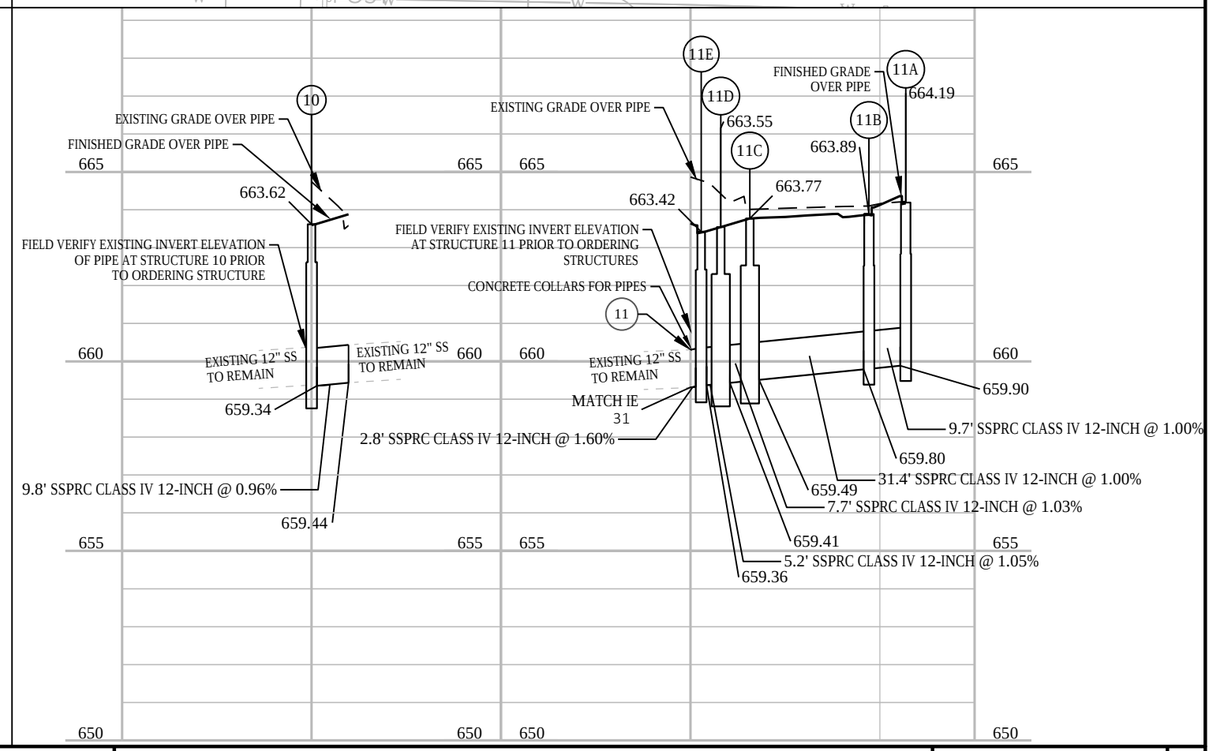
FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 04

PLOT DATE : 11/2/2020 4:16 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:40 FT



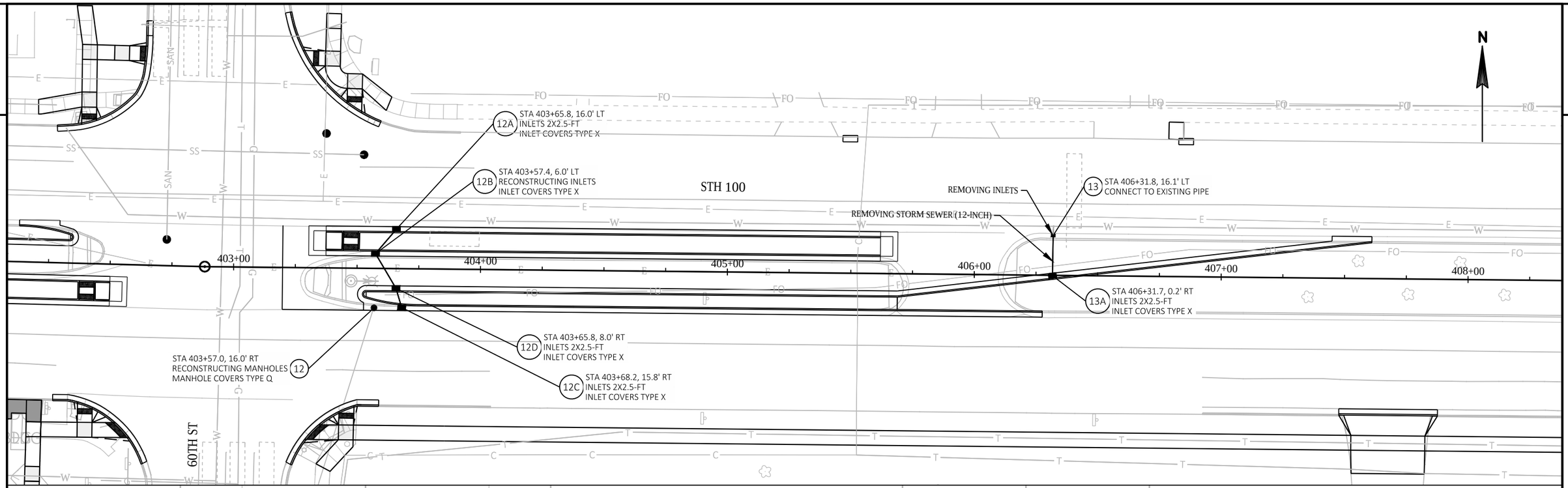


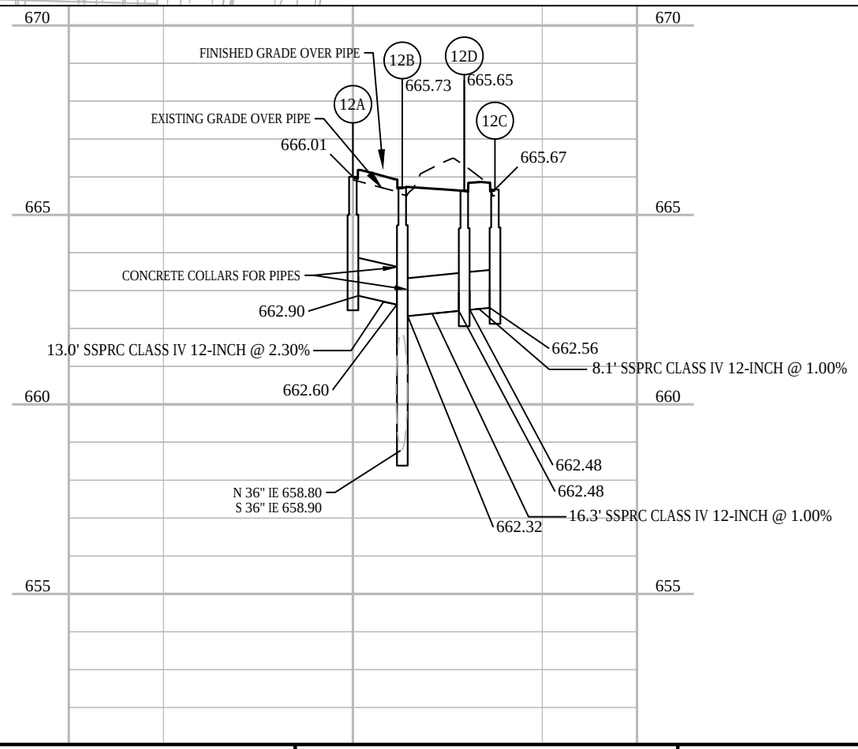


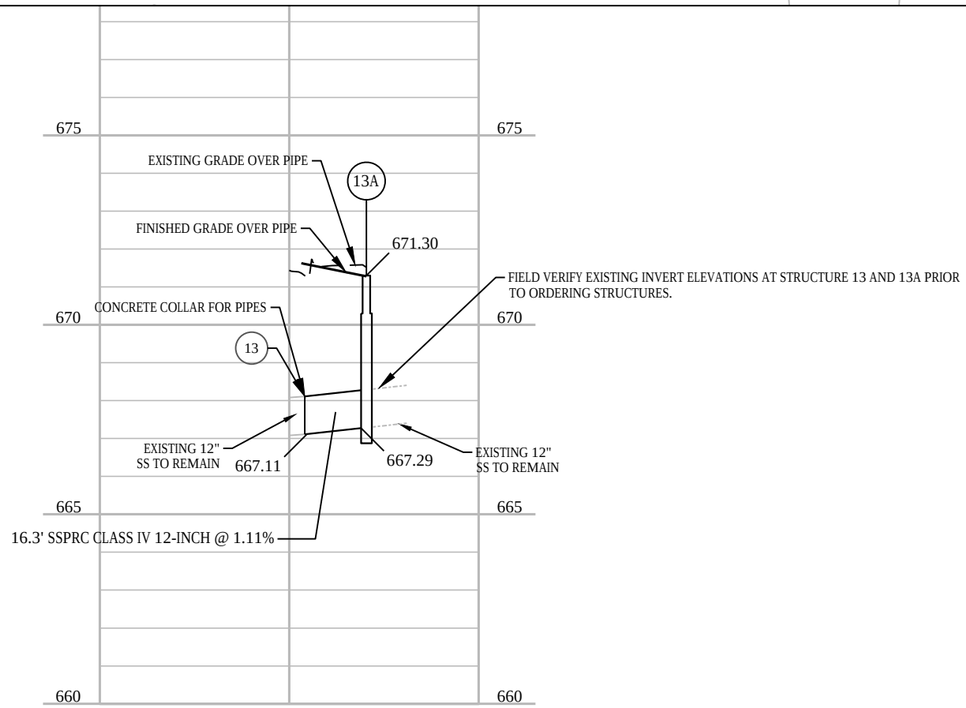


PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	STORM SEWER	SHEET 157	E

2

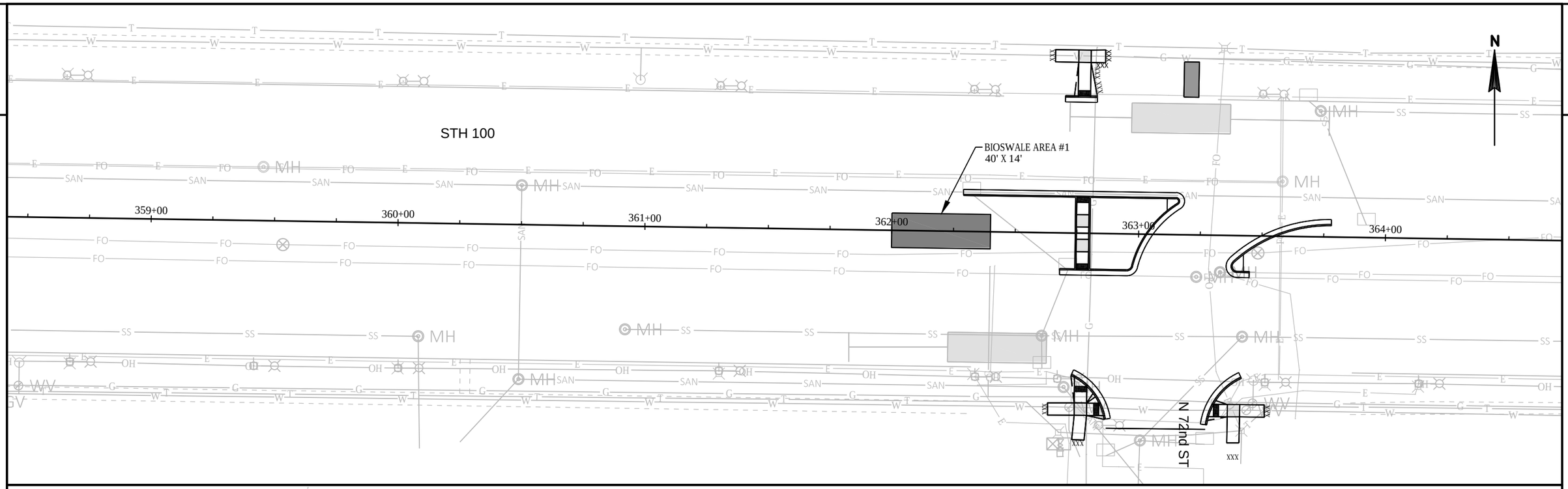






PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	STORM SEWER	SHEET 158	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 06
PLOT DATE : 11/2/2020 4:17 PM
PLOT BY : SCHMIDT, JUDENE M
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 41



2

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	LANDSCAPING PLANS - BIOSWALE AREAS	SHEET 159	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\023101-LA.DWG
LAYOUT NAME - 02

PLOT DATE : 7/10/2020 2:55 PM PLOT BY : MAY, MATTHEW PLOT NAME : PLOT SCALE : ##########

2

2

REMOVE, STOCKPILE, AND REINSTALL MUNICIPAL MONUMENT SIGN

STA 378+29.56
66.0' LT

MASONRY PILLAR AND WALL

PLANTER 1

STEEL EDGING MATERIAL

W BROWN DEER ROAD

STA 377+53.28

STA 377+57.25

10-INCH SNAPPED LIMESTONE WALL

STA 378+06.80

STA 378+52.33
5.7' LT

STA 378+24.09

LAWN SOD

PLANTER 2

STA 376+85.45

STA 377+53.28

STA 378+13.58

STA 378+54.59
10.9' RT

STEEL EDGING MATERIAL

W BROWN DEER ROAD

STA 380+31.40

STA 377+34.70
66.3' RT

STA 377+97.60
65.8' RT

MASONRY PILLAR AND WALL

W BROWN DEER ROAD

STA 377+11.00
67.0' RT

N 68TH ST

PLANTER 3

STEEL EDGING MATERIAL

STA 378+47.94
65.6' RT

STA 378+30.11
69.8' RT

(SCOFIELD PLUM CHESTNUT)
CONCRETE SIDEWALK
5-INCH

(SCOFIELD SCHOONER BEIGE)
CONCRETE SIDEWALK
5-INCH

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE COUNTY	VILLAGE STREETSCAPING PLAN	SHEET 160	E

FILE NAME : S:\Milw_Co\Brown_Deer\Gov\180459 Brown Deer Streetscape\Design
LAYOUT NAME - L101 - SITE LANDSCAPE PLAN

PLOT DATE : LANDSCAPE PLANS PLOT BY : KEVIN BYRNE PLOT NAME : PLOT SCALE : 1 IN:30 FT

WISDOT/CADDS SHEET 42

2

2

N 66TH STREET

N 66TH STREET

STA 382+80.20
88.9' LT

STA 382+49.50
88.9' LT

STA 383+21.05
88.9' LT

STA 383+54.55
88.9' LT

STA 382+14.05
57.8' LT

W BROWN DEER ROAD

STA 382+40.40

STA 383+90.60
57.9' LT

STA 384+85.50

STA 383+50.34

STA 382+14.05

STA 383+91.17

381 382 383 384 385

STA 382+42.55

SEE PAVING GRADES
CONSTRUCTION DETAIL

STA 383+59.40

STA 384+92.50

W BROWN DEER ROAD

STA 383+91.65
47.2' RT

STA 382+14.10
48.4' RT

STA 382+89.90
74.4' RT

N 66TH STREET

STA 383+14.19
74.2' RT

(SCOFIELD RUST FIELDS)
CONCRETE PAVEMENT
9–INCH

(SCOFIELD PLUM CHESTNUT)
CONCRETE PAVEMENT
9–INCH

(SCOFIELD SCHOONER BEIGE)
CONCRETE SIDEWALK
5–INCH

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE COUNTY	VILLAGE STREETSCAPING PLAN	SHEET 161	E

FILE NAME : S:\Milw_Co\Brown_Deer\Gov\180459 Brown Deer Streetscape\Design
LAYOUT NAME - L102 - SITE LANDSCAPE PLAN

PLOT DATE : LANDSCAPE PLANS PLOT BY : KEVIN BYRNE PLOT NAME : PLOT SCALE : 1 IN:30 FT

WISDOT/CADDS SHEET 42

2

2

N 64TH STREET

STA 387+36.15

W BROWN DEER ROAD

STA 389+00.05

385

386

387

388

389

STA 387+43.15

STA 389+09.80

N 64TH STREET

(SCOFIELD SCHOONER BEIGE)
CONCRETE SIDEWALK
5–INCH

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE COUNTY	VILLAGE STREETSCAPING PLAN	SHEET L103	162	E

FILE NAME : S:\Milw_Co\Brown_Deer\Gov\180459 Brown Deer Streetscape\Design
LAYOUT NAME - L103 - SITE LANDSCAPE PLAN

PLOT DATE : LANDSCAPE PLANS PLOT BY : KEVIN BYRNE PLOT NAME : PLOT SCALE : 1 IN:30 FT

WISDOT/CADDS SHEET 42

2

2

N 64TH STREET

W BROWN DEER ROAD

STA 390+00.80

STA 391+73.17

PLANTER 4

STA 392+92.28
9.5' LT

390

391

392

393

LAWN SOD

STA 390+18.40

STA 391+80.20

STA 392+92.67
9.4' RT

STEEL EDGING MATERIAL

W BROWN DEER ROAD

SERVICE ROAD

N 64TH STREET

(SCOFIELD SCHOONER BEIGE)
CONCRETE SIDEWALK
5–INCH

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE COUNTY	VILLAGE STREETSCAPING PLAN	SHEET 163	E

FILE NAME : S:\Milw_Co\Brown_Deer\Gov\180459 Brown Deer Streetscape\Design LAYOUT NAME - L104 SITE LANDSCAPE PLAN

PLOT DATE : LANDSCAPE PLANS PLOT BY : KEVIN BYRNE PLOT NAME : PLOT SCALE : 1 IN:30 FT

WISDOT/CADDS SHEET 42

2

2

PLANTER 4

STA 393+81.70

STA 395+58.45

STA 396+63.50

PLANTER 6

STA 397+33.70

STA 398+38.65

PLANTER 4

LAWN SOD

PLANTER 5

LAWN SOD

PLANTER 6

394

395

396

397

398

STA 395+61.45

STA 394+86.65

10–INCH SNAPPED
LIMESTONE WALL

W BROWN DEER ROAD

SERVICE ROAD

(SCOFIELD PLUM CHESTNUT)
CONCRETE SIDEWALK
5–INCH

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE COUNTY	VILLAGE STREETSCAPING PLAN	SHEET 164	E

FILE NAME : S:\Milw_Co\Brown_Deer\Gov\180459 Brown Deer Streetscape\Design
LAYOUT NAME - L105 SITE LANDSCAPE PLAN

PLOT DATE : LANDSCAPE PLANS PLOT BY : KEVIN BYRNE PLOT NAME : PLOT SCALE : 1 IN:30 FT

WISDOT/CADDS SHEET 42

2

2

STA 402+64.90
104.6' LT

STA 402+25.95
58.6' LT

N 60TH STREET

PLANTER 6

STA 400+33.15

STA 399+35.10
19.5' LT

W BROWN DEER ROAD

STA 402+34.30

LAWN SOD

399 400 401 402 403

STA 399+36.45
2.4' LT

STEEL EDGING MATERIAL

STA 400+40.15

STA 402+50.00

SEE PAVING GRADES
CONSTRUCTION DETAIL

SERVICE ROAD

STA 402+27.15
48.0' RT

STA 402+67.30
75.9' RT

N 60TH STREET

(SCOFIELD RUST FIELDS)
CONCRETE PAVEMENT
9-INCH

(SCOFIELD PLUM CHESTNUT)
CONCRETE PAVEMENT
9-INCH

(SCOFIELD SCHOONER BEIGE)
CONCRETE SIDEWALK
5-INCH

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE COUNTY	VILLAGE STREETSCAPING PLAN	SHEET 165	E

FILE NAME : S:\Milw_Co\Brown_Deer\Gov\180459 Brown Deer Streetscape\Design
LAYOUT NAME - L106 SITE LANDSCAPE PLAN

PLOT DATE : LANDSCAPE PLANS PLOT BY : KEVIN BYRNE PLOT NAME : PLOT SCALE : 1 IN:30 FT

WISDOT/CADDS SHEET 42

2

2

N 60TH STREET

STA 402+64.90
104.6' LT

STA 403+20.90
104.1' LT

STA 402+25.95
58.6' LT

STA 403+62.15
58.6' LT

W BROWN DEER ROAD

STA 402+34.30

STA 403+37.40

STA 405+62.00

402 403 404 405 406

STA 402+50.00

SEE PAVING GRADES
CONSTRUCTION DETAIL

STA 403+52.85

W BROWN DEER ROAD

STA 405+68.95

STA 402+27.15
48.0' RT

STA 402+67.30
75.9' RT

STA 403+60.42
47.9' RT

STA 403+21.44
75.6' RT

N 60TH STREET

(SCOFIELD RUST FIELDS)
CONCRETE PAVEMENT
9–INCH

(SCOFIELD PLUM CHESTNUT)
CONCRETE PAVEMENT
9–INCH

(SCOFIELD SCHOONER BEIGE)
CONCRETE SIDEWALK
5–INCH

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE COUNTY	VILLAGE STREETSCAPING PLAN	SHEET 166	E

FILE NAME : S:\Milw_Co\Brown_Deer\Gov\180459 Brown Deer Streetscape\Design
LAYOUT NAME - L107 SITE LANDSCAPE PLAN

PLOT DATE : LANDSCAPE PLANS PLOT BY : KEVIN BYRNE PLOT NAME : PLOT SCALE : 1 IN:30 FT

WISDOT/CADDS SHEET 42

2

2

N 51ST STREET

STA 429+42.50
92.3' LT

STA 429+90.35
92.3' LT

STA 428+96.90
58.2' LT

STA 430+29.35
58.8' LT

W BROWN DEER ROAD

STA 429+00.25

STA 426+55.95

STA 430+04.45

427 428 429 430 431

STA 426+59.95

STA 429+23.75

STA 430+22.50

SEE PAVING GRADES
CONSTRUCTION DETAIL

W BROWN DEER ROA

STA 428+96.90
48.0' RT

STA 430+29.34
48.2' RT

STA 429+39.65
80.6' RT

STA 429+78.11
80.6' RT

51ST STREET

(SCOFIELD RUST FIELDS)
CONCRETE PAVEMENT
9-INCH

(SCOFIELD PLUM CHESTNUT)
CONCRETE PAVEMENT
9-INCH

(SCOFIELD SCHOONER BEIGE)
CONCRETE SIDEWALK
5-NCH

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE COUNTY	VILLAGE STREETSCAPING PLAN	SHEET 167	E

FILE NAME : S:\Milw_Co\Brown_Deer\Gov\180459 Brown Deer Streetscape\Design
LAYOUT NAME - L112 SITE LANDSCAPE PLAN

PLOT DATE : LANDSCAPE PLANS PLOT BY : KEVIN BYRNE PLOT NAME : PLOT SCALE : 1 IN:30 FT

WISDOT/CADDS SHEET 42

2

2

N 51ST STREET

STA 429+42.50
92.3' LT

STA 429+90.35
92.3' LT

STA 428+96.90
58.2' LT

STA 430+29.35
58.8' LT

W BROWN DEER ROAD

STA 429+00.25

STA 430+04.45

STA 432+61.75

429 430 431 432

STA 429+23.75

STA 430+22.50

STA 432+68.15

SEE PAVING GRADES
CONSTRUCTION DETAIL

W BROWN DEER ROAD

STA 428+96.90
48.0' RT

STA 430+29.34
48.2' RT

STA 429+39.65
80.6' RT

STA 429+78.11
80.6' RT

N 51ST STREET

(SCOFIELD RUST FIELDS)
CONCRETE PAVEMENT
9-INCH

(SCOFIELD PLUM CHESTNUT)
CONCRETE PAVEMENT
9-INCH

(SCOFIELD SCHOONER BEIGE)
CONCRETE SIDEWALK
5-INCH

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE COUNTY	VILLAGE STREETSCAPING PLAN	SHEET 168	E

FILE NAME : S:\Milw_Co\Brown_Deer\Gov\180459 Brown Deer Streetscape\Design
LAYOUT NAME - L113 SITE LANDSCAPE PLAN

PLOT DATE : LANDSCAPE PLANS PLOT BY : KEVIN BYRNE PLOT NAME : PLOT SCALE : 1 IN:30 FT

WISDOT/CADDS SHEET 42

2

2

N ARBON DRIVE

W BROWN DEER ROAD

STA 441+61.25

STA 441+78.90
END STREETSCAPING

PLANTER 7

439 440 441 442 443

(SCOFIELD SCHOONER BEIGE)
CONCRETE SIDEWALK
5–INCH

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE COUNTY	VILLAGE STREETSCAPING PLAN	SHEET 169	E

FILE NAME : S:\Milw_Co\Brown_Deer\Gov\180459 Brown Deer Streetscape\Design
LAYOUT NAME - L115 SITE LANDSCAPE PLAN

PLOT DATE : LANDSCAPE PLANS PLOT BY : KEVIN BYRNE PLOT NAME : PLOT SCALE : 1 IN:30 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- S.P. SIGNAL POLE
- L.P. LIGHT POLE

ALL STREET NAME SIGNS
MOVED BY OTHERS:
- CITY OF MILWAUKEE
- VILLAGE OF BROWN DEER

95TH ST

N

STH 100 (BROWN DEER RD)

282+00 283+00 284+00 285+00 286+00 287+00

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 COUNTY(S) PHONE*

- DENNIS NEWTON MILWAUKEE 414-750-0257
- DENNIS NEWTON RACINE 414-750-0257
- JENNY BUCKETT KENOSHA, WASHINGTON, OZAUKEE 414-750-2427
- CHUCK SALDIVAR WALWORTH, WAUKESHA 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 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 NAME 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.

LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM. PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.

NO SIGNS THIS SHEET

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 170	E

FILE NAME : N:\PDS\C3D\CAD\215000001\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-01
PLOT DATE : 11/4/2020 4:05 PM
PLOT BY : WAGNER, SCOTT H
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- S.P. — SIGNAL POLE
- L.P. — LIGHT POLE

N

S1-1
AHEAD
S16-9P
ESTR
430 FINES HIGHER
431 R2-6P (2M)

STH 100 (BROWN DEER RD)

288+00 289+00 290+00 291+00 292+00 293+00

STH 100 (BROWN DEER RD)

NO PARKING ANY TIME
R7-1-D
ESTR
L.P.

R4-7
ESTR

1
N. Swan Rd
N. 91st St
REMOVE

N. Swan Rd
N. 91st St
D1-2

2
BEGIN LEFT TURN LANE
R3-20-L (2M)

SHEET 2 OF 30

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 171	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-02

PLOT DATE : 11/4/2020 4:06 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- S.P. — SIGNAL POLE
- L.P. — LIGHT POLE

STH 100 (BROWN DEER RD)

N SWAN RD

N 91ST ST

23 M1-6 100 / M6-4 J3-1(2S)

21 DIVIDED HIGHWAY R6-3 (2M)

22 STOP R1-1F (2M) ON S.P.

DIVIDED HIGHWAY REMOVE

STOP REMOVE

388 RIGHT TURN YIELD TO UTURN MOVE

ESTR WEST M3-4 100 / M1-6 J4-1(2S)

NO PARKING ANY TIME R7-1-D ESTR

20 N. 91st St / N. Swan Rd M1-94H (MOD) ON EXISTING SIGNAL ARM

435 DO NOT ENTER R5-1 (2M) ON S.P.

24 ONE WAY R6-2-R (2M)

REMOVE 434 W3-3 (2M)

REMOVE 25 W3-3 (2M)

LEFT LANE MUST TURN LEFT R3-7-L ESTR

LEFT TURN YIELD ON FLASHING YELLOW ARROW R10-50 ESTR ON S.P.

19 ONE WAY R6-2-L (2S) ON S.P.

18 DO NOT ENTER R5-1 (2M) ON S.P.

XXXX XXXX

XXXX

ONE WAY REMOVE

27 ONE WAY R6-2-L(2S)

REMOVE 26 R4-7(2M) ON S.P.

R4-7 ESTR

LEFT TURN YIELD ON FLASHING YELLOW ARROW ESTR

STOP REMOVE

16 STOP R1-1F (2M) ON S.P.

17

294+00 295+00 296+00 297+00 298+00 299+00

100.01

12 NORTHWEST DEPTH = 3.20'

ONLY

REMOVE 15 R4-7(2M) ON S.P.

7 DO NOT ENTER R5-1 (2M) ON S.P.

12 N. Swan Rd / N. 91st St M1-94H (MOD) ON EXISTING SIGNAL ARM

R4-7 ESTR

NO PARKING ANY TIME 14 R7-1-D(2M) ON S.P.

SPEED LIMIT 40 R2-1 ESTR

NO PARKING ANY TIME R7-1-D ESTR L.P.

6 STOP REMOVE R1-1F (2M) ON S.P.

3 STOP REMOVE R1-1F (2M) ON S.P.

5 ONE WAY R6-2-L(2S)

ONE WAY REMOVE 13 ONE WAY R6-2-L (2S)

SPEED LIMIT 40 R2-1 ESTR L.P.

4 NO PARKING ANY TIME REMOVE R7-1-D (2M) ON S.P.

11 DIVIDED HIGHWAY R6-3 (2M)

9 STOP REMOVE R1-1F (2M) ON S.P.

10 DO NOT ENTER R5-1 (2M) ON S.P.

387 RIGHT TURN YIELD TO UTURN MOVE

8 100 M1-6 / M6-4 J3-1(2S)

SHEET 3 OF 30

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 172	E

FILE NAME : N:\PDS\C3D\CAD\215000001\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-03

PLOT DATE : 11/4/2020 4:06 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- S.P. — SIGNAL POLE
- L.P. — LIGHT POLE

N

NO PARKING ANY TIME — R7-1-D ESTR ON L.P.

ONLY | ONLY — R3-8-Y MOD ESTR

NO PARKING ANY TIME — R7-1-D ESTR ON L.P.

BEGIN LEFT TURN LANE — R3-20-L ESTR

29 — N. 91st St / N. Swan Rd — D1-2

NO PARKING ANY TIME — R7-1-D ESTR ON L.P.

STH 100 (BROWN DEER RD)

99+00 300+00 301+00 302+00 303+00 304+00 305+00

STH 100

STH 100 (BROWN DEER RD)

28 — WEST — M3-4

100 — M1-6 J4-1(2M) ON L.P.

NO PARKING ANY TIME — R7-1-D ESTR ON L.P.

SHEET 4 OF 30

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 173	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-04

PLOT DATE : 11/4/2020 4:06 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- S.P. — SIGNAL POLE
- L.P. — LIGHT POLE

N

W3-3
ESTR

REMOVE
R4-7 (2M)
31

R7-1-D
ESTR
ON L.P.

R7-1-D
ESTR
ON L.P.

R2-1
ESTR

STH 100 (BROWN DEER RD)

305+00 306+00 307+00 308+00 309+00 310+00 311+00

STH 100 (BROWN DEER RD)

R7-1-D
ESTR
ON L.P.

REMOVE
R4-7 (2M)
30

R7-1-D
ESTR
ON L.P.

R7-1-D
ESTR
ON L.P.

R7-1-D
ESTR
ON L.P.

REMOVE
R2-1 (2M)
32

R2-1
ESTR
ON L.P.

SHEET 5 OF 30

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 174	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-05

PLOT DATE : 11/4/2020 4:07 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- S.P. — SIGNAL POLE
- L.P. — LIGHT POLE

N

NO PARKING ANY TIME
R7-1-D
ESTR
L.P.

389
ONE WAY
R6-2-L (2S)

NO PARKING ANY TIME
R7-1-D
ESTR
L.P.

36
N 85th St
NEXT SIGNAL
D1-65

STH 100 (BROWN DEER RD)

311+00 312+00 313+00 314+00 315+00 316+00 317+00

W3-3
ESTR
L.P.

REMOVE
33
W3-3 (2M)

REMOVE
34
35
R4-7 (2M)

NO PARKING ANY TIME
R7-1-D
ESTR
L.P.

37
BEGIN LEFT TURN LANE
R3-20-L (2M)

STH 100 (BROWN DEER RD)

SHEET 6 OF 30

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 175	E

FILE NAME : N:\PDS\C3D\CAD\215000001\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-06

PLOT DATE : 11/4/2020 4:07 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- S.P. SIGNAL POLE
- L.P. LIGHT POLE

N

56 100 M1-6 M6-4 J3-1(2S)

55 DIVIDED HIGHWAY R6-3 (2M)

54 STOP R1-1F (2M)

STOP REMOVE

58 STOP R1-1(2M) ON L.P.

57 ONE WAY R6-2-R (2S)

SPEED LIMIT 40 R2-1 ESTR

418 N 85th St M1-94-H ON SIGNAL ARM

61 ONE WAY R6-2-L (2S) ON S.P.

60 DO NOT ENTER R5-1 (2M) ON S.P.

59 R4-7 (2M) ON S.P.

53 100 W. Brown Deer Rd M1-94-S ON ARM

52 ONE WAY R6-2-L (2S) ON S.P.

51 DO NOT ENTER R5-1 (2M) ON S.P.

STOP REMOVE

50 STOP R1-1F (2M)

NO PARKING ANY TIME REMOVE

49 NO PARKING ANY TIME R7-1-D ESTR S.P.

NO PARKING ANY TIME R7-1-D ESTR

63 STOP R1-1F ON S.P. STH 100 (BROWN DEER RD)

STH 100 (BROWN DEER RD)

62 R4-7 (2M) ON S.P.

REMOVE

317+00 318+00 319+00 320+00 321+00 322+00 323+00

N 85TH ST

XXXX XXXX

30'

35'

45'

ICPB99 ICPB100

FO I/C

STOP REMOVE

38 STOP 426 R1-1F (2M) ON S.P.

39 DO NOT ENTER R5-1 (2M) ON S.P.

64 100 W. Brown Deer Rd M1-94-S ON ARM

DIVIDED HIGHWAY 40A R6-3 (2M)

STOP 40 R1-1F (2M)

STOP REMOVE

NO PARKING ANY TIME REMOVE

41 NO PARKING ANY TIME R7-1-D (2M) ON S.P. ABOVE #42

42 ONE WAY R6-2-L (2S) ON S.P.

43 N 85th St M1-94-H ON SIGNAL ARM

EAST M3-2 44 100 M1-6 L.P. J4-1(2M)

SPEED LIMIT 40 R2-1 ESTR L.P.

NO PARKING ANY TIME R7-1-D ESTR L.P.

100 427 M1-6 M6-4 J3-1(2S)

SHEET 7 OF 30

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 176	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-07

PLOT DATE : 11/4/2020 4:08 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- S.P. SIGNAL POLE
- L.P. LIGHT POLE

N

70 BEGIN LEFT TURN LANE
R3-20-L (2M)

68 N 85th St NEXT SIGNAL
D1-65

69
R4-7 (2M)

NO PARKING ANY TIME
R7-1-D
ESTR
L.P.

W3-3
ESTR

NO PARKING ANY TIME
R7-1-D
ESTR
L.P.

STH 100 (BROWN DEER RD)

323+00 324+00 325+00 326+00 327+00 328+00 329+00

ICPB101

65 DO NOT ENTER
R5-1 (2M)
ON L.P.

STOP
R1-1F
MOVE
BY OTHERS
BY OTHERS
DRIVEWAY

REMOVE
66
R4-7 (2M)

67 N. 82nd St
D1-1

NO PARKING ANY TIME
R7-1-D
ESTR
L.P.

STH 100 (BROWN DEER RD)

SHEET 8 OF 30

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 177	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-08

PLOT DATE : 11/4/2020 4:08 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- S.P. SIGNAL POLE
- L.P. LIGHT POLE

N

N 82ND ST

STOP R1-1 ESTR

REMOVE STOP 80 R1-1(2M)

R4-7 ESTR

436 DO NOT ENTER R5-1(2M) L.P.

NO PARKING ANY TIME R7-1-D ESTR L.P.

79 SPEED LIMIT 40 R2-1(2M) L.P.

REMOVE SPEED LIMIT 40 78 R2-1(2M)

XXXX XXXX

STH 100 (BROWN DEER RD)

R4-7 ESTR

329+00 330+00 331+00 332+00 333+00 334+00 335

REMOVE 75 R4-7(2M)

STH 100 (BROWN DEER RD)

76 N Servite Dr NEXT SIGNAL D1-65

DO NOT ENTER 71 R5-1(2M) L.P.

STOP R1-1 DRIVEWAY MOVE BY OTHERS

REMOVE NO PARKING ANY TIME 72 R7-1-D(2M) L.P.

REMOVE 73 W3-3 (2M) ON L.P.

REMOVE 74 W3-3 (2M)

NO PARKING ANY TIME R7-1-D ESTR L.P.

77 BEGIN LEFT TURN LANE R3-20-L(2M)

SHEET 9 OF 30

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 178	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-09

PLOT DATE : 11/4/2020 4:08 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- S.P. SIGNAL POLE
- L.P. LIGHT POLE

105 N Servite Dr
M1-94-H
ON SIGNAL ARM

REMOVE
ONE WAY 107
R6-2-L (2S)
S.P.
UP HIGH

REMOVE
NO PARKING ANY TIME 106
R7-1-D (2M)
S.P.

DIVIDED HIGHWAY 103
R6-3 (2M)

STOP 102
R1-1F (2M)
S.P.

100 100
M1-6
M6-4
J3-1(2S)

DO NOT ENTER 104
R5-1(2M)
S.P.

REMOVE
STOP 101
R1-1F (2M)
ON S.P.

100 W. Brown Deer Rd 99
M1-94-S
ON ARM

ONE WAY 98
R6-2-L (2S)
ON S.P.

REMOVE
YIELD 93
R1-2 (2M)

REMOVE
STOP 111
R1-1F (2M)

NO PARKING ANY TIME
R7-1-D
ESTR
L.P.

415 76th St
NEXT SIGNAL
D1-65

STH 100 (BROWN DEER RD)

110
R4-7(2M)

REMOVE 108 109
R4-7(2M)

DO NOT ENTER 83
R5-1(2M)
S.P.

100499
694.717
CH 10" PVC EASTERLY DEPTH 5.35

335+00 336+00 337+00 338+00 339+00 340+00

N SERVITE DR

XXXX XXXX

40'

45'

15'

ONLY ONLY

DO NOT ENTER 84
R5-1(2M)
S.P.

ONE WAY 85
R6-2-L (2S)
S.P.

STH 100

STH 100 (BROWN DEER RD)

JCT
M2-1
100
M1-6
ESTR

76th St
NEXT SIGNAL 390

STOP
REMOVE
STOP 81
R1-1F (2M)
ON S.P.

82 100 W. Brown Deer Rd
M1-94-S
ON SIGNAL ARM

DIVIDED HIGHWAY 86
R6-3 (2M)

REMOVE
STOP 87
R1-1F (2M)
S.P.

88 100
M1-6
M6-4
J3-1(2S)

89 EAST
M3-2
100
M1-6
J4-1 (2M)
S.P.

REMOVE
STOP 112
R1-1F (2M)
S.P.

90 N Servite Dr
M1-94-H
ON SIGNAL ARM

NORTH SOUTH 92
M3-1 M3-3
181 181
M1-6 M1-6
USE LEFT LANE
M4-20L M5-1R
J2-2(2M)

NORTH SOUTH
181 181
USE LEFT LANE
REMOVE

NORTH SOUTH 91
M3-1 M3-3
181 181
M1-6 M1-6
USE LEFT LANE
M4-20L M5-2R
J2-2(2M)

SPONSOR1 SPONSOR2 SPONSOR3
I55-56
NO PARKING ANY TIME
R7-1-D
ESTR
L.P.

W3-3
ESTR

SHEET 10 OF 30

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 179	E

FILE NAME : N:\PDS\C3D\CAD\215000001\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-10

PLOT DATE : 11/17/2020 3:51 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- S.P. SIGNAL POLE
- L.P. LIGHT POLE

2

2

N

STH 100 (BROWN DEER RD)

341+00 342+00 343+00 344+00 345+00 346+00

STH 181 SB EXIT RAMP

STH 181 SB ON RAMP

STH 181 SB ON RAMP

STH 181

PT: 231+32.74

113 TURNING VEHICLES TO R10-15-R (2M) L.P.

Mequon Wauwatosa D1-2 ESTR

ALTERNATE M4-1 INTERSTATE 94 M1-1 M6-1 J3-1 ESTR

SOUTH M3-3 181 M1-6 M6-2 J3-1 ESTR L.P.

NORTH 119 M3-1 181 M1-6 USE LEFT LANE M4-2GL J3-1 (2M)

114 W11-2 (2M) 115 W16-7L (2M) ON L.P.

116 W11-2 (2M) 117 W16-7R (2M)

SOUTH SOUTH 118 M3-3 181 M1-6 M6-2 J3-1 (2M)

R3-18 ESTR

NO PARKING ANY TIME R7-1-D ESTR

122 STOP REMOVE R1-1F (2M) ON L.P.

DO NOT ENTER REMOVE 123 R5-1 (2M) ON L.P.

NORTH 124 M3-1 181 M1-6 M5-1L J2-1 ESTR ON S.P.

ONE WAY REMOVE 121 R6-2-L (2S) ON S.P.

SOUTH 181 M3-3 181 M1-6 REMOVE

120 STOP REMOVE R1-1F (2M) ON S.P.

SOUTH SOUTH 128 M3-3 181 M1-6 M6-1 (2M) J3-1 ON S.P.

REMOVE 125 R4-7 (2M) ON L.P.

REMOVE 140 R4-7 (2M)

LEFT TURN YIELD ON FLASHING YELLOW ARROW R10-50 ESTR ON ARM

134 ONE WAY REMOVE R6-2-L (2S) ON S.P.

DO NOT ENTER REMOVE 139 R5-1 (2S) ON S.P.

135 STOP REMOVE R1-1F (2M) ON S.P.

136 422 STOP REMOVE R1-1 (2M)

DO NOT ENTER 129 R5-1 (3)

WRONG WAY 130 R5-1A (2S)

DO NOT ENTER REMOVE 133 R5-1 (2M) ON S.P.

R3-1 ESTR

STOP REMOVE 126 127 R1-1F (2M) ON S.P.

138 N. Servite Dr. NEXT SIGNAL D1-65

391 W3-3 ON L.P. (2M)

W3-3 ESTR

WEST M3-4 100 M1-6 J4-1 ESTR

ONE WAY REMOVE 137 R6-2-R (2S)

NO PARKING ANY TIME R7-1-D ESTR ON L.P.

NO PARKING ANY TIME R7-1-D ESTR ON L.P.

SHEET 11 OF 30

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 180	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-11

PLOT DATE : 11/4/2020 4:09 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- S.P. SIGNAL POLE
- L.P. LIGHT POLE

STH 181/76th

STH 181 NB ON RAMP

STH 181 NB ON RAMP

STH 100 (BROWN DEER RD)

STH 100 (BROWN DEER RD)

STH 181

STH 181 NB EXIT RAMP

STH 181 NB EXIT RAMP

347+00 348+00 349+00 350+00 351+00 352+00

SOUTH M3-3 181 M1-6 M5-1 J2-1 ESTR ON S.P.

ONE WAY REMOVE ONE WAY 161 R6-2-L (2S) ON S.P.

STOP REMOVE STOP 160 425 R1-1F (2M) ON S.P.

NO PARKING EXIT R7-1-D ESTR ON L.P.

158 W11-2 (2M) 159 W16-7R (2M)

155 W11-2 (2M) 156 W16-7L (2M)

NORTH REMOVE 157 NORTH M3-1 181 M1-6 M6-2 J3-1(2M)

NO PARKING EXIT R7-1-D ESTR ON L.P.

SOUTH 152 M3-3 181 M1-6 USE LEFT LANE M4-20L J2-1(2M)

TURNING VEHICLES TO 424 R10-15-R (2M)

NORTH M3-1 181 M1-6 M6-2 J3-1 ESTR

REMOVE 162 R4-7 (2M) ON L.P.

NORTH NORTH 164 M3-1 181 M1-6 REMOVE M6-1 J3-1(2M)

REMOVE 167 R3-18 (2M)

STOP 163 R1-1F (2M)

DO NOT ENTER 165 R5-1 (2M) ON S.P.

ONE WAY REMOVE ONE WAY 143 R6-2-L (2S) ON S.P.

ONE WAY REMOVE ONE WAY 150 R6-2-L (2S) ON S.P.

REMOVE 166 R4-7 (2M) ON L.P.

ONE WAY R6-2-R ESTR

NO PARKING EXIT R7-1-D ESTR

EAST M3-2 100 M1-6 J4-1 ESTR ON L.P.

NO PARKING EXIT R7-1-D ESTR

St. Catherine Catholic Church D1-1 PERMIT SIGN Fingerboard ESTR

NO PARKING EXIT R7-1-D ESTR ON L.P.

151 N. 76th St. D1-1

NO PARKING EXIT R7-1-D ESTR

141 R3-1 (2M)

STOP REMOVE STOP 142 R1-1F (2M)

DIVIDED HIGHWAY 147 R6-3 (2M)

STOP 146 R1-1F (2M) ON S.P.

DO NOT ENTER 144 R5-1 (2M) ON S.P.

STOP REMOVE STOP 148 423 R1-1F (2M)

DO NOT ENTER DO NOT ENTER 144 R5-1 (3)

WRONG WAY WRONG WAY 145 R5-1A (2S) ON S.P.

SHEET 12 OF 30

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 181	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-12

PLOT DATE : 11/4/2020 4:10 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

VMS VARIABLE MESSAGE SIGN

EXISTING LIGHT OR SIGNAL POLE

SIGN BRIDGE

CANTILEVER SIGN BRIDGE

XXX DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

S.P. SIGNAL POLE

L.P. LIGHT POLE

N

STH 100 (BROWN DEER RD)

353+00 354+00 355+00 356+00 357+00 358+00

R7-1-D ESTR

W3-3 ESTR ON L.P.

R7-1-D ESTR

I55-56 ESTR

W3-3 (2M) 182

REMOVE Wauwatosa Mequon 181 D1-2

R4-7 (2M) 183

W11-2 (2M) 179

W16-7L (2M) 180

W11-2 (2M) 177

W16-7R (2M) 178

R7-1-D ESTR ON L.P.

ADD PLAQUE 392 USE LEFT LANE M4-20L (2M)

SOUTH M3-3 181 M1-6 M6-1

NORTH M3-1 181 M1-6 M5-1R

J2-2 ESTR

W11-2 (2M) 170

W16-7R (2M) 171

R4-7 (2M) 172

SPEED LIMIT 40 R2-1 ESTR

SPEED LIMIT 40 REMOVE R2-1 (2M) 168

184 ALTERNATE M4-1 NORTH M3-1 41 M1-1 M6-1 41 M1-4 45 M1-4 M6-1 J3-2 MOVE

R7-1-D ESTR ON L.P.

169 DO NOT ENTER R5-1 (2M) ON L.P.

R5-2 3 TONS & OVER ESTR

XXXX XXXX

N 76TH PL

STOP REMOVE STOP 173 R1-1 (2M)

W11-2 (2M) 174

W16-7L (2M) 175

EAST M3-2 100 M1-6 J4-1 ESTR

176 N. 72nd St. D1-1

S1-1 AHEAD S16-9P ESTR

SHEET 13 OF 30

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 182	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-13

PLOT DATE : 11/4/2020 4:10 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- S.P. — SIGNAL POLE
- L.P. — LIGHT POLE

N

St. Catherine Catholic Church
D1-1
PERMIT SIGN
Fingerboard
ESTR

NO PARKING ANY TIME
R7-1-D
ESTR
ON L.P.

SPEED LIMIT 40
R2-1
ESTR

JCT 181
J1-1
ESTR

76th St
NEXT SIGNAL
ESTR

393
REMOVE

190
W12-1D(2S)
2' HEIGHT

NO PARKING ANY TIME
R7-1-D
ESTR

STH 100 (BROWN DEER RD)

359+00 360+00 361+00 362+00 363+00 364+00

STH 100 (BROWN DEER RD)

395
NO PARKING ANY TIME
R7-1-D (2M)
UTILITY POLE

191
R3-2 (2M)

185
DO NOT ENTER
R5-1 (2M)
ON L.P.

XXXX XXXX

N 72ND ST
ONLY

STOP
REMOVE

187
STOP
R1-1(2M)

186
RIGHT TURN ONLY
R3-53-R (2S)

188
DO NOT ENTER
R5-1(2M)

441
R9-3-A(2S)

441A
USE CROSSWALK
R9-3-BL(2S)

189
R4-7(2M)

394
ONE WAY
R6-2-R (2S)

SHEET 14 OF 30

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 183	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-14

PLOT DATE : 11/4/2020 4:10 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- S.P. — SIGNAL POLE
- L.P. — LIGHT POLE

N

STH 100 (BROWN DEER RD)

365+00 366+00 367+00 368+00 369+00 370+00

STH 100

STH 100 (BROWN DEER RD)

442 R9-3-A (2S)
442A R9-3-BL (2S)
200 DO NOT ENTER R5-1 (2M)
201 NO PARKING ANY TIME R7-1-D (2M) ON L.P.
202 REMOVE
ONLY XXXX
STOP R1-1 ESTR
N 70TH ST
R4-7 ESTR
W5-52L ESTR
REMOVE 199 R1-2 (2M)
428 W11-2 (2M)
428A W16-7L (2M)
W12-1D ESTR
196 R3-2 (2M)

192 N. 70th St D1-1
193 R3-4 REMOVE
NO PARKING ANY TIME R7-1-D ESTR ON L.P.
203 DO NOT ENTER R5-1 (2M)
195 ONE WAY R6-2-R (2S)
204 R4-7 (2M)
205 R3-2 (2M)
194 W12-1D (2M) 2' HEIGHT
396 REMOVE
W11-2 AHEAD W16-9P ESTR
AHEAD REMOVE
197 W11-2 (2M)
198 AHEAD W16-9P (2M)

SHEET 15 OF 30

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 184	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-15

PLOT DATE : 11/4/2020 4:11 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- S.P. — SIGNAL POLE
- L.P. — LIGHT POLE

N

SPEED LIMIT 40 — R2-1 ESTR

218 R4-7 (2M)

217 REMOVE R3-4 (2M)

NO PARKING ANY TIME — R7-1-D ON L.P. ESTR

No Engine Braking — CITY SIGN ESTR

Milwaukee POPULATION 594,833 — I2-3 ESTR

City of Milwaukee No Parking 2AM TO 6AM ON ANY..... — R7-1-D ON L.P. ESTR

BY OTHERS CITY SIGN

S1-1 AHEAD — S16-9P ESTR

432 433 FINES HIGHER — R2-6P (2M)

214 R4-7 (2M)

215 R3-4 (2M)

REMOVE

216 Time of Day — MOVE

REMOVE

212 W11-2 (2M) 213 W16-7L (2M)

210 W11-2 (2M) 211 W16-7R (2M)

STH 100 (BROWN DEER RD)

371+00 372+00 373+00 374+00 375+00 376+00

397 NO PARKING ANY TIME — R7-1-D (2M) ON L.P.

R3-4 ESTR

REMOVE 206 R4-7 (2M)

N. 68th St 207 — D1-1

N. 66th St NEXT SIGNAL 398 — D1-65

SPEED LIMIT 40 — R2-1 ESTR

STH 100

NO PARKING ANY TIME — R7-1-D ESTR

REMOVE 429 W11-2 (2M) 429A W16-7R (2M)

REMOVE 208 W11-2 (2M) 209 W16-7L (2M)

XXXX

N 68TH ST

SHEET 16 OF 30

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 185	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-16

PLOT DATE : 11/4/2020 4:11 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

VMS VARIABLE MESSAGE SIGN

EXISTING LIGHT OR SIGNAL POLE

SIGN BRIDGE

CANTILEVER SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

S.P. SIGNAL POLE

L.P. LIGHT POLE

N

399 Tree City Etc... ILLEGAL SIGN REMOVE

Welcome Brown Deer JURISDICTIONAL BOUNDARY SIGN EASTBOUND

STOP R1-1 ESTR PRIVATE PROPERTY SIGN DRIVEWAY

ONE WAY REMOVE

ONE WAY 225 R6-2-R (2S)

400 N. 68th St D1-1

AHEAD REMOVE

223 W11-2 (2M)

224 AHEAD W16-9P (2M)

W11-2 AHEAD W16-9P ESTR

STH 100 (BROWN DEER RD)

376+00 377+00 378+00 379+00 380+00 381+00

XXXX XXXX

N 68TH ST

R4-7 ESTR

W5-52L ESTR

R4-7 (2M) ESTR

R3-4 ESTR

STOP REMOVE

STOP 219 R1-1 (2M)

Park Plaza Ct 419
N. 66th St
D1-2

REMOVE 220 W3-3 (2M)

REMOVE 221 W3-3 (2M)

BEGIN LEFT TURN LANE 222 R3-20-LL (2M)

STH 100 (BROWN DEER RD)

SHEET 17 OF 30

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 186	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-17

PLOT DATE : 11/4/2020 4:11 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- S.P. SIGNAL POLE
- L.P. LIGHT POLE

N

N PARK PLAZA CT

STH 100 (BROWN DEER RD)

382+00 383+00 384+00 385+00 386+00 387+00

255 100 M1-6 M6-4 J3-1(2S)

254 ONE WAY R6-2-L (2S)

261 100 W. Brown Deer Rd M1-94-S ON SIGNAL ARM

260 DIVIDED HIGHWAY R6-3 (2M)

259 STOP R1-1F (2M) ON S.P.

258 Park Plaza Ct / N. 66th St — REMOVE — N 66th St / Park Place Ct M1-94H ON SIGNAL ARM PERMIT SIGN VILLAGE OF BROWN DEER SIGN

257 ONE WAY R6-2-L (2S)

253 REMOVE R4-7 (2S)

403 R9-3-A (2S) 403A USE CROSSWALK R9-3-BR (2S) SEE DETAIL

242 REMOVE STOP R1-1F (2M) ON S.P.

NO PARKING ANY TIME R7-1-D ESTR

251 BEGIN LEFT TURN LANE R3-20-LL (2M)

Truck Entrance ESTR

ONE WAY REMOVE 405 ONE WAY R6-2-R (2M)

239 BEGIN LEFT TURN LANE R3-20-L (2M)

238 REMOVE

W3-3 ESTR

256 DO NOT ENTER R5-1 (2M) ON S.P.

243 DO NOT ENTER R5-1 (2M)

247 R4-7 (2M) ON L.P.

244 245 246 DO NOT ENTER R5-1 (2M) ON S.P.

248 REMOVE R4-7 (2M)

249 ONE WAY R6-2-L (2S) ON S.P.

250 REMOVE STOP R1-1F (2M) ON S.P.

401 REMOVE

227 REMOVE STOP R1-1F (2M)

226 REMOVE STOP R1-1F (2M) ON S.P.

228 100 W. Brown Deer Rd M1-94-S ON SIGNAL ARM

N 66TH ST

232 100 M1-6 M6-4 J3-1(2S)

STOP REMOVE 229 DIVIDED HIGHWAY R6-3 (2M) 230 STOP R1-1F (2M) ON S.P.

402 R9-3-A (2S) 402A USE CROSSWALK R9-3-BL (2S) SEE DETAIL

NO PARKING ANY TIME REMOVE 233 R7-1-D ON S.P.

EAST M3-2 234 100 M1-6 J4-1 (2S)

Park Plaza / N. 66th St REMOVE 231 Park Plaza / N. 66th St M1-94H ON SIGNAL ARM PERMIT SIGN VILLAGE OF BROWN DEER SIGN

64th St NEXT SIGNAL REMOVE 235 64th St NEXT SIGNAL D1-65

404 SPEED LIMIT 40 R2-1 (2M)

252 SPEED LIMIT 40 REMOVE

237 REMOVE

W3-3 ESTR

NO PARKING ANY TIME R7-1-D ESTR

236 BEGIN LEFT TURN LANE R3-20-LL (2M)

SHEET 18 OF 30

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 187	E

LEGEND

EXISTING SIGN MOUNTED ON POST(S)
EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
PROPOSED SIGN MOUNTED ON POST(S)
PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
VMS VARIABLE MESSAGE SIGN
EXISTING LIGHT OR SIGNAL POLE
SIGN BRIDGE
CANTILEVER SIGN BRIDGE
(XXX) DENOTES SIGN NUMBER
(X) INDICATES SIGN SIZE
S.P. SIGNAL POLE
L.P. LIGHT POLE

407 N. 66th St / Park Plaza Ct
D1-2

285 WEST M3-4 / 100 M1-6
J4-1 (2S) ON S.P.

N. 64th St REMOVE N. 64th St 286
M1-94H
ON SIGNAL ARM
PERMIT SIGN
VILLAGE OF BROWN DEER SIGN

287 ONE WAY
R6-2-L (2S)

284A REMOVE DIVIDED HIGHWAY
R6-3 (2M)

284 STOP
R1-1F (2M) ON S.P.

277 100
M1-6
M6-4
J3-1(2S)

283 100 W. Brown Deer Rd
M1-94-S
ON SIGNAL ARM

282 DO NOT ENTER
R5-1 (2M) ON S.P.

276 REMOVE STOP
R1-1F (2M) ON S.P.

R5-2 ESTR
M6-1

289 BEGIN LEFT TURN LANE
R3-20-LL (2M)

Truck Entrance
ESTR

275 REMOVE STOP
R1-1F (2M)

288 REMOVE
R4-7 (2M) ON L.P.

273 274 DO NOT ENTER
R5-1 (2M)

272 REMOVE
R4-7 (2M)

STH 100 (BROWN DEER RD)

388+00 389+00 390+00 391+00 392+00 393+00

40'

N 64th St
N 64TH ST

30'

SERVICE ROAD

262 STOP REMOVE
R1-1F (2M) ON S.P.

264 DO NOT ENTER
R5-1 (2M) ON S.P.

263 100 W. Brown Deer Rd
M1-94-S
ON SIGNAL ARM

266 100
M1-6
M6-4
J3-1(2S)

REMOVE

265 REMOVE DIVIDED HIGHWAY
R6-3 (2M)

267 STOP
R1-1F (2M)

268 ONE WAY
R6-2-L (2S) ON S.P.

N. 64th St REMOVE N. 64th St 270
M1-94H
ON SIGNAL ARM
PERMIT SIGN
VILLAGE OF BROWN DEER SIGN

REMOVE NO PARKING
269 NO PARKING
R7-1-D ON S.P.

271 EAST M3-2 / 100 M1-6
J4-1(2M)

SHEET 19 OF 30

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 188	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-19
PLOT DATE : 11/4/2020 4:12 PM
PLOT BY : WAGNER, SCOTT H
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- S.P. SIGNAL POLE
- L.P. LIGHT POLE

N

294 BEGIN LEFT TURN LANE R3-20-L

W3-3 ESTR

N. 64th St. NEXT SIGNAL 293 D1-65

ONE WAY R6-2-L ESTR

292 ONE WAY R6-2-R (2S)

DO NOT ENTER R5-1 ESTR

BEAVER CREEK

N. 60th St. NEXT SIGNAL REMOVE

N. 60th St. NEXT SIGNAL 290 D1-65

SPEED LIMIT 40 R2-1 ESTR

STH 100 (BROWN DEER RD)

394+00 395+00 396+00 397+00 398+00 399+00

63 62 61

3-6'X18' 4 TURNS EA.

330' TO NEAR RIGHT SIGNAL

PB20

SERVICE RO

291 BEGIN LEFT TURN LANE R3-20-L

408 REMOVE

W3-3 ESTR

409 W3-3 (2M)

NO PARKING ANY TIME R7-1-D ESTR

ST. MARTIN'S EPISCOPAL CHURCH
ST. MARK LUTHERAN CHURCH
TRINITY CHURCH
ESTR
FINGERBOARDS
PERMIT SIGN BY OTHERS
CONTACT
TOM HEYDEL WISDOT

NO PARKING ANY TIME R7-1-D ESTR

SHEET 20 OF 30

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 189	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-20

PLOT DATE : 11/4/2020 4:13 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- S.P. — SIGNAL POLE
- L.P. — LIGHT POLE

2

2

N

STH 100 (BROWN DEER RD)

SERVICE ROAD

SERVICE RD

N 60TH ST

ONLY

ONLY

40'

45'

400+00

401+00

402+00

403+00

404+00

405+00

(321) 100 M1-6 / M6-4 / J3-1(2S)

(318) REMOVE DIVIDED HIGHWAY R6-3 (2M)

(317) STOP R1-1F (2M) ON S.P.

(319) ONE WAY R6-2-L(2S) ON S.P.

(320) REMOVE N 60th St — M1-94H ON SIGNAL ARM, PERMIT SIGN, VILLAGE OF BROWN DEER SIGN

WEST M3-4 / 100 M1-6 / NO PARKING ANY TIME R7-1-D / J4-1 ESTR

W. Brown Deer Rd REMOVE

(314) W. Brown Deer Rd M1-94-S ON SIGNAL ARM

(309) DO NOT ENTER R5-1(2M) ON S.P.

(308) REMOVE STOP R1-1F(2M) ON S.P.

(306) REMOVE STOP R1-1F(2M) ON S.P.

(305) REMOVE SPEED LIMIT 40 R2-1(2M)

(307) DO NOT ENTER R5-1(2M) ON S.P.

(323) DO NOT ENTER R5-1(2M) ON S.P.

(315) (316) REMOVE R4-1(2M) ON L.P.

(298) DO NOT ENTER R5-1 ON S.P.

(410) REMOVE R5-2(2S)

(296) BEGIN LEFT TURN LANE R3-20-LL(2M)

(297) REMOVE STOP R1-1F(2M) ON S.P.

(322) REMOVE STOP R1-1F(2M) ON S.P.

(295) W. Brown Deer Rd REMOVE; W. Brown Deer Rd M1-94-S ON SIGNAL ARM

(302) 100 M1-6 / M6-4 / J3-1(2S)

(301) ONE WAY R6-2-L (2S) ON S.P.

(304) NO PARKING ANY TIME R7-1-D(2M) ON S.P.

(303) N. 60th St REMOVE 60th M1-94H ON SIGNAL ARM, PERMIT SIGN, VILLAGE OF BROWN DEER SIGN

(300) REMOVE DIVIDED HIGHWAY R6-3 (2M)

(299) STOP R1-1F (2M)

SPEED LIMIT 40 R2-1 ESTR

SHEET 21 OF 30

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 190	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-21

PLOT DATE : 11/17/2020 4:02 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- S.P. SIGNAL POLE
- L.P. LIGHT POLE

N

329 BEGIN LEFT TURN LANE
R3-20-LL (2M)

328 ONE WAY
R6-2-R (2S)

411
ST. MARTIN'S EPISCOPAL CHURCH
ST. MARK LUTHERAN CHURCH
TRINITY CHURCH
MOVE
FINGERBOARDS
PERMIT SIGN BY OTHERS
CONTACT
TOM HEYDEL WISDOT

NO PARKING ANY TIME
R7-1-D
ESTR

327 BEGIN LEFT TURN LANE
R3-20-L (2M)

W3-3
ESTR

NO PARKING ANY TIME
R7-1-D
ESTR

ONE WAY
R6-1-R
ESTR

STH 100 (BROWN DEER RD)

406+00 407+00 408+00 409+00 410+00 411+00

ICPB125

N. 60th St.
NEXT SIGNAL
REMOVE

326 N. 60th St.
NEXT SIGNAL
D1-65

324 EAST
M3-2

100
M1-6
J4-1(2M)

412 N. 55th St.
N. 56th St.
D1-2 (MOD)

R3-2
ESTR

NO PARKING ANY TIME
R7-1-D
ESTR

SHEET 22 OF 30

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 191	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-22

PLOT DATE : 11/17/2020 4:06 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- S.P. SIGNAL POLE
- L.P. LIGHT POLE

2

2

N

NO PARKING ANY TIME
R7-1-D
ESTR

SPEED LIMIT 40
R2-1
ESTR

REMOVE
336
337
R4-7(2M)

STOP
REMOVE
335
STOP
R1-1(2M)

N 55TH ST

XXXX XXXX

STH 100 (BROWN DEER RD)

412+00

413+00

414+00

415+00

416+00

334
R4-7(2M)

STH 100

413
R3-4
MOVE
UNDER #337

STH 100 (BROWN DEER RD)

SERVICE RD

NO PARKING ANY TIME
R7-1-D
ESTR

DO NOT ENTER
330
R5-1 (2M)

BLDG

N 56TH ST

XXXX XXXX XXXX

STOP
REMOVE
331
STOP
R1-1(2M)

443
R9-3-A(2S)

443A
USE SIDEWALK
R9-3-BL(2S)

NO PARKING ANY TIME
R7-1-D
ESTR

332
ONE WAY
R6-2-L(2S)

REMOVE
333
R4-7(2M)

SHEET 23 OF 30

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 192	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-23

PLOT DATE : 11/4/2020 4:14 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- S.P. — SIGNAL POLE
- L.P. — LIGHT POLE

N

414
N. 56th St.
N. 55th St.
D1-2 (MOD)

NO PARKING ANY TIME
R7-1-D
ESTR

339
340
R4-7 (2M)

STH 100 (BROWN DEER RD)

418+00 419+00 420+00 421+00 422+00 423+00

STH 100 (BROWN DEER RD)

SERVICE RD

SERVICE ROAD

EXISTING BROWN DEER WAY FINDERS SIGNS

NO PARKING ANY TIME
R7-1-D
ESTR

SPEED LIMIT 40
R2-1
ESTR

W3-3
ESTR

338
ONE WAY
R6-2-L (2S)

SHEET 24 OF 30

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 193	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-24

PLOT DATE : 11/17/2020 4:09 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- S.P. — SIGNAL POLE
- L.P. — LIGHT POLE

2

2

N

WEST
M3-4
100
M1-6
ESTR
J4-1

NO PARKING
R7-1-D
ESTR

SPEED LIMIT 40
R2-1
ESTR

STH 100 (BROWN DEER RD)

423+00 424+00 425+00 426+00 427+00 428+00 429+00

STH 100 (BROWN DEER RD)

SERVICE RD

N 52ND ST

NO PARKING
R7-1-D
ESTR

N. 51st St.
NEXT SIGNAL
REMOVE
N. 51st St.
NEXT SIGNAL
341
D1-65

BEGIN LEFT TURN LANE
REMOVE
BEGIN LEFT TURN LANE
342
R3-20-L (2M)

BEGIN LEFT TURN LANE
REMOVE
BEGIN LEFT TURN LANE
343
R3-20-LL (2M)

SHEET 25 OF 30

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 194	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-25

PLOT DATE : 11/4/2020 4:15 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- S.P. SIGNAL POLE
- L.P. LIGHT POLE

N

STH 100 (BROWN DEER RD)

N 51ST ST

ONLY

XXXX XXXX XXXX

XXXX XXXX

429+00 430+00 431+00 432+00 433+00 434+00

364 100 M1-6 M6-4 J3-1(2S)

REMOVE DIVIDED HIGHWAY 363 R6-3 (2M)

STOP 362 R1-1F (2M) ON S.P.

REMOVE W. Brown Deer Rd 416 M1-94-S ON SIGNAL ARM BROWN SIGN PERMIT SIGN

REMOVE ONE WAY 365 R6-2-L (2S) ON S.P.

REMOVE N. 51st St 420 M1-94H ON SIGNAL ARM PERMIT SIGN VILLAGE OF BROWN DEER SIGN

REMOVE ONE WAY 361 R6-2-L (2S) ON S.P.

LEFT TURN YIELD ON FLASHING YELLOW ARROW R10-50 ESTR

REMOVE DO NOT ENTER 353 359 R5-1 (2M) ON S.P.

REMOVE STOP 354 R1-1F (2M) ON S.P.

REMOVE 357 358 R4-7 (2M) ON S.P.

BEGIN LEFT TURN LANE R3-20-LL ESTR

REMOVE STOP 360 R1-1F (2M) ON S.P.

REMOVE DO NOT ENTER 356 R5-1 (2M) ON S.P.

LEFT TURN YIELD ON FLASHING YELLOW ARROW R10-50 ESTR

REMOVE STOP 344 R1-1F (2M) ON S.P.

REMOVE DO NOT ENTER 345 R5-1 (2M)

REMOVE W. Brown Deer Rd 417 M1-94-S ON SIGNAL ARM BROWN SIGN PERMIT SIGN

100 346 M1-6 M6-4 J3-1(2S)

REMOVE DIVIDED HIGHWAY 348 R6-3 (2M)

STOP 347 R1-1F (2M) ON S.P.

NO PARKING ANY TIME R7-1-D ESTR

REMOVE N. 51st St 421 M1-94H ON SIGNAL ARM PERMIT SIGN VILLAGE OF BROWN DEER SIGN

REMOVE ONE WAY 355 R6-2-L (2S)

EAST M3-2 100 M1-6 J4-1 ESTR

W11-2 AHEAD W16-9P ESTR

SHEET 26 OF 30

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 195	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-26

PLOT DATE : 11/4/2020 4:15 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- S.P. — SIGNAL POLE
- L.P. — LIGHT POLE

N. 51st St. NEXT SIGNAL
REMOVE

N. 51st St. NEXT SIGNAL (367)
D1-65

RIGHT TURN ONLY
R3-53-R
ESTR

BEGIN LEFT TURN LANE
R3-20-L
ESTR

ONE WAY
R6-2-R
ESTR

R4-7

R3-4
ESTR

W3-3
ESTR

SPEED LIMIT 40
R2-1
ESTR

NO PARKING ANY TIME
R7-1-D
ESTR

STH 100 (BROWN DEER RD)

435+00 436+00 437+00 438+00 439+00 440+00

SPEED LIMIT 40
R2-1
ESTR

DO NOT ENTER (366)
R5-1 (2M)

R3-2
ESTR

R4-7

R3-4
ESTR

Arbon Dr.
D1-1
ESTR

NO PARKING ANY TIME
R7-1-D
ESTR

STH 100 (BROWN DEER RD)

SHEET 27 OF 30

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 196	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-27

PLOT DATE : 11/4/2020 4:15 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- S.P. — SIGNAL POLE
- L.P. — LIGHT POLE

N

N ARBON DR

STH 100 (BROWN DEER RD)

XXXX XXXX

XXXX XXXX XXXX

Arbon Dr.
D1-1
ESTR

439 W11-2 (2M) 439A W16-7L (2M)

379 REMOVE STOP R1-1 (2M)

380 REMOVE ONE WAY

381 ONE WAY R6-2-L(2S)

377 REMOVE W11-2 (2M) 378 W16-7L (2M)

375 REMOVE W11-2 (2M) 376 W16-7R(2M)

382 R4-7(2M) 383 REMOVE R3-4 (2M) MOVE 384 Time of Day

371 R4-7(2M) 372 REMOVE R3-4 (2M) MOVE 373 Time of Day

441+00 442+00 443+00 444+00 445+00 446+00

435 W11-2 (2M) 436 W16-7R(2M)

437 W11-2 (2M) 437A W16-7R(2M)

REMOVE 385 W11-2 (2M) 386 W16-7R(2M)

440 W11-2 (2M) 440A W16-7L (2M)

REMOVE 368 W11-2 (2M) 369 W16-7L (2M)

REMOVE STOP 370 R1-1 (2M)

REMOVE ONE WAY 374 R6-2-L(2S)

NO PARKING R7-1-D ESTR

SPEED LIMIT 40 R2-1 ESTR

R R W10-1 ESTR

R4-7 ESTR

SHEET 28 OF 30

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 197	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-28

PLOT DATE : 11/4/2020 4:16 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

VMS VARIABLE MESSAGE SIGN

EXISTING LIGHT OR SIGNAL POLE

SIGN BRIDGE

CANTILEVER SIGN BRIDGE

XXX DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

S.P. SIGNAL POLE

L.P. LIGHT POLE

N

W11-2
AHEAD
W16-9P
ESTR

NO PARKING ANY
R7-1-D
ESTR

STH 100 (BROWN DEER RD)

446+00

447+00

448+00

449+00

450+00

451+00

452+

STH 100

STH 100 (BROWN DEER RD)

W11-15
AHEAD
W16-9P
ESTR

RIVER LANE

SHEET 29 OF 30

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 198	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-29

PLOT DATE : 11/4/2020 4:16 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N DEERBROOK TR

N DEERWOOD DR

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — INDICATES SIGN SIZE
- S.P. — SIGNAL POLE
- L.P. — LIGHT POLE

N

STH 100 (BROWN DEER RD)

452+00 453+00 454+00 455+00 456+00 457+00 458+00

STH 100 (BROWN DEER RD)

N DEERBROOK TR

NO SIGNS
THIS SHEET

SHEET 30 OF 30

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 199	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIGN\023201_PS.DWG
LAYOUT NAME - Sht-30

PLOT DATE : 11/4/2020 4:16 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

TRAFFIC & STREET LIGHTING GENERAL NOTES:

PRIOR TO CONSTRUCTION, THE LOCATION OF UNDERGROUND UTILITIES SHALL BE DETERMINED IN THE FIELD BY CONTACTING "DIGGERS HOTLINE."

STREET LIGHTING & TRAFFIC SIGNALS SHALL BE INSTALLED IN COMPLIANCE WITH WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS SECTION 652 EXCEPT:

THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS INCLUDING REPAIRS, REPLACEMENT OR RELOCATION ETC. OF STREET LIGHTING OR TRAFFIC SIGNAL FACILITIES IF THE CONTRACTOR DOES ANY DEVIATION FROM THE STREET LIGHTING OR TRAFFIC SIGNAL DESIGN WITHOUT THE STREET LIGHTING OR TRAFFIC ENGINEER'S SIGNED PERMISSION.

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

2 LOCATIONS OF THE PVC CONDUITS WHERE THEY ARE REQUIRED ARE IDENTIFIED IN THE PRINTS. HOWEVER, INSTALLATION MAY REQUIRE INTEGRATION WITH EXISTING FIELD CONDITIONS. APPROPRIATE ADJUSTMENT ON CONDUIT LOCATIONS MAY BE MADE IF THE FIELD CONDITIONS ARE SUCH THAT THE CONDUIT CANNOT BE INSTALLED AT THE SPECIFIED LOCATIONS. ANY RELOCATIONS MUST BE APPROVED BY THE ENGINEER. FIELD MARK EACH CONDUIT LOCATION BY STAMPING AND PAINTING WITH RED PAINT ON TOP AND BACKSIDE OF CURB.

3 TYPICAL CONDUIT INSTALLED UP TO DIRECT BURIED STREET LIGHT POLES IS AS FOLLOWS 3-INCH OR 2.5-INCH (AS NOTED) SCHEDULE 40 RIGID PVC TO STREET LIGHTING METAL HOUSING (PEDESTAL), THE 1.5-INCH SCHEDULE 40 RIGID PVC TO STREET LIGHT POLE CABLE SLOT, AND THE 2-INCH SCHEDULE 40 RIGID PVC TO SIGNAL STANDARD BASE AND RISER FOR TRAFFIC SIGNAL ON STREET LIGHT POLE.

4 DEPTH OF CONDUIT INSTALLED BELOW THE STREETS, HIGHWAYS, ROADS, AND ALLEYS SHALL BE 24-INCHES MINIMUM AND 36-INCHES MAXIMUM. (MEASURED FROM FINISHED FLANGE LINE)

5 CONDUIT INSTALLED BEHIND CURB, AND UNDER DRIVEWAYS SHALL BE INSTALLED AT THE BASE OF THE BACKSIDE OF THE CURB/GUTTER SECTION.

6 WHEN THERE IS MORE THAN ONE CONDUIT TO BE LAID BEHIND THE CURB, PLACE ALL CONDUITS IN THE SAME TRENCH.

7 ANY EXCEPTION TO THE MINIMUM OR MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

8 THE CONTRACTOR OR HIS SUBCONTRACTOR MUST MAKE SURE THE AREA BEHIND CURB AND/OR WITHIN TRENCH SHALL BE FREE OF DEBRIS AND OVERPOUR AND SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

9 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.

10 ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON ALL CONDUITS. (SEE NEC 352.28 2008 CODE)

11 PRIOR TO CONDUIT ACCEPTANCE, ALL CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND BE CAPPED IMMEDIATELY AFTER INSTALLATION WITH THE APPROPRIATE CAST PLASTIC CAP WHICH FITS SNUGGLY ON THE CONDUIT, BUT EASILY REMOVED IN THE FUTURE. DUCT TAPE OR ANY OTHER CAPPING METHOD IS NOT ACCEPTABLE.

12 ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

13 CONDUIT RUNS SHALL BE THE SAME SIZE PIPE FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX OR JUNCTION BOX OR BASE TO BASE, ETC.).

14 PULL ROPE (3/8-INCH NYLON) SHALL BE INSTALLED IN ALL NEW CONDUIT.

15 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 UNLESS OTHERWISE APPROVED BY THE STREET LIGHTING ENGINEER.

16 WHEN ENDS OF CONDUIT DO NOT CONNECT TO A VAULT AND WILL END UP UNDER CONCRETE WALK. THE CONTRACTOR IS REQUIRED TO LEAVE A 24" X 24" BOX FORM CENTERED OVER THE END OF CONDUIT AND FILL THE BOXFORM WITH CRUSHED GRAVEL. (PER WISDOT SPEC 209.2.1(1) GRANULAR BACKFILL)

17 ALL PIPE CROSSINGS AND VAULTS SHALL BE AT LEAST SIX (6) FEET AWAY FROM FIRE HYDRANTS, UNLESS NOTED OTHERWISE, OR APPROVED BY THE STREET LIGHTING ENGINEER.

18 ALL POLES AND TRAFFIC STANDARDS IN CONCRETE ARE REQUIRED TO HAVE A 30"X30" BOX SHAPED JOINT PLACED AROUND THEM USING AN EXPANSION JOINT FILLER. UNLESS NOTED OTHERWISE (SEE DETAIL 122)

19 TYPICAL RECTANGULAR VAULTS SHOULD BE INSTALLED AS SHOWN ON PLANS, BUT WHEN IT IS NOT POSSIBLE, A 5 FT. TO 6 FT. OFFSET FROM STREET LIGHT POLES, SIGNAL STANDARDS AND FIRE HYDRANTS SHOULD BE USED, OTHERWISE APPROVED BY THE STREET LIGHTING ENGINEER.

20 COORDINATE NEW CONDUIT CONNECTIONS WITH EXISTING CONDUIT, DUCT PACKAGES, AND VAULTS/ MANHOLES WITH CITY OF MILWAUKEE STREET LIGHTING. THE CITY REQUIRES THREE WORKING DAYS ADVANCED NOTICE. CONTACT ELECTRICAL SUPERVISOR
STREET LIGHTING - DENNIS MILLER (OFFICE) 414-286-5942 (CELL) 414-708-4251 OR DISPATCHER @ 414-286-5944
TRAFFIC SIGNALS - AL NICHOLS (OFFICE) 414-286-3687 (CELL) 414-708-5148 OR DISPATCHER @ 414-286-3687

STREET LIGHTING GENERAL NOTES:

21 CONTRACTOR MUST WORK IN CONCERT WITH THE TEMPORARY STREET LIGHTING AND/OR TRAFFIC SIGNAL OVERHEAD FACILITIES AND TEMPORARY POLES. CONTRACTOR IS RESPONSIBLE TO TAKE ALL NECESSARY ACTION TO ENSURE THE CONSTRUCTION PROCESS IS NOT IMPEDED BY TEMPORARY FACILITIES. LATERAL AND VERTICAL CONSTRAINTS MUST BE IDENTIFIED IN WRITING TO THE CITY'S UTILITY COORDINATOR TWO WEEKS PRIOR TO THE SCHEDULED CONSTRUCTION START DATE IN ORDER TO OBTAIN THE DESIGNER'S APPROVAL FOR OVERHEAD FACILITIES ADJUSTMENT. AFTER THE CONSTRUCTION START DATE, CONTRACTOR IS RESPONSIBLE FOR ANY NECESSARY SERVICE FEE FOR TEMPORARY FACILITY ADJUSTMENT AND ASSUME FULL RESPONSIBILITY FOR ANY PROJECT DELAY.

22 IMMEDIATELY AFTER THE CONTRACTOR HAS COMPLETED ALL THE ELECTRICAL VAULT, CONDUIT AND CONDUIT CONNECTIONS, AND JUST BEFORE ELECTRICAL WORK IS COVERED UP WITH CONRETE, SOIL, OR ETC. THE CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SHOP SUPERVISORS FOR FINAL INSPECTION AND APPROVAL OF ALL WORK.
STREET LIGHTING - MARK MACRAE (OFFICE) 414-286-5928 (CELL) 414-708-0434
STREET LIGHTING - GEORGE BERDINE (OFFICE) 414-286-5943 (CELL) 414-708-4245
STREET LIGHTING - THOMAS HUGHES (OFFICE) 414-286-3457 (CELL) 414-708-3175
STREET LIGHTING - DISPATCHER @ 414-286-3015
TRAFFIC SIGNALS - AL NICHOLS (OFFICE) 414-286-3687 (CELL) 414-708-5148

23 CONDUIT WILL ONLY BE INSTALLED AFTER THE CURB IS POURED, UNLESS APPROVED BY BOTH THE ENGINEER & STREET LIGHTING SHOP SUPERVISOR.

24 CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

25 CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SERVICES FOR FINAL INSPECTION AND APPROVAL OF ALL ELECTRICAL WORK BEFORE ANY MATERIALS ARE COVERED UP OR BACKFILLED.

26 ALL PURPOSE ANTISEIZE (OR EQUIV) TO BE APPLIED ON ALL BOLTS AND SCREWS ESPECIALLY THE LIGHT POLE HAND HOLE PANEL. OXIDE INHIBITOR OX-4 (OR EQUIV) TO BE APPLIED ON ALL WIRE CONNECTION AND WIRE NUTS. TAG ALL CABLE DIRECTION IN VAULT AND HAND HOLE PANEL.

27 Provide three sets as-built drawings detailing the final placement of conduit, cabling, equipment, and geometric modifications under the contract. Provide PDF copy conforming to CMM 1-65.14, or record all changes in Red Ink Only on the As-Let (Design) paper drawings. The City will reject as-builts with incomplete or incorrect content or not conforming to CMM standards.

As-Built Guidelines:

< Locate and clearly label all conduit runs, fittings, splice vaults, pull boxes, meter pedestals, concrete bases, transformers, poles and other appurtenances in two directions. Swing ties should be made from objects that are permanent in nature and visible on the finished surface.
< Street names shall be on all sheets.
< Show all sizes and material types of pipes and conduits, if changed or modified from original design.
< All horizontal distances shall be shown to the nearest tenth of a foot [i.e., 205.3']. All vertical distances shall be shown to the nearest inch [i.e., 24"].
< Show location and elevations on pipes and fittings where changes or deflections in direction occur.
< Special detail drawings may be required where installations are not shown on approved construction drawings for whatever reason or where required for clarity.
< Typical service installation details with deviations from original plans or standard details shall be noted on as-built drawings.
< No arbitrary mark-ups will be permitted.

If there are no corrections or additions to the As-Let plan(s) put "NO CHANGE" on the sheet with other required As-Built information.

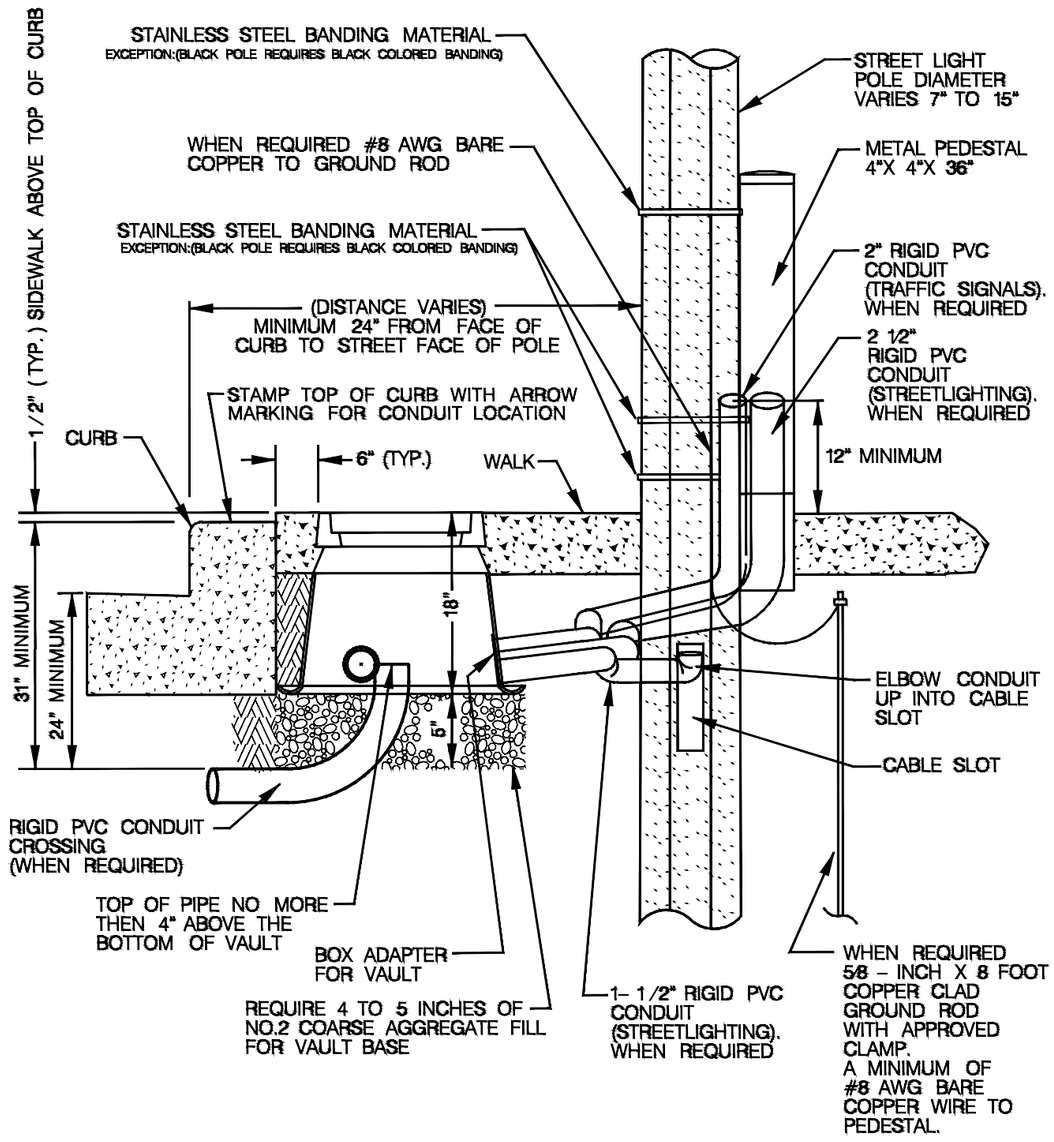
Send to:
City of Milwaukee
Infrastructure Services Division
Transportation Section
Street Lighting & CUC Manager
841 N. Broadway (Room 920)
Milwaukee, WI. 53202

28 RETURN ALL REMOVED STREET LIGHTING FIXTURES TO STREET LIGHTING FIELD OFFICE (ATTN: JILL KRAMER)
1540 W. CANAL ST. MILWAUKEE WI 53233

UTILITY LINE CODE

SAN	SANITARY SEWER
STO	STORM SEWER
W	WATER
G	GAS
G	PROPOSED GAS
E	ELECTRIC
TE&ES	TRAFFIC & STREET LIGHTING
	OLD CITY UNDERGROUND CONDUIT
CUC	PROPOSED CITY UNDERGROUND CONDUIT
T	TELEPHONE
TV	CABLE

2



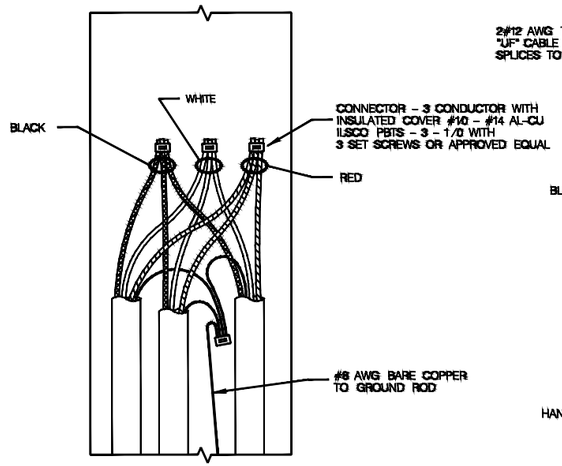
108 DETAIL

TYPICAL CONDUIT INSTALLATION FROM VAULT TO POLE

NOT TO SCALE

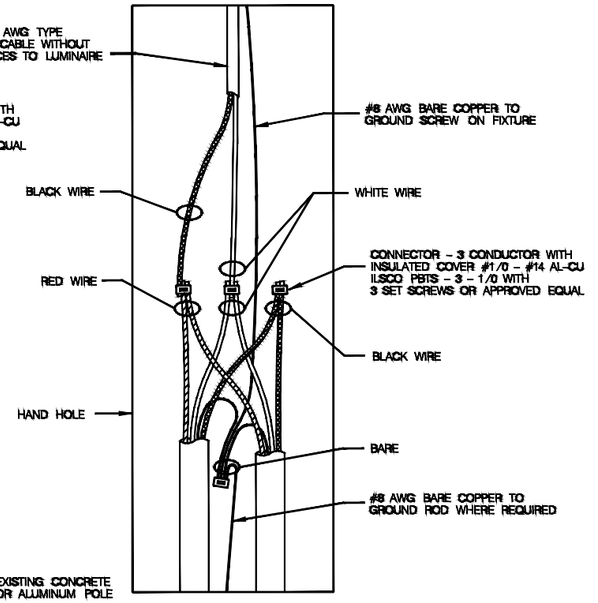
ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES. CONTACT DISPATCHER AT 414 414 ~~286-5~~944 FOR THE APPROPRIATE SHOP SUPERVISOR.

2



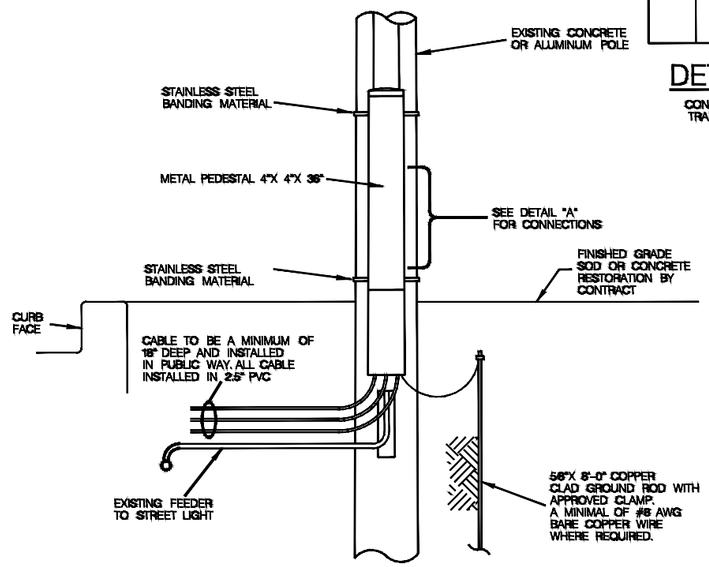
DETAIL "A"

CONNECTIONS WITHIN PEDESTAL CABINET



DETAIL "B"

CONNECTIONS WITHIN TRANSFORMER BASE



DETAIL

TYPICAL WIRING CONNECTIONS IN TRANSFORMER BASE & PEDESTAL HOUSING ON POLE

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES. CONTACT DISPATCHER AT 414 414 286-5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

NOTES:

1. STAINLESS 1/4 X 20 X 1" CARRIAGE BOLT FOR GROUNDING IN BACK PANEL 1/2" DIA. AREA FREE OF PAINT AROUND BOLT.

2. EXTERNAL DIMPLES TO PROVIDE BACK PANEL CLEARANCE TO POLE FOR OPENING AND CLOSING UPPER PANEL.

3. RECESSED CUP PERMITS RECESSING 5/16 HEX HEAD LOCKING BOLT. THIS BOLT FITS PRESENT CITY OF MILWAUKEE TOOLING, LOCKING BOLT IS HELD IN PLACE WITH RETAING RING. THIS BOLT MAY BE REPLACED BY A SECURITY BOLT IF DESIRED.

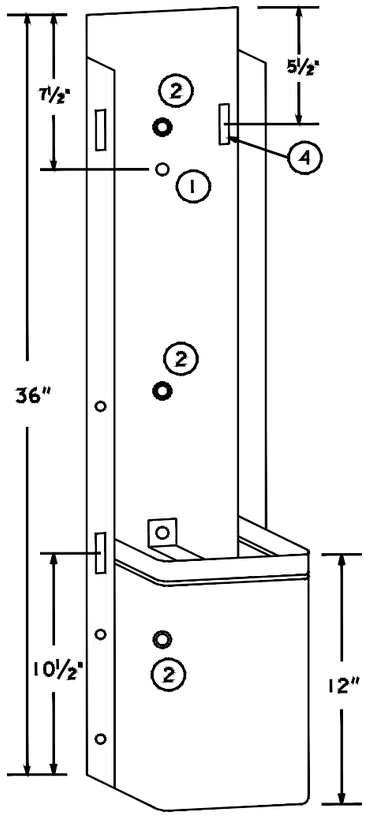
4. 1/4 X 1-1/4" SLOT (4) FOR BANDING ACCESS.

5. DOGLEG SLOT PREVENTS PULLING COVER OUTWARD WHILE LOCKED.

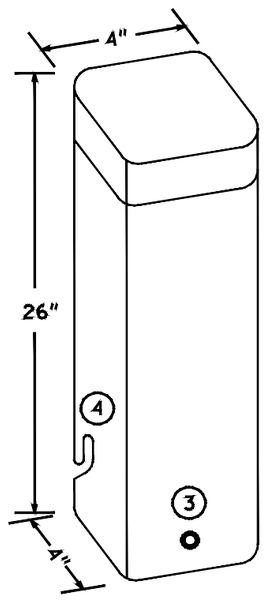
6. HORIZONITAL SLOT PREVENTS PULLING COVER UPWARD WHILE LOCKED.

7. SHOULDER RIVETS PROVIDE FOR SECURITY IN UNIT WHEN USED IN CONJUNCTION WITH ITEMS 5 & 6.

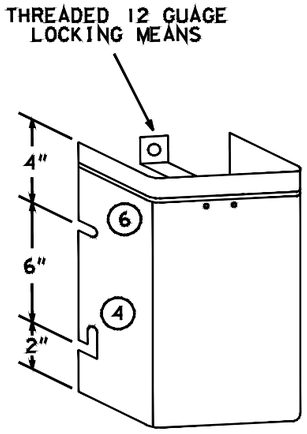
NOT TO SCALE



BACK PANEL WITH LOWER INSTALLED



UPPER FRONT REMOVED



LOWER REMOVED

METAL WIRING PEDESTAL 4"X 4"X 36"

2

2

N

CITY OF MILWAUKEE LIGHTING DISTRIBUTION CENTER T-32NW
IS LOCATED APPROXIMATELY 1800 FT NORTH
OF STH 100 ON N 85TH ST (WEST SIDE OF ROAD).

85TH ST.

STH 100

320 325 330 335 340 345

STH 100

N. SERVITE DR.

N. 76TH ST.

CITY OF MILWAUKEE LIGHTING DISTRIBUTION CENTER T37NW SEC
IS LOCATED APPROXIMATELY 250 FT EAST
OF N 76TH ST ON STH 100 (SOUTH SIDE OF ROAD).

PROJECT NO: 2150-00-01	HWY: STH 100	COUNTY: MILWAUKEE	LIGHTING PLANS - OVERVIEW	SHEET 204	E

2

LEGEND

CONDUIT - 2.5" UNLESS OTHERWISE SHOWN

EXISTING SINGLE ARM CITY LIGHTING UNIT

EXISTING DOUBLE ARM CITY LIGHTING UNIT

CABLE FROM DISTRIBUTION CENTER T-32NW
NOTE 1

3*2 / 1*8 LTP

319+41. 234' LT
EXISTING TO REMAIN

3*2 / 1*8 LTP
NOTE 2

3*6 / 1*8 LTP
NOTE 2

85TH ST.

3*6 / 1*8 LTP
NOTE 2

318+87. 96' LT
NOTE 4

319+88. 87' LT
NOTE 4

XXXX XXXX

N

2"

STH 100

315

320

3*2 / 1*8 LTP
NOTE 3

3*8 / 1*8 LTP
NOTE 3

2"

3*4 / 1*8 LTP
NOTE 1

3*8 / 1*8 LTP
NOTE 1

STH 100

MATCHLINE STA. 322+00

316+45. 2' LT
EXISTING TO REMAIN

317+81. 11' LT
EXISTING TO REMAIN

319+09. 10' LT

320+08. 9' RT

321+44. 9' RT
EXISTING TO REMAIN

3*4 / 1*8 LTP
NOTE 1

NOTES:

1. EXISTING WIRE AND CONDUIT TO REMAIN.
2. REMOVE EXISTING WIRES FROM CONDUIT.
3. REMOVE EXISTING WIRE AND CONDUIT INCIDENTAL TO LIGHTING UNIT REMOVAL.
4. SEE PROPOSED LIGHTING PLAN FOR CONDUIT CONTINUATION.
5. LIGHTING DISTRIBUTION CENTER T-32NW IS LOCATED APPROXIMATELY 1800 FT NORTH OF STH 100 ON N 85TH ST (WEST SIDE OF ROAD).

SHEET 1 OF 4

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	LIGHTING PLANS - REMOVALS	SHEET 205	E

LEGEND

CONDUIT - 2.5" UNLESS OTHERWISE SHOWN

EXISTING SINGLE ARM CITY LIGHTING UNIT

EXISTING DOUBLE ARM CITY LIGHTING UNIT

N

322+75, 58' LT
EXISTING TO REMAIN

324+40, 58' LT
EXISTING TO REMAIN

325+79, 58' LT
EXISTING TO REMAIN

327+25, 58' LT
EXISTING TO REMAIN

328+69, 58' LT
EXISTING TO REMAIN

3*4 / 1*8 LTP NOTE 1

STH 100

325

MATCHLINE STA. 322+00

MATCHLINE STA. 329+15

STH 100

322+78, 58' RT
EXISTING TO REMAIN

324+41, 58' RT
EXISTING TO REMAIN

325+79, 57' RT
EXISTING TO REMAIN

327+23, 59' RT
EXISTING TO REMAIN

328+68, 59' RT
EXISTING TO REMAIN

3*4 / 1*8 LTP
NOTE 1

NOTES:

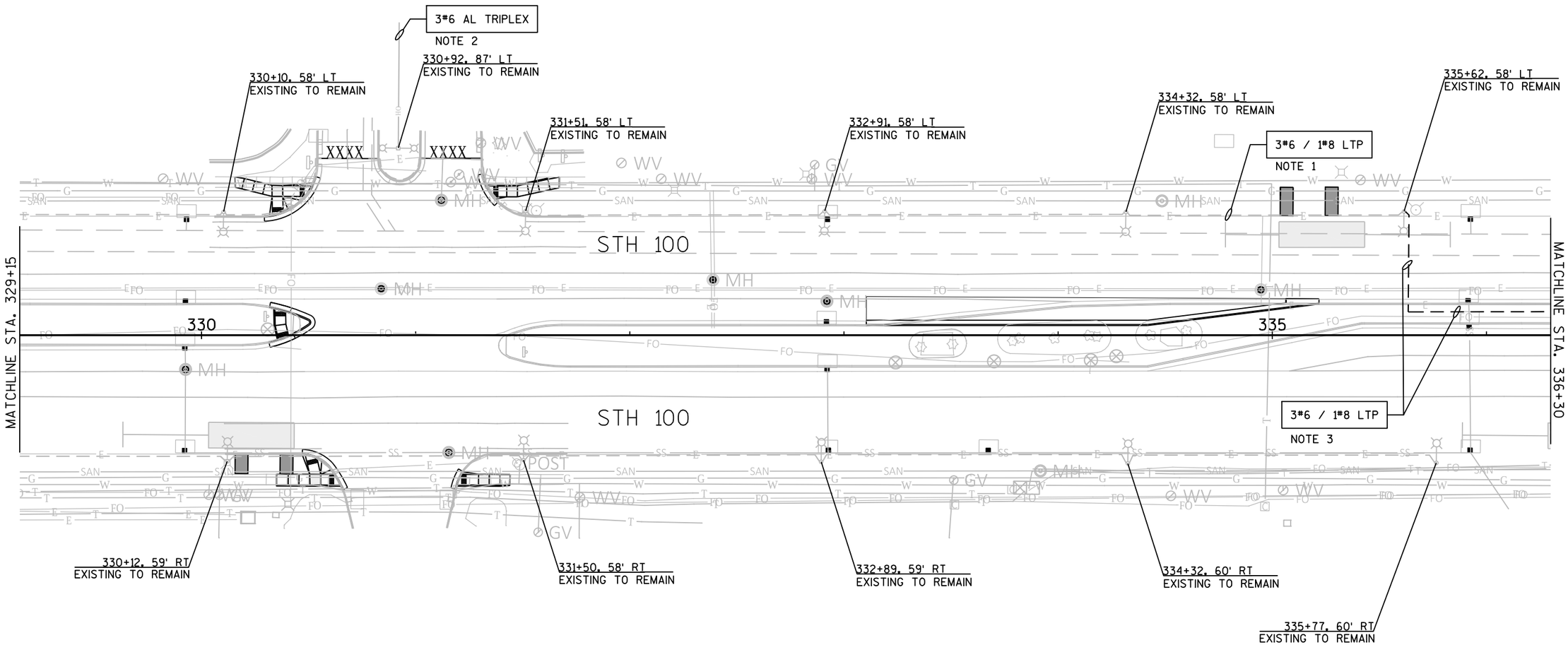
1. EXISTING WIRE AND CONDUIT TO REMAIN.

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	LIGHTING PLANS - REMOVALS	SHEET 206	E

FILE NAME : \\DC201\MILWAUKEE OFFICE\PROJECTS\19254\2150-00-01\05_CADD\CADD DRAWINGS\023501_LP.DWG
LAYOUT NAME - 023502_lp
PLOT DATE : 7/30/2020 4:02 PM
PLOT BY : WILLIAM NEAVE
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 42

LEGEND

- CONDUIT - 2.5" UNLESS OTHERWISE SHOWN
- EXISTING SINGLE ARM CITY LIGHTING UNIT
- EXISTING DOUBLE ARM CITY LIGHTING UNIT
- OVERHEAD WIRE CABLE
- EXISTING DOUBLE ARM ON WOOD POLE CITY LIGHTING UNIT



NOTES:

1. EXISTING WIRE AND CONDUIT TO REMAIN.
2. OVERHEAD EXISTING WIRE CABLE TO REMAIN.
3. REMOVE EXISTING WIRE AND CONDUIT INCIDENTAL TO LIGHTING UNIT REMOVAL.

LEGEND

- CONDUIT - 2.5" UNLESS OTHERWISE SHOWN
- EXISTING SINGLE ARM CITY LIGHTING UNIT
- EXISTING DOUBLE ARM CITY LIGHTING UNIT
- OVERHEAD WIRE CABLE
- EXISTING SINGLE ARM ON WOOD POLE CITY LIGHTING UNIT
- EXISTING DOUBLE ARM ON WOOD POLE CITY LIGHTING UNIT

337+31, 212' LT
EXISTING TO REMAIN

338+11, 211' LT
EXISTING TO REMAIN

2*2 / 1*4 AL TRIPLEX
NOTE 3

337+75, 108' LT

338+59, 87' LT
NOTE 5

338+57, 9' RT

339+85, 57' LT
EXISTING TO REMAIN

341+43, 58' LT
EXISTING TO REMAIN

342+66, 58' LT
EXISTING TO REMAIN

337+03, 12' LT

MATCHLINE STA. 336+30

STH 100

340

3*6 / 1*8 LTP
NOTE 4

3*8 / 1*8 LTP
NOTE 4

3*2 / 1*8 LTP
NOTE 2

3*2 / 1*8 LTP
NOTE 1

337+91, 82' RT

339+88, 60' RT
EXISTING TO REMAIN

341+37, 59' RT
EXISTING TO REMAIN

342+65, 70' RT
EXISTING TO REMAIN

SERVITE DR.

3*4 / 1*8 LTP
NOTE 2

337+58, 222' RT
EXISTING TO REMAIN

3*4 / 1*8 LTP
NOTE 1

NOTES:

1. EXISTING WIRE AND CONDUIT TO REMAIN.
2. REMOVE EXISTING WIRES FROM CONDUIT.
3. REMOVE EXISTING OVERHEAD WIRE CABLE INCIDENTAL TO LIGHTING UNIT REMOVAL.
4. REMOVE EXISTING WIRE AND CONDUIT INCIDENTAL TO LIGHTING UNIT REMOVAL.
5. REMOVE THE EXISTING WOOD POLE LIGHTING UNIT AND KEEP THE METAL PEDESTAL AT POLE FOR SPLICING AND CONTINUATION.
6. LIGHTING DISTRIBUTION CENTER T-37NW SEC IS LOCATED APPROXIMATELY 250 FT EAST OF N 76TH ST ON STH 100 (SOUTH SIDE OF ROAD).

2

2

LEGEND

CONDUIT - 2.5" UNLESS OTHERWISE SHOWN

EXISTING SINGLE ARM CITY LIGHTING UNIT

EXISTING DOUBLE ARM CITY LIGHTING UNIT

CABLE FROM DISTRIBUTION CENTER T-32NW

3*2 / 1*8 LTP
NOTE 3

319+41, 234' LT
NOTE 2

3*6 / 1*8 LTP IN EXISTING CONDUIT
NOTE 5

3*2 / 1*8 LTP IN EXISTING CONDUIT
NOTE 5

85TH ST.

318+87, 96' LT
INTERCEPT EXISTING CONDUIT AT POLE BASE

319+88, 87' LT
INTERCEPT EXISTING CONDUIT AT POLE BASE

3*6 / 1*8 LTP IN EXISTING CONDUIT
NOTE 5

3*2 / 1*8 LTP
NOTE 4

3*6 / 1*8 LTP IN EXISTING CONDUIT
NOTE 5

STH 100

2"

315

320

3*8 / 1*8 LTP
NOTE 3

STH 100

2"

3*4 / 1*8 LTP

MATCHLINE STA. 322+00

316+45, 2' LT
NOTE 2

317+81, 11' LT
NOTE 2

321+44, 9' RT
NOTE 2

3*4 / 1*8 LTP
NOTE 3

NOTES:

1. SEE SIGNAL PLANS FOR INTERSECTION LIGHTING.
2. EXISTING LIGHTING UNIT.
3. EXISTING CONDUIT AND WIRE.
4. NEW CONDUIT AND WIRE.
5. SPLICE ALL NEW WIRE WITH EXISTING CITY OF MILWAUKEE WIRE IN METAL PEDESTAL AT POLE.
6. LIGHTING DISTRIBUTION CENTER T-32NW IS LOCATED APPROXIMATELY 1800 FT NORTH OF STH 100 ON N 85TH ST (WEST SIDE OF ROAD).

SHEET 1 OF 4

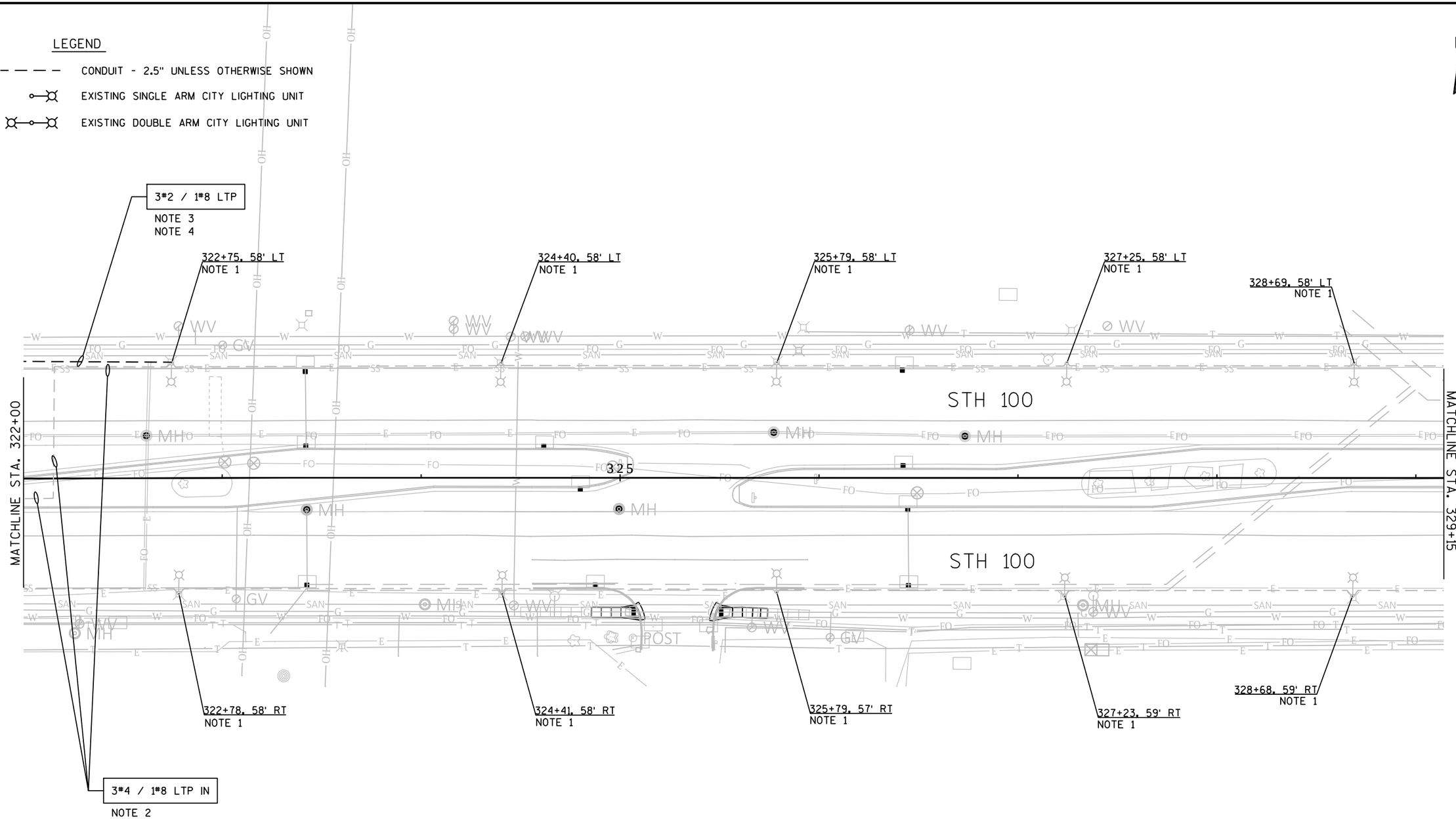
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	LIGHTING PLANS - PROPOSED	SHEET 209	E

FILE NAME : W:\PROJECTS\19254\2150-00-01\05_CADD\CADD DRAWINGS\023601_LP.DWG
LAYOUT NAME - 023601_lp

PLOT DATE : 7/30/2020 4:25 PM PLOT BY : WILLIAM NEAVE PLOT NAME : PLOT SCALE : 1 IN:50 FT

LEGEND

- CONDUIT - 2.5" UNLESS OTHERWISE SHOWN
- EXISTING SINGLE ARM CITY LIGHTING UNIT
- EXISTING DOUBLE ARM CITY LIGHTING UNIT



NOTES:

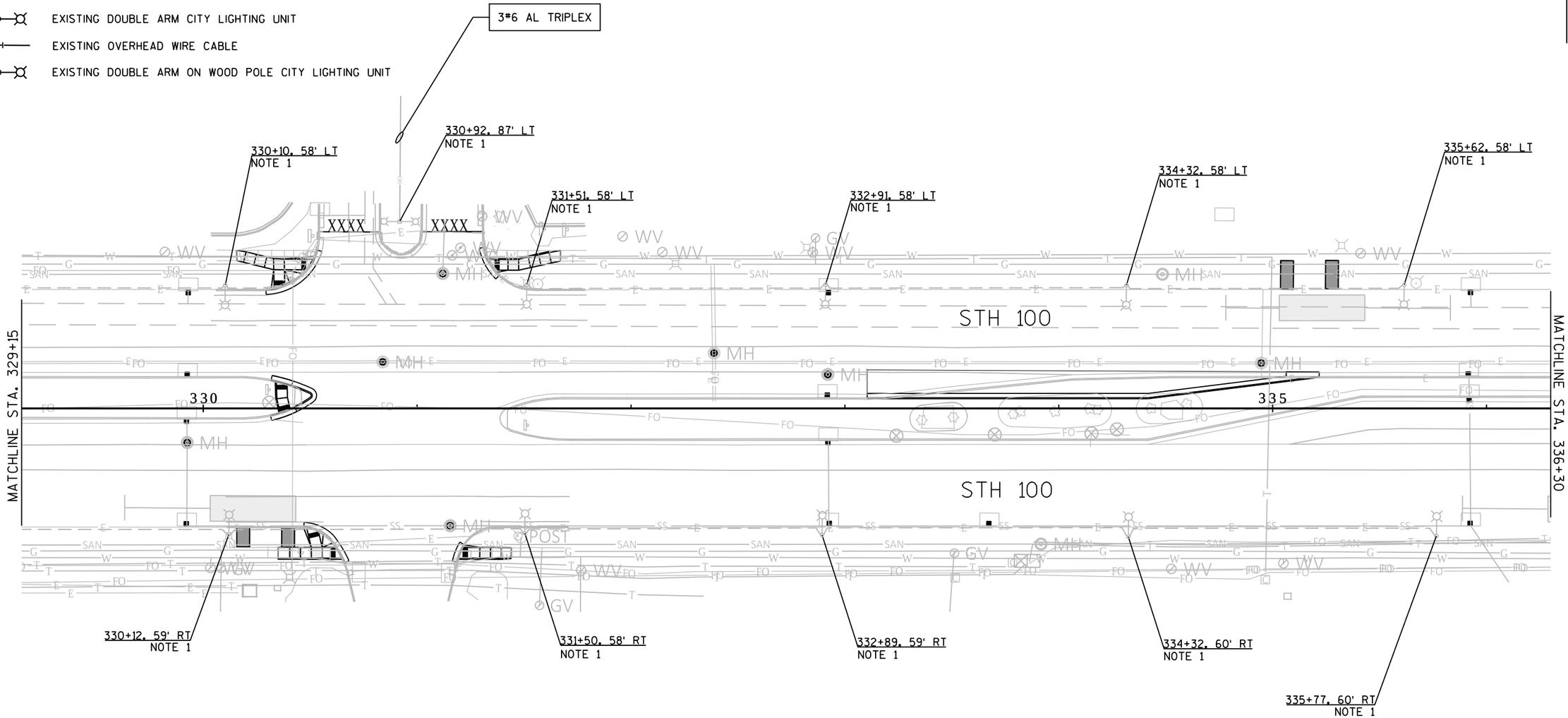
1. EXISTING LIGHTING UNIT.
2. EXISTING CONDUIT AND WIRE.
3. NEW CONDUIT AND WIRE.
4. SPLICE ALL NEW WIRE WITH EXISTING CITY OF MILWAUKEE WIRE IN METAL PEDESTAL AT POLE.

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	LIGHTING PLANS - PROPOSED	SHEET 210	E

FILE NAME : W:\PROJECTS\19254\2150-00-01\05_CADD\CADD DRAWINGS\023601_LP.DWG
LAYOUT NAME - 023602_lp
PLOT DATE : 7/30/2020 4:25 PM
PLOT BY : WILLIAM NEAVE
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 42

LEGEND

- CONDUIT - 2.5" UNLESS OTHERWISE SHOWN
- EXISTING SINGLE ARM CITY LIGHTING UNIT
- EXISTING DOUBLE ARM CITY LIGHTING UNIT
- OH — EXISTING OVERHEAD WIRE CABLE
- EXISTING DOUBLE ARM ON WOOD POLE CITY LIGHTING UNIT



NOTES:

1. EXISTING LIGHTING UNIT.

SHEET 3 OF 4

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	LIGHTING PLANS - PROPOSED	SHEET 211	E

FILE NAME : W:\PROJECTS\19254\2150-00-01\05_CADD\CADD DRAWINGS\023601_LP.DWG
LAYOUT NAME - 023603_lp

PLOT DATE : 7/30/2020 4:25 PM PLOT BY : WILLIAM NEAVE PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- CONDUIT - 2.5" UNLESS OTHERWISE SHOWN
- EXISTING SINGLE ARM CITY LIGHTING UNIT
- EXISTING DOUBLE ARM CITY LIGHTING UNIT
- EXISTING SINGLE ARM ON WOOD POLE CITY LIGHTING UNIT
- OH — EXISTING OVERHEAD WIRE CABLE

N

MATCHLINE STA. 336+30

SERVITE DR.

337+31, 212' LT
NOTE 2

338+11, 211' LT
NOTE 2
RELOCATED METAL
PEDESTAL AND RISER

3#2 / 1#4 LTP
NOTE 4
NOTE 5

339+85, 57' LT
NOTE 2

341+43, 58' LT
NOTE 2

342+66, 58' LT
NOTE 2

340

337+91, 82' RT
INTERCEPT EXISTING CONDUIT
AT POLE BASE

3#2 / 1#8 LTP IN
EXISTING CONDUIT
NOTE 5

339+88, 60' RT
NOTE 2

341+37, 59' RT
NOTE 2

342+65, 70' RT
NOTE 2

3#2 / 1#8 LTP IN
EXISTING CONDUIT

337+59, 222' RT
NOTE 2

3#4 / 1#8 LTP
NOTE 3

NOTES:

1. SEE SIGNAL PLANS FOR INTERSECTION LIGHTING.
2. EXISTING LIGHTING UNIT.
3. EXISTING CONDUIT AND WIRE.
4. NEW CONDUIT AND WIRE
5. SPLICE ALL NEW WIRE WITH EXISTING CITY OF MILWAUKEE WIRE IN METAL PEDESTAL AT POLE.
6. LIGHTING DISTRIBUTION CENTER T-37NW SEC IS LOCATED APPROXIMATELY 250 FT EAST OF N 76TH ST ON STH 100 (SOUTH SIDE OF ROAD).

SHEET 4 OF 4

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	LIGHTING PLANS - PROPOSED	SHEET 212	E

FILE NAME : W:\PROJECTS\19254\2150-00-01\05_CADD\CADD DRAWINGS\023601_LP.DWG
LAYOUT NAME - 023604_lp

PLOT DATE : 7/30/2020 4:25 PM PLOT BY : WILLIAM NEAVE PLOT NAME : PLOT SCALE : 1 IN:50 FT

CONSTRUCTION NOTES:

1. FINAL LOCATION OF SIGNAL POLES AND SIGNAL HEADS SHALL BE DIRECTED BY THE ENGINEER.
2. 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.
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) 266-1170, 5 WORKING DAYS PRIOR TO BEGINNING ANY WORK AT THE INTERSECTION.
6. ANY KNOCKDOWNS TO PERMANENT/TEMPORARY SIGNAL EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR.
7. ALL LUMINAIRES ARE 250 HPS OR LED C.

LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- WOOD POST
- TEMPORARY LUMINAIRE
- SIGNAL HEAD (WITH BACKPLATE), OVERHEAD MOUNT
- PEDESTRIAN PUSH BUTTON WITH PEDESTRIAN HEAD
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- DIRECTION OF TRAFFIC
- WORK ZONE

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

N

STH 100 (W BROWN DEER RD)

N 60TH ST

WP1 WP2 WP3 WP4 WP5 WP6 WP7 WP8 WP9 WP10 WP11 WP12 WP13 WP14

SUMMARY OF SELECTED ITEMS FOR INFORMATION ONLY	
QUANTITY	DESCRIPTION
4 EA	WOOD POLES, CLASS 4
750 LF	SPAN WIRE
10 EA	WOOD POST
18 EA	SIGNAL HEADS
8 EA	PEDESTRIAN HEADS
10 EA	PUSH BUTTONS
4 EA	LIGHTING LED-C OR 250W HPS
1	TEMPORARY SIGNAL CABINET
1	CONTROLLER AND CELL MODEM (STATE SUPPLIED)

* COVER AND DE-ENERGIZE PEDESTRIAN TRAFFIC SIGNAL FACE(S) IF PEDESTRIAN ACCESS IS NOT ALLOWED WITHIN THE WORK ZONE AND/OR SIDEWALK IS CLOSED.

TRAFFIC CONTROL SIGNAL
STH 100 (W BROWN DEER RD) & 60TH ST
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1125

REGION CONTACT: J. MURPHY
DESIGNED BY: S. WAGNER
REVISED BY:

PAGE 1 OF 15

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL PLAN - PRECONSTRUCTION STAGE	SHEET 213	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1125\S40-1125_TSPRECON_16.DWG
LAYOUT NAME - S40-1125_TSPRECON_PG1

PLOT DATE : 11/17/2020 2:18 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- WOOD POST
- TEMPORARY LUMINAIRE
- SIGNAL HEAD (WITH BACKPLATE), OVERHEAD MOUNT
- PEDESTRIAN PUSH BUTTON WITH PEDESTRIAN HEAD
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (FY)(Y) YELLOW ARROW
- (G) GREEN ARROW
- DIRECTION OF TRAFFIC
- WORK ZONE

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

N

WP1 WP2 WP3 WP4 WP5 WP6 WP7 WP8 WP9 WP10 WP11 WP12 WP13 WP14

STH 100 (W BROWN DEER RD)

N 60TH ST

R/W

* COVER AND DE-ENERGIZE PEDESTRIAN TRAFFIC SIGNAL FACE(S) IF PEDESTRIAN ACCESS IS NOT ALLOWED WITHIN THE WORK ZONE AND/OR SIDEWALK IS CLOSED.

TRAFFIC CONTROL SIGNAL
STH 100 (W BROWN DEER RD) & 60TH ST
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1125

REGION CONTACT: J. MURPHY
DESIGNED BY: S. WAGNER
REVISED BY:

PAGE 2 OF 15

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1AB INSIDE	SHEET 214	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1125\S40-1125_TSTAGE1ABIN_16.DWG
LAYOUT NAME - S40-1125_Tstage1AB_PG1

PLOT DATE : 11/17/2020 2:20 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- WOOD POST
- TEMPORARY LUMINAIRE
- SIGNAL HEAD (WITH BACKPLATE), OVERHEAD MOUNT
- PEDESTRIAN PUSH BUTTON WITH PEDESTRIAN HEAD
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- DIRECTION OF TRAFFIC
- WORK ZONE

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

N

WP1 WP2 WP3 WP4 WP5 WP6 WP7 WP8 WP9 WP10 WP11 WP12 WP13 WP14

STH 100 (W BROWN DEER RD)

N 60TH ST

R/W

ONLY

* COVER AND DE-ENERGIZE PEDESTRIAN TRAFFIC SIGNAL FACE(S) IF PEDESTRIAN ACCESS IS NOT ALLOWED WITHIN THE WORK ZONE AND/OR SIDEWALK IS CLOSED.

TRAFFIC CONTROL SIGNAL
STH 100 (W BROWN DEER RD) & 60TH ST
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1125

REGION CONTACT: J. MURPHY
DESIGNED BY: S. WAGNER
REVISED BY:

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1 AB OUTSIDE	SHEET 215	E

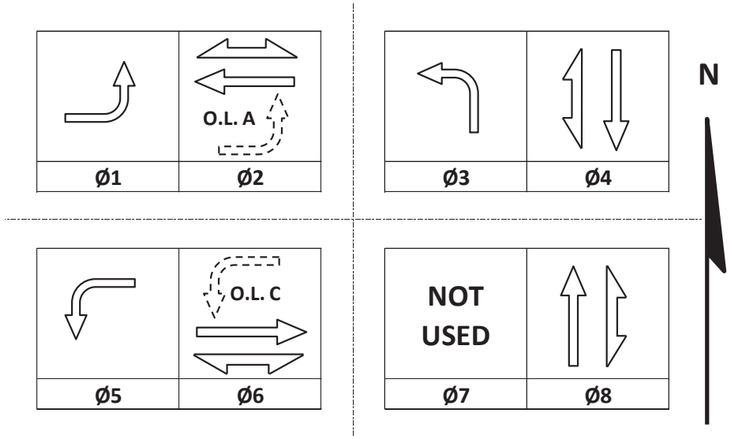
FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1125\S40-1125_TSTAGE1ABOUT_16.DWG
LAYOUT NAME - S40-1125_Tstage1ABOUT_PG1

PLOT DATE : 11/17/2020 2:21 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

	HEAD NUMBERS	FLASH
Ø1	5,6	-
Ø2	7,8,9,10,11,12	R
Ø3	14,15	-
Ø4	16,17,18	R
Ø5	11,12	-
Ø6	1,2,3,4,5,6	R
Ø7		
Ø8	13,14,15	R
Ø2P	21,22	
Ø4P	19,20	
Ø6P	25,26	
Ø8P	23,24	
OLA	5,6	R ←
OLB		
OLC	11,12	R ←
OLD		

RING 1

RING 2



DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL	DETECTOR OPERATION			PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
		CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY							

CONTROLLER LOGIC

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

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

TYPE OF COORDINATION	
NONE	
TBC	X
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 100 & 60TH STREET

VILLAGE OF BROWN DEER

MILWAUKEE COUNTY

SIGNAL NO: S40-1125 CABINET TYPE: TEMP

CONTROLLER TYPE:

DATE: 11/2020 PAGE NUMBER: 4 OF 4

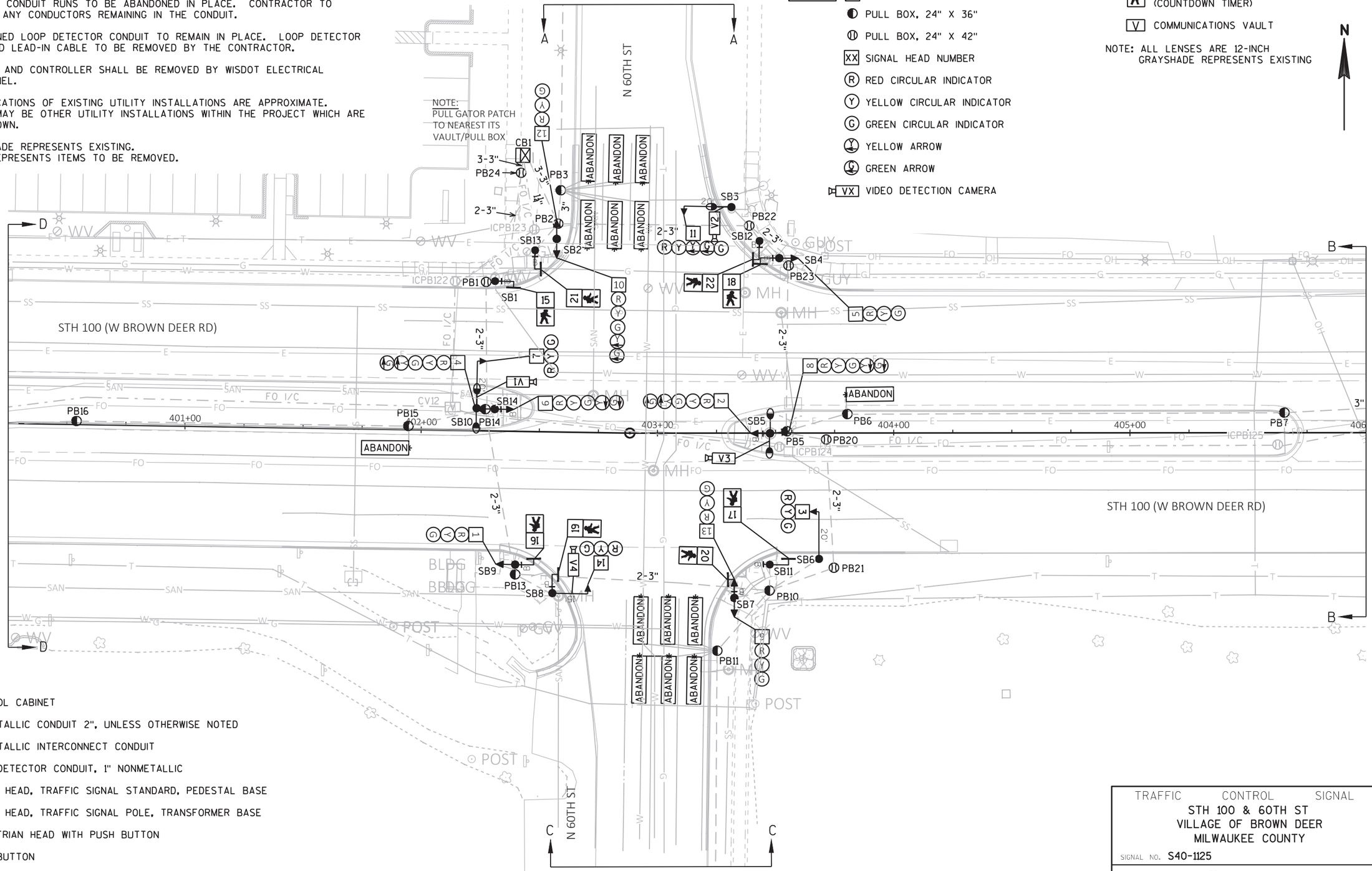
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	SEQUENCE OF OPERATIONS	SHEET NO:	E

CONSTRUCTION NOTES:
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. CABINET AND CONTROLLER SHALL BE REMOVED BY WISDOT ELECTRICAL PERSONNEL.
4. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
5. GRAYSHADE REPRESENTS EXISTING. BOLD REPRESENTS ITEMS TO BE REMOVED.

- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- 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
- YELLOW ARROW
- GREEN ARROW
- VX VIDEO DETECTION CAMERA
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- V COMMUNICATIONS VAULT

NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING

N



LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE

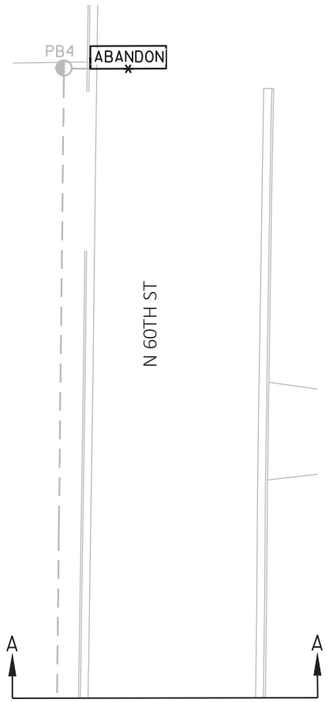
TRAFFIC CONTROL SIGNAL
STH 100 & 60TH ST
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

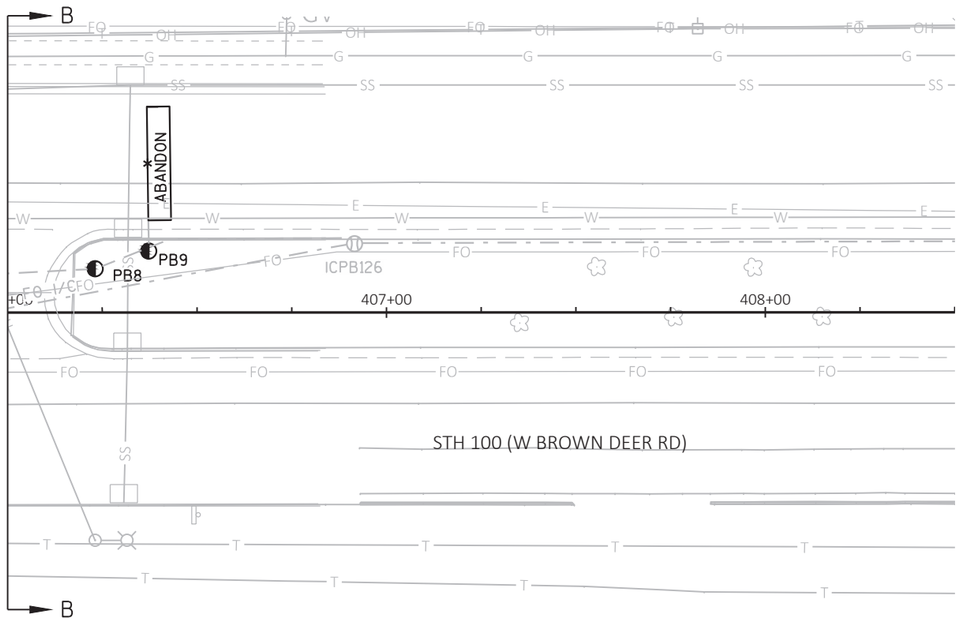
SIGNAL NO. S40-1125

REGION CONTACT: J. MURPHY
DESIGNED BY: S. WAGNER
REVISED BY:

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 217	E

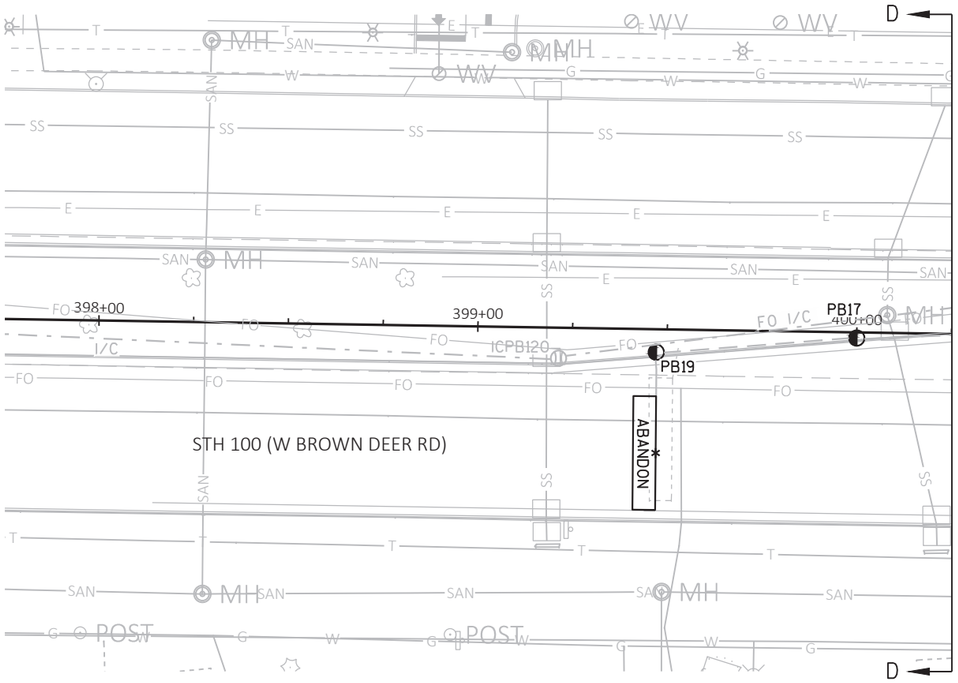
FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1125\S40-1125_RM_16.DWG
LAYOUT NAME - S40-1125_RM_PG1
PLOT DATE : 9/17/2020 10:19 AM
PLOT BY : WAGNER, SCOTT H
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

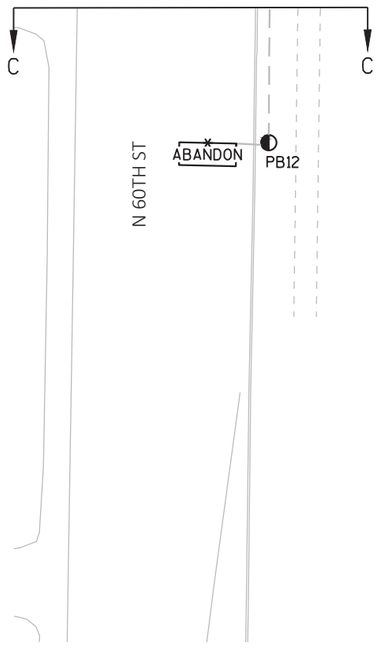




N

2





TRAFFIC CONTROL SIGNAL

STH 100 & 60TH ST
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1125

REGION CONTACT: J. MURPHY
DESIGNED BY: S. WAGNER
REVISED BY:

PAGE 2 OF 2

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 218	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1125\S40-1125_RM_16.DWG
LAYOUT NAME - S40-1125_RM_PG2

PLOT DATE : 9/17/2020 10:20 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : ##########

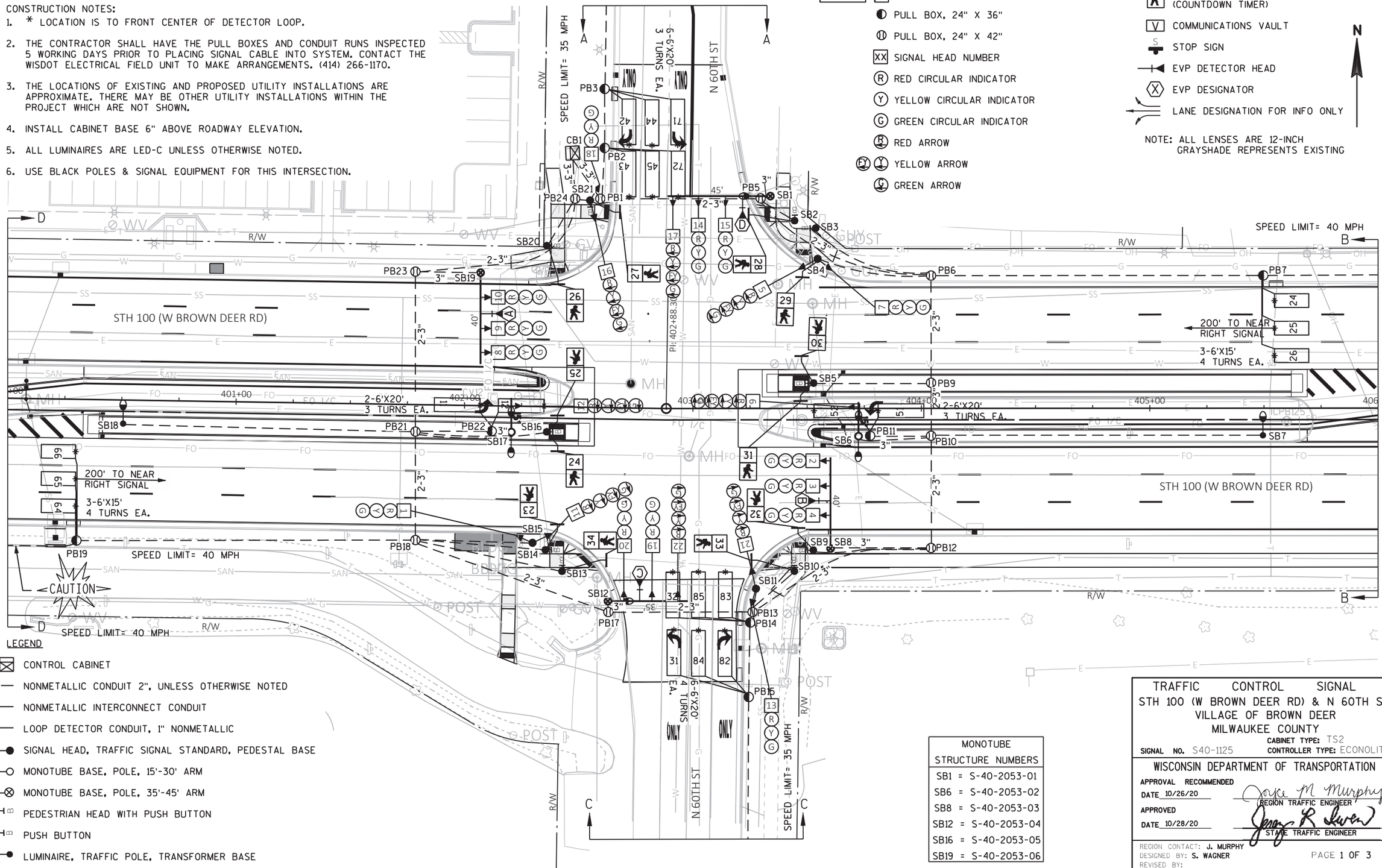
CONSTRUCTION NOTES:

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 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 LUMINAIRES ARE LED-C UNLESS OTHERWISE NOTED.
6. USE BLACK POLES & SIGNAL EQUIPMENT FOR THIS INTERSECTION.

- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- 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
- R RED ARROW
- FY YELLOW ARROW
- G GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- V COMMUNICATIONS VAULT
- S STOP SIGN
- EVP DETECTOR HEAD
- X EVP DESIGNATOR
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

N



LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-45' ARM
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE

MONOTUBE STRUCTURE NUMBERS	
SB1	S-40-2053-01
SB6	S-40-2053-02
SB8	S-40-2053-03
SB12	S-40-2053-04
SB16	S-40-2053-05
SB19	S-40-2053-06

TRAFFIC CONTROL SIGNAL
STH 100 (W BROWN DEER RD) & N 60TH ST
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY
SIGNAL NO. S40-1125
CABINET TYPE: TS2
CONTROLLER TYPE: ECONOLITE

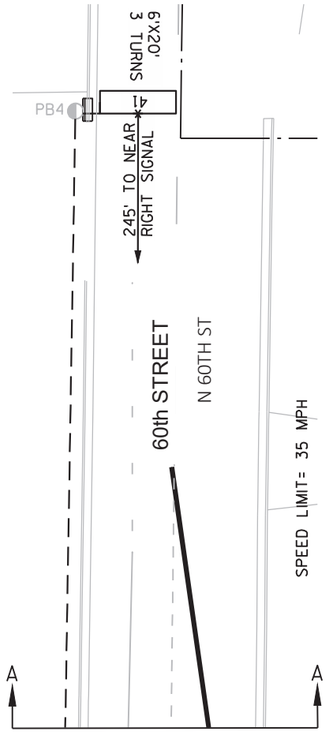
WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVAL RECOMMENDED
DATE 10/26/20
REGION TRAFFIC ENGINEER
APPROVED
DATE 10/28/20
STATE TRAFFIC ENGINEER

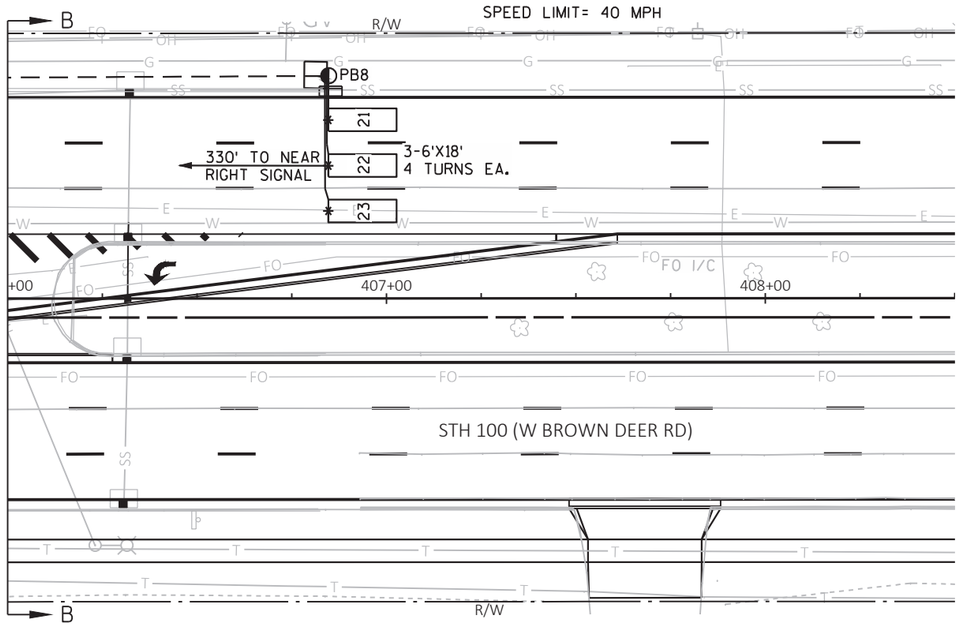
REGION CONTACT: J. MURPHY
DESIGNED BY: S. WAGNER
REVISED BY:

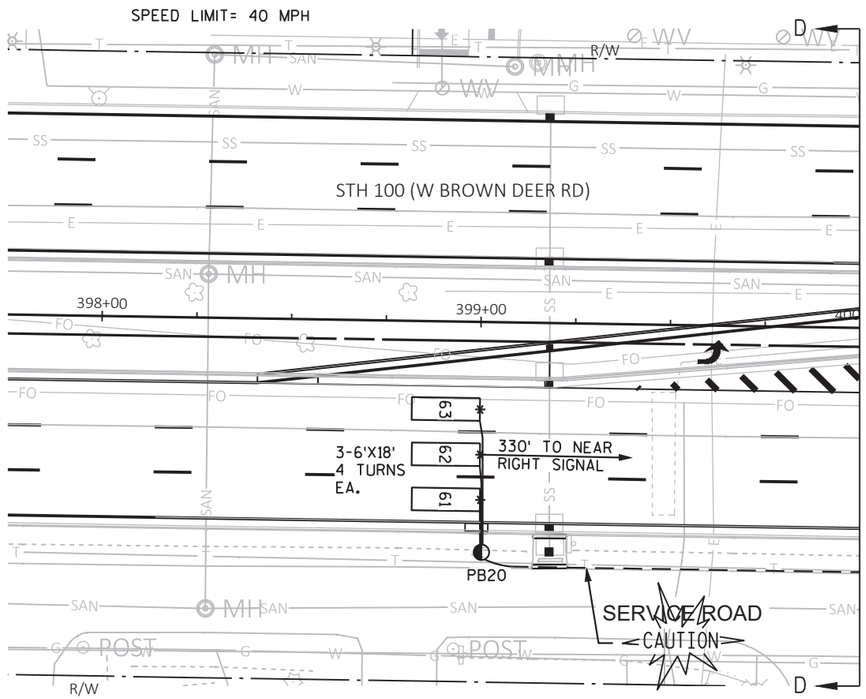
PAGE 1 OF 3

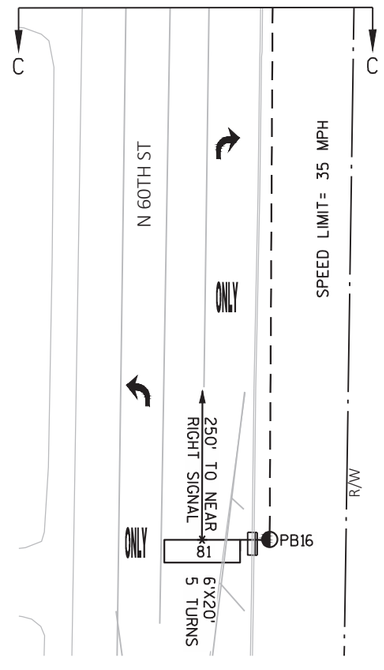
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 219	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1125\S40-1125_16.DWG
LAYOUT NAME - S40-1125_PG1
PLOT DATE : 11/18/2020 9:21 AM
PLOT BY : WAGNER, SCOTT H
PLOT NAME :
PLOT SCALE : 1 IN:40 FT









TRAFFIC CONTROL SIGNAL
STH 100 (W BROWN DEER RD) & N 60TH ST
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1125

REGION CONTACT: J. MURPHY
DESIGNED BY: S. WAGNER
REVISED BY:

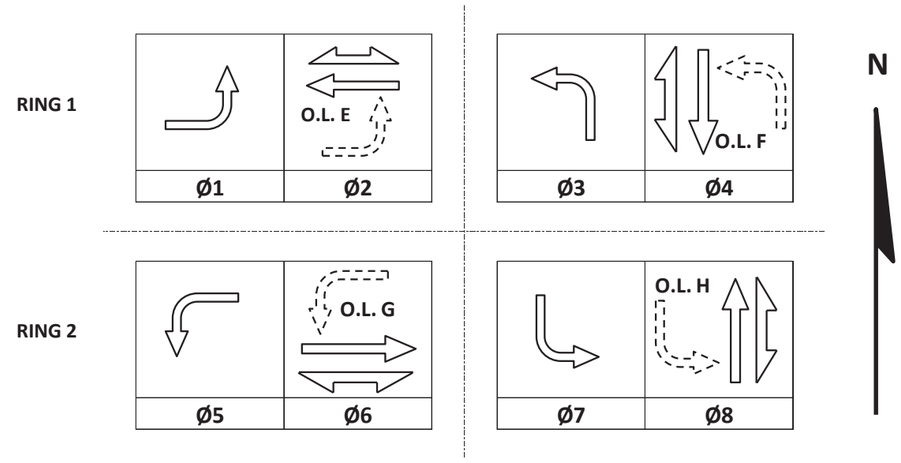
PAGE 2 OF 3

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 220	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1125\S40-1125_16.DWG
LAYOUT NAME - S40-1125_PG2

PLOT DATE : 11/18/2020 9:22 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : ##########

	HEAD NUMBERS	FLASH
Ø1	5,6	R ←
Ø2	7,8,9,10	R
Ø3	16,17	R ←
Ø4	18,19,20	R
Ø5	11,12	R ←
Ø6	1,2,3,4	R
Ø7	21,22	R ←
Ø8	13,14,15	R
Ø2P	27,28	
Ø4P	23,24,25,26	
Ø6P	33,34	
Ø8P	29,30,31,32	
OLE	5,6	-
OLF	16,17	-
OLG	11,12	-
OLH	21,22	-



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

EMERGENCY VEHICLE PREEMPTION SEQUENCE

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

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

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

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

TYPE OF COORDINATION		
NONE		
TBC		
TRAFFIC RESPONSIVE		X
ADAPTIVE		
*LOCATION OF MASTER CONTROLLER NO:	S-	
SIGNAL SYSTEM NO:	SS-	0015

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	X
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	11	21	23	25	31	41	43	45
CALLED PHASE	1	2	2	2	3	4	4	4
CALL OPTION	X	X	X	X	X		X	X
DELAY TIME					X		X	
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME						X		
USE ADDED INITIAL		X	X	X				
CROSS SWITCH PHASE	2				4			

DETECTOR INPUT	19	17	23	21	27	25	31	29	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	52	62	64	66	72	82	84		PLAN LOOP DETECTOR*(S)
CALLED PHASE	5	6	6	6	7	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		EXTENTION OPTION
EXTEND TIME									EXTEND TIME
USE ADDED INITIAL		X	X	X					USE ADDED INITIAL
CROSS SWITCH PHASE	6				8				CROSS SWITCH PHASE

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	12	22	24	26	32	42	44	51
CALLED PHASE	1	2	2	2	3	4	4	5
CALL OPTION	X	X	X	X	X	X	X	X
DELAY TIME					X	X		
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME								
USE ADDED INITIAL		X	X	X				
CROSS SWITCH PHASE	2				4			6

DETECTOR INPUT	20	18	24	22	28	26	32	30	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	61	63	65	71	81	83	85		PLAN LOOP DETECTOR*(S)
CALLED PHASE	6	6	6	7	8	8	8		CALLED PHASE
CALL OPTION	X	X	X	X		X	X		CALL OPTION
DELAY TIME				X		X			DELAY TIME
EXTENTION OPTION	X	X	X	X	X	X	X		EXTENTION OPTION
EXTEND TIME					X				EXTEND TIME
USE ADDED INITIAL	X	X	X						USE ADDED INITIAL
CROSS SWITCH PHASE				8					CROSS SWITCH PHASE

GENERAL NOTES:

1.

2.

3.

4.

STH 100 (W BROWN DEER RD) & 60TH ST
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO: S40-1125 CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE
DATE: 11/2020 PAGE NUMBER: 3 OF 3

FILE NAME: \\WKERTOVFILP01\n3public\SPO\Operations\Signals\Resources\Design\Sequence of Ops Templates\TS2-S_E_FYA_EFGH_Econolite_SEQ.xlsx PLOT DATE: ######## PLOT NAME: TS2-S_E_FYA_EFGH_Ecor PLOT BY: _____ PLOT SCALE: 1:1

PROJECT ID:	2150-00-71
INTERSECTION:	STH 100 & 60TH ST

Signal Wire Color Coding	BLK - black	RED - red	GRN - green
	WHT - white	BLU - blue	ORG - orange

CB1 TO	AWG14 # OF CONDUCTORS	HEAD NO.	SIGNAL INDICATION WIRE COLOR									PED NEUTRAL	PED INPUT
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	<FLASHING YELLOW>	D/WALK	WALK		
SB1	12	14	RED	ORG	GRN								
		15	RED	ORG	GRN								
		17				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
SB2	7	28								BLK	BLU		
		B										RED	WHT/BLK
SB3	7	B										RED	WHT/BLK
SB4	12	5				RED	ORG	GRN	BLK/WHT				
		7	RED/BLK	ORG/BLK	GRN/BLK								
		29								BLK	BLU		
		B										RED	WHT/BLK
SB5	7	30								BLK	BLU		
		31								BLK	BLU		
		B										RED	WHT/BLK
SB6	12	6				RED	ORG	GRN	BLK/WHT				
SB8	12	2	RED	ORG	GRN								
		3	RED	ORG	GRN								
		4	RED	ORG	GRN								
SB9	7	32								BLK	BLU		
		B										RED	WHT/BLK
SB10	7	33								BLK	BLU		
		B										RED	WHT/BLK

2

SB11	12	13	RED	ORG	GRN								
		21				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
SB12	12	19	RED	ORG	GRN								
		20	RED	ORG	GRN								
		22				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
SB13	7	34								BLK	BLU		
		B										RED	WHT/BLK
SB14	7	23								BLK	BLU		
		B										RED	WHT/BLK
SB15	12	1	RED	ORG	GRN								
		11				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
SB16	7	24								BLK	BLU		
		25								BLK	BLU		
		B										RED	WHT/BLK
SB17	12	12				RED	ORG	GRN	BLK/WHT				
SB19	12	8	RED	ORG	GRN								
		9	RED	ORG	GRN								
		10	RED	ORG	GRN								
SB20	7	26								BLK	BLU		
		B										RED	WHT/BLK
SB21	15	16				RED	ORG	GRN	BLK/WHT				
		18	RED/BLK	ORG/BLK	GRN/BLK								
		27								BLK	BLU		
		B										RED/WHT	WHT/BLK

2

Equipment grounding conductor 10 AWG Green XLP	
From	TO
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	SB11
SB11	SB12
SB12	SB13
SB13	SB14
SB14	SB15
SB15	SB16
SB16	SB17
SB17	SB18
SB18	SB19
SB19	SB20
SB20	SB21
SB21	CB1

Pull Box Bonding Jumper 10 AWG Green XLP	
From	To
PB1	CB1
PB5	SB1
PB6	SB4
PB9	SB5
PB10	SB6
PB12	SB8
PB13	SB11
PB17	SB12
PB18	SB15
PB21	SB17
PB23	SB19
PB24	SB21

Lighting UF #12 w/ground	
From	To
CB1	SB1
SB1	SB6
SB6	SB7
CB1	SB17
SB17	SB18
SB17	SB12

EVP CABLE	
From	To
CB1	SB19 (HEAD A)
CB1	SB9 (HEAD B)
CB1	SB12 (HEAD C)
CB1	SB1 (HEAD D)

***Use the white conductor in the cable assembly as the grounded conductor for all traffic signal indications**
***Ensure the grounded conductor in the feeder cable and the pole cables are both 18" longer than the ungrounded conductors.**
***At the signal bases, connect one terminal from the pedestrian push buttons to the color indicated in the chart. Connect the other terminal to the grounded conduct**
***Reconnect the grounding conductors wherever the circuit has been interrupted to ensure the grounding circuit is complete.**
***Reserve the Blue/Black conductor in the cable assembly as the APS conductor for all push buttons**

CONSTRUCTION NOTES:

1. FINAL LOCATION OF SIGNAL POLES AND SIGNAL HEADS SHALL BE DIRECTED BY THE ENGINEER.
2. 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.
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) 266-1170, 5 WORKING DAYS PRIOR TO BEGINNING ANY WORK AT THE INTERSECTION.
6. ANY KNOCKDOWNS TO PERMANENT/TEMPORARY SIGNAL EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR.
7. ALL LUMINAIRES ARE 250 HPS OR LED C.

LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- WOOD POST
- TEMPORARY LUMINAIRE
- SIGNAL HEAD (WITH BACKPLATE), OVERHEAD MOUNT
- PEDESTRIAN PUSH BUTTON WITH PEDESTRIAN HEAD
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (FY)(Y) YELLOW ARROW
- (G) GREEN ARROW
- DIRECTION OF TRAFFIC
- WORK ZONE

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

N

STH 100 (W BROWN DEER RD)

N 51ST ST

ONLY

R/W

WP1 WP2 WP3 WP4 WP5 WP6 WP7 WP8 WP9 WP10 WP11 WP12 WP13 WP14 WP15 WP16

PI: 429+61.30

427+00 428+00 431+00 432+00

SUMMARY OF SELECTED ITEMS FOR INFORMATION ONLY	
QUANTITY	DESCRIPTION
7 EA	WOOD POLES, CLASS 4
640 LF	SPAN WIRE
9 EA	WOOD POST
22 EA	SIGNAL HEADS
12 EA	PEDESTRIAN HEADS
10 EA	PUSH BUTTONS
4 EA	LIGHTING LED-C OR 250W HPS
1	TEMPORARY SIGNAL CABINET
1	CONTROLLER AND CELL MODEM (STATE SUPPLIED)

* COVER AND DE-ENERGIZE PEDESTRIAN TRAFFIC SIGNAL FACE(S) IF PEDESTRIAN ACCESS IS NOT ALLOWED WITHIN THE WORK ZONE AND/OR SIDEWALK IS CLOSED.

TRAFFIC CONTROL SIGNAL

STH 100 (W BROWN DEER RD) & 51ST ST
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1129

REGION CONTACT: J. MURPHY
DESIGNED BY: S. WAGNER
REVISED BY:

PAGE 1 OF 1

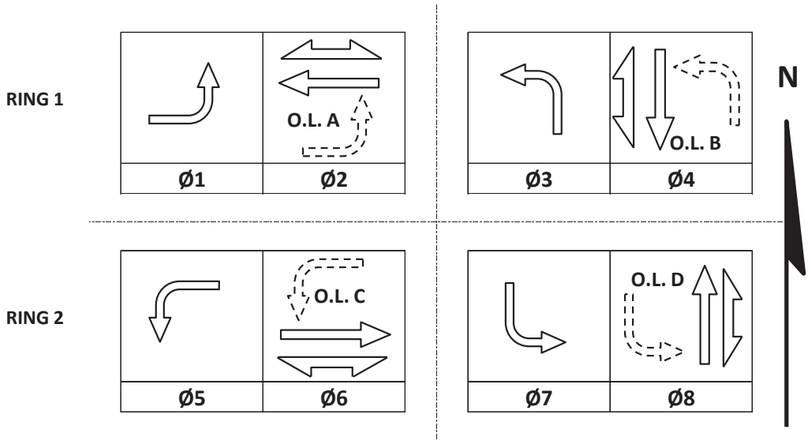
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL PLAN	SHEET 225	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1129\S40-1129_TSPRECON_16.DWG
LAYOUT NAME - S40-1129_TSPRECON_PG1

PLOT DATE : 11/17/2020 3:33 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	5,6	-
Ø2	7,8,9,10	R
Ø3	16,17	-
Ø4	18,19,20	R
Ø5	11,12	-
Ø6	1,2,3,4	R
Ø7	21,22	-
Ø8	13,14,15	R
Ø2P	27,28	
Ø4P	23,24,25,26	
Ø6P	33,34	
Ø8P	29,30,31,32	
OLA	5,6	R ←
OLB	16,17	R ←
OLC	11,12	R ←
OLD	21,22	R ←



DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL	DETECTOR OPERATION			PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
		CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY							

CONTROLLER LOGIC

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

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

TYPE OF COORDINATION	
NONE	
TBC	X
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 100 (W BROWN DEER RD) & 51ST ST

VILLAGE OF BROWN DEER

MILWAUKEE COUNTY

SIGNAL NO:	S40-1129	CABINET TYPE: TS1
		CONTROLLER TYPE:
DATE:	11/2020	PAGE NUMBER: 2 OF 2

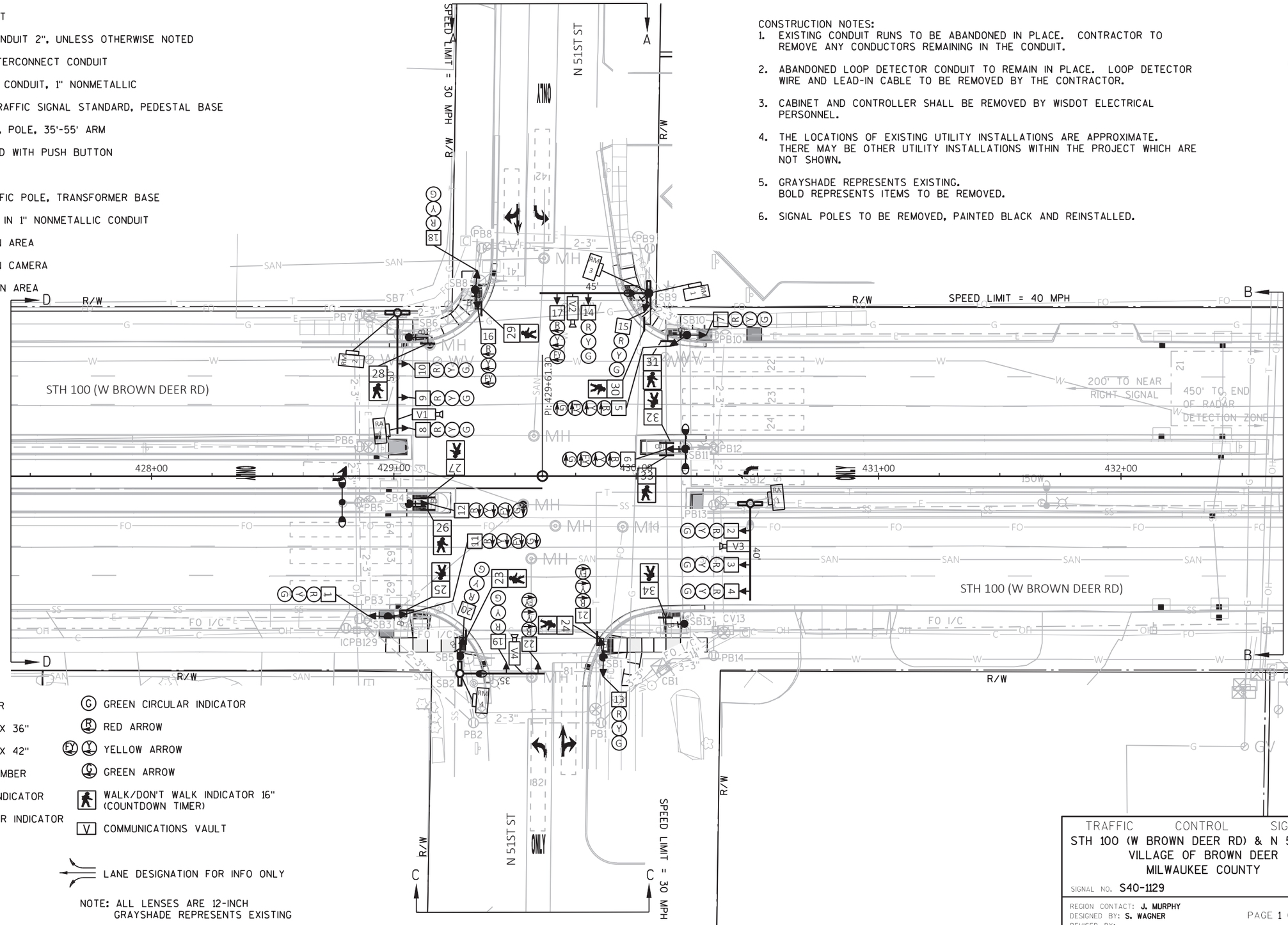
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	SEQUENCE OF OPERATIONS	SHEET NO:	E

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- VIDEO DETECTION AREA
- VX VIDEO DETECTION CAMERA
- RADAR DETECTION AREA

CONSTRUCTION NOTES:

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. CABINET AND CONTROLLER SHALL BE REMOVED BY WISDOT ELECTRICAL PERSONNEL.
4. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
5. GRAYSHADE REPRESENTS EXISTING. BOLD REPRESENTS ITEMS TO BE REMOVED.
6. SIGNAL POLES TO BE REMOVED, PAINTED BLACK AND REINSTALLED.



- RADAR DETECTOR
- 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
- (R) RED ARROW
- (FY) (Y) YELLOW ARROW
- (G) GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- V COMMUNICATIONS VAULT

LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

TRAFFIC CONTROL SIGNAL
STH 100 (W BROWN DEER RD) & N 51ST ST
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1129

REGION CONTACT: J. MURPHY
DESIGNED BY: S. WAGNER
REVISED BY:

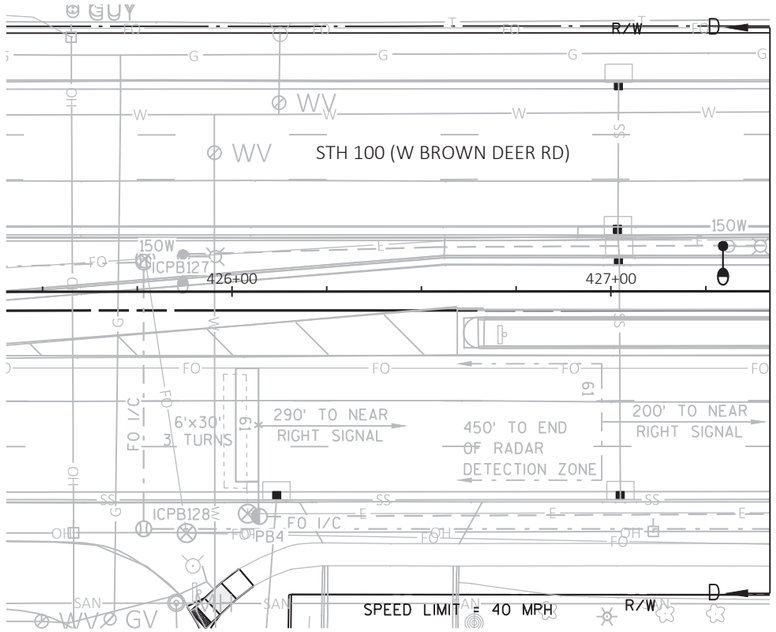
PAGE 1 OF 3

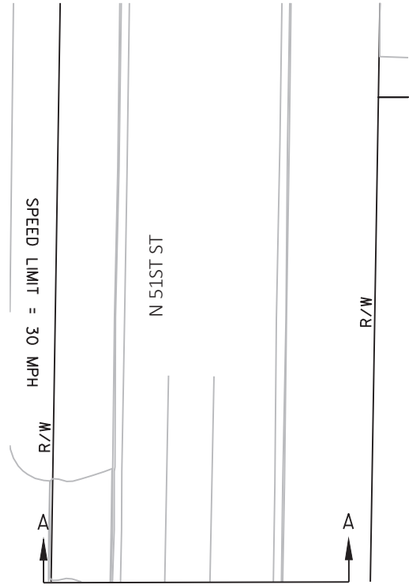
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 227	E

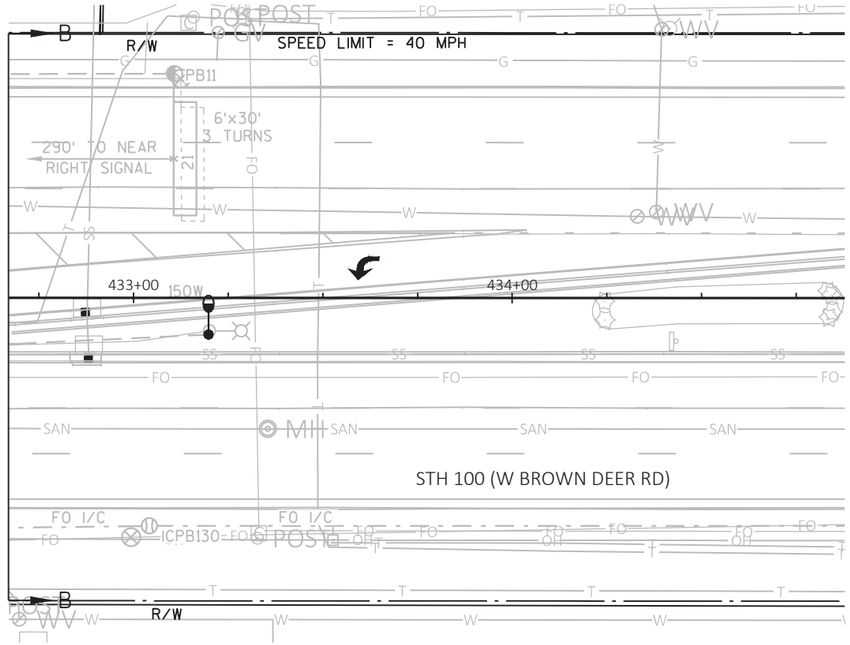
FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1129\S40-1129_RM_16.DWG
LAYOUT NAME - S40-1129_RM_PG1

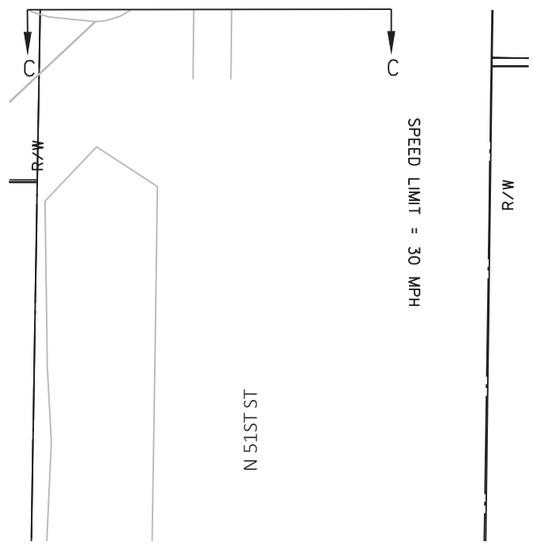
PLOT DATE : 11/17/2020 4:23 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42









TRAFFIC CONTROL SIGNAL

STH 100 (W BROWN DEER RD) & N 51ST ST
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1129

REGION CONTACT: J. MURPHY
DESIGNED BY: S. WAGNER
REVISED BY:

PAGE 2 OF 3

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 228	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1129\S40-1129_RM_16.DWG
LAYOUT NAME - S40-1129_RM_PG2

PLOT DATE : 11/17/2020 4:25 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

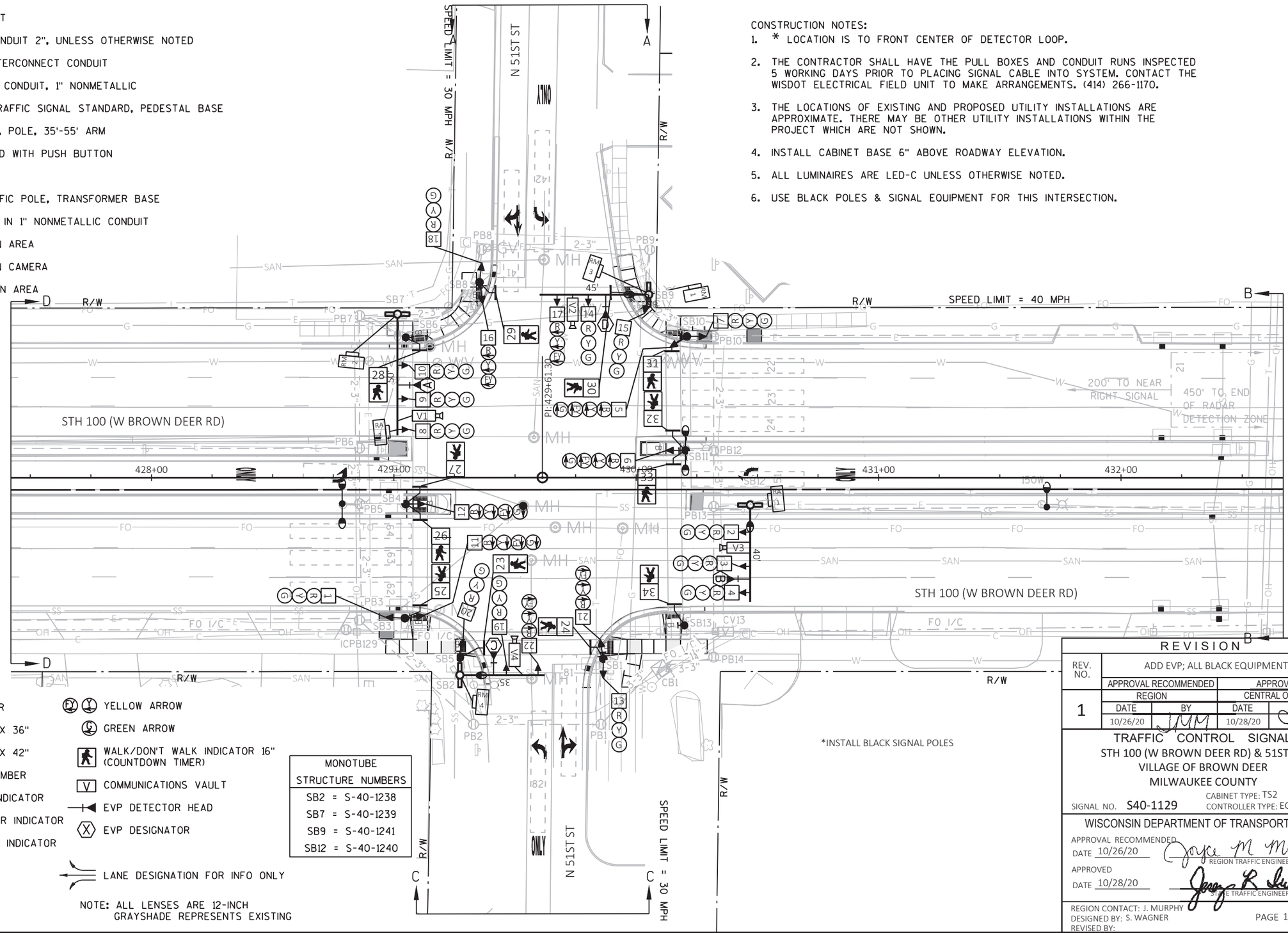
2

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- VIDEO DETECTION AREA
- VX VIDEO DETECTION CAMERA
- RADAR DETECTION AREA

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 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 LUMINAIRES ARE LED-C UNLESS OTHERWISE NOTED.
6. USE BLACK POLES & SIGNAL EQUIPMENT FOR THIS INTERSECTION.



- RADAR DETECTOR
- 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
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- V COMMUNICATIONS VAULT
- EVP DETECTOR HEAD
- X EVP DESIGNATOR
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

MONOTUBE STRUCTURE NUMBERS
SB2 = S-40-1238
SB7 = S-40-1239
SB9 = S-40-1241
SB12 = S-40-1240

REVISION

REV. NO.				
	ADD EVP; ALL BLACK EQUIPMENT			
	APPROVAL RECOMMENDED		APPROVED	
1	REGION		CENTRAL OFFICE	
	DATE	BY	DATE	BY
	10/26/20	JMM	10/28/20	JB

TRAFFIC CONTROL SIGNAL
STH 100 (W BROWN DEER RD) & 51ST ST
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1129
CABINET TYPE: TS2
CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
DATE 10/26/20 — Joyce M Murphy, REGION TRAFFIC ENGINEER

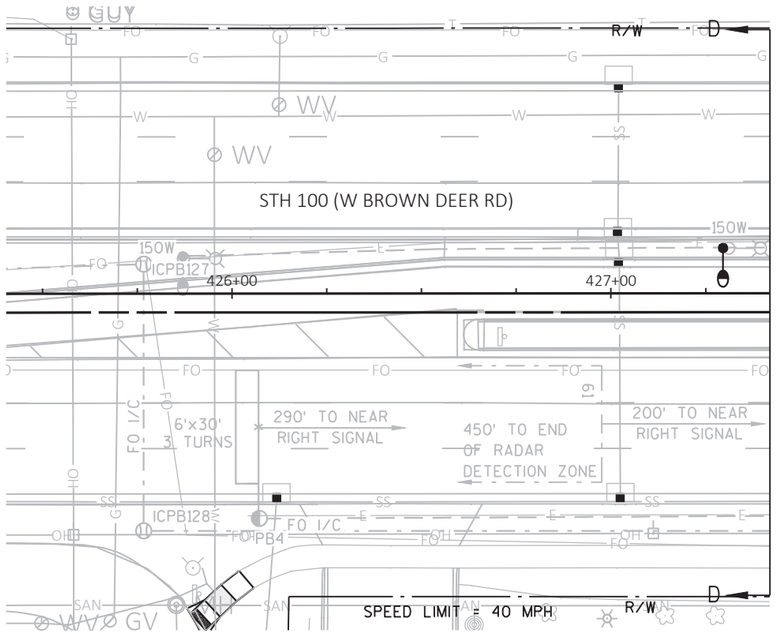
APPROVED
DATE 10/28/20 — Jason R Sveum, STATE TRAFFIC ENGINEER

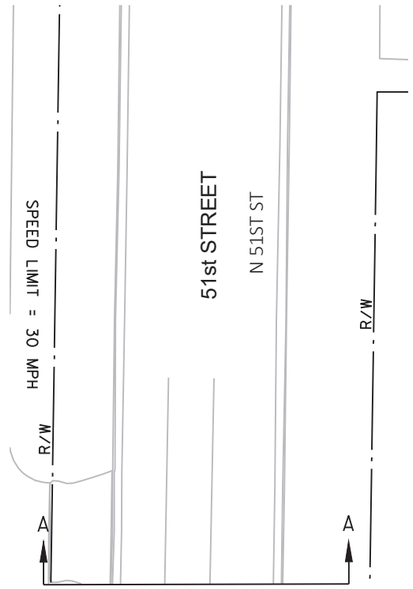
REGION CONTACT: J. MURPHY
DESIGNED BY: S. WAGNER
REVISED BY:

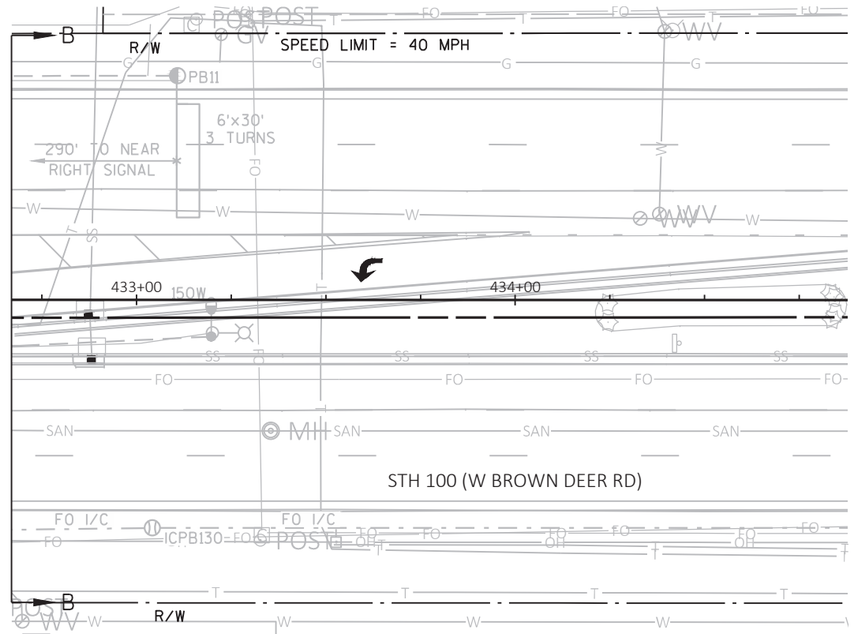
PAGE 1 OF 3

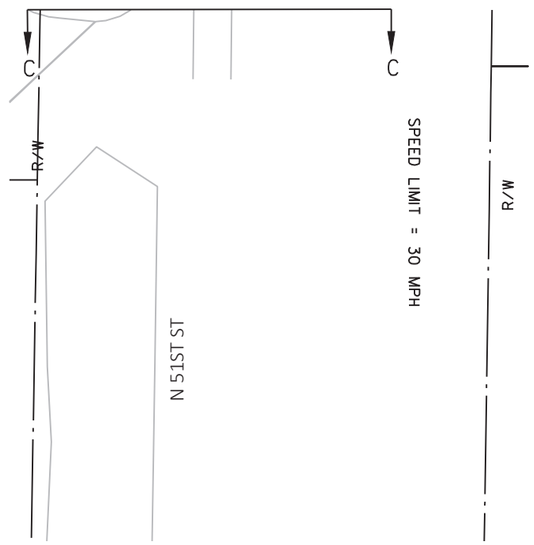
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 229	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1129\S40-1129_16.DWG
LAYOUT NAME - S40-1129_R1_PG1
PLOT DATE : 11/18/2020 9:28 AM
PLOT BY : WAGNER, SCOTT H
PLOT NAME :
PLOT SCALE : 1 IN:40 FT









TRAFFIC CONTROL SIGNAL

STH 100 (W BROWN DEER RD) & N 51ST ST
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1129

REGION CONTACT: J. MURPHY
DESIGNED BY: S. WAGNER
REVISED BY:

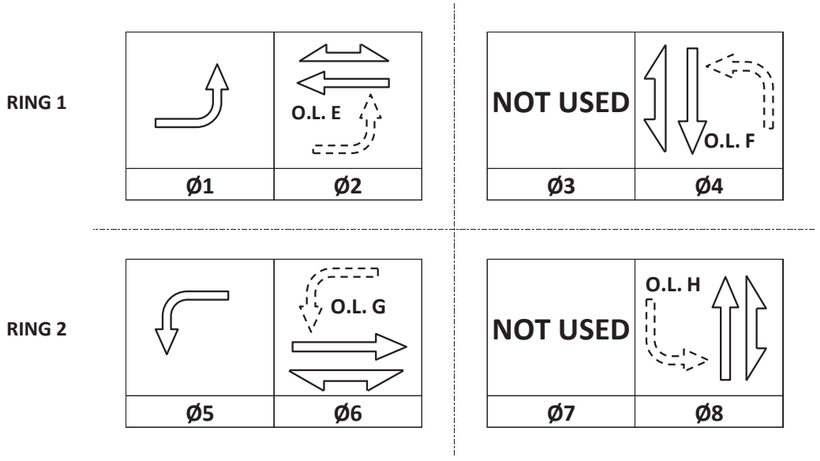
PAGE 2 OF 3

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 230	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1129\S40-1129_16.DWG
LAYOUT NAME - S40-1129__R1_PG2

PLOT DATE : 11/18/2020 9:29 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : ##########

	HEAD NUMBERS	FLASH
Ø1	5,6	R ←
Ø2	7,8,9,10	R
Ø3		
Ø4	18,19,20	R
Ø5	11,12	R ←
Ø6	1,2,3,4	R
Ø7		
Ø8	13,14,15	R
Ø2P	29,30	
Ø4P	25,26,27,28	
Ø6P	23,24	
Ø8P	31,32,33,34	
OLE	5,6	-
OLF	16,17	-
OLG	11,12	-
OLH	21,22	-



CONTROLLER LOGIC

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

EMERGENCY VEHICLE PREEMPTION SEQUENCE

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

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

AFTER PREEMPTION SEQUENCE 4+8 OR 8+4, CONTROLLER SHALL RETURN TO PHASES 4+8.

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

TYPE OF COORDINATION	
NONE	
TBC	
TRAFFIC RESPONSIVE	X
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	X
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	11	23	41	51	63	81		
CALLED PHASE	1	2	4	5	6	8		
CALL OPTION	X	X	X	X	X	X		
DELAY TIME			X			X		
EXTENTION OPTION	X	X	X	X	X	X		
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE	2							

19	17	23	21	27	25	31	29	DETECTOR INPUT
21								PLAN LOOP DETECTOR*(S)
2								CALLED PHASE
								CALL OPTION
								DELAY TIME
X								EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	22	24	42	62	64	82		
CALLED PHASE	2	2	4	6	6	8		
CALL OPTION	X	X	X	X	X	X		
DELAY TIME	X		X	X		X		
EXTENTION OPTION	X	X	X	X	X	X		
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

20	18	24	22	28	26	32	30	DETECTOR INPUT
61								PLAN LOOP DETECTOR*(S)
6								CALLED PHASE
								CALL OPTION
								DELAY TIME
X								EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE

STH 100 & 51ST ST
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO: S40-1129 CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE
DATE: 11/1/2020 PAGE NUMBER: 3 OF 3

CONSTRUCTION NOTES:

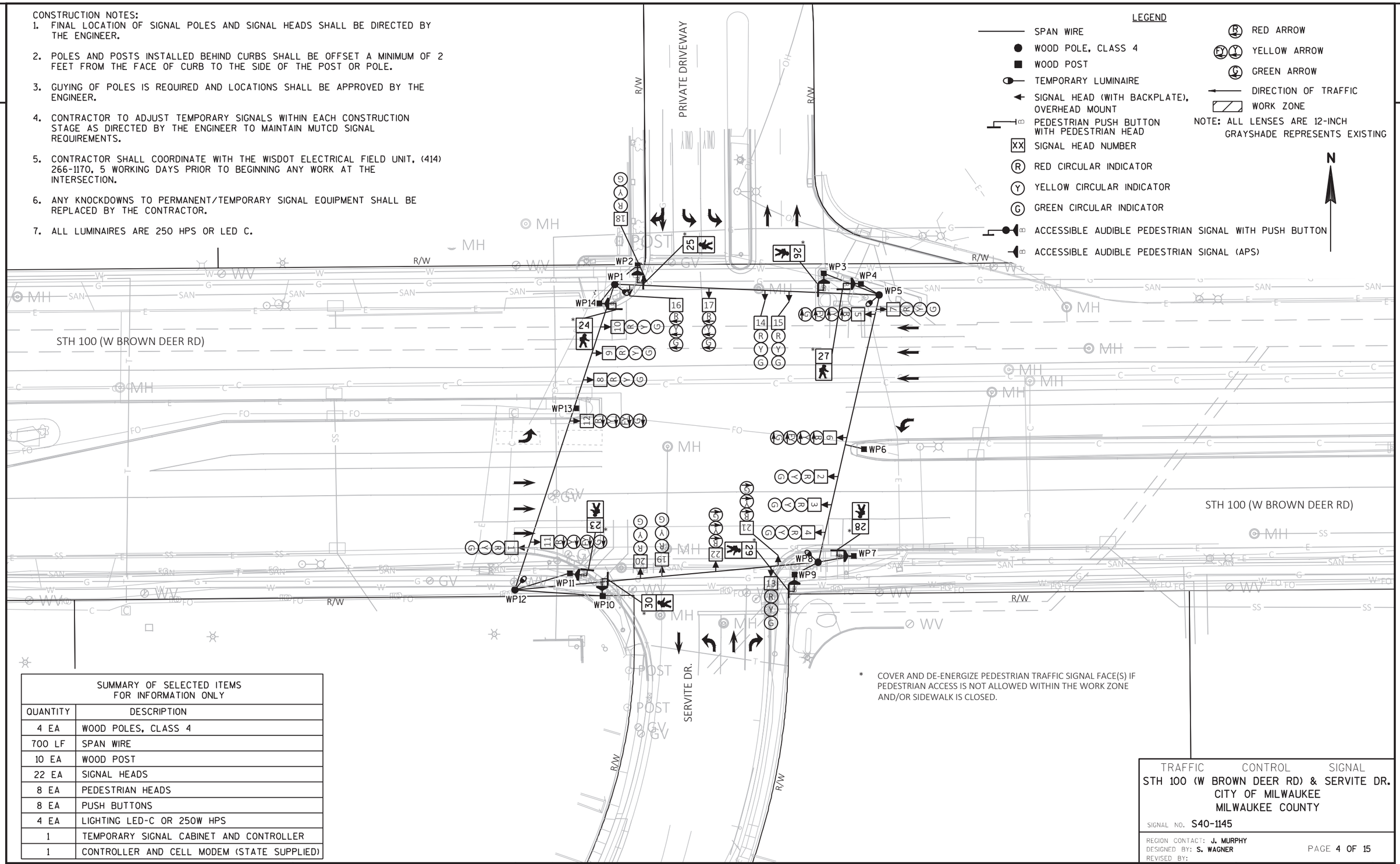
1. FINAL LOCATION OF SIGNAL POLES AND SIGNAL HEADS SHALL BE DIRECTED BY THE ENGINEER.
2. POLES AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE.
3. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
4. 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) 266-1170, 5 WORKING DAYS PRIOR TO BEGINNING ANY WORK AT THE INTERSECTION.
6. ANY KNOCKDOWNS TO PERMANENT/TEMPORARY SIGNAL EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR.
7. ALL LUMINAIRES ARE 250 HPS OR LED C.

LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- WOOD POST
- TEMPORARY LUMINAIRE
- SIGNAL HEAD (WITH BACKPLATE), OVERHEAD MOUNT
- PEDESTRIAN PUSH BUTTON WITH PEDESTRIAN HEAD
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- ACCESSIBLE AUDIBLE PEDESTRIAN SIGNAL WITH PUSH BUTTON
- ACCESSIBLE AUDIBLE PEDESTRIAN SIGNAL (APS)
- R RED ARROW
- Y YELLOW ARROW
- G GREEN ARROW
- DIRECTION OF TRAFFIC
- WORK ZONE

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

N



SUMMARY OF SELECTED ITEMS FOR INFORMATION ONLY	
QUANTITY	DESCRIPTION
4 EA	WOOD POLES, CLASS 4
700 LF	SPAN WIRE
10 EA	WOOD POST
22 EA	SIGNAL HEADS
8 EA	PEDESTRIAN HEADS
8 EA	PUSH BUTTONS
4 EA	LIGHTING LED-C OR 250W HPS
1	TEMPORARY SIGNAL CABINET AND CONTROLLER
1	CONTROLLER AND CELL MODEM (STATE SUPPLIED)

* COVER AND DE-ENERGIZE PEDESTRIAN TRAFFIC SIGNAL FACE(S) IF PEDESTRIAN ACCESS IS NOT ALLOWED WITHIN THE WORK ZONE AND/OR SIDEWALK IS CLOSED.

TRAFFIC CONTROL SIGNAL
STH 100 (W BROWN DEER RD) & SERVITE DR.
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. S40-1145

REGION CONTACT: J. MURPHY
DESIGNED BY: S. WAGNER
REVISED BY:

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL PLAN - PRECONSTRUCTION STAGE	SHEET 232	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1145\S40-1145_TSPRECON_16.DWG
LAYOUT NAME - S40-1145_TSPRECON_PG1
PLOT DATE : 10/22/2020 1:51 PM
PLOT BY : WAGNER, SCOTT H
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- WOOD POST
- TEMPORARY LUMINAIRE
- SIGNAL HEAD (WITH BACKPLATE), OVERHEAD MOUNT
- PEDESTRIAN PUSH BUTTON WITH PEDESTRIAN HEAD
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- ACCESSIBLE AUDIBLE PEDESTRIAN SIGNAL WITH PUSH BUTTON
- ACCESSIBLE AUDIBLE PEDESTRIAN SIGNAL (APS)
- (R) RED ARROW
- (FY)(Y) YELLOW ARROW
- (G) GREEN ARROW
- DIRECTION OF TRAFFIC
- WORK ZONE

NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING

TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

N

PRIVATE DRIVEWAY

R/W

WP1

WP2

WP3

WP4

STH 100 (W BROWN DEER RD)

SERVITE DR.

336

338

340

* COVER AND DE-ENERGIZE PEDESTRIAN TRAFFIC SIGNAL FACE(S) IF PEDESTRIAN ACCESS IS NOT ALLOWED WITHIN THE WORK ZONE AND/OR SIDEWALK IS CLOSED.

TRAFFIC CONTROL SIGNAL

STH 100 (W BROWN DEER RD) & SERVITE DR.
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. S40-1145

REGION CONTACT: J. MURPHY
DESIGNED BY: S. WAGNER
REVISED BY:

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1AB INSIDE	SHEET 233	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1145\S40-1145_TSTAGE1ABIN_16.DWG
LAYOUT NAME - S40-1145_Tstage1AB_PG1

PLOT DATE : 10/22/2020 1:52 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- WOOD POST
- TEMPORARY LUMINAIRE
- SIGNAL HEAD (WITH BACKPLATE), OVERHEAD MOUNT
- PEDESTRIAN PUSH BUTTON WITH PEDESTRIAN HEAD
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- ACCESSIBLE AUDIBLE PEDESTRIAN SIGNAL WITH PUSH BUTTON
- ACCESSIBLE AUDIBLE PEDESTRIAN SIGNAL (APS)
- R RED ARROW
- Y YELLOW ARROW
- G GREEN ARROW
- DIRECTION OF TRAFFIC
- WORK ZONE

NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING

TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

N

PRIVATE DRIVEWAY

R/W

STH 100 (W BROWN DEER RD)

SERVITE DR.

WP1 WP2 WP3 WP4

336 338 340

* COVER AND DE-ENERGIZE PEDESTRIAN TRAFFIC SIGNAL FACE(S) IF PEDESTRIAN ACCESS IS NOT ALLOWED WITHIN THE WORK ZONE AND/OR SIDEWALK IS CLOSED.

TRAFFIC CONTROL SIGNAL

STH 100 (W BROWN DEER RD) & SERVITE DR.
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. S40-1145

REGION CONTACT: J. MURPHY
DESIGNED BY: S. WAGNER
REVISED BY:

PAGE 6 OF 15

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1AB OUTSIDE	SHEET 234	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1145\S40-1145_TSTAGE1ABOUT_16.DWG
LAYOUT NAME - S40-1145_Tstage1ABOUT_PG1

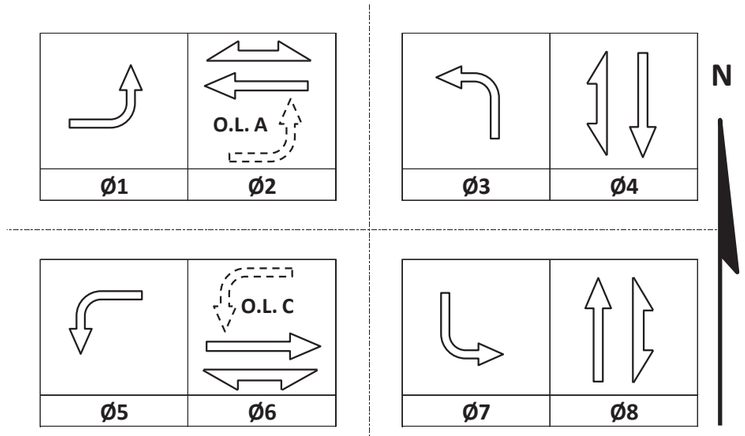
PLOT DATE : 10/22/2020 1:53 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	5,6	-
Ø2	7,8,9,10	R
Ø3	16,17	R ⟵
Ø4	18,19,20	R
Ø5	11,12	-
Ø6	1,2,3,4,5,6	R
Ø7	21,22	R ⟵
Ø8	13,14,15	R
Ø2P	25,26	
Ø4P	23,24	
Ø6P	29,30	
Ø8P	27,28	
OLA	5,6	R ⟵
OLB		
OLC	11,12	R ⟵
OLD		

RING 1

RING 2



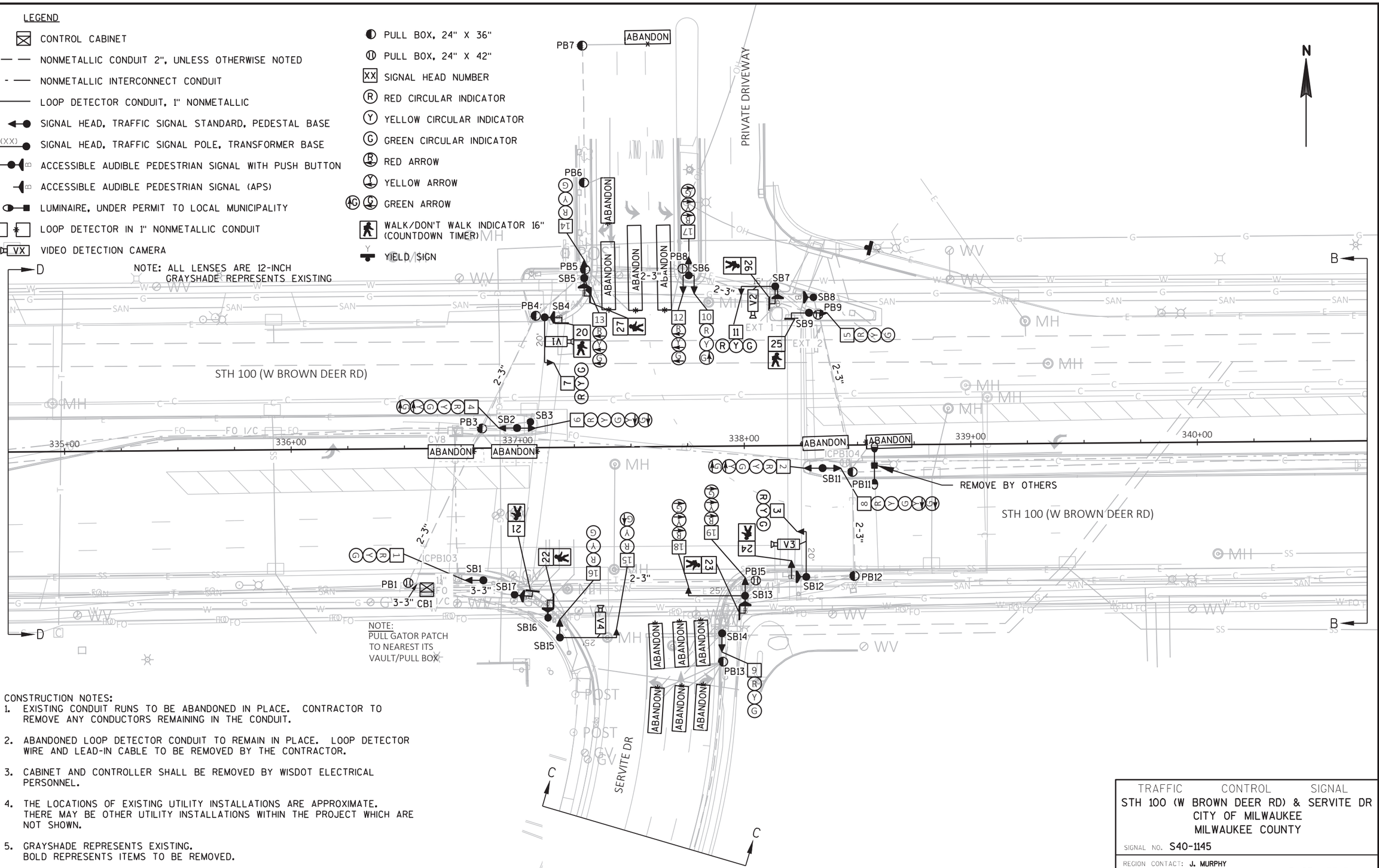
DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL	DETECTOR OPERATION			PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
		CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY							

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- ACCESSIBLE AUDIBLE PEDESTRIAN SIGNAL WITH PUSH BUTTON
- ACCESSIBLE AUDIBLE PEDESTRIAN SIGNAL (APS)
- LUMINAIRE, UNDER PERMIT TO LOCAL MUNICIPALITY
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- VIDEO DETECTION CAMERA
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- YIELD SIGN

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING



CONSTRUCTION NOTES:

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. CABINET AND CONTROLLER SHALL BE REMOVED BY WISDOT ELECTRICAL PERSONNEL.
4. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
5. GRAYSHADE REPRESENTS EXISTING.
   BOLD REPRESENTS ITEMS TO BE REMOVED.

TRAFFIC CONTROL SIGNAL
STH 100 (W BROWN DEER RD) & SERVITE DR
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. S40-1145

REGION CONTACT: J. MURPHY
DESIGNED BY: S. WAGNER
REVISED BY:

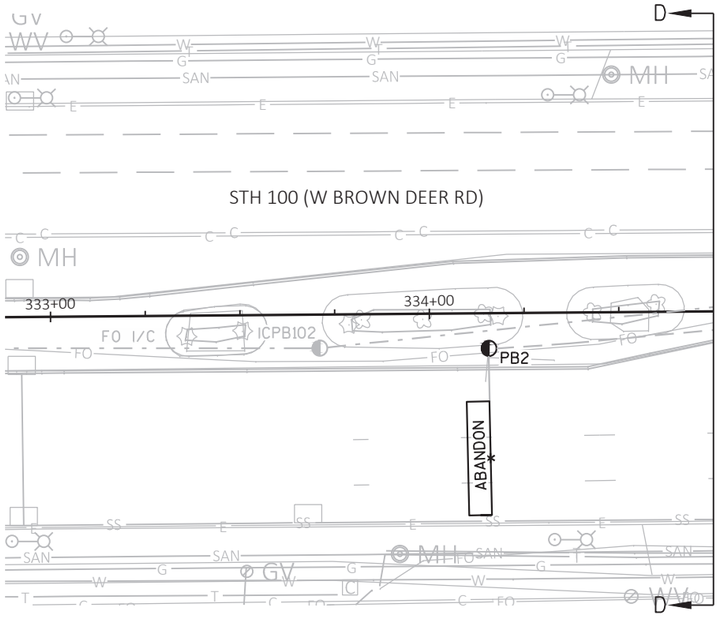
PAGE 1 OF 2

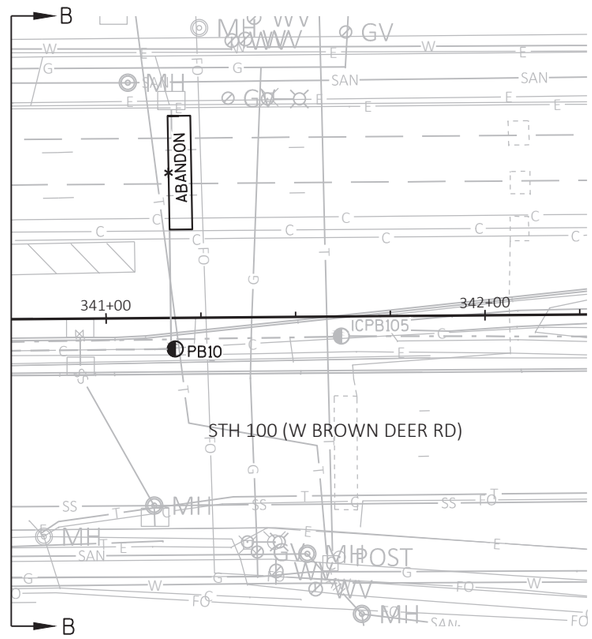
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 236	E

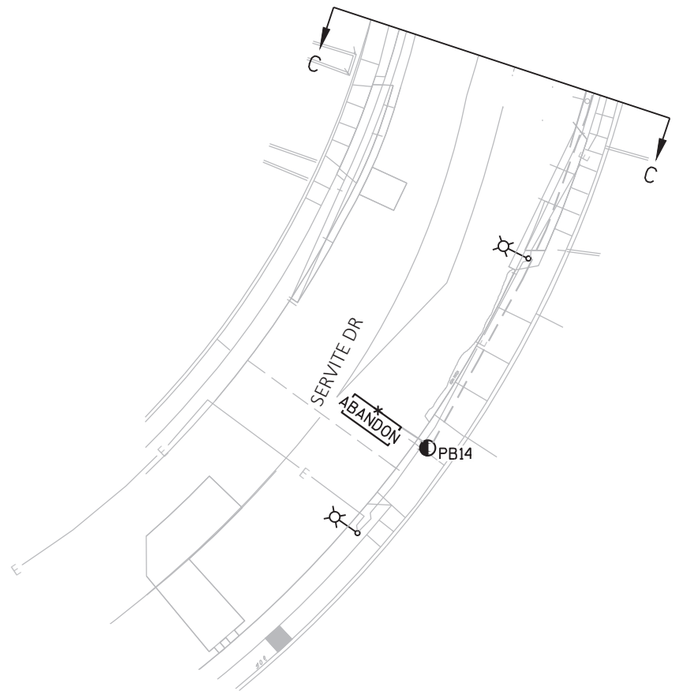
FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1145\S40-1145_RM_16.DWG
LAYOUT NAME - S40-1145_RM_PG1

PLOT DATE : 10/12/2020 10:19 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42







N

2

TRAFFIC CONTROL SIGNAL
STH 100 (W BROWN DEER RD) & SERVITE DR
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. S40-1145

REGION CONTACT: J. MURPHY
DESIGNED BY: S. WAGNER
REVISED BY:

PAGE 2 OF 2

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 237	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1145\S40-1145_RM_16.DWG
LAYOUT NAME - S40-1145_RM_PG2

PLOT DATE : 10/12/2020 10:19 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : ##########

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-45' ARM
- ACCESSIBLE AUDIBLE PEDESTRIAN SIGNAL WITH PUSH BUTTON
- ACCESSIBLE AUDIBLE PEDESTRIAN SIGNAL (APS)
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT

- 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
- R RED ARROW
- Y YELLOW ARROW
- G GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- Y YIELD SIGN

LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

N

SPEED LIMIT= 25 MPH

PRIVATE DRIVEWAY

88' TO NEAR RIGHT SIGNAL
3-6'X20'
3 TURNS EA.

PB10 PB9 PB8 PB7 PB11 PB12 PB14 PB15 PB13 PB17 PB18 PB19 PB16 PB20 PB21 PB22 PB24 PB25 PB1 PB2 PB4 PB5 PB6 CB1

SB1 SB2 SB3 SB4 SB5 SB6 SB7 SB8 SB9 SB10 SB11 SB12 SB13 SB14 SB15 SB16 SB17 SB18

R/W

2-3"

3"

40'

SPEED LIMIT= 40 MPH

3-6'X20'
4 TURNS EA.
200' TO NEAR
RIGHT SIGNAL

STH 100 (W BROWN DEER RD)

STH 100

2-6'X20'
3 TURNS EA.

3-6'X20'
3 TURNS EA.

3-6'X6'
4 TURNS EA.
200' TO NEAR
RIGHT SIGNAL

SERVITE DR

ONLY

SPEED LIMIT= 25 MPH

335+00 336+00 337+00 338+00 339+00 340+00

FO I/C

MH WV SAN G W FO SS CV

B C D

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 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 LUMINAIRES ARE LED-C UNLESS OTHERWISE NOTED.

MONOTUBE STRUCTURE NUMBERS	
SB1	S-40-2054-01
SB3	S-40-2054-02
SB5	S-40-2054-03
SB6	S-40-2054-04
SB10	S-40-2054-05
SB11	S-40-2054-06
SB15	S-40-2054-07

TRAFFIC CONTROL SIGNAL
STH 100 (W BROWN DEER RD) & SERVITE DR
CITY OF MILWAUKEE
MILWAUKEE COUNTY

CABINET TYPE: TS2-S
SIGNAL NO. S40-1145 CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
DATE 10/26/20 Joyce M Murphy
REGION TRAFFIC ENGINEER

APPROVED
DATE 10/28/20 Jason R Steven
STATE TRAFFIC ENGINEER

REGION CONTACT: J. MURPHY
DESIGNED BY: S. WAGNER
REVISED BY:

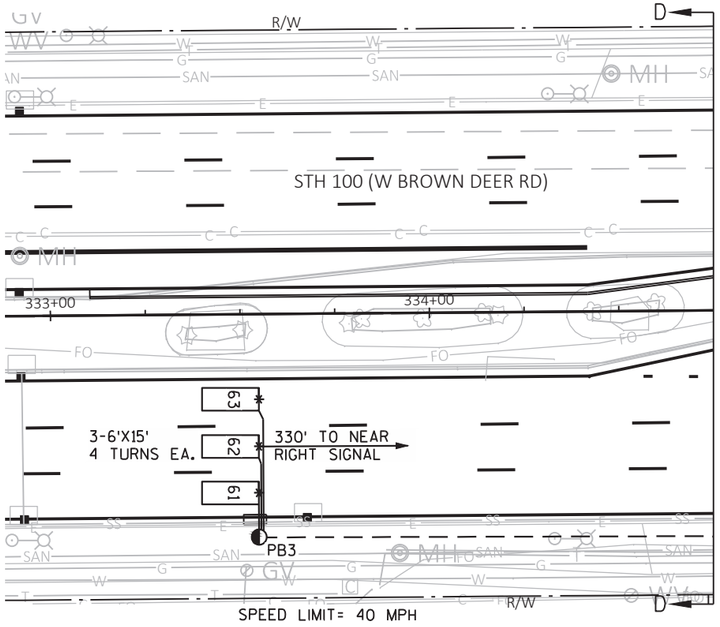
PAGE 1 OF 3

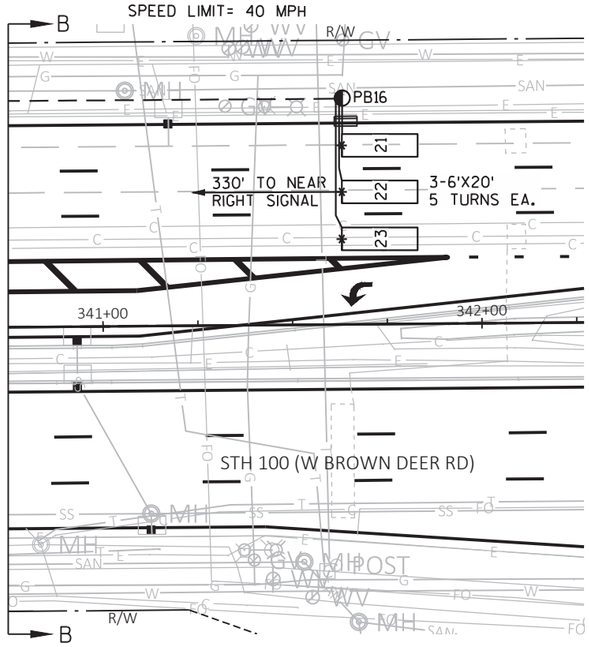
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 238	E

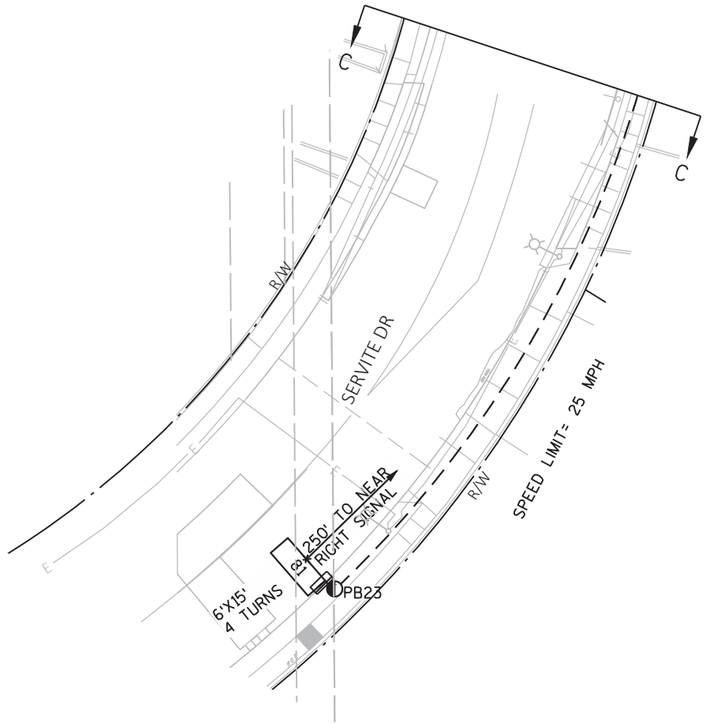
FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1145\S40-1145_16.DWG
LAYOUT NAME - S40-1145_PG1

PLOT DATE : 11/18/2020 9:34 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42







N

2

TRAFFIC CONTROL SIGNAL
STH 100 (W BROWN DEER RD) & SERVITE DR
CITY OF MILWAUKEE
MILWAUKEE COUNTY

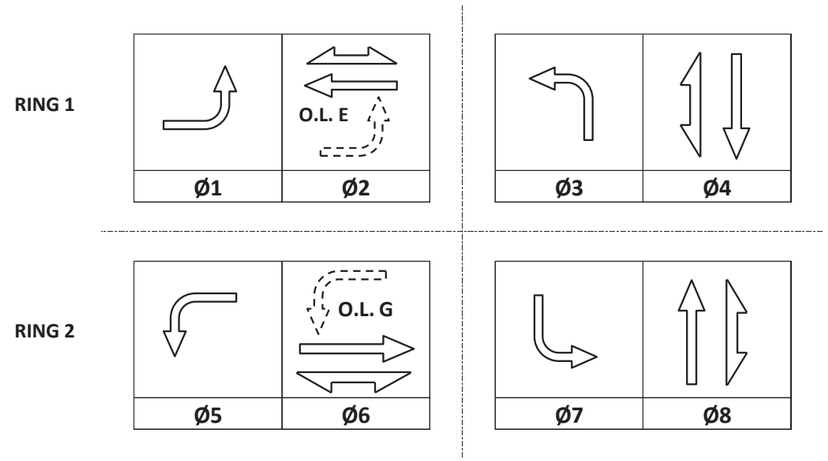
SIGNAL NO. S40-1145

REGION CONTACT: J. MURPHY
DESIGNED BY: S. WAGNER
REVISED BY:

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 239	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1145\S40-1145_16.DWG
LAYOUT NAME - S40-1145_PG2
PLOT DATE : 11/18/2020 9:35 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	5,6	R ←
Ø2	7,8,9,10	R
Ø3	16,17	R ←
Ø4	18,19,20	R
Ø5	11,12	R ←
Ø6	1,2,3,4	R
Ø7	21,22	R ←
Ø8	13,14,15	R
Ø2P	25,26	
Ø4P	23,24	
Ø6P	29,30	
Ø8P	27,28	
OLE	5,6	-
OLF		
OLG	11,12	-
OLH		



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

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

TYPE OF COORDINATION		
NONE		
TBC		
TRAFFIC RESPONSIVE		X
ADAPTIVE		
*LOCATION OF MASTER CONTROLLER NO:	S-	
SIGNAL SYSTEM NO:	SS-	0015

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

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
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	23	25	31	41	51	61	63	65	71	73	75	82	84		PLAN LOOP DETECTOR*(S)
CALLED PHASE	1	2	2	2	3	4	5	6	6	6	7	7	7	8	8		CALLED PHASE
CALL OPTION	X	X	X	X	X	X	X	X	X	X		X	X	X	X		CALL OPTION
DELAY TIME					X	X								X			DELAY TIME
EXTENTION OPTION	X	X	X	X	X	X	X	X	X	X	X	X	X		X		EXTENTION OPTION
EXTEND TIME											X						EXTEND TIME
USE ADDED INITIAL		X	X	X				X	X	X							USE ADDED INITIAL
CROSS SWITCH PHASE	2						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	24	26	32	42	52	62	64	66	72	74	81	83	85		PLAN LOOP DETECTOR*(S)
CALLED PHASE	1	2	2	2	3	4	5	6	6	6	7	7	8	8	8		CALLED PHASE
CALL OPTION	X	X	X	X	X	X	X	X	X	X	X	X		X	X		CALL OPTION
DELAY TIME					X	X								X			DELAY TIME
EXTENTION OPTION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		EXTENTION OPTION
EXTEND TIME													X				EXTEND TIME
USE ADDED INITIAL		X	X	X				X	X	X							USE ADDED INITIAL
CROSS SWITCH PHASE	2						6										CROSS SWITCH PHASE

GENERAL NOTES:

1.

2.

3.

4.

STH 100 (W BROWN DEER RD) & SERVITE DR
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO:	S40-1145	CABINET TYPE: TS2-S	
		CONTROLLER TYPE: ECONOLITE	
DATE:	11/2020	PAGE NUMBER: 3 OF 3	

PROJECT ID:	2150-00-71
INTERSECTION:	STH 100 & SERVITE DR

Signal Wire Color Coding	BLK - black	RED - red	GRN - green
	WHT - white	BLU - blue	ORG - orange

CB1 TO	AWG14 # OF CONDUCTORS	HEAD NO.	SIGNAL INDICATION WIRE COLOR									PED NEUTRAL	PED INPUT	APS
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	<FLASHING YELLOW>	D/WALK	WALK			
SB1	12	12				RED	ORG	GRN	BLK/WHT					
SB2	12	8	RED	ORG	GRN									
		9	RED	ORG	GRN									
		10	RED	ORG	GRN									
SB3	12	24												
		B								BLK	BLU			
												RED	WHT/BLK	BLU/BLK
SB4	12	16				RED	ORG	GRN	BLK/WHT					
		18	RED/BLK	ORG/BLK	GRN/BLK									
		25								BLK	BLU			
		B										RED/WHT	WHT/BLK	BLU/BLK
SB5	12	17				RED	ORG	GRN	BLK/WHT					
SB6	12	14	RED	ORG	GRN									
		15	RED	ORG	GRN									
SB7	12	26								BLK	BLU			
		B										RED	WHT/BLK	BLU/BLK
SB8	12	27								BLK	BLU			
		B										RED	WHT/BLK	BLU/BLK
SB9	12	5				RED	ORG	GRN	BLK/WHT					
		7	RED/BLK	ORG/BLK	GRN/BLK									

SB10	12	6				RED	ORG	GRN	BLK/WHT					
SB11	12	2	RED	ORG	GRN									
		3	RED	ORG	GRN									
		4	RED	ORG	GRN									
SB12	12	28								BLK	BLU			
		B										RED	WHT/BLK	BLU/BLK
SB13	12	29								BLK	BLU			
		B										RED	WHT/BLK	BLU/BLK
SB14	12	13	RED	ORG	GRN									
		21				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT					
SB15	12	19	RED	ORG	GRN									
		20	RED	ORG	GRN									
		22				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT					
SB16	12	30								BLK	BLU			
		B										RED	WHT/BLK	BLU/BLK
SB17	12	23								BLK	BLU			
		B										RED	WHT/BLK	BLU/BLK
SB18	12	1	RED	ORG	GRN									
		11				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT					

Equipment grounding conductor 10 AWG Green XLP	
From	TO
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	SB11
SB11	SB12
SB12	SB13
SB13	SB14
SB14	SB15
SB15	SB16
SB16	SB17
SB17	SB18
SB18	CB1

Pull Box Bonding Jumper 10 AWG Green XLP	
From	To
PB1	CB1
PB4	SB1
PB6	SB2
PB7	SB4
PB12	SB6
PB13	SB9
PB14	PB12
PB17	SB10
PB19	SB11
PB20	SB14
PB24	SB15
PB25	CB1

Lighting UF #12 w/ground	
From	To
CB1	SB1
SB1	SB5
CB1	SB15
SB15	SB10

*Use the white conductor in the cable assembly as the grounded conductor for all traffic signal indications
*Ensure the grounded conductor in the feeder cable and the pole cables are both 18" longer than the ungrounded conductors.
*At the signal bases, connect one terminal from the pedestrian push buttons to the color indicated in the chart. Connect the other terminal to the grounded conduct
*Reconnect the grounding conductors wherever the circuit has been interrupted to ensure the grounding circuit is complete.
*Reserve the Blue/Black conductor in the cable assembly as the APS conductor for all push buttons

2

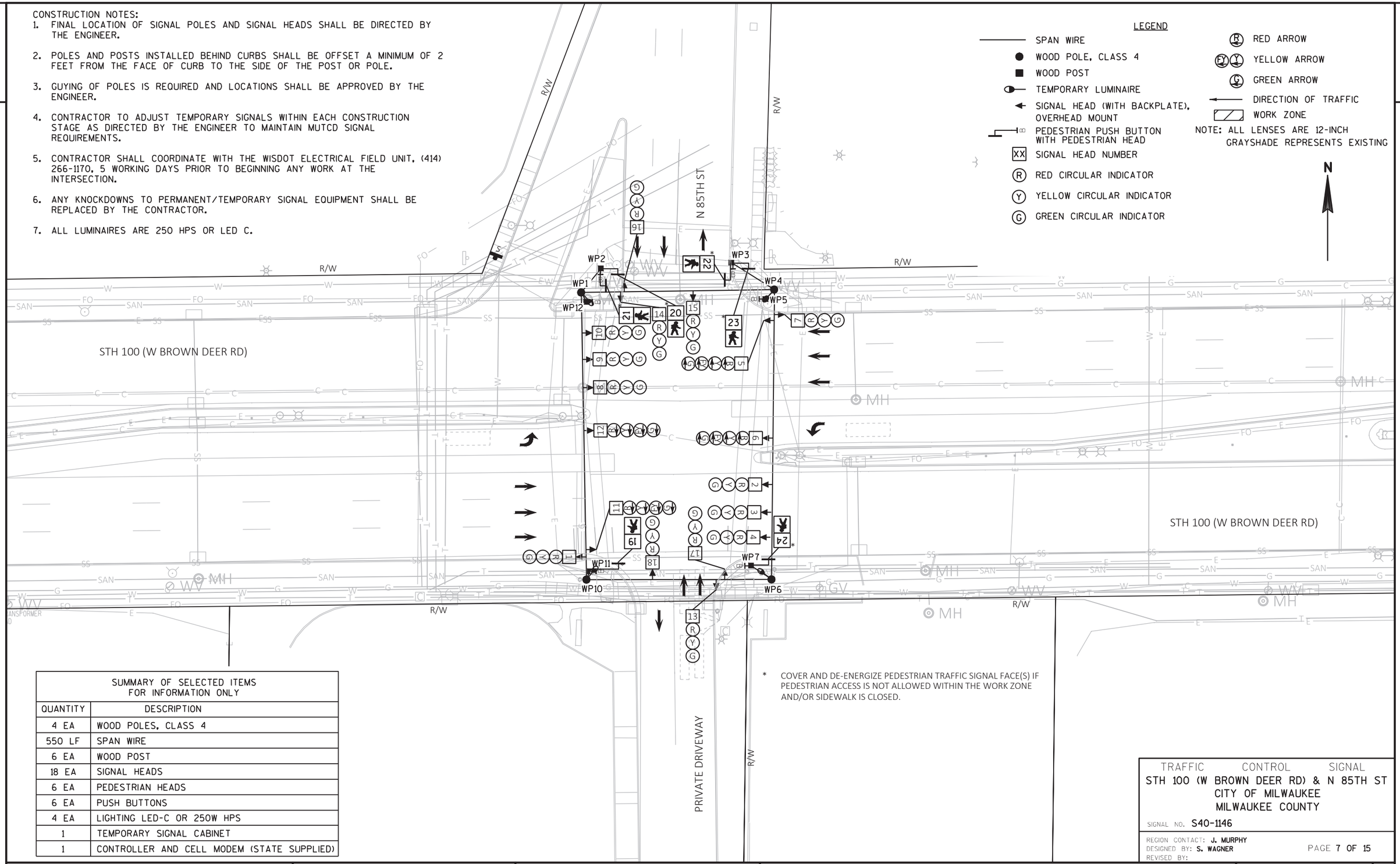
CONSTRUCTION NOTES:

1. FINAL LOCATION OF SIGNAL POLES AND SIGNAL HEADS SHALL BE DIRECTED BY THE ENGINEER.
2. 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.
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) 266-1170, 5 WORKING DAYS PRIOR TO BEGINNING ANY WORK AT THE INTERSECTION.
6. ANY KNOCKDOWNS TO PERMANENT/TEMPORARY SIGNAL EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR.
7. ALL LUMINAIRES ARE 250 HPS OR LED C.

LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- WOOD POST
- TEMPORARY LUMINAIRE
- SIGNAL HEAD (WITH BACKPLATE), OVERHEAD MOUNT
- PEDESTRIAN PUSH BUTTON WITH PEDESTRIAN HEAD
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (FY)(Y) YELLOW ARROW
- (G) GREEN ARROW
- DIRECTION OF TRAFFIC
- WORK ZONE

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING



SUMMARY OF SELECTED ITEMS FOR INFORMATION ONLY	
QUANTITY	DESCRIPTION
4 EA	WOOD POLES, CLASS 4
550 LF	SPAN WIRE
6 EA	WOOD POST
18 EA	SIGNAL HEADS
6 EA	PEDESTRIAN HEADS
6 EA	PUSH BUTTONS
4 EA	LIGHTING LED-C OR 250W HPS
1	TEMPORARY SIGNAL CABINET
1	CONTROLLER AND CELL MODEM (STATE SUPPLIED)

* COVER AND DE-ENERGIZE PEDESTRIAN TRAFFIC SIGNAL FACE(S) IF PEDESTRIAN ACCESS IS NOT ALLOWED WITHIN THE WORK ZONE AND/OR SIDEWALK IS CLOSED.

TRAFFIC CONTROL SIGNAL
STH 100 (W BROWN DEER RD) & N 85TH ST
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. S40-1146

REGION CONTACT: J. MURPHY
DESIGNED BY: S. WAGNER
REVISED BY:

PAGE 7 OF 15

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC CONTROL PLAN - PRECONSTRUCTION STAGE	SHEET 243	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1146\S40-1146_TSPRECON_16.DWG
LAYOUT NAME - S40-1146_TSPRECON_PG1

PLOT DATE : 10/29/2020 9:37 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- WOOD POST
- TEMPORARY LUMINAIRE
- SIGNAL HEAD (WITH BACKPLATE), OVERHEAD MOUNT
- PEDESTRIAN PUSH BUTTON WITH PEDESTRIAN HEAD
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (FY)(Y) YELLOW ARROW
- (G) GREEN ARROW
- DIRECTION OF TRAFFIC
- WORK ZONE

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

318 320 322

* COVER AND DE-ENERGIZE PEDESTRIAN TRAFFIC SIGNAL FACE(S) IF PEDESTRIAN ACCESS IS NOT ALLOWED WITHIN THE WORK ZONE AND/OR SIDEWALK IS CLOSED.

TRAFFIC CONTROL SIGNAL
STH 100 (W BROWN DEER RD) & N 85TH ST
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. S40-1146

REGION CONTACT: J. MURPHY
DESIGNED BY: S. WAGNER
REVISED BY:

PAGE 8 OF 15

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC CONTROL PLAN - STAGE 1AB INSIDE	SHEET 244	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1146\S40-1146_TSTAGE1ABIN_16.DWG
LAYOUT NAME - S40-1146_Tstage1AB_PG1

PLOT DATE : 10/29/2020 9:39 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- WOOD POST
- TEMPORARY LUMINAIRE
- SIGNAL HEAD (WITH BACKPLATE), OVERHEAD MOUNT
- PEDESTRIAN PUSH BUTTON WITH PEDESTRIAN HEAD
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- DIRECTION OF TRAFFIC
- WORK ZONE

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

N

318 320 322

MH WV GV TRANSFORMER

* COVER AND DE-ENERGIZE PEDESTRIAN TRAFFIC SIGNAL FACE(S) IF PEDESTRIAN ACCESS IS NOT ALLOWED WITHIN THE WORK ZONE AND/OR SIDEWALK IS CLOSED.

TRAFFIC CONTROL SIGNAL
STH 100 (W BROWN DEER RD) & N 85TH ST
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. S40-1146

REGION CONTACT: J. MURPHY
DESIGNED BY: S. WAGNER
REVISED BY:

PAGE 9 OF 15

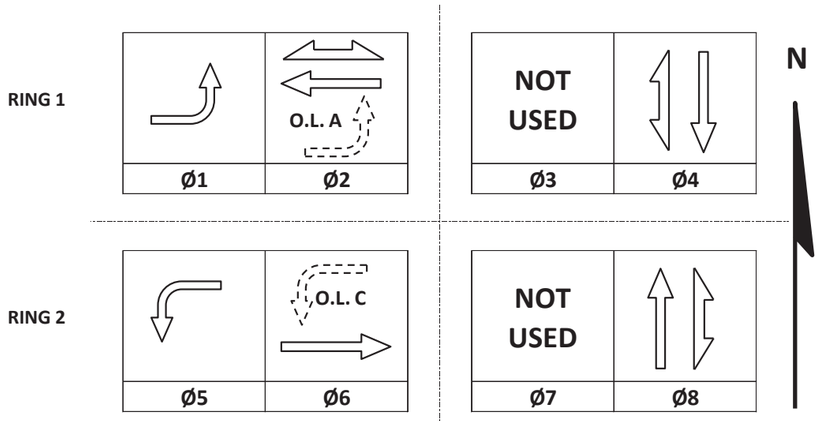
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC CONTROL PLAN - STAGE 1AB OUTSIDE	SHEET 245	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1146\S40-1146_TSTAGE1ABOUT_16.DWG
LAYOUT NAME - S40-1146_Tstage1ABOUT_PG1

PLOT DATE : 10/29/2020 9:41 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

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

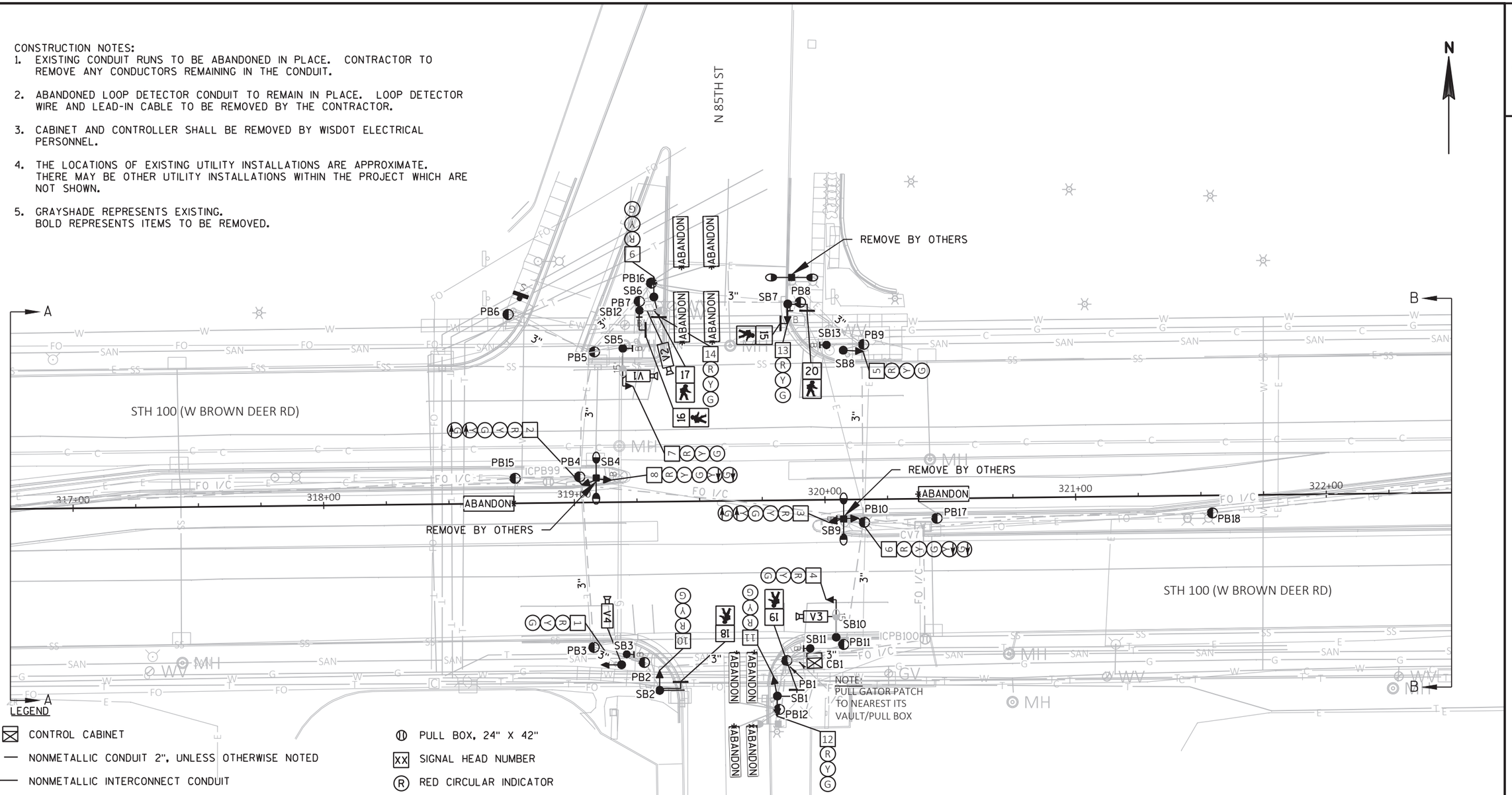


DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL	DETECTOR OPERATION			PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
		CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY							

CONSTRUCTION NOTES:

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. CABINET AND CONTROLLER SHALL BE REMOVED BY WISDOT ELECTRICAL PERSONNEL.
4. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
5. GRAYSHADE REPRESENTS EXISTING. BOLD REPRESENTS ITEMS TO BE REMOVED.



LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- YELLOW ARROW
- GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- COMMUNICATIONS VAULT

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

TRAFFIC CONTROL SIGNAL
STH 100 (W BROWN DEER RD) & N 85TH ST
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. S40-1146

REGION CONTACT: J. MURPHY
DESIGNED BY: S. WAGNER
REVISED BY:

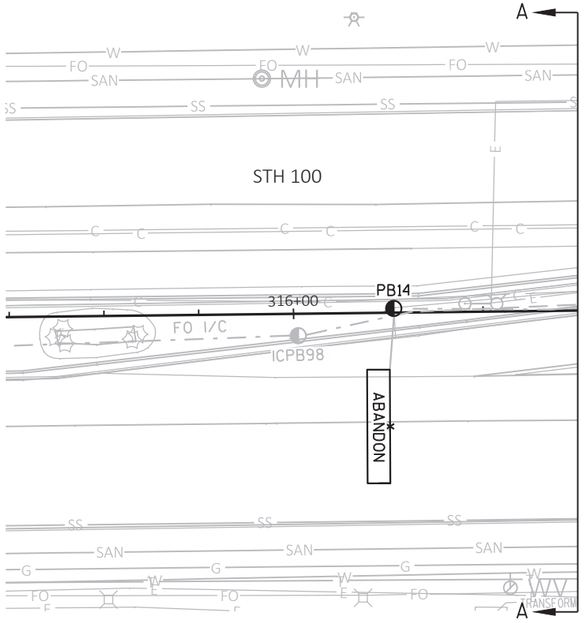
PAGE 1 OF 2

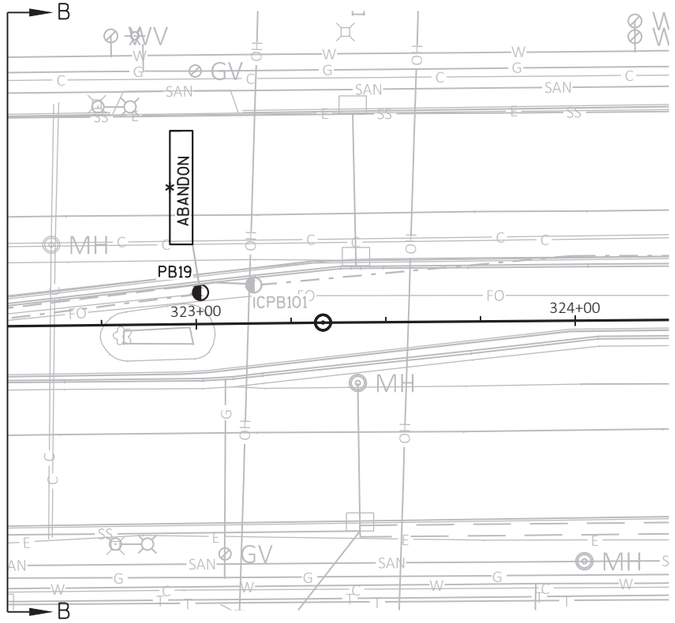
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 247	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1146\S40-1146_RM_16.DWG
LAYOUT NAME - S40-1146_RM_PG1

PLOT DATE : 10/12/2020 11:16 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42





N

2

TRAFFIC CONTROL SIGNAL
STH 100 & 85TH STREET
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. S40-1146

REGION CONTACT: J. MURPHY
DESIGNED BY: S. WAGNER
REVISED BY:

PAGE 2 OF 2

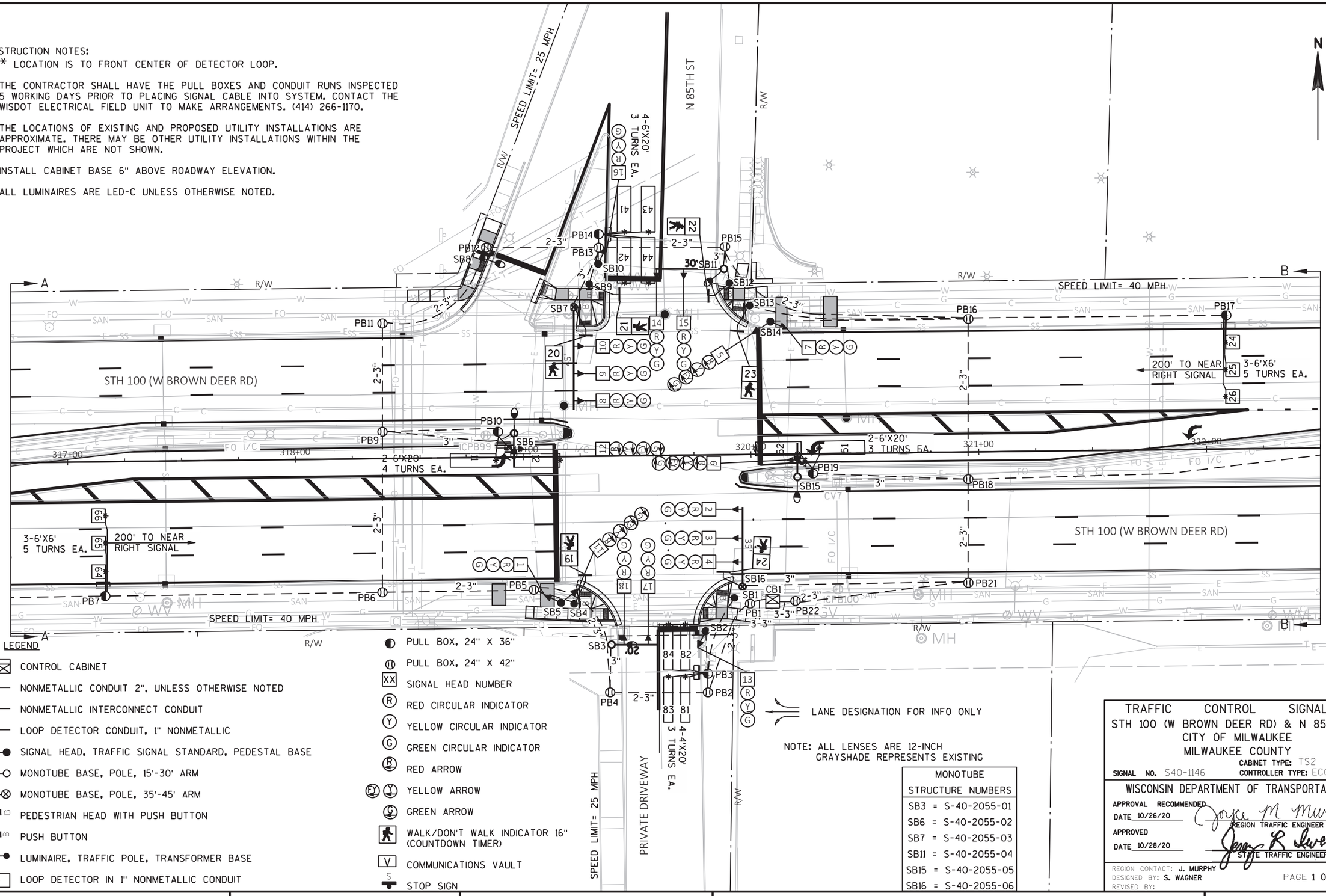
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 248	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1146\S40-1146_RM_16.DWG
LAYOUT NAME - S40-1146_RM_PG2

PLOT DATE : 10/12/2020 11:17 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

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 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 LUMINAIRES ARE LED-C UNLESS OTHERWISE NOTED.



LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-45' ARM
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- 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
- R RED ARROW
- FY YELLOW ARROW
- G GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- V COMMUNICATIONS VAULT
- S STOP SIGN

LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

MONOTUBE STRUCTURE NUMBERS
SB3 = S-40-2055-01
SB6 = S-40-2055-02
SB7 = S-40-2055-03
SB11 = S-40-2055-04
SB15 = S-40-2055-05
SB16 = S-40-2055-06

TRAFFIC CONTROL SIGNAL
STH 100 (W BROWN DEER RD) & N 85TH ST
CITY OF MILWAUKEE
MILWAUKEE COUNTY

CABINET TYPE: TS2
SIGNAL NO. S40-1146 CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
DATE 10/26/20 Joyce M Murphy
REGION TRAFFIC ENGINEER

APPROVED
DATE 10/28/20 Jerry R Steven
STATE TRAFFIC ENGINEER

REGION CONTACT: J. MURPHY
DESIGNED BY: S. WAGNER
REVISED BY:

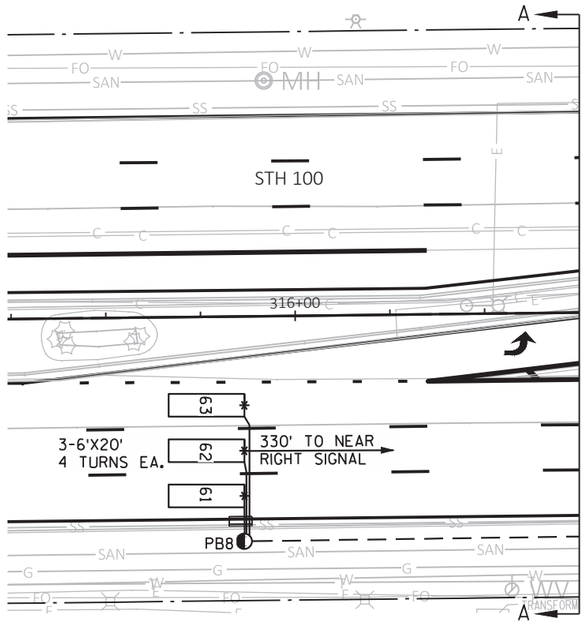
PAGE 1 OF 3

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 249 E

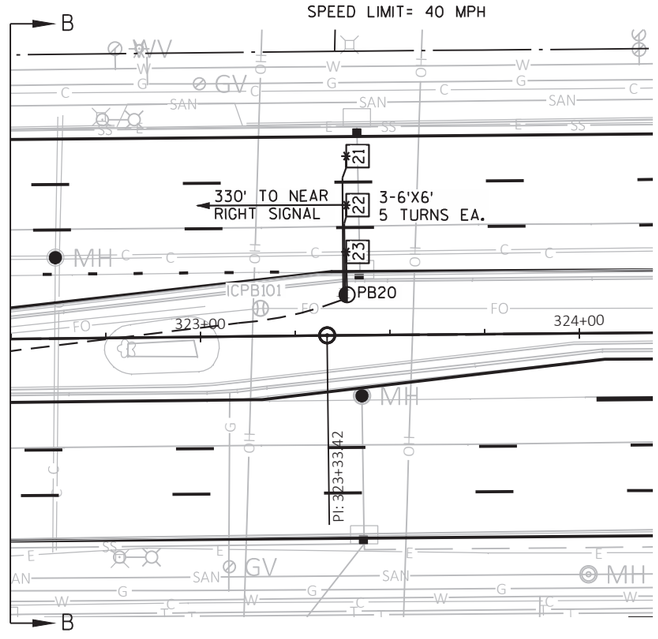
FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1146\S40-1146_16.DWG
LAYOUT NAME - S40-1146_PG1
PLOT DATE : 11/18/2020 9:40 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N



SPEED LIMIT= 40 MPH



TRAFFIC CONTROL SIGNAL
STH 100 (W BROWN DEER RD) & N 85TH ST
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. S40-1146

REGION CONTACT: J. MURPHY
DESIGNED BY: S. WAGNER
REVISED BY:

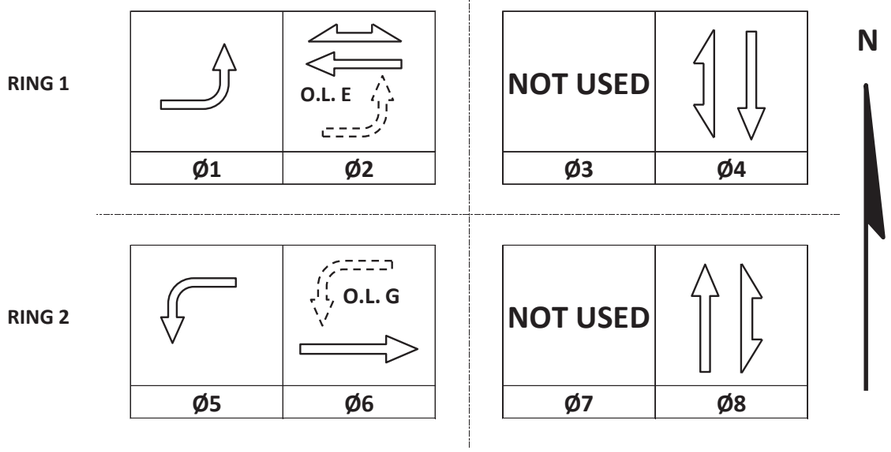
PAGE 2 OF 3

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 250	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1146\S40-1146_16.DWG
LAYOUT NAME - S40-1146_PG2

PLOT DATE : 11/18/2020 9:41 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

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



CONTROLLER LOGIC

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

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

TYPE OF COORDINATION		
NONE		
TBC		
TRAFFIC RESPONSIVE		X
ADAPTIVE		
*LOCATION OF MASTER CONTROLLER NO:	S-	
SIGNAL SYSTEM NO:	SS-	0015

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	

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	23	25	41	43	51	61	63	65	81	83					PLAN LOOP DETECTOR*(S)
CALLED PHASE	1	2	2	2	4	4	5	6	6	6	8	8					CALLED PHASE
CALL OPTION	X	X	X	X	X	X	X	X	X	X	X	X					CALL OPTION
DELAY TIME						X					X	X					DELAY TIME
EXTENTION OPTION	X	X	X	X	X	X	X	X	X	X	X	X					EXTENTION OPTION
EXTEND TIME																	EXTEND TIME
USE ADDED INITIAL		X	X	X				X	X	X							USE ADDED INITIAL
CROSS SWITCH PHASE	2						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	24	26	42	44	52	62	64	66	82	84					PLAN LOOP DETECTOR*(S)
CALLED PHASE	1	2	2	2	4	4	5	6	6	6	8	8					CALLED PHASE
CALL OPTION	X	X	X	X	X	X	X	X	X	X	X	X					CALL OPTION
DELAY TIME						X					X	X					DELAY TIME
EXTENTION OPTION	X	X	X	X	X	X	X	X	X	X	X	X					EXTENTION OPTION
EXTEND TIME																	EXTEND TIME
USE ADDED INITIAL		X	X	X				X	X	X							USE ADDED INITIAL
CROSS SWITCH PHASE	2						6										CROSS SWITCH PHASE

GENERAL NOTES:

1.

2.

3.

4.

STH 100 (W BROWN DEER RD) & N 85TH ST
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO:	S40-1146	CABINET TYPE: TS2-S
		CONTROLLER TYPE: ECONOLITE
DATE:	11/1/2020	PAGE NUMBER: 3 OF 3

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	SEQUENCE OF OPERATIONS	SHEET NO: 251	E

PROJECT ID:	2150-00-71
INTERSECTION:	STH 100 & 85TH ST

Signal Wire Color Coding	BLK - black	RED - red	GRN - green
	WHT - white	BLU - blue	ORG - orange

CB1 TO	AWG14 # OF CONDUCTORS	HEAD NO.	SIGNAL INDICATION WIRE COLOR									PED NEUTRAL	PED INPUT
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	<FLASHING YELLOW>	D/WALK	WALK		
SB1	7	B										RED	WHT/BLK
SB2	12	13	RED	ORG	GRN								
SB3	12	17	RED	ORG	GRN								
		18	RED	ORG	GRN								
SB4	7	19								BLK	BLU		
		B										RED	WHT/BLK
SB5	12	1	RED	ORG	GRN								
		11				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
SB6	12	12				RED	ORG	GRN	BLK/WHT				
SB7	12	8	RED	ORG	GRN								
		9	RED	ORG	GRN								
		10	RED	ORG	GRN								
		20								BLK	BLU		
		B										RED	WHT/BLK
SB9	7	21								BLK	BLU		
		B										RED	WHT/BLK
SB10	12	16	RED	ORG	GRN								
SB11	12	14	RED	ORG	GRN								
		15	RED	ORG	GRN								
SB12	7	22								BLK	BLU		
		B										RED	WHT/BLK
SB13	7	23								BLK	BLU		
		B										RED	WHT/BLK
SB14	12	5				RED	ORG	GRN	BLK/WHT				
		7	RED/BLK	ORG/BLK	GRN/BLK								
SB15	12	6				RED	ORG	GRN	BLK/WHT				
SB16	12	2	RED	ORG	GRN								
		3	RED	ORG	GRN								
		4	RED	ORG	GRN								
		24								BLK	BLU		

2

Equipment grounding conductor 10 AWG Green XLP	
From	TO
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	SB11
SB11	SB12
SB12	SB13
SB13	SB14
SB14	SB15
SB15	SB16
SB16	CB1

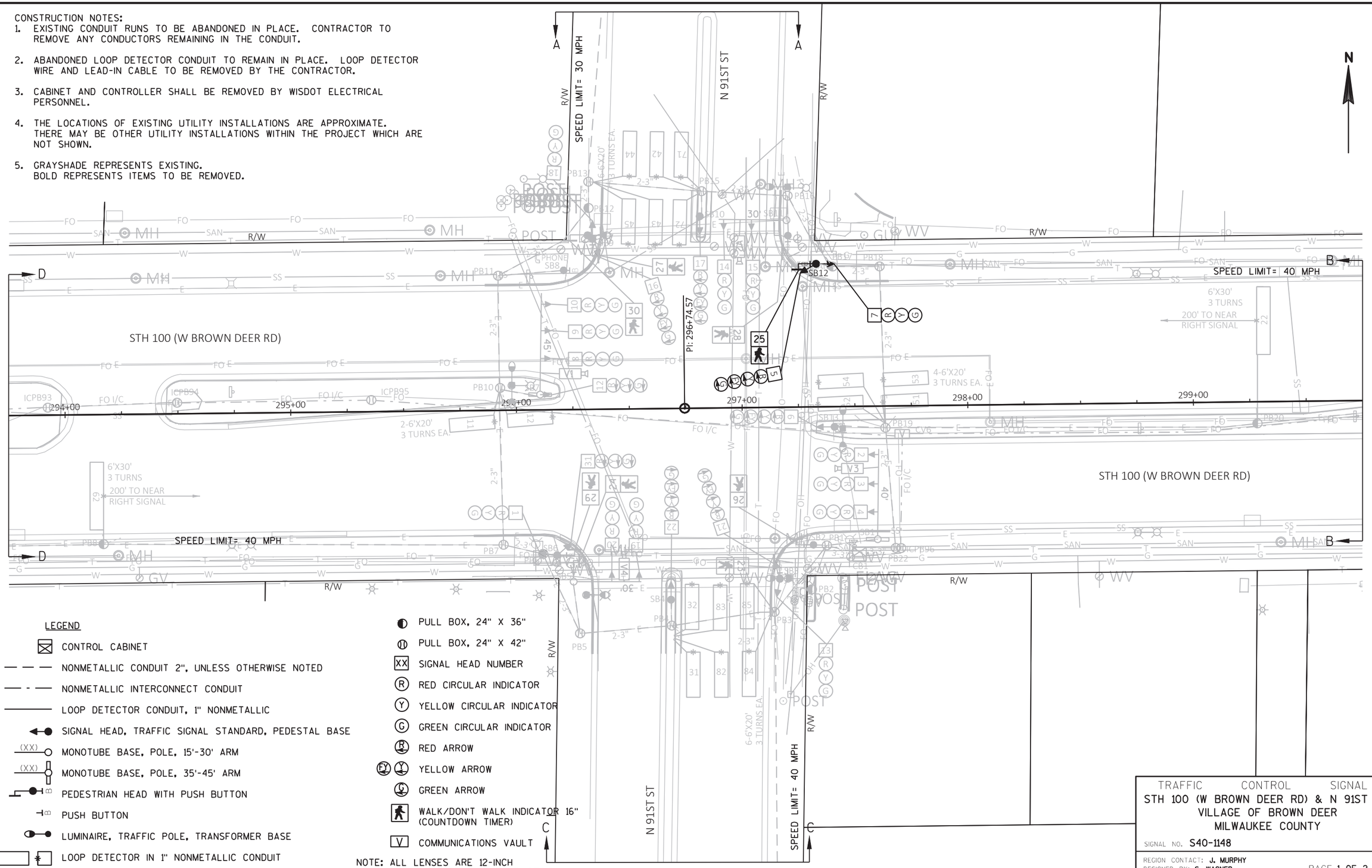
Pull Box Bonding Jumper 10 AWG Green XLP	
From	To
PB1	CB1
PB2	PB3
PB3	SB2
PB4	SB3
PB5	SB5
PB6	PB5
PB9	SB6
PB11	SB8
PB12	SB8
PB13	SB9
PB15	SB11
PB16	SB14
PB18	SB15
PB21	SB16
PB22	CB1

Lighting UF #12 w/ground	
From	To
CB1	SB3
SB3	SB6
SB6	SB8
CB1	SB15
SB15	SB11

***Use the white conductor in the cable assembly as the grounded conductor for all traffic signal indications**
***Ensure the grounded conductor in the feeder cable and the pole cables are both 18" longer than the ungrounded conductors.**
***At the signal**
***Reconnect the**
***Reserve the Blue/Black conductor in the cable assembly as the APS conductor for all push buttons**

CONSTRUCTION NOTES:

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. CABINET AND CONTROLLER SHALL BE REMOVED BY WISDOT ELECTRICAL PERSONNEL.
4. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
5. GRAYSHADE REPRESENTS EXISTING. BOLD REPRESENTS ITEMS TO BE REMOVED.



LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-45' ARM
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- 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
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- V COMMUNICATIONS VAULT

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

TRAFFIC CONTROL SIGNAL
STH 100 (W BROWN DEER RD) & N 91ST ST
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1148

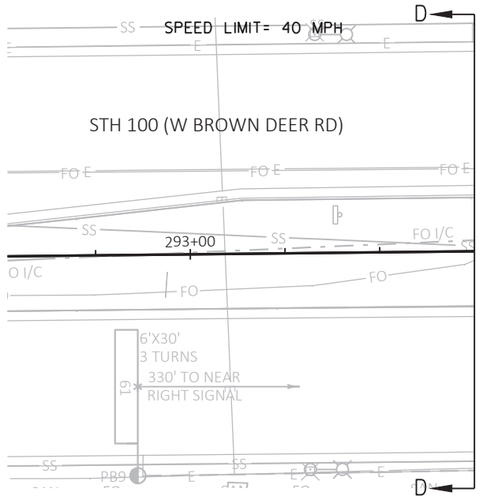
REGION CONTACT: J. MURPHY
DESIGNED BY: S. WAGNER
REVISED BY:

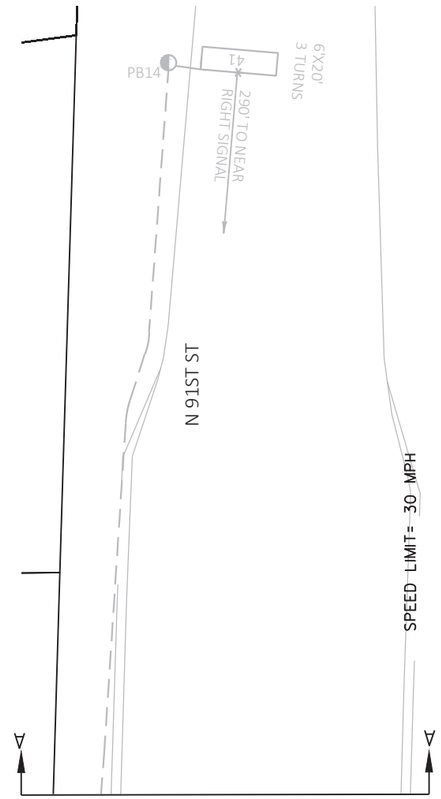
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 254	E

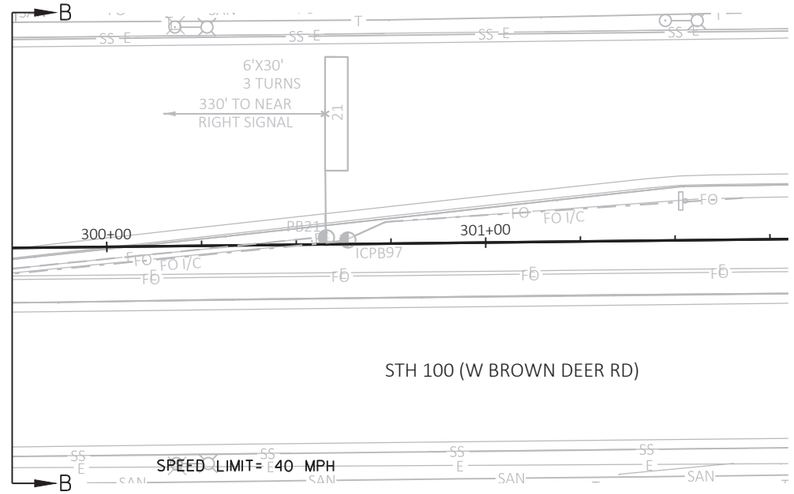
FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1148\S40-1148_RM.DWG
LAYOUT NAME - S40-1148_RM_PG1

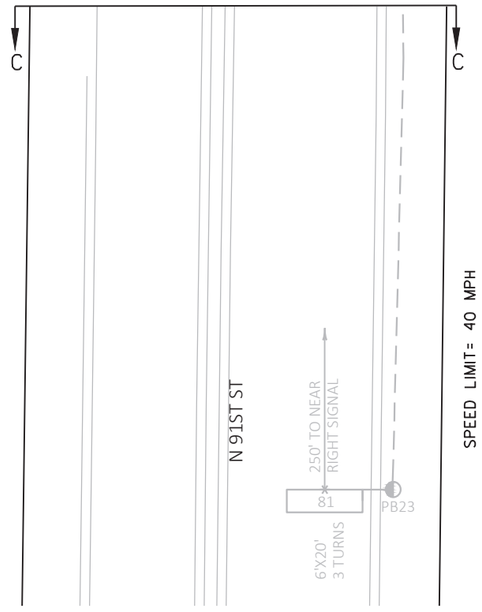
PLOT DATE : 10/22/2020 2:45 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

2









TRAFFIC CONTROL SIGNAL

STH 100 (W BROWN DEER RD) & N 91ST ST
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1148

REGION CONTACT: J. MURPHY
DESIGNED BY: S. WAGNER
REVISED BY:

PAGE 2 OF 2

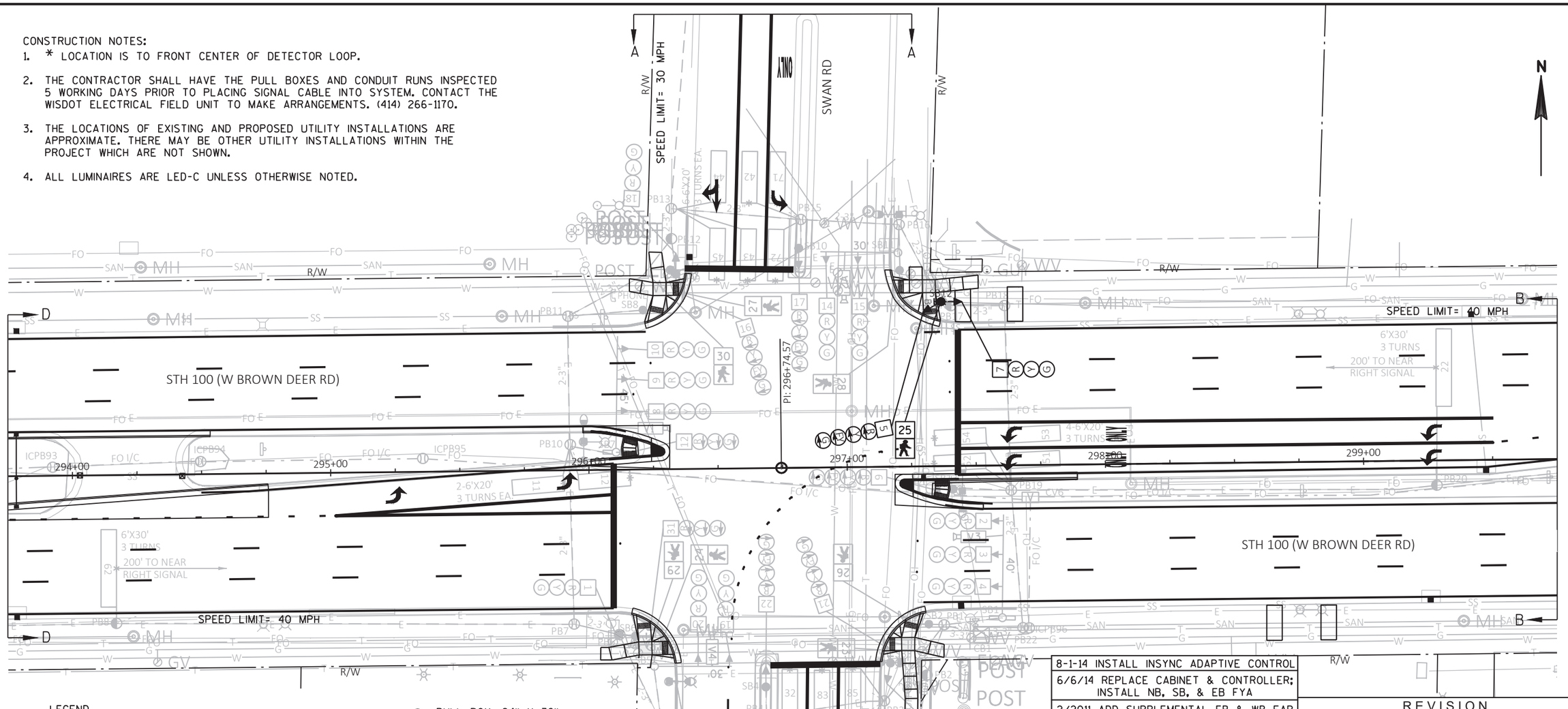
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 255	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1148\S40-1148_RM.DWG
LAYOUT NAME - S40-1148_RM_PG2

PLOT DATE : 10/22/2020 2:47 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : ##########

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 EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. ALL LUMINAIRES ARE LED-C UNLESS OTHERWISE NOTED.



LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-45' ARM
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- VX VIDEO DETECTION CAMERA
- 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
- (R) RED ARROW
- (FY) (Y) YELLOW ARROW
- (G) GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- V COMMUNICATIONS VAULT

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

REVISION	
8-1-14	INSTALL INSYNC ADAPTIVE CONTROL
6/6/14	REPLACE CABINET & CONTROLLER; INSTALL NB, SB, & EB FYA
2/2011	ADD SUPPLEMENTAL EB & WB FAR LT SIGNAL HEADS, INSTALL FIBER OPTIC INTERCONNECT
2-11-10	TOTAL SIGNAL REHAB
4-11-01	REPLACED POLES AND MAST ARMS ADDED NB, SB, EB LT, WB LT STOPLINE LOOPS ADDED ADVANCED LOOPS ALL
	APPROACHES, INSTALLED EPAC CONTR. & CABINET, ADD SB LT PHASE 7
10-4-99	CHANGE YELLOW FLASH TO RED
	REV. WB & NB LEFT TURN LANES, ADDED ARROWS AND DETECTION NB & EB, CHANGE CONTROLLER TO LC8000
5-94	DUAL WB LEFT TURN LANE ADDED CAPACITY NB LEFT TURN LANE
12-4-91	INSTALL PED HEADS, ACTUATE E/W PED HEADS
10-9-86	RECONSTRUCT N & S APPROACHES
1986	INITIAL INSTALL

REVISION

REV. NO.	MOVE SB 12 AND HEADS 5, 7, 25 AND PED BUTTON AND PED HEAD			
	APPROVAL RECOMMENDED		APPROVED	
	REGION		CENTRAL OFFICE	
12	DATE	BY	DATE	BY
	10/26/20	JMM	10/28/20	

TRAFFIC CONTROL SIGNAL
STH 100 (W BROWN DEER RD) & N 91ST ST
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. S40-1148
CABINET TYPE: TS2
CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
DATE 10/26/20 — Joyce M Murphy — REGION TRAFFIC ENGINEER

APPROVED
DATE 10/28/20 — STATE TRAFFIC ENGINEER

REGION CONTACT: J. MURPHY
DESIGNED BY: S. WAGNER
REVISED BY:

PAGE 1 OF 3

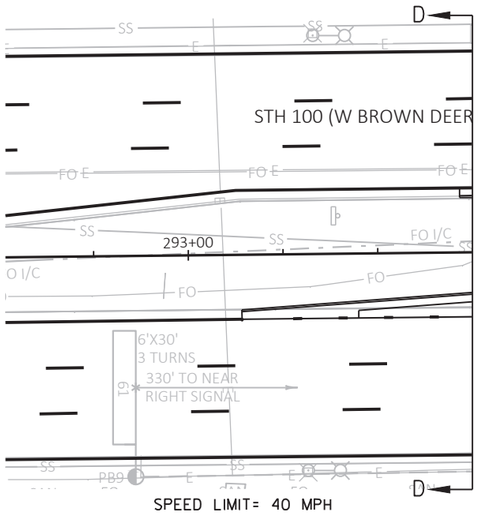
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 256 E

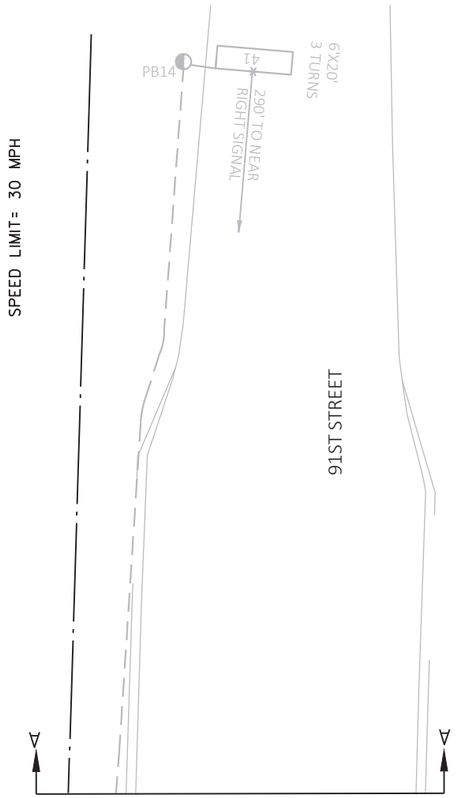
FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1148\S40-1148_16.DWG
LAYOUT NAME - S40-1148_PG1

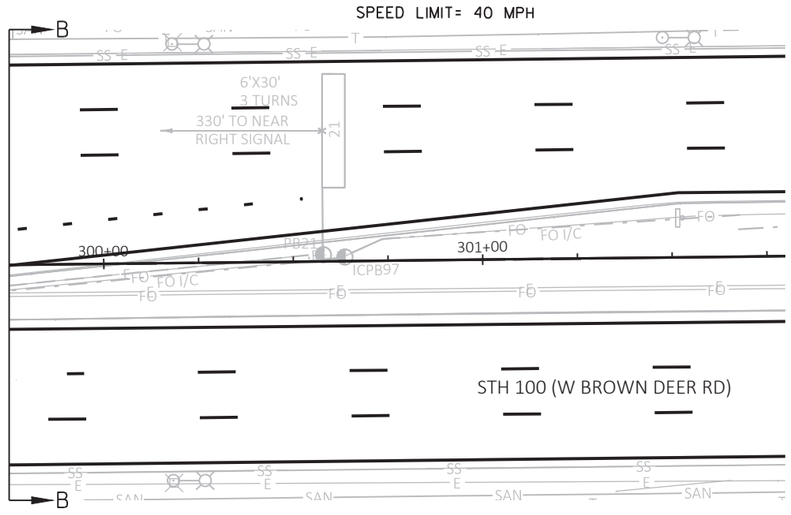
PLOT DATE : 11/18/2020 10:08 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

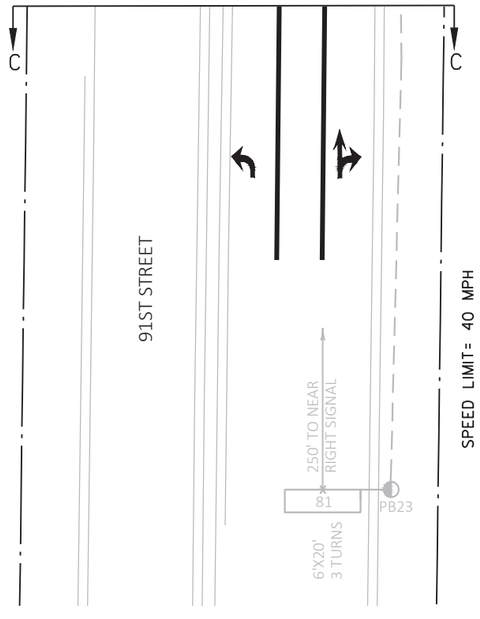
WISDOT/CADDS SHEET 42

2









TRAFFIC CONTROL SIGNAL
STH 100 (W BROWN DEER RD) & N 91ST ST
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1148

REGION CONTACT: J. MURPHY
DESIGNED BY: S. WAGNER
REVISED BY:

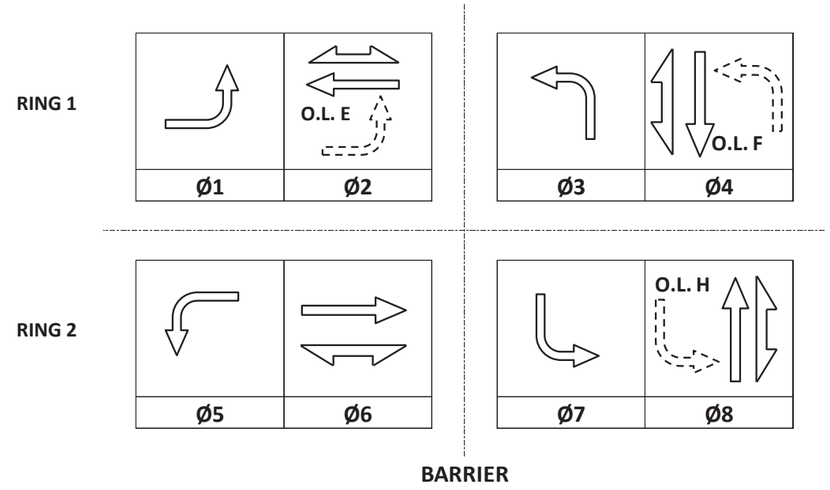
PAGE 2 OF 3

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 257	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1148\S40-1148_16.DWG
LAYOUT NAME - S40-1148_PG2

PLOT DATE : 11/18/2020 10:10 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : ##########

	HEAD NUMBERS	FLASH
Ø1	5,6	R ←
Ø2	7,8,9,10	R
Ø3	16,17	R ←
Ø4	18,19,20	R
Ø5	12,31	R ←
Ø6	1,2,3,4	R
Ø7	21,22	R ←
Ø8	13,14,15	R
Ø2P	27,28	
Ø4P	29,30	
Ø6P	23,24	
Ø8P	25,26	
OLE	5,6	-
OLF	16,17	-
OLG		
OLH	21,22	-



N

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

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

TYPE OF COORDINATION		
NONE		
TBC		
TRAFFIC RESPONSIVE		X
ADAPTIVE		
*LOCATION OF MASTER CONTROLLER NO:	S-	
SIGNAL SYSTEM NO:	SS-	0121

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

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
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	52	54	62	72	82	84					PLAN LOOP DETECTOR*(S)
CALLED PHASE	1	2	3	4	4	4	5	5	6	7	8	8					CALLED PHASE
CALL OPTION	X	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													EXTEND TIME
USE ADDED INITIAL		X							X								USE ADDED INITIAL
CROSS SWITCH PHASE	2		4							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	51	53	61	71	81	83	85					PLAN LOOP DETECTOR*(S)
CALLED PHASE	1	2	3	4	4	5	5	6	7	8	8	8					CALLED PHASE
CALL OPTION	X	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							EXTEND TIME
USE ADDED INITIAL		X						X									USE ADDED INITIAL
CROSS SWITCH PHASE	2		4						8								CROSS SWITCH PHASE

GENERAL NOTES:

1.

2.

3.

4.

STH 100 (W BROWN DEER RD) & N 91ST ST
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO:	S40-1148	CABINET TYPE: TS2-S
		CONTROLLER TYPE: ECONOLITE
DATE:	11/1/2020	PAGE NUMBER: 3 OF 3

FILE NAME: \\wkertovfilpi01.dot.state.wi.us\N3PUBLIC\SPO\Operations\Signals\Databases\Signal Intersection Files\S40-1148\PLANS\TS2-S_E_FYA_EFGH_Econolite_SEQ.xlsx PLOT DATE: 10/26/2020 PLOT NAME: TS2-S_E_FYA_EFGH_Econolite_SEQ.xlsx PLOT BY: _____ PLOT SCALE: 1:1

CONSTRUCTION NOTES:

1. FINAL LOCATION OF SIGNAL POLES AND SIGNAL HEADS SHALL BE DIRECTED BY THE ENGINEER.
2. 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.
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) 266-1170, 5 WORKING DAYS PRIOR TO BEGINNING ANY WORK AT THE INTERSECTION.
6. ANY KNOCKDOWNS TO PERMANENT/TEMPORARY SIGNAL EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR.
7. ALL LUMINAIRES ARE 250 HPS OR LED C.

LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- WOOD POST
- TEMPORARY LUMINAIRE
- SIGNAL HEAD (WITH BACKPLATE), OVERHEAD MOUNT
- PEDESTRIAN PUSH BUTTON WITH PEDESTRIAN HEAD
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (FY)(Y) YELLOW ARROW
- (G) GREEN ARROW
- DIRECTION OF TRAFFIC
- WORK ZONE

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

* COVER AND DE-ENERGIZE PEDESTRIAN TRAFFIC SIGNAL FACE(S) IF PEDESTRIAN ACCESS IS NOT ALLOWED WITHIN THE WORK ZONE AND/OR SIDEWALK IS CLOSED.

N

STH 100 (W BROWN DEER RD)

STH 100 (W BROWN DEER RD)

N 64TH ST

WP1 WP2 WP3 WP4 WP5 WP6 WP7 WP8

SUMMARY OF SELECTED ITEMS FOR INFORMATION ONLY	
QUANTITY	DESCRIPTION
4 EA	WOOD POLES, CLASS 4
600 LF	SPAN WIRE
4 EA	WOOD POST
18 EA	SIGNAL HEADS
4 EA	PEDESTRIAN HEADS
4 EA	PUSH BUTTONS
4 EA	LIGHTING LED-C OR 250W HPS
1	TEMPORARY SIGNAL CABINET
1	CONTROLLER AND CELL MODEM (STATE SUPPLIED)

TRAFFIC CONTROL SIGNAL
STH 100 (W BROWN DEER RD) & N 64TH ST
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1180

REGION CONTACT: J. MURPHY
DESIGNED BY: S. WAGNER
REVISED BY:

PAGE 10 OF 15

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL PLAN - PRECONSTRUCTION STAGE	SHEET 259	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1180\S40-1180_TSPRECON_16.DWG
LAYOUT NAME - S40-1180_TSPRECON_PG1

PLOT DATE : 11/18/2020 7:53 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

* COVER AND DE-ENERGIZE PEDESTRIAN TRAFFIC SIGNAL FACE(S) IF PEDESTRIAN ACCESS IS NOT ALLOWED WITHIN THE WORK ZONE AND/OR SIDEWALK IS CLOSED.

N

LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- WOOD POST
- TEMPORARY LUMINAIRE
- SIGNAL HEAD (WITH BACKPLATE), OVERHEAD MOUNT
- PEDESTRIAN PUSH BUTTON WITH PEDESTRIAN HEAD
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- DIRECTION OF TRAFFIC
- WORK ZONE

NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING

TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

WP1 WP2 WP3 WP4 WP5 WP6 WP7 WP8

STH 100 (W BROWN DEER RD)

STH 100 (W BROWN DEER RD)

N 64TH ST

R/W

BLDG

388 390 392

TRAFFIC CONTROL SIGNAL
STH 100 (W BROWN DEER RD) & N 64TH ST
VILLEGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1180

REGION CONTACT: J. MURPHY
DESIGNED BY: S. WAGNER
REVISED BY:

PAGE 11 OF 15

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1AB INSIDE	SHEET 260	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1180\S40-1180_TSTAGE1ABIN_16.DWG
LAYOUT NAME - S40-1180_Tstage1AB_PG1

PLOT DATE : 11/18/2020 7:53 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

* COVER AND DE-ENERGIZE PEDESTRIAN TRAFFIC SIGNAL FACE(S) IF PEDESTRIAN ACCESS IS NOT ALLOWED WITHIN THE WORK ZONE AND/OR SIDEWALK IS CLOSED.

N

LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- WOOD POST
- TEMPORARY LUMINAIRE
- SIGNAL HEAD (WITH BACKPLATE), OVERHEAD MOUNT
- PEDESTRIAN PUSH BUTTON WITH PEDESTRIAN HEAD
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- FY Y YELLOW ARROW
- G GREEN ARROW
- DIRECTION OF TRAFFIC
- WORK ZONE

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

STH 100 (W BROWN DEER RD)

STH 100 (W BROWN DEER RD)

N 64TH ST

WP1 WP2 WP3 WP4 WP5 WP6 WP7 WP8

R/W

BLDG

388 390 392

TRAFFIC CONTROL SIGNAL
STH 100 (W BROWN DEER RD) & N 64TH ST
VILLEGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1180

REGION CONTACT: J. MURPHY
DESIGNED BY: S. WAGNER
REVISED BY:

PAGE 12 OF 15

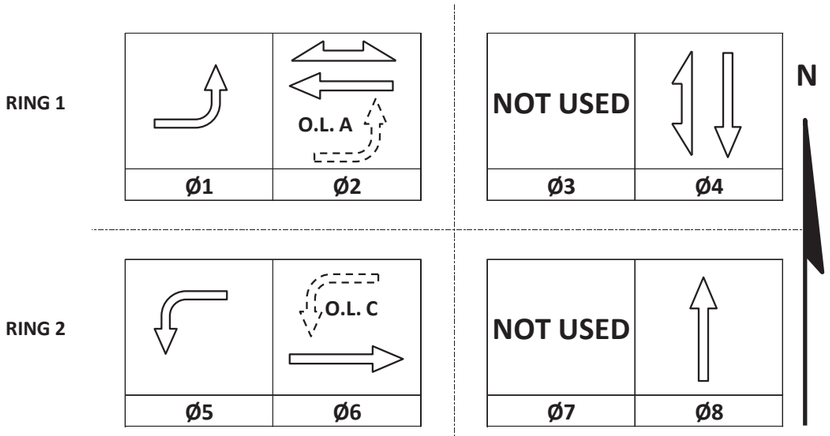
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1AB OUTSIDE	SHEET 261	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1180\S40-1180_TSTAGE1ABOUT_16.DWG
LAYOUT NAME - S40-1180_Tstage1ABOUT_PG1

PLOT DATE : 11/18/2020 7:54 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

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



DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL	DETECTOR OPERATION			PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
		CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY							

CONTROLLER LOGIC

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

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

TYPE OF COORDINATION	
NONE	
TBC	X
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 100 (W BROWN DEER RD) & N 64TH ST

VILLAGE OF BROWN DEER

MILWAUKEE COUNTY

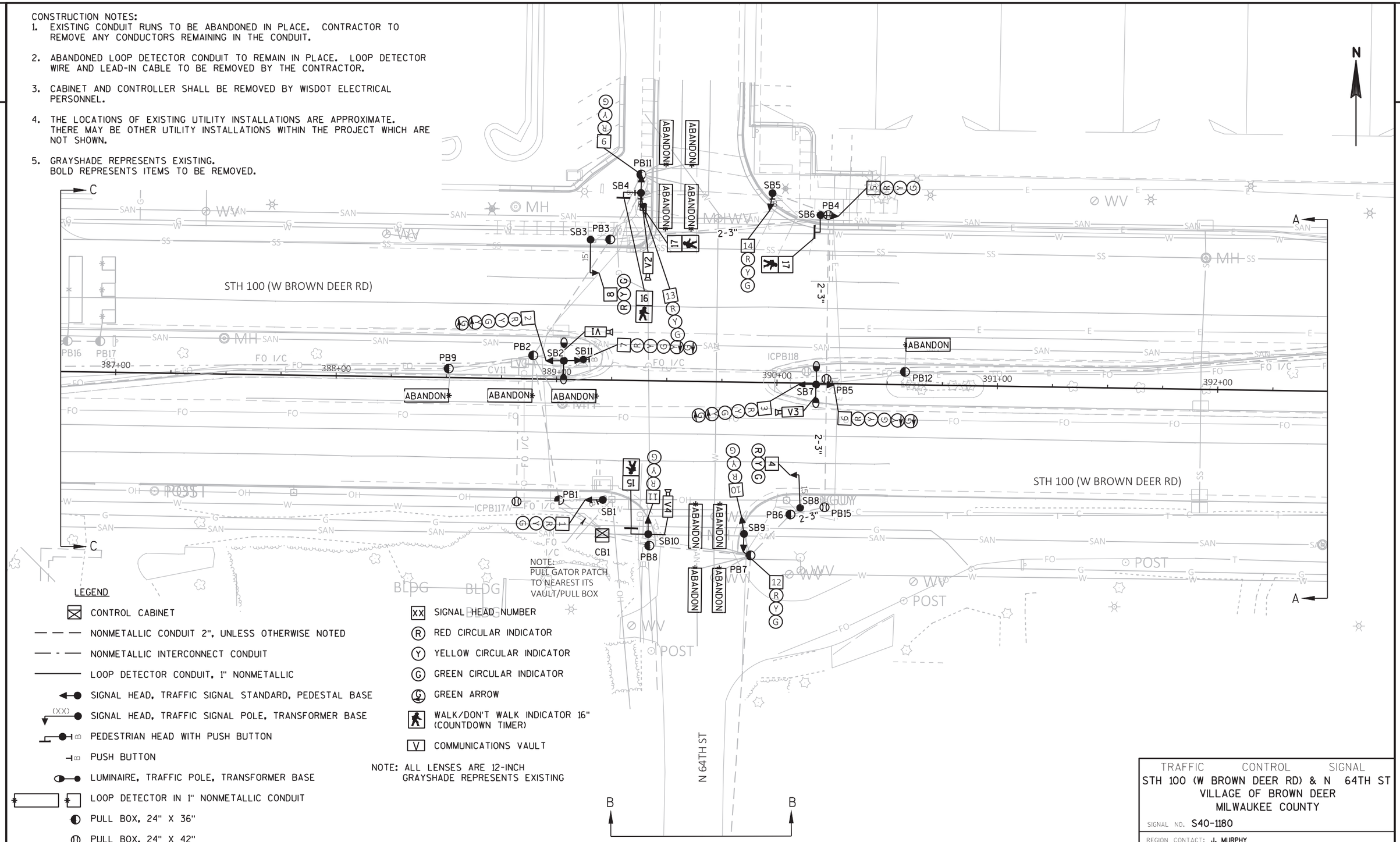
SIGNAL NO: S40-1180 CABINET TYPE: TEMP

CONTROLLER TYPE:

DATE: 11/2020 PAGE NUMBER: 4 OF 4

CONSTRUCTION NOTES:

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. CABINET AND CONTROLLER SHALL BE REMOVED BY WISDOT ELECTRICAL PERSONNEL.
4. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
5. GRAYSHADE REPRESENTS EXISTING.
   BOLD REPRESENTS ITEMS TO BE REMOVED.



LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- 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
- GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- V COMMUNICATIONS VAULT

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

TRAFFIC CONTROL SIGNAL
STH 100 (W BROWN DEER RD) & N 64TH ST
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

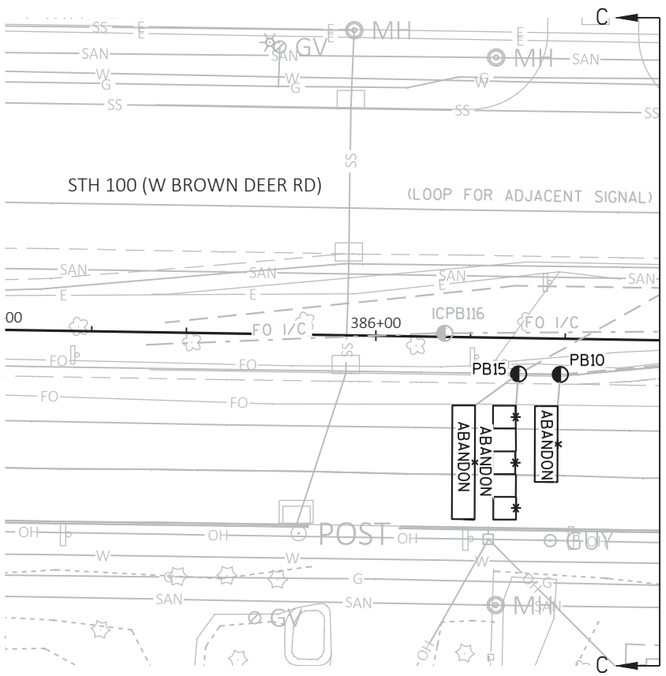
SIGNAL NO. S40-1180

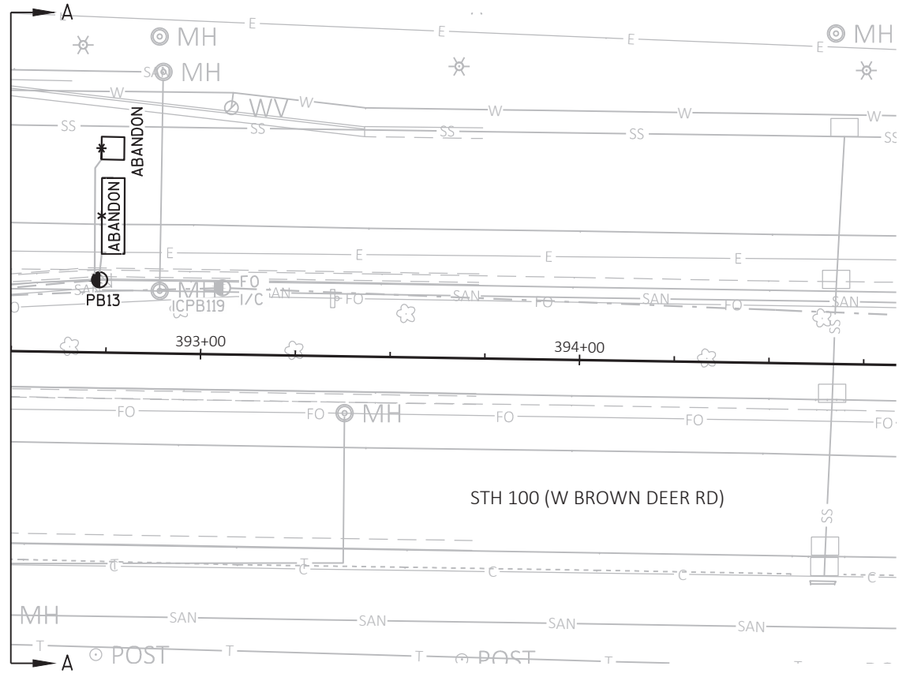
REGION CONTACT: J. MURPHY
DESIGNED BY: S. WAGNER
REVISED BY:

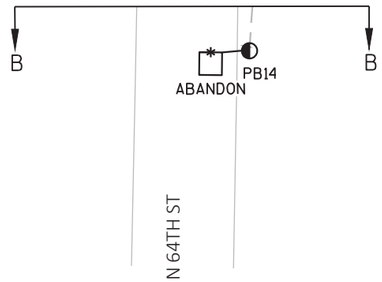
PAGE 1 OF 2

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 263	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1180\S40-1180_16_RM.DWG
LAYOUT NAME - S40-1180_RM_PG1
PLOT DATE : 9/17/2020 10:42 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT







N

TRAFFIC CONTROL SIGNAL
STH 100 (W BROWN DEER RD) & N 64TH ST
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1180

REGION CONTACT: J. MURPHY
DESIGNED BY: S. WAGNER
REVISED BY:

PAGE 2 OF 2

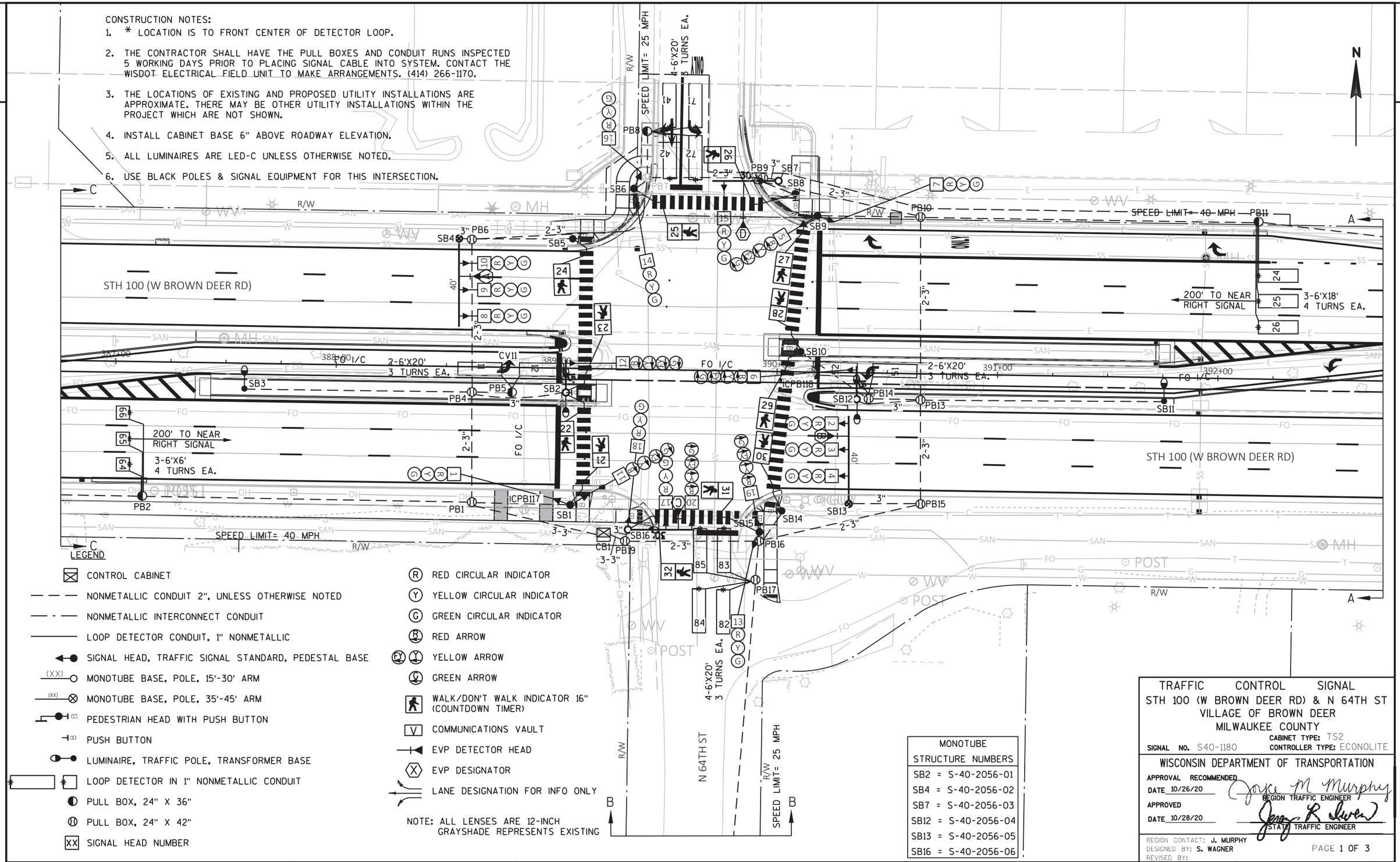
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 264	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1180\S40-1180_16_RM.DWG
LAYOUT NAME - S40-1180_RM_PG2

PLOT DATE : 9/17/2020 10:43 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : ##########

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 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 LUMINAIRES ARE LED-C UNLESS OTHERWISE NOTED.
6. USE BLACK POLES & SIGNAL EQUIPMENT FOR THIS INTERSECTION.



LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-45' ARM
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- 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
- RA RED ARROW
- YA YELLOW ARROW
- GA GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- V COMMUNICATIONS VAULT
- EVP DETECTOR HEAD
- X EVP DESIGNATOR
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING

MONOTUBE STRUCTURE NUMBERS	
SB2	S-40-2056-01
SB4	S-40-2056-02
SB7	S-40-2056-03
SB12	S-40-2056-04
SB13	S-40-2056-05
SB16	S-40-2056-06

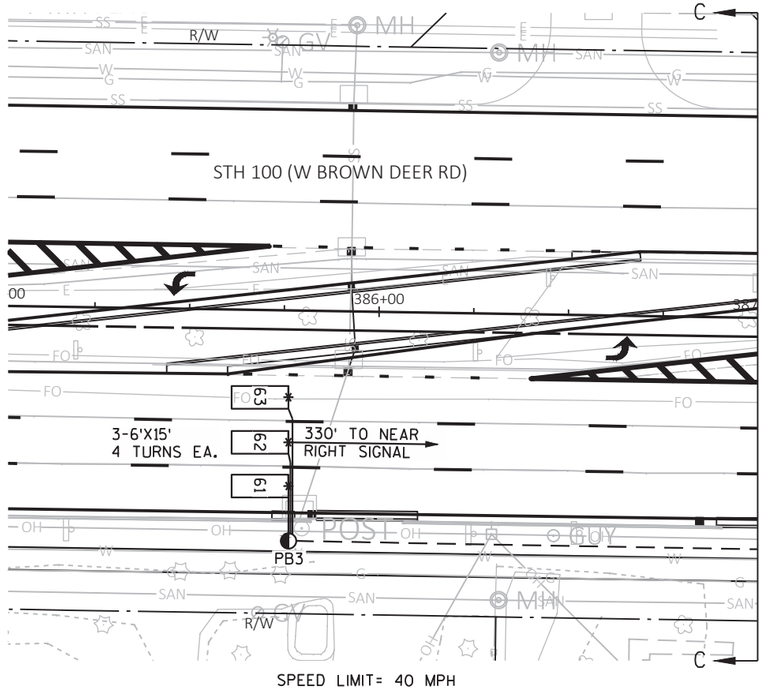
TRAFFIC CONTROL SIGNAL
STH 100 (W BROWN DEER RD) & N 64TH ST
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY
SIGNAL NO. S40-1180
CABINET TYPE: TS2
CONTROLLER TYPE: ECONOLITE

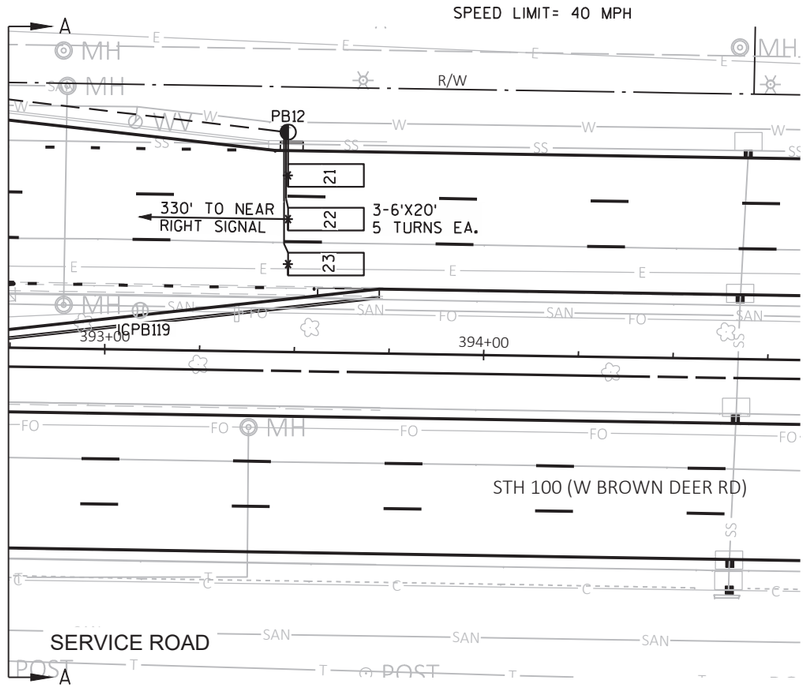
WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVAL RECOMMENDED
DATE 10/26/20 — Joyce M Murphy, REGION TRAFFIC ENGINEER
APPROVED
DATE 10/28/20 — STATE TRAFFIC ENGINEER

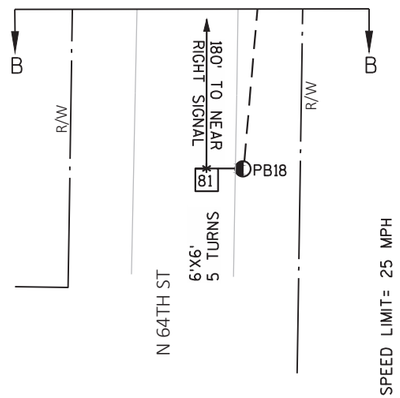
REGION CONTACT: J. MURPHY
DESIGNED BY: S. WAGNER
REVISED BY:

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 265	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1180\S40-1180_16.DWG
LAYOUT NAME - S40-1180_PG1
PLOT DATE : 11/18/2020 9:52 AM
PLOT BY : WAGNER, SCOTT H
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42







N

2

TRAFFIC CONTROL SIGNAL
STH 100 (W BROWN DEER RD) & N 64TH ST
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

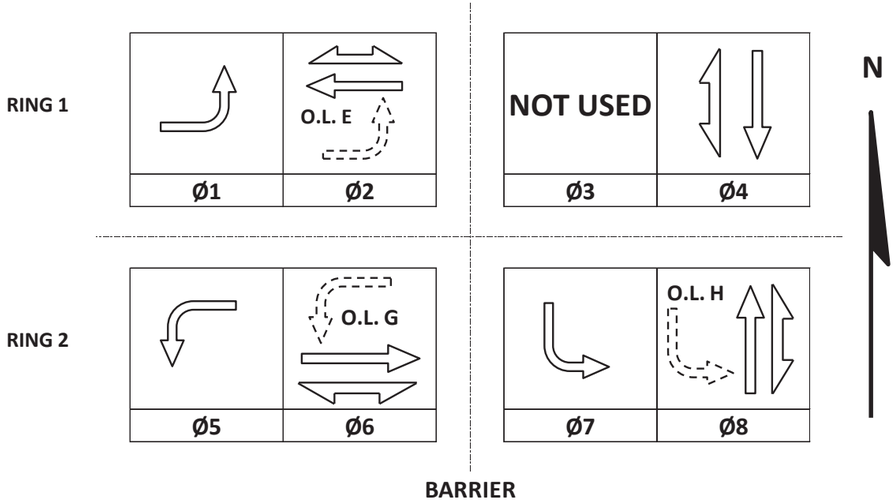
SIGNAL NO. S40-1180

REGION CONTACT: J. MURPHY
DESIGNED BY: S. WAGNER
REVISED BY:

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 266	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1180\S40-1180_16.DWG
LAYOUT NAME - S40-1180_PG2
PLOT DATE : 11/18/2020 9:53 AM
PLOT BY : WAGNER, SCOTT H
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	5,6	R ←
Ø2	7,8,9,10	R
Ø3		
Ø4	16,17,18	R
Ø5	11,12	R ←
Ø6	1,2,3,4	R
Ø7	19,20	R ←
Ø8	13,14,15	R
Ø2P	25,26	
Ø4P	21,22,23,24	
Ø6P	31,32	
Ø8P	27,28,29,30	
OLE	5,6	-
OLF		
OLG	11,12	-
OLH	19,20	-



CONTROLLER LOGIC

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

EMERGENCY VEHICLE PREEMPTION SEQUENCE

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

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

AFTER PREEMPTION SEQUENCE 4+7 OR 8+4, CONTROLLER SHALL RETURN TO PHASES 4+8.

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

TYPE OF COORDINATION		
NONE		
TBC		
TRAFFIC RESPONSIVE		X
ADAPTIVE		
*LOCATION OF MASTER CONTROLLER NO:	S-	
SIGNAL SYSTEM NO:	SS-	0015

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	X
TOMAR	
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	23	25	41	51	61	63	65	71	81	83	85				PLAN LOOP DETECTOR*(S)
CALLED PHASE	1	2	2	2	4	5	6	6	6	7	8	8	8				CALLED PHASE
CALL OPTION	X	X	X	X	X	X	X	X	X	X		X	X				CALL OPTION
DELAY TIME					X					X		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			X	X	X								USE ADDED INITIAL
CROSS SWITCH PHASE	2					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	24	26	42	52	62	64	66	72	82	84					PLAN LOOP DETECTOR*(S)
CALLED PHASE	1	2	2	2	4	5	6	6	6	7	8	8					CALLED PHASE
CALL OPTION	X	X	X	X	X	X	X	X	X	X	X	X					CALL OPTION
DELAY TIME					X					X	X	X					DELAY TIME
EXTENTION OPTION	X	X	X	X	X	X	X	X	X		X	X					EXTENTION OPTION
EXTEND TIME										X							EXTEND TIME
USE ADDED INITIAL		X	X	X			X	X	X								USE ADDED INITIAL
CROSS SWITCH PHASE	2					6				8							CROSS SWITCH PHASE

GENERAL NOTES:

1.

2.

3.

4.

STH 100 (W BROWN DEER RD) & N 64TH ST
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO: S40-1180 CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE
DATE: 11/1/2020 PAGE NUMBER: 3 OF 3

PROJECT ID:	2150-00-71
INTERSECTION:	STH 100 and 64TH ST

Signal Wire Color Coding	BLK - black	RED - red	GRN - green
	WHT - white	BLU - blue	ORG - orange

CB1 TO	AWG14 # OF CONDUCTORS	HEAD NO.	SIGNAL INDICATION WIRE COLOR									PED NEUTRAL	PED INPUT
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	<FLASHING YELLOW>	D/WALK	WALK		
SB1	12	1	RED	ORG	GRN								
		11				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		21								BLK	BLU		
		B										RED	WHT/BLK
SB2	12	12				RED	ORG	GRN	BLK/WHT				
		22								BLK	BLU		
		23								BLK	BLU		
		B										RED	WHT/BLK
SB4	12	8	RED	ORG	GRN								
		9	RED	ORG	GRN								
		10	RED	ORG	GRN								
SB5	7	24								BLK	BLU		
		B										RED	WHT/BLK
SB6	12	14	RED	ORG	GRN								
		16				RED/BLK	ORG/BLK	GRN/BLK					
		25								BLK	BLU		
		B										RED	WHT/BLK
SB7	12	15	RED	ORG	GRN								
SB8	7	26								BLK	BLU		
		B										RED	WHT/BLK
SB9	12	5				RED	ORG	GRN	BLK/WHT				
		7	RED/BLK	ORG/BLK	GRN/BLK								
		27								BLK	BLU		
		B										RED	WHT/BLK

2

SB10	7	28								BLK	BLU		
		29								BLK	BLU		
		B										RED	WHT/BLK
SB12	12	6				RED	ORG	GRN	BLK/WHT				
SB13	12	2	RED	ORG	GRN								
		3	RED	ORG	GRN								
		4	RED	ORG	GRN								
SB14	7	30								BLK	BLU		
		B										RED	WHT/BLK
SB15	12	13	RED	ORG	GRN								
		19				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		31								BLK	BLU		
		B										RED	WHT/BLK
SB16	12	17	RED	ORG	GRN								
		18	RED	ORG	GRN								
		20				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		32								BLK	BLU		
		B										RED	WHT/BLK

Equipment grounding conductor 10 AWG Green XLP

From	TO
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	SB11
SB11	SB12
SB12	SB13
SB13	SB14
SB14	SB15
SB15	SB16
SB16	CB1

Pull Box Bonding Jumper 10 AWG Green XLP

From	To
PB1	SB1
PB4	SB2
PB6	SB4
PB7	SB6
PB9	SB7
PB10	SB9
PB13	SB12
PB15	SB13
PB16	SB15
PB19	CB1

Lighting UF #12 w/ground

From	To
CB1	SB2
SB2	SB3
SB2	SB7
CB1	SB16
SB16	SB12
SB12	SB11

EVP CABLE

From	To
CB1	SB4 (HEAD A)
CB1	SB13 (HEAD B)
CB1	SB16 (HEAD C)
CB1	SB7 (HEAD D)

*Use the white conductor in the cable assembly as the grounded conductor for all traffic signal indications
*Ensure the grounded conductor in the feeder cable and the pole cables are both 18" longer than the ungrounded conductors.
*At the signal bases, connect one terminal from the pedestrian push buttons to the color indicated in the chart. Connect the other terminal to the grounded conducto
*Reconnect the grounding conductors wherever the circuit has been interrupted to ensure the grounding circuit is complete.
*Reserve the Blue/Black conductor in the cable assembly as the APS conductor for all push buttons

CONSTRUCTION NOTES:

1. FINAL LOCATION OF SIGNAL POLES AND SIGNAL HEADS SHALL BE DIRECTED BY THE ENGINEER.
2. 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.
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) 266-1170, 5 WORKING DAYS PRIOR TO BEGINNING ANY WORK AT THE INTERSECTION.
6. ANY KNOCKDOWNS TO PERMANENT/TEMPORARY SIGNAL EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR.
7. ALL LUMINAIRES ARE 250 HPS OR LED C.

LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- WOOD POST
- TEMPORARY LUMINAIRE
- SIGNAL HEAD (WITH BACKPLATE), OVERHEAD MOUNT
- PEDESTRIAN PUSH BUTTON WITH PEDESTRIAN HEAD
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- Y YELLOW ARROW
- G GREEN ARROW
- DIRECTION OF TRAFFIC
- WORK ZONE

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

N

STH 100 (W BROWN DEER RD)

PARK PLAZA CT

N 66TH ST

R/W

WP1 WP2 WP3 WP4 WP5 WP6 WP7

SUMMARY OF SELECTED ITEMS FOR INFORMATION ONLY	
QUANTITY	DESCRIPTION
4 EA	WOOD POLES, CLASS 4
625 LF	SPAN WIRE
3 EA	WOOD POST
18 EA	SIGNAL HEADS
2 EA	PEDESTRIAN HEADS
3 EA	PUSH BUTTONS
4 EA	LIGHTING LED-C OR 250W HPS
1	TEMPORARY SIGNAL CABINET
1	CONTROLLER AND CELL MODEM (STATE SUPPLIED)

* COVER AND DE-ENERGIZE PEDESTRIAN TRAFFIC SIGNAL FACE(S) IF PEDESTRIAN ACCESS IS NOT ALLOWED WITHIN THE WORK ZONE AND/OR SIDEWALK IS CLOSED.

TRAFFIC CONTROL SIGNAL
STH 100 (W BROWN DEER RD) & N 66TH ST
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1185

REGION CONTACT: J. MURPHY
DESIGNED BY: S. WAGNER
REVISED BY:

PAGE 13 OF 15

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL PLAN - PRECONSTRUCTION STAGE	SHEET 270	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1185\S40-1185_TSPRECON_16.DWG
LAYOUT NAME - S40-1185_TSPRECON_PG1

PLOT DATE : 10/22/2020 3:45 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- WOOD POST
- TEMPORARY LUMINAIRE
- SIGNAL HEAD (WITH BACKPLATE), OVERHEAD MOUNT
- PEDESTRIAN PUSH BUTTON WITH PEDESTRIAN HEAD
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- DIRECTION OF TRAFFIC
- WORK ZONE

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

N

R/W

PARK PLAZA CT

STH 100 (W BROWN DEER RD)

WP1 WP2 WP3 WP4

380 382 384 386

N 66TH ST

* COVER AND DE-ENERGIZE PEDESTRIAN TRAFFIC SIGNAL FACE(S) IF PEDESTRIAN ACCESS IS NOT ALLOWED WITHIN THE WORK ZONE AND/OR SIDEWALK IS CLOSED.

TRAFFIC CONTROL SIGNAL
STH 100 (W BROWN DEER RD) & N 66TH ST
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1185

REGION CONTACT: J. MURPHY
DESIGNED BY: S. WAGNER
REVISED BY:

PAGE 14 OF 15

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1AB INSIDE	SHEET 271	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1185\S40-1185_TSTAGE1ABIN_16.DWG
LAYOUT NAME - S40-1185_Tstage1AB_PG1

PLOT DATE : 10/22/2020 3:47 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- WOOD POST
- TEMPORARY LUMINAIRE
- SIGNAL HEAD (WITH BACKPLATE), OVERHEAD MOUNT
- PEDESTRIAN PUSH BUTTON WITH PEDESTRIAN HEAD
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- DIRECTION OF TRAFFIC
- WORK ZONE

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

N

STH 100 (W BROWN DEER RD)

PARK PLAZA CT

N 66TH ST

R/W

WP1 WP2 WP3 WP4

380 382 384 386

* COVER AND DE-ENERGIZE PEDESTRIAN TRAFFIC SIGNAL FACE(S) IF PEDESTRIAN ACCESS IS NOT ALLOWED WITHIN THE WORK ZONE AND/OR SIDEWALK IS CLOSED.

TRAFFIC CONTROL SIGNAL
STH 100 (W BROWN DEER RD) & N 66TH ST
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1185

REGION CONTACT: J. MURPHY
DESIGNED BY: S. WAGNER
REVISED BY:

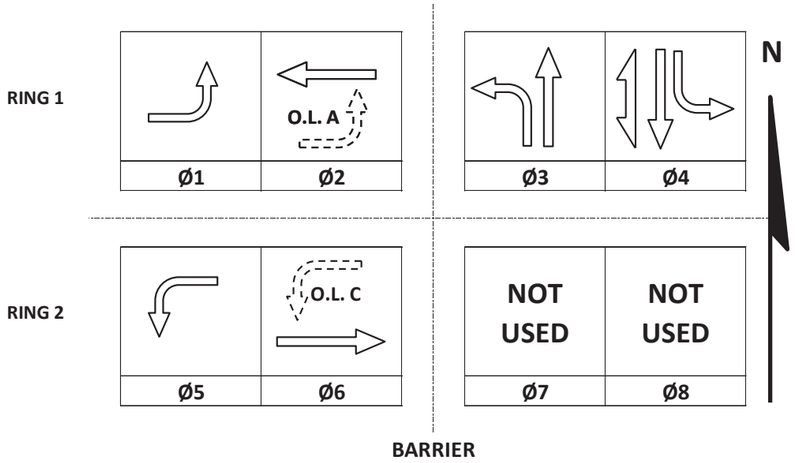
PAGE 15 OF 15

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1AB OUTSIDE	SHEET 272	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1185\S40-1185_TSTAGE1ABOUT_16.DWG
LAYOUT NAME - S40-1185_Tstage1ABOUT_PG1

PLOT DATE : 10/22/2020 3:48 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

	HEAD NUMBERS	FLASH
Ø1	5,6	-
Ø2	7,8,9,10,11,12	R
Ø3	13,14,15	R
Ø4	16,17,18	R
Ø5	11,12	-
Ø6	1,2,3,4,5,6	R
Ø7		
Ø8		
Ø2P		
Ø4P	19,20	
Ø6P		
Ø8P		
OLA	5,6	R ←
OLB		
OLC	11,12	R ←
OLD		

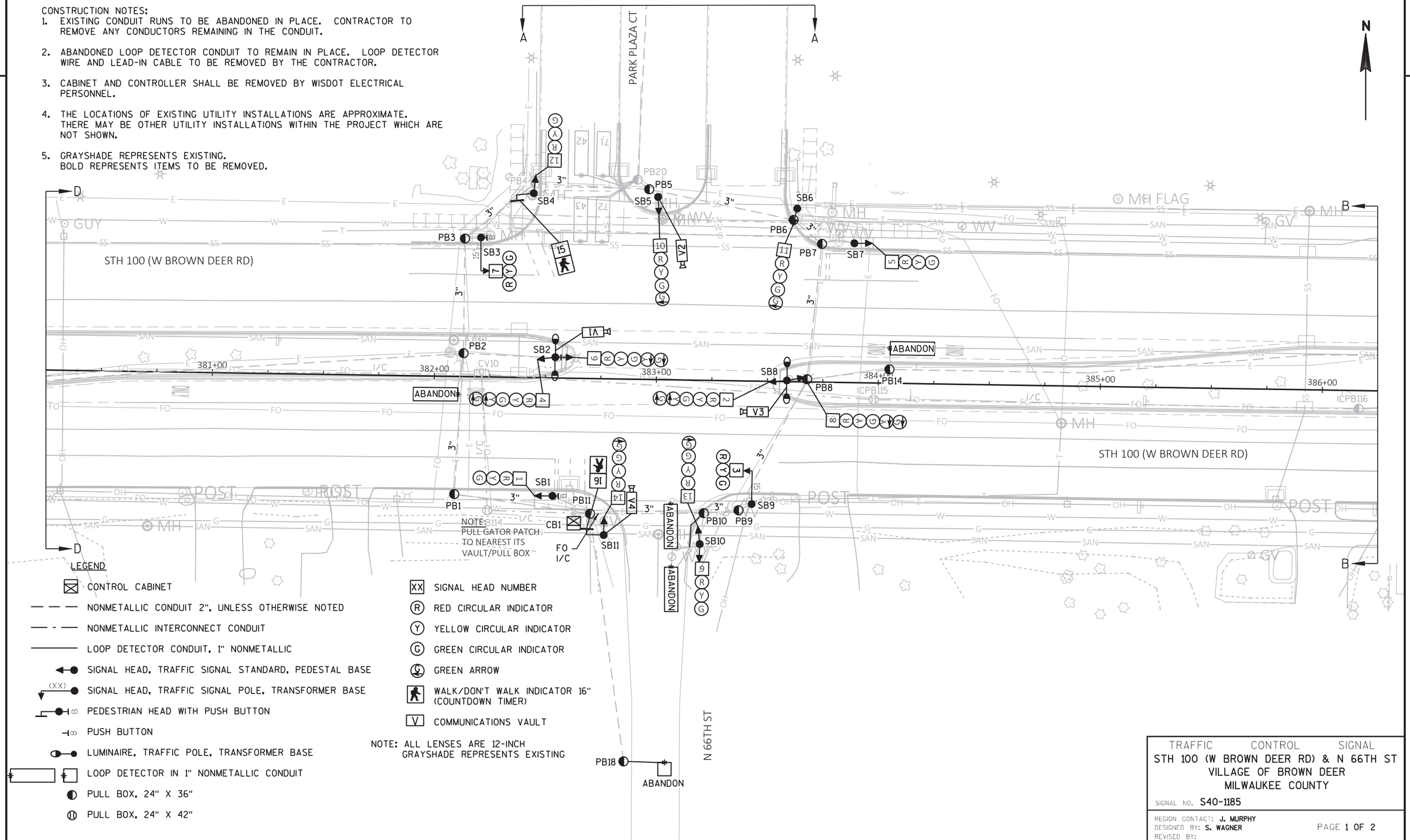


DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL	DETECTOR OPERATION			PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
		CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY							

CONSTRUCTION NOTES:

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. CABINET AND CONTROLLER SHALL BE REMOVED BY WISDOT ELECTRICAL PERSONNEL.
4. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
5. GRAYSHADE REPRESENTS EXISTING. BOLD REPRESENTS ITEMS TO BE REMOVED.



LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- 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
- GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- (V) COMMUNICATIONS VAULT

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

TRAFFIC CONTROL SIGNAL
STH 100 (W BROWN DEER RD) & N 66TH ST
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

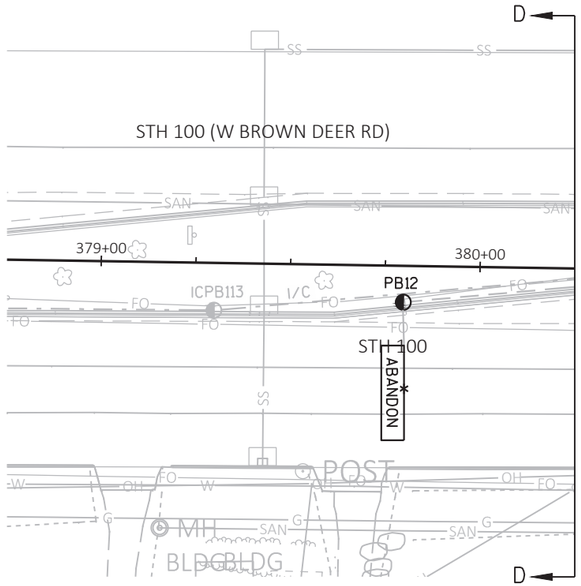
SIGNAL NO. S40-1185

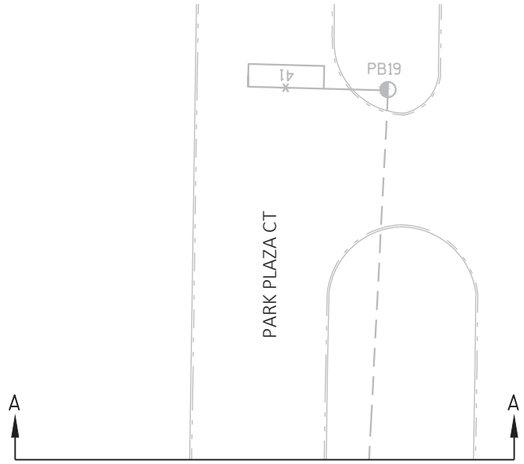
REGION CONTACT: J. MURPHY
DESIGNED BY: S. WAGNER
REVISED BY:

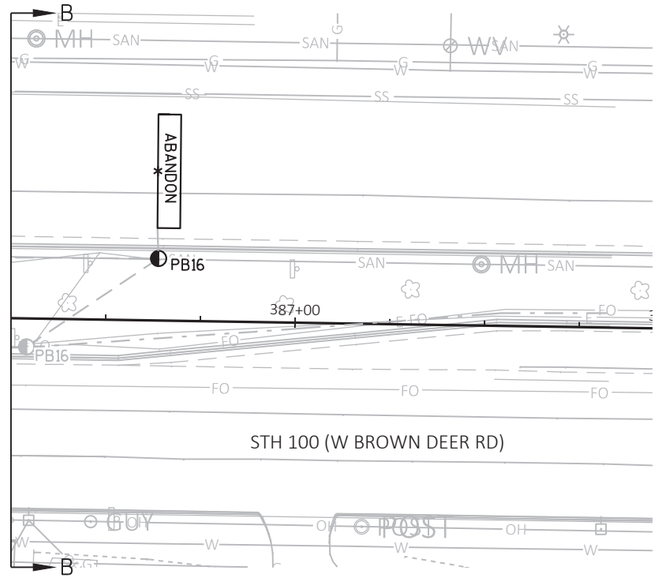
PAGE 1 OF 2

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 274	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1185\S40-1185_RM_16.DWG
LAYOUT NAME - S40-1185_RM_PG1
PLOT DATE : 9/17/2020 10:45 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42







N

2

TRAFFIC CONTROL SIGNAL
STH 100 (W BROWN DEER RD) & N 66TH ST
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1185

REGION CONTACT: J. MURPHY
DESIGNED BY: S. WAGNER
REVISED BY:

PAGE 2 OF 2

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 275	E

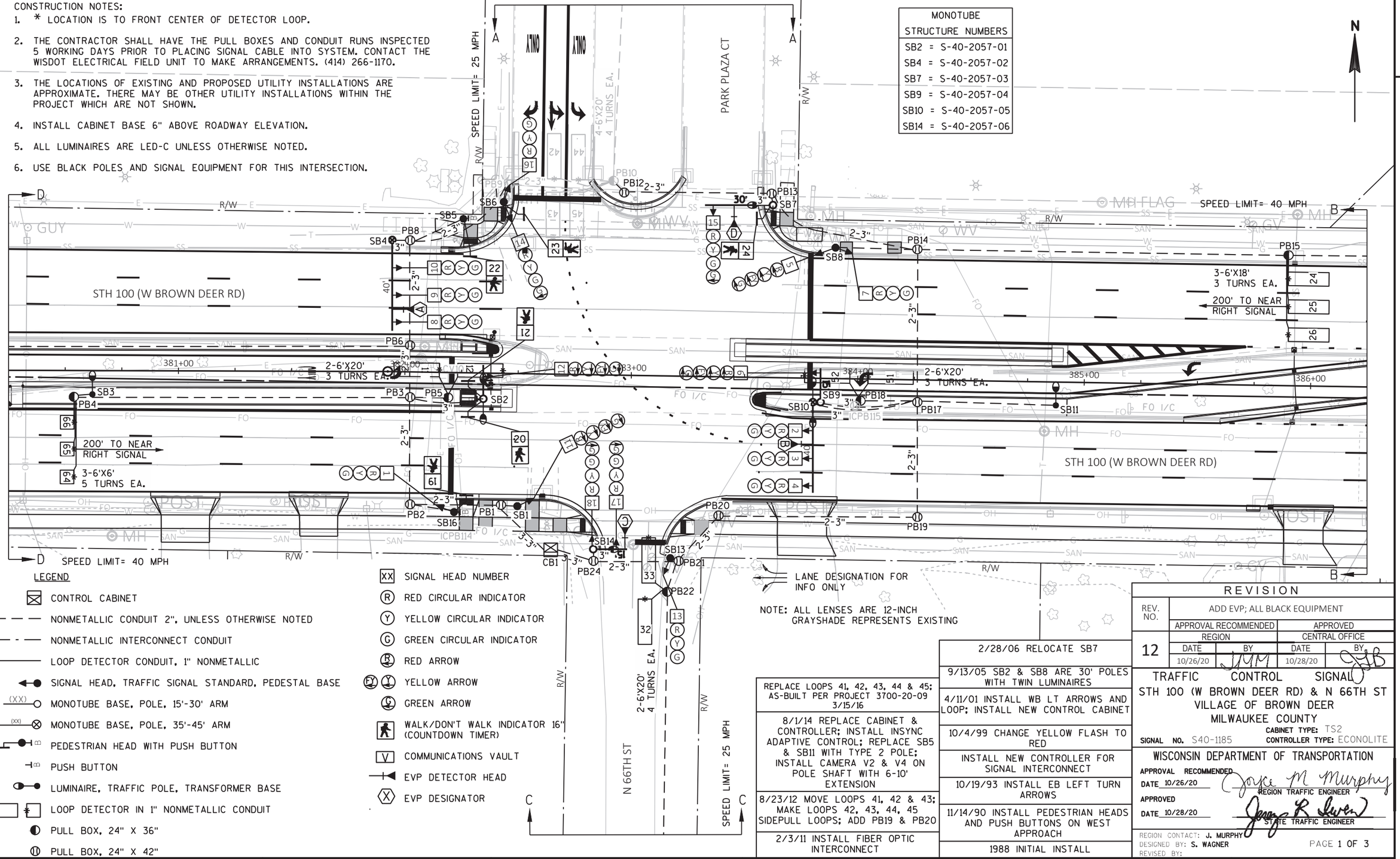
FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1185\S40-1185_RM_16.DWG
LAYOUT NAME - S40-1185_RM_PG2

PLOT DATE : 9/17/2020 10:46 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : ##########

CONSTRUCTION NOTES:

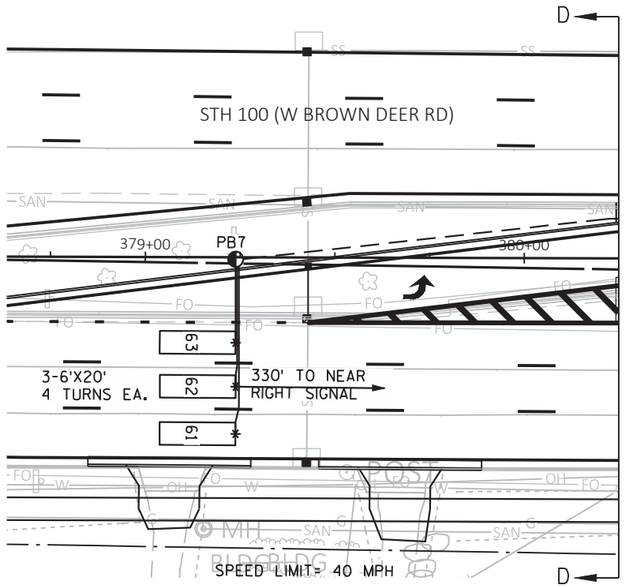
1. * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP.
2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. CONTACT THE WISDOT ELECTRICAL FIELD UNIT TO MAKE ARRANGEMENTS. (414) 266-1170.
3. THE LOCATIONS OF EXISTING AND PROPOSED 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 LUMINAIRES ARE LED-C UNLESS OTHERWISE NOTED.
6. USE BLACK POLES AND SIGNAL EQUIPMENT FOR THIS INTERSECTION.

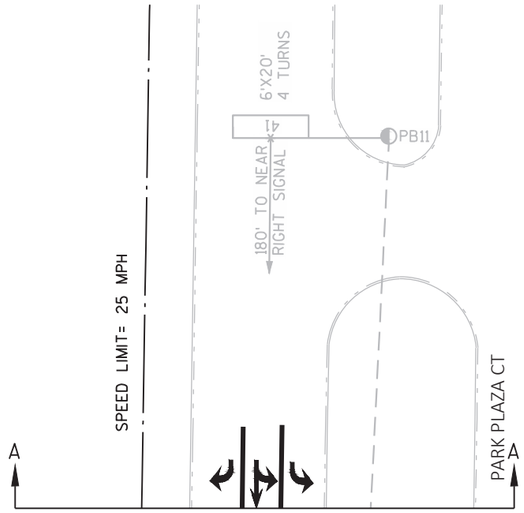
MONOTUBE STRUCTURE NUMBERS
SB2 = S-40-2057-01
SB4 = S-40-2057-02
SB7 = S-40-2057-03
SB9 = S-40-2057-04
SB10 = S-40-2057-05
SB14 = S-40-2057-06

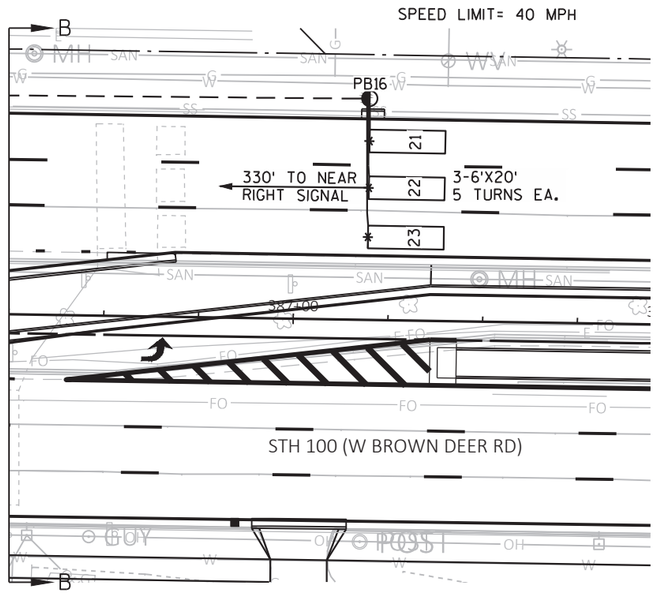

STH 100 (W BROWN DEER RD)
PARK PLAZA CT
N 66TH ST
SPEED LIMIT= 25 MPH
SPEED LIMIT= 40 MPH
ONLY
4-6'X20' 4 TURNS EA.
2-6'X20' 3 TURNS EA.
3-6'X18' 3 TURNS EA.
3-6'X6' 5 TURNS EA.
200' TO NEAR RIGHT SIGNAL
LANE DESIGNATION FOR INFO ONLY
NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
SB1 SB2 SB3 SB4 SB5 SB6 SB7 SB8 SB9 SB10 SB11 SB13 SB14 SB16
PB1 PB2 PB3 PB4 PB5 PB6 PB8 PB9 PB10 PB12 PB13 PB14 PB15 PB17 PB18 PB19 PB20 PB21 PB22 PB24
CB1
ICPB114 ICPB115
381+00 382+00 383+00 384+00 385+00 386+00
MH GUY GV MH MH MH

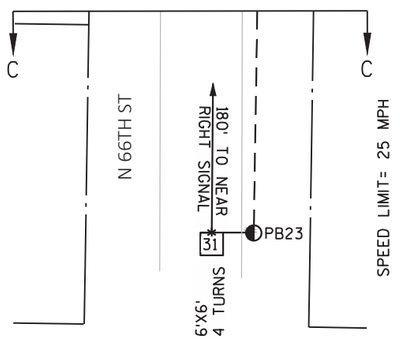
2

N









TRAFFIC CONTROL SIGNAL

STH 100 (W BROWN DEER RD) & N 66TH ST
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

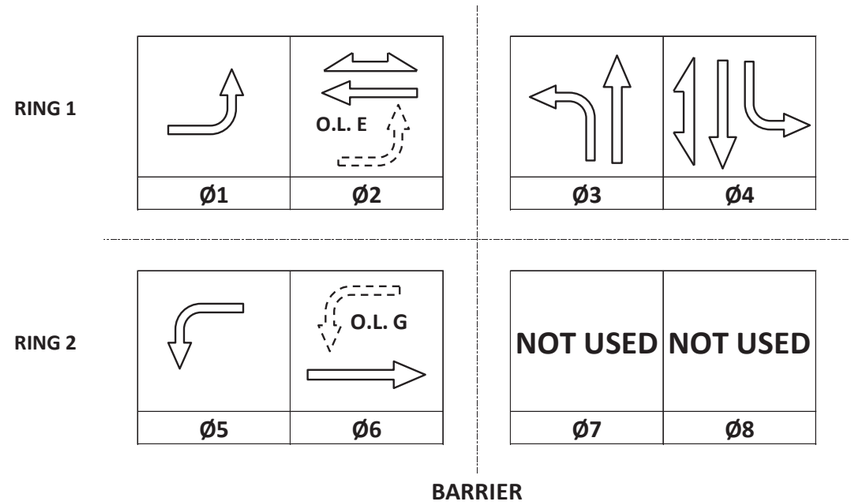
SIGNAL NO. S40-1185

REGION CONTACT: J. MURPHY
DESIGNED BY: S. WAGNER
REVISED BY:

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 277	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1185\S40-1185_16.DWG
LAYOUT NAME - S40-1185_PG2
PLOT DATE : 11/18/2020 9:58 AM
PLOT BY : WAGNER, SCOTT H
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

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



CONTROLLER LOGIC

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

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT	←	→	↓	↑
PHASE	2+5	6+1	4	3

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

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

TYPE OF COORDINATION		
NONE		
TBC		
TRAFFIC RESPONSIVE		X
ADAPTIVE		
*LOCATION OF MASTER CONTROLLER NO:	S-	
SIGNAL SYSTEM NO:	SS-	0015

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	X
TOMAR	
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	23	25	31	33	42	44	51	61	63	65					PLAN LOOP DETECTOR*(S)
CALLED PHASE	1	2	2	2	3	3	4	4	5	6	6	6					CALLED PHASE
CALL OPTION	X	X	X	X		X	X	X	X	X	X	X					CALL OPTION
DELAY TIME																	DELAY TIME
EXTENTION OPTION	X	X	X	X	X	X	X	X	X	X	X	X					EXTENTION OPTION
EXTEND TIME					X												EXTEND TIME
USE ADDED INITIAL		X	X	X						X	X	X					USE ADDED INITIAL
CROSS SWITCH PHASE	2								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	24	26	32	41	43	45	52	62	64	66					PLAN LOOP DETECTOR*(S)
CALLED PHASE	1	2	2	2	3	4	4	4	5	6	6	6					CALLED PHASE
CALL OPTION	X	X	X	X	X		X	X	X	X	X	X					CALL OPTION
DELAY TIME																	DELAY TIME
EXTENTION OPTION	X	X	X	X	X	X	X	X	X	X	X	X					EXTENTION OPTION
EXTEND TIME						X											EXTEND TIME
USE ADDED INITIAL		X	X	X						X	X	X					USE ADDED INITIAL
CROSS SWITCH PHASE	2								6								CROSS SWITCH PHASE

GENERAL NOTES:

1.
2.
3.
4.

STH 100 (W BROWN DEER RD) & N 66TH ST
VILLAGE OR BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO: S40-1185 CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE
DATE: 11/1/2020 PAGE NUMBER: 3 OF 3

PROJECT ID:	2150-00-71
INTERSECTION:	STH 100 & 66TH ST

Signal Wire Color Coding	BLK - black	RED - red	GRN - green
	WHT - white	BLU - blue	ORG - orange

CB1 TO	AWG14 # OF CONDUCTORS	HEAD NO.	SIGNAL INDICATION WIRE COLOR									PED NEUTRAL	PED INPUT
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	<FLASHING YELLOW>	D/WALK	WALK		
SB1	12	11				RED	ORG	GRN	BLK/WHT				
SB2	12	12				RED	ORG	GRN	BLK/WHT				
		20								BLK	BLU		
		21								BLK	BLU		
		B										RED	WHT/BLK
SB4	12	8	RED	ORG	GRN								
		9	RED	ORG	GRN								
		10	RED	ORG	GRN								
SB5	7	22								BLK	BLU		
		B										RED	WHT/BLK
SB6	12	14	RED	ORG	GRN			GRN					
		16				RED/BLK	ORG/BLK	GRN/BLK					
		23								BLK	BLU		
		B										RED	WHT/BLK
SB7	12	15	RED	ORG	GRN			GRN					
		24								BLK	BLU		
		B										RED	WHT/BLK
SB8	12	5				RED	ORG	GRN	BLK/WHT				
		7	RED/BLK	ORG/BLK	GRN/BLK								
SB9	12	9				RED	ORG	GRN	BLK/WHT				
SB10	12	2	RED	ORG	GRN								
		3	RED	ORG	GRN								
		4	RED	ORG	GRN								
SB13	12	13	RED	ORG	GRN								
SB14	12	17	RED	ORG	GRN			GRN					
		18	RED	ORG	GRN			GRN					
SB16	12	1	RED	ORG	GRN								
		19								BLK	BLU		
		B										RED	WHT/BLK

Equipment grounding conductor 10 AWG Green XLP	
From	TO
CB1	SB1
SB1	SB16
SB16	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	SB11
SB11	SB13
SB13	SB14
SB14	CB1

Pull Box Bonding Jumper 10 AWG Green XLP	
From	To
PB1	SB1
PB2	SB16
PB3	SB2
PB6	PB3
PB8	SB4
PB9	SB6
PB12	SB7
PB13	SB8
PB16	SB9
PB18	PB16
PB19	PB20
PB20	SB13
PB23	SB14

Lighting UF #12 w/ground	
From	To
CB1	SB2
SB2	SB3
SB2	SB7
CB1	SB14
SB14	SB10
SB10	SB11

EVP CABLE	
From	To
CB1	SB4 (HEAD A)
CB1	SB10 (HEAD B)
CB1	SB14 (HEAD C)
CB1	SB 7 (HEAD D)

***Use the white conductor in the cable assembly as the grounded conductor for all traffic signal indications**
***Ensure the grounded conductor in the feeder cable and the pole cables are both 18" longer than the ungrounded conductors.**
***At the signal bases, connect one terminal from the pedestrian push buttons to the color indicated in the chart. Connect the other terminal to the grounded conductor.**
***Reconnect the grounding conductors wherever the circuit has been interrupted to ensure the grounding circuit is complete.**
***Reserve the Blue/Black conductor in the cable assembly as the APS conductor for all push buttons**

2

LEGEND

NONMETALLIC INTERCONNECT CONDUIT 2", UNLESS OTHERWISE NOTED

COMMUNICATIONS VAULT

CONTROL CABINET

PULL BOX, 24" X 42"

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING INTERCONNECT CABLE INTO SYSTEM. CONTACT THE WISDOT ELECTRICAL UNIT AT (414 266-1170 TO MAKE ARRANGEMENTS.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. LEAVE 100-FEET OF FIBER OPTIC CABLE COILED IN EACH COMMUNICATIONS VAULT, LEAVE 30-FEET OF FIBER OPTIC CABLE COILED IN EACH PULL BOX.

N

SPEED LIMIT= 35 MPH

60TH STREET

CB1 (S40-1125)

45'

SPEED LIMIT= 40 MPH

STH 100

DISCONNECT AND PULL EXISTING PATCH CABLE FROM SIGNAL CABINET TO CV12 FOR DURATION OF CONSTRUCTION

40'

400+00

401+00

402+00

403+00

404+00

405+00

406+00

ICPB125

FO I/C

CV12

ONLY

XXXX XXXX

60TH STREET

SPEED LIMIT= 35 MPH

TRAFFIC CONTROL SIGNAL

STH 100 & 60TH STREET
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1125

REGION CONTACT: J. MURPHY
DESIGNED BY:
REVISED BY: S. WAGNER

PAGE 1 OF 1

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT PLANS	SHEET 281	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\INTERCONNECT\S40-1125_IC.DWG
LAYOUT NAME - S40-1125_IC

PLOT DATE : 9/2/2020 9:59 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

NONMETALLIC INTERCONNECT CONDUIT 2", UNLESS OTHERWISE NOTED

COMMUNICATIONS VAULT

CONTROL CABINET

PULL BOX, 24" X 42"

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING INTERCONNECT CABLE INTO SYSTEM. CONTACT THE WISDOT ELECTRICAL UNIT AT (414 266-1170 TO MAKE ARRANGEMENTS.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. LEAVE 100-FEET OF FIBER OPTIC CABLE COILED IN EACH COMMUNICATIONS VAULT, LEAVE 30-FEET OF FIBER OPTIC CABLE COILED IN EACH PULL BOX.

N

SPEED LIMIT= 25 MPH

ONLY

ONLY

XXXX

40'

5'

SPEED LIMIT= 40 MPH

STH 100

100499
694.717
NL 10" PVC EASTERLY DEPTH = 3.35'

335+00

336+00

337+00

338+00

339+00

340+00

CV8

DISCONNECT AND PULL EXISTING PATCH CABLE FROM SIGNAL CABINET TO CV8 FOR DURATION OF CONSTRUCTION

ICPB104

45'

CB1 (S40-1145)

SPEED LIMIT= 40 MPH

SERVITE DR

XXXX XXXX XXXX

ONLY

ONLY

SPEED LIMIT= 25 MPH

TRAFFIC CONTROL SIGNAL

STH 100 & SERVITE DR
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1145

REGION CONTACT: J. MURPHY
DESIGNED BY:
REVISED BY: S. WAGNER

PAGE 1 OF 1

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 282	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\INTERCONNECT\S40-1145_IC.DWG
LAYOUT NAME - S40-1145_IC

PLOT DATE : 9/2/2020 10:01 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- NONMETALLIC INTERCONNECT CONDUIT 2", UNLESS OTHERWISE NOTED
- COMMUNICATIONS VAULT
- CONTROL CABINET
- PULL BOX, 24" X 42"

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING INTERCONNECT CABLE INTO SYSTEM. CONTACT THE WISDOT ELECTRICAL UNIT AT (414 266-1170 TO MAKE ARRANGEMENTS.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. LEAVE 100-FEET OF FIBER OPTIC CABLE COILED IN EACH COMMUNICATIONS VAULT, LEAVE 30-FEET OF FIBER OPTIC CABLE COILED IN EACH PULL BOX.

N

85TH STREET

SPEED LIMIT= 25 MPH

SPEED LIMIT= 40 MPH

STH 100

317+00

318+00

320+00

321+00

322+00

ICPB99

ICPB100

CV7

CB1 (S40-1146)

30'

45'

35'

20'

FO I/C

DISCONNECT AND PULL EXISTING PATCH CABLE FROM SIGNAL CABINET TO CV7 FOR DURATION OF CONSTRUCTION

TRANSFORMER PAD

TRAFFIC CONTROL SIGNAL
STH 100 & 85TH STREET
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1146

REGION CONTACT: J. MURPHY
DESIGNED BY:
REVISED BY: S. WAGNER

PAGE 1 OF 1

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 283	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\INTERCONNECT\S40-1146_IC.DWG
LAYOUT NAME - S40-1146_IC

PLOT DATE : 9/2/2020 10:03 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

NONMETALLIC INTERCONNECT CONDUIT 2", UNLESS OTHERWISE NOTED

COMMUNICATIONS VAULT

CONTROL CABINET

PULL BOX, 24" X 42"

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING INTERCONNECT CABLE INTO SYSTEM. CONTACT THE WISDOT ELECTRICAL UNIT AT (414 266-1170 TO MAKE ARRANGEMENTS.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. LEAVE 100-FEET OF FIBER OPTIC CABLE COILED IN EACH COMMUNICATIONS VAULT, LEAVE 30-FEET OF FIBER OPTIC CABLE COILED IN EACH PULL BOX.

N

SPEED LIMIT= 30 MPH

91ST STREET

ONLY

XXXX XXXX

STH 100

PI: 296+74.57

294+00

295+00

296+00

297+00

298+00

299+00

SPEED LIMIT= 40 MPH

DISCONNECT AND PULL EXISTING PATCH CABLE FROM SIGNAL CABINET TO CV5 FOR DURATION OF CONSTRUCTION

CB1 (S40-1148)

XXXX

XXXX XXXX

SPEED LIMIT= 40 MPH

TRAFFIC CONTROL SIGNAL

STH 100 & 91ST STREET
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1148

REGION CONTACT: J. MURPHY
DESIGNED BY:
REVISED BY: S. WAGNER

PAGE 1 OF 1

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 284	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\INTERCONNECT\S40-1148_IC.DWG
LAYOUT NAME - S40-1148_IC

PLOT DATE : 9/2/2020 10:04 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- NONMETALLIC INTERCONNECT CONDUIT 2", UNLESS OTHERWISE NOTED
- COMMUNICATIONS VAULT
- CONTROL CABINET
- PULL BOX, 24" X 42"

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING INTERCONNECT CABLE INTO SYSTEM. CONTACT THE WISDOT ELECTRICAL UNIT AT (414 266-1170 TO MAKE ARRANGEMENTS.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. LEAVE 100-FEET OF FIBER OPTIC CABLE COILED IN EACH COMMUNICATIONS VAULT, LEAVE 30-FEET OF FIBER OPTIC CABLE COILED IN EACH PULL BOX.

N

2

SPEED LIMIT= 25 MPH

STH 100

DISCONNECT AND PULL EXISTING PATCH CABLE FROM SIGNAL CABINET TO CV11 FOR DURATION OF CONSTRUCTION

CV11

ICPB118

ICPB117

CB1 (S40-1180)

SPEED LIMIT= 40 MPH

387+00

388+00

389+00

390+00

391+00

392+00

FO I/C

XXXX XXXX

64TH STREET

SPEED LIMIT= 25 MPH

TRAFFIC CONTROL SIGNAL
STH 100 & 64TH STREET
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1180

REGION CONTACT: J. MURPHY
DESIGNED BY:
REVISED BY: S. WAGNER

PAGE 1 OF 1

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 285	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\INTERCONNECT\S40-1180_IC.DWG
LAYOUT NAME - S40-1180_IC

PLOT DATE : 9/2/2020 10:06 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- NONMETALLIC INTERCONNECT CONDUIT 2", UNLESS OTHERWISE NOTED
- COMMUNICATIONS VAULT
- CONTROL CABINET
- PULL BOX, 24" X 42"

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING INTERCONNECT CABLE INTO SYSTEM. CONTACT THE WISDOT ELECTRICAL UNIT AT (414 266-1170 TO MAKE ARRANGEMENTS.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. LEAVE 100-FEET OF FIBER OPTIC CABLE COILED IN EACH COMMUNICATIONS VAULT, LEAVE 30-FEET OF FIBER OPTIC CABLE COILED IN EACH PULL BOX.

N

SPEED LIMIT= 25 MPH

PARK PLAZA CT

ONLY

ONLY

PB10

PB9

30'

XXXXX XXXX

SPEED LIMIT= 40 MPH

STH 100

DISCONNECT AND PULL EXISTING PATCH CABLE FROM SIGNAL CABINET TO CV10 FOR DURATION OF CONSTRUCTION

40'

381+00

382+00

383+00

384+00

385+00

386+00

FO I/C

ICPB115

ICPB114

CB1 (S40-1185)

XXXX

SPEED LIMIT= 40 MPH

STH 100

66TH STREET

SPEED LIMIT= 25 MPH

TRAFFIC CONTROL SIGNAL
STH 100 & 66TH STREET
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1185

REGION CONTACT: J. MURPHY
DESIGNED BY:
REVISED BY: S. WAGNER

PAGE 1 OF 1

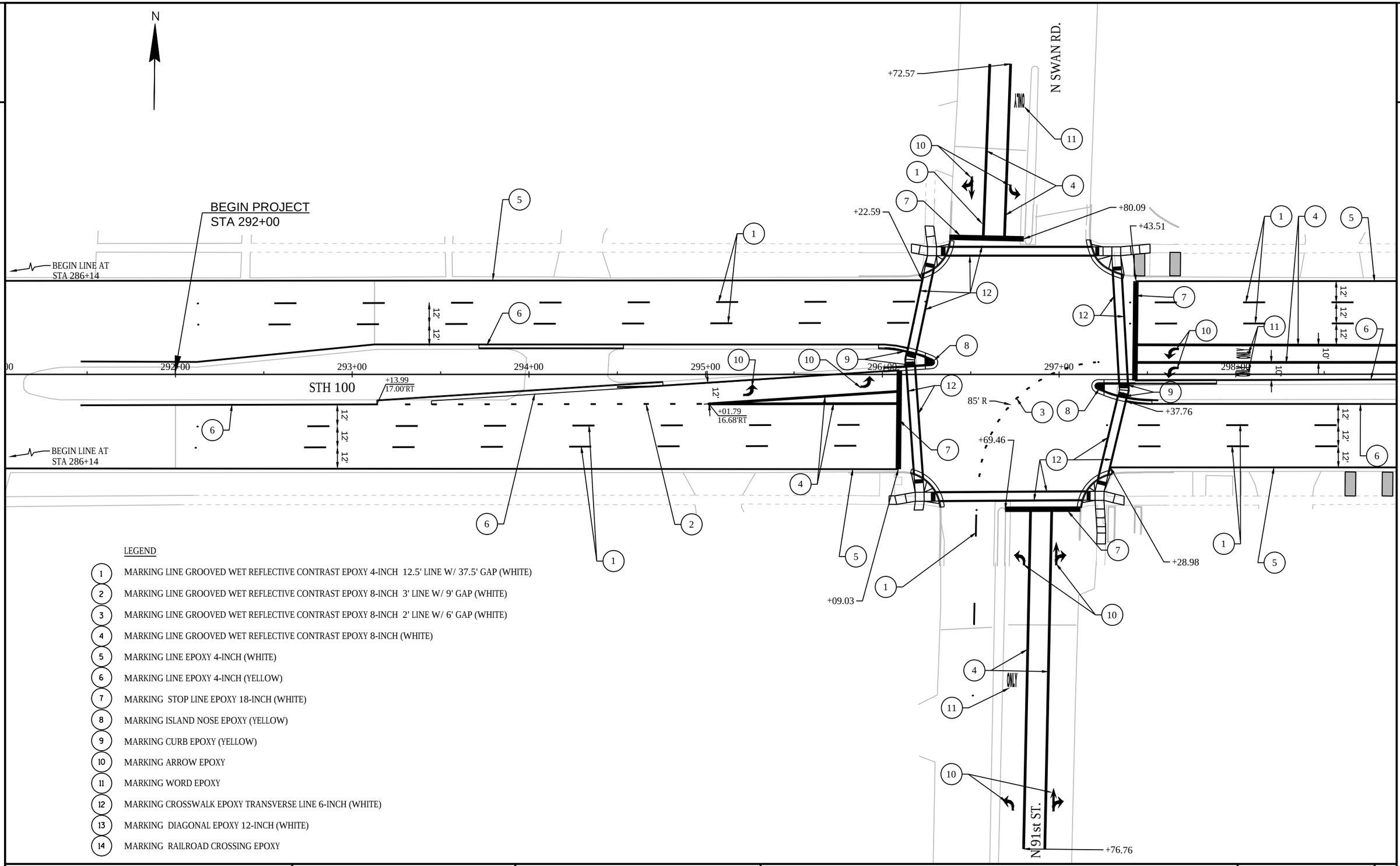
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 286	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\INTERCONNECT\S40-1185_IC.DWG
LAYOUT NAME - S40-1185_IC

PLOT DATE : 9/2/2020 10:08 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



LEGEND

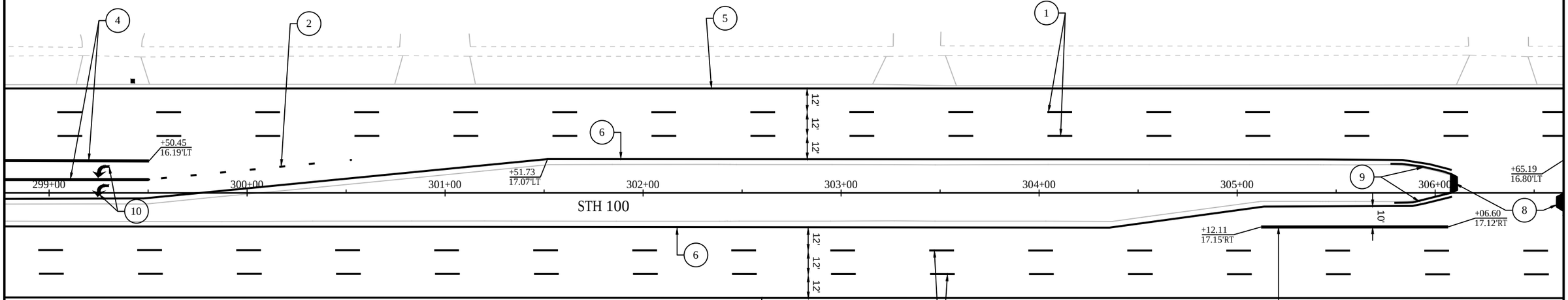
1. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 4-INCH 12.5' LINE W/ 37.5' GAP (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH 3' LINE W/ 9' GAP (WHITE)
3. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH 2' LINE W/ 6' GAP (WHITE)
4. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE EPOXY 4-INCH (WHITE)
6. MARKING LINE EPOXY 4-INCH (YELLOW)
7. MARKING STOP LINE EPOXY 18-INCH (WHITE)
8. MARKING ISLAND NOSE EPOXY (YELLOW)
9. MARKING CURB EPOXY (YELLOW)
10. MARKING ARROW EPOXY
11. MARKING WORD EPOXY
12. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
13. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
14. MARKING RAILROAD CROSSING EPOXY

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 287	E

FILE NAME : N:\PDS\C3D\215000001\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 1_PM
PLOT DATE : 11/4/2020 2:49 PM
PLOT BY : SCHMIDT, JUDENE M
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 42

2

N

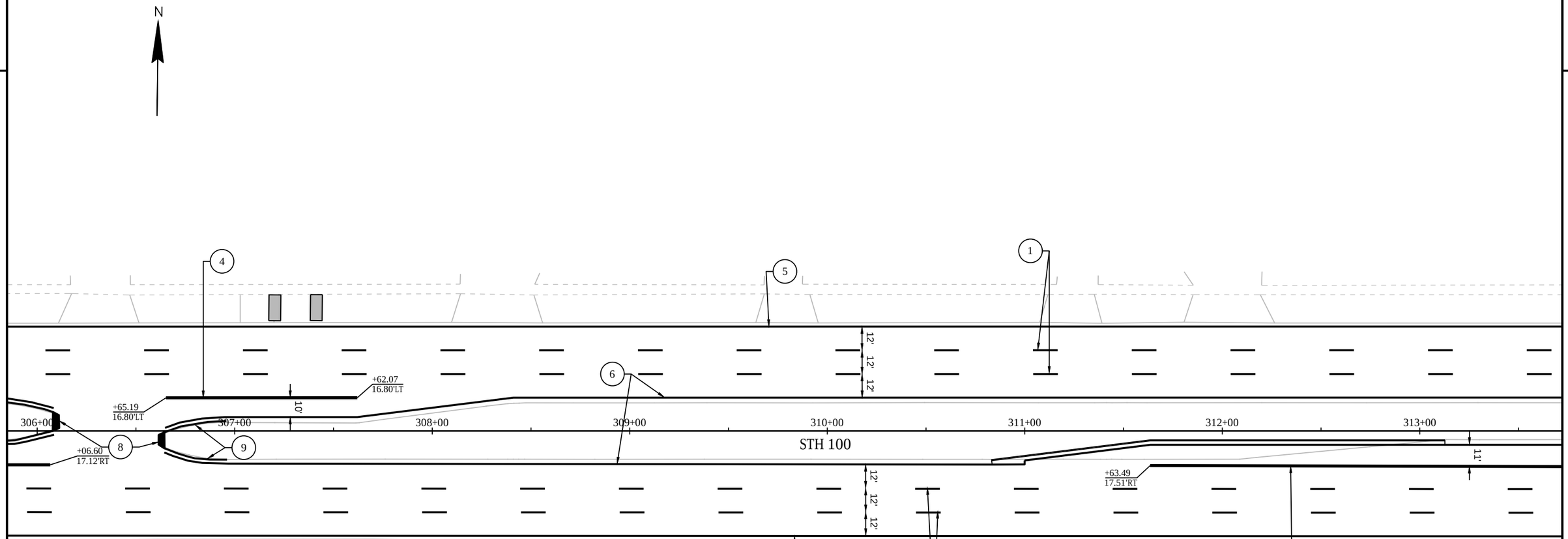


LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 4-INCH 12.5' LINE W/ 37.5' GAP (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH 3' LINE W/ 9' GAP (WHITE)
3. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH 2' LINE W/ 6' GAP (WHITE)
4. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE EPOXY 4-INCH (WHITE)
6. MARKING LINE EPOXY 4-INCH (YELLOW)
7. MARKING STOP LINE EPOXY 18-INCH (WHITE)
8. MARKING ISLAND NOSE EPOXY (YELLOW)
9. MARKING CURB EPOXY (YELLOW)
10. MARKING ARROW EPOXY
11. MARKING WORD EPOXY
12. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
13. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
14. MARKING RAILROAD CROSSING EPOXY

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 288	E

2

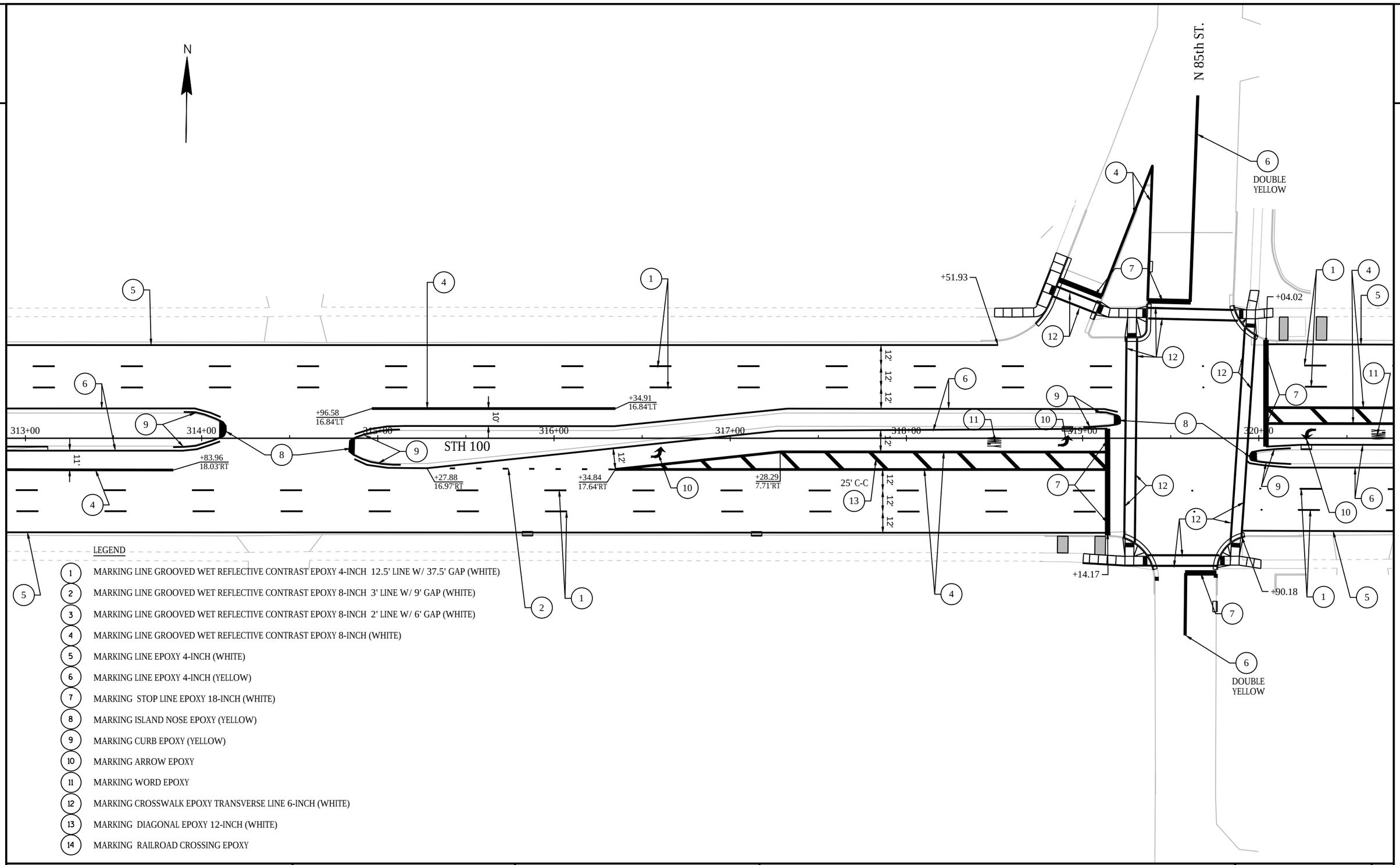


LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 4-INCH 12.5' LINE W/ 37.5' GAP (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH 3' LINE W/ 9' GAP (WHITE)
3. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH 2' LINE W/ 6' GAP (WHITE)
4. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE EPOXY 4-INCH (WHITE)
6. MARKING LINE EPOXY 4-INCH (YELLOW)
7. MARKING STOP LINE EPOXY 18-INCH (WHITE)
8. MARKING ISLAND NOSE EPOXY (YELLOW)
9. MARKING CURB EPOXY (YELLOW)
10. MARKING ARROW EPOXY
11. MARKING WORD EPOXY
12. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
13. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
14. MARKING RAILROAD CROSSING EPOXY

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 289	E

2

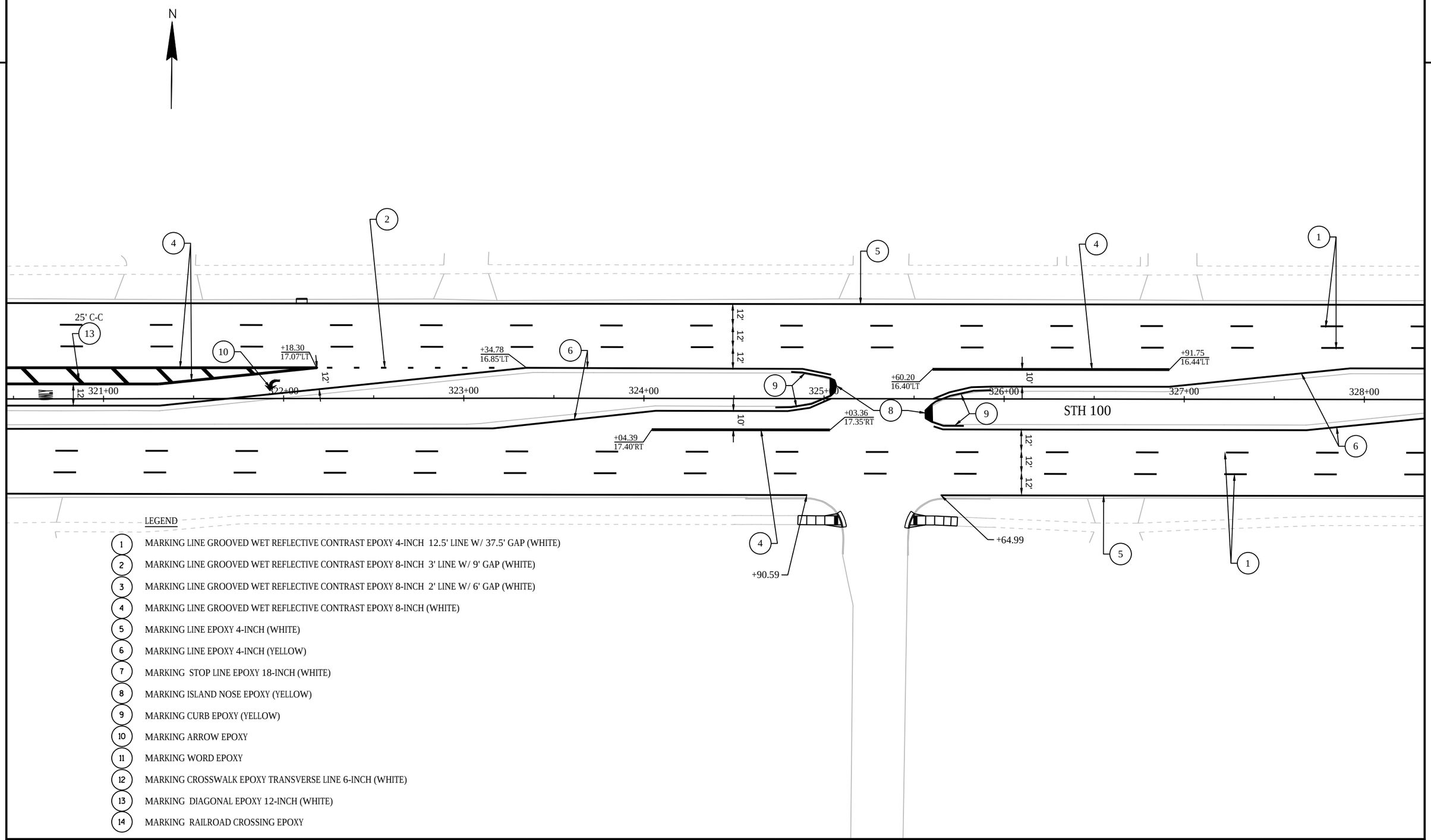


LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 4-INCH 12.5' LINE W/ 37.5' GAP (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH 3' LINE W/ 9' GAP (WHITE)
3. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH 2' LINE W/ 6' GAP (WHITE)
4. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE EPOXY 4-INCH (WHITE)
6. MARKING LINE EPOXY 4-INCH (YELLOW)
7. MARKING STOP LINE EPOXY 18-INCH (WHITE)
8. MARKING ISLAND NOSE EPOXY (YELLOW)
9. MARKING CURB EPOXY (YELLOW)
10. MARKING ARROW EPOXY
11. MARKING WORD EPOXY
12. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
13. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
14. MARKING RAILROAD CROSSING EPOXY

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 290	E

2



LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 4-INCH 12.5' LINE W/ 37.5' GAP (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH 3' LINE W/ 9' GAP (WHITE)
3. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH 2' LINE W/ 6' GAP (WHITE)
4. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE EPOXY 4-INCH (WHITE)
6. MARKING LINE EPOXY 4-INCH (YELLOW)
7. MARKING STOP LINE EPOXY 18-INCH (WHITE)
8. MARKING ISLAND NOSE EPOXY (YELLOW)
9. MARKING CURB EPOXY (YELLOW)
10. MARKING ARROW EPOXY
11. MARKING WORD EPOXY
12. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
13. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
14. MARKING RAILROAD CROSSING EPOXY

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 291	E

2

N

N 82nd ST.

STH 100

+34.03

+49.59

+46.61

+36.12

328+00

329+00

330+00

331+00

332+00

333+00

334+00

335+00

+68.45
17.55'RT

+43.10
17.54'RT

+42.09
16.77'LT

+41.81
16.89'LT

+42.09
17.05'RT

+44.35
8.73'RT

+99.42
17.76'RT

12'

11'

10'

25' C-C

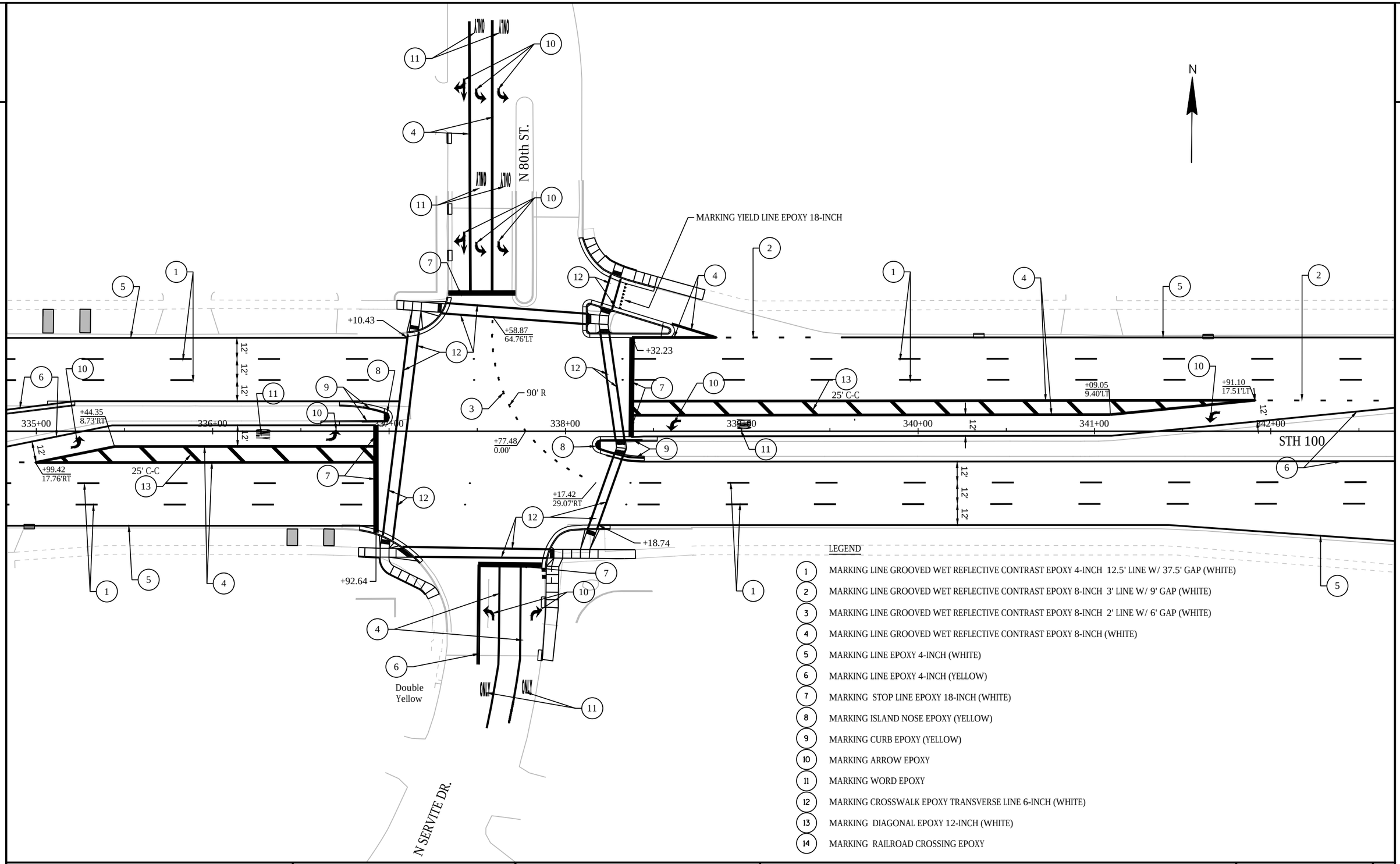
LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 4-INCH 12.5' LINE W/ 37.5' GAP (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH 3' LINE W/ 9' GAP (WHITE)
3. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH 2' LINE W/ 6' GAP (WHITE)
4. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE EPOXY 4-INCH (WHITE)
6. MARKING LINE EPOXY 4-INCH (YELLOW)
7. MARKING STOP LINE EPOXY 18-INCH (WHITE)
8. MARKING ISLAND NOSE EPOXY (YELLOW)
9. MARKING CURB EPOXY (YELLOW)
10. MARKING ARROW EPOXY
11. MARKING WORD EPOXY
12. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
13. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
14. MARKING RAILROAD CROSSING EPOXY

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 292	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 6_PM
PLOT DATE : 11/4/2020 2:50 PM
PLOT BY : SCHMIDT, JUDENE M
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 42

2



LEGEND

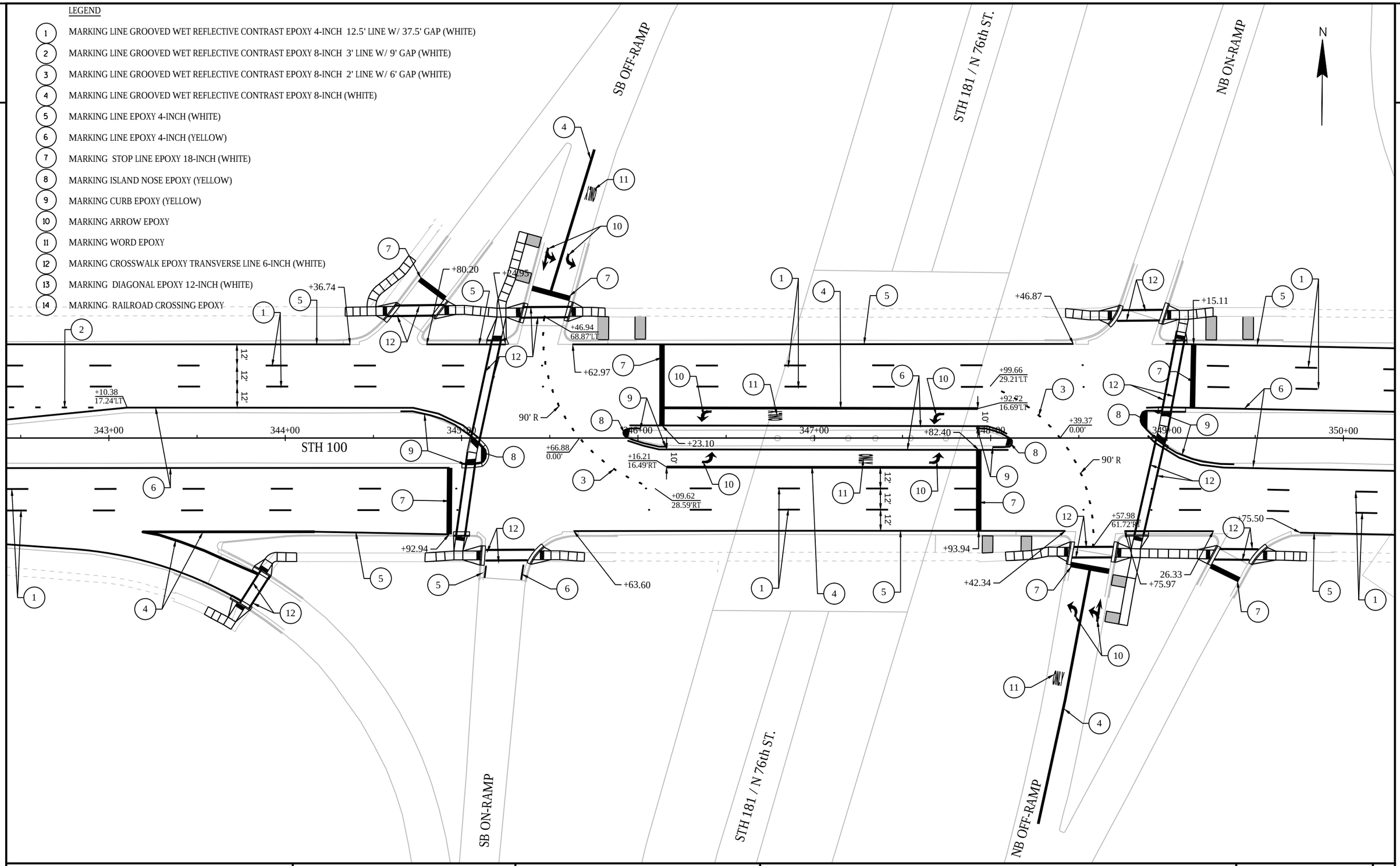
1. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 4-INCH 12.5' LINE W/ 37.5' GAP (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH 3' LINE W/ 9' GAP (WHITE)
3. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH 2' LINE W/ 6' GAP (WHITE)
4. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE EPOXY 4-INCH (WHITE)
6. MARKING LINE EPOXY 4-INCH (YELLOW)
7. MARKING STOP LINE EPOXY 18-INCH (WHITE)
8. MARKING ISLAND NOSE EPOXY (YELLOW)
9. MARKING CURB EPOXY (YELLOW)
10. MARKING ARROW EPOXY
11. MARKING WORD EPOXY
12. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
13. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
14. MARKING RAILROAD CROSSING EPOXY

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 293	E

2

LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 4-INCH 12.5' LINE W/ 37.5' GAP (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH 3' LINE W/ 9' GAP (WHITE)
3. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH 2' LINE W/ 6' GAP (WHITE)
4. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE EPOXY 4-INCH (WHITE)
6. MARKING LINE EPOXY 4-INCH (YELLOW)
7. MARKING STOP LINE EPOXY 18-INCH (WHITE)
8. MARKING ISLAND NOSE EPOXY (YELLOW)
9. MARKING CURB EPOXY (YELLOW)
10. MARKING ARROW EPOXY
11. MARKING WORD EPOXY
12. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
13. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
14. MARKING RAILROAD CROSSING EPOXY



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 294	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 8_PM

PLOT DATE : 11/4/2020 2:50 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

N

N

5

12

4

4

5

5

4

1

+36.02
53.54'LT

12'
12'
12'

+28.92
16.61'LT

+18.62
17.25'LT

10'

350+00

351+00

352+00

353+00

354+00

355+00

356+00

357+00

9

8

9

STH 100

12'

+63.99
17.00'RT

+63.99
17.00'RT

6

12'
12'
12'

6

4

5

+59.21

7

+29.57

1

5

LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 4-INCH 12.5' LINE W/ 37.5' GAP (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH 3' LINE W/ 9' GAP (WHITE)
3. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH 2' LINE W/ 6' GAP (WHITE)
4. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE EPOXY 4-INCH (WHITE)
6. MARKING LINE EPOXY 4-INCH (YELLOW)
7. MARKING STOP LINE EPOXY 18-INCH (WHITE)
8. MARKING ISLAND NOSE EPOXY (YELLOW)
9. MARKING CURB EPOXY (YELLOW)
10. MARKING ARROW EPOXY
11. MARKING WORD EPOXY
12. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
13. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
14. MARKING RAILROAD CROSSING EPOXY

N 76th PL.

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 295	E

2

N

EXISTING DELINEATORS TO REMAIN

+18.62
17.25'LT

+42.02
17.00'LT

10' C-C

12'
12'
12'

357+00 358+00 359+00 360+00 361+00 362+00 363+00 364+00

STH 100

10'

+09.36
17.20'RT

+40.40
17.20'RT

+64.29

+50.90

MARKING LINE EPOXY 4-INCH
3' LINE W/ 9' GAP (YELLOW)

ONLY

N 72nd ST.

LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 4-INCH 12.5' LINE W/ 37.5' GAP (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH 3' LINE W/ 9' GAP (WHITE)
3. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH 2' LINE W/ 6' GAP (WHITE)
4. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE EPOXY 4-INCH (WHITE)
6. MARKING LINE EPOXY 4-INCH (YELLOW)
7. MARKING STOP LINE EPOXY 18-INCH (WHITE)
8. MARKING ISLAND NOSE EPOXY (YELLOW)
9. MARKING CURB EPOXY (YELLOW)
10. MARKING ARROW EPOXY
11. MARKING WORD EPOXY
12. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
13. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
14. MARKING RAILROAD CROSSING EPOXY

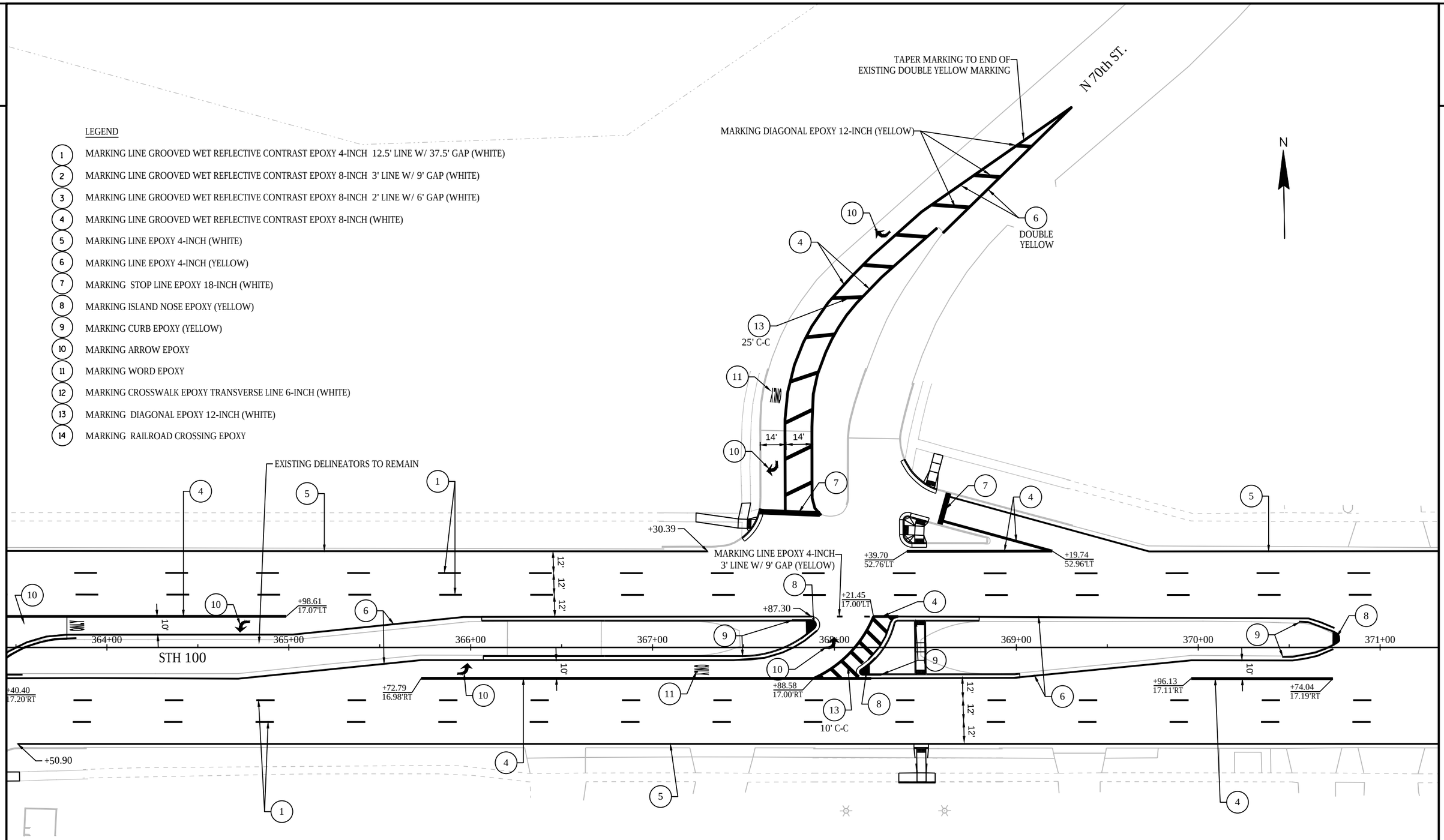
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 296	E

2

2

LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 4-INCH 12.5' LINE W/ 37.5' GAP (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH 3' LINE W/ 9' GAP (WHITE)
3. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH 2' LINE W/ 6' GAP (WHITE)
4. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE EPOXY 4-INCH (WHITE)
6. MARKING LINE EPOXY 4-INCH (YELLOW)
7. MARKING STOP LINE EPOXY 18-INCH (WHITE)
8. MARKING ISLAND NOSE EPOXY (YELLOW)
9. MARKING CURB EPOXY (YELLOW)
10. MARKING ARROW EPOXY
11. MARKING WORD EPOXY
12. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
13. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
14. MARKING RAILROAD CROSSING EPOXY



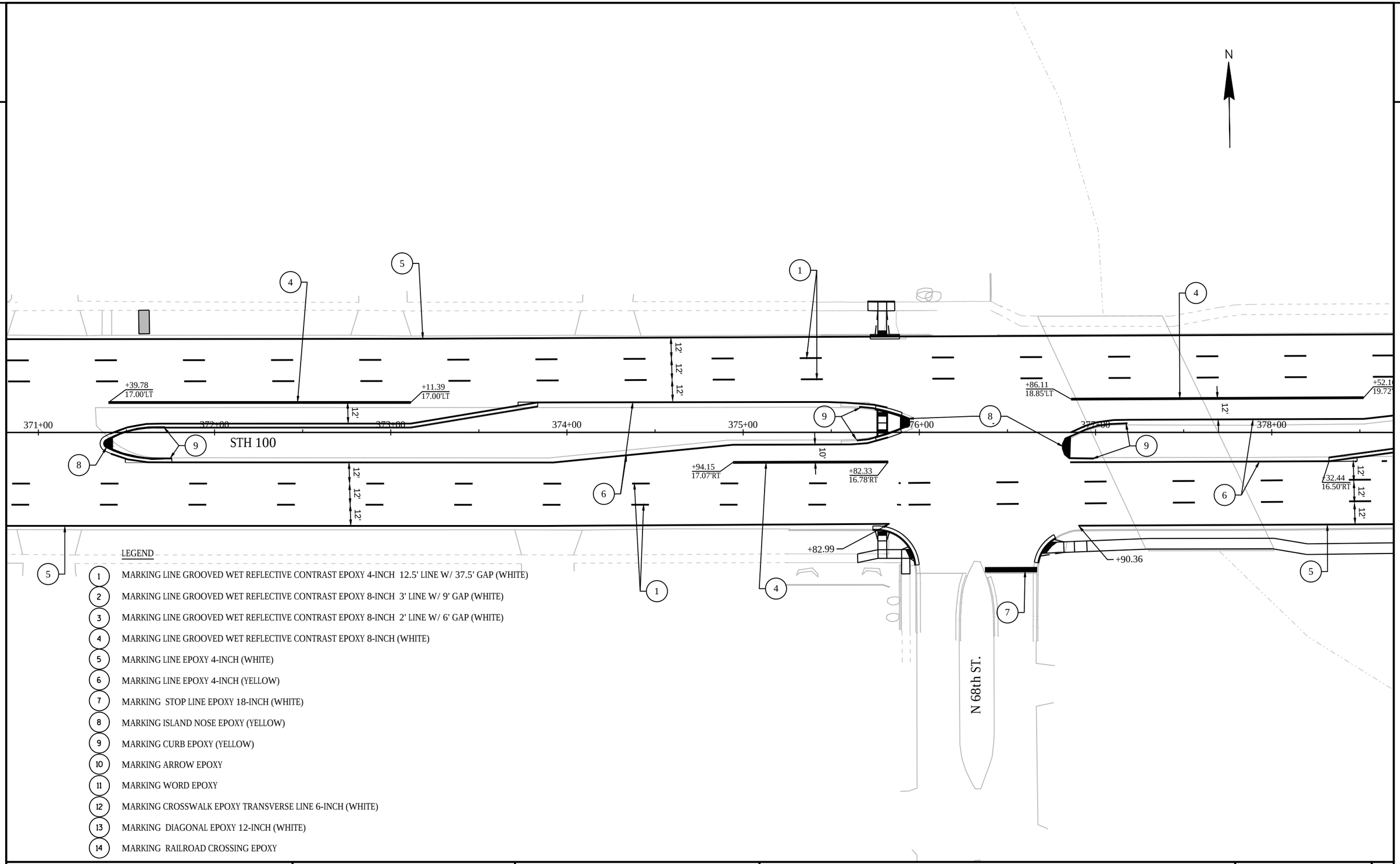
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 297	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\0245O1_PM.DWG
LAYOUT NAME - 11_PM

PLOT DATE : 11/4/2020 2:50 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

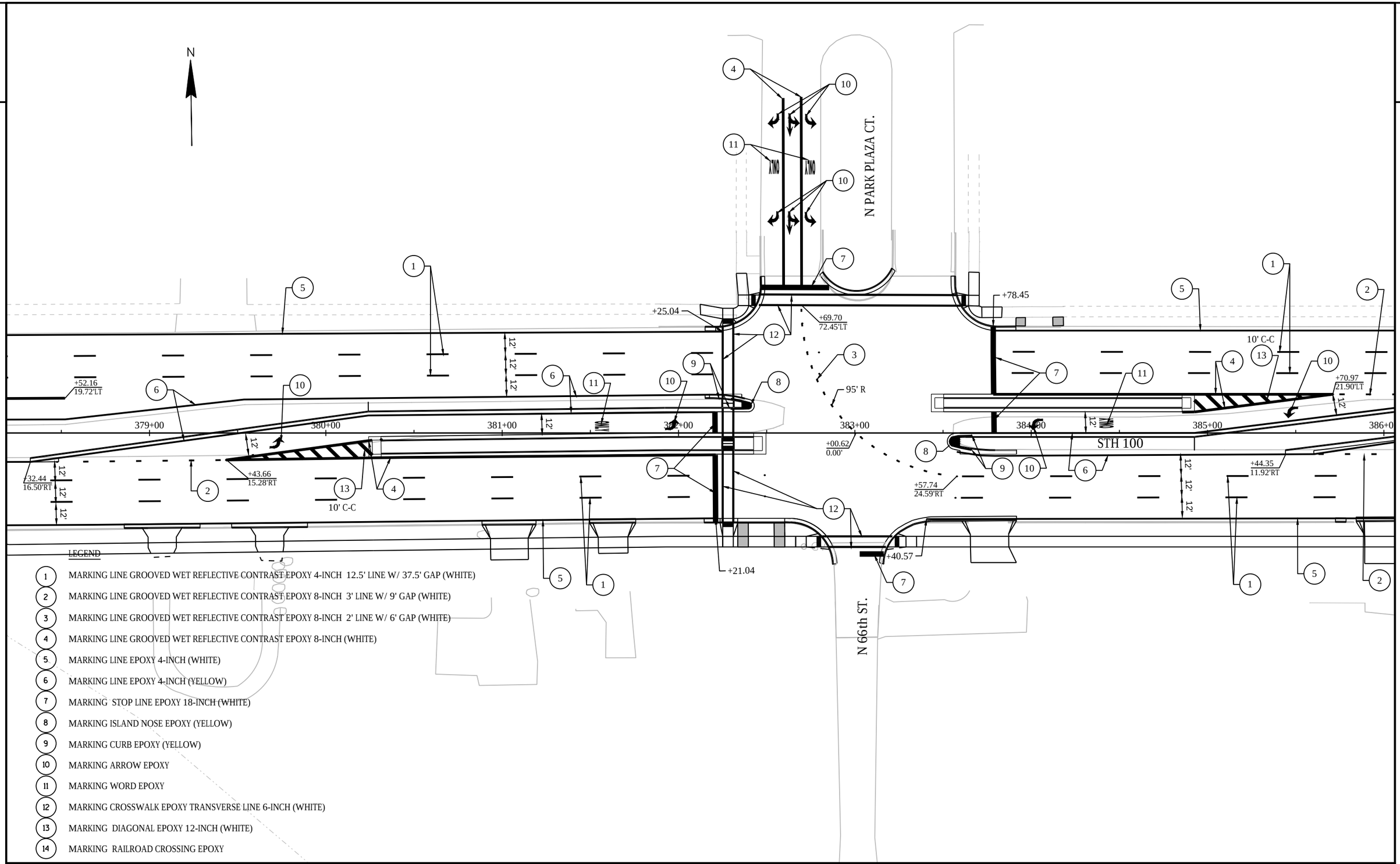
2



LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 4-INCH 12.5' LINE W/ 37.5' GAP (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH 3' LINE W/ 9' GAP (WHITE)
3. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH 2' LINE W/ 6' GAP (WHITE)
4. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE EPOXY 4-INCH (WHITE)
6. MARKING LINE EPOXY 4-INCH (YELLOW)
7. MARKING STOP LINE EPOXY 18-INCH (WHITE)
8. MARKING ISLAND NOSE EPOXY (YELLOW)
9. MARKING CURB EPOXY (YELLOW)
10. MARKING ARROW EPOXY
11. MARKING WORD EPOXY
12. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
13. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
14. MARKING RAILROAD CROSSING EPOXY

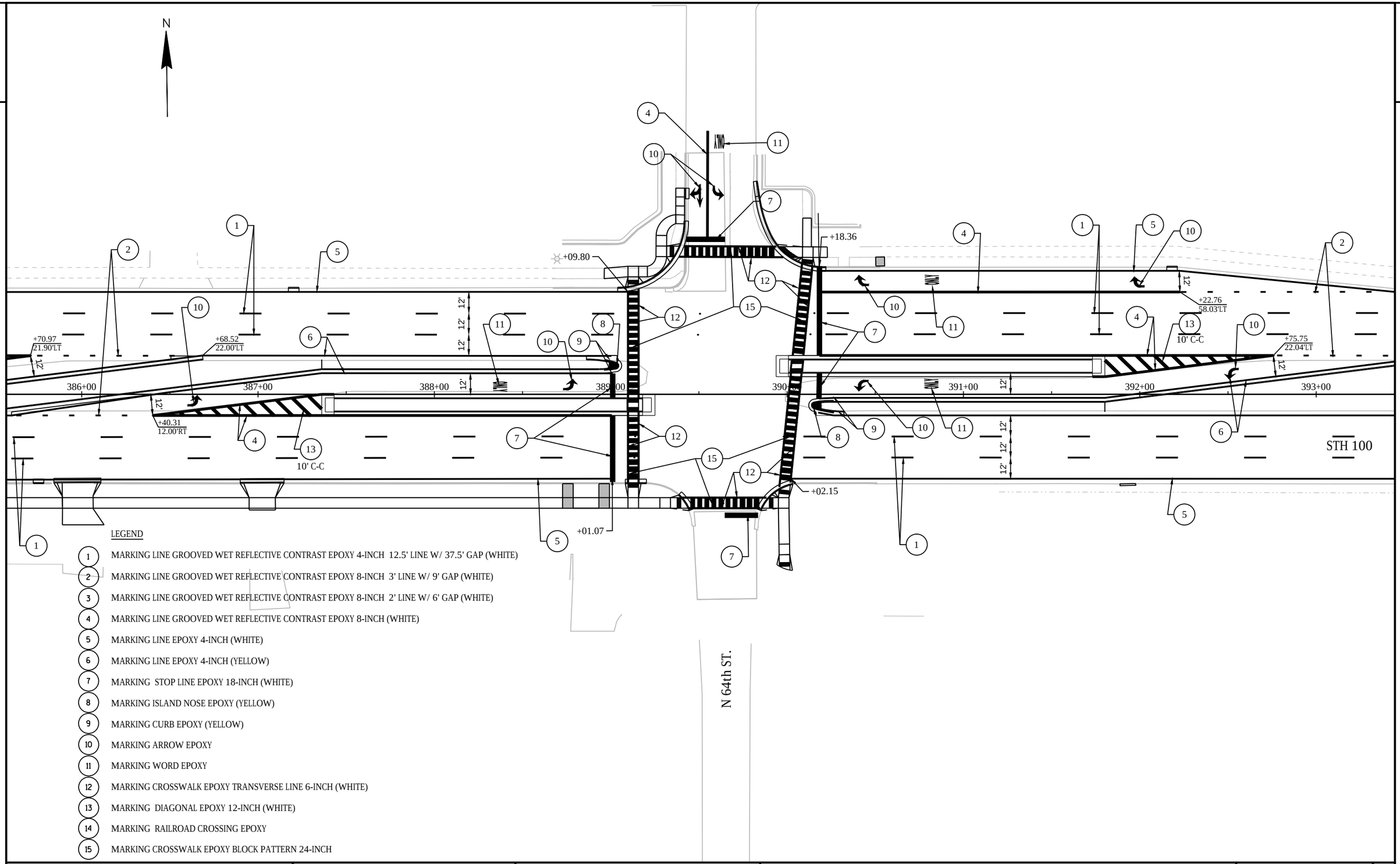
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 298	E



LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 4-INCH 12.5' LINE W/ 37.5' GAP (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH 3' LINE W/ 9' GAP (WHITE)
3. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH 2' LINE W/ 6' GAP (WHITE)
4. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE EPOXY 4-INCH (WHITE)
6. MARKING LINE EPOXY 4-INCH (YELLOW)
7. MARKING STOP LINE EPOXY 18-INCH (WHITE)
8. MARKING ISLAND NOSE EPOXY (YELLOW)
9. MARKING CURB EPOXY (YELLOW)
10. MARKING ARROW EPOXY
11. MARKING WORD EPOXY
12. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
13. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
14. MARKING RAILROAD CROSSING EPOXY

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 299	E

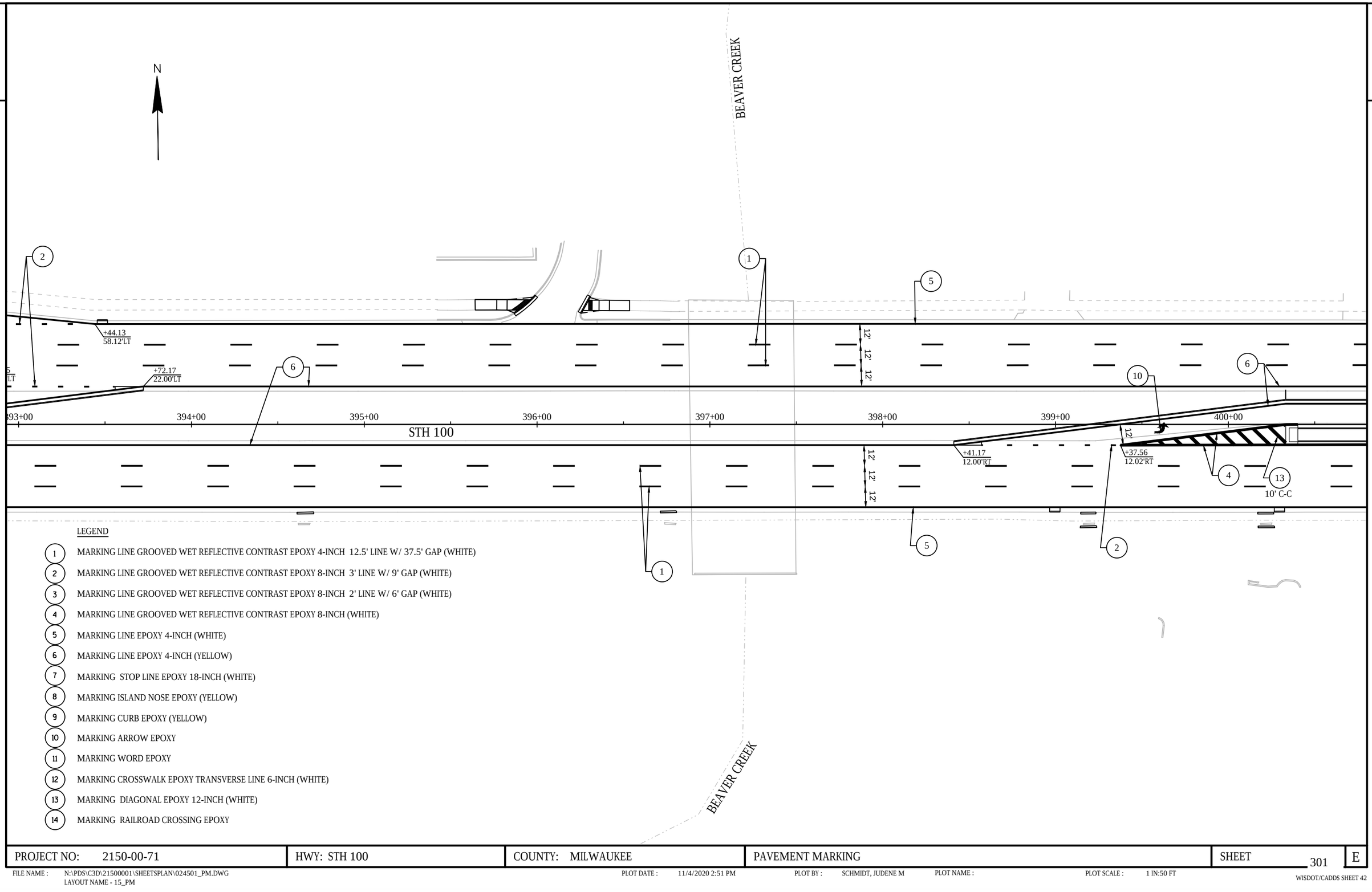


LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 4-INCH 12.5' LINE W/ 37.5' GAP (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH 3' LINE W/ 9' GAP (WHITE)
3. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH 2' LINE W/ 6' GAP (WHITE)
4. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE EPOXY 4-INCH (WHITE)
6. MARKING LINE EPOXY 4-INCH (YELLOW)
7. MARKING STOP LINE EPOXY 18-INCH (WHITE)
8. MARKING ISLAND NOSE EPOXY (YELLOW)
9. MARKING CURB EPOXY (YELLOW)
10. MARKING ARROW EPOXY
11. MARKING WORD EPOXY
12. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
13. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
14. MARKING RAILROAD CROSSING EPOXY
15. MARKING CROSSWALK EPOXY BLOCK PATTERN 24-INCH

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 300	E

2



LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 4-INCH 12.5' LINE W/ 37.5' GAP (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH 3' LINE W/ 9' GAP (WHITE)
3. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH 2' LINE W/ 6' GAP (WHITE)
4. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE EPOXY 4-INCH (WHITE)
6. MARKING LINE EPOXY 4-INCH (YELLOW)
7. MARKING STOP LINE EPOXY 18-INCH (WHITE)
8. MARKING ISLAND NOSE EPOXY (YELLOW)
9. MARKING CURB EPOXY (YELLOW)
10. MARKING ARROW EPOXY
11. MARKING WORD EPOXY
12. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
13. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
14. MARKING RAILROAD CROSSING EPOXY

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 301	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\0245O1_PM.DWG
LAYOUT NAME - 15_PM
PLOT DATE : 11/4/2020 2:51 PM
PLOT BY : SCHMIDT, JUDENE M
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 42

2

2

LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 4-INCH 12.5' LINE W/ 37.5' GAP (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH 3' LINE W/ 9' GAP (WHITE)
3. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH 2' LINE W/ 6' GAP (WHITE)
4. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE EPOXY 4-INCH (WHITE)
6. MARKING LINE EPOXY 4-INCH (YELLOW)
7. MARKING STOP LINE EPOXY 18-INCH (WHITE)
8. MARKING ISLAND NOSE EPOXY (YELLOW)
9. MARKING CURB EPOXY (YELLOW)
10. MARKING ARROW EPOXY
11. MARKING WORD EPOXY
12. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
13. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
14. MARKING RAILROAD CROSSING EPOXY

N

N 60th ST.

DOUBLE YELLOW

ONLY

+37.10

+55.26

+32.80

+49.42

+64.22
22.00'LT

+60.97
22.07'LT

10' C-C

12'

401+00

402+00

403+00

404+00

405+00

406+00

407+00

408+00

STH 100

SEE INSET

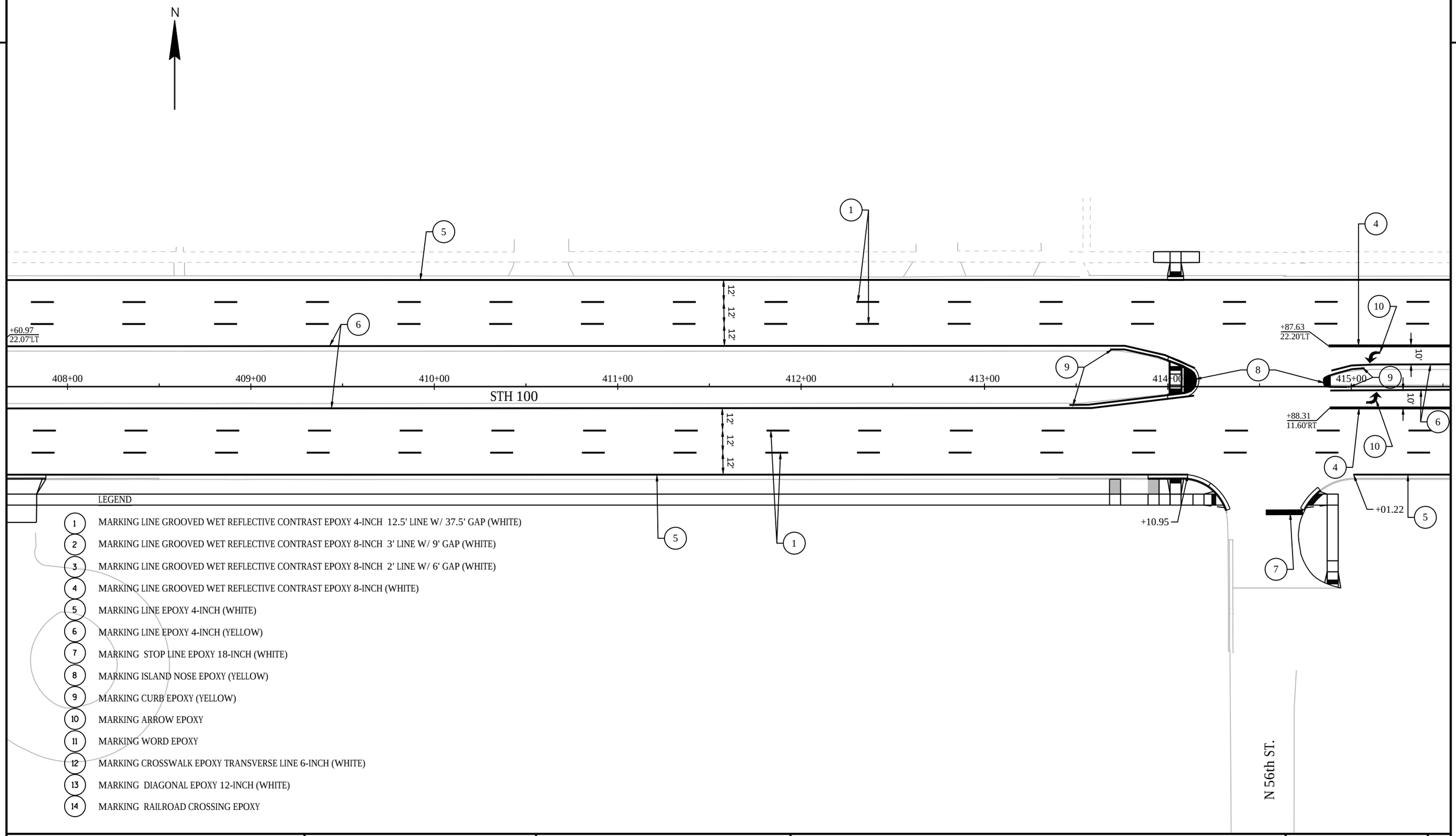
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 302	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 16_PM

PLOT DATE : 11/4/2020 2:51 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2



LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 4-INCH 12.5' LINE W/ 37.5' GAP (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH 3' LINE W/ 9' GAP (WHITE)
3. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH 2' LINE W/ 6' GAP (WHITE)
4. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE EPOXY 4-INCH (WHITE)
6. MARKING LINE EPOXY 4-INCH (YELLOW)
7. MARKING STOP LINE EPOXY 18-INCH (WHITE)
8. MARKING ISLAND NOSE EPOXY (YELLOW)
9. MARKING CURB EPOXY (YELLOW)
10. MARKING ARROW EPOXY
11. MARKING WORD EPOXY
12. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
13. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
14. MARKING RAILROAD CROSSING EPOXY

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 303	E

2

2

N 55th ST.

N

LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 4-INCH 12.5' LINE W/ 37.5' GAP (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH 3' LINE W/ 9' GAP (WHITE)
3. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH 2' LINE W/ 6' GAP (WHITE)
4. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE EPOXY 4-INCH (WHITE)
6. MARKING LINE EPOXY 4-INCH (YELLOW)
7. MARKING STOP LINE EPOXY 18-INCH (WHITE)
8. MARKING ISLAND NOSE EPOXY (YELLOW)
9. MARKING CURB EPOXY (YELLOW)
10. MARKING ARROW EPOXY
11. MARKING WORD EPOXY
12. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
13. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
14. MARKING RAILROAD CROSSING EPOXY

+19.61
+06.28
+22.01
22.23'LT
+22.39
11.63'RT
+01.22
+77.03
11.74'RT
+04.10
11.77'RT

12'
12'
12'

10'

416+00
418+00
419+00
420+00
421+00

STH 100

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 304	E

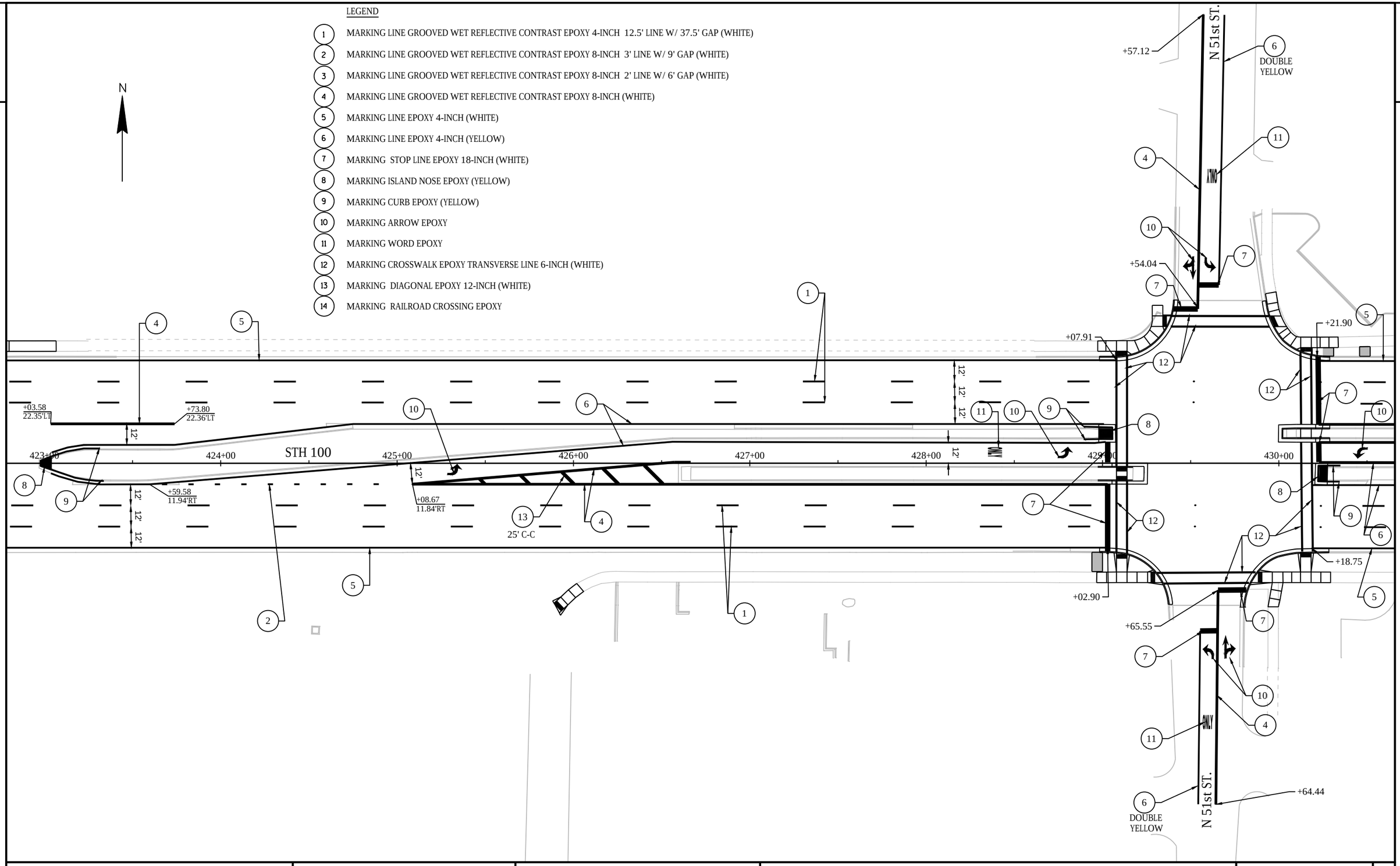
FILE NAME : N:\PDS\C3D\215000001\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 18_PM

PLOT DATE : 11/4/2020 2:52 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 4-INCH 12.5' LINE W/ 37.5' GAP (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH 3' LINE W/ 9' GAP (WHITE)
3. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH 2' LINE W/ 6' GAP (WHITE)
4. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE EPOXY 4-INCH (WHITE)
6. MARKING LINE EPOXY 4-INCH (YELLOW)
7. MARKING STOP LINE EPOXY 18-INCH (WHITE)
8. MARKING ISLAND NOSE EPOXY (YELLOW)
9. MARKING CURB EPOXY (YELLOW)
10. MARKING ARROW EPOXY
11. MARKING WORD EPOXY
12. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
13. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
14. MARKING RAILROAD CROSSING EPOXY



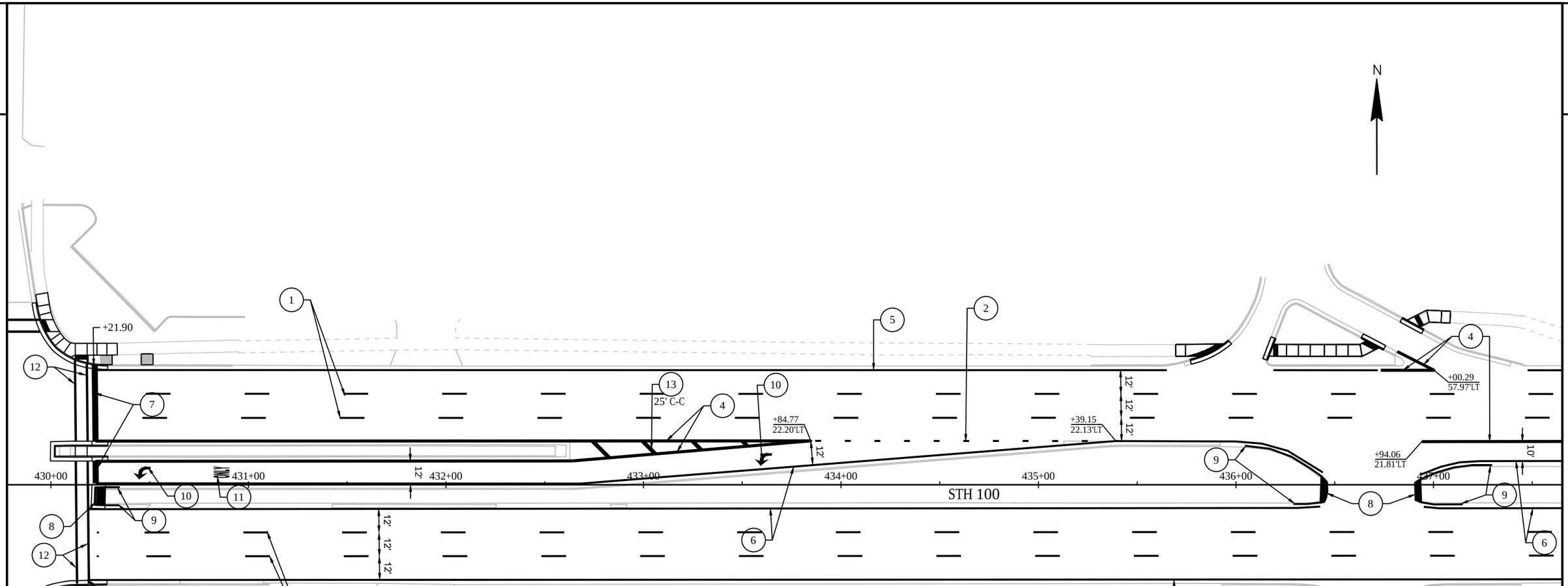
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 305	E

FILE NAME : N:\PDS\C3D\215000001\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 19_PM

PLOT DATE : 11/4/2020 2:52 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2



LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 4-INCH 12.5' LINE W/ 37.5' GAP (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH 3' LINE W/ 9' GAP (WHITE)
3. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH 2' LINE W/ 6' GAP (WHITE)
4. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE EPOXY 4-INCH (WHITE)
6. MARKING LINE EPOXY 4-INCH (YELLOW)
7. MARKING STOP LINE EPOXY 18-INCH (WHITE)
8. MARKING ISLAND NOSE EPOXY (YELLOW)
9. MARKING CURB EPOXY (YELLOW)
10. MARKING ARROW EPOXY
11. MARKING WORD EPOXY
12. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
13. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
14. MARKING RAILROAD CROSSING EPOXY

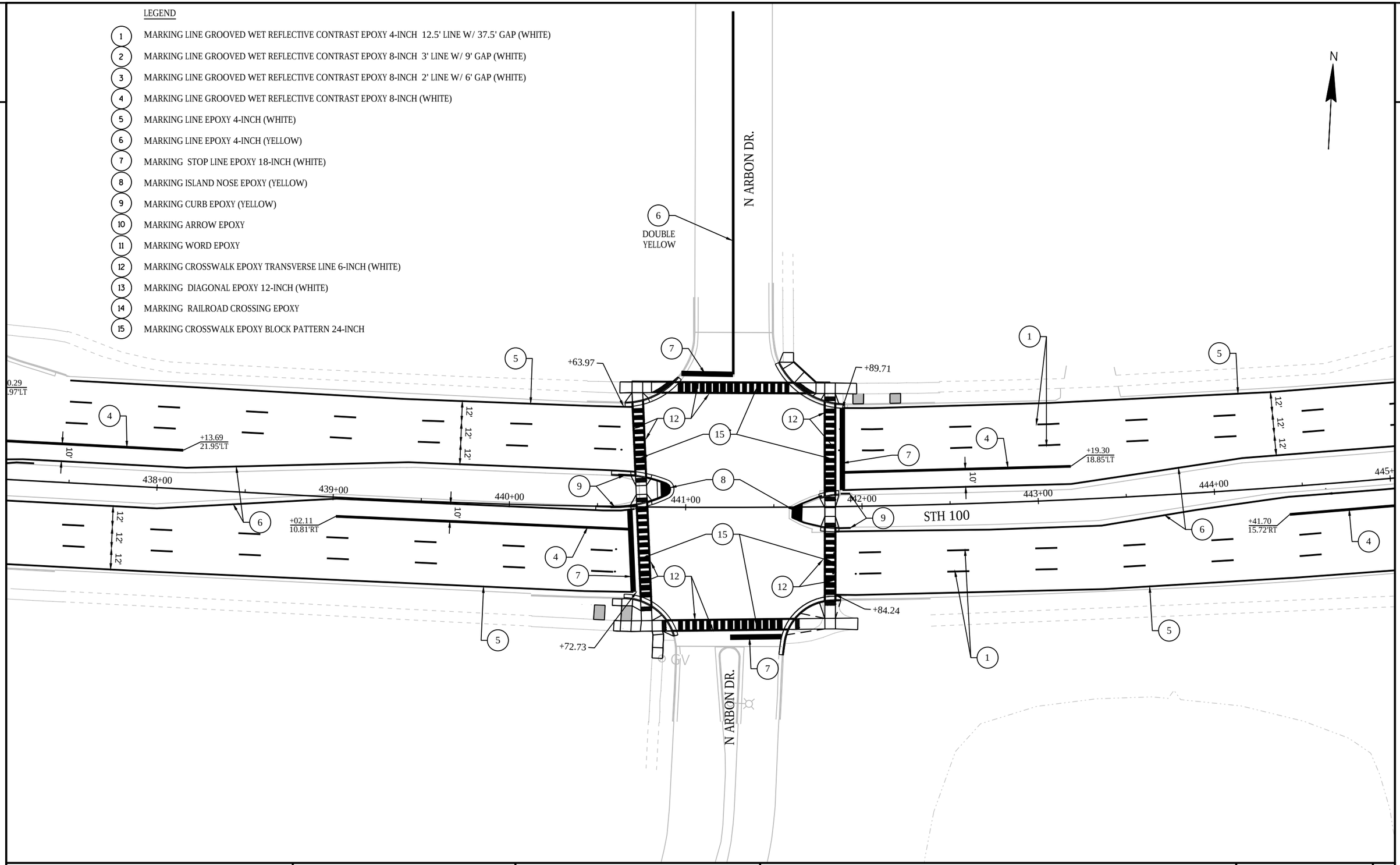
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 306	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\0024501_PM.DWG
LAYOUT NAME - 20_PM
PLOT DATE : 11/4/2020 2:52 PM
PLOT BY : SCHMIDT, JUDENE M
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 42

2

LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 4-INCH 12.5' LINE W/ 37.5' GAP (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH 3' LINE W/ 9' GAP (WHITE)
3. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH 2' LINE W/ 6' GAP (WHITE)
4. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE EPOXY 4-INCH (WHITE)
6. MARKING LINE EPOXY 4-INCH (YELLOW)
7. MARKING STOP LINE EPOXY 18-INCH (WHITE)
8. MARKING ISLAND NOSE EPOXY (YELLOW)
9. MARKING CURB EPOXY (YELLOW)
10. MARKING ARROW EPOXY
11. MARKING WORD EPOXY
12. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
13. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
14. MARKING RAILROAD CROSSING EPOXY
15. MARKING CROSSWALK EPOXY BLOCK PATTERN 24-INCH



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 307	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 21_PM

PLOT DATE : 11/4/2020 2:52 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 4-INCH 12.5' LINE W/ 37.5' GAP (WHITE)
2. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH 3' LINE W/ 9' GAP (WHITE)
3. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH 2' LINE W/ 6' GAP (WHITE)
4. MARKING LINE GROOVED WET REFLECTIVE CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE EPOXY 4-INCH (WHITE)
6. MARKING LINE EPOXY 4-INCH (YELLOW)
7. MARKING STOP LINE EPOXY 18-INCH (WHITE)
8. MARKING ISLAND NOSE EPOXY (YELLOW)
9. MARKING CURB EPOXY (YELLOW)
10. MARKING ARROW EPOXY
11. MARKING WORD EPOXY
12. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
13. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
14. MARKING RAILROAD CROSSING EPOXY

N

WCL RR

12'
12'
12'

+35.09
16.99'LT

+67.53
17.01'LT

10'

444+00
445+00
446+00
447+00
448+00
449+00
450+00
451+00

STH 100

+41.70
15.72'RT

+66.69
16.42'RT

RR
RR
RR

END PROJECT
STA 447+42

WCL RR

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 308	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 22_PM

PLOT DATE : 11/4/2020 2:52 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

GENERAL NOTES FOR CONSTRUCTION STAGING AND TRAFFIC CONTROL

1. TRAFFIC CONTROL DRUMS IN TAPERS SHALL BE EQUIPPED WITH WARNING LIGHTS, TYPE "C", ONE WAY LIGHTS, UNLESS OTHERWISE SHOWN.

2. SIGN LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATION AND SPACING MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO MEET FIELD CONDITIONS.

3. SIGNS IN CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE COVERED. THE COVERING OF TYPE II SIGNS IS INCLUDED UNDER THE BID ITEM TRAFFIC CONTROL COVERING SIGNS TYPE II. IN LIEU COVERING TYPE II SIGNS, THE CONTRACTOR MAY ELECT TO REMOVE AND REINSTALL THEM. THE COVERING OF ALL OR A PART OF A TYPE I TYPE SIGN MESSAGE SHALL BE PAID FOR UNDER THE BID ITEM TRAFFIC CONTROL COVERING SIGNS TYPE I.

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

5. ALL TRAFFIC CONTROL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED IN THE PLANS.

6. A FLAGGER MAY BE REQUIRED WHERE THE CONSTRUCTION VEHICLES ENTER OR LEAVE "WORK/CLOSED" AREAS IF WARRANTED BY CONDITIONS AND/OR AS DIRECTED BY THE ENGINEER.

7. CONTRACTOR SHALL INSTALL PERMANENT SIGNS AND PERMANENT PAVEMENT MARKING WHEN APPROPRIATE DURING CONSTRUCTION STAGING AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

8. ADEQUATE TURNING PROVISIONS SHALL BE MAINTAINED FOR ALL VEHICLES, INCLUDING TRUCKS, EXCEPT FOR TURNING MOVEMENTS HAVING A TRUCK DETOUR AS SHOWN IN THE PLANS. DO NOT USE DETOURS FOR TURNING MOVEMENTS NOT SHOWN IN THE PLAN WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.

9. ALL EXISTING CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED.

10. EXISTING PAVEMENT MARKINGS TO BE REMOVED THAT WILL NOT BE REPLACED IN THE SAME LOCATION AFTER CONSTRUCTION WILL BE REMOVED USING WATER BLASTING. DO NOT GRIND EXISTING PAVEMENT MARKINGS THAT WILL NOT BE REPLACED AFTER CONSTRUCTION.

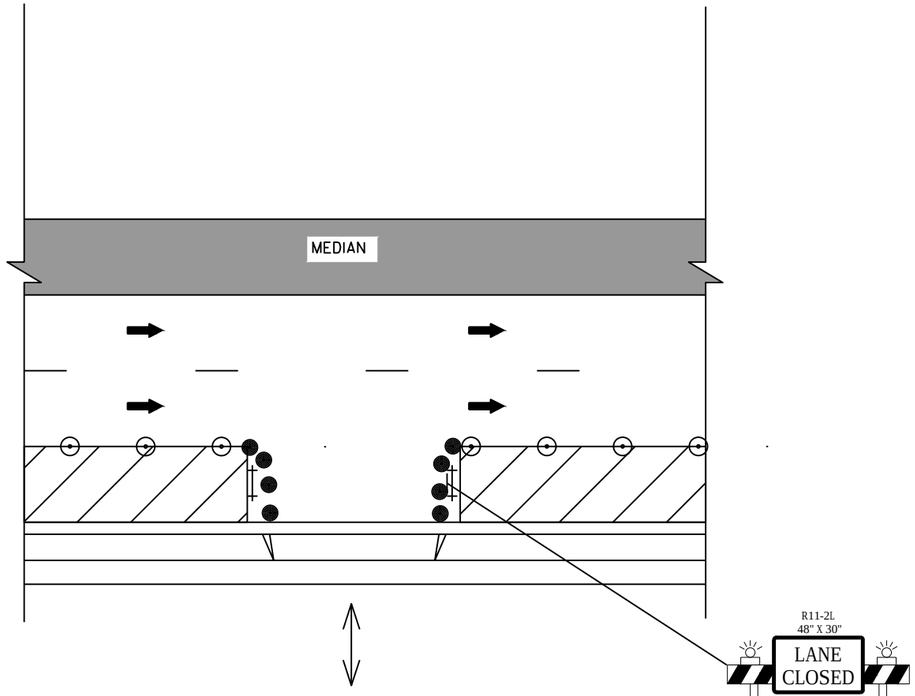
11. BARRICADE STRIPES SHALL POINT DOWNWARD IN THE DIRECTION OF TRAFFIC FLOW.

12. THE CONTRACTOR SHALL ENSURE ADEQUATE DRAINAGE AND AVOID ANY PONDING OR STANDING WATER DURING THE STAGED CONSTRUCTION.

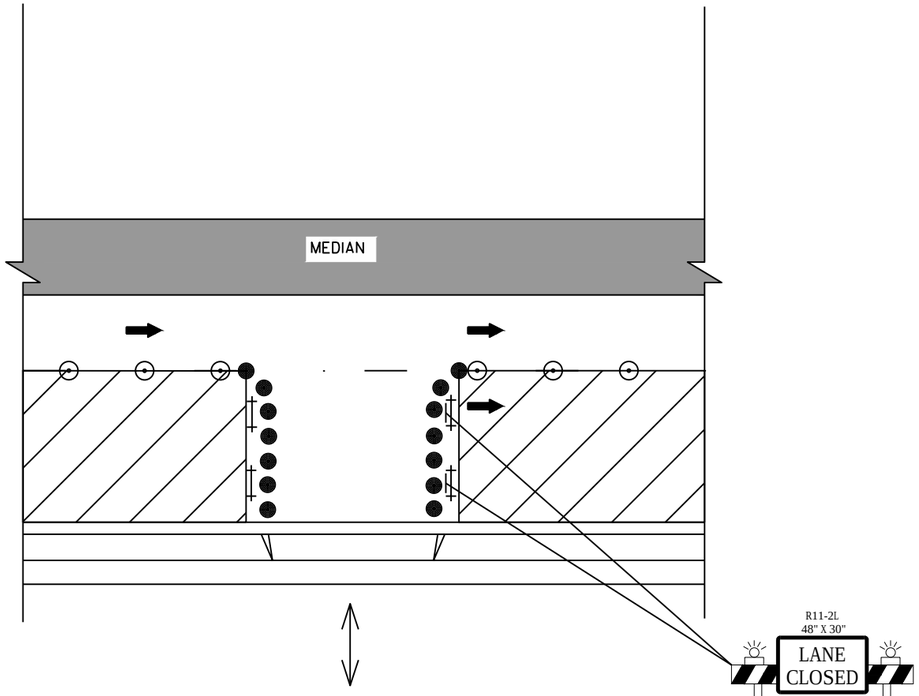
13. TEMPORARY MARKINGS SHALL BE TEMPORARY TAPE WHEN PLACED ON NEW OR EXISTING PAVEMENT SURFACES THAT ARE TO REMAIN IN PLACE FOLLOWING CONSTRUCTION. PAINT MAY BE USED ON EXISTING PAVEMENT OR BINDER HMA LAYERS THAT ARE TO BE REMOVED OR OVERLAID IN SUBSEQUENT STAGES.

DISTANCE FROM EDGE OF TRAVELED WAY	DROP OFF AND HAZARD PROTECTION REQUIREMENTS
0 TO 8 FEET	DELINEATE VERTICAL DROP OFFS 2 INCHES OR GREATER OR SLOPES STEEPER THAN 3:1 WITH DRUMS OR BARRICADES BY END OF WORK DAY. ELIMINATE VERTICAL DROP OFFS 2 INCHES OR GREATER OR SLOPES STEEPER THAN 3:1 WITHIN 72 HOURS OR BEFORE HOLIDAY WEEKEND. DO NOT STORE MATERIALS, CONSTRUCTION EQUIPMENT, AND OTHER CONSTRUCTION HAZARDS WITHIN 8 FEET OF TRAVELED WAY.
8 TO 15 FEET	DELINEATE VERTICAL DROP OFFS 4 INCHES OR GREATER OR SLOPES STEEPER THAN 3:1 WITH DRUMS, BARRICADES, OR BARRIER BY END OF WORK DAY.

2



TEMPORARY ACCESS TO DRIVEWAY DETAIL
(STAGE 1)



TEMPORARY ACCESS TO DRIVEWAY DETAIL
(STAGE 1B)

LOCATIONS

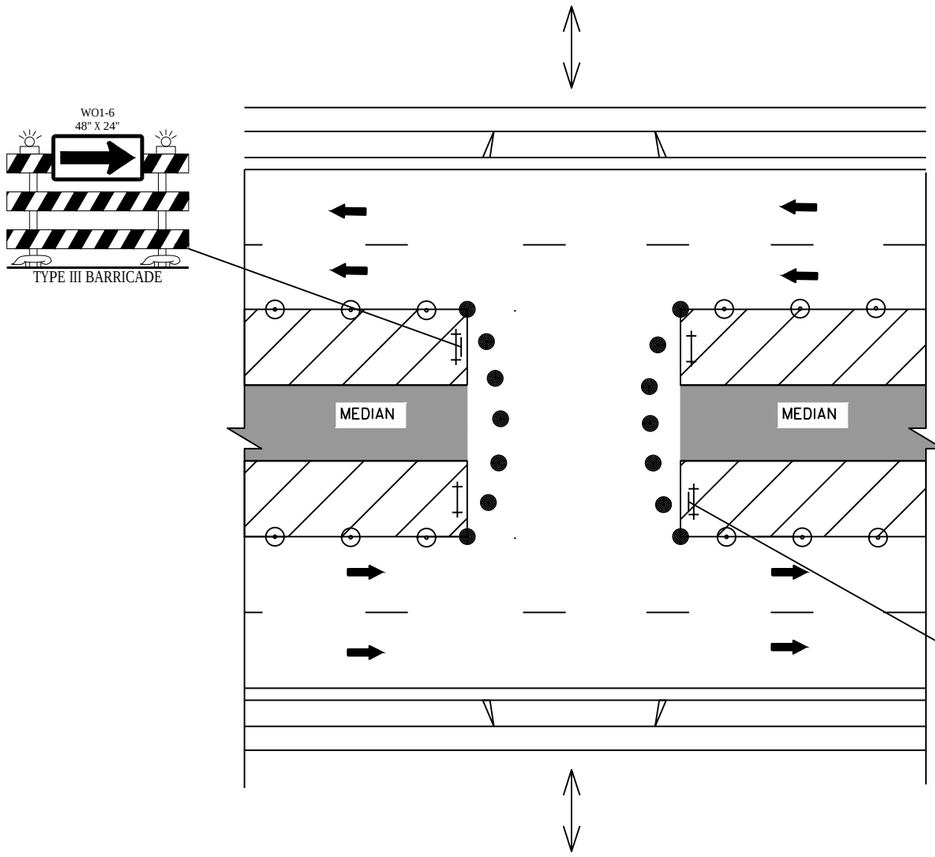
BEGIN PROJECT TO 91ST ST - 3 DRIVEWAYS
91ST ST TO 85TH ST - 21 DRIVEWAYS
85TH ST TO 82ND ST - 7 DRIVEWAYS
82ND ST TO SERVITE DR - 5 DRIVEWAYS
SERVITE DR TO 70TH ST - 7 DRIVEWAYS
70TH ST TO 68TH ST - 7 DRIVEWAYS
68TH ST TO 66TH ST - 6 DRIVEWAYS
66TH ST TO 64TH ST - 4 DRIVEWAYS
64TH ST TO 60TH ST - 2 DRIVEWAYS
60TH ST TO 51ST ST - 7 DRIVEWAYS
51ST ST TO END PROJECT- 11 DRIVEWAYS

*LOCATIONS ARE APPROXIMATE AND
SHOULD BE VERIFIED BY THE ENGINEER.

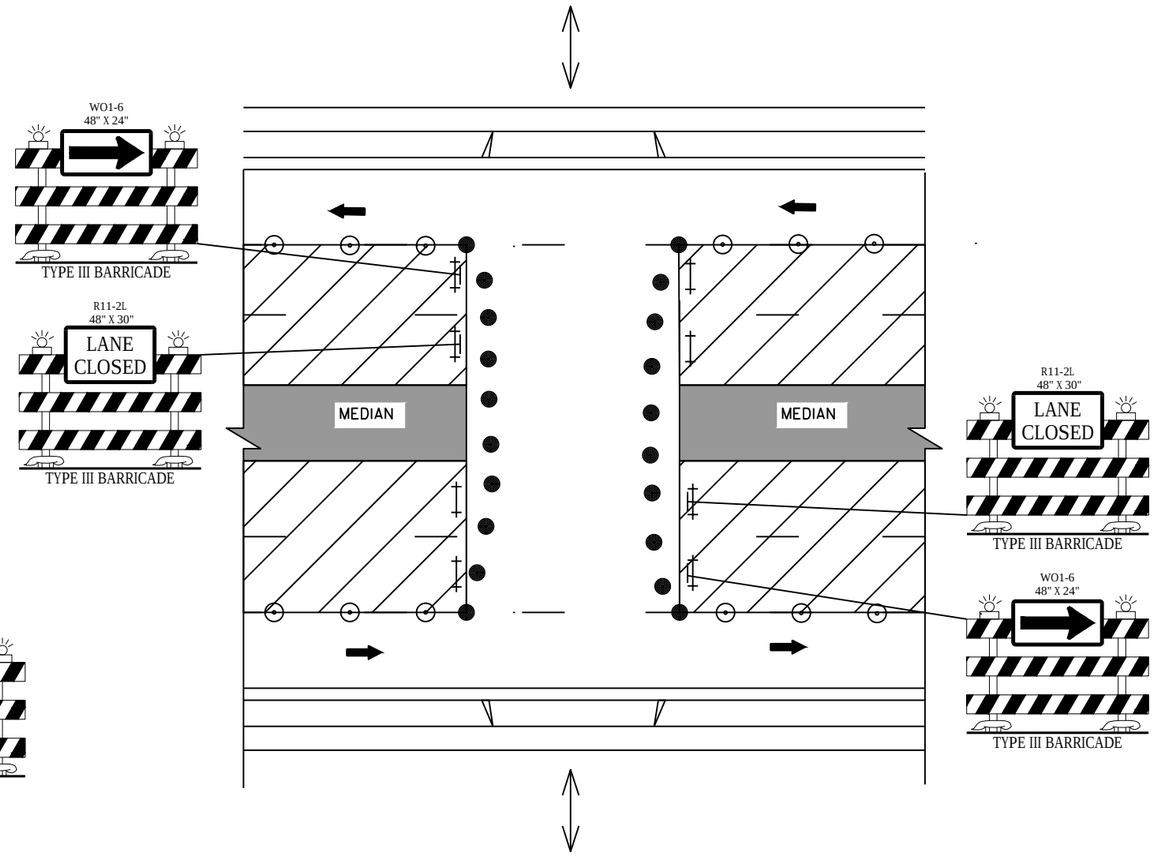
LEGEND

- WORK AREA
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH/WITHOUT WARNING LIGHTS TYPE C
- TRAFFIC CONTROL BARRICADES TYPE III WITH/WITHOUT SIGN INCLUDES 2 TYPE A LIGHTS
- TRAFFIC CONTROL CONES 42-INCH

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PLAN: TRAFFIC CONTROL OVERVIEWS & INTERSECTIONS	SHEET 310	E



TEMPORARY ACCESS TO MEDIAN OPENING DETAIL
(STAGE 2A)



TEMPORARY ACCESS TO MEDIAN OPENING DETAIL
(STAGE 2B)

LOCATIONS

91ST ST TO 85TH ST - 1 OPENING
85TH ST TO 82ND ST - 1 OPENING
60TH ST TO 51ST ST - 1 OPENING
51ST ST TO END PROJECT- 2 OPENINGS

*LOCATIONS ARE APPROXIMATE AND SHOULD BE VERIFIED BY THE ENGINEER.

MEDIANS TO REMAIN OPEN UNLESS WORK IS OCCURRING IN AREA.

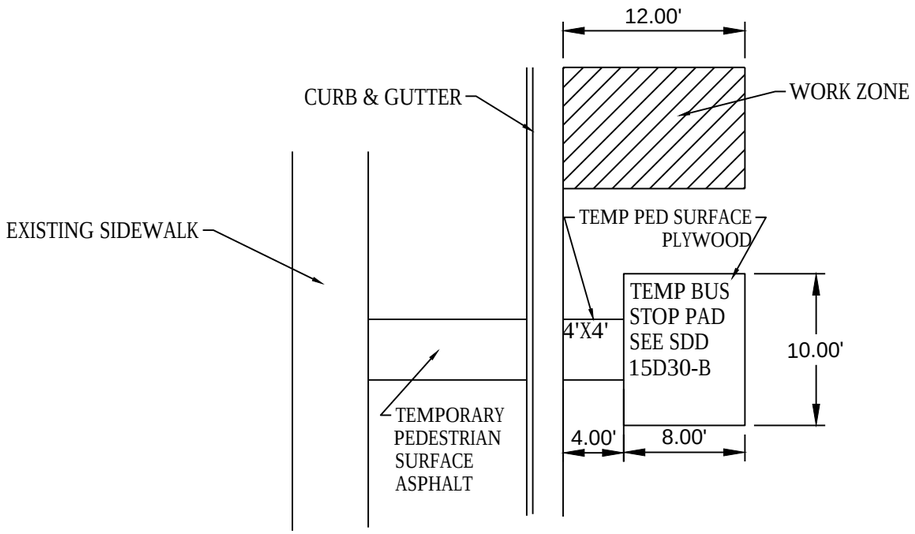
LEGEND

- WORK AREA
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH/WITHOUT WARNING LIGHTS TYPE C
- TRAFFIC CONTROL BARRICADES TYPE III WITH/WITHOUT SIGN INCLUDES 2 TYPE A LIGHTS
- TRAFFIC CONTROL CONES 42-INCH

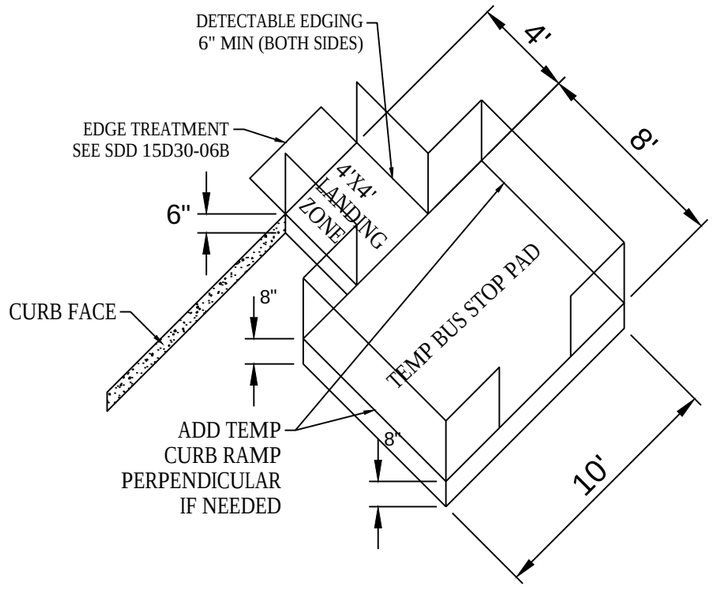
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PLAN: TRAFFIC CONTROL DETAILS	SHEET 311	E

2

STAGE 1A
TEMP BUS PAD DETAIL

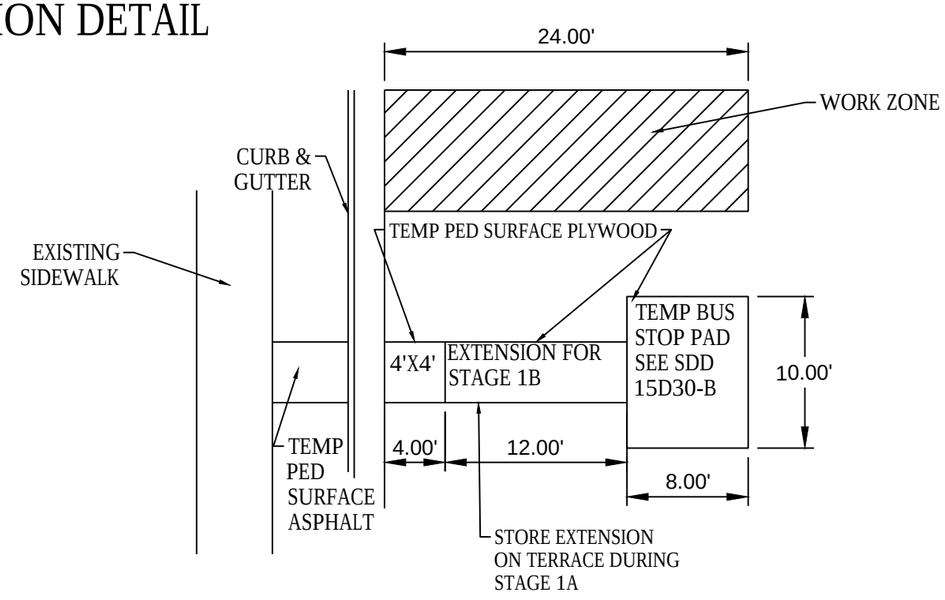


STAGE 1A
TEMP BUS PAD ISOMETRIC VIEW

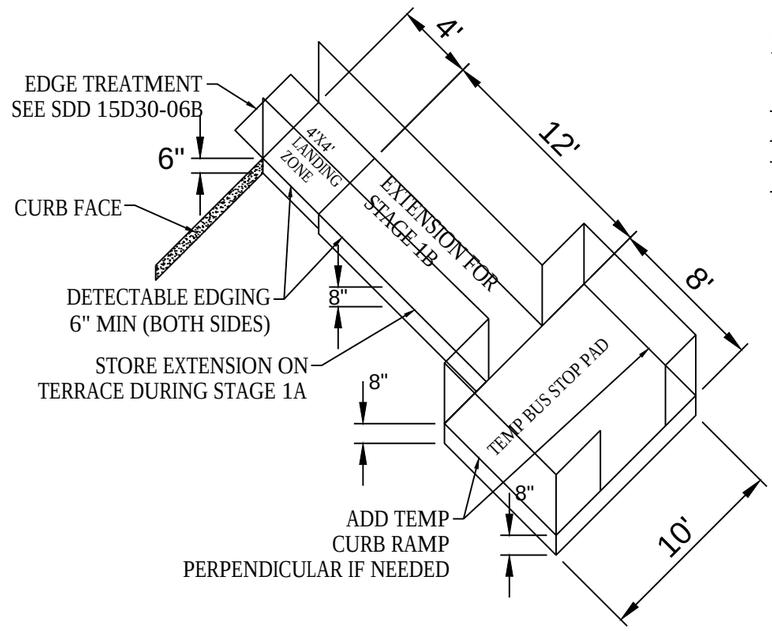


2

STAGE 1B
TEMP BUS PAD EXTENSION DETAIL



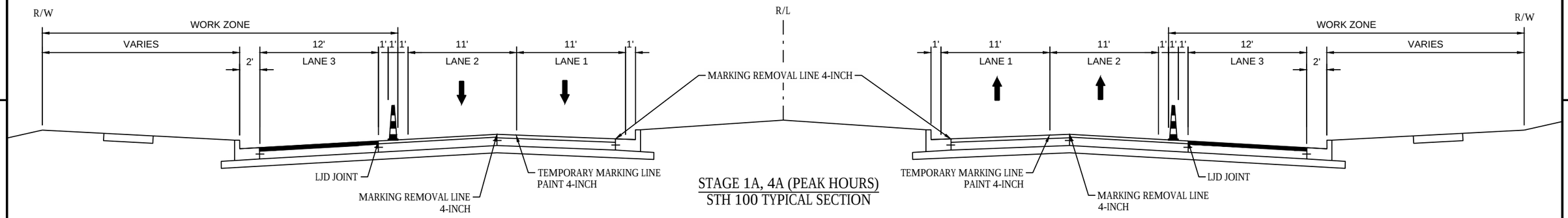
STAGE 1B
TEMP BUS PAD EXTENSION ISOMETRIC VIEW



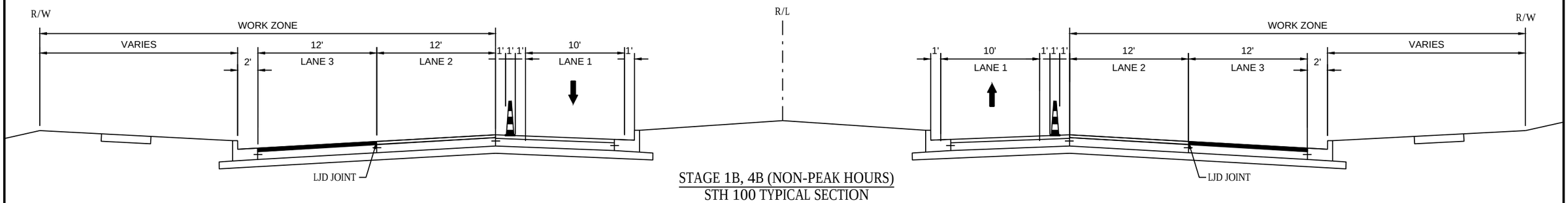
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PLAN: TRAFFIC CONTROL DETAILS	SHEET 312	E

FILE NAME : N:\PDS\C3D\215000001\SHEETSPLAN\025001-TC DETAILS.DWG
LAYOUT NAME - 03
PLOT DATE : 9/29/2020 3:42 PM
PLOT BY : MAY, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

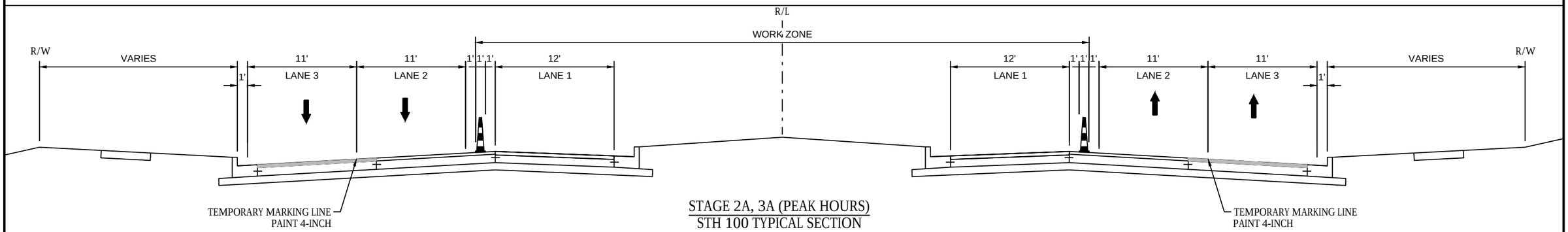
2



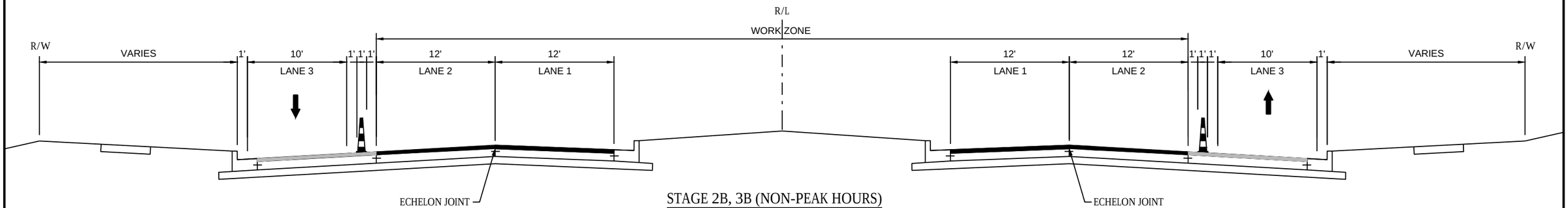
STAGE 1A, 4A (PEAK HOURS)
STH 100 TYPICAL SECTION



STAGE 1B, 4B (NON-PEAK HOURS)
STH 100 TYPICAL SECTION



STAGE 2A, 3A (PEAK HOURS)
STH 100 TYPICAL SECTION



STAGE 2B, 3B (NON-PEAK HOURS)
STH 100 TYPICAL SECTION

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGING TYPICAL SECTIONS	SHEET 313	E

FILE NAME : N:\PDS\C3D\215000001\SHEETSPLAN\025002-TC-STAGING TYP SECS.DWG
LAYOUT NAME - 01
PLOT DATE : 9/8/2020 3:20 PM
PLOT BY : SCHMIDT, JUDENE M
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

LEGEND

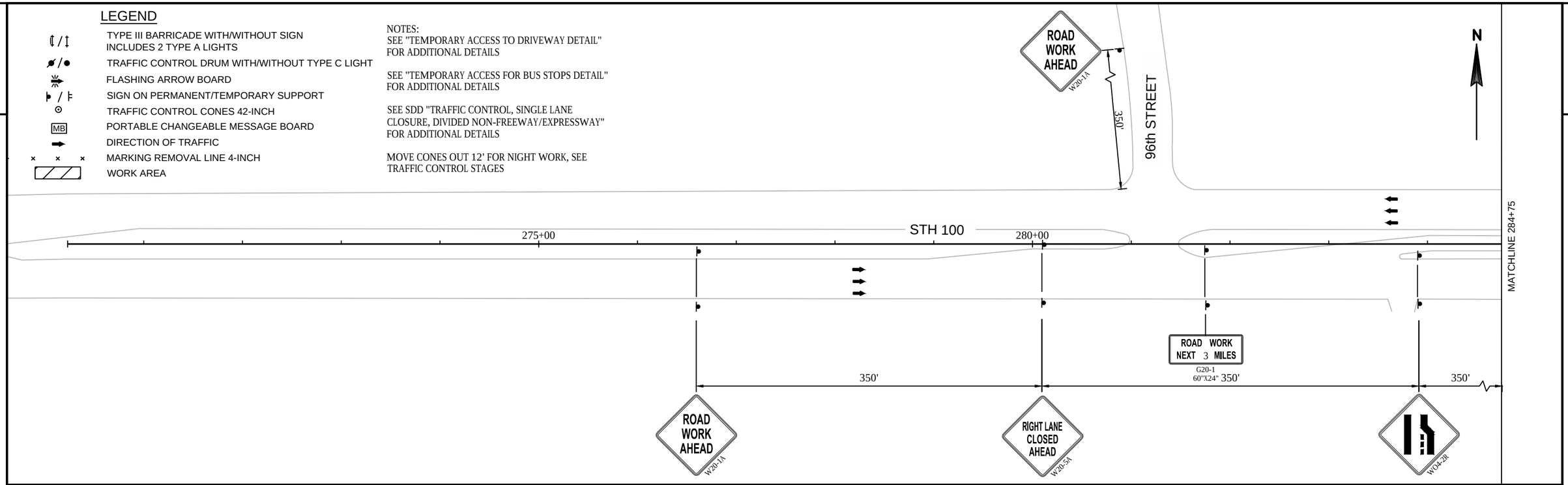
- TYPE III BARRICADE WITH/WITHOUT SIGN INCLUDES 2 TYPE A LIGHTS
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT/TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- DIRECTION OF TRAFFIC
- MARKING REMOVAL LINE 4-INCH
- WORK AREA

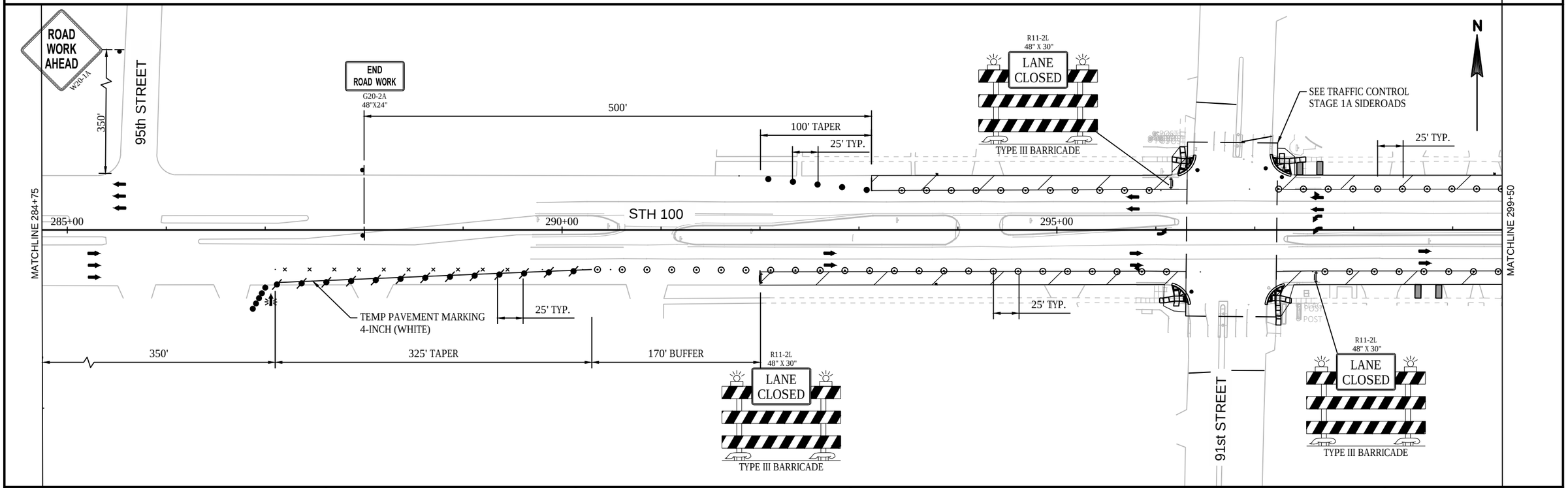
NOTES:
SEE "TEMPORARY ACCESS TO DRIVEWAY DETAIL" FOR ADDITIONAL DETAILS

SEE "TEMPORARY ACCESS FOR BUS STOPS DETAIL" FOR ADDITIONAL DETAILS

SEE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY" FOR ADDITIONAL DETAILS

MOVE CONES OUT 12' FOR NIGHT WORK, SEE TRAFFIC CONTROL STAGES





PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1A MAINLINE	SHEET 314	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\0026101-S1A-MAINLINE.DWG
LAYOUT NAME - 01
PLOT DATE : 9/28/2020 2:28 PM
PLOT BY : MAY, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

2

LEGEND

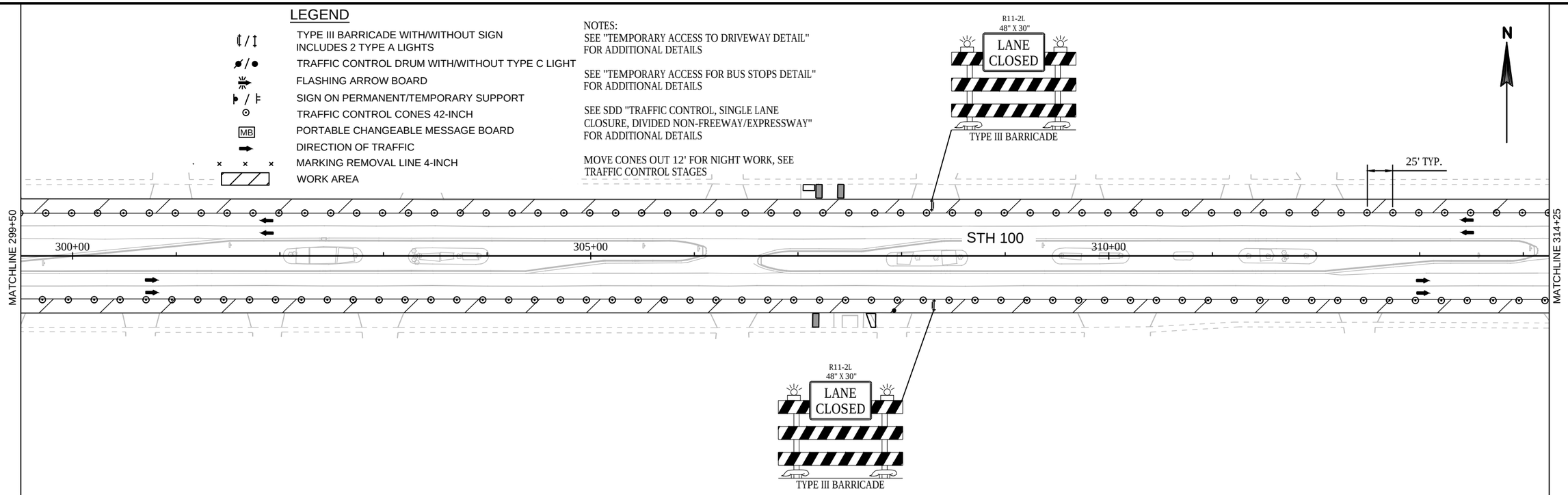
- TYPE III BARRICADE WITH/WITHOUT SIGN INCLUDES 2 TYPE A LIGHTS
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT/TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- PORTABLE CHANGEABLE MESSAGE BOARD (MB)
- DIRECTION OF TRAFFIC
- MARKING REMOVAL LINE 4-INCH
- WORK AREA

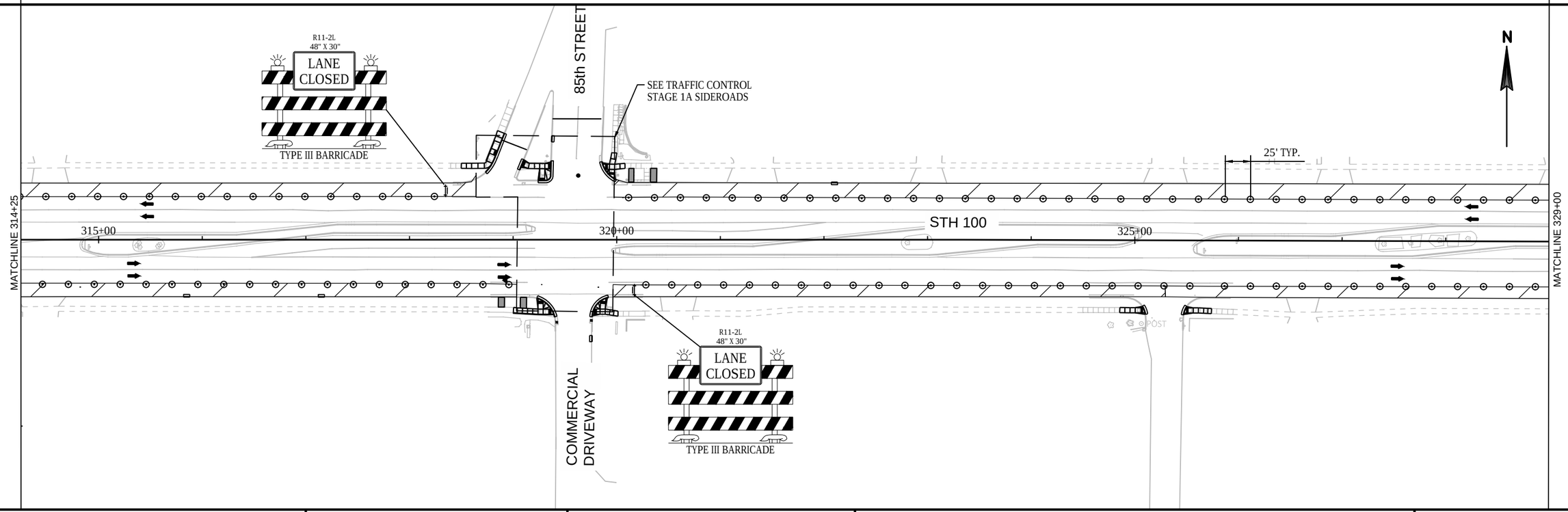
NOTES:
SEE "TEMPORARY ACCESS TO DRIVEWAY DETAIL" FOR ADDITIONAL DETAILS

SEE "TEMPORARY ACCESS FOR BUS STOPS DETAIL" FOR ADDITIONAL DETAILS

SEE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY" FOR ADDITIONAL DETAILS

MOVE CONES OUT 12' FOR NIGHT WORK, SEE TRAFFIC CONTROL STAGES

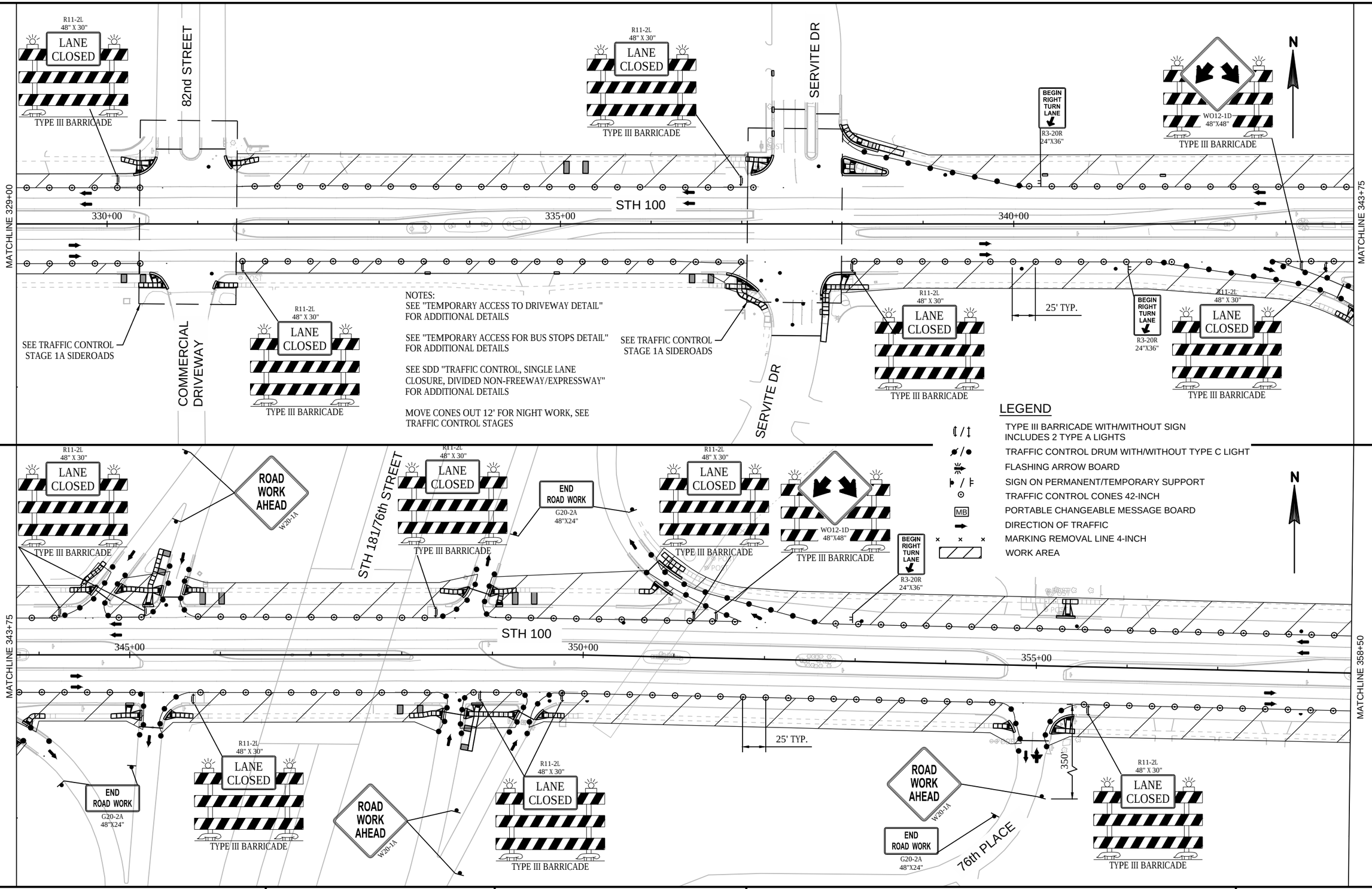




PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1A MAINLINE	SHEET 315	E

FILE NAME : N:\PDS\C3D\215000001\SHEETSPLAN\0261O1-S1A-MAINLINE.DWG
LAYOUT NAME - 02
PLOT DATE : 9/28/2020 2:28 PM
PLOT BY : MAY, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

2



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1A MAINLINE	SHEET 316	E

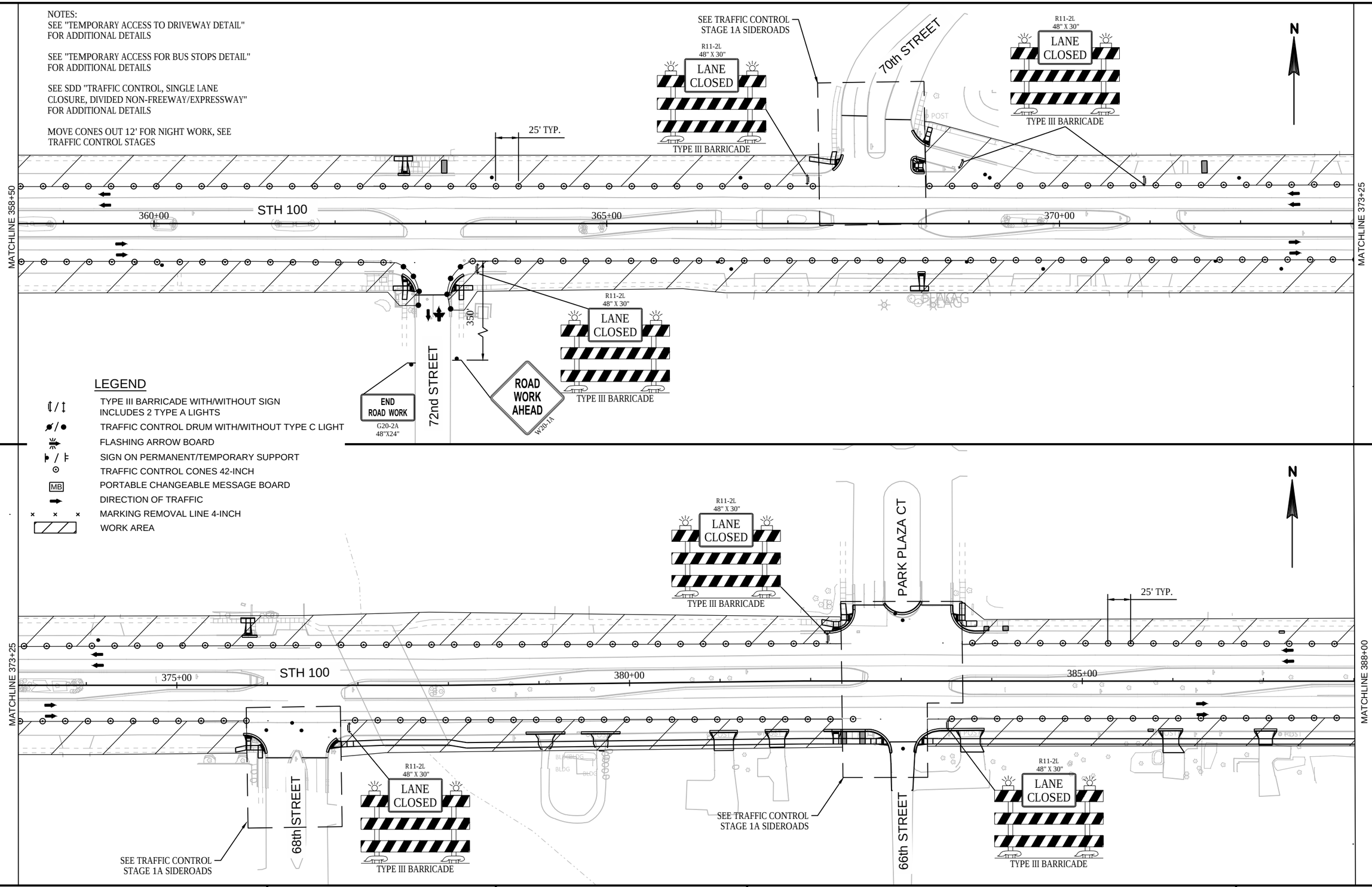
FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\0026101-S1A-MAINLINE.DWG
LAYOUT NAME - 03
PLOT DATE : 9/28/2020 2:29 PM
PLOT BY : MAY, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

NOTES:
SEE "TEMPORARY ACCESS TO DRIVEWAY DETAIL" FOR ADDITIONAL DETAILS

SEE "TEMPORARY ACCESS FOR BUS STOPS DETAIL" FOR ADDITIONAL DETAILS

SEE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY" FOR ADDITIONAL DETAILS

MOVE CONES OUT 12' FOR NIGHT WORK, SEE TRAFFIC CONTROL STAGES



LEGEND

- TYPE III BARRICADE WITH/WITHOUT SIGN INCLUDES 2 TYPE A LIGHTS
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT/TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- DIRECTION OF TRAFFIC
- MARKING REMOVAL LINE 4-INCH
- WORK AREA

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1A MAINLINE	SHEET 317	E

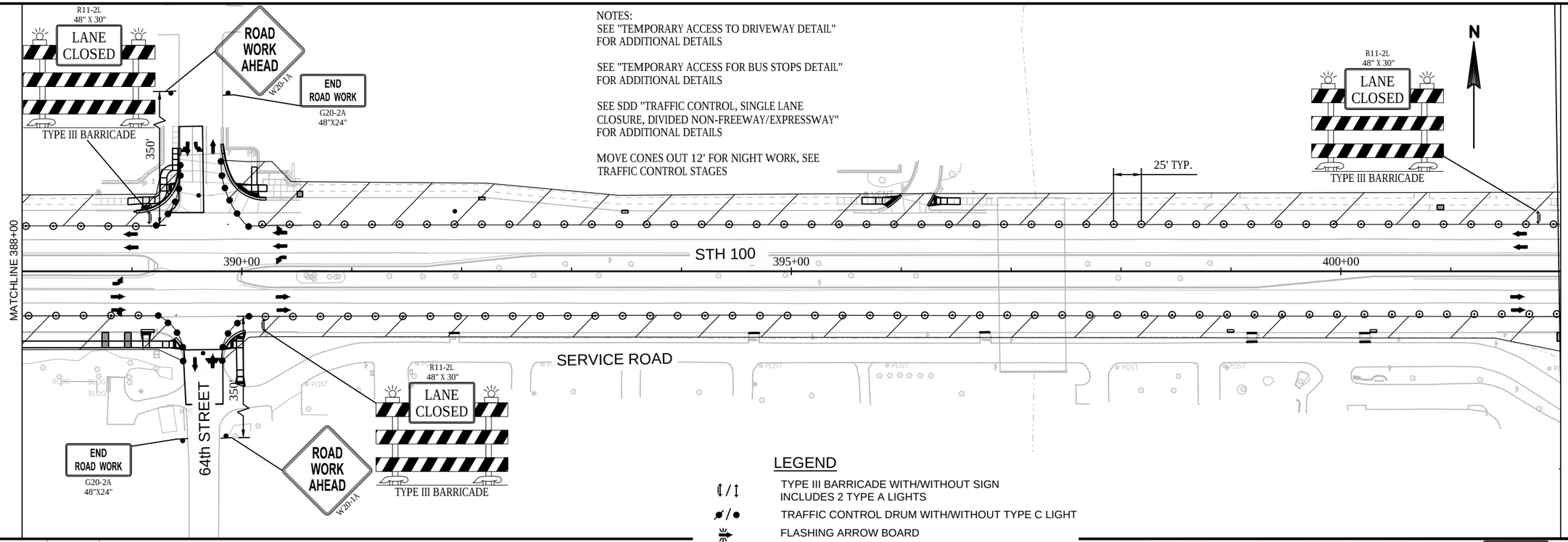
FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\026101-S1A-MAINLINE.DWG
LAYOUT NAME - 04
PLOT DATE : 9/28/2020 2:29 PM
PLOT BY : MAY, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

NOTES:
SEE "TEMPORARY ACCESS TO DRIVEWAY DETAIL" FOR ADDITIONAL DETAILS

SEE "TEMPORARY ACCESS FOR BUS STOPS DETAIL" FOR ADDITIONAL DETAILS

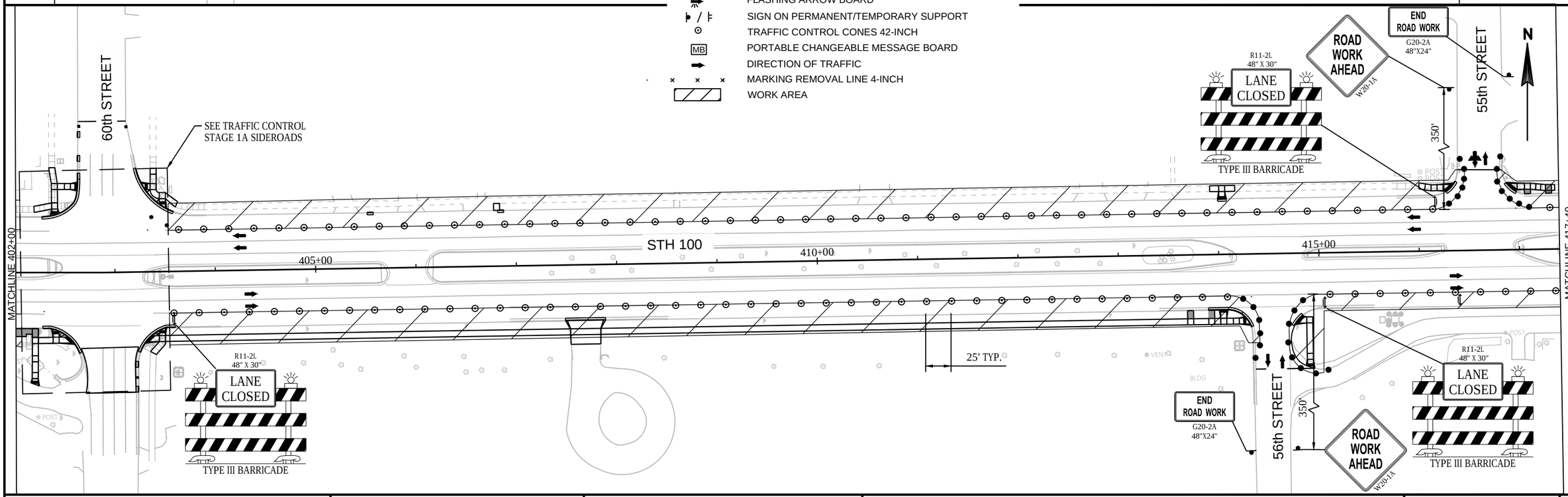
SEE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY" FOR ADDITIONAL DETAILS

MOVE CONES OUT 12' FOR NIGHT WORK, SEE TRAFFIC CONTROL STAGES



LEGEND

- TYPE III BARRICADE WITH/WITHOUT SIGN INCLUDES 2 TYPE A LIGHTS
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT/TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- DIRECTION OF TRAFFIC
- MARKING REMOVAL LINE 4-INCH
- WORK AREA



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1A MAINLINE	SHEET 318	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\0026101-S1A-MAINLINE.DWG
LAYOUT NAME - 05

PLOT DATE : 9/28/2020 2:29 PM PLOT BY : MAY, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

2

NOTES:
SEE "TEMPORARY ACCESS TO DRIVEWAY DETAIL" FOR ADDITIONAL DETAILS

SEE "TEMPORARY ACCESS FOR BUS STOPS DETAIL" FOR ADDITIONAL DETAILS

SEE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY" FOR ADDITIONAL DETAILS

MOVE CONES OUT 12' FOR NIGHT WORK, SEE TRAFFIC CONTROL STAGES

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

25' TYP.

MATCHLINE 417+40

420+00

425+00

STH 100

430+00

MATCHLINE 432+25

SERVICE ROAD

52nd STREET

51st STREET

SEE TRAFFIC CONTROL STAGE 1A SIDEROADS

N

LEGEND

- TYPE III BARRICADE WITH/WITHOUT SIGN INCLUDES 2 TYPE A LIGHTS
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT/TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- DIRECTION OF TRAFFIC
- MARKING REMOVAL LINE 4-INCH
- WORK AREA

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

ARBON DRIVE

350'

435+00

440+00

445+00

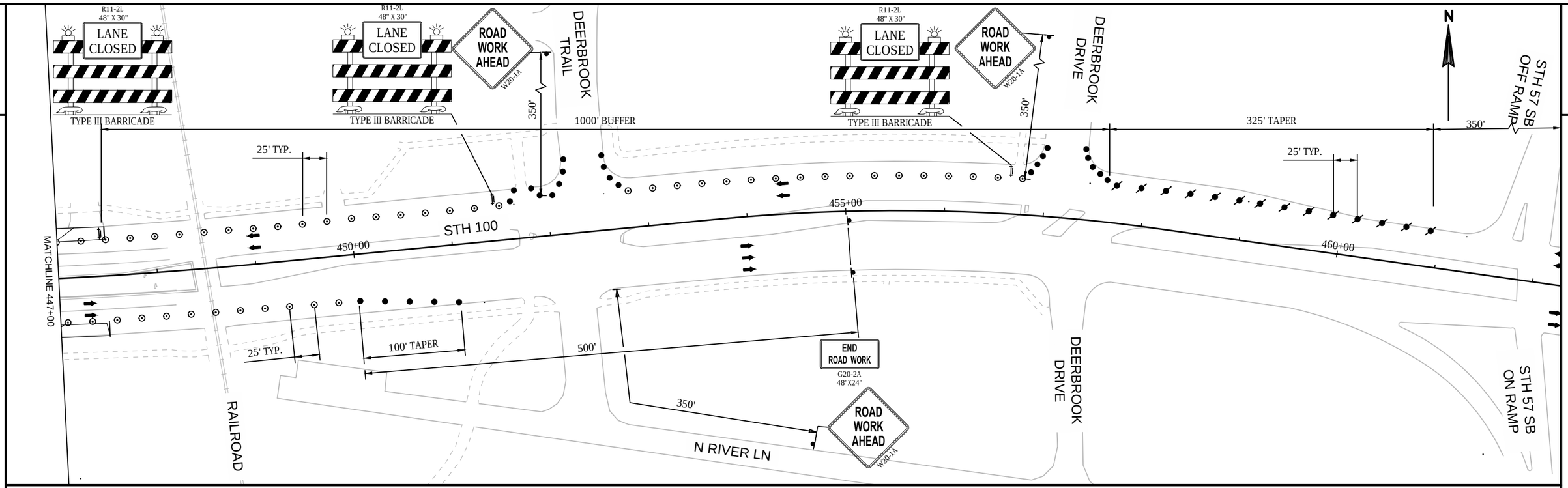
MATCHLINE 447+00

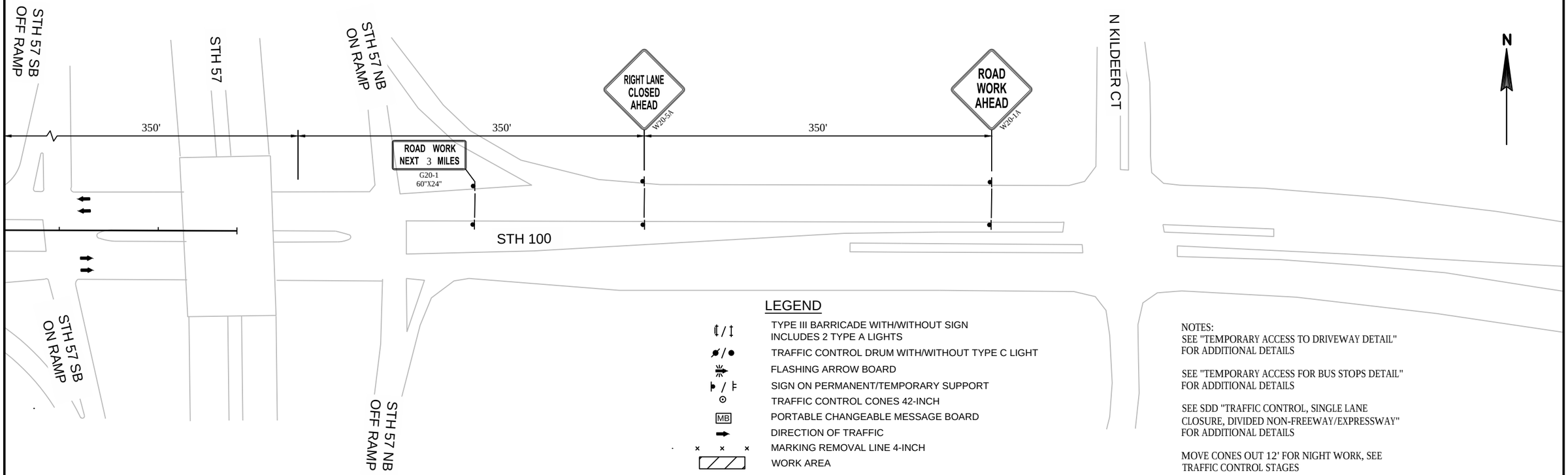
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1A MAINLINE	SHEET 319	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\026101-S1A-MAINLINE.DWG
LAYOUT NAME - 06

PLOT DATE : 9/28/2020 2:30 PM PLOT BY : MAY, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

2





LEGEND

- TYPE III BARRICADE WITH/WITHOUT SIGN INCLUDES 2 TYPE A LIGHTS
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT/TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- DIRECTION OF TRAFFIC
- MARKING REMOVAL LINE 4-INCH
- WORK AREA

NOTES:
SEE "TEMPORARY ACCESS TO DRIVEWAY DETAIL" FOR ADDITIONAL DETAILS

SEE "TEMPORARY ACCESS FOR BUS STOPS DETAIL" FOR ADDITIONAL DETAILS

SEE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY" FOR ADDITIONAL DETAILS

MOVE CONES OUT 12' FOR NIGHT WORK, SEE TRAFFIC CONTROL STAGES

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1A MAINLINE	SHEET 320	E

2

LEGEND

- TYPE III BARRICADE WITH/WITHOUT SIGN INCLUDES 2 TYPE A LIGHTS
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT/TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- PORTABLE CHANGEABLE MESSAGE BOARD
- DIRECTION OF TRAFFIC
- MARKING REMOVAL LINE 4-INCH
- WORK AREA

N

STH 100

N 107th STREET

MAX. 10' WIDTH — W12-52 48"X48"

1/2 MILES AHEAD — WO57-52 48"X36"

STH 100

W12-52 48"X48"

350'

350'

MAX. 10' WIDTH

ROAD WORK AHEAD — W20-1A

N

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1B MAINLINE - TAPER DETAIL	SHEET 321	E

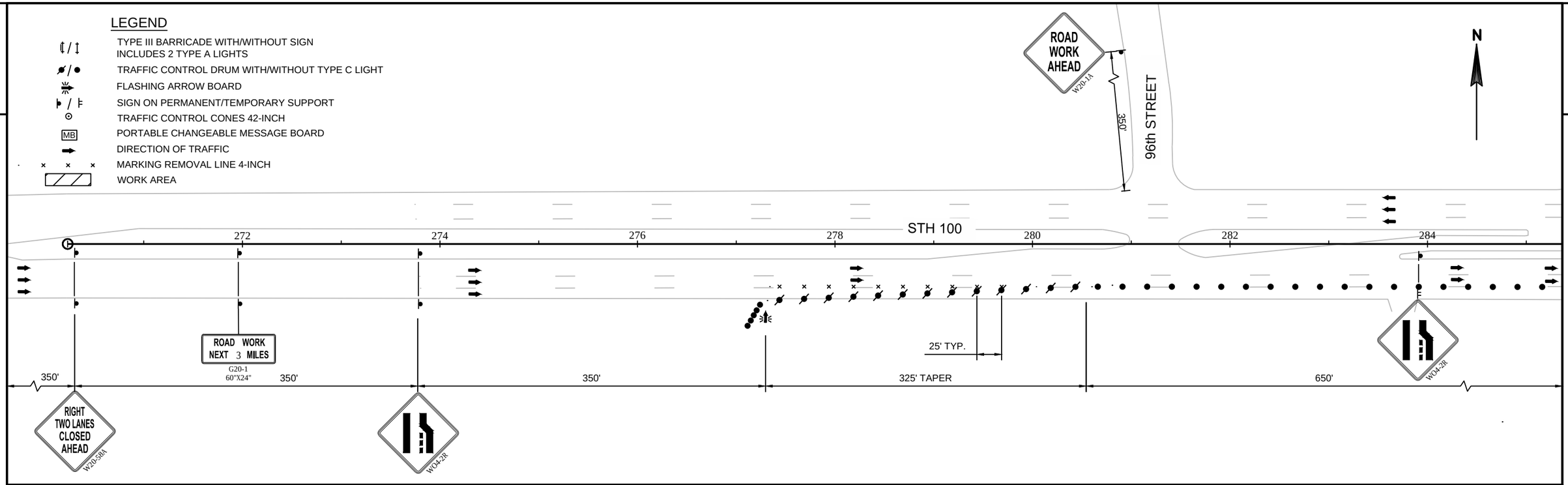
FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\026102-S1B-MAINLINE TAPER.DWG
LAYOUT NAME - 01

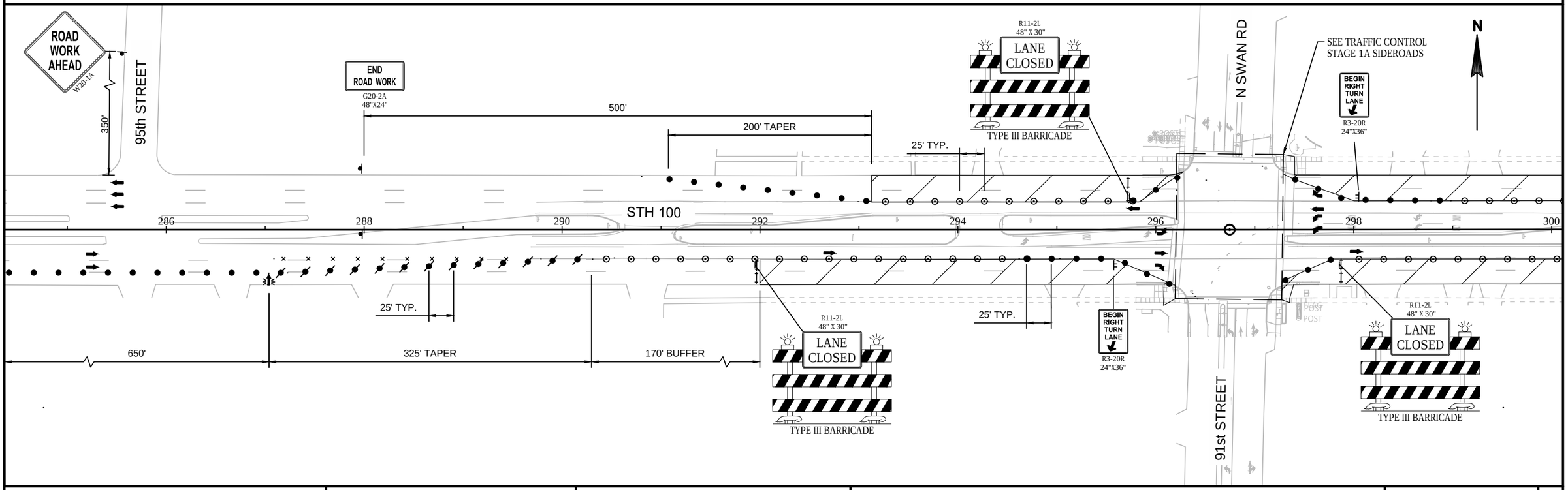
PLOT DATE : 9/28/2020 3:10 PM PLOT BY : MAY, MATTHEW PLOT NAME : PLOT SCALE : ##########

2

LEGEND

- TYPE III BARRICADE WITH/WITHOUT SIGN INCLUDES 2 TYPE A LIGHTS
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT/TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- PORTABLE CHANGEABLE MESSAGE BOARD
- DIRECTION OF TRAFFIC
- MARKING REMOVAL LINE 4-INCH
- WORK AREA



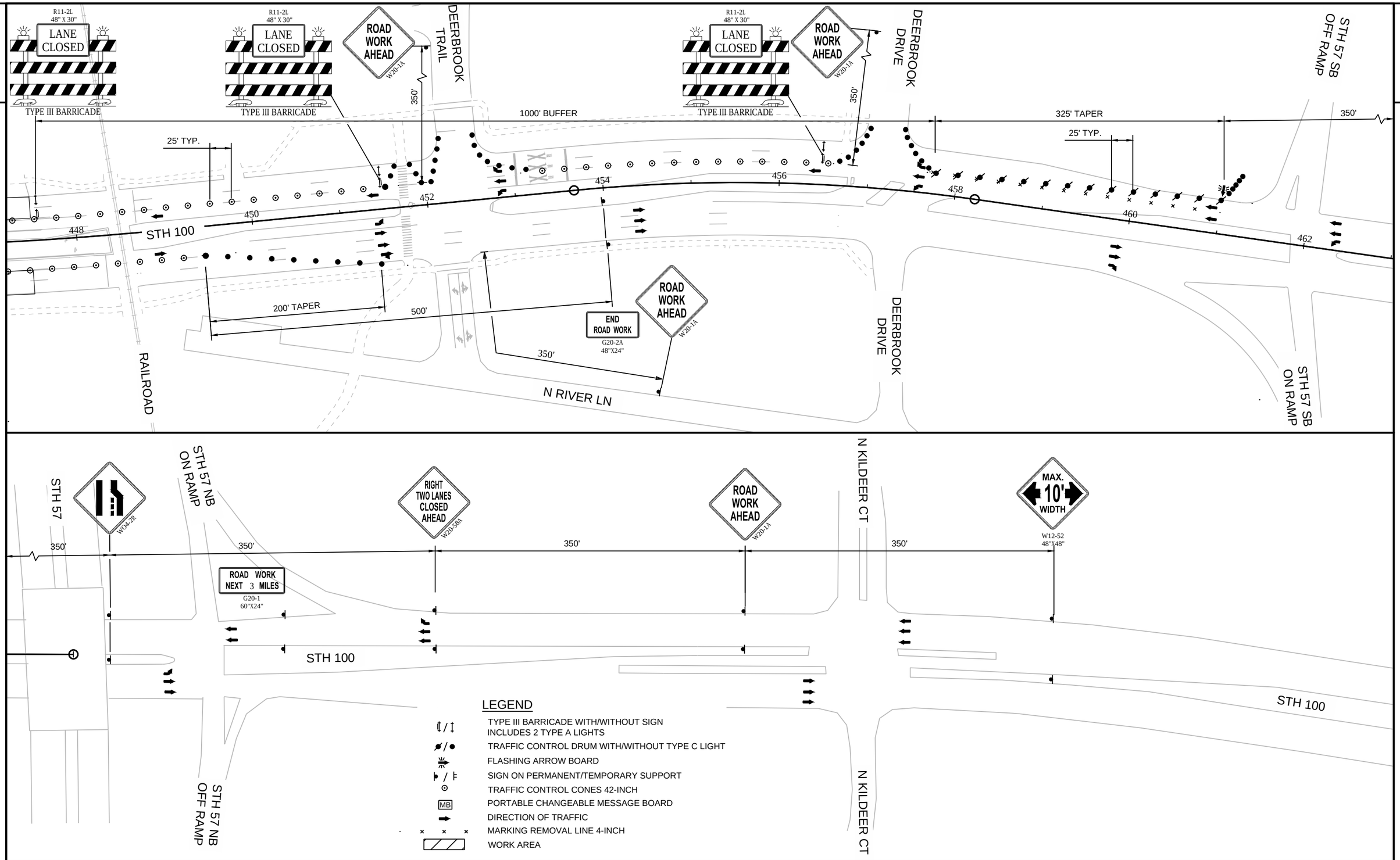


PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1B MAINLINE - TAPER DETAIL	SHEET 322	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\026102-S1B-MAINLINE TAPER.DWG
LAYOUT NAME - 02

PLOT DATE : 9/28/2020 3:10 PM PLOT BY : MAY, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1B MAINLINE - TAPER DETAIL	SHEET 323	E

FILE NAME : N:\PDS\C3D\215000001\SHEETSPLAN\026102-S1B-MAINLINE TAPER.DWG
LAYOUT NAME - 03

PLOT DATE : 9/28/2020 3:10 PM PLOT BY : MAY, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

MILWAUKEE RIVER

N UPPER RIVER RD

STH 100

N

N

LEGEND

- TYPE III BARRICADE WITH/WITHOUT SIGN INCLUDES 2 TYPE A LIGHTS
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT/TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- DIRECTION OF TRAFFIC
- MARKING REMOVAL LINE 4-INCH
- WORK AREA

MAX. 10' WIDTH — W12-52 48"X48"

1/2 MILES AHEAD — WO57-52 48"X36"

N RANGE LINE RD

STH 100

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1B MAINLINE - TAPER DETAIL	SHEET 324	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\026102-S1B-MAINLINE TAPER.DWG
LAYOUT NAME - 04

PLOT DATE : 9/28/2020 3:10 PM PLOT BY : MAY, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

2

N

STH 100

292

294

296

298

300

91st STREET

SWAN BLVD

WO1-6
48" X 24"
TYPE III BARRICADE

BEGIN RIGHT TURN LANE
R3-20R
24"X36"

END ROAD WORK
G20-2A
48"X24"

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

LEFT LANE CLOSED AHEAD
W20-55A

ROAD WORK AHEAD
W20-1A

W04-2L

500'
100'
25'
50'
350'
320' MERGING TAPER
425' BUFFER
85' BUFFER
180' MERGING TAPER
200'
365'
50' TYP.
15'

LEGEND

- TRAFFIC CONTROL SIGN PERMANENT\TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH\WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL 42-INCH CONE
- TRAFFIC CONTROL BARRICADE WITH\WITHOUT SIGN INCLUDES 2 TYPE A LIGHTS
- TRAFFIC FLOW ARROW
- MB PORTABLE CHANGEABLE MESSAGE SIGN
- WORK ZONE

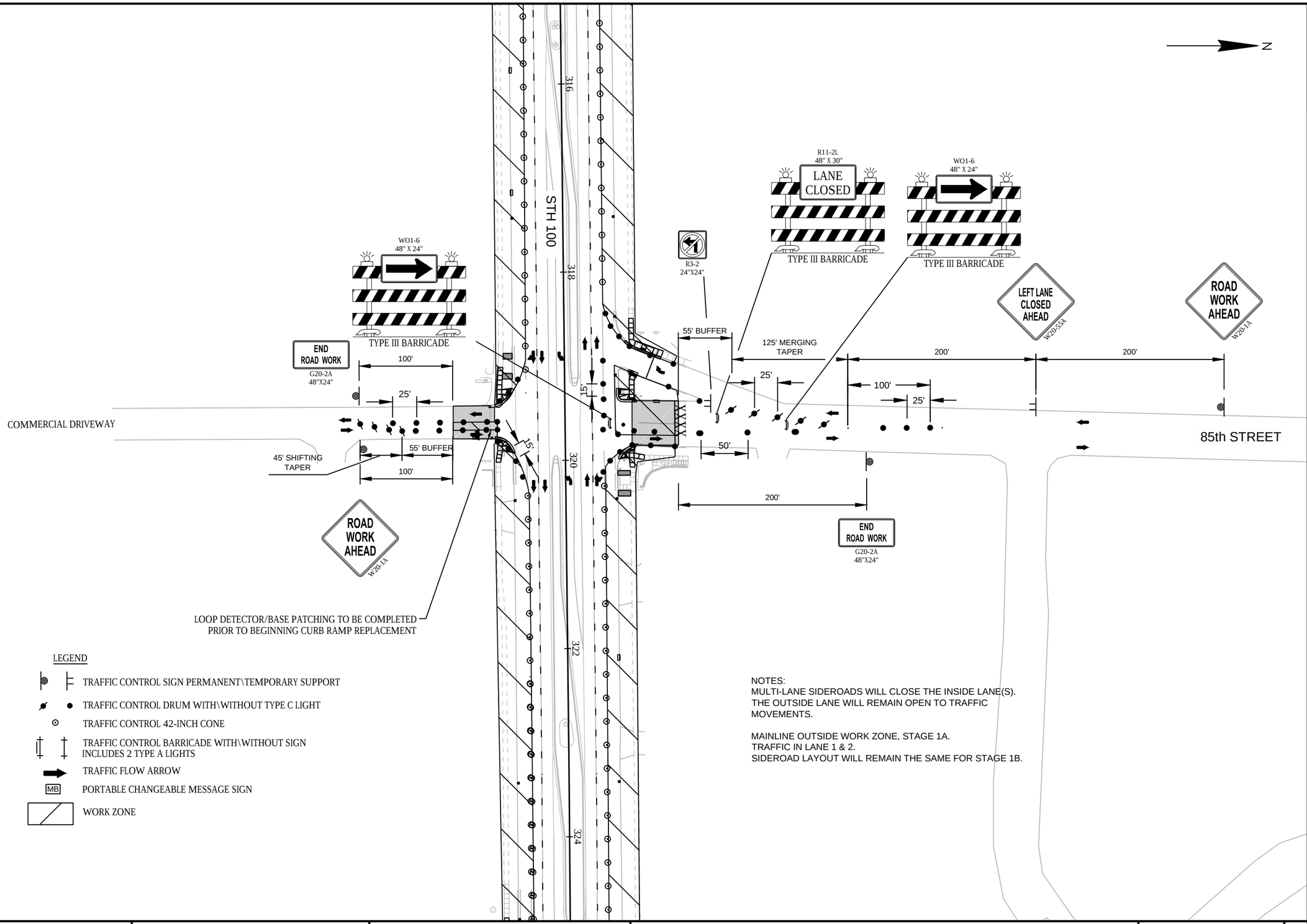
NOTES:
MULTI-LANE SIDEROADS WILL CLOSE THE INSIDE LANE(S).
THE OUTSIDE LANE WILL REMAIN OPEN TO TRAFFIC MOVEMENTS.

MAINLINE OUTSIDE WORK ZONE, STAGE 1A.
TRAFFIC IN LANE 1 & 2.
SIDEROAD LAYOUT WILL REMAIN THE SAME FOR STAGE 1B.

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	STAGE 1AB - SIDEROADS - INSIDE WORK ZONE	SHEET 325	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\026103-S1AB-SIDEROADS INSIDE WZ.DWG
LAYOUT NAME - 01
PLOT DATE : 10/27/2020 9:35 AM
PLOT BY : MAY, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2



LEGEND

- TRAFFIC CONTROL SIGN PERMANENT\TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH\WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL 42-INCH CONE
- TRAFFIC CONTROL BARRICADE WITH\WITHOUT SIGN
  INCLUDES 2 TYPE A LIGHTS
- TRAFFIC FLOW ARROW
- MB PORTABLE CHANGEABLE MESSAGE SIGN
- WORK ZONE

NOTES:
MULTI-LANE SIDEROADS WILL CLOSE THE INSIDE LANE(S).
THE OUTSIDE LANE WILL REMAIN OPEN TO TRAFFIC
MOVEMENTS.

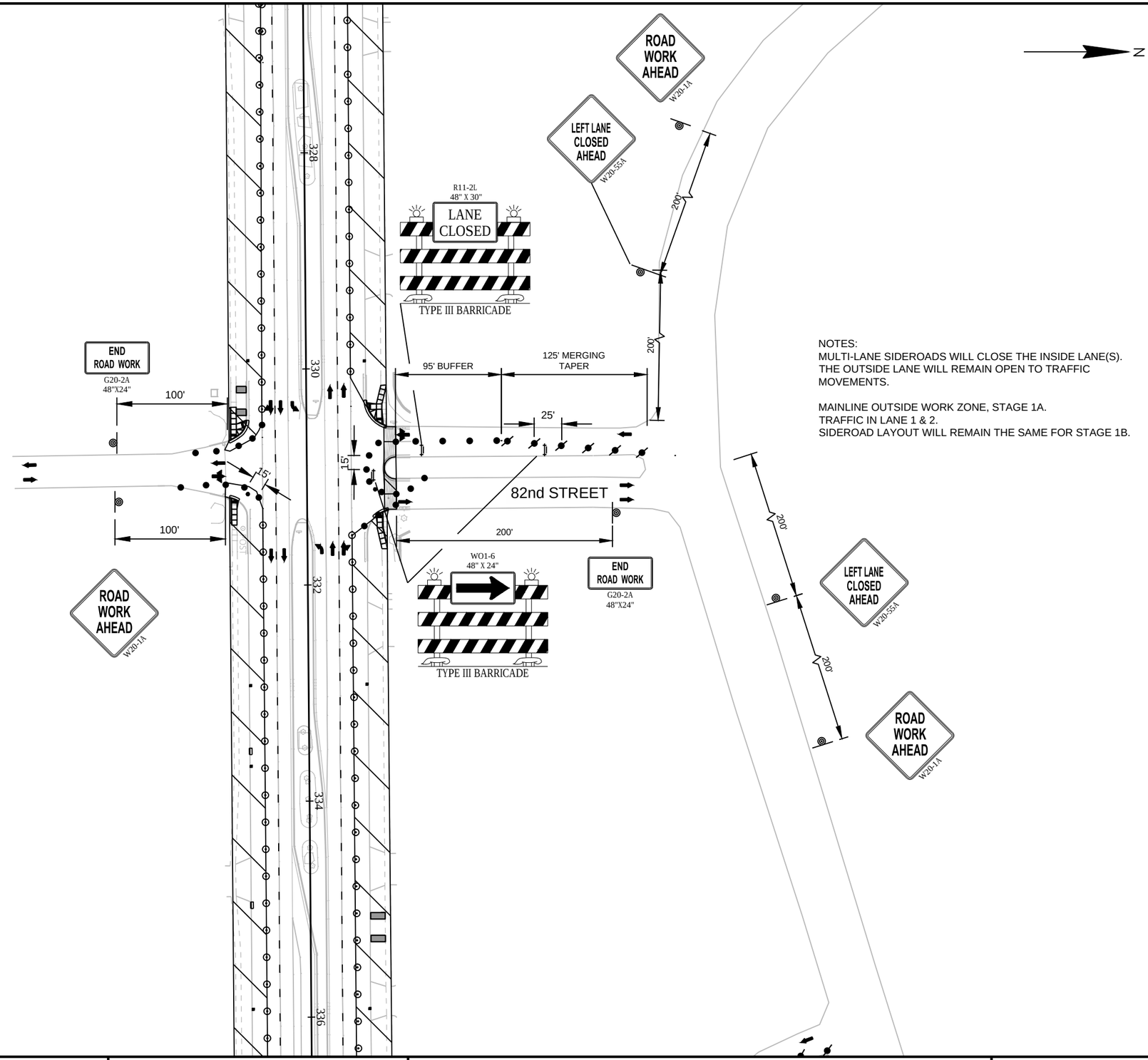
MAINLINE OUTSIDE WORK ZONE, STAGE 1A.
TRAFFIC IN LANE 1 & 2.
SIDEROAD LAYOUT WILL REMAIN THE SAME FOR STAGE 1B.

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	STAGE 1AB - SIDEROADS - INSIDE WORK ZONE	SHEET 326	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\026103-S1AB-SIDEROADS INSIDE WZ.DWG
LAYOUT NAME - 02
PLOT DATE : 10/27/2020 9:35 AM
PLOT BY : MAY, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

LEGEND

- TRAFFIC CONTROL SIGN PERMANENT\TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH\WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL 42-INCH CONE
- TRAFFIC CONTROL BARRICADE WITH\WITHOUT SIGN INCLUDES 2 TYPE A LIGHTS
- TRAFFIC FLOW ARROW
- MB PORTABLE CHANGEABLE MESSAGE SIGN
- WORK ZONE



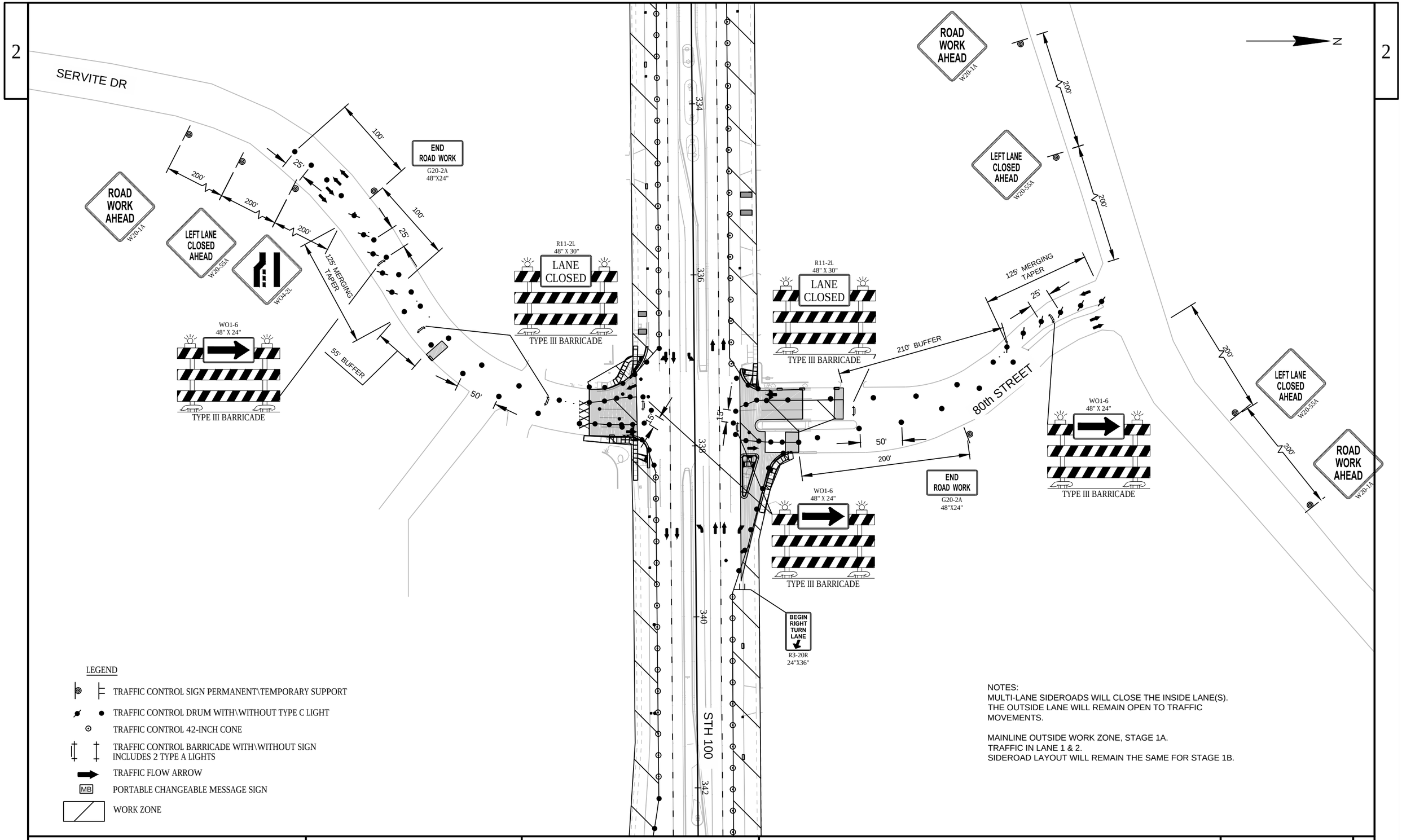
NOTES:
MULTI-LANE SIDEROADS WILL CLOSE THE INSIDE LANE(S). THE OUTSIDE LANE WILL REMAIN OPEN TO TRAFFIC MOVEMENTS.

MAINLINE OUTSIDE WORK ZONE, STAGE 1A.
TRAFFIC IN LANE 1 & 2.
SIDEROAD LAYOUT WILL REMAIN THE SAME FOR STAGE 1B.

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	STAGE 1AB - SIDEROADS - INSIDE WORK ZONE	SHEET 327	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\026103-S1AB-SIDEROADS INSIDE WZ.DWG
LAYOUT NAME - 03
PLOT DATE : 10/27/2020 9:36 AM PLOT BY : MAY, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



LEGEND

- TRAFFIC CONTROL SIGN PERMANENT\TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH\WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL 42-INCH CONE
- TRAFFIC CONTROL BARRICADE WITH\WITHOUT SIGN INCLUDES 2 TYPE A LIGHTS
- TRAFFIC FLOW ARROW
- MB PORTABLE CHANGEABLE MESSAGE SIGN
- WORK ZONE

NOTES:
MULTI-LANE SIDEROADS WILL CLOSE THE INSIDE LANE(S).
THE OUTSIDE LANE WILL REMAIN OPEN TO TRAFFIC MOVEMENTS.

MAINLINE OUTSIDE WORK ZONE, STAGE 1A.
TRAFFIC IN LANE 1 & 2.
SIDEROAD LAYOUT WILL REMAIN THE SAME FOR STAGE 1B.

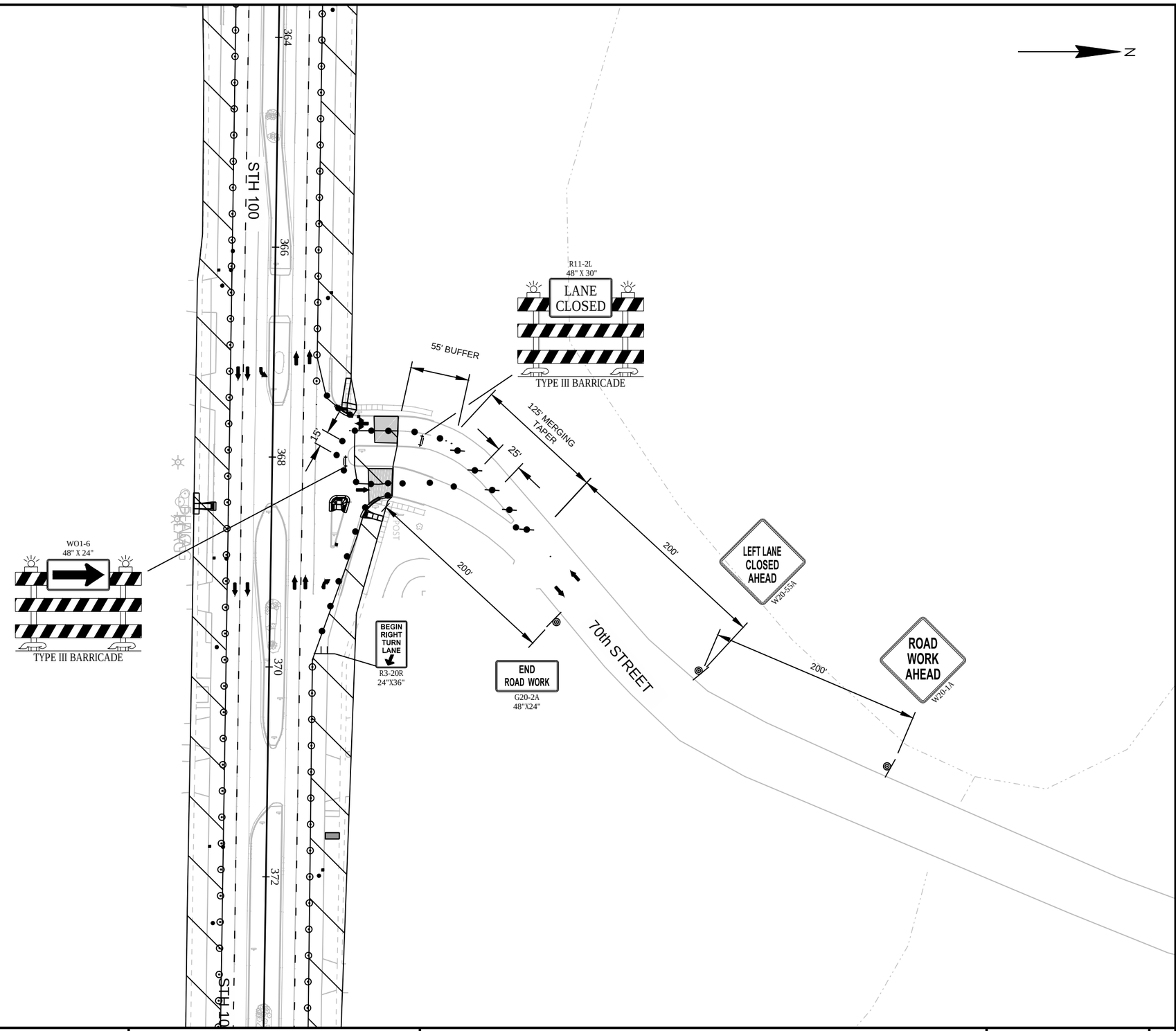
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	STAGE 1AB - SIDEROADS - INSIDE WORK ZONE	SHEET 328	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\026103-S1AB-SIDEROADS INSIDE WZ.DWG
LAYOUT NAME - 04
PLOT DATE : 10/27/2020 9:36 AM
PLOT BY : MAY, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

NOTES:
MULTI-LANE SIDEROADS WILL CLOSE THE INSIDE LANE(S).
THE OUTSIDE LANE WILL REMAIN OPEN TO TRAFFIC MOVEMENTS.

MAINLINE OUTSIDE WORK ZONE, STAGE 1A.
TRAFFIC IN LANE 1 & 2.
SIDEROAD LAYOUT WILL REMAIN THE SAME FOR STAGE 1B.



LEGEND

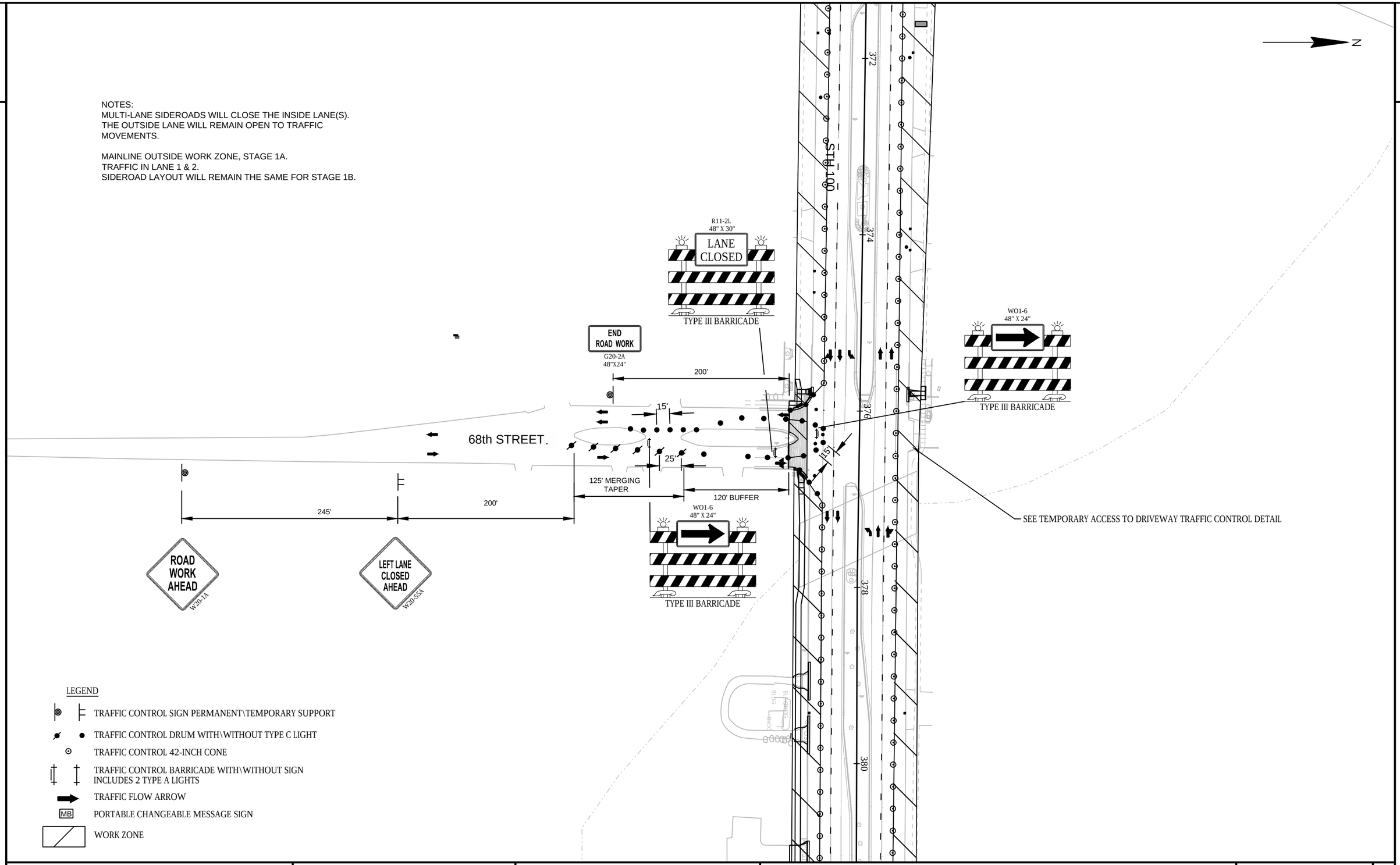
- TRAFFIC CONTROL SIGN PERMANENT\TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH\WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL 42-INCH CONE
- TRAFFIC CONTROL BARRICADE WITH\WITHOUT SIGN INCLUDES 2 TYPE A LIGHTS
- TRAFFIC FLOW ARROW
- MB PORTABLE CHANGEABLE MESSAGE SIGN
- WORK ZONE

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	STAGE 1AB - SIDEROADS - INSIDE WORK ZONE	SHEET 329	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\026103-S1AB-SIDEROADS INSIDE WZ.DWG
LAYOUT NAME - 08
PLOT DATE : 10/27/2020 9:36 AM
PLOT BY : MAY, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

NOTES:
MULTI-LANE SIDEROADS WILL CLOSE THE INSIDE LANE(S).
THE OUTSIDE LANE WILL REMAIN OPEN TO TRAFFIC
MOVEMENTS.

MAINLINE OUTSIDE WORK ZONE, STAGE 1A.
TRAFFIC IN LANE 1 & 2.
SIDEROAD LAYOUT WILL REMAIN THE SAME FOR STAGE 1B.



LEGEND

- TRAFFIC CONTROL SIGN PERMANENT\TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH\WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL 42-INCH CONE
- TRAFFIC CONTROL BARRICADE WITH\WITHOUT SIGN INCLUDES 2 TYPE A LIGHTS
- TRAFFIC FLOW ARROW
- MB PORTABLE CHANGEABLE MESSAGE SIGN
- WORK ZONE

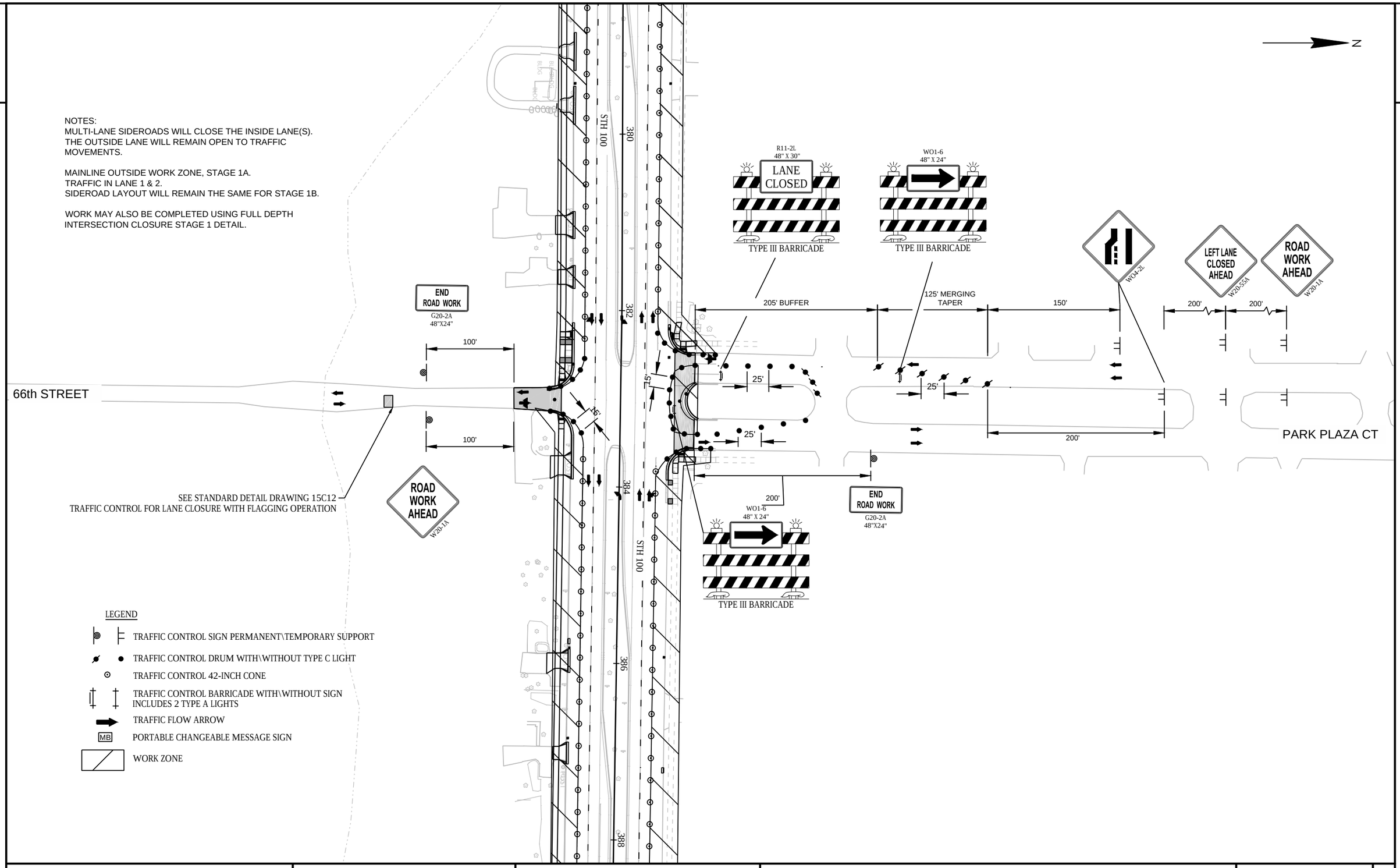
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	STAGE 1AB - SIDEROADS - INSIDE WORK ZONE	SHEET 330	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\026103-S1AB-SIDEROADS INSIDE WZ.DWG
LAYOUT NAME - 09
PLOT DATE : 10/27/2020 9:36 AM PLOT BY : MAY, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

NOTES:
MULTI-LANE SIDEROADS WILL CLOSE THE INSIDE LANE(S).
THE OUTSIDE LANE WILL REMAIN OPEN TO TRAFFIC MOVEMENTS.

MAINLINE OUTSIDE WORK ZONE, STAGE 1A.
TRAFFIC IN LANE 1 & 2.
SIDEROAD LAYOUT WILL REMAIN THE SAME FOR STAGE 1B.

WORK MAY ALSO BE COMPLETED USING FULL DEPTH INTERSECTION CLOSURE STAGE 1 DETAIL.



LEGEND

- TRAFFIC CONTROL SIGN PERMANENT\TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH\WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL 42-INCH CONE
- TRAFFIC CONTROL BARRICADE WITH\WITHOUT SIGN INCLUDES 2 TYPE A LIGHTS
- TRAFFIC FLOW ARROW
- MB PORTABLE CHANGEABLE MESSAGE SIGN
- WORK ZONE

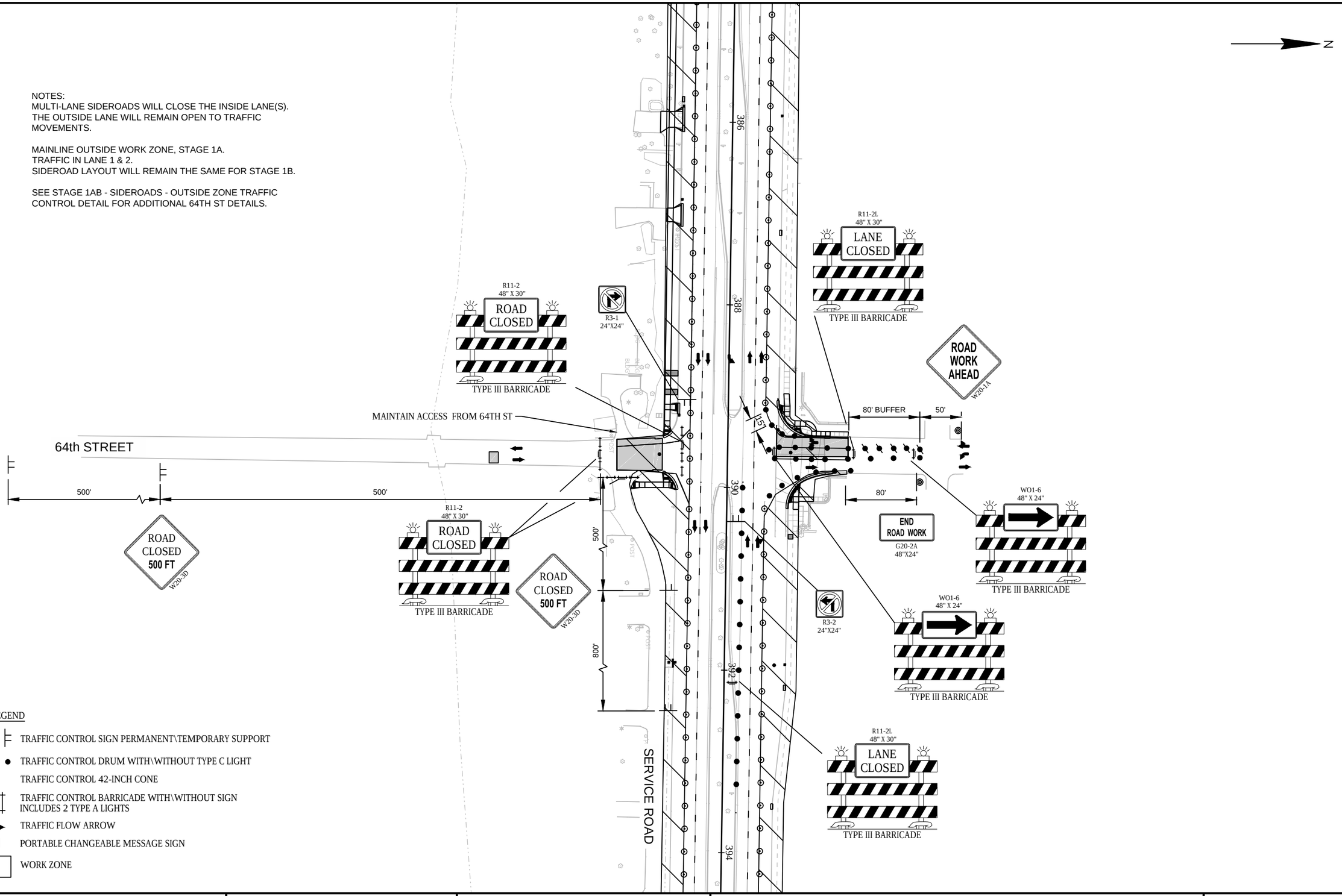
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	STAGE 1AB - SIDEROADS - INSIDE WORK ZONE	SHEET 331	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\026103-S1AB-SIDEROADS INSIDE WZ.DWG
LAYOUT NAME - 10
PLOT DATE : 10/27/2020 9:36 AM
PLOT BY : MAY, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

NOTES:
MULTI-LANE SIDEROADS WILL CLOSE THE INSIDE LANE(S).
THE OUTSIDE LANE WILL REMAIN OPEN TO TRAFFIC MOVEMENTS.

MAINLINE OUTSIDE WORK ZONE, STAGE 1A.
TRAFFIC IN LANE 1 & 2.
SIDEROAD LAYOUT WILL REMAIN THE SAME FOR STAGE 1B.

SEE STAGE 1AB - SIDEROADS - OUTSIDE ZONE TRAFFIC CONTROL DETAIL FOR ADDITIONAL 64TH ST DETAILS.



LEGEND

- TRAFFIC CONTROL SIGN PERMANENT\TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH\WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL 42-INCH CONE
- TRAFFIC CONTROL BARRICADE WITH\WITHOUT SIGN INCLUDES 2 TYPE A LIGHTS
- TRAFFIC FLOW ARROW
- MB PORTABLE CHANGEABLE MESSAGE SIGN
- WORK ZONE

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	STAGE 1AB - SIDEROADS - INSIDE WORK ZONE	SHEET 332	E

2

N

SERVICE ROAD

398

400

402

404

406

60th STREET

WO1-6
48" X 24"

TYPE III BARRICADE

END
ROAD WORK
G20-2A
48"X24"

100'

25'

300'

50'

25'

200'

200'

130' SHIFTING
TAPER

165' BUFFER

ROAD
WORK
AHEAD
W20-1A

LEFT LANE
CLOSED
AHEAD
W20-5SA

R11-2L
48" X 30"

LANE
CLOSED

TYPE III BARRICADE

15'

15'

175' BUFFER

90' SHIFTING
TAPER

200'

200'

50'

25'

100'

460'

LEGEND

- TRAFFIC CONTROL SIGN PERMANENT\TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH\WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL 42-INCH CONE
- TRAFFIC CONTROL BARRICADE WITH\WITHOUT SIGN
  INCLUDES 2 TYPE A LIGHTS
- TRAFFIC FLOW ARROW
- MB PORTABLE CHANGEABLE MESSAGE SIGN
- WORK ZONE

NOTES:
MULTI-LANE SIDEROADS WILL CLOSE THE INSIDE LANE(S).
THE OUTSIDE LANE WILL REMAIN OPEN TO TRAFFIC
MOVEMENTS.

MAINLINE OUTSIDE WORK ZONE, STAGE 1A.
TRAFFIC IN LANE 1 & 2.
SIDEROAD LAYOUT WILL REMAIN THE SAME FOR STAGE 1B.

WORK MAY ALSO BE COMPLETED USING FULL DEPTH
INTERSECTION CLOSURE STAGE 1 DETAIL.

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	STAGE 1AB - SIDEROADS - INSIDE WORK ZONE	SHEET 333	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\026103-S1AB-SIDEROADS INSIDE WZ.DWG
LAYOUT NAME - 12

PLOT DATE : 10/27/2020 9:37 AM PLOT BY : MAY, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

52nd STREET

51st STREET

STH 100

426

428

430

432

434

N

WO1-6
48" X 24"

TYPE III BARRICADE

END
ROAD WORK
G20-2A
48"X24"

200'

50'

25'

90' SHIFTING
TAPER

135' BUFFER

15'

R11-2L
48" X 30"

LANE
CLOSED

ROAD
WORK
AHEAD
W20-1A

LEFT LANE
CLOSED
AHEAD
W20-5SA

175' BUFFER

100'

LEGEND

- TRAFFIC CONTROL SIGN PERMANENT\TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH\WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL 42-INCH CONE
- TRAFFIC CONTROL BARRICADE WITH\WITHOUT SIGN INCLUDES 2 TYPE A LIGHTS
- TRAFFIC FLOW ARROW
- MB PORTABLE CHANGEABLE MESSAGE SIGN
- WORK ZONE

NOTES:
MULTI-LANE SIDEROADS WILL CLOSE THE INSIDE LANE(S). THE OUTSIDE LANE WILL REMAIN OPEN TO TRAFFIC MOVEMENTS.

MAINLINE OUTSIDE WORK ZONE, STAGE 1A.
TRAFFIC IN LANE 1 & 2.
SIDEROAD LAYOUT WILL REMAIN THE SAME FOR STAGE 1B.

WORK MAY ALSO BE COMPLETED USING FULL DEPTH INTERSECTION CLOSURE STAGE 1 DETAIL.

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	STAGE 1AB - SIDEROADS - INSIDE WORK ZONE	SHEET 334	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\026103-S1AB-SIDEROADS INSIDE WZ.DWG
LAYOUT NAME - 14
PLOT DATE : 10/27/2020 9:37 AM
PLOT BY : MAY, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

N

END
ROAD WORK
G20-2A
48"X24"

500'

91st STREET

25'

25'

50'

320' MERGING
TAPER

425' BUFFER

350'

350'

350'

ROAD
WORK
AHEAD
W20-1A

WO4-2R

RIGHT LANE
CLOSED
AHEAD
W20-5A

WO1-6
48" X 24"

TYPE III BARRICADE

R11-2L
48" X 30"

LANE
CLOSED

TYPE III BARRICADE

294

296

298

300

302

STH 100

R11-2L
48" X 30"

LANE
CLOSED

TYPE III BARRICADE

310' BUFFER

120' SHIFTING
TAPER

200'

200'

25'

15'

15'

RIGHT LANE
CLOSED
AHEAD
W20-5A

ROAD
WORK
AHEAD
W20-1A

SWAN BLVD

500'

END
ROAD WORK
G20-2A
48"X24"

LEGEND

- TRAFFIC CONTROL SIGN PERMANENT\TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH\WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL 42-INCH CONE
- TRAFFIC CONTROL BARRICADE WITH\WITHOUT SIGN INCLUDES 2 TYPE A LIGHTS
- TRAFFIC FLOW ARROW
- MB PORTABLE CHANGEABLE MESSAGE SIGN
- WORK ZONE

NOTES:
MULTI-LANE SIDEROADS WILL CLOSE THE OUTSIDE LANE.
THE INSIDE LANE(S) WILL REMAIN OPEN TO TRAFFIC MOVEMENTS.

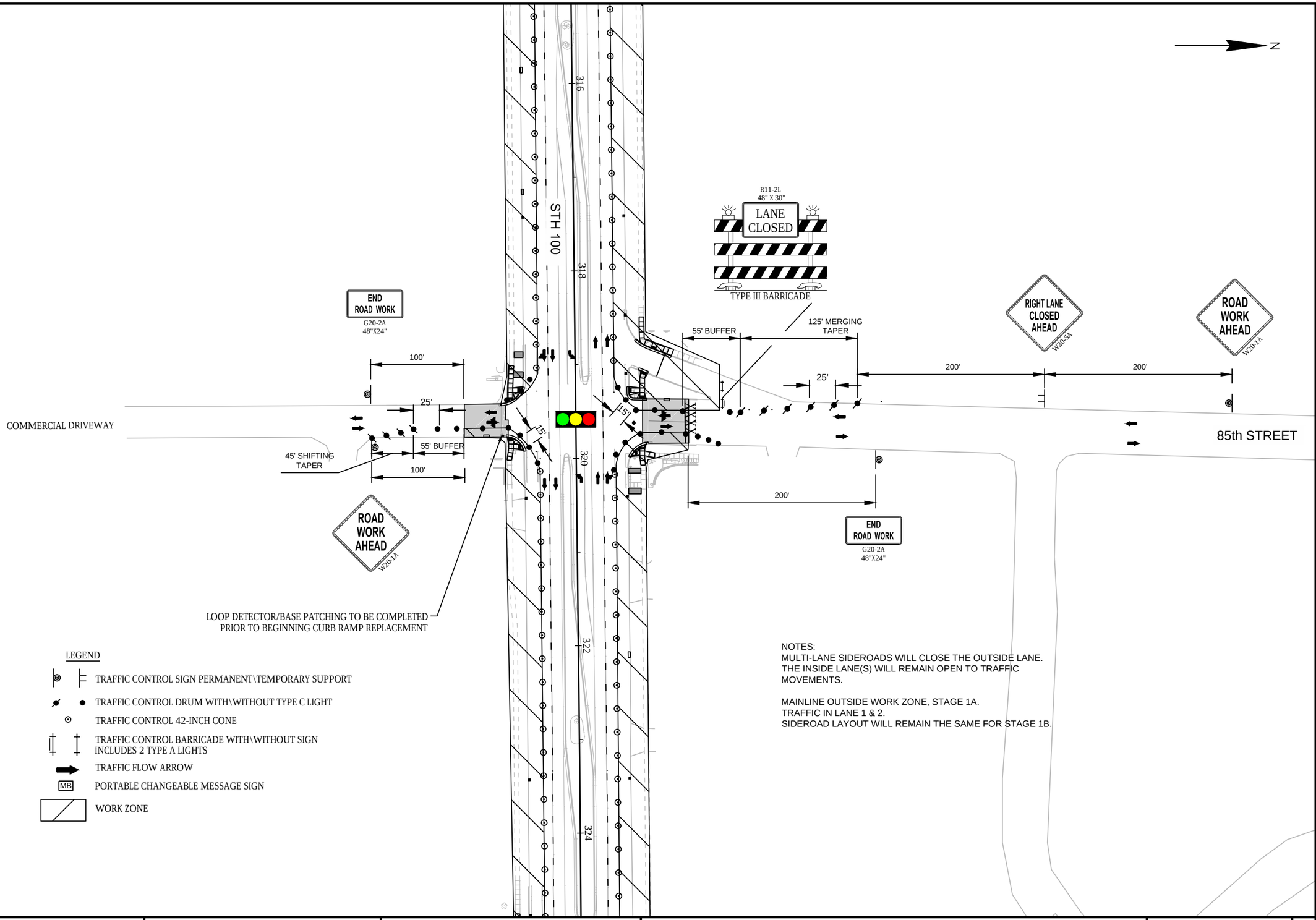
MAINLINE OUTSIDE WORK ZONE, STAGE 1A.
TRAFFIC IN LANE 1 & 2.
SIDEROAD LAYOUT WILL REMAIN THE SAME FOR STAGE 1B.

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	STAGE 1AB - SIDEROADS - OUTSIDE WORK ZONE	SHEET 335	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\026105-S1AB-SIDEROADS OUTSIDE WZ.DWG
LAYOUT NAME - 01

PLOT DATE : 10/27/2020 9:16 AM PLOT BY : MAY, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



LEGEND

- TRAFFIC CONTROL SIGN PERMANENT\TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH\WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL 42-INCH CONE
- TRAFFIC CONTROL BARRICADE WITH\WITHOUT SIGN
  INCLUDES 2 TYPE A LIGHTS
- TRAFFIC FLOW ARROW
- MB PORTABLE CHANGEABLE MESSAGE SIGN
- WORK ZONE

NOTES:
MULTI-LANE SIDEROADS WILL CLOSE THE OUTSIDE LANE.
THE INSIDE LANE(S) WILL REMAIN OPEN TO TRAFFIC
MOVEMENTS.

MAINLINE OUTSIDE WORK ZONE, STAGE 1A.
TRAFFIC IN LANE 1 & 2.
SIDEROAD LAYOUT WILL REMAIN THE SAME FOR STAGE 1B.

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	STAGE 1AB - SIDEROADS - OUTSIDE WORK ZONE	SHEET 336	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\026105-S1AB-SIDEROADS OUTSIDE WZ.DWG
LAYOUT NAME - 02

PLOT DATE : 10/27/2020 9:16 AM PLOT BY : MAY, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

ROAD WORK AHEAD
W20-1A

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

RIGHT LANE CLOSED AHEAD
W20-5A

200'

WO1-6
48" X 24"
TYPE III BARRICADE

200'

END ROAD WORK
G20-2A
48"X24"

95' BUFFER

125' MERGING TAPER

100'

25'

15'

COMMERCIAL DRIVEWAY

15'

82nd STREET

100'

200'

328

330

332

334

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

200'

RIGHT LANE CLOSED AHEAD
W20-5A

200'

ROAD WORK AHEAD
W20-1A

NOTES:
MULTI-LANE SIDEROADS WILL CLOSE THE OUTSIDE LANE.
THE INSIDE LANE(S) WILL REMAIN OPEN TO TRAFFIC MOVEMENTS.

MAINLINE OUTSIDE WORK ZONE, STAGE 1A.
TRAFFIC IN LANE 1 & 2.
SIDEROAD LAYOUT WILL REMAIN THE SAME FOR STAGE 1B.

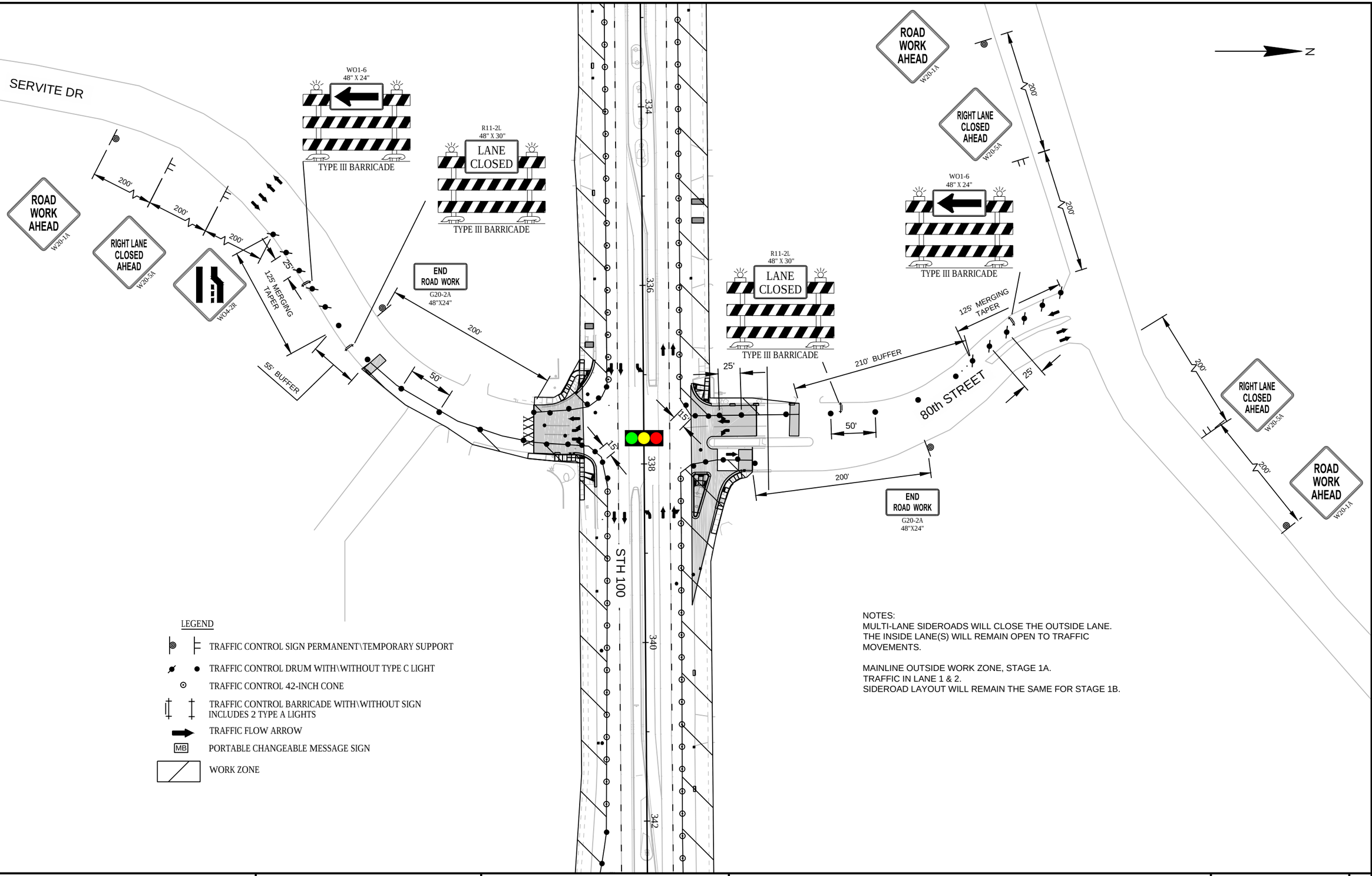
LEGEND

- TRAFFIC CONTROL SIGN PERMANENT\TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH\WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL 42-INCH CONE
- TRAFFIC CONTROL BARRICADE WITH\WITHOUT SIGN INCLUDES 2 TYPE A LIGHTS
- TRAFFIC FLOW ARROW
- MB PORTABLE CHANGEABLE MESSAGE SIGN
- WORK ZONE

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	STAGE 1AB - SIDEROADS - OUTSIDE WORK ZONE	SHEET 337	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\026105-S1AB-SIDEROADS OUTSIDE WZ.DWG
LAYOUT NAME - 03

PLOT DATE : 10/27/2020 9:17 AM PLOT BY : MAY, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT



LEGEND

- TRAFFIC CONTROL SIGN PERMANENT\TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH\WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL 42-INCH CONE
- TRAFFIC CONTROL BARRICADE WITH\WITHOUT SIGN INCLUDES 2 TYPE A LIGHTS
- TRAFFIC FLOW ARROW
- MB PORTABLE CHANGEABLE MESSAGE SIGN
- WORK ZONE

NOTES:
MULTI-LANE SIDEROADS WILL CLOSE THE OUTSIDE LANE.
THE INSIDE LANE(S) WILL REMAIN OPEN TO TRAFFIC MOVEMENTS.

MAINLINE OUTSIDE WORK ZONE, STAGE 1A.
TRAFFIC IN LANE 1 & 2.
SIDEROAD LAYOUT WILL REMAIN THE SAME FOR STAGE 1B.

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	STAGE 1AB - SIDEROADS - OUTSIDE WORK ZONE	SHEET 338	E

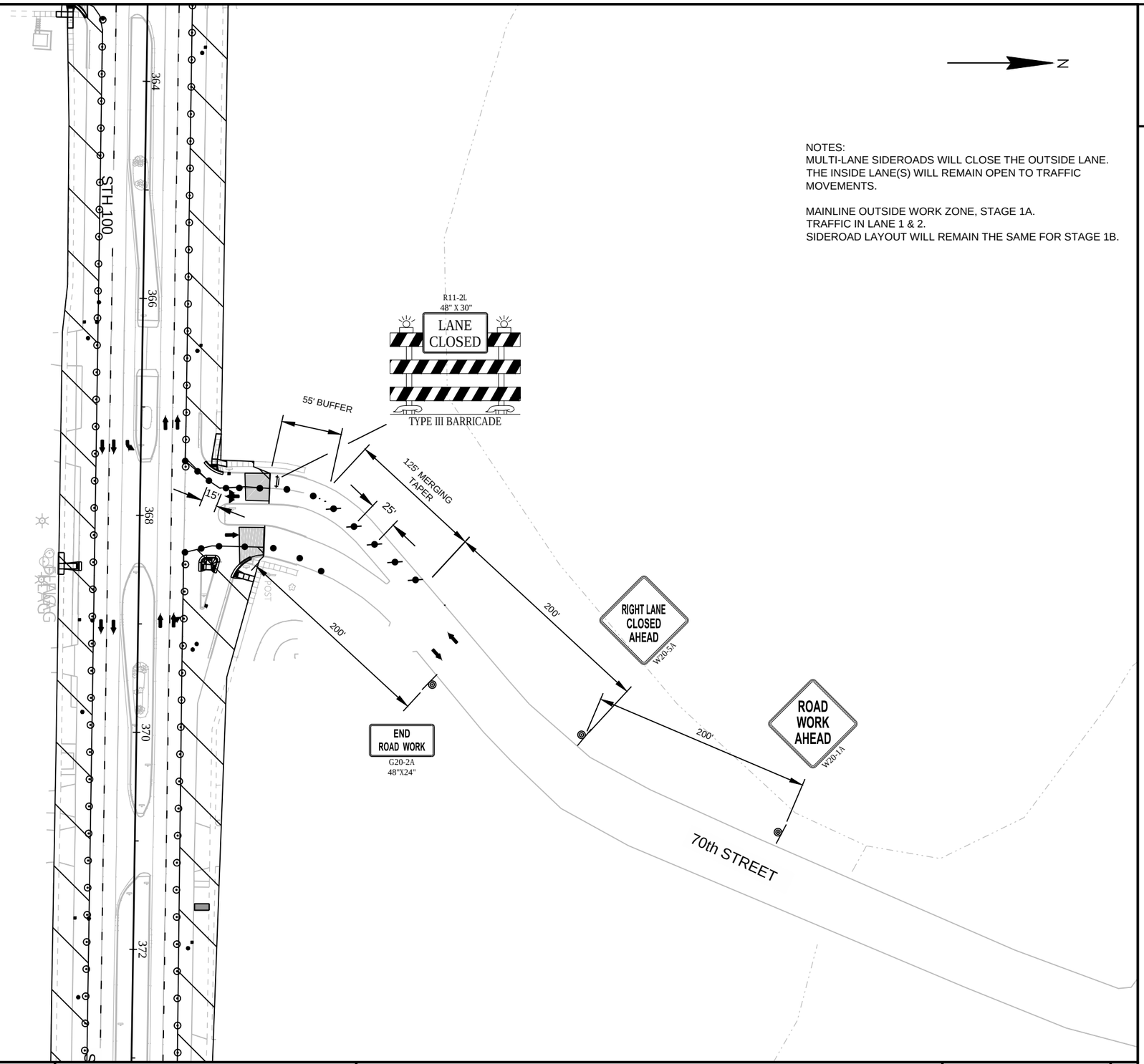
FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\026105-S1AB-SIDEROADS OUTSIDE WZ.DWG
LAYOUT NAME - 04
PLOT DATE : 10/27/2020 9:17 AM
PLOT BY : MAY, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

2

N

NOTES:
MULTI-LANE SIDEROADS WILL CLOSE THE OUTSIDE LANE.
THE INSIDE LANE(S) WILL REMAIN OPEN TO TRAFFIC MOVEMENTS.

MAINLINE OUTSIDE WORK ZONE, STAGE 1A.
TRAFFIC IN LANE 1 & 2.
SIDEROAD LAYOUT WILL REMAIN THE SAME FOR STAGE 1B.



LEGEND

- TRAFFIC CONTROL SIGN PERMANENT\TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH\WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL 42-INCH CONE
- TRAFFIC CONTROL BARRICADE WITH\WITHOUT SIGN INCLUDES 2 TYPE A LIGHTS
- TRAFFIC FLOW ARROW
- MB PORTABLE CHANGEABLE MESSAGE SIGN
- WORK ZONE

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	STAGE 1AB - SIDEROADS - OUTSIDE WORK ZONE	SHEET 339	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\026105-S1AB-SIDEROADS OUTSIDE WZ.DWG
LAYOUT NAME - 08

PLOT DATE : 10/27/2020 9:17 AM PLOT BY : MAY, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

NOTES:
MULTI-LANE SIDEROADS WILL CLOSE THE OUTSIDE LANE.
THE INSIDE LANE(S) WILL REMAIN OPEN TO TRAFFIC MOVEMENTS.

MAINLINE OUTSIDE WORK ZONE, STAGE 1A.
TRAFFIC IN LANE 1 & 2.
SIDEROAD LAYOUT WILL REMAIN THE SAME FOR STAGE 1B.

STH 100

372

374

376

378

380

68th STREET

WO1-6
48" X 24"
TYPE III BARRICADE

END
ROAD WORK
G20-2A
48"X24"

200'

50'

25'

45°

200'

200'

90' SHIFTING
TAPER

200' BUFFER

ROAD
WORK
AHEAD
W20-1A

RIGHT LANE
CLOSED
AHEAD
W20-5A

R11-2L
48" X 30"
LANE
CLOSED
TYPE III BARRICADE

SEE TEMPORARY ACCESS TO DRIVEWAY TRAFFIC CONTROL DETAIL

LEGEND

- TRAFFIC CONTROL SIGN PERMANENT\TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH\WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL 42-INCH CONE
- TRAFFIC CONTROL BARRICADE WITH\WITHOUT SIGN
  INCLUDES 2 TYPE A LIGHTS
- TRAFFIC FLOW ARROW
- MB PORTABLE CHANGEABLE MESSAGE SIGN
- WORK ZONE

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	STAGE 1AB - SIDEROADS - OUTSIDE WORK ZONE	SHEET 340	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\026105-S1AB-SIDEROADS OUTSIDE WZ.DWG
LAYOUT NAME - 09

PLOT DATE : 10/27/2020 9:17 AM PLOT BY : MAY, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

66th STREET

PARK PLAZA CT

STH 100

380

382

384

386

388

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

WO1-6
48" X 24"
TYPE III BARRICADE

WO4-2R

RIGHT LANE CLOSED AHEAD
W20-5M

ROAD WORK AHEAD
W20-1A

55' BUFFER

125' MERGING TAPER

200'

200'

350'

25'

END ROAD WORK
G20-2A
48"X24"

100'

15'

15'

100'

ROAD WORK AHEAD
W20-1A

200'

END ROAD WORK
G20-2A
48"X24"

SEE STANDARD DETAIL DRAWING 15C12
TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

LEGEND

- TRAFFIC CONTROL SIGN PERMANENT\TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH\WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL 42-INCH CONE
- TRAFFIC CONTROL BARRICADE WITH\WITHOUT SIGN INCLUDES 2 TYPE A LIGHTS
- TRAFFIC FLOW ARROW
- MB PORTABLE CHANGEABLE MESSAGE SIGN
- WORK ZONE

NOTES:
MULTI-LANE SIDEROADS WILL CLOSE THE OUTSIDE LANE.
THE INSIDE LANE(S) WILL REMAIN OPEN TO TRAFFIC MOVEMENTS.

MAINLINE OUTSIDE WORK ZONE, STAGE 1A.
TRAFFIC IN LANE 1 & 2.
SIDEROAD LAYOUT WILL REMAIN THE SAME FOR STAGE 1B.

WORK MAY ALSO BE COMPLETED USING FULL DEPTH INTERSECTION CLOSURE STAGE 1 DETAIL.

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	STAGE 1AB - SIDEROADS - OUTSIDE WORK ZONE	SHEET 341	E

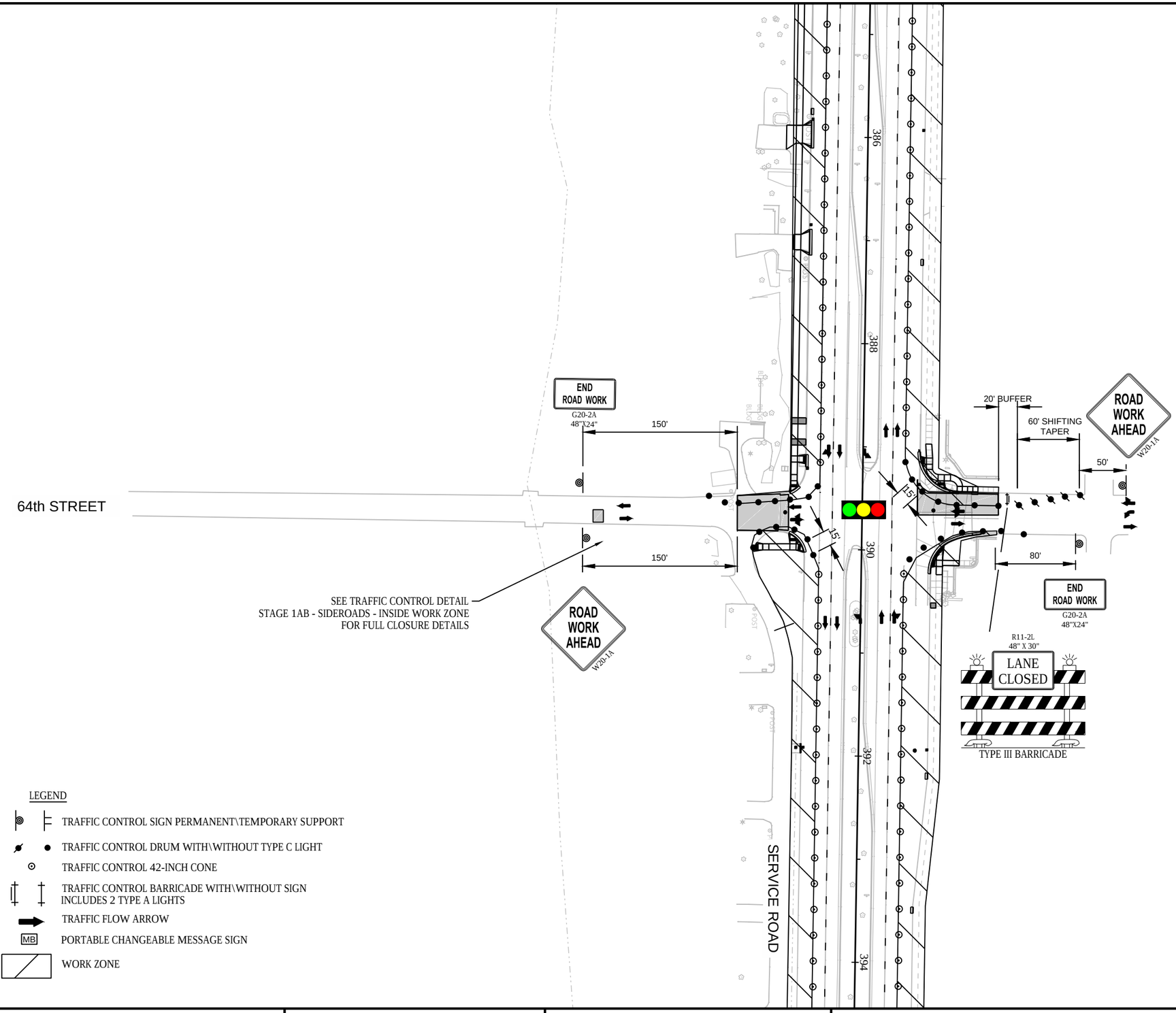
FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\026105-S1AB-SIDEROADS OUTSIDE WZ.DWG
LAYOUT NAME - 10
PLOT DATE : 10/27/2020 9:18 AM
PLOT BY : MAY, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

N

NOTES:
MULTI-LANE SIDEROADS WILL CLOSE THE OUTSIDE LANE.
THE INSIDE LANE(S) WILL REMAIN OPEN TO TRAFFIC MOVEMENTS.

MAINLINE OUTSIDE WORK ZONE, STAGE 1A.
TRAFFIC IN LANE 1 & 2.
SIDEROAD LAYOUT WILL REMAIN THE SAME FOR STAGE 1B.



LEGEND

- TRAFFIC CONTROL SIGN PERMANENT\TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH\WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL 42-INCH CONE
- TRAFFIC CONTROL BARRICADE WITH\WITHOUT SIGN
  INCLUDES 2 TYPE A LIGHTS
- TRAFFIC FLOW ARROW
- MB PORTABLE CHANGEABLE MESSAGE SIGN
- WORK ZONE

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	STAGE 1AB - SIDEROADS - OUTSIDE WORK ZONE	SHEET 342	E

FILE NAME : N:\PDS\C3D\215000001\SHEETSPLAN\026105-S1AB-SIDEROADS OUTSIDE WZ.DWG
LAYOUT NAME - 11
PLOT DATE : 10/27/2020 9:18 AM
PLOT BY : MAY, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

2

N

NOTES:
MULTI-LANE SIDEROADS WILL CLOSE THE OUTSIDE LANE. THE INSIDE LANE(S) WILL REMAIN OPEN TO TRAFFIC MOVEMENTS.

MAINLINE OUTSIDE WORK ZONE, STAGE 1A.
TRAFFIC IN LANE 1 & 2.
SIDEROAD LAYOUT WILL REMAIN THE SAME FOR STAGE 1B.

WORK MAY ALSO BE COMPLETED USING FULL DEPTH INTERSECTION CLOSURE STAGE 1 DETAIL.

SERVICE ROAD

398
400
402
404
406

WO1-6
48" X 24"
TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

END ROAD WORK
G20-2A
48"X24"

300'
50'
15'
60' SHIFTING TAPER
200'
200'
25' BUFFER

ROAD WORK AHEAD
W20-1A

RIGHT LANE CLOSED AHEAD
W20-5A

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

WO1-6
48" X 24"
TYPE III BARRICADE

RIGHT LANE CLOSED AHEAD
W20-5A

ROAD WORK AHEAD
W20-1A

175' BUFFER
90' SHIFTING TAPER
200'
200'
50'
15'

60th STREET

460'

END ROAD WORK
G20-2A
48"X24"

LEGEND

- TRAFFIC CONTROL SIGN PERMANENT\TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH\WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL 42-INCH CONE
- TRAFFIC CONTROL BARRICADE WITH\WITHOUT SIGN INCLUDES 2 TYPE A LIGHTS
- TRAFFIC FLOW ARROW
- MB PORTABLE CHANGEABLE MESSAGE SIGN
- WORK ZONE

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	STAGE 1AB - SIDEROADS - OUTSIDE WORK ZONE	SHEET 343	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\026105-S1AB-SIDEROADS OUTSIDE WZ.DWG
LAYOUT NAME - 12

PLOT DATE : 10/27/2020 9:18 AM PLOT BY : MAY, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

52nd STREET

51st STREET

STH 100

426

428

430

432

434

N

END ROAD WORK
G20-2A
48"X24"

200'

25'

15'

240'

200'

110' BUFFER

75' SHIFTING TAPER

ROAD WORK AHEAD
W20-1A

RIGHT LANE CLOSED AHEAD
W20-5A

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

WO1-6
48" X 24"
TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

WO1-6
48" X 24"
TYPE III BARRICADE

140' BUFFER

90' SHIFTING TAPER

200'

235'

50'

200'

RIGHT LANE CLOSED AHEAD
W20-5A

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

LEGEND

- TRAFFIC CONTROL SIGN PERMANENT\TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH\WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL 42-INCH CONE
- TRAFFIC CONTROL BARRICADE WITH\WITHOUT SIGN INCLUDES 2 TYPE A LIGHTS
- TRAFFIC FLOW ARROW
- MB PORTABLE CHANGEABLE MESSAGE SIGN
- WORK ZONE

NOTES:
MULTI-LANE SIDEROADS WILL CLOSE THE OUTSIDE LANE.
THE INSIDE LANE(S) WILL REMAIN OPEN TO TRAFFIC MOVEMENTS.

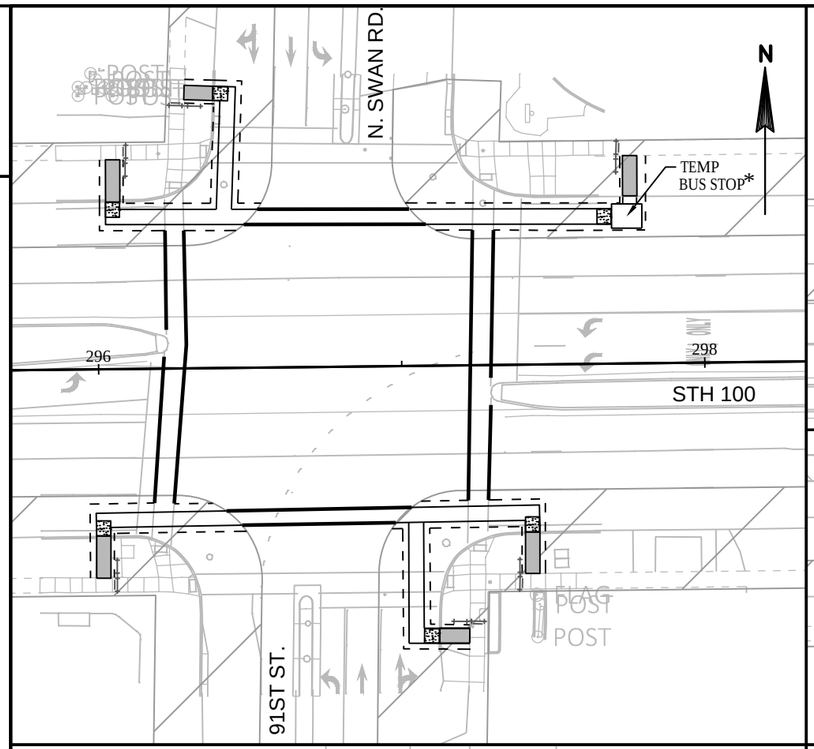
MAINLINE OUTSIDE WORK ZONE, STAGE 1A.
TRAFFIC IN LANE 1 & 2.
SIDEROAD LAYOUT WILL REMAIN THE SAME FOR STAGE 1B.

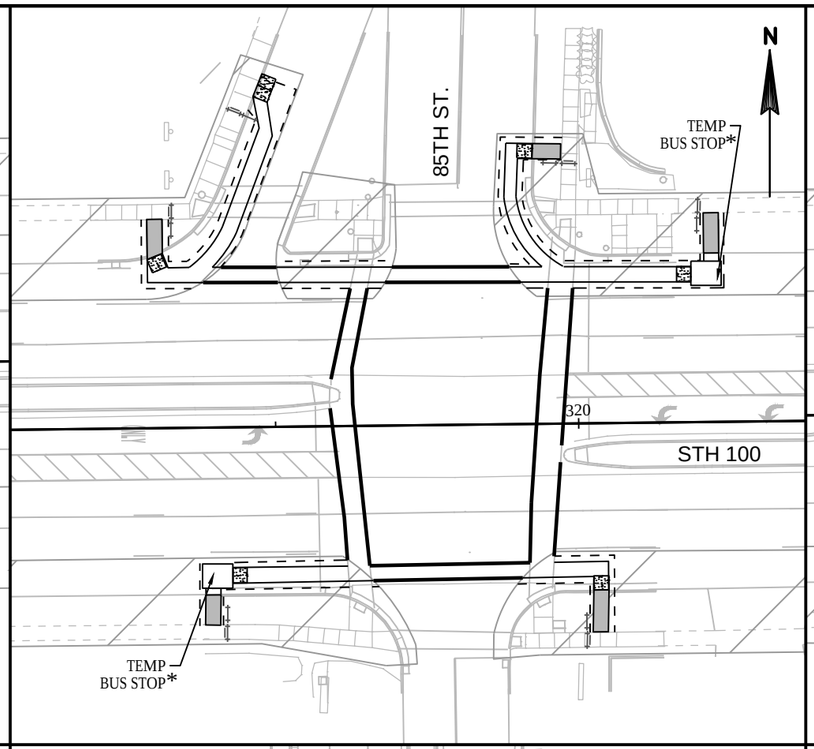
WORK MAY ALSO BE COMPLETED USING FULL DEPTH INTERSECTION CLOSURE STAGE 1 DETAIL.

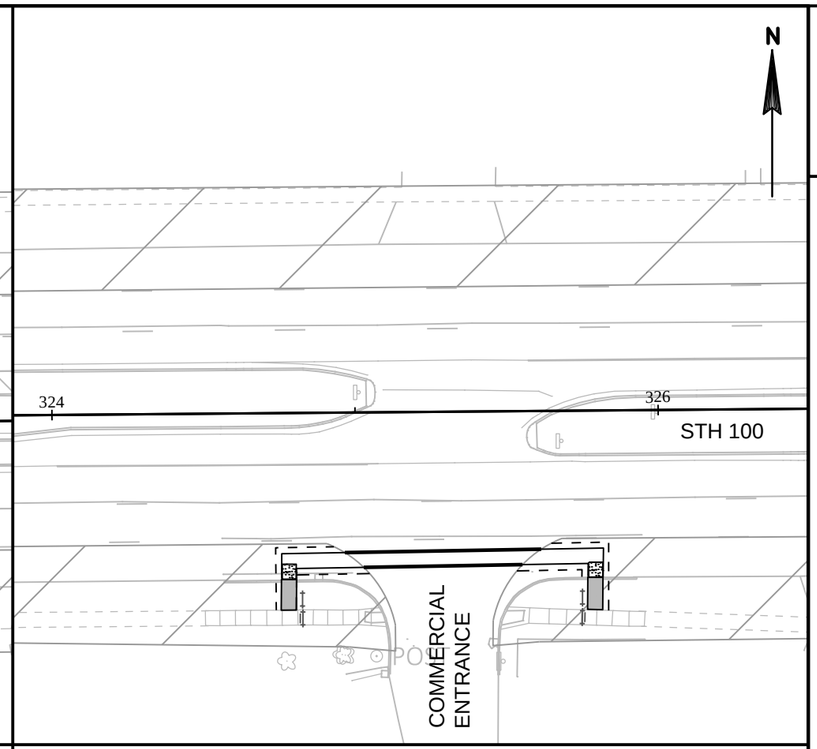
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	STAGE 1AB - SIDEROADS - OUTSIDE WORK ZONE	SHEET 344	E

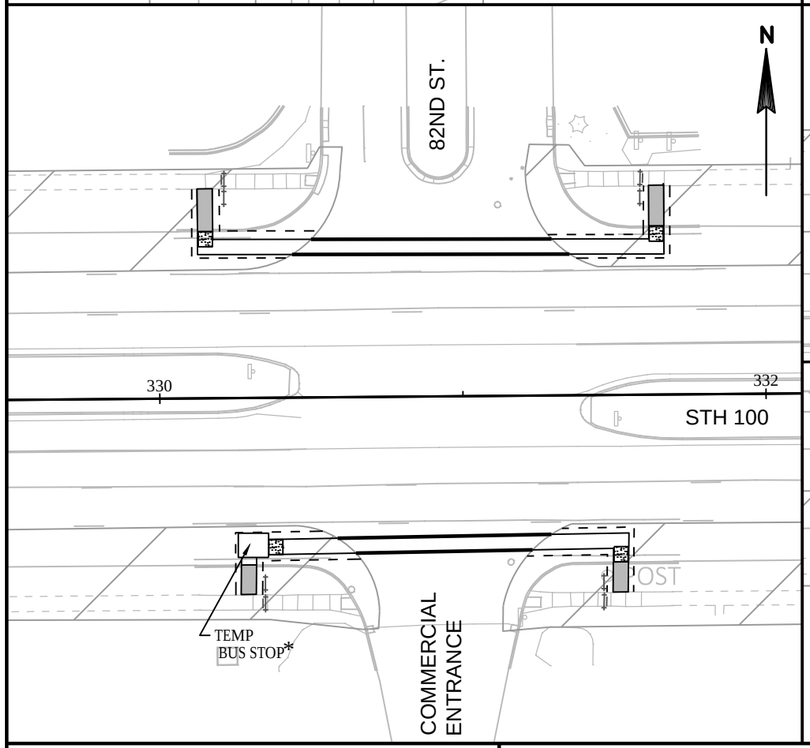
FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\026105-S1AB-SIDEROADS OUTSIDE WZ.DWG
LAYOUT NAME - 14

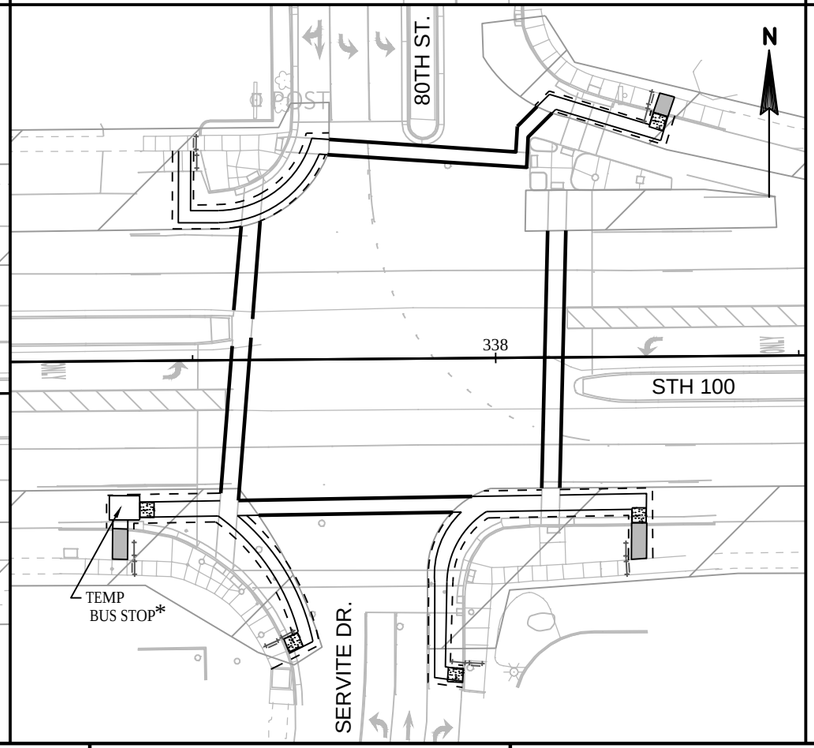
PLOT DATE : 10/27/2020 9:18 AM PLOT BY : MAY, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT











LEGEND

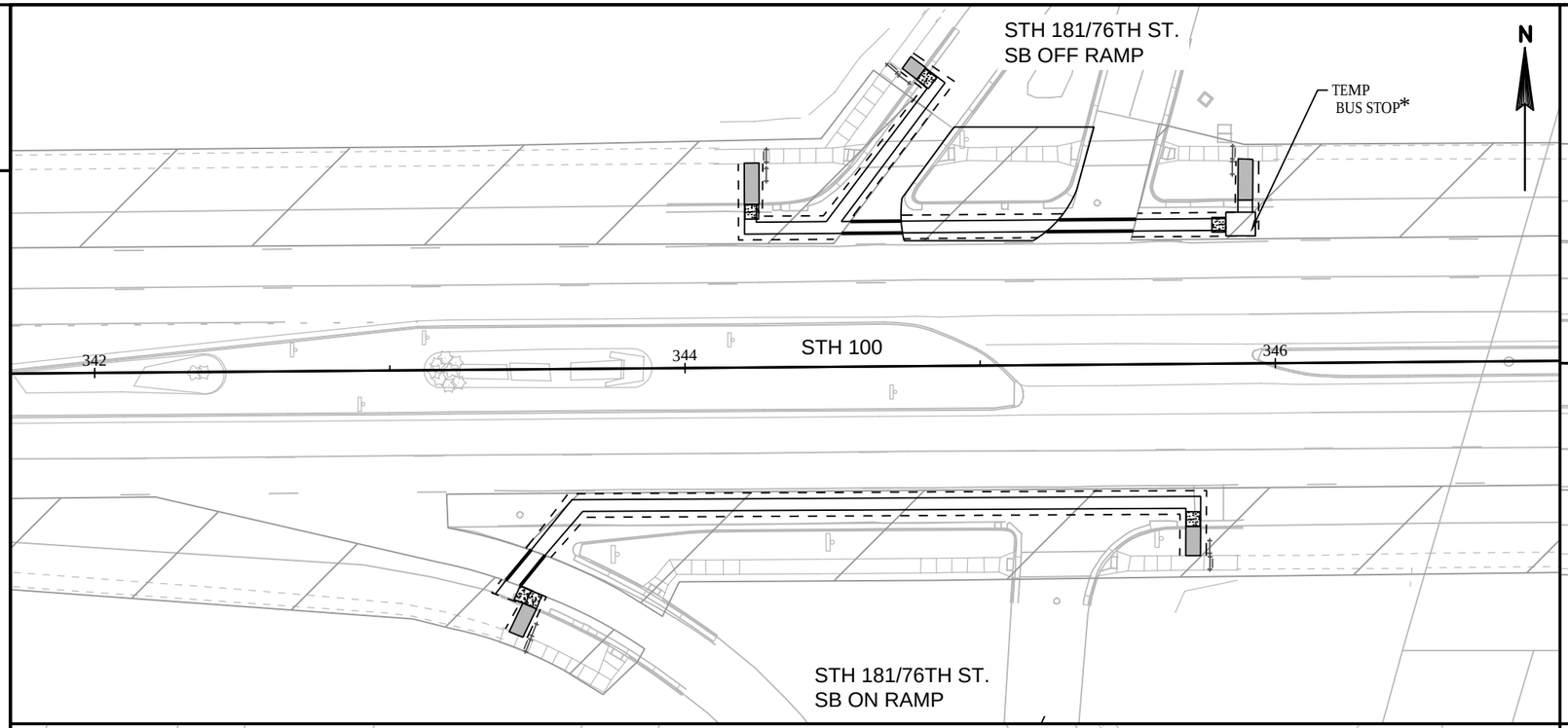
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY MARKING LINE REMOVABLE TAPE, 4-INCH (WHITE)
- TEMPORARY CURB RAMP (REFER TO TEMPORARY CURB RAMP DETAIL)
- TEMPORARY CURB RAMP PARALLEL TO CURB (REFER TO SDD, "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION")
- TEMPORARY PEDESTRIAN SURFACE ASPHALT (REFER TO TEMPORARY CURB RAMP DETAIL)
- TYPE III BARRICADE/TYPE III BARRICADE WITH ATTACHED SIGN R9-11A AND TYPE "A" LIGHTS
- WORK ZONE
- * SEE CONSTRUCTION DETAIL

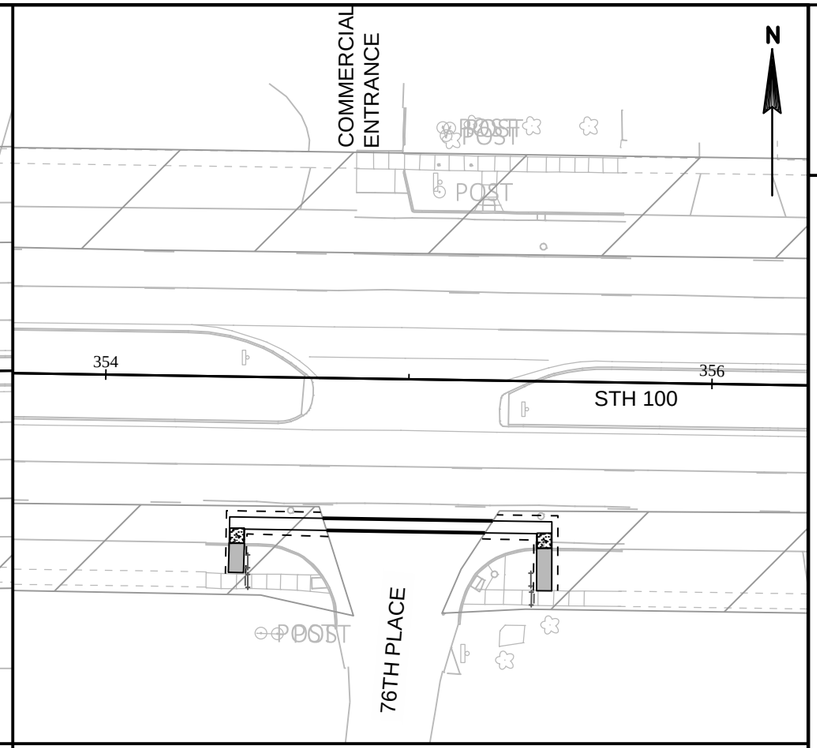
NOTES:

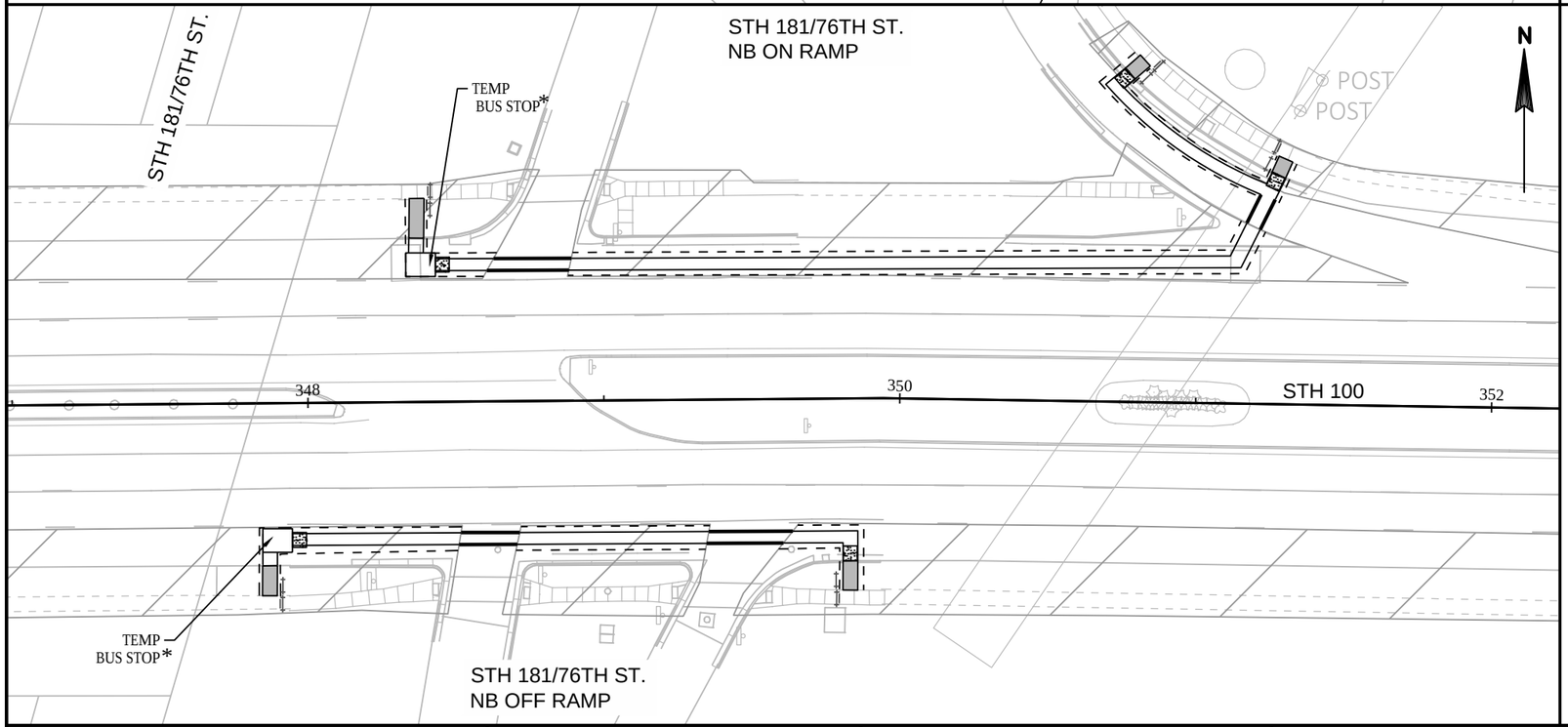
1. PROVIDE PEDESTRIAN SIGNAGE AND TEMPORARY DEVICES IN ACCORDANCE WITH SDD, "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" UNTIL ACCOMMODATIONS CAN BE PROVIDED VIA PERMANENT SIDEWALK PLACEMENT.
2. CONSTRUCT CURB RAMPS DURING STAGE 1A LANE CLOSURES.
3. SIDEWALK STAGING PLAN IS SUGGESTED SEQUENCE TO PERFORM WORK OPERATIONS WHILE MAINTAINING PEDESTRIAN ACCESS. SUBMIT, IN WRITING, ANY MODIFICATIONS TO THE ENGINEER A MINIMUM OF 5 DAYS PRIOR TO BEGINNING WORK.
4. SEE SDD 15D30-A FOR SIGN PLACEMENT FOR PEDESTRIAN ACCOMMODATION.
5. 3 BUS PADS WILL BE SUSPENDED DURING CONSTRUCTION. LOCATIONS ARE EASTBOUND NEAR STA 307+00, EASTBOUND NEAR STA 370+25, AND WESTBOUND NEAR STA 371+50

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC CONTROL PEDESTRIAN ACCOMODATIONS STAGE 1	SHEET 345	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\026107-S1AB-PEDESTRIAN.DWG
LAYOUT NAME - 01
PLOT DATE : 10/13/2020 1:08 PM
PLOT BY : SCHMIDT, JUDENE M
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 42







LEGEND

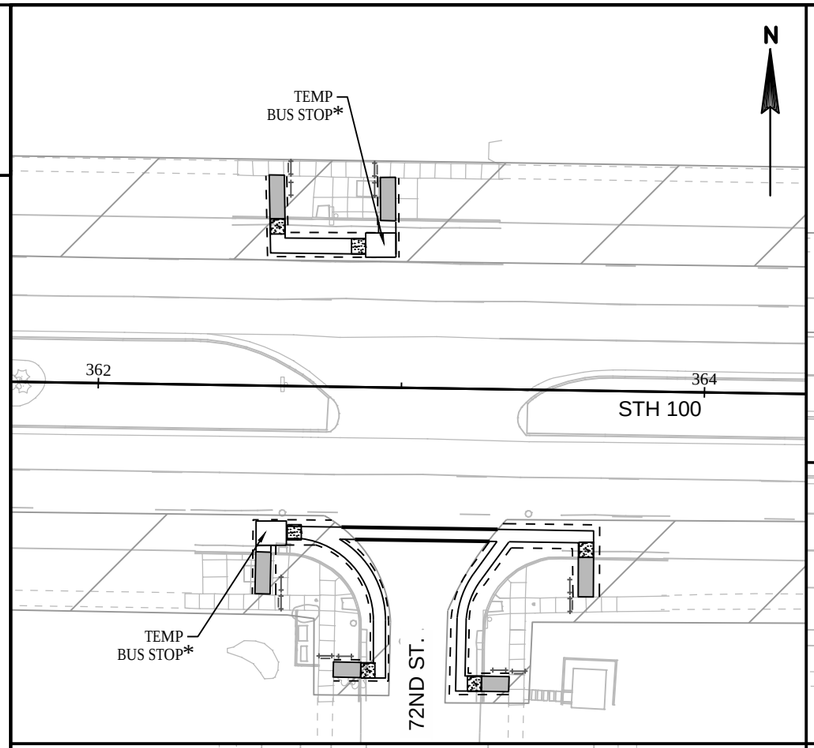
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY MARKING LINE REMOVABLE TAPE, 4-INCH (WHITE)
- TEMPORARY CURB RAMP (REFER TO TEMPORARY CURB RAMP DETAIL)
- TEMPORARY CURB RAMP PARALLEL TO CURB (REFER TO SDD, "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION")
- TEMPORARY PEDESTRIAN SURFACE ASPHALT (REFER TO TEMPORARY CURB RAMP DETAIL)
- TYPE III BARRICADE/TYPE III BARRICADE WITH ATTACHED SIGN R9-11A AND TYPE "A" LIGHTS
- WORK ZONE
- * SEE CONSTRUCTION DETAIL

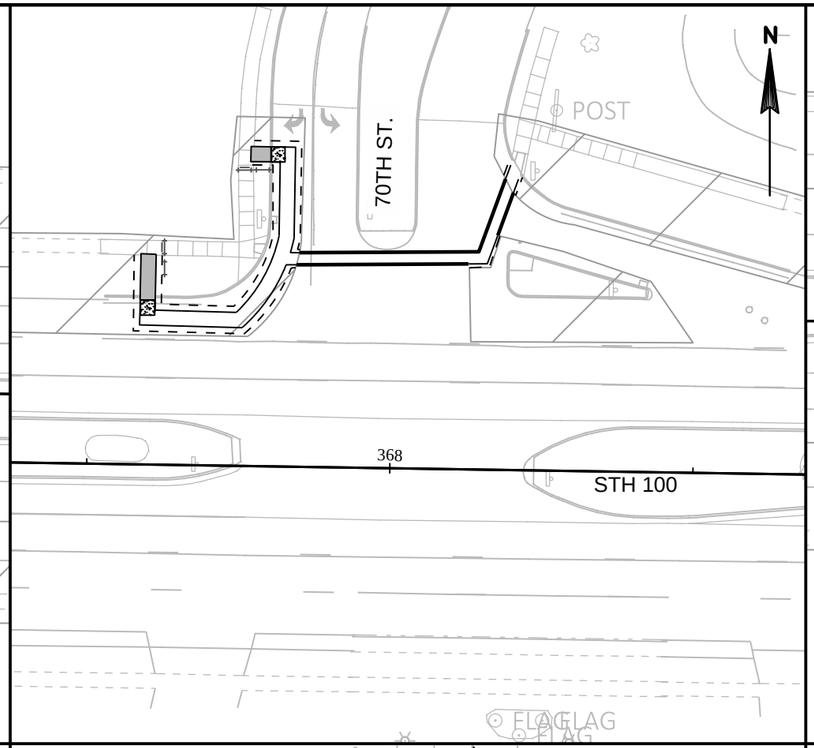
NOTES:

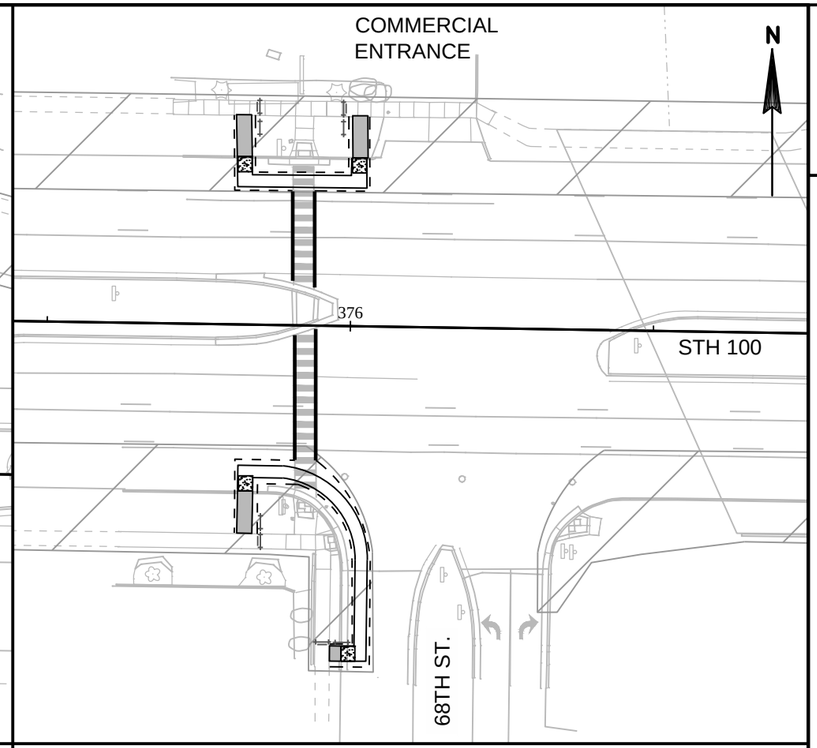
1. PROVIDE PEDESTRIAN SIGNAGE AND TEMPORARY DEVICES IN ACCORDANCE WITH SDD, "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" UNTIL ACCOMMODATIONS CAN BE PROVIDED VIA PERMANENT SIDEWALK PLACEMENT.
2. CONSTRUCT CURB RAMPS DURING STAGE 1A LANE CLOSURES.
3. SIDEWALK STAGING PLAN IS SUGGESTED SEQUENCE TO PERFORM WORK OPERATIONS WHILE MAINTAINING PEDESTRIAN ACCESS. SUBMIT, IN WRITING, ANY MODIFICATIONS TO THE ENGINEER A MINIMUM OF 5 DAYS PRIOR TO BEGINNING WORK.
4. SEE SDD 15D30-A FOR SIGN PLACEMENT FOR PEDESTRIAN ACCOMMODATION.
5. 3 BUS PADS WILL BE SUSPENDED DURING CONSTRUCTION. LOCATIONS ARE EASTBOUND NEAR STA 307+00, EASTBOUND NEAR STA 370+25, AND WESTBOUND NEAR STA 371+50

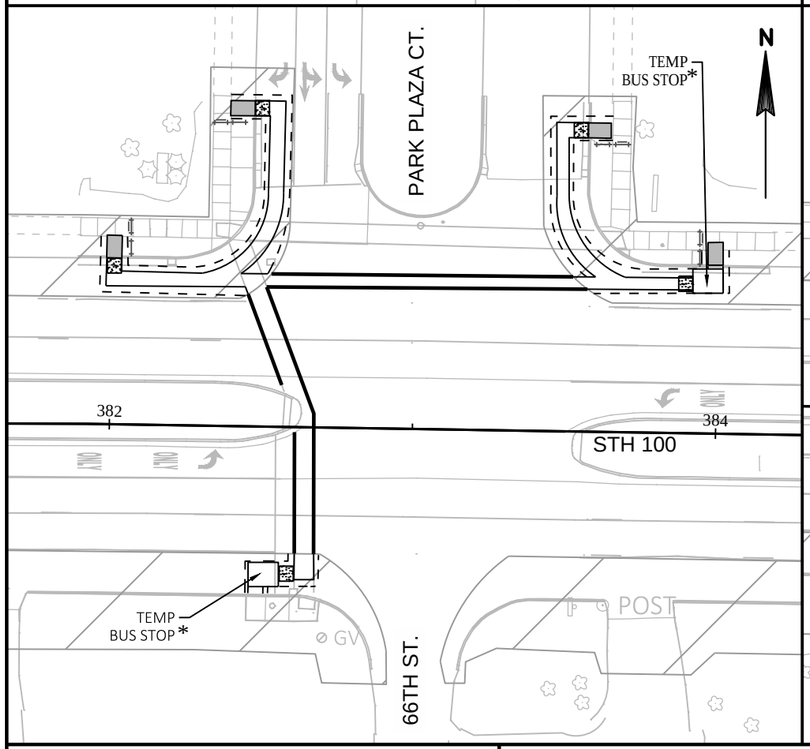
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC CONTROL PEDESTRIAN ACCOMODATIONS STAGE 1	SHEET 346	E

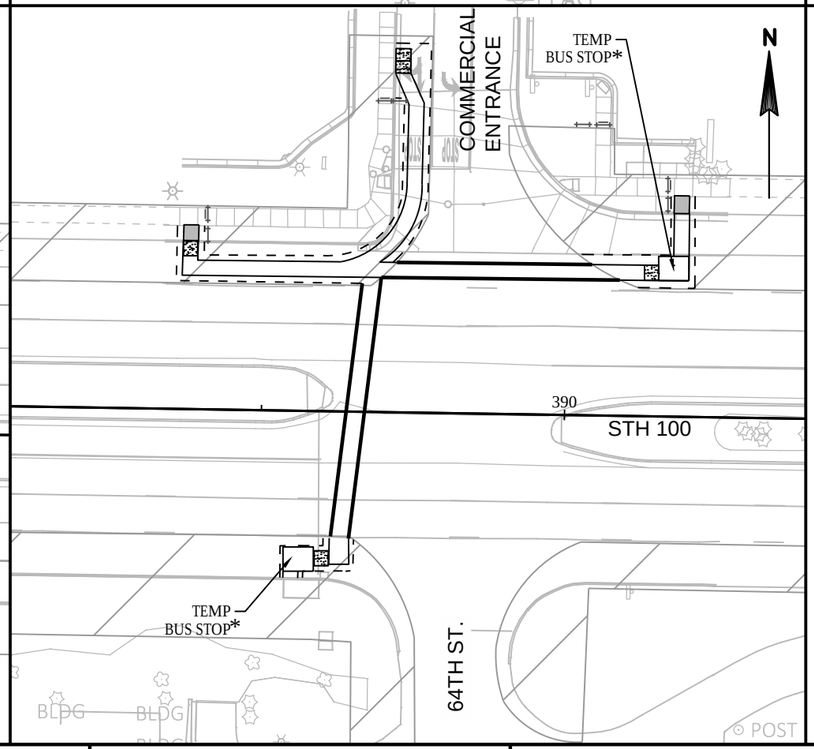
FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\026107-S1AB-PEDESTRIAN.DWG
LAYOUT NAME - 02
PLOT DATE : 10/13/2020 1:08 PM
PLOT BY : SCHMIDT, JUDENE M
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42











LEGEND

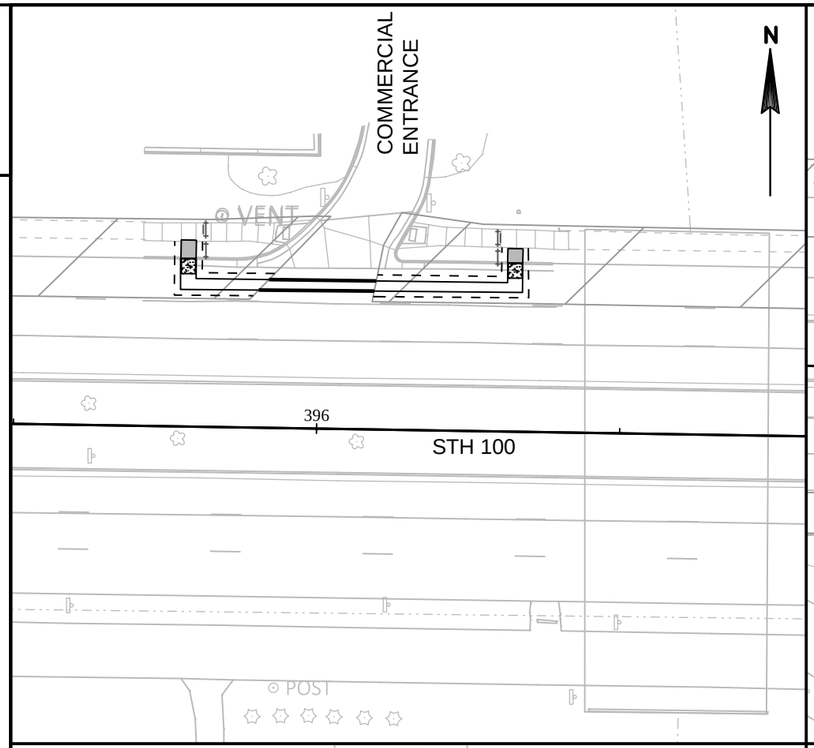
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY MARKING LINE REMOVABLE TAPE, 4-INCH (WHITE)
- TEMPORARY CURB RAMP (REFER TO TEMPORARY CURB RAMP DETAIL)
- TEMPORARY CURB RAMP PARALLEL TO CURB (REFER TO SDD, "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION")
- TEMPORARY PEDESTRIAN SURFACE ASPHALT (REFER TO TEMPORARY CURB RAMP DETAIL)
- TYPE III BARRICADE/TYPE III BARRICADE WITH ATTACHED SIGN R9-11A AND TYPE "A" LIGHTS
- WORK ZONE
- * SEE CONSTRUCTION DETAIL

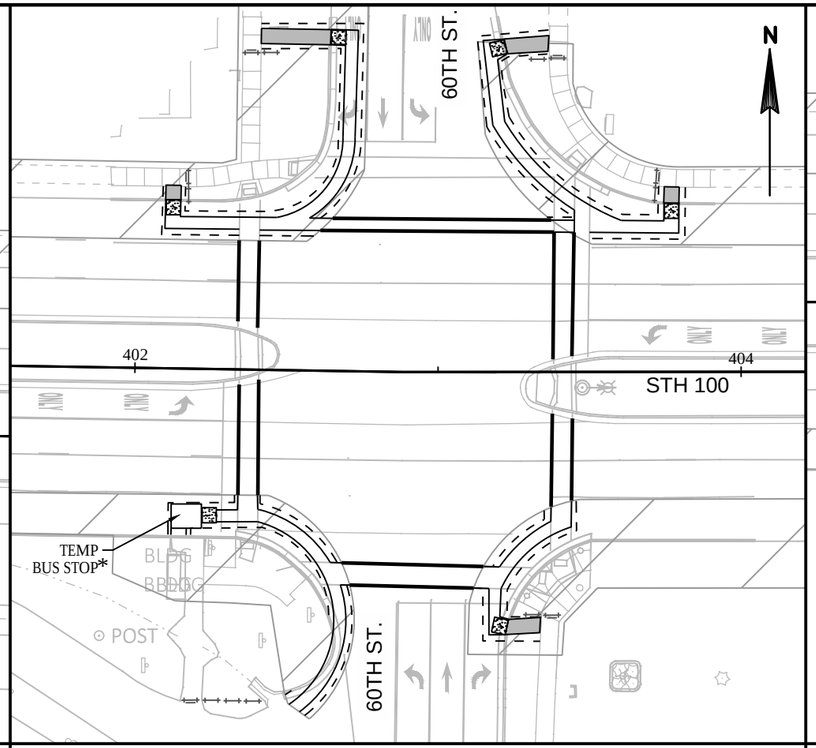
NOTES:

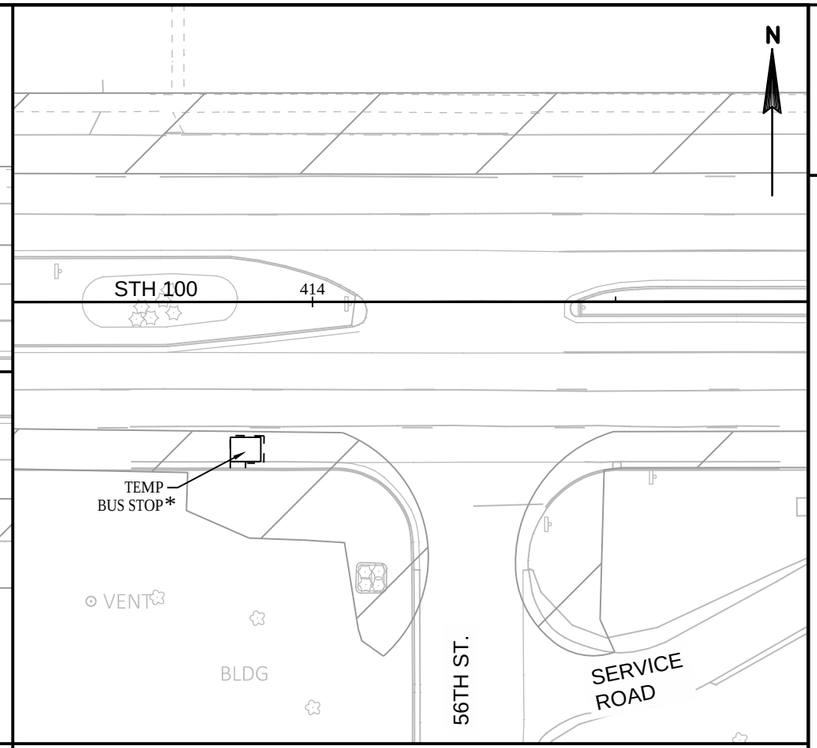
1. PROVIDE PEDESTRIAN SIGNAGE AND TEMPORARY DEVICES IN ACCORDANCE WITH SDD, "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" UNTIL ACCOMMODATIONS CAN BE PROVIDED VIA PERMANENT SIDEWALK PLACEMENT.
2. CONSTRUCT CURB RAMPS DURING STAGE 1A LANE CLOSURES.
3. SIDEWALK STAGING PLAN IS SUGGESTED SEQUENCE TO PERFORM WORK OPERATIONS WHILE MAINTAINING PEDESTRIAN ACCESS. SUBMIT, IN WRITING, ANY MODIFICATIONS TO THE ENGINEER A MINIMUM OF 5 DAYS PRIOR TO BEGINNING WORK.
4. SEE SDD 15D30-A FOR SIGN PLACEMENT FOR PEDESTRIAN ACCOMMODATION.
5. 3 BUS PADS WILL BE SUSPENDED DURING CONSTRUCTION. LOCATIONS ARE EASTBOUND NEAR STA 307+00, EASTBOUND NEAR STA 370+25, AND WESTBOUND NEAR STA 371+50

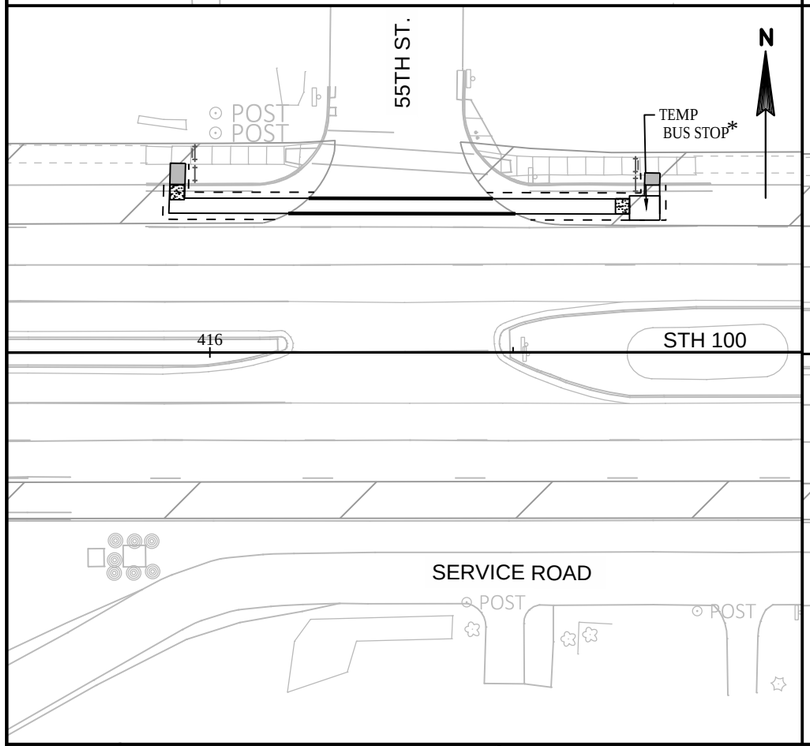
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC CONTROL PEDESTRIAN ACCOMODATIONS STAGE 1	SHEET 347	E

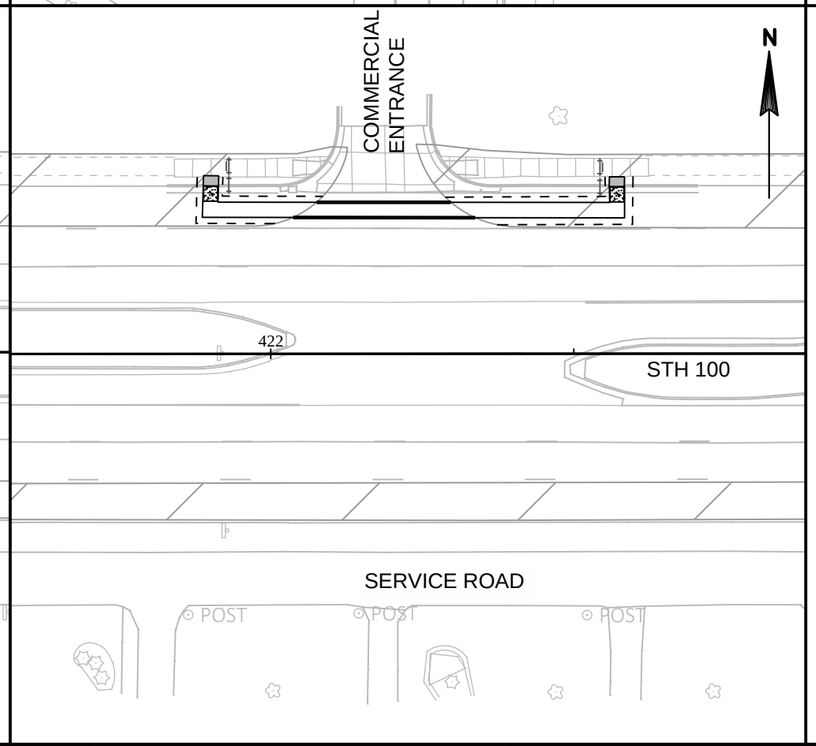
FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\026107-S1AB-PEDESTRIAN.DWG
LAYOUT NAME - 03
PLOT DATE : 10/13/2020 1:09 PM
PLOT BY : SCHMIDT, JUDENE M
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42











LEGEND

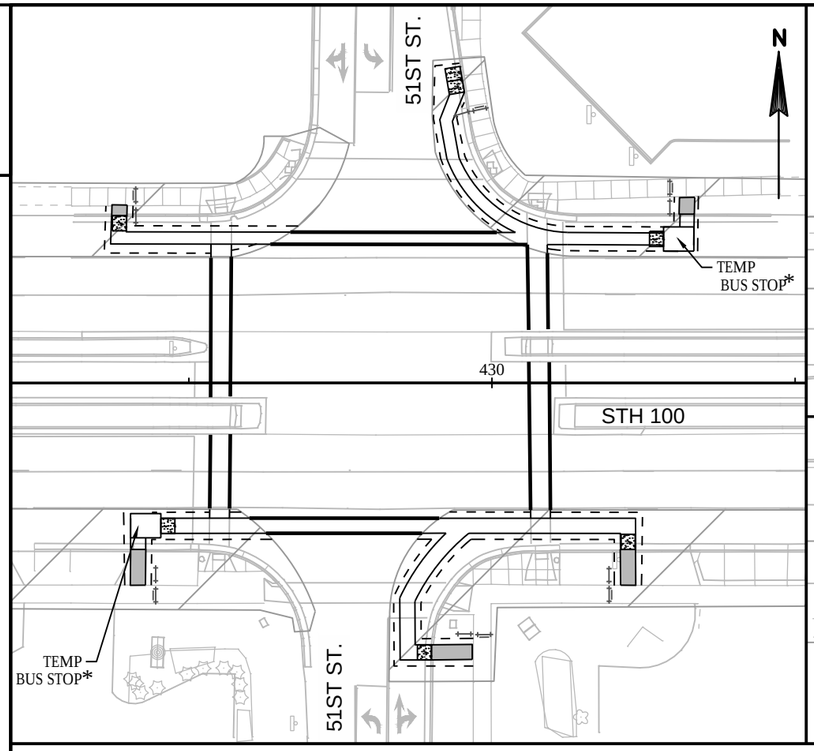
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY MARKING LINE REMOVABLE TAPE, 4-INCH (WHITE)
- TEMPORARY CURB RAMP (REFER TO TEMPORARY CURB RAMP DETAIL)
- TEMPORARY CURB RAMP PARALLEL TO CURB (REFER TO SDD, "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION")
- TEMPORARY PEDESTRIAN SURFACE ASPHALT (REFER TO TEMPORARY CURB RAMP DETAIL)
- TYPE III BARRICADE/TYPE III BARRICADE WITH ATTACHED SIGN R9-11A AND TYPE "A" LIGHTS
- WORK ZONE
- * SEE CONSTRUCTION DETAIL

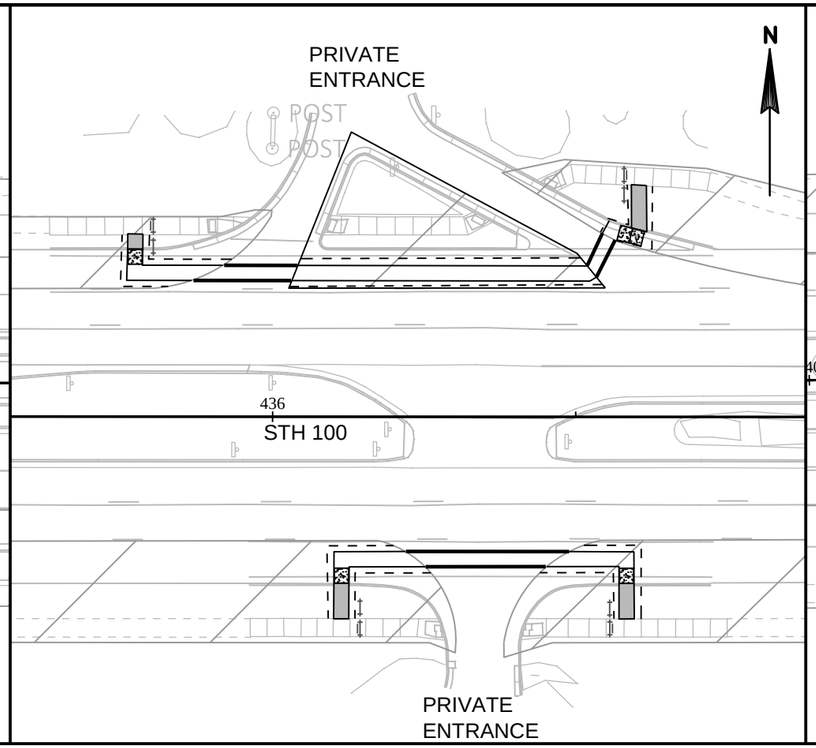
NOTES:

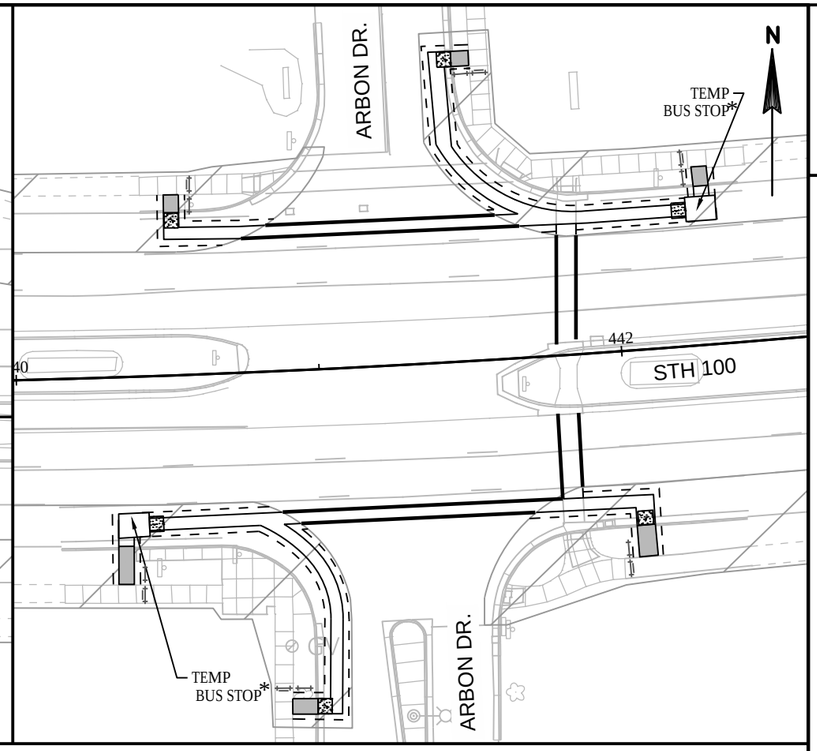
1. PROVIDE PEDESTRIAN SIGNAGE AND TEMPORARY DEVICES IN ACCORDANCE WITH SDD, "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" UNTIL ACCOMMODATIONS CAN BE PROVIDED VIA PERMANENT SIDEWALK PLACEMENT.
2. CONSTRUCT CURB RAMPS DURING STAGE 1A LANE CLOSURES.
3. SIDEWALK STAGING PLAN IS SUGGESTED SEQUENCE TO PERFORM WORK OPERATIONS WHILE MAINTAINING PEDESTRIAN ACCESS. SUBMIT, IN WRITING, ANY MODIFICATIONS TO THE ENGINEER A MINIMUM OF 5 DAYS PRIOR TO BEGINNING WORK.
4. SEE SDD 15D30-A FOR SIGN PLACEMENT FOR PEDESTRIAN ACCOMMODATION.
5. 3 BUS PADS WILL BE SUSPENDED DURING CONSTRUCTION. LOCATIONS ARE EASTBOUND NEAR STA 307+00, EASTBOUND NEAR STA 370+25, AND WESTBOUND NEAR STA 371+50

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC CONTROL PEDESTRIAN ACCOMODATIONS STAGE 1	SHEET 348	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\026107-S1AB-PEDESTRIAN.DWG
LAYOUT NAME - 04
PLOT DATE : 10/13/2020 1:10 PM
PLOT BY : SCHMIDT, JUDENE M
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42







2

LEGEND

- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY MARKING LINE REMOVABLE TAPE, 4-INCH (WHITE)
- TEMPORARY CURB RAMP (REFER TO TEMPORARY CURB RAMP DETAIL)
- TEMPORARY CURB RAMP PARALLEL TO CURB (REFER TO SDD, "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION")
- TEMPORARY PEDESTRIAN SURFACE ASPHALT (REFER TO TEMPORARY CURB RAMP DETAIL)
- TYPE III BARRICADE/TYPE III BARRICADE WITH ATTACHED SIGN R9-11A AND TYPE "A" LIGHTS
- WORK ZONE
- * SEE CONSTRUCTION DETAIL

NOTES:

1. PROVIDE PEDESTRIAN SIGNAGE AND TEMPORARY DEVICES IN ACCORDANCE WITH SDD, "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" UNTIL ACCOMMODATIONS CAN BE PROVIDED VIA PERMANENT SIDEWALK PLACEMENT.
2. CONSTRUCT CURB RAMPS DURING STAGE 1A LANE CLOSURES.
3. SIDEWALK STAGING PLAN IS SUGGESTED SEQUENCE TO PERFORM WORK OPERATIONS WHILE MAINTAINING PEDESTRIAN ACCESS. SUBMIT, IN WRITING, ANY MODIFICATIONS TO THE ENGINEER A MINIMUM OF 5 DAYS PRIOR TO BEGINNING WORK.
4. SEE SDD 15D30-A FOR SIGN PLACEMENT FOR PEDESTRIAN ACCOMMODATION.
5. 3 BUS PADS WILL BE SUSPENDED DURING CONSTRUCTION. LOCATIONS ARE EASTBOUND NEAR STA 307+00, EASTBOUND NEAR STA 370+25, AND WESTBOUND NEAR STA 371+50

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC CONTROL PEDESTRIAN ACCOMODATIONS STAGE 1	SHEET 349	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\026107-S1AB-PEDESTRIAN.DWG
LAYOUT NAME - 05
PLOT DATE : 10/13/2020 1:10 PM
PLOT BY : SCHMIDT, JUDENE M
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

2

N

RIGHT LANE CLOSED AHEAD W20-5A

W04-2R

350'

350'

325' MERGING TAPER

170' BUFFER

WO1-6 48" X 24"

TYPE III BARRICADE

R11-2L 48" X 30"

LANE CLOSED

TYPE III BARRICADE

STH 100

380

382

25' TYP

100'

WO1-6 48" X 24"

TYPE III BARRICADE

R11-2L 48" X 30"

LANE CLOSED

TYPE III BARRICADE

R11-2L 48" X 30"

LANE CLOSED

TYPE III BARRICADE

100' BUFFER

125' MERGING TAPER

150'

W04-2L

200'

LEFT LANE CLOSED AHEAD W20-5SA

200'

ROAD WORK AHEAD W20-1A

RIGHT TURN ONLY R3-53R 24"X30"

25' TYP

CENTER THROUGH LANE ON STH 100 MUST BE OPEN TO TRAFFIC BY WEEKDAY PEAK TRAVEL PERIOD.

R3-2 24"X24"

66th STREET

PARK PLAZA CT

TEMPORARY PAVEMENT MARKING 4-INCH REMOVABLE TAPE DOUBLE YELLOW

TEMPORARY PAVEMENT MARKING 4-INCH REMOVABLE TAPE WHITE

RIGHT TURN ONLY R3-53R 24"X30"

RIGHT TURN ONLY R3-53R 24"X30"

1000'

1000'

500'

ROAD CLOSED 1/2 MILE W20-3G

ROAD CLOSED 1000 FT W20-3C

ROAD CLOSED 500 FT W20-3D

ROAD CLOSED BEGINNING XXX-XX

TRAFFIC CONTROL SIGN FIXED MESSAGE.
PLACE 3 DAYS PRIOR TO CLOSURE.

WO1-4R

384

386

100'

170' BUFFER

325' MERGING TAPER

350'

350'

25' TYP

W04-2R

RIGHT LANE CLOSED AHEAD W20-5A

R11-2 48" X 30"

ROAD CLOSED

TYPE III BARRICADE

R11-2 48" X 30"

ROAD CLOSED

TYPE III BARRICADE

WO1-6 48" X 24"

TYPE III BARRICADE

WO1-6 48" X 24"

TYPE III BARRICADE

R3-2 24"X24"

LEGEND

- TYPE III BARRICADE WITH/WITHOUT SIGN INCLUDES 2 TYPE A LIGHTS
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT/TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- DIRECTION OF TRAFFIC
- MARKING REMOVAL LINE 4-INCH
- WORK AREA

NOTES:
CLOSE INTERSECTION AT 6 PM ON FRIDAY, TWO THROUGH TRAFFIC LANES ON STH 100 TO BE OPEN BY 6AM MONDAY.

LANE 1 OPEN TO TRAFFIC, LANES 2 AND 3 CLOSED AT INTERSECTION.

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1C - PARK PLAZA NW	SHEET 350	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\026111S1C- PARKPLAZA NW INT.DWG
LAYOUT NAME - 01
PLOT DATE : 11/17/2020 7:56 AM
PLOT BY : SCHMIDT, JUDENE M
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

N

RIGHT LANE CLOSED AHEAD W20-5A

W04-2R

350'

350'

25' TYP

380

WO1-6 48" X 24"

TYPE III BARRICADE

325' MERGING TAPER

R11-2L 48" X 30"

LANE CLOSED

TYPE III BARRICADE

170' BUFFER

382

100'

R11-2 48" X 30"

ROAD CLOSED

TYPE III BARRICADE

WO1-6 48" X 24"

TYPE III BARRICADE

R11-2L 48" X 30"

LANE CLOSED

TYPE III BARRICADE

WO1-6 48" X 24"

TYPE III BARRICADE

125' BUFFER

125' MERGING TAPER

150'

W04-2R

200'

RIGHT LANE CLOSED AHEAD W20-5A

ROAD WORK AHEAD W20-1A

200'

RIGHT TURN ONLY R3-53R 24"X30"

WO1-4L

25' TYP

CENTER THROUGH LANE ON STH 100 MUST BE OPEN TO TRAFFIC BY WEEKDAY PEAK TRAVEL PERIOD.

66th STREET

TEMPORARY PAVEMENT MARKING 4-INCH REMOVABLE TAPE DOUBLE YELLOW

TEMPORARY PAVEMENT MARKING 4-INCH REMOVABLE TAPE WHITE

PARK PLAZA CT

ROAD CLOSED BEGINNING XXX-XX

TRAFFIC CONTROL SIGN FIXED MESSAGE.
PLACE 3 DAYS PRIOR TO CLOSURE.

1000'

1000'

500'

ROAD CLOSED 1/2 MILE W20-3G

ROAD CLOSED 1000 FT W20-3C

ROAD CLOSED 500 FT W20-3D

R3-2 24"X24"

384

100'

R11-2 48" X 30"

ROAD CLOSED

TYPE III BARRICADE

170' BUFFER

325' MERGING TAPER

R11-2L 48" X 30"

LANE CLOSED

TYPE III BARRICADE

RIGHT TURN ONLY R3-53R 24"X30"

RIGHT TURN ONLY R3-53R 24"X30"

WO1-6 48" X 24"

TYPE III BARRICADE

R3-2 24"X24"

386

350'

350'

W04-2R

25' TYP

RIGHT LANE CLOSED AHEAD W20-5A

388

LEGEND

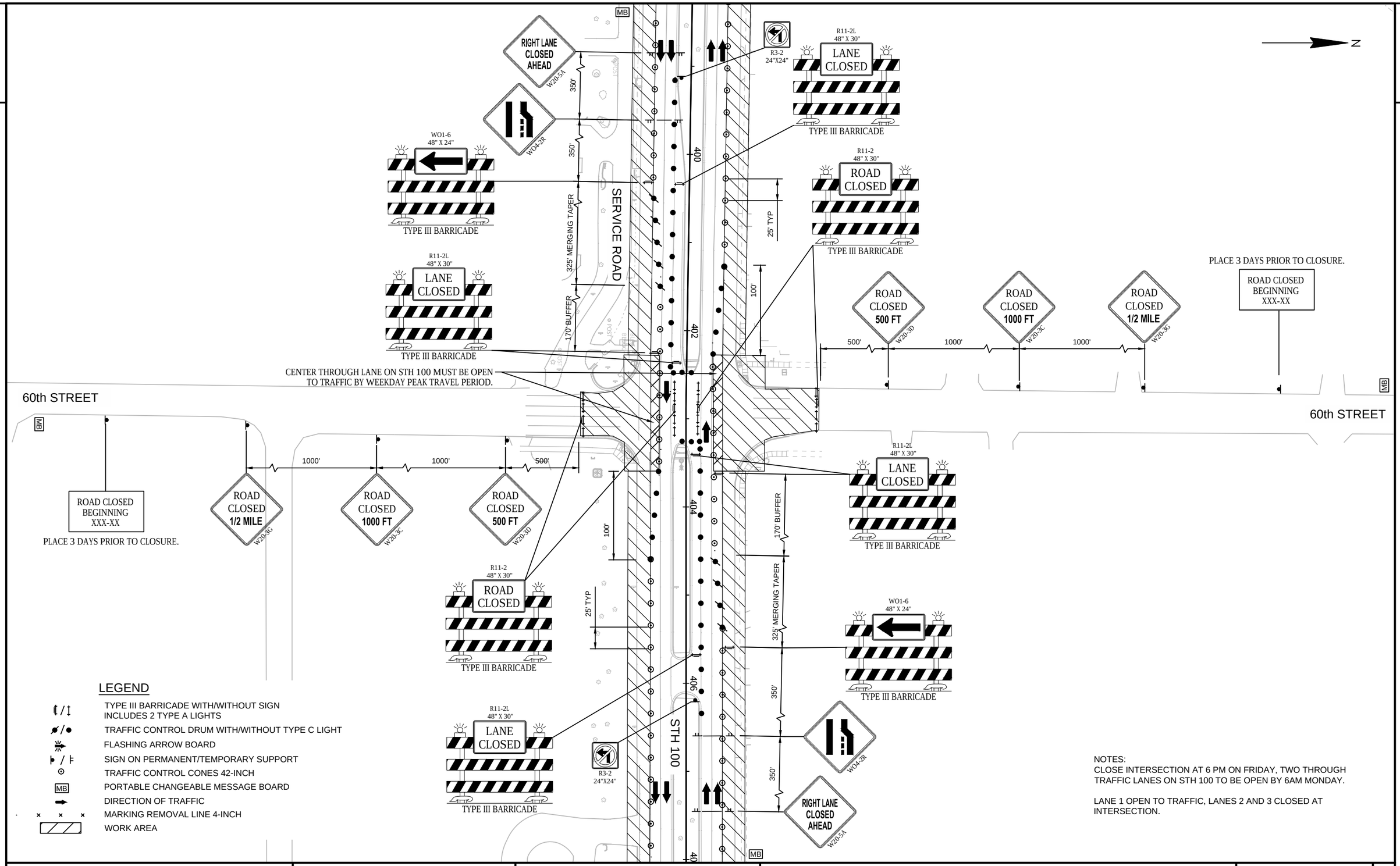
- TYPE III BARRICADE WITH/WITHOUT SIGN INCLUDES 2 TYPE A LIGHTS
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT/TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- DIRECTION OF TRAFFIC
- MARKING REMOVAL LINE 4-INCH
- WORK AREA

NOTES:
CLOSE INTERSECTION AT 6 PM ON FRIDAY, TWO THROUGH TRAFFIC LANES ON STH 100 TO BE OPEN BY 6AM MONDAY.

LANE 1 OPEN TO TRAFFIC, LANES 2 AND 3 CLOSED AT INTERSECTION.

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1C - PARK PLAZA NE	SHEET 351	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\026112S1C- PARKPLAZA NE INT.DWG
LAYOUT NAME - 01
PLOT DATE : 11/17/2020 8:13 AM
PLOT BY : SCHMIDT, JUDENE M
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42



LEGEND

- TYPE III BARRICADE WITH/WITHOUT SIGN INCLUDES 2 TYPE A LIGHTS
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT/TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- DIRECTION OF TRAFFIC
- MARKING REMOVAL LINE 4-INCH
- WORK AREA

NOTES:
CLOSE INTERSECTION AT 6 PM ON FRIDAY, TWO THROUGH TRAFFIC LANES ON STH 100 TO BE OPEN BY 6AM MONDAY.

LANE 1 OPEN TO TRAFFIC, LANES 2 AND 3 CLOSED AT INTERSECTION.

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1C - 60th STREET	SHEET 352	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\026113S1C- 60-51 INTS.DWG
LAYOUT NAME - 03

PLOT DATE : 11/17/2020 8:24 AM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

52nd STREET

51st STREET

51st STREET

STH 100

STH 100

N

MB

R3-2
24"X24"

RIGHT LANE CLOSED AHEAD
W20-5A

350'

424

426

25' TYP

WO1-6
48" X 24"

TYPE III BARRICADE

WO4-2R

350'

350'

325' MERGING TAPER

170' BUFFER

R11-2L
48" X 30"
LANE CLOSED

TYPE III BARRICADE

CENTER THROUGH LANE ON STH 100 MUST BE OPEN TO TRAFFIC BY WEEKDAY PEAK TRAVEL PERIOD.

426

428

430

R11-2L
48" X 30"
LANE CLOSED

TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED

TYPE III BARRICADE

25' TYP

R11-2L
48" X 30"
ROAD CLOSED

TYPE III BARRICADE

100'

ROAD CLOSED 500 FT
W20-3D

500'

ROAD CLOSED 1000 FT
W20-3C

1000'

ROAD CLOSED 1/2 MILE
W20-3G

1000'

TRAFFIC CONTROL SIGN FIXED MESSAGE.
PLACE 3 DAYS PRIOR TO CLOSURE.

ROAD CLOSED BEGINNING XXX-XX

MB

ROAD CLOSED BEGINNING XXX-XX

TRAFFIC CONTROL SIGN FIXED MESSAGE.
PLACE 3 DAYS PRIOR TO CLOSURE.

ROAD CLOSED 1/2 MILE
W20-3G

1000'

ROAD CLOSED 1000 FT
W20-3C

1000'

ROAD CLOSED 500 FT
W20-3D

500'

100'

R11-2L
48" X 30"
LANE CLOSED

TYPE III BARRICADE

170' BUFFER

325' MERGING TAPER

R11-2
48" X 30"
ROAD CLOSED

TYPE III BARRICADE

25' TYP

WO1-6
48" X 24"

TYPE III BARRICADE

350'

WO4-2R

350'

RIGHT LANE CLOSED AHEAD
W20-5A

432

434

R3-2
24"X24"

MB

LEGEND

- TYPE III BARRICADE WITH/WITHOUT SIGN INCLUDES 2 TYPE A LIGHTS
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT/TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- DIRECTION OF TRAFFIC
- MARKING REMOVAL LINE 4-INCH
- WORK AREA

NOTES:
CLOSE INTERSECTION AT 6 PM ON FRIDAY, TWO THROUGH TRAFFIC LANES ON STH 100 TO BE OPEN BY 6AM MONDAY.

LANE 1 OPEN TO TRAFFIC, LANES 2 AND 3 CLOSED AT INTERSECTION.

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1C - 51st STREET	SHEET 353	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\026113S1C- 60-51 INTS.DWG
LAYOUT NAME - 04
PLOT DATE : 11/17/2020 8:24 AM
PLOT BY : SCHMIDT, JUDENE M
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

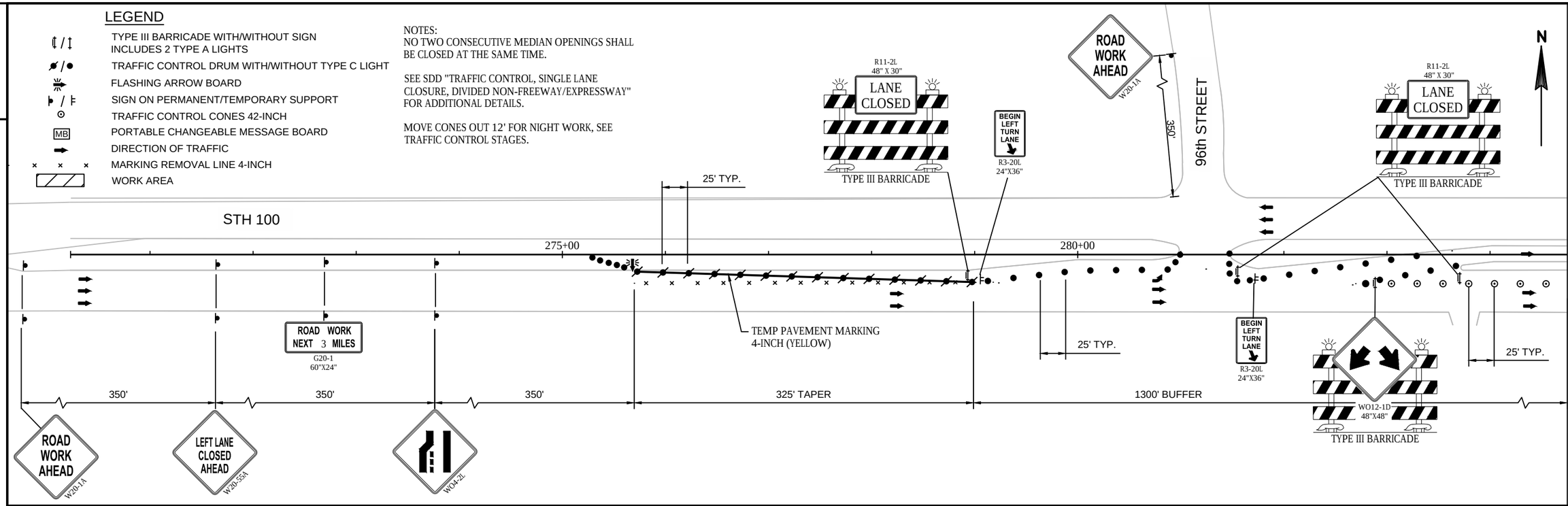
LEGEND

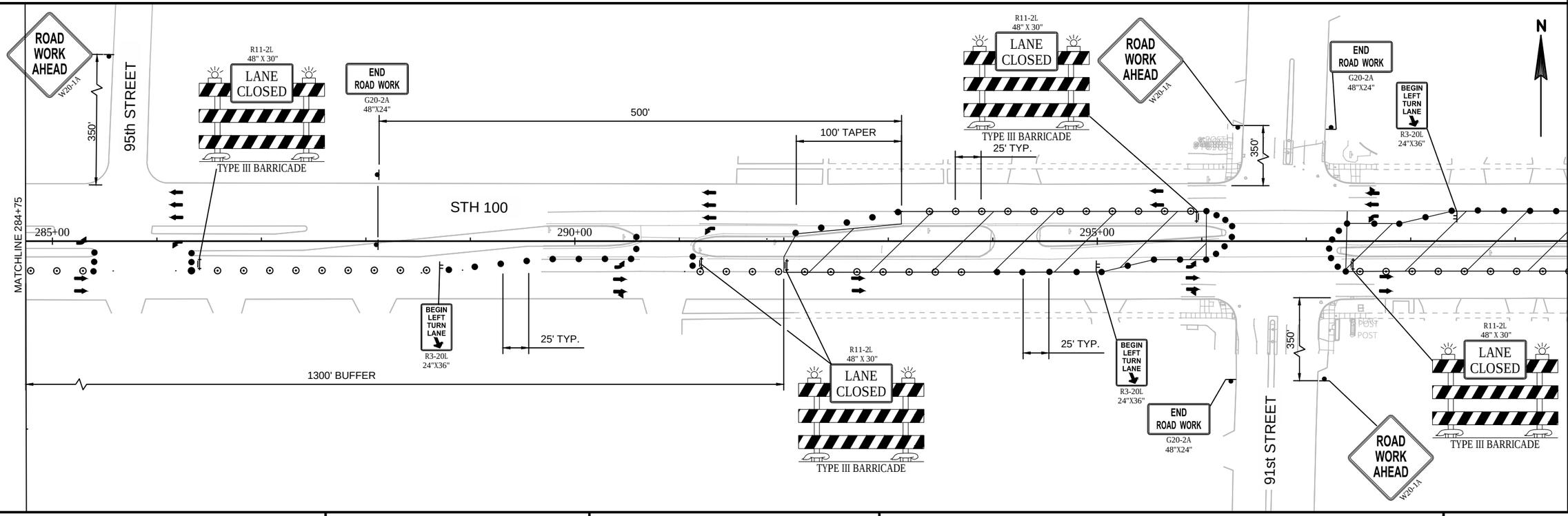
- TYPE III BARRICADE WITH/WITHOUT SIGN INCLUDES 2 TYPE A LIGHTS
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT/TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- DIRECTION OF TRAFFIC
- MARKING REMOVAL LINE 4-INCH
- WORK AREA

NOTES:
NO TWO CONSECUTIVE MEDIAN OPENINGS SHALL BE CLOSED AT THE SAME TIME.

SEE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY" FOR ADDITIONAL DETAILS.

MOVE CONES OUT 12' FOR NIGHT WORK, SEE TRAFFIC CONTROL STAGES.

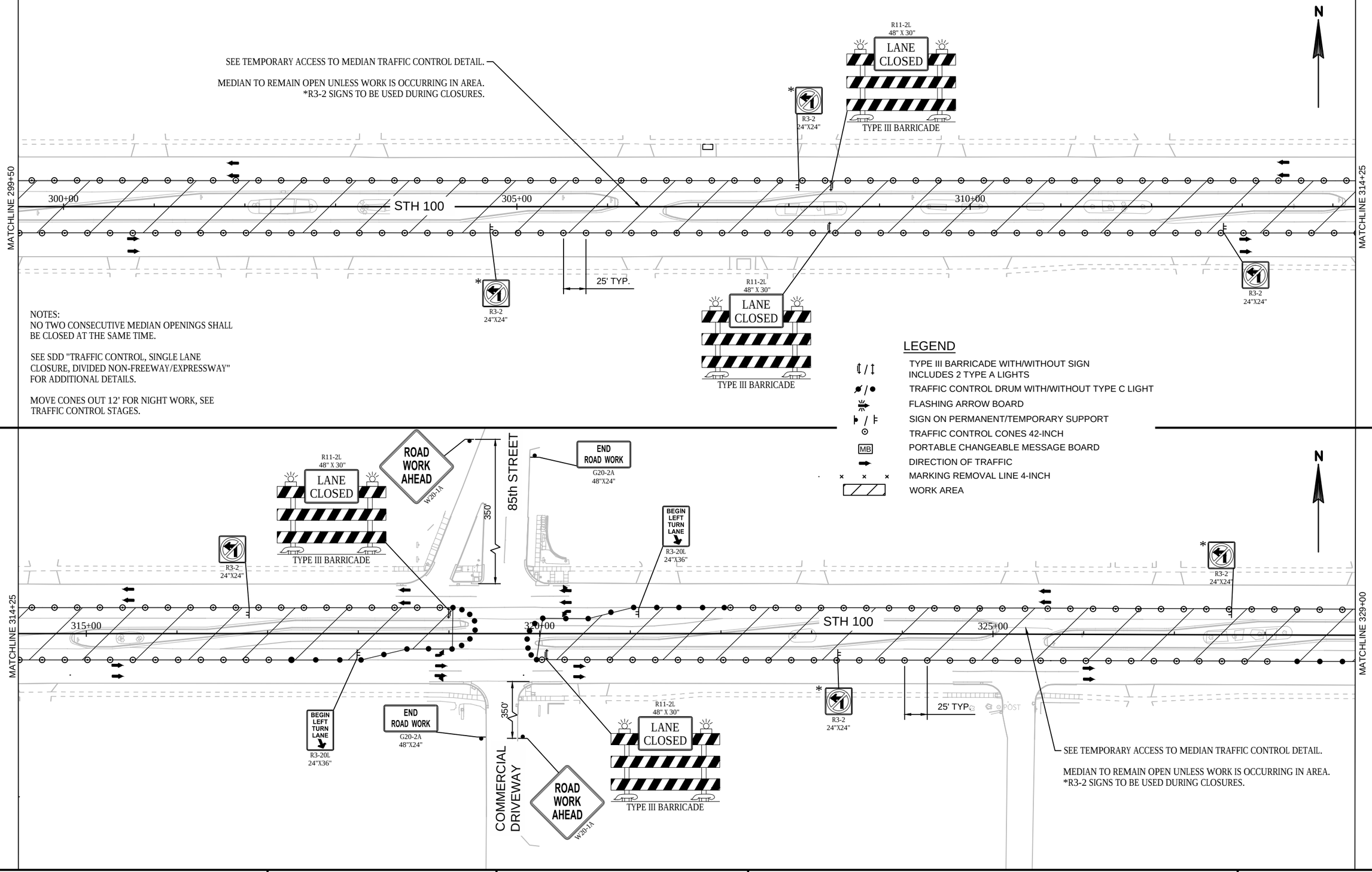




PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2A	SHEET 354	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\0262O1-S2A-MAINLINE.DWG
LAYOUT NAME - 01
PLOT DATE : 10/2/2020 12:35 PM
PLOT BY : MAY, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

2



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2A	SHEET 355	E

FILE NAME : N:\PDS\C3D\215000001\SHEETSPLAN\0262O1-S2A-MAINLINE.DWG
LAYOUT NAME - 02
PLOT DATE : 10/2/2020 12:36 PM
PLOT BY : MAY, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

2

NOTES:
NO TWO CONSECUTIVE MEDIAN OPENINGS SHALL BE CLOSED AT THE SAME TIME.

SEE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY" FOR ADDITIONAL DETAILS.

MOVE CONES OUT 12' FOR NIGHT WORK, SEE TRAFFIC CONTROL STAGES.

N

82nd STREET

SERVITE DR

STH 100

MATCHLINE 329+00

MATCHLINE 343+75

330+00

335+00

340+00

25' TYP.

350'

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

COMMERCIAL DRIVEWAY

LEGEND

- TYPE III BARRICADE WITH/WITHOUT SIGN INCLUDES 2 TYPE A LIGHTS
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT/TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- DIRECTION OF TRAFFIC
- MARKING REMOVAL LINE 4-INCH
- WORK AREA

LEFT LANE CLOSED AHEAD
W20-5A

STH 181/76th STREET

76th PLACE

MATCHLINE 343+75

MATCHLINE 358+50

345+00

350+00

355+00

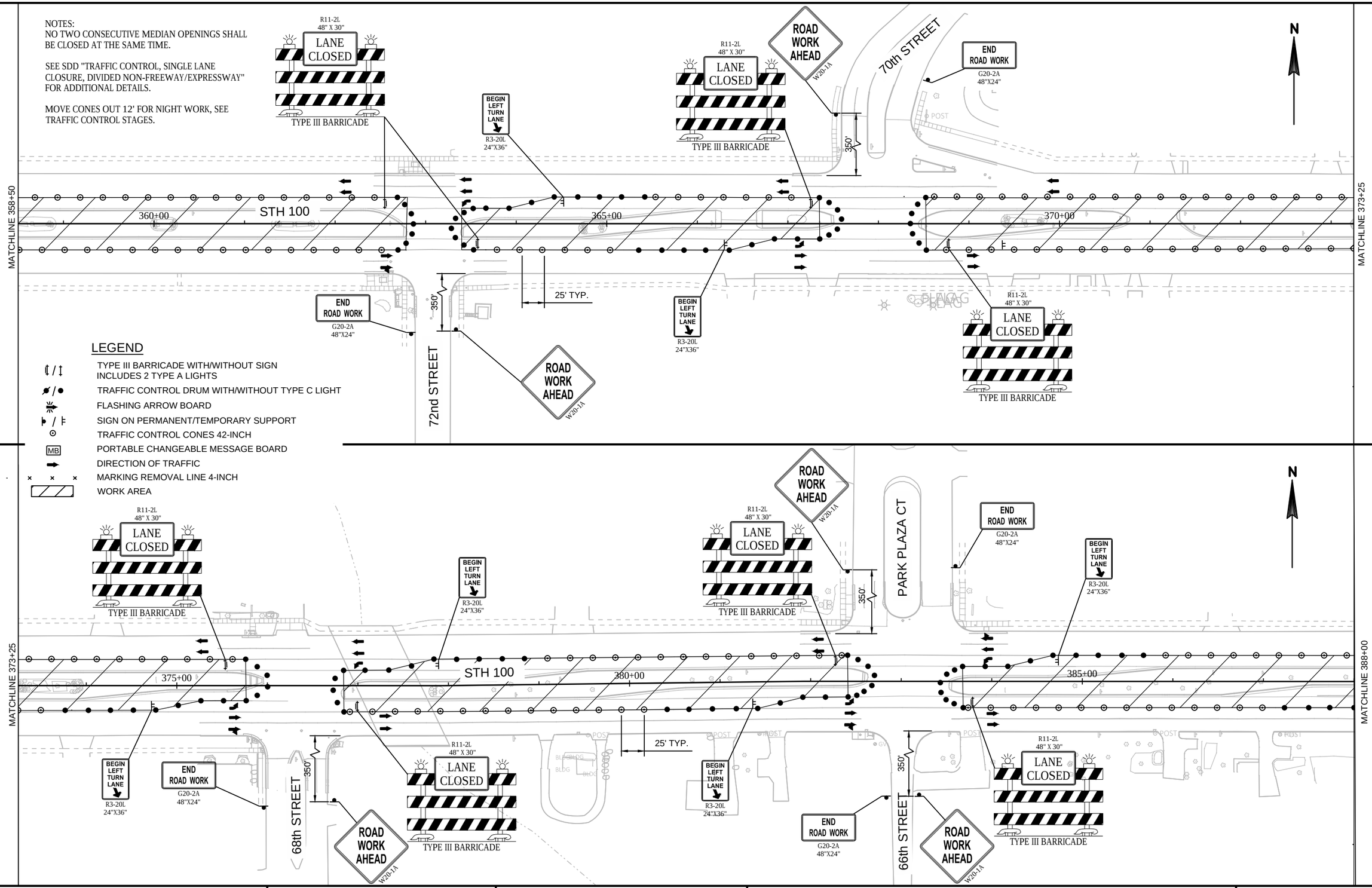
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2A	SHEET 356	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\026201-S2A-MAINLINE.DWG
LAYOUT NAME - 03
PLOT DATE : 10/2/2020 12:36 PM
PLOT BY : MAY, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

NOTES:
NO TWO CONSECUTIVE MEDIAN OPENINGS SHALL BE CLOSED AT THE SAME TIME.

SEE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY" FOR ADDITIONAL DETAILS.

MOVE CONES OUT 12' FOR NIGHT WORK, SEE TRAFFIC CONTROL STAGES.



LEGEND

- TYPE III BARRICADE WITH/WITHOUT SIGN INCLUDES 2 TYPE A LIGHTS
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT/TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- DIRECTION OF TRAFFIC
- MARKING REMOVAL LINE 4-INCH
- WORK AREA

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2A	SHEET 357	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\0026201-S2A-MAINLINE.DWG
LAYOUT NAME - 04
PLOT DATE : 10/2/2020 12:36 PM
PLOT BY : MAY, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

NOTES:
NO TWO CONSECUTIVE MEDIAN OPENINGS SHALL BE CLOSED AT THE SAME TIME.

SEE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY" FOR ADDITIONAL DETAILS.

MOVE CONES OUT 12' FOR NIGHT WORK, SEE TRAFFIC CONTROL STAGES.

N

ROAD WORK AHEAD W20-1A

R11-2L 48" X 30"
LANE CLOSED

350'

TYPE III BARRICADE

END ROAD WORK G20-2A 48"X24"

BEGIN LEFT TURN LANE R3-20L 24"X36"

MATCHLINE 388+00

390+00

STH 100

395+00

400+00

MATCHLINE 402+00

SERVICE ROAD

25' TYP.

64th STREET

BEGIN LEFT TURN LANE R3-20L 24"X36"

END ROAD WORK G20-2A 48"X24"

ROAD WORK AHEAD W20-1A

R11-2L 48" X 30"
LANE CLOSED

TYPE III BARRICADE

BEGIN LEFT TURN LANE R3-20L 24"X36"

LEGEND

- TYPE III BARRICADE WITH/WITHOUT SIGN INCLUDES 2 TYPE A LIGHTS
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT/TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- PORTABLE CHANGEABLE MESSAGE BOARD
- DIRECTION OF TRAFFIC
- MARKING REMOVAL LINE 4-INCH
- WORK AREA

ROAD WORK AHEAD W20-1A

60th STREET

350'

END ROAD WORK G20-2A 48"X24"

BEGIN LEFT TURN LANE R3-20L 24"X36"

MATCHLINE 402+00

405+00

STH 100

410+00

415+00

MATCHLINE 417+40

25' TYP.

R11-2L 48" X 30"
LANE CLOSED

TYPE III BARRICADE

END ROAD WORK G20-2A 48"X24"

ROAD WORK AHEAD W20-1A

55th STREET

ROAD WORK AHEAD W20-1A

R11-2L 48" X 30"
LANE CLOSED

TYPE III BARRICADE

END ROAD WORK G20-2A 48"X24"

56th STREET

BEGIN LEFT TURN LANE R3-20L 24"X36"

ROAD WORK AHEAD W20-1A

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2A	SHEET 358	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\026201-S2A-MAINLINE.DWG
LAYOUT NAME - 05

PLOT DATE : 10/2/2020 12:37 PM PLOT BY : MAY, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

NOTES:
NO TWO CONSECUTIVE MEDIAN OPENINGS SHALL BE CLOSED AT THE SAME TIME.

SEE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY" FOR ADDITIONAL DETAILS.

MOVE CONES OUT 12' FOR NIGHT WORK, SEE TRAFFIC CONTROL STAGES.

SEE TEMPORARY ACCESS TO MEDIAN TRAFFIC CONTROL DETAIL.

MEDIAN TO REMAIN OPEN UNLESS WORK IS OCCURRING IN AREA.
*R3-2 SIGNS TO BE USED DURING CLOSURES.

MATCHLINE 417+40

420+00

425+00

STH 100

SERVICE ROAD

25' TYP.

R3-2
24"X24"

R3-20L
24"X36"
BEGIN LEFT TURN LANE

R11-2L
48" X 30"
LANE CLOSED

TYPE III BARRICADE

52nd STREET

ROAD WORK AHEAD
W20-1A

350'

51st STREET

END ROAD WORK
G20-2A
48"X24"

MATCHLINE 432+25

430+00

N

LEGEND

- TYPE III BARRICADE WITH/WITHOUT SIGN INCLUDES 2 TYPE A LIGHTS
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT/TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- DIRECTION OF TRAFFIC
- MARKING REMOVAL LINE 4-INCH
- WORK AREA

MATCHLINE 432+25

435+00

440+00

445+00

MATCHLINE 447+00

ARBON DRIVE

SEE TEMPORARY ACCESS TO MEDIAN TRAFFIC CONTROL DETAIL.

MEDIAN TO REMAIN OPEN UNLESS WORK IS OCCURRING IN AREA.
*R3-2 SIGNS TO BE USED DURING CLOSURES.

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2A	SHEET 359	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\026201-S2A-MAINLINE.DWG
LAYOUT NAME - 06

PLOT DATE : 10/2/2020 12:37 PM PLOT BY : MAY, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

2

N

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

ROAD WORK AHEAD
W20-1A

350'

DEERBROOK TRAIL

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

BEGIN LEFT TURN LANE
R3-20L
24"X36"

600' BUFFER

325' TAPER

ROAD WORK AHEAD
W20-1A

350'

DEERBROOK DRIVE

W04-2L

350'

STH 57 SB OFF RAMP

25' TYP.

450+00

435+00

460+00

STH 100

MATCHLINE 447+00

TEMP PAVEMENT MARKING
4-INCH (YELLOW)

25' TYP.

100' TAPER

500'

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

350'

DEERBROOK DRIVE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

RAILROAD

N RIVER LN

STH 57 SB OFF RAMP

STH 57

LEFT LANE CLOSED AHEAD
W20-5A

STH 57 NB ON RAMP

ROAD WORK AHEAD
W20-1A

N KILDEER CT

N

350'

350'

ROAD WORK NEXT 3 MILES
G20-1
60"X24"

STH 100

STH 57 SB ON RAMP

STH 57 NB OFF RAMP

LEGEND

- TYPE III BARRICADE WITH/WITHOUT SIGN INCLUDES 2 TYPE A LIGHTS
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT/TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- PORTABLE CHANGEABLE MESSAGE BOARD
- DIRECTION OF TRAFFIC
- MARKING REMOVAL LINE 4-INCH
- WORK AREA

NOTES:
NO TWO CONSECUTIVE MEDIAN OPENINGS SHALL BE CLOSED AT THE SAME TIME.

SEE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY" FOR ADDITIONAL DETAILS.

MOVE CONES OUT 12' FOR NIGHT WORK, SEE TRAFFIC CONTROL STAGES.

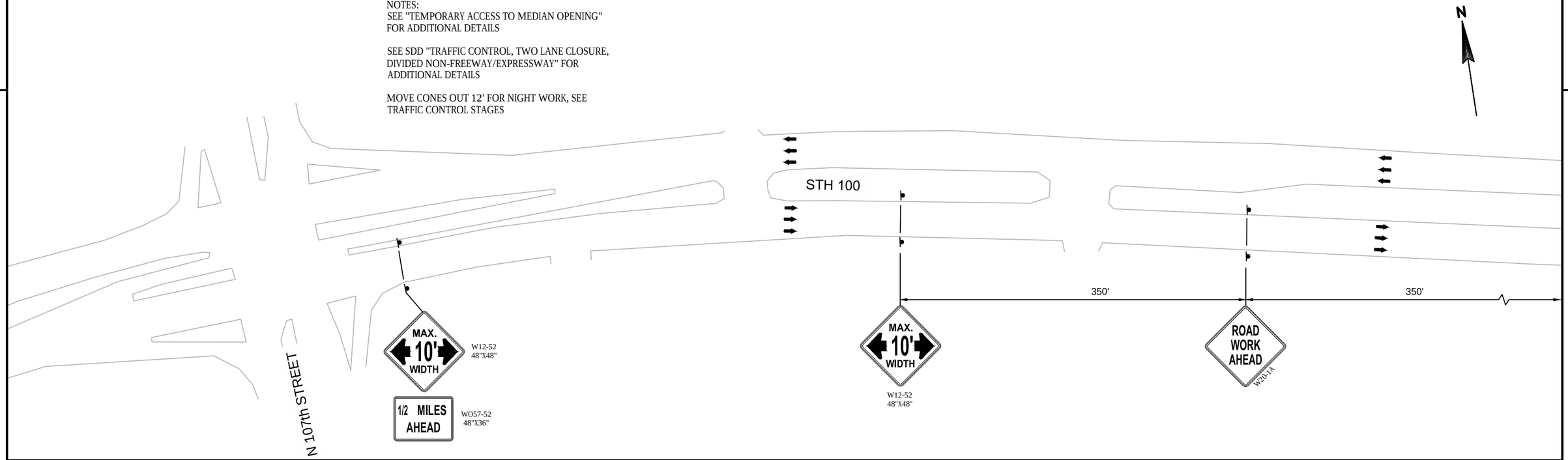
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2A	SHEET 360	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\0262O1-S2A-MAINLINE.DWG
LAYOUT NAME - 07
PLOT DATE : 10/2/2020 12:37 PM
PLOT BY : MAY, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

NOTES:
SEE "TEMPORARY ACCESS TO MEDIAN OPENING" FOR ADDITIONAL DETAILS

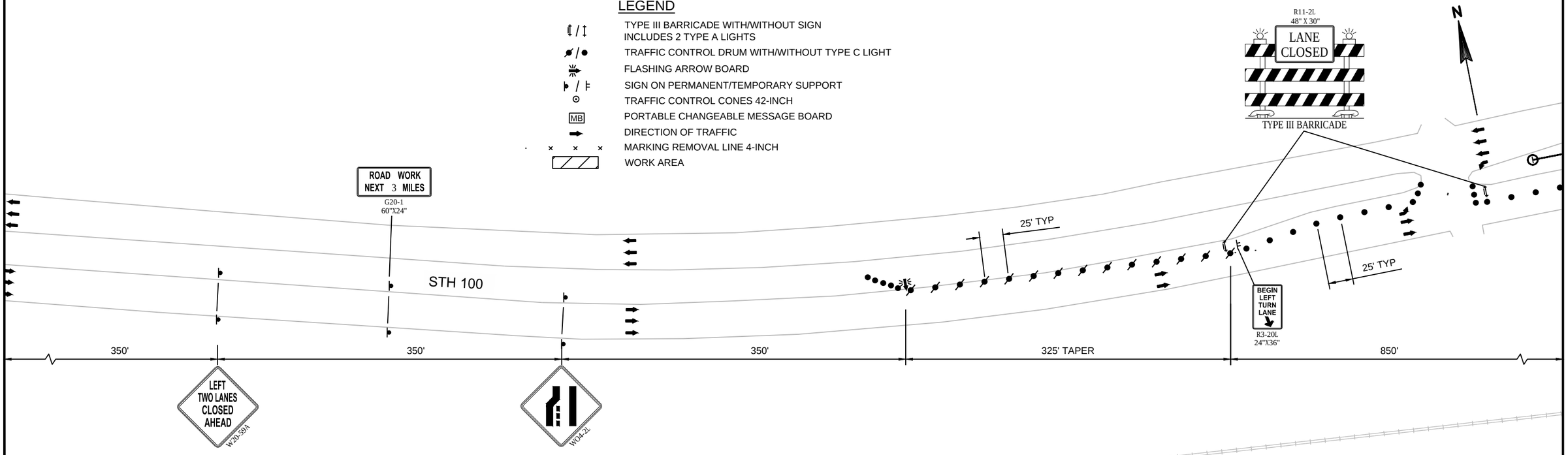
SEE SDD "TRAFFIC CONTROL, TWO LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY" FOR ADDITIONAL DETAILS

MOVE CONES OUT 12' FOR NIGHT WORK, SEE TRAFFIC CONTROL STAGES



LEGEND

- TYPE III BARRICADE WITH/WITHOUT SIGN INCLUDES 2 TYPE A LIGHTS
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT/TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- DIRECTION OF TRAFFIC
- MARKING REMOVAL LINE 4-INCH
- WORK AREA



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2B MAINLINE - TAPER DETAIL	SHEET 361	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\026202-S2B-MAINLINE TAPER.DWG
LAYOUT NAME - 01
PLOT DATE : 10/2/2020 12:30 PM PLOT BY : MAY, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

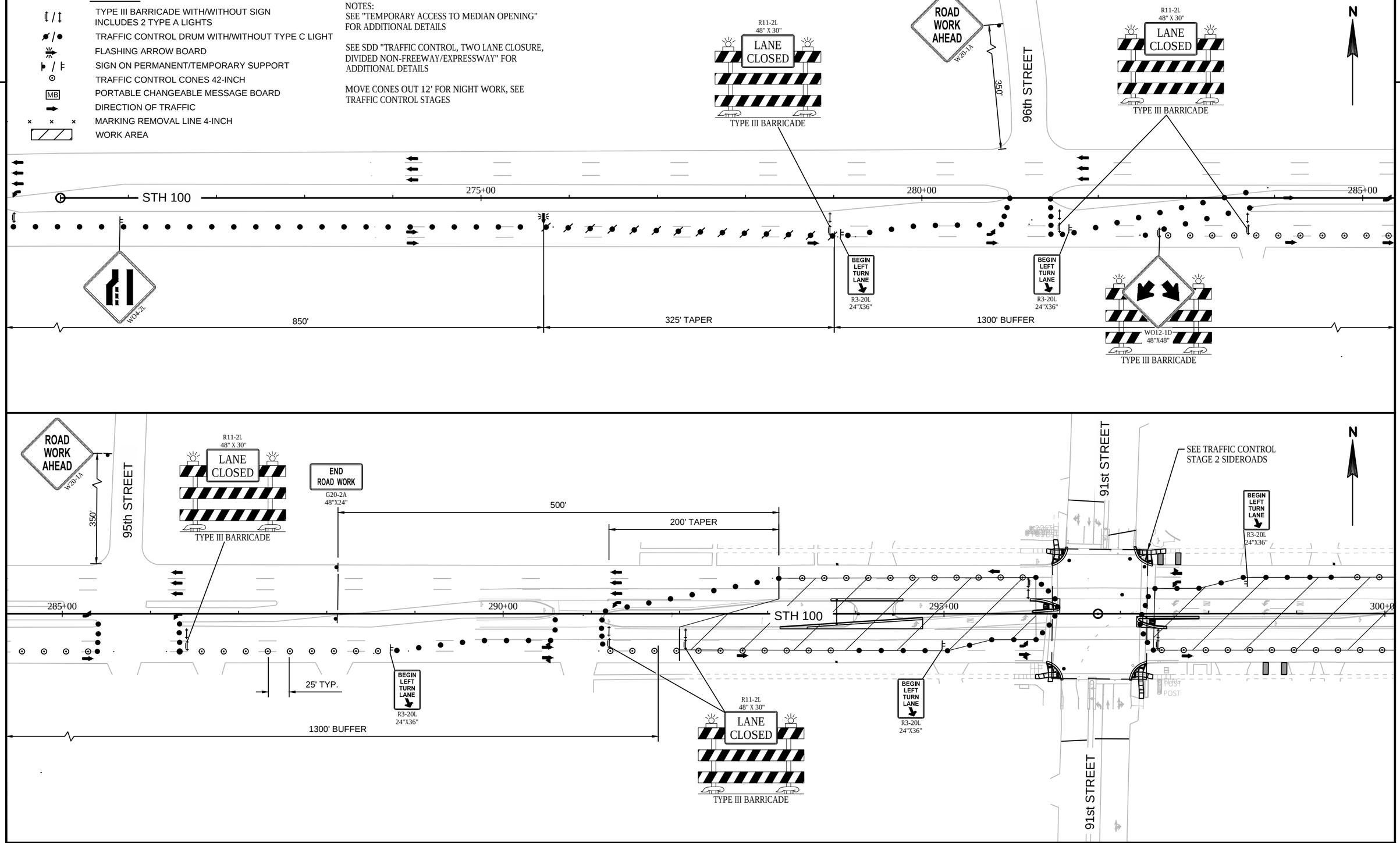
LEGEND

- TYPE III BARRICADE WITH/WITHOUT SIGN INCLUDES 2 TYPE A LIGHTS
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT/TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- DIRECTION OF TRAFFIC
- MARKING REMOVAL LINE 4-INCH
- WORK AREA

NOTES:
SEE "TEMPORARY ACCESS TO MEDIAN OPENING" FOR ADDITIONAL DETAILS

SEE SDD "TRAFFIC CONTROL, TWO LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY" FOR ADDITIONAL DETAILS

MOVE CONES OUT 12' FOR NIGHT WORK, SEE TRAFFIC CONTROL STAGES



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2B MAINLINE - TAPER DETAIL	SHEET 362	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\026202-S2B-MAINLINE TAPER.DWG
LAYOUT NAME - 02

PLOT DATE : 10/2/2020 12:30 PM PLOT BY : MAY, MATTHEW PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

2

R11-2L 48" X 30" LANE CLOSED
TYPE III BARRICADE
WO1-6 48" X 24"
TYPE III BARRICADE
235' BUFFER
25' TYP.
160' TAPER
25' TYP.
R11-2L 48" X 30" LANE CLOSED
TYPE III BARRICADE
ROAD WORK AHEAD W20-1A
350'
DEERBROOK TRAIL
WO1-4R
BEGIN RIGHT TURN LANE R3-20R 24"X36"
R11-2L 48" X 30" LANE CLOSED
TYPE III BARRICADE
325' TAPER
435+00
ROAD WORK AHEAD W20-1A
350'
DEERBROOK DRIVE
BEGIN RIGHT TURN LANE R3-20R 24"X36"
R11-2L 48" X 30" LANE CLOSED
TYPE III BARRICADE
350'
WO4-2L
350'
N
STH 57 SB OFF RAMP
450+00
STH 100
25' TYP.
460+00
25' TYP.
200' TAPER
500'
350'
BEGIN LEFT TURN LANE R3-20L 24"X36"
END ROAD WORK G20-2A 48"X24"
ROAD WORK AHEAD W20-1A
RAILROAD
N RIVER LN
DEERBROOK DRIVE
STH 57 SB ON RAMP

ROAD WORK NEXT 3 MILES G20-1 60"X24"
350'
STH 57
LEFT LANE CLOSED AHEAD W20-5SA
STH 57 NB ON RAMP
350'
ROAD WORK AHEAD W20-1A
350'
W12-52 48"X48" MAX. 10' WIDTH
N KILDEER CT
N
STH 57 SB OFF RAMP
STH 100
STH 57 SB ON RAMP
STH 57 NB OFF RAMP
N KILDEER CT

LEGEND

- TYPE III BARRICADE WITH/WITHOUT SIGN INCLUDES 2 TYPE A LIGHTS
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT/TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- PORTABLE CHANGEABLE MESSAGE BOARD
- DIRECTION OF TRAFFIC
- MARKING REMOVAL LINE 4-INCH
- WORK AREA

NOTES:
SEE "TEMPORARY ACCESS TO MEDIAN OPENING" FOR ADDITIONAL DETAILS

SEE SDD "TRAFFIC CONTROL, TWO LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY" FOR ADDITIONAL DETAILS

MOVE CONES OUT 12' FOR NIGHT WORK, SEE TRAFFIC CONTROL STAGES

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2B MAINLINE - TAPER DETAIL	SHEET 363	E

2

2

MILWAUKEE RIVER

N UPPER RIVER RD

N

STH 100

STH 100

LEGEND

- TYPE III BARRICADE WITH/WITHOUT SIGN INCLUDES 2 TYPE A LIGHTS
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT/TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- PORTABLE CHANGEABLE MESSAGE BOARD (MB)
- DIRECTION OF TRAFFIC
- MARKING REMOVAL LINE 4-INCH
- WORK AREA

N

MAX. 10' WIDTH — W12-52 48"X48"

1/2 MILES AHEAD — WO57-52 48"X36"

N RANGE LINE RD

STH 100

NOTES:
SEE "TEMPORARY ACCESS TO MEDIAN OPENING" FOR ADDITIONAL DETAILS

SEE SDD "TRAFFIC CONTROL, TWO LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY" FOR ADDITIONAL DETAILS

MOVE CONES OUT 12' FOR NIGHT WORK, SEE TRAFFIC CONTROL STAGES

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2B MAINLINE - TAPER DETAIL	SHEET 364	E

2

N

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

WO1-6
48" X 24"
TYPE III BARRICADE

R3-2
24"X24"

SEE STAGE 1AB - SIDEROADS -INSIDE WORK ZONE
TRAFFIC CONTROL DETAILS FOR INSIDE LANE CLOSURES

N 91st ST.

RIGHT TURN ONLY
R3-53R
24"X30"

294

296

298

300

STH 100 (BROWN DEER RD.)

POST

POST

XXXX

N SWAN RD.

RIGHT TURN ONLY
R3-53R
24"X30"

SEE STAGE 1AB - SIDEROADS -INSIDE WORK ZONE
TRAFFIC CONTROL DETAILS FOR INSIDE LANE CLOSURES

R3-2
24"X24"

LEGEND

- TRAFFIC CONTROL SIGN PERMANENT\TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH\WITHOUT TYPE C LIGHT
- TRAFFIC CONTROL 42-INCH CONE
- TRAFFIC CONTROL BARRICADE WITH\WITHOUT SIGN INCLUDES 2 TYPE A LIGHTS
- TRAFFIC FLOW ARROW
- MB PORTABLE CHANGEABLE MESSAGE SIGN
- WORK ZONE

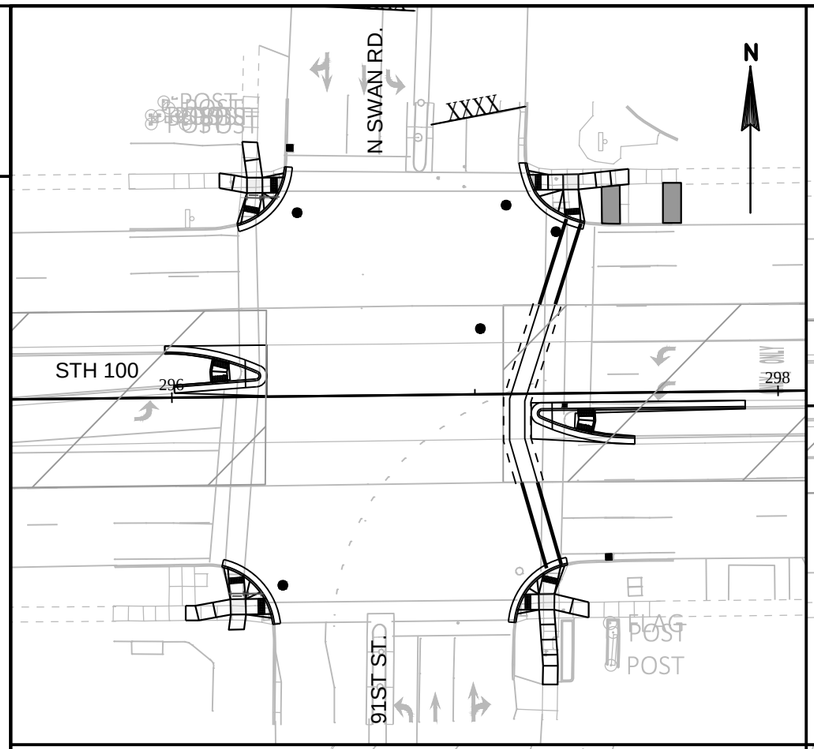
NOTES:
SIDEROADS ARE RESTRICTED TO RIGHT TURN ONLY AT INTERSECTIONS.

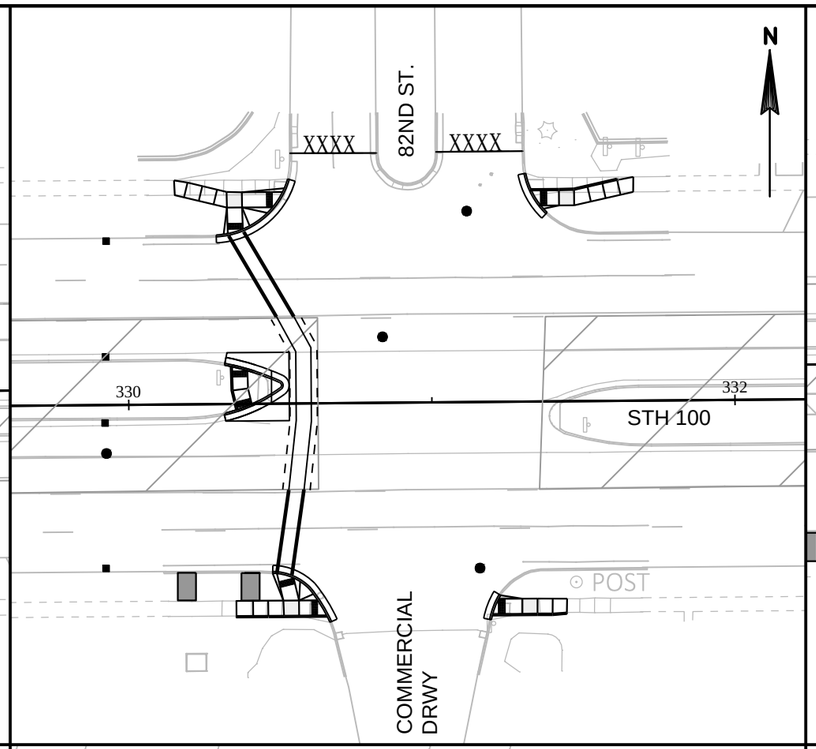
MAINLINE INSIDE WORK ZONE STAGE 2B (NIGHT WORK).
TRAFFIC IN LANE 3.

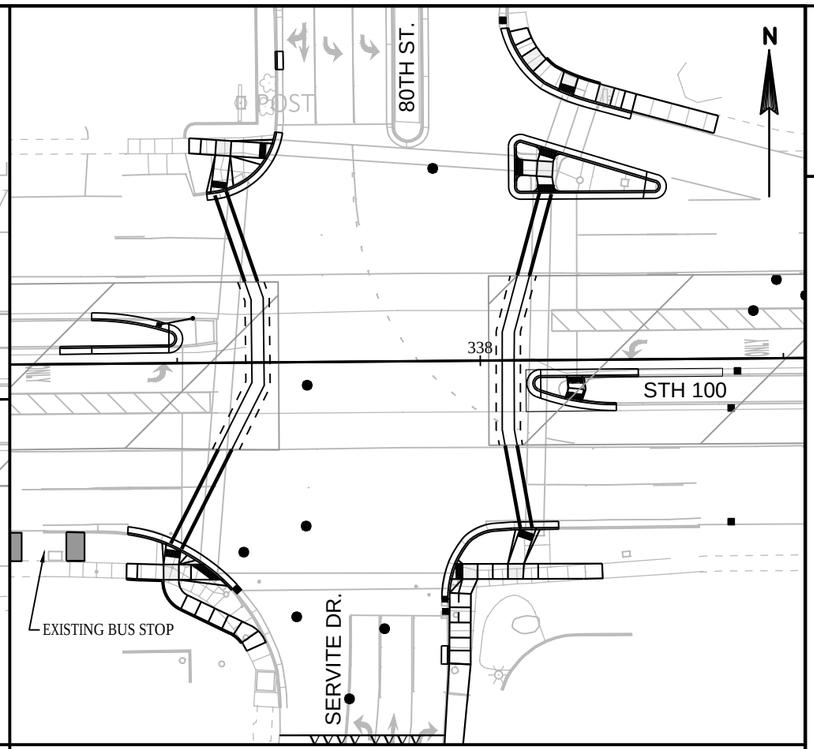
NO TWO CONSECUTIVE INTERSECTIONS OR MEDIAN OPENINGS SHALL BE CLOSED AT ONE TIME.

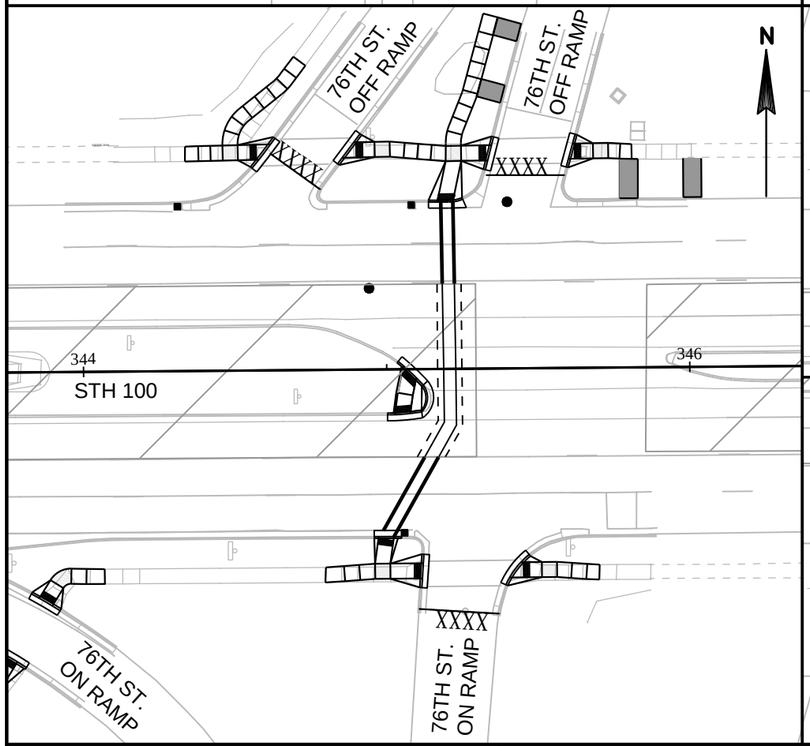
USE DETAIL AT ALL SIDEROADS.

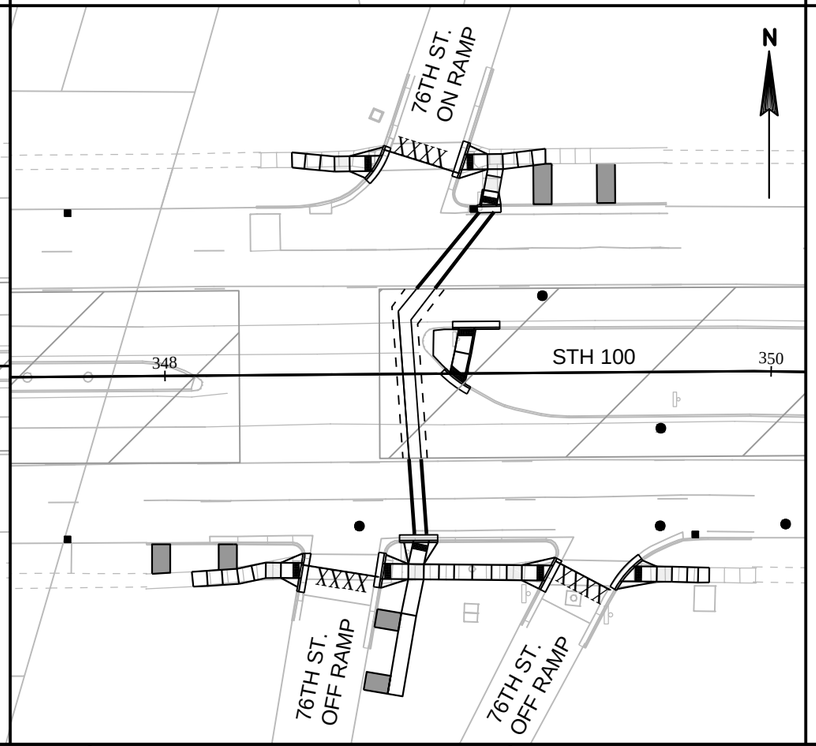
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	STAGE 2B - SIDEROADS	SHEET 365	E











LEGEND

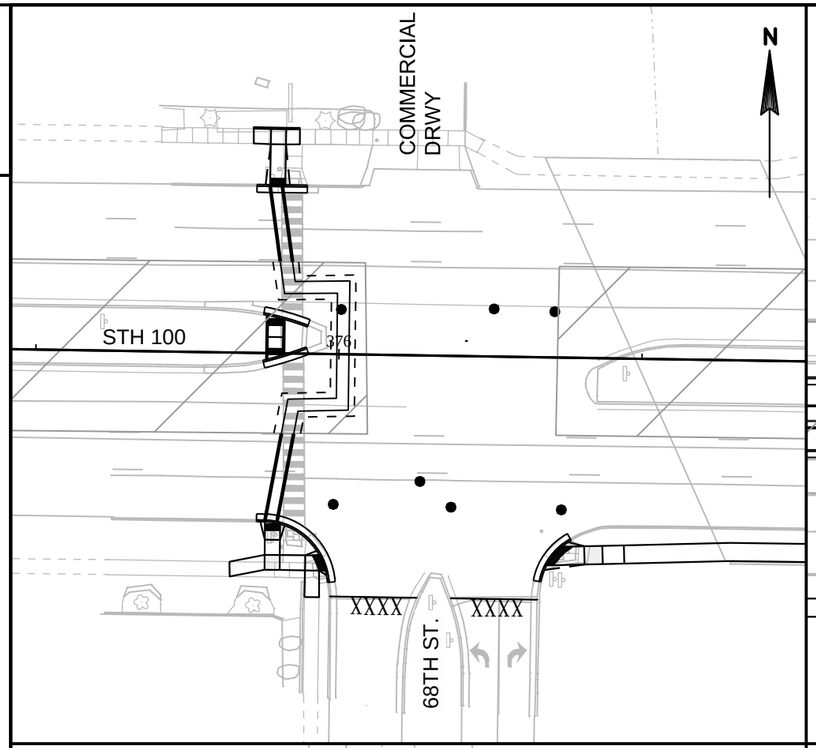
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY MARKING LINE REMOVABLE TAPE, 4-INCH (WHITE)
- TYPE III BARRICADE/TYPE III BARRICADE WITH ATTACHED SIGN R9-11A AND TYPE "A" LIGHTS
- WORK ZONE

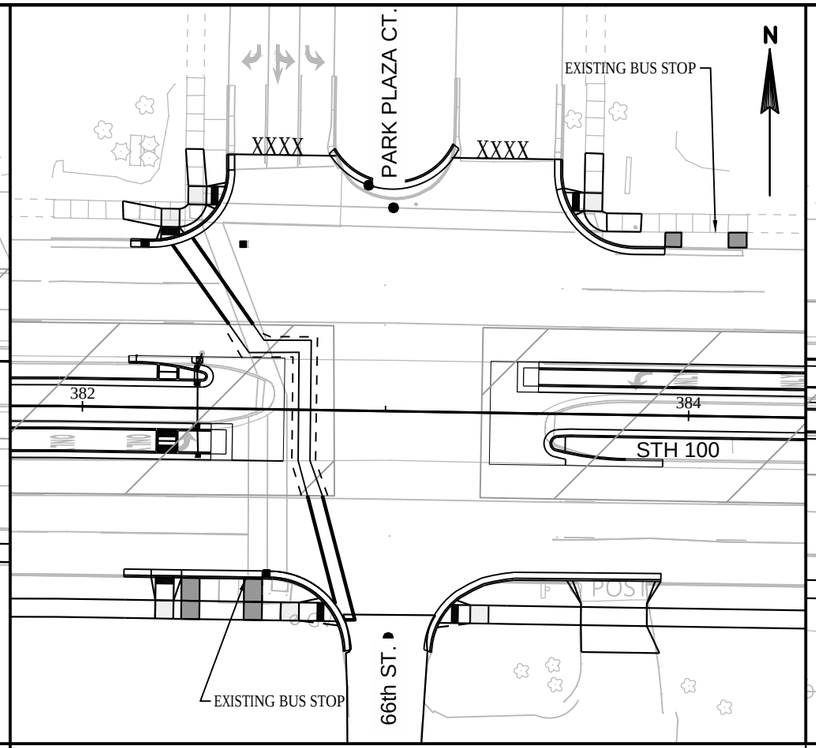
NOTES:

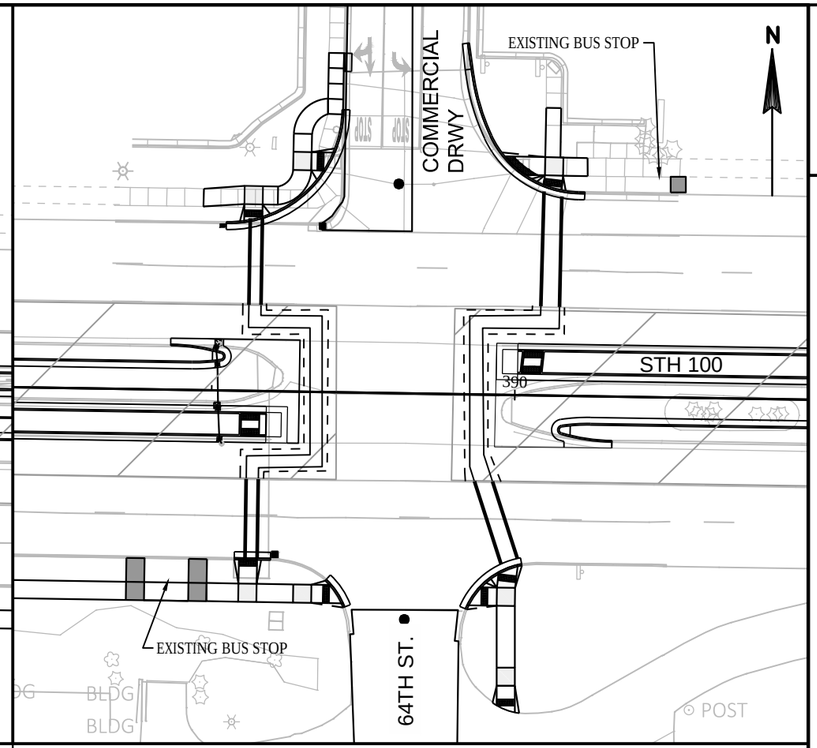
1. PROVIDE PEDESTRIAN SIGNAGE AND TEMPORARY DEVICES IN ACCORDANCE WITH SDD, "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" UNTIL ACCOMMODATIONS CAN BE PROVIDED VIA PERMANENT SIDEWALK PLACEMENT.
2. CONSTRUCT CURB RAMPS DURING STAGE 2A LANE CLOSURES.
3. SIDEWALK STAGING PLAN IS SUGGESTED SEQUENCE TO PERFORM WORK OPERATIONS WHILE MAINTAINING PEDESTRIAN ACCESS. SUBMIT, IN WRITING, ANY MODIFICATIONS TO THE ENGINEER A MINIMUM OF 5 DAYS PRIOR TO BEGINNING WORK.
4. SEE SDD 15D30-A FOR SIGN PLACEMENT FOR PEDESTRIAN ACCOMMODATION.
5. 3 BUS PADS WILL BE SUSPENDED DURING CONSTRUCTION. LOCATIONS ARE EASTBOUND NEAR STA 307+00, EASTBOUND NEAR STA 370+25, AND WESTBOUND NEAR STA 371+50

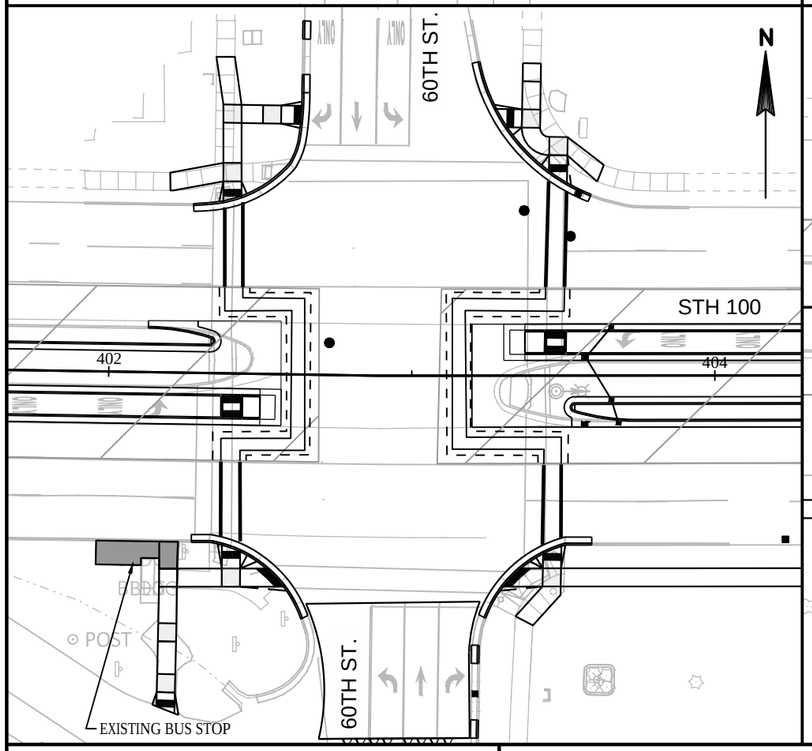
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC CONTROL PEDESTRIAN ACCOMODATIONS STAGE 2	SHEET 366	E

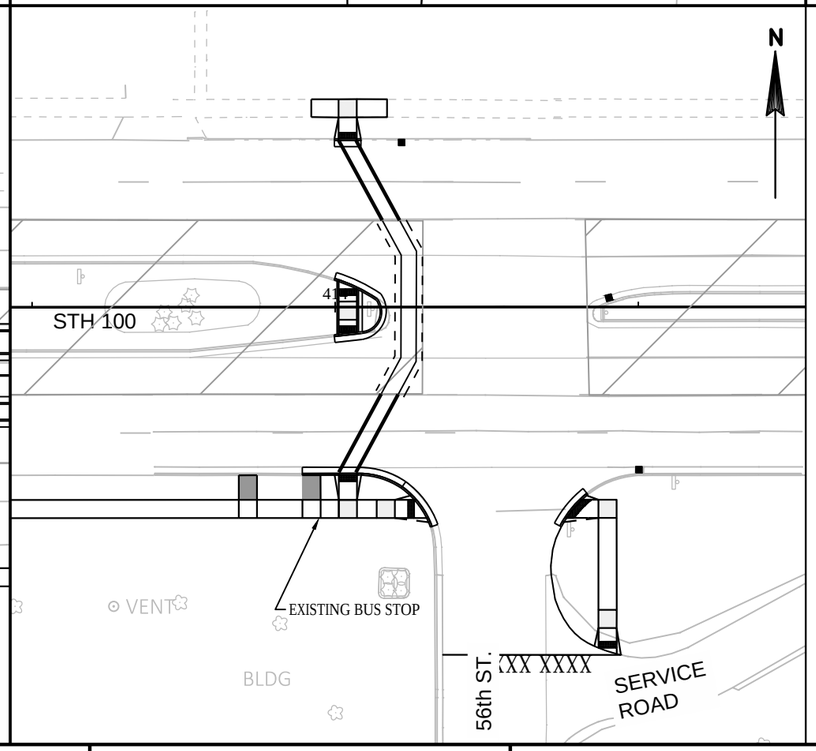
FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\026207-S2AB-PEDESTRIAN.DWG
LAYOUT NAME - 01
PLOT DATE : 10/13/2020 12:02 PM
PLOT BY : SCHMIDT, JUDENE M
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42











LEGEND

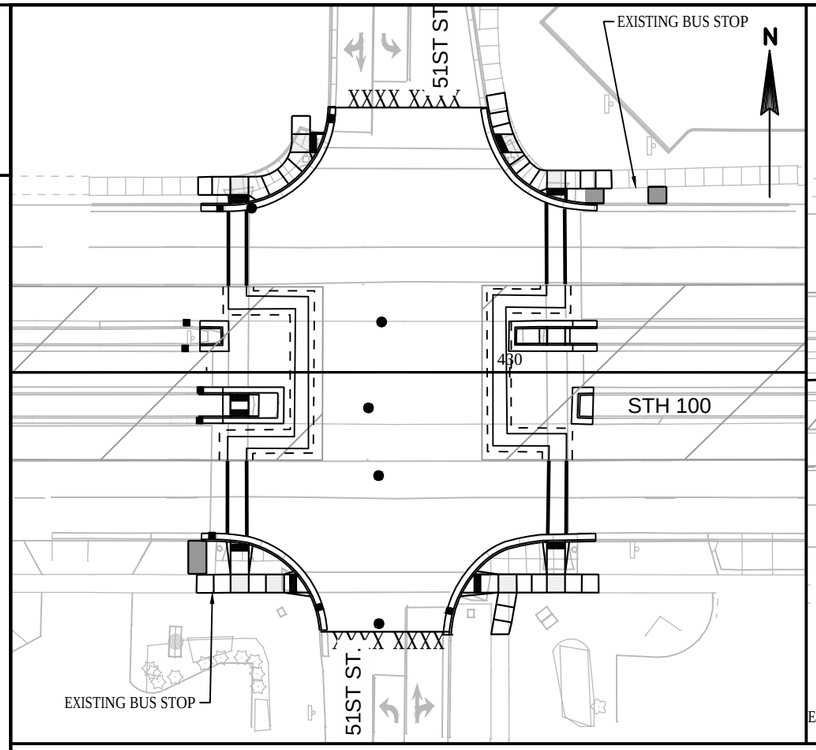
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY MARKING LINE REMOVABLE TAPE, 4-INCH (WHITE)
- TYPE III BARRICADE/TYPE III BARRICADE WITH ATTACHED SIGN R9-11A AND TYPE "A" LIGHTS
- WORK ZONE

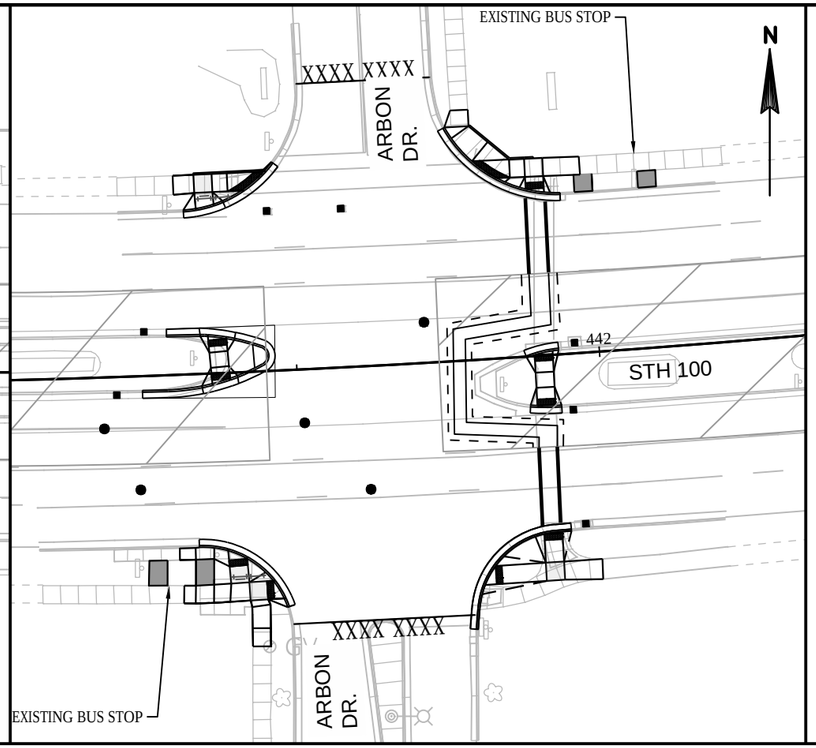
NOTES:

1. PROVIDE PEDESTRIAN SIGNAGE AND TEMPORARY DEVICES IN ACCORDANCE WITH SDD, "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" UNTIL ACCOMMODATIONS CAN BE PROVIDED VIA PERMANENT SIDEWALK PLACEMENT.
2. CONSTRUCT CURB RAMPS DURING STAGE 2A LANE CLOSURES.
3. SIDEWALK STAGING PLAN IS SUGGESTED SEQUENCE TO PERFORM WORK OPERATIONS WHILE MAINTAINING PEDESTRIAN ACCESS. SUBMIT, IN WRITING, ANY MODIFICATIONS TO THE ENGINEER A MINIMUM OF 5 DAYS PRIOR TO BEGINNING WORK.
4. SEE SDD 15D30-A FOR SIGN PLACEMENT FOR PEDESTRIAN ACCOMMODATION.
5. 3 BUS PADS WILL BE SUSPENDED DURING CONSTRUCTION. LOCATIONS ARE EASTBOUND NEAR STA 307+00, EASTBOUND NEAR STA 370+25, AND WESTBOUND NEAR STA 371+50

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC CONTROL PEDESTRIAN ACCOMODATIONS STAGE 2	SHEET 367	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\026207-S2AB-PEDESTRIAN.DWG
LAYOUT NAME - 02
PLOT DATE : 10/13/2020 12:03 PM
PLOT BY : SCHMIDT, JUDENE M
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42





LEGEND

- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY MARKING LINE REMOVABLE TAPE, 4-INCH (WHITE)
- TYPE III BARRICADE/TYPE III BARRICADE WITH ATTACHED SIGN R9-11A AND TYPE "A" LIGHTS
- WORK ZONE

NOTES:

1. PROVIDE PEDESTRIAN SIGNAGE AND TEMPORARY DEVICES IN ACCORDANCE WITH SDD, "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" UNTIL ACCOMMODATIONS CAN BE PROVIDED VIA PERMANENT SIDEWALK PLACEMENT.
2. CONSTRUCT CURB RAMPS DURING STAGE 2A LANE CLOSURES.
3. SIDEWALK STAGING PLAN IS SUGGESTED SEQUENCE TO PERFORM WORK OPERATIONS WHILE MAINTAINING PEDESTRIAN ACCESS. SUBMIT, IN WRITING, ANY MODIFICATIONS TO THE ENGINEER A MINIMUM OF 5 DAYS PRIOR TO BEGINNING WORK.
4. SEE SDD 15D30-A FOR SIGN PLACEMENT FOR PEDESTRIAN ACCOMMODATION.
5. 3 BUS PADS WILL BE SUSPENDED DURING CONSTRUCTION. LOCATIONS ARE EASTBOUND NEAR STA 307+00, EASTBOUND NEAR STA 370+25, AND WESTBOUND NEAR STA 371+50

2

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC CONTROL PEDESTRIAN ACCOMODATIONS STAGE 2	SHEET 368	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\026207-S2AB-PEDESTRIAN.DWG
LAYOUT NAME - 03
PLOT DATE : 10/13/2020 12:04 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

2

N

STH 100

LEFT LANE CLOSED AHEAD W20-5SA

WO4-2L

WO1-6 48" X 24"

TYPE III BARRICADE

R11-2L 48" X 30" LANE CLOSED

TYPE III BARRICADE

350'

350'

350'

325' MERGING TAPER

170' BUFFER

100'

R11-2 48" X 30" ROAD CLOSED

TYPE III BARRICADE

RIGHT TURN ONLY R3-53R 24"X30"

25' TYP

CENTER THROUGH LANE ON STH 100 MUST BE OPEN TO TRAFFIC BY WEEKDAY PEAK TRAVEL PERIOD.

END ROAD WORK G20-2A 48"X24"

200'

66th STREET

350'

ROAD WORK AHEAD W20-1A

R11-2L 48" X 30" LANE CLOSED

TYPE III BARRICADE

WO1-6 48" X 24"

TYPE III BARRICADE

170' BUFFER

125' MERGING TAPER

150'

200'

LEFT LANE CLOSED AHEAD W20-5SA

200'

ROAD WORK AHEAD W20-1A

25' TYP

PARK PLAZA CT

200'

END ROAD WORK G20-2A 48"X24"

R11-2L 48" X 30" LANE CLOSED

TYPE III BARRICADE

170' BUFFER

325' MERGING TAPER

WO1-6 48" X 24"

TYPE III BARRICADE

350'

350'

WO4-2L

LEFT LANE CLOSED AHEAD W20-5SA

STH 100

25' TYP

LEGEND

- TYPE III BARRICADE WITH/WITHOUT SIGN INCLUDES 2 TYPE A LIGHTS
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT/TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- DIRECTION OF TRAFFIC
- MARKING REMOVAL LINE 4-INCH
- WORK AREA

NOTES:
CLOSE INTERSECTION AT 6 PM ON FRIDAY, TWP THROUGH TRAFFIC LANES ON STH 100 TO BE OPEN BY 6 AM MONDAY.

LANE 3 OPEN TO TRAFFIC, LANES 1 AND 2 CLOSED AT INTERSECTION.

LAYOUT WILL REMAIN THE SAME FOR 60TH AND 51ST ST INTERSECTIONS.

RIGHT TURN ONLY AT INTERSECTIONS, CLOSE OTHER LANES AT MULTIPLE LANE INTERSECTIONS.

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2C - PARK PLAZA - 60th ST - 51st ST	SHEET 369	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\026211-S2C- ALL INTS.DWG
LAYOUT NAME - 01
PLOT DATE : 10/5/2020 12:04 PM
PLOT BY : MAY, MATTHEW
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

BEGIN PROJECT
STA 292+00.00
Y = 350292.351
X = 574874.916

PI: 296+74.57

300 — 8 20 "E — 2658.85' — 310 — STH 100 (BROWN DEER RD.) — 320

PI: 323+33.42

SECTION LINE AND
C/L OF ROADWAY

320 — 330 — 8 31 34"E — 2660.88' — 340 — 350

PI: 349+94.30

350 — 360 — 8 0 22"E — 2647.24' — 370

N

2

8 T N 5 4 8 9 R E 21

Y = 350297.449
X = 575349.456

8 T N 4 9 R E 21

Y = 350327.674
X = 578008.138

8 T N 4 3 9 10 R E 21

Y = 350349.684
X = 580668.928

CITY OF MILWAUKEE
VILLAGE OF BROWN DEER

PI: 376+41.54

PI: 377+92.34
Y = 350306.786
X = 583466.641

PI: 381+92.38
Y = 350305.500
X = 583866.670

5' BETWEEN
C/L ROADWAY AND
SECTION LINE

PI: 402+88.30
Y = 350272.563
X = 585962.340

C/L OF ROADWAY

PI: 429+61.30
Y = 350273.883
X = 588635.331

PC: 438+92.62
Y = 350273.505
X = 589566.657

END PROJECT
STA 447+42.00

PT: 449+04.10

N

STA. 376+41.54
SECTION LINE

370

8 48 "E
400.03'

380

8 0 8"E
150.81'

STA. 377+92.35
BEGIN 5' C/L ROADWAY SHIFT

STA. 381+92.35
END 5' C/L ROADWAY SHIFT

390 — 8 0 8"E — 2095.93' — 400

SECTION LINE

410 — 8 8 18"E — 2672.99' — 420 — STH 100 (BROWN DEER RD.) — 430

8 T N 3 10 R E 21

Y = 350309.156
X = 583315.853

8 T N 3 2 10 11 R E 21

Y = 350267.563
X = 585962.302

8 T N 2 11 R E 21

Y = 350268.883
X = 588635.333

430 — 8 8 3 "E — 931.33' — 440

SECTION LINE

PI STA = 444+00.71
Y = 350273.299
X = 590074.749
DELTA 13 30 0 "
D 1 20 0 "
T = 508.09'
L = 1011.48'
R = 4292.40'
PC STA = 438+92.62
PT STA = 449+04.10

PT: 449+04.10

PC: 453+66.89

450 — 31 1 "E — 462.79'

SECTION LINE

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	ALIGNMENT LAYOUT	SHEET 370	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\027201-AD.DWG
LAYOUT NAME - 01

PLOT DATE : 11/3/2020 1:18 PM

PLOT BY : MCKINNEY, SEAN W

PLOT NAME :

PLOT SCALE : 1 IN:500 FT

WISDOT/CADDS SHEET 42

NOTE:
BENCHMARKS SHOULD NOT BE USED
FOR HORIZONTAL CONTROL.

CP 29610
CP 1000 FENO 2IN ALUM CAP
STA 296+10.16, 77.76' LT
E= 575,284.22
N= 350,374.51
EL.= 758.19

PI: 296+74.57

N SWAN RD.

CP 31431
CP 1000 FENO 2IN ALUM CAP
STA 314+31.47, 77.80' LT
E= 577,105.36
N= 350,395.22
EL.= 726.02

N 85th ST.

PI: 323+33.42

SECTION LINE AND
C/L OF ROADWAY

N 82nd ST.

CP 34430
CP 1000 FENO 2IN ALUM CAP
STA 344+31.89, 100.76' LT
E= 580,105.70
N= 350,445.79
EL.= 691.28

N 80th ST.

STH 181/ N 76th ST.

PI: 349+94.30

NORTHRIDGE
LAKE

CP 36374
CP 1000 FENO 2IN ALUM CAP
STA 363+74.41, 64.04' LT
E= 582,049.85
N= 350,392.59
EL.= 697.84

COMM.DRWY

N 70th ST.

STH 100 (BROWN DEER RD.)

300 310 320 330 340 350 360 370

N 91st ST.

CP 30468
CP 1000 FENO 2IN ALUM CAP
STA 304+68.44, 75.11' RT
E= 576,144.13
N= 350,231.37
EL.= 753.11

COMM.DRWY

CP 31992
CP 1000 FENO 2IN ALUM CAP
STA 319+91.77, 78.88' RT
E= 577,667.41
N= 350,244.92
EL.= 717.24

COMM. DRWY

COMM.DRWY

N SERVITE DR.

CP 33214
CP 1000 FENO 2IN ALUM CAP
STA 332+14.86, 90.82' RT
E= 578,890.29
N= 350,244.14
EL.= 704.81

N 76th Pl.

CP 35230
CP 1000 FENO 2IN ALUM CAP
STA 352+30.53, 88.20' RT
E= 580,903.77
N= 350,257.88
EL.= 695.91

N 72nd ST.

STH 181/ N 76th ST.

BEGIN PROJECT
STA 292+00.00

CITY OF MILWAUKEE

VILLAGE OF BROWN DEER

PI: 376+41.54

PI: 377+92.34

PI: 381+92.38

N PARK PLAZA CT.

CP 38418
CP 1000 FENO 2IN ALUM CAP
STA 384+18.85, 75.97' LT
E= 584,094.31
N= 350,377.90
EL.= 676.92

5' BETWEEN
C/L ROADWAY AND
SECTION LINE

BEAVER
CREEK

BM 39762
BM SE COR S WWAL
STA 397+62.03, 66.68' LT
E= 585,437.18
N= 350,347.50
EL.= 664.53

CP 40220
CP 1000 FENO 2IN ALUM CAP
STA 402+20.41, 71.99' LT
E= 585,895.59
N= 350,345.61
EL.= 665.17

N 60th ST.

PI: 402+88.30

C/L OF ROADWAY

CP 40799
CP 1000 FENO 2IN ALUM CAP
STA 407+99.30, 78.08' LT
E= 586,473.30
N= 350,350.90
EL.= 676.17

N 55th ST.

CP 42594
CP 1000 FENO 2IN ALUM CAP
STA 425+94.29, 75.90' LT
E= 588,268.28
N= 350,349.60
EL.= 665.54

COMM. DRWY

N 51st ST.

PI: 429+61.30

BM 42385
BM SW OUTER COR OUTFALL
STA 432+85.25, 82.56' LT
E= 588,959.32
N= 350,356.31
EL.= 658.01

END PROJECT
STA 447+42.00

PC: 438+92.62

C/L OF ROADWAY

N ARBON DR.

PI: 449+04.10

STA. 376+41.54
SECTION LINE

COMM.DRWY

370 380 390 400 410 420 430 440

N 66th ST.

N 64th ST.

STA. 381+92.35
END 5' C/L ROADWAY SHIFT

STA. 377+92.35
BEGIN 5' C/L ROADWAY SHIFT

SERVICE ROAD
(WEST)

CP 39335
CP 1000 FENO 2IN ALUM CAP
STA 393+35.04, 84.17' RT
E= 585,007.87
N= 350,203.38
EL.= 665.58

STH 100 (BROWN DEER RD.)

SECTION LINE

N 60th ST.

SERVICE ROAD
(EAST)

CP 41547
CP 1000 FENO 2IN ALUM CAP
STA 415+47.35, 81.77' RT
E= 587,221.43
N= 350,191.41
EL.= 679.72

N 56th ST.

N 51st ST.

CP 43717
CP 1000 FENO 2IN ALUM CAP
STA 437+17.73, 74.48' RT
E= 589,391.74
N= 350,199.09
EL.= 665.51

N ARBON DR.

SECTION LINE

CP 44182
CP 1000 FENO 2IN ALUM CAP
STA 441+82.24, 76.42' LT
E= 589,850.94
N= 350,359.40
EL.= 662.08

CP 37417
CP 1000 FENO 2IN ALUM CAP
STA 374+17.21, 81.10' RT
E= 583,090.31
N= 350,231.50
EL.= 681.49

BM 37730
BM NW CORNER S. PARAPET
STA 377+30.05, 66.39' RT
E= 583,403.31
N= 350,241.38
EL.= 681.20

CP 44804
CP 1000 FENO 2IN ALUM CAP
STA 448+03.10, 98.99' RT
E= 590,491.16
N= 350,272.56
EL.= 666.63

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	SURVEY CONTROL	SHEET 371	E

FILE NAME : N:\PDS\C3D\21500001\SHEETSPLAN\027202-AD.DWG
LAYOUT NAME - 01

PLOT DATE : 11/3/2020 1:49 PM PLOT BY : MCKINNEY, SEAN W PLOT NAME : PLOT SCALE : 1 IN:500 FT

WISDOT/CADDS SHEET 42

2150-00-71

Line	Item	Item Description	Unit	Total	Qty
0002	108.4400	CPM Progress Schedule	EACH	1.000	1.000
0004	201.0120	Clearing	ID	241.000	241.000
0006	201.0220	Grubbing	ID	241.000	241.000
0008	204.0100	Removing Concrete Pavement	SY	12,000.000	12,000.000
0010	204.0109.S	Removing Concrete Surface Partial Depth	SF	1,115,500.000	1,115,500.000
0012	204.0110	Removing Asphaltic Surface	SY	492.000	492.000
0014	204.0115	Removing Asphaltic Surface Butt Joints	SY	7,424.000	7,424.000
0016	204.0125	Removing Asphaltic Surface Milling	TON	28,545.000	28,545.000
0018	204.0150	Removing Curb & Gutter	LF	3,465.000	3,465.000
0020	204.0155	Removing Concrete Sidewalk	SY	2,371.000	2,371.000
0022	204.0185	Removing Masonry	CY	0.750	0.750
0024	204.0195	Removing Concrete Bases	EACH	71.000	71.000
0026	204.0210	Removing Manholes	EACH	2.000	2.000
0028	204.0220	Removing Inlets	EACH	15.000	15.000
0030	204.0245	Removing Storm Sewer (size) 01. 12-INCH	LF	268.000	268.000
0032	204.0245	Removing Storm Sewer (size) 02. 24-INCH	LF	4.000	4.000
0034	204.9060.S	Removing (item description) 01. LIGHTING UNITS	EACH	10.000	10.000
0036	204.9105.S	Removing (item description) 01. TRAFFIC SIGNALS STH 100 & 60TH STREET	LS	1.000	1.000
0038	204.9105.S	Removing (item description) 02. TRAFFIC SIGNALS STH 100 & SERVITE DR	LS	1.000	1.000
0040	204.9105.S	Removing (item description) 03. TRAFFIC SIGNALS STH 100 & 85TH STREET	LS	1.000	1.000
0042	204.9105.S	Removing (item description) 04. TRAFFIC SIGNALS STH 100 & 64TH STREET	LS	1.000	1.000
0044	204.9105.S	Removing (item description) 05. TRAFFIC SIGNALS STH 100 & 66TH STREET	LS	1.000	1.000
0046	204.9105.S	Removing (item description) 06. LOOP DETECTOR WIRE & LEAD-IN CABLE STH 100 & 60TH STREET	LS	1.000	1.000
0048	204.9105.S	Removing (item description) 07. LOOP DETECTOR WIRE & LEAD-IN CABLE STH 100 & SERVITE DR	LS	1.000	1.000
0050	204.9105.S	Removing (item description) 08. LOOP DETECTOR WIRE & LEAD-IN CABLE STH 100 & 85TH STREET	LS	1.000	1.000
0052	204.9105.S	Removing (item description) 09. LOOP DETECTOR WIRE & LEAD-IN CABLE STH 100 & 64TH STREET	LS	1.000	1.000
0054	204.9105.S	Removing (item description) 10. LOOP DETECTOR WIRE & LEAD-IN CABLE STH 100 & 66TH STREET	LS	1.000	1.000
0056	205.0100	Excavation Common	CY	10,135.000	10,135.000
0058	209.2500	Backfill Granular Grade 2	TON	93.000	93.000
0060	213.0100	Finishing Roadway (project) 01. 2150-00-71	EACH	1.000	1.000
0062	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	8,696.000	8,696.000
0064	305.0130	Base Aggregate Dense 3-Inch	TON	2,280.000	2,280.000

2150-00-71

Line	Item	Item Description	Unit	Total	Qty
0066	320.0145	Concrete Base 8-Inch	SY	436.000	436.000
0068	320.0170	Concrete Base 10 1/2-Inch	SY	298.000	298.000
0070	390.0303	Base Patching Concrete	SY	8,197.000	8,197.000
0072	390.0403	Base Patching Concrete Shes	SY	2,613.000	2,613.000
0074	405.0200	Coloring Concrete Custom 01. SCOFIELD RUST FIELDS	CY	1,448.000	1,448.000
0076	405.0200	Coloring Concrete Custom 02. SCOFIELD SCHOONER BEIGE	CY	317.000	317.000
0078	405.0200	Coloring Concrete Custom 03. SCOFIELD PLUM CHESTNUT	CY	165.000	165.000
0080	415.5110.S	Concrete Pavement Joint Layout	LS	1.000	1.000
0082	416.0260	Concrete Driveway HES 6-Inch	SY	288.000	288.000
0084	416.0610	Drilled Tie Bars	EACH	3,854.000	3,854.000
0086	416.0620	Drilled Dowel Bars	EACH	13,784.000	13,784.000
0088	455.0605	Tack Coat	GAL	22,652.000	22,652.000
0090	460.0105.S	HMA Percent Within Limits (PWL) Test Strip Volumetrics	EACH	2.000	2.000
0092	460.0110.S	HMA Percent Within Limits (PWL) Test Strip Density	EACH	2.000	2.000
0094	460.2005	Incentive Density PWL HMA Pavement	DOL	32,546.000	32,546.000
0096	460.2007	Incentive Density HMA Pavement Longitudinal Joints	DOL	48,326.000	48,326.000
0098	460.2010	Incentive Air Voids HMA Pavement	DOL	40,622.000	40,622.000
0100	460.6223	HMA Pavement 3 MT 58-28 S	TON	25,899.000	25,899.000
0102	460.6224	HMA Pavement 4 MT 58-28 S	TON	17,429.000	17,429.000
0104	465.0125	Asphaltic Surface Temporary	TON	565.000	565.000
0106	520.8000	Concrete Collars for Pipe	EACH	10.000	10.000
0108	521.1217	Apron Endwalls for Pipe Arch Steel 17x13-Inch	EACH	2.000	2.000
0110	521.3717	Pipe Arch Corrugated Steel 17x13-Inch	LF	16.000	16.000
0112	601.0600	Concrete Curb Pedestrian	LF	591.000	591.000
0114	602.0410	Concrete Sidewalk 5-Inch	SF	58,264.000	58,264.000
0116	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	1,654.000	1,654.000
0118	602.0605	Curb Ramp Detectable Warning Field Radial Yellow	SF	292.000	292.000
0120	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	96.000	96.000
0122	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	296.000	296.000
0124	611.0420	Reconstructing Manholes	EACH	8.000	8.000
0126	611.0430	Reconstructing Inlets	EACH	56.000	56.000
0128	611.0555	Manhole Covers Type Q	EACH	7.000	7.000
0130	611.0663	Inlet Covers Type X	EACH	32.000	32.000
0132	611.2004	Manholes 4-FT Diameter	EACH	2.000	2.000
0134	611.3004	Inlets 4-FT Diameter	EACH	2.000	2.000
0136	611.3225	Inlets 2x2.5-FT	EACH	28.000	28.000

2150-00-71

Line	Item	Item Description	Unit	Total	Qty
0138	611.8110	Adjusting Manhole Covers	EACH	57.000	57.000
0140	611.8115	Adjusting Inlet Covers	EACH	183.000	183.000
0142	611.8120.S	Cover Plates Temporary	EACH	108.000	108.000
0144	612.0106	Pipe Underdrain 6-Inch	LF	70.000	70.000
0146	612.0208	Pipe Underdrain Unperforated 8-Inch	LF	27.000	27.000
0148	619.1000	Mobilization	EACH	1.000	1.000
0150	620.0200	Concrete Median Blunt Nose	SF	490.000	490.000
0152	620.0300	Concrete Median Sloped Nose	SF	2,007.000	2,007.000
0154	625.0100	Topsoil	SY	19,213.000	19,213.000
0156	627.0200	Mulching	SY	9,649.000	9,649.000
0158	628.1504	Silt Fence	LF	244.000	244.000
0160	628.1905	Mobilizations Erosion Control	EACH	12.000	12.000
0162	628.1910	Mobilizations Emergency Erosion Control	EACH	6.000	6.000
0164	628.2008	Erosion Mat Urban Class I Type B	SY	9,735.000	9,735.000
0166	628.7005	Inlet Protection Type A	EACH	33.000	33.000
0168	628.7010	Inlet Protection Type B	EACH	294.000	294.000
0170	628.7015	Inlet Protection Type C	EACH	10.000	10.000
0172	628.7020	Inlet Protection Type D	EACH	26.000	26.000
0174	629.0210	Fertilizer Type B	CWT	14.490	14.490
0176	630.0140	Seeding Mixture No. 40	LB	275.400	275.400
0178	630.0200	Seeding Temporary	LB	308.000	308.000
0180	630.0500	Seed Water	MGAL	428.400	428.400
0182	631.0300	Sod Water	MGAL	261.000	261.000
0184	631.1000	Sod Lawn	SY	7,187.000	7,187.000
0186	632.0101	Trees (species) (size) (root) 01. CARPINUS CAROLINIANA 'J.N. UPRIGHT' B&B, 2.5-INCH CAL	EACH	20.000	20.000
0188	632.0101	Trees (species) (size) (root) 02. SYRINGA RETICULATA 'IVORY SILK' B&B, 2.5-INCH CAL	EACH	6.000	6.000
0190	632.0101	Trees (species) (size) (root) 03. GINKGO BILOBA 'PRINCETON SENTRY' B&B, 2.5-INCH CAL	EACH	3.000	3.000
0192	632.0101	Trees (species) (size) (root) 04. MALUS ROYAL RAINDROPS' B&B, 2.5-INCH CAL	EACH	4.000	4.000
0194	632.0101	Trees (species) (size) (root) 05. GLEDITSIA TRIACANTHOS 'SHADEMASTER' B&B, 2.5-INCH CAL	EACH	3.000	3.000
0196	632.0101	Trees (species) (size) (root) 06. CATRAEGUS VIRIDIS 'WINTER KING' B&B, 2.5-INCH CAL	EACH	3.000	3.000
0198	632.0201	Shrubs (species) (size) (root) 01. DIERVILLA LONICERA 'DWARF BUSH' CG, NO.2	EACH	50.000	50.000
0200	632.0201	Shrubs (species) (size) (root) 02. RHUS AROMATICA 'GRO-LOW' CG, NO.2	EACH	26.000	26.000

2150-00-71

Line	Item	Item Description	Unit	Total	Qty
0202	632.0201	Shrubs (species) (size) (root) 03. ROSA RUGOSA 'DWARF PAVEMENT' CG, NO.2	EACH	61.000	61.000
0204	632.9101	Landscape Planting Surveillance and Care Cycles	EACH	10.000	10.000
0206	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	177.000	177.000
0208	634.0816	Posts Tubular Steel 2x2-Inch X 16-FT	EACH	20.000	20.000
0210	637.2210	Signs Type II Reflective H	SF	2,088.105	2,088.105
0212	637.2215	Signs Type II Reflective H Folding	SF	373.000	373.000
0214	637.2230	Signs Type II Reflective F	SF	391.250	391.250
0216	638.2102	Moving Signs Type II	EACH	8.000	8.000
0218	638.2602	Removing Signs Type II	EACH	188.000	188.000
0220	638.3000	Removing Small Sign Supports	EACH	99.000	99.000
0222	643.0300	Traffic Control Drums	DAY	286,588.000	286,588.000
0224	643.0420	Traffic Control Barricades Type III	DAY	74,590.000	74,590.000
0226	643.0705	Traffic Control Warning Lights Type A	DAY	105,832.000	105,832.000
0228	643.0715	Traffic Control Warning Lights Type C	DAY	18,537.000	18,537.000
0230	643.0800	Traffic Control Arrow Boards	DAY	641.000	641.000
0232	643.0900	Traffic Control Signs	DAY	88,920.000	88,920.000
0234	643.0920	Traffic Control Covering Signs Type II	EACH	10.000	10.000
0236	643.1000	Traffic Control Signs Fixed Message	SF	108.000	108.000
0238	643.1050	Traffic Control Signs PCMS	DAY	240.000	240.000
0240	643.1070	Traffic Control Cones 42-Inch	DAY	260,507.000	260,507.000
0242	643.4100.S	Traffic Control Interim Lane Closure	EACH	428.000	428.000
0244	643.5000	Traffic Control 01. 2150-00-71	EACH	1.000	1.000
0246	644.1410	Temporary Pedestrian Surface Asphalt	SF	3,895.000	3,895.000
0248	644.1420	Temporary Pedestrian Surface Plywood	SF	3,632.000	3,632.000
0250	644.1601	Temporary Pedestrian Curb Ramp	DAY	1,344.000	1,344.000
0252	644.1810	Temporary Pedestrian Barricade	LF	13,154.000	13,154.000
0254	645.0112	Geotextile Type DF Schedule B	SY	9.000	9.000
0256	646.1020	Marking Line Epoxy 4-Inch	LF	57,405.000	57,405.000
0258	646.1545	Marking Line Grooved Wet Ref Contrast Epoxy 4-Inch	LF	14,350.000	14,350.000
0260	646.3545	Marking Line Grooved Wet Ref Contrast Epoxy 8-Inch	LF	14,302.000	14,302.000
0262	646.5020	Marking Arrow Epoxy	EACH	80.000	80.000
0264	646.5120	Marking Word Epoxy	EACH	39.000	39.000
0266	646.5320	Marking Railroad Crossings Epoxy	EACH	3.000	3.000
0268	646.6120	Marking Stop Line Epoxy 18-Inch	LF	1,827.000	1,827.000
0270	646.6220	Marking Yield Line Epoxy 18-Inch	EACH	8.000	8.000
0272	646.7120	Marking Diagonal Epoxy 12-Inch	LF	1,208.000	1,208.000
0274	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	6,212.000	6,212.000
0276	646.7520	Marking Crosswalk Epoxy Block Style 24-Inch	LF	888.000	888.000
0278	646.8120	Marking Curb Epoxy	LF	2,703.000	2,703.000

Line	Item	Item Description	Unit	Total	Qty
0280	646.8220	Marking Island Nose Epoxy	EACH	48.000	48.000
0282	646.9000	Marking Removal Line 4-Inch	LF	246.000	246.000
0284	649.0105	Temporary Marking Line Paint 4-Inch	LF	975.000	975.000
0286	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	8,913.000	8,913.000
0288	650.4000	Construction Staking Storm Sewer	EACH	30.000	30.000
0290	650.4500	Construction Staking Subgrade	LF	3,916.000	3,916.000
0292	650.5000	Construction Staking Base	LF	3,916.000	3,916.000
0294	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	7,325.000	7,325.000
0296	650.6000	Construction Staking Pipe Culverts	EACH	1.000	1.000
0298	650.8000	Construction Staking Resurfacing Reference	LF	15,542.000	15,542.000
0300	650.9000	Construction Staking Curb Ramps	EACH	171.000	171.000
0302	650.9910	Construction Staking Supplemental Control (project) 01. 2150-00-71	LS	1.000	1.000
0304	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	6,495.000	6,495.000
0306	652.0230	Conduit Rigid Nonmetallic Schedule 40 2 1/2-Inch	LF	1,475.000	1,475.000
0308	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	4,966.000	4,966.000
0310	652.0605	Conduit Special 2-Inch	LF	73.000	73.000
0312	652.0610	Conduit Special 2 1/2-Inch	LF	105.000	105.000
0314	652.0615	Conduit Special 3-Inch	LF	3,774.000	3,774.000
0316	652.0800	Conduit Loop Detector	LF	10,407.000	10,407.000
0318	653.0135	Pull Boxes Steel 24x36-Inch	EACH	48.000	48.000
0320	653.0140	Pull Boxes Steel 24x42-Inch	EACH	61.000	61.000
0322	653.0905	Removing Pull Boxes	EACH	85.000	85.000
0324	654.0101	Concrete Bases Type 1	EACH	50.000	50.000
0326	654.0105	Concrete Bases Type 5	EACH	7.000	7.000
0328	654.0110	Concrete Bases Type 10	EACH	17.000	17.000
0330	654.0120	Concrete Bases Type 10-Special	EACH	14.000	14.000
0332	654.0217	Concrete Control Cabinet Bases Type 9 Special	EACH	5.000	5.000
0334	655.0240	Cable Traffic Signal 7-14 AWG	LF	6,584.000	6,584.000
0336	655.0260	Cable Traffic Signal 12-14 AWG	LF	21,491.000	21,491.000
0338	655.0270	Cable Traffic Signal 15-14 AWG	LF	125.000	125.000
0340	655.0305	Cable Type UF 2-12 AWG Grounded	LF	8,429.000	8,429.000
0342	655.0515	Electrical Wire Traffic Signals 10 AWG	LF	19,188.000	19,188.000
0344	655.0610	Electrical Wire Lighting 12 AWG	LF	5,085.000	5,085.000
0346	655.0700	Loop Detector Lead In Cable	LF	40,620.000	40,620.000
0348	655.0800	Loop Detector Wire	LF	38,941.000	38,941.000
0350	655.0900	Traffic Signal EVP Detector Cable	LF	5,362.000	5,362.000
0352	657.0100	Pedestal Bases	EACH	21.000	21.000
0354	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	1.000	1.000
0356	657.0322	Poles Type 5-Aluminum	EACH	1.000	1.000

Line	Item	Item Description	Unit	Total	Qty
0358	657.0405	Traffic Signal Standards Aluminum 3.5-FT	EACH	1.000	1.000
0360	657.0420	Traffic Signal Standards Aluminum 13-FT	EACH	1.000	1.000
0362	657.0425	Traffic Signal Standards Aluminum 15-FT	EACH	4.000	4.000
0364	657.0430	Traffic Signal Standards Aluminum 10-FT	EACH	11.000	11.000
0366	657.0610	Luminaire Arms Single Member 4 1/2-Inch Clamp 6-FT	EACH	1.000	1.000
0368	658.0173	Traffic Signal Face 3S 12-Inch	EACH	31.000	31.000
0370	658.0174	Traffic Signal Face 4S 12-Inch	EACH	11.000	11.000
0372	658.0416	Pedestrian Signal Face 16-Inch	EACH	15.000	15.000
0374	658.0500	Pedestrian Push Buttons	EACH	15.000	15.000
0376	658.5069	Signal Mounting Hardware (location) 01. STH 100 & 60TH STREET	LS	1.000	1.000
0378	658.5069	Signal Mounting Hardware (location) 02. STH 100 & SERVITE DR	LS	1.000	1.000
0380	658.5069	Signal Mounting Hardware (location) 03. STH 100 & 85TH STREET	LS	1.000	1.000
0382	658.5069	Signal Mounting Hardware (location) 04. STH 100 & 64TH STREET	LS	1.000	1.000
0384	658.5069	Signal Mounting Hardware (location) 05. STH 100 & 66TH STREET	LS	1.000	1.000
0386	658.5069	Signal Mounting Hardware (location) 06. STH 100 & 91ST STREET	LS	1.000	1.000
0388	659.1125	Luminaires Utility LED C	EACH	14.000	14.000
0390	661.0200	Temporary Traffic Signals for Intersections (location) 01. STH 100 & 60TH STREET	LS	1.000	1.000
0392	661.0200	Temporary Traffic Signals for Intersections (location) 02. STH 100 & SERVITE DR	LS	1.000	1.000
0394	661.0200	Temporary Traffic Signals for Intersections (location) 03. STH 100 & 85TH STREET	LS	1.000	1.000
0396	661.0200	Temporary Traffic Signals for Intersections (location) 04. STH 100 & 64TH STREET	LS	1.000	1.000
0398	661.0200	Temporary Traffic Signals for Intersections (location) 05. STH 100 & 66TH STREET	LS	1.000	1.000
0400	661.0200	Temporary Traffic Signals for Intersections (location) 06. STH 100 & 51ST STREET	LS	1.000	1.000
0402	690.0150	Sawing Asphalt	LF	1,825.000	1,825.000
0404	690.0250	Sawing Concrete	LF	48,361.000	48,361.000
0406	740.0440	Incentive IRI Ride	DOL	35,320.000	35,320.000
0408	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	1,400.000	1,400.000
0410	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	17,280.000	17,280.000
0412	SPV.0035	Special 01. SHREDDED HARDWOOD BARK MULCH	CY	165.000	165.000
0414	SPV.0035	Special 02. ENGINEERED SOIL	CY	37.000	37.000
0416	SPV.0035	Special 03. BEDDING LAYER	CY	8.000	8.000

Line	Item	Item Description	Unit	Total	Qty
0418	SPV.0035	Special 04. STORAGE LAYER	CY	15.000	15.000
0420	SPV.0035	Special 05. COBBLESTONES	CY	9.000	9.000
0422	SPV.0060	Special 01. CLEANING BOX CULVERT B-40-409	EACH	1.000	1.000
0424	SPV.0060	Special 02. CURB RAMP GRADING, SHAPING, AND FINISHING	EACH	144.000	144.000
0426	SPV.0060	Special 03. FIELD FACILITIES OFFICE SPACE	EACH	1.000	1.000
0428	SPV.0060	Special 04. DRAINAGE STRUCTURE CLEANING	EACH	210.000	210.000
0430	SPV.0060	Special 05. SECTION CORNER MONUMENTS	EACH	3.000	3.000
0432	SPV.0060	Special 06. ADJUSTING CUC MANHOLE COVER	EACH	18.000	18.000
0434	SPV.0060	Special 07. ADJUSTING CITY OF MILWAUKEE WATER BOXES	EACH	23.000	23.000
0436	SPV.0060	Special 08. ADJUSTING VILLAGE OF BROWN DEER WATER BOXES	EACH	39.000	39.000
0438	SPV.0060	Special 09. REPAIRING VILLAGE OF BROWN DEER WATER BOXES	EACH	6.000	6.000
0440	SPV.0060	Special 10. ADJUSTING CITY OF MILWAUKEE SANITARY MANHOLE COVERS	EACH	21.000	21.000
0442	SPV.0060	Special 11. ADJUSTING VILLAGE OF BROWN DEER SANITARY MANHOLE COVERS	EACH	19.000	19.000
0444	SPV.0060	Special 12. CITY OF MILWAUKEE INTERNAL SANITARY MANHOLE SEALS	EACH	21.000	21.000
0446	SPV.0060	Special 13. VILLAGE OF BROWN DEER EXTERNAL SANITARY MANHOLE SEALS	EACH	19.000	19.000
0448	SPV.0060	Special 14. METAL WIRING PEDESTAL 4-INCH X 4-INCH X 36-INCH	EACH	1.000	1.000
0450	SPV.0060	Special 15. MASONRY PILLAR AND WALL	EACH	2.000	2.000
0452	SPV.0060	Special 16. Perennials, Geranium x cantabrigiense 'Karmina', CG, No.1	EACH	256.000	256.000
0454	SPV.0060	Special 17. Perennials, Panicum virgatum 'Heavy Metal', CG, No. 1	EACH	33.000	33.000
0456	SPV.0060	Special 18. Perennials, Nepeta x 'Kit Cat', CG, No. 1	EACH	8.000	8.000
0458	SPV.0060	Special 19. Perennials, Schizachyrium scoparium ‘Little Bluestem Grass’, CG, No. 1	EACH	81.000	81.000
0460	SPV.0060	Special 20. Perennials, Calamintha nepeta 'Montrose White', CG, No. 1	EACH	152.000	152.000
0462	SPV.0060	Special 21. Perennials, Sporobulus heterolepsis ‘Prairie Dropseed’, CG, No. 1	EACH	138.000	138.000
0464	SPV.0060	Special 22. REMOVE STOCKPILE, AND REINSTALL MUNICPAL MONUMENT SIGN	EACH	1.000	1.000
0466	SPV.0060	Special 23. SELECT STONE MATERIAL 3'X3'X4'	EACH	9.000	9.000
0468	SPV.0060	Special 24. Perennial Black-Eyed Susan 1 GAL CG	EACH	24.000	24.000
0470	SPV.0060	Special 25. Diablo Ninebark (Summer Wine) 3 GAL CG	EACH	5.000	5.000

Line	Item	Item Description	Unit	Total	Qty
0472	SPV.0060	Special 26. Perennial Daylilies 1 GAL CG	EACH	29.000	29.000
0474	SPV.0060	Special 27. Perennial Purple Coneflower 1 GAL CG	EACH	24.000	24.000
0476	SPV.0060	Special 28. Panicum Grass 1 GAL CG	EACH	7.000	7.000
0478	SPV.0060	Special 29. 6-INCH CLEANOUT	EACH	2.000	2.000
0480	SPV.0060	Special 30. 8-INCH OVERFLOW STANDPIPE WITH DOME GRATE	EACH	2.000	2.000
0482	SPV.0060	Special 31. INLET FRAME WITH GRATE	EACH	2.000	2.000
0484	SPV.0060	Special 32. CONNECT 8-INCH PIPE UNDERDRAIN TO EXISTING INLET	EACH	2.000	2.000
0486	SPV.0060	Special 33. INFORMATIONAL SIGN POST	EACH	2.000	2.000
0488	SPV.0060	Special 34. UTILITY LINE OPENING (ULO)	EACH	31.000	31.000
0490	SPV.0060	Special 35. INSTALL POLES TYPE 10	EACH	17.000	17.000
0492	SPV.0060	Special 36. INSTALL POLES TYPE 9 SPECIAL	EACH	4.000	4.000
0494	SPV.0060	Special 37. INSTALL POLES TYPE 10 SPECIAL	EACH	10.000	10.000
0496	SPV.0060	Special 38. INSTALL MONOTUBE ARMS 15-FT	EACH	12.000	12.000
0498	SPV.0060	Special 39. INSTALL MONOTUBE ARMS 20-FT	EACH	1.000	1.000
0500	SPV.0060	Special 40. INSTALL MONOTUBE ARMS 30-FT	EACH	4.000	4.000
0502	SPV.0060	Special 41. INSTALL MONOTUBE ARMS 35-FT	EACH	2.000	2.000
0504	SPV.0060	Special 42. INSTALL MONOTUBE ARMS 40-FT	EACH	8.000	8.000
0506	SPV.0060	Special 43. INSTALL MONOTUBE ARMS 45-FT	EACH	4.000	4.000
0508	SPV.0060	Special 44. INSTALL LUMINAIRE ARM STEEL 15-FT	EACH	31.000	31.000
0510	SPV.0060	Special 45. TRNSPT & INSTALL (APS) PUSH BTN ASSEM, STH 100 & Servite Dr	EACH	8.000	8.000
0512	SPV.0060	Special 47. Pedestal Bases Black	EACH	29.000	29.000
0514	SPV.0060	Special 48. Transformer Bases Breakaway 11 1/2-Inch Bolt Circle Black	EACH	6.000	6.000
0516	SPV.0060	Special 49. Poles Type 5-Aluminum Black	EACH	6.000	6.000
0518	SPV.0060	Special 50. Traffic Signal Standards Aluminum 3.5-FT Black	EACH	3.000	3.000
0520	SPV.0060	Special 51. Traffic Signal Standards Aluminum 15-FT Black	EACH	2.000	2.000
0522	SPV.0060	Special 52. Traffic Signal Standards Aluminum 10-FT Black	EACH	19.000	19.000
0524	SPV.0060	Special 53. Luminaire Arms Single Member 4 1/2-Inch Clamp 6-FT Black	EACH	6.000	6.000
0526	SPV.0060	Special 54. Traffic Signal Face 3S 12-Inch Black	EACH	56.000	56.000
0528	SPV.0060	Special 55. Traffic Signal Face 4S 12-Inch Black	EACH	26.000	26.000
0530	SPV.0060	Special 56. Pedestrian Signal Face 16-Inch Black	EACH	44.000	44.000
0532	SPV.0060	Special 57. Pedestrian Push Buttons Black	EACH	35.000	35.000
0534	SPV.0060	Special 58. Luminaires Utility LED C Black	EACH	24.000	24.000
0536	SPV.0090	Special 01. CONCRETE CURB AND GUTTER 31-INCH SPECIAL	LF	12,958.000	12,958.000

2150-00-71

Line	Item	Item Description	Unit	Total	Qty
0538	SPV.0090	Special 02. CONCRETE CURB PEDESTRIAN 12-INCH	LF	68.000	68.000
0540	SPV.0090	Special 03. STEEL EDGING MATERIAL	LF	630.000	630.000
0542	SPV.0090	Special 04. COMPACTED GRAVEL LEVELING COURSE	LF	320.000	320.000
0544	SPV.0090	Special 05. ELECTRICAL CABLE TYPE 3#6/1#8 XLP	LF	465.000	465.000
0546	SPV.0090	Special 06. ELECTRICAL CABLE TYPE 3#2/1#8 XLP	LF	1,215.000	1,215.000
0548	SPV.0105	Special 01. MAINTAINING TEMPORARY DRAINAGE	LS	1.000	1.000
0550	SPV.0105	Special 02. Trnspt & Install State Furn Traffic Signal Cabinet STH 100 & 60 STREET	LS	1.000	1.000
0552	SPV.0105	Special 03. Trnspt & Install State Furn Traffic Signal Cabinet STH 100 & SERVITE DR	LS	1.000	1.000
0554	SPV.0105	Special 04. Trnspt & Install State Furn Traffic Signal Cabinet STH 100 & 85th STREET	LS	1.000	1.000
0556	SPV.0105	Special 05. Trnspt & Install State Furn Traffic Signal Cabinet STH 100 & 64th STREET	LS	1.000	1.000
0558	SPV.0105	Special 06. Trnspt & Install State Furn Traffic Signal Cabinet STH 100 & 66th STREET	LS	1.000	1.000
0560	SPV.0105	Special 07. Trnspt Traffic Signals & Inter Lighting Materials, STH 100 & 60th STREET	LS	1.000	1.000
0562	SPV.0105	Special 08. Trnspt Traffic Signals & Inter Lighting Materials, STH 100 & SERVITE DR	LS	1.000	1.000
0564	SPV.0105	Special 09. Trnspt Traffic Signals & Inter Lighting Materials, STH 100 & 85th STREET	LS	1.000	1.000
0566	SPV.0105	Special 10. Trnspt Traffic Signals & Inter Lighting Materials, STH 100 & 64th STREET	LS	1.000	1.000
0568	SPV.0105	Special 11. Trnspt Traffic Signals & Inter Lighting Materials, STH 100 & 66th STREET	LS	1.000	1.000
0570	SPV.0105	Special 12. Trnspt & Install State Furn EVP Heads STH 100 & 60TH STREET	LS	1.000	1.000
0572	SPV.0105	Special 13. Trnspt & Install State Furn EVP Heads STH 100 & 64TH STREET	LS	1.000	1.000
0574	SPV.0105	Special 14. Trnspt & Install State Furn EVP Heads STH 100 & 66TH STREET	LS	1.000	1.000
0576	SPV.0105	Special 15. Remove, Trnsprt, Paint and Reinstall Traf Sig and Light Equip STH 100 & 51ST	LS	1.000	1.000
0578	SPV.0165	Special 01. CONSTRUCTION STAKING SIDEWALK	SF	13,362.000	13,362.000
0580	SPV.0165	Special 02. 10-INCH SNAPPED LIMESTONE WALL	SF	1,000.000	1,000.000
0582	SPV.0180	Special 01. Concrete Pavement SHES 9-Inch	SY	6,360.000	6,360.000
0584	SPV.0195	Special 01. JOINT AND CRACK REPAIR	TON	724.000	724.000

3

CPM PROGRESS SCHEDULE

CATEGORY	LOCATION	108.4400 CPM PROGRESS SCHEDULE EACH
0010	PROJECT	1
FINAL TOTAL		1

REMOVALS

CATEGORY	STAGE	STATION	TO	STATION	201.0120 CLEARING ID	201.0220 GRUBBING ID	204.0100 REMOVING CONCRETE PAVEMENT SY	204.0109.S REMOVING CONCRETE SURFACE PARTIAL DEPTH SF	204.0110 REMOVING ASPHALTIC SURFACE SY	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	204.0125 REMOVING ASPHALTIC SURFACE MILLING TON	204.0150 REMOVING CURB AND GUTTER LF
0010	STAGE 1A	292+00	-	332+00	24	24	209	94656	6	2421	2477	431
		332+00	-	374+00	106	106	203	100800	-	1502	2833	745
		374+00	-	410+00	111	111	123	86400	485	1275	2457	1169
		410+00	-	447+42	-	-	102	89976	1	1000	2336	624
	TOTAL				241	241	637	371832	492	6198	10103	2969
	STAGE 1B	292+00	-	332+00	-	-	-	94656	-	66	919	-
		332+00	-	374+00	-	-	3	100800	-	-	991	-
		374+00	-	410+00	-	-	-	86400	-	-	850	-
		410+00	-	447+42	-	-	-	89976	-	68	873	-
	TOTAL				0	0	3	371832	0	134	3633	0
	STAGE 2A	292+00	-	332+00	-	-	610	-	-	132	2957	12
		332+00	-	374+00	-	-	1531	-	-	-	3048	211
		374+00	-	410+00	-	-	2753	-	-	-	2442	30
		410+00	-	447+42	-	-	186	-	-	190	2730	223
	TOTAL				0	0	5080	0	0	322	11177	476
	STAGE 2B	292+00	-	332+00	-	-	-	94656	-	66	919	-
		332+00	-	374+00	-	-	3	100800	-	-	991	-
		374+00	-	410+00	-	-	-	86400	-	-	850	-
		410+00	-	447+42	-	-	-	89976	-	68	873	-
	TOTAL				0	0	3	371832	0	134	3632.748	0
UNDISTRIBUTED - DRIVEWAYS					-	-	-	-	-	636	-	-
FINAL TOTALS					**241**	**241**	**5723**	**1115500**	**492**	**7424**	**28545**	**3445**

SHEET 1 OF 24

3

REMOVALS CONTINUED

CATEGORY	STAGE	STATION	TO	STATION	204.0155 REMOVING CONCRETE SIDEWALK SY	390.0303 BASE PATCHING CONCRETE SY	390.0403 BASE PATCHING CONCRETE SHES SY	*416.0610 DRILLED TIE BARS EA	416.0620 DRILLED DOWEL BARS EA	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF	SPV.0195.01 JOINT & CRACK REPAIR TON
0010	STAGE 1A	292+00	-	332+00	427	788	91	377	1202	432	4144	152
		332+00	-	374+00	739	2190	-	958	1982	327	8005	284
		374+00	-	410+00	516	1515	-	652	1152	580	4823	76
		410+00	-	447+42	610	452	-	258	848	390	3017	146
	TOTAL				2292	4945	91	2245	5184	1729	19989	658
	STAGE 1B	292+00	-	332+00	-	-	247	17	440	12	749	-
		332+00	-	374+00	-	-	318	23	512	-	902	-
		374+00	-	410+00	-	-	388	20	528	-	897	-
		410+00	-	447+42	-	-	246	19	472	12	838	-
	TOTAL				0	0	1199	79	1952	24	3386	0
	STAGE 2A	292+00	-	332+00	-	486	-	273	568	24	2830	-
		332+00	-	374+00	5	725	-	286	940	-	5129	-
		374+00	-	410+00	35	975	-	205	1324	-	5965	-
		410+00	-	447+42	39	676	-	319	1208	24	3382	-
	TOTAL				79	2862	0	1083	4040	48	17306	0
	STAGE 2B	292+00	-	332+00	-	-	247	17	440	12	749	-
		332+00	-	374+00	-	-	318	23	512	-	902	-
		374+00	-	410+00	-	-	388	20	528	-	897	-
		410+00	-	447+42	-	-	246	19	472	12	838	-
	TOTAL				0	0	1199	79	1952	24	3386	0
	UNDISTRIBUTED				-	390	124	174	656	-	2203	66
FINAL TOTALS					**2371**	**8197**	**2613**	**3660**	**13784**	**1825**	**46270**	**724**

*QUANTITIES SHOWN ELSEWHERE

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIES	SHEET:	E

3

REMOVING MASONRY

CATEGORY	STATION	OFFSET	204.0185 REMOVING MASONRY CY
0050	382+10	5' LT	0.75
FINAL TOTAL			0.75

REMOVING STRUCTURES

CATEGORY		STATION	OFFSET	SIDE	204.0210 REMOVING MANHOLES EACH	204.0220 REMOVING INLETS EACH
		294+02	0'	RT	---	1
		294+44	1'	RT	---	1
		297+30	7'	RT	---	1
		311+43	15'	RT	---	1
		379+43	15'	RT	---	1
		382+38	15'	LT	---	1
		382+38	5'	RT	---	1
		385+92	15'	RT	---	1
0010	STAGE 2A	385+93	15'	LT	---	1
		389+02	15'	LT	---	1
		389+02	4'	RT	---	1
		389+03	16'	RT	1	---
		391+92	7'	LT	---	1
		399+18	15'	RT	---	1
		400+08	0'	RT	1	---
		400+10	7'	RT	---	1
		406+32	15'	LT	---	1
FINAL TOTAL					**2**	**15**

REMOVING STORM SEWER

CATEGORY		STATION	TO	STATION	LOCATION	204.0245.01 REMOVING STORM SEWER 12-INCH LF	204.0245.02 REMOVING STORM SEWER 24-INCH LF
		293+78	-	294+44	MEDIAN	94	---
		297+30	-	297+30	MEDIAN	3	---
		379+43	-	379+43	MEDIAN	15	---
		382+38	-	382+39	MEDIAN	35	---
		385+92	-	985+93	MEDIAN	30	---
0010	STAGE 2A	389+02	-	389+03	MEDIAN	34	---
		389+01	-	389+05	LT	---	4
		391+92	-	391+92	MEDIAN	16	---
		399+18	-	399+18	MEDIAN	10	---
		400+08	-	400+10	MEDIAN	15	---
		406+32	-	406+32	MEDIAN	16	---
FINAL TOTAL						**268**	**4**

SHEET 3 OF 24

3

Earthwork Summary			A	B	C	D	E	F	G	H	I	J
			*Item #205.0100		**	**	Item #305.0130	**	**	**	**	Item #208.0100
Division	From/To Station	Location	Excavation Common (1) (CY)		Salvaged/Unusable Pavement Material (6)	Available Material (7)	Expanded EBS Backfill	Unexpanded Fill	Expanded Fill (8) (CY)	Mass Ordinate +/- (5)(9)	Waste	Borrow (14)
			Cut (2) (CY)	EBS Excavation (3)(4)(5) (CY)	(CY)	(CY)	(3) (TON) Factor 1.20	(CY)	Factor 1.20	(CY)	(CY)	(CY)
1	376+84 - 414+10	STH 100 Outside	487	0	70	417	0	52	62	355		
Division 1 Subtotal			487	0	70	417	0	52	62	355	355	
	101+00 - 102+75	STH 100 Median	5,386	0	1,564	3,822	0	68	81	3,741		
Division 2 Subtotal			5,386	0	1,564	3,822	0	68	81	3,741	3,741	
Undistributed				1,000			2,280				1,000	
Grand Total			5,874	1,000	1,634	4,240	2,280	120	144	4,096	5,096	0
Total Common Exc				6,874								

1) Common Excavation is the sum of the Cut (A) and EBS Excavation (B) columns. Item number 205.0100
2) Salvaged/Unsuable Pavement Material (C) is included in Cut (A).
3) EBS Excavation (B) to be backfilled with Base Aggregate Dense 3-Inch (E).
4) EBS Excavation (B) volume is based on an assumed volume. Actual EBS areas to be determined by the engineer.
5) EBS Excavation Material (B) shall be removed from the site and shall not be used as fill material. EBS Excavation material (B) is not included in the Mass Ordinate (H) but is included in waste volume (I).
6) Salvaged/Unusable Pavement Material (C) is included in the Cut (A). This assumes the existing pavement structure is salvaged or wasted by the contractor. The existing pavement structure is not shown on the cross sections.
7) Available Material (D) = Cut (A) - Salvaged/Unusuable Pavement Material (C)
8) Expanded Fill (G) = (Unexpanded Fill (F)) * Expanded Fill Factor (1.15)
9) The Mass Ordinate (H) + or - Qty calculated for the Division. Plus quantity indicates a waste volume of material within the Division. Minus indicates a borrow volume of material within the Division.
* Quantities Shown Elsewhere
** For Information Only
All Items Catergory 0010

BACKFILL GRANULAR

CATEGORY	STAGE	STATION	TO	STATION	LOCATION	209.2500 BACKFILL GRANULAR GRADE 2 TON	COMMENTS
0010	1A/2A	292+00	-	332+00		21	BACKFILLING CONCRETE BASES AND PULLBOXES
		332+00	-	374+00		17	BACKFILLING CONCRETE BASES AND PULLBOXES
		374+00	-	410+00		55	BACKFILLING CONCRETE BASES AND PULLBOXES
		410+00	-	447+42		-	BACKFILLING CONCRETE BASES AND PULLBOXES
	FINAL TOTAL					**93**	

BASE AGGREGATE DENSE

CATEGORY	STAGE	STATION	TO	STATION	LOCATION	*305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	COMMENTS
0010	1A	292+00	-	332+00		26	
		332+00	-	374+00		54	
		374+00	-	410+00		448	
		410+00	-	447+42		110	
		TOTAL				638	
	2A	292+00	-	332+00		306	
		332+00	-	374+00		1150	
		374+00	-	410+00		2882	
		410+00	-	447+42		12	
		TOTAL				4350	
		UNDISTRIBUTED				250	
	FINAL TOTAL					**5238**	

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

NOTE: THICKNESS VARIES - SEE CONSTRUCTION DETAILS AND TYPICAL SECTIONS.

12" BASE AGGREGATE UNDER NEW LEFT TURN LANES
8.25" BASE AGGREGATE DENSE UNDER CURB AND GUTTER AT LEFT TURN LANES
6" BASE AGGREGATE UNDER CONCRETE DRIVEWAYS
4" BASE AGGREGATE UNDER SIDEWALK 5-INCH

FOR INFORMATION ONLY

MATERIAL UNIT WEIGHTS USED:	
BASE AGGREGATE DENSE 1 1/4-INCH	2.0 TON/CY

SHEET 5 OF 24

3

ADJUSTING & RECONSTRUCTING STORM SEWER

CATEGORY	STAGE	STATION	To	STATION	320.0145 CONCRETE BASE 8-INCH SY	320.0170 CONCRETE BASE 10 1/2-INCH SY	416.0610* DRILLED TIE BARS EA	465.0125 ASPHALTIC SURFACE TEMPORARY TON	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
		292+00	-	332+00	30	12	-	8.5	-	7	4	25	4
0010		332+00	-	374+00	40	81	-	57.3	-	13	27	29	27
	STAGE 1A	374+00	-	410+00	33	12	-	8.5	-	11	6	24	6
		410+00	-	447+42	39	0	-	0.0	-	7	1	34	1
		WEDGING LAYER FOR BUTT JOINTS			-	-	-	280.0	-	-	-	-	-
	TOTAL				142	105	0	354	1	38	38	112	38
		292+00	-	332+00	-	0	-	0.0	-	-	0	-	0
		332+00	-	374+00	-	3	-	2.1	-	-	1	-	1
	STAGE 1B	374+00	-	410+00	-	0	-	0.0	-	-	0	-	0
		410+00	-	447+42	-	0	-	0.0	-	-	0	-	0
		WEDGING LAYER FOR BUTT JOINTS			-	-	-	12.0	-	-	-	-	-
	TOTAL				0	3	0	14	1	0	1	0	1
		292+00	-	332+00	19	21	10	14.9	-	1	7	19	7
		332+00	-	374+00	20	15	8	10.6	-	7	5	14	5
	STAGE 2A	374+00	-	410+00	13	0	0	0.0	-	4	0	10	0
		410+00	-	447+42	29	12	4	8.5	-	3	5	28	5
		WEDGING LAYER FOR BUTT JOINTS			-	-	-	3.0	-	-	-	-	-
	TOTAL				81	48	22	37	1	15	17	71	17
		292+00	-	332+00	-	0	-	0.0	-	-	0	-	0
		332+00	-	374+00	-	3	-	2.1	-	-	1	-	1
	STAGE 2B	374+00	-	410+00	-	0	-	0.0	-	-	0	-	0
		410+00	-	447+42	-	0	-	0.0	-	-	0	-	0
		WEDGING LAYER FOR BUTT JOINTS			-	-	-	11.0	-	-	-	-	-
	TOTAL				0	3	0	13	0	0	1	0	1
		UNDISTRIBUTED - DRIVEWAYS						37					
FINAL TOTAL					**223**	**159**	**22**	**456**	**3**	**53**	**57**	**183**	**57**

*QUANTITIES SHOWN ELSEWHERE

**FIELD VERIFIED BY THE ENGINEER

3

ASPHALTIC ITEMS

CATEGORY	STAGE	ROADWAY	STATION	TO	STATION	LOCATION	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	465.0105 ASPHALTIC SURFACE TON	COMMENTS
0010	1A & 1B	STH 100	292+00	-	332+00	RT/LT	847	1706	-	-	LANE 3 EB & WB
	OUTSIDE						183	425			RT TURNS & SIDEROADS
	LOWER LAYER		332+00	-	374+00	RT/LT	889	1817	-	-	LANE 3 EB & WB
							247	572			RT TURNS & SIDEROADS
			374+00	-	410+00	RT/LT	683	1424	-	-	LANE 3 EB & WB
							143	332			RT TURNS & SIDEROADS
			410+00	-	447+42	RT/LT	781	1566	-	-	LANE 3 EB & WB
							77	178			RT TURNS & SIDEROADS
		STAGE 1A TOTAL					3850	8020			
	2A & 2B	STH 100	292+00	-	332+00	RT/LT	1472	3412	-	-	LANES 1 & 2 EB & WB
	INSIDE						494	1208			LT TURN LANES & MEDIAN AREAS
	LOWER LAYER		332+00	-	374+00	RT/LT	1568	3634	-	-	LANES 1 & 2 EB & WB
							486	1316			AREAS
			374+00	-	410+00	RT/LT	1228	2848	-	-	LANES 1 & 2 EB & WB
							359	1247			LT TURN LANES & MEDIAN AREAS
			410+00	-	447+42	RT/LT	1352	3132	-	-	LANES 1 & 2 EB & WB
							457	1082	-	-	LT TURN LANES & MEDIAN AREAS
		STAGE 2A, 2B TOTAL					7416	17879			

SHEET 7 OF 24

3

ASPHALTIC ITEMS CONTINUED

CATEGORY	STAGE	ROADWAY	STATION	TO	STATION	LOCATION	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	465.0105 ASPHALTIC SURFACE TON	COMMENTS
0010	32A & 3B INSIDE UPPER LAYER	STH 100	292+00	-	332+00	RT/LT	1472	-	2172	-	LANES 1 & 2 EB & WB
							494		880		LT TURN LANES & MEDIAN AREAS
			332+00	-	374+00	RT/LT	1568	-	2312	-	LANES 1 & 2 EB & WB
							486		852		LT TURN LANES & MEDIAN AREAS
			374+00	-	410+00	RT/LT	1228	-	1812	-	LANES 1 & 2 EB & WB
							359		649		LT TURN LANES & MEDIAN AREAS
			410+00	-	447+42	RT/LT	1352	-	1992	-	LANES 1 & 2 EB & WB
							457	-	842	-	LT TURN LANES & MEDIAN AREAS
		STAGE 3A, 3B TOTAL					7416	0	11511		
	4A & 4B OUTSIDE UPPER LAYER	STH 100	292+00	-	332+00	RT/LT	847	-	1250	-	LANE 3 EB & WB
							183		270		RT TURNS & SIDEROADS
							56		113	--	DRIVEWAYS
			332+00	-	374+00	RT/LT	889	-	1311	-	LANE 3 EB & WB
							247		364		RT TURNS & SIDEROADS
							26		52	--	DRIVEWAYS
			374+00	-	410+00	RT/LT	683	-	1008	-	LANE 3 EB & WB
							143		211		RT TURNS & SIDEROADS
							17		34	--	DRIVEWAYS
			410+00	-	447+42	RT/LT	781	-	1150	-	LANE 3 EB & WB
							77		113		RT TURNS & SIDEROADS
							21		42	--	DRIVEWAYS
		STAGE 4A, 4B TOTAL					3970	0	5918	0	
		TOTAL					22,652	25,899	17,429	--	

SHEET 8 OF 24

3

HMA PAVEMENT PERCENT WITHIN LIMITS (PWL)

CATEGORY	PROJECT	MIX TYPE	460.0105.S HMA PERCENT WITHIN LIMITS (PWL) TEST STRIP VOLUMETRICS EACH	460.0110.S HMA PERCENT WITHIN LIMITS (PWL) TEST STRIP DENSITY EACH
0010	2150-00-70	3 MT 58-28 S	1	1
		4 MT 58-28 S	1	1
	TOTAL		2	2

HMA QUALITY MANAGEMENT

								Quality Management Program to be used for:	
	Location	**Station**	**Mixture Use:**	**Underlying Surface**	**Bid Item**	**Tons**	**Thickness**	**Mixture Acceptance**	**Density Acceptance**
Stg. 1A & 1B	12' Driving Lane (Lane 3 EB & WB)	292+00 to 447+42	lower layer	Existing Concrete Pavt	3MT58-28S	6513	2 1/4"	PWL Incentive Air Voids HMA Pavement 460.2010	Incentive Density **PWL** HMA Pavement 460.2005
Stg. 2A & 2B	12' Driving Lane (Lane 2, EB & WB)	292+00 to 447+42	lower layer	Existing Concrete Pavt	3MT58-28S	6513	2 1/4"	PWL Incentive Air Voids HMA Pavement 460.2010	Incentive Density **PWL** HMA Pavement 460.2005
Stg. 2A & 2B	12' Driving Lane (Lane 1, EB & WB)	292+00 to 447+42	lower layer	Existing Concrete Pavt	3MT58-28S	6513	2 1/4"	PWL Incentive Air Voids HMA Pavement 460.2010	Incentive Density **PWL** HMA Pavement 460.2005
Stg. 2A (medians)	12' Left Turn Lanes & median areas (EB & WB)	292+00 to 447+42	lower layer	Varies - gravel at areas with lane extensions or realignments, Existing Concrete Pavt elsewhere	3MT58-28S	4853	2 1/4"	PWL Incentive Air Voids HMA Pavement 460.2010	Acceptance testing by the department; Not eligible for incentive or disincentive
STAGE 3A & 3B	12' Driving Lane (Lane 2, EB & WB)	292+00 to 447+42	upper layer	3MT58-28S	4MT58-28S	4144	1 3/4"	PWL Incentive Air Voids HMA Pavement 460.2010	Incentive Density **PWL** HMA Pavement 460.2005
STAGE 3A & 3B	12' Driving Lane (Lane 1, EB & WB)	292+00 to 447+42	upper layer	3MT58-28S	4MT58-28S	4144	1 3/4"	PWL Incentive Air Voids HMA Pavement 460.2010	Incentive Density **PWL** HMA Pavement 460.2005
STAGE 3A (Medians)	12' Left Turn Lanes & median areas (EB & WB)	292+00 to 447+42	upper layer	3MT58-28S	4MT58-28S	3223	1 3/4"	PWL Incentive Air Voids HMA Pavement 460.2010	Acceptance testing by the department; Not eligible for incentive or disincentive
STAGE 4A & 4B	12' Driving Lane (Lane 3 EB & WB)	292+00 to 447+42	upper layer	3MT58-28S	4MT58-28S	4719	1 3/4"	PWL Incentive Air Voids HMA Pavement 460.2010	Incentive Density **PWL** HMA Pavement 460.2005

CONCRETE ITEMS

CATEGORY	STAGE	STATION	TO	STATION	*320.0145 CONCRETE BASE 8 - INCH SY	416.0260 CONCRETE DRIVEWAY HES 6 - INCH SY	601.0600 CONCRETE CURB PEDESTRIAN LF	*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	620.0200 CONCRETE MEDIAN BLUNT NOSE SF	620.0300 CONCRETE MEDIAN SLOPED NOSE (TYPE 1) SF	620.0300 CONCRETE MEDIAN SLOPED NOSE (TYPE 2) SF	SPV.0090.01* CONCRETE CURB & GUTTER 31-INCH SPECIAL LF	SPV.0090.02 CONCRETE CURB PEDESTRIAN 12-INCH LF	COMMENTS
0010	STAGE 1A , 1B	292+00	-	332+00	-	16	115	4010	260	0	-	-	-	691	21	
		332+00	-	374+00	-	0	55	7656	430	16	-	51	71	1481	47	
		374+00	-	382+00	-	272	26	4449	284	101	-	-	-	1474	-	
		410+00	-	447+42	-	0	53	5774	264	175	-	-	-	1053	-	
	TOTAL				0	288	249	21889	1238	292	0	51	71	4699	68	
	STAGE 2A, 2B	292+00	-	332+00	48	-	30	132	60	0	-	139	0	842	-	
		332+00	-	374+00	44	-	183	538	120	0	-	335	164	1890	-	
		374+00	-	410+00	82	-	98	410	140	0	490	698	36	5016	-	
		410+00	-	447+42	39	-	31	419	96	0	0	513	0	473	-	
	TOTAL				213	0	342	1499	416	0	490	1685	200	8221	0	
	FINAL TOTAL				**213**	**288**	**591**	**23,388**	**1,654**	**292**	**490**	**1,736**	**271**	**12,920**	**68**	

*QUANTITIES SHOWN ELSEWHERE

CULVERTS

CATEGORY	STAGE	INLET STATION	INLET OFFSET	INLET INVERT ELEVATION	DISCHARGE STATION	DISCHARGE OFFSET	DISCHARGE INVERT ELEVATION	PIPE SLOPE	521.1217 APRON ENDWALLS FOR PIPE ARCH STEEL 17X13-INCH EACH	521.3717 PIPE ARCH CORRUGATED STEEL 17X13-INCH LF
0010	STAGE 1A	402+26.9	93.7' RT	663.52	402+12.3	87.2' RT	663.24	1.79%	2	16
	FINAL TOTAL								**2**	**16**

VILLAGE OF BROWN DEER SIDEWALK

CATEGORY	STAGE	STATION	TO	STATION	*602.0410 CONCRETE SIDEWALK 5-INCH SF	COMMENTS
0100	STAGE 1A , 1B	374+00	-	382+00	10914	
		410+00	-	447+42	2407	
	FINAL TOTAL				**13321**	

*QUANTITIES SHOWN ELSEWHERE

SHEET 10 OF 24

STORM SEWER STRUCTURES

CATEGORY	STRUCTURE NUMBER	STATION	OFFSET	RIM ELEV	LOWEST PIPE INVERT ELEV	TOP OF STRUCTURE ELEV	BOTTOM OF STRUCTURE ELEV	STR DEPTH FEET	520.8000 CONCRETE COLLARS FOR PIPE EACH	** 611.0420 RECONSTRUCTING MANHOLES EACH	** 611.0430 RECONSTRUCTING INLETS EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3225 INLETS 2X2.5-FT EACH	611.0555 MANHOLE COVERS TYPE Q EACH	611.0663 INLET COVERS TYPE X EACH
0010	1A	293+78.4	16.0' LT	752.88	748.71	751.88	748.54	3.33	---	---	---	---	---	1	---	1
	1B	293+78.2	11.8' RT	752.69	748.44	751.69	748.27	3.42	---	---	---	---	---	1	---	1
	1	293+78.3	0.9' RT	753.32	---	---	---	---	---	1	---	---	---	---	---	---
	2A	311+42.7	8.6' RT	732.53	728.15	731.53	727.98	3.55	---	---	---	---	---	1	---	1
	2	311+42.6	16.0' RT	---	---	---	---	---	1	---	---	---	---	---	---	---
	3A	367+46.0	16.0' LT	693.13	688.54	692.13	688.38	3.75	---	---	---	---	---	1	---	1
	3	367+45.8	10.7' LT	693.54	---	---	---	---	---	1	---	---	---	---	1	---
	4A	371+91.2	4.0' LT	681.59	676.88	680.59	676.72	3.87	---	---	---	---	---	1	---	1
	4	371+93.0	15.5' LT	681.35	---	---	---	---	---	---	1	---	---	---	---	1
	5A	379+43.0	2.1' RT	678.11	673.55	677.11	673.39	3.72	---	---	---	---	---	1	---	1
	5	379+43.0	15.9' RT	---	---	---	---	---	1	---	---	---	---	---	---	---
	6	382+38.4	15.7' RT	676.52	671.67	675.52	671.50	4.02	---	---	1	---	---	---	---	1
	6A	382+38.0	6.0' RT	677.11	671.67	676.11	671.50	4.60	---	---	---	---	---	1	---	1
	6B	382+37.9	8.0' LT	677.65	671.67	676.65	671.50	5.15	---	---	---	---	---	1	---	1
	6C	382+37.6	13.6' LT	678.04	671.67	677.04	671.50	5.54	---	---	---	---	---	1	---	1
	6D	382+39.2	18.1' LT	---	---	---	---	---	1	---	---	---	---	---	---	---
	7A	385+92.0	15.8' RT	---	---	---	---	---	1	---	---	---	---	---	---	---
	7B	385+93.9	9.8' RT	673.87	669.28	672.87	669.11	3.76	---	---	---	---	---	1	---	1
	7C	385+92.6	6.5' LT	674.96	668.99	673.96	668.82	5.13	---	---	---	---	---	1	---	1
	7	385+92.6	15.4' LT	---	---	---	---	---	1	---	---	---	---	---	---	---
	8A	389+03.5	17.5' RT	---	---	---	---	---	1	---	---	---	---	---	---	---
	8B	389+02.8	16.0' RT	670.69	665.32	669.69	665.15	4.53	---	---	---	---	---	1	---	1
	8C	389+02.2	6.0' RT	671.08	665.18	670.08	665.01	5.07	---	---	---	---	---	1	---	1
	8D	389+01.7	8.6' LT	671.49	664.96	670.49	664.79	5.70	---	---	---	---	---	1	---	1
	8E	389+01.2	14.2' LT	671.75	664.87	670.75	664.70	6.05	---	---	---	---	---	1	---	1
SUBTOTALS									**6**	**2**	**2**	**0**	**0**	**15**	**1**	**17**

** QUANITIES SHOWN ELSEWHERE

STORM SEWER STRUCTURES CONTINUED

CATEGORY	STRUCTURE NUMBER	STATION	OFFSET	RIM ELEV	LOWEST PIPE INVERT ELEV	TOP OF STRUCTURE ELEV	BOTTOM OF STRUCTURE ELEV	STR DEPTH FEET	520.8000 CONCRETE COLLARS FOR PIPE EACH	** 611.0420 RECONSTRUCTING MANHOLES EACH	** 611.0430 RECONSTRUCTING INLETS EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3225 INLETS 2X2.5-FT EACH	611.0555 MANHOLE COVERS TYPE Q EACH	611.0663 INLET COVERS TYPE X EACH
0010	8	389+02.3	15.5' LT	---	---	---	---	---	1	---	---	---	---	---	---	---
	9A	391+92.3	6.5' RT	666.46	662.45	665.46	662.28	3.18	---	---	---	---	---	1	---	1
	9B	391+71.7	16.0' LT	667.19	662.65	666.19	662.48	3.70	---	---	---	---	---	1	---	1
	9C	391+71.7	6.0' LT	667.01	662.55	666.01	662.38	3.62	---	---	---	---	---	1	---	1
	9	391+92.3	8.7' LT	666.75	662.34	665.43	661.68	3.75	---	---	---	1	---	---	1	---
	10A	399+18.3	16.1' RT	---	---	---	---	---	1	---	---	---	---	---	---	---
	10	399+18.2	6.4' RT	663.62	659.34	662.62	658.68	3.94	---	---	---	---	---	1	---	1
	11A	400+41.7	16.0' RT	664.19	659.90	663.19	659.73	3.46	---	---	---	---	---	1	---	1
	11B	400+41.7	6.3' RT	663.89	659.80	662.89	659.63	3.25	---	---	---	---	---	1	---	1
	11C	400+10.3	7.6' RT	663.77	659.49	662.45	659.32	3.13	---	---	---	1	---	---	1	---
	11D	400+08.0	0.3' RT	663.55	---	---	---	---	---	---	---	---	1	---	1	---
	11E	400+08.0	4.9' LT	663.42	659.36	662.42	659.19	3.23	---	---	---	---	---	1	---	1
	11	400+08.0	7.7' LT	---	---	---	---	---	1	---	---	---	---	---	---	---
	12	403+57.0	16.0' RT	---	---	---	---	---	---	1	---	---	---	---	1	---
	12A	403+65.8	16.0' LT	666.01	662.90	665.01	662.73	2.27	---	---	---	---	---	1	---	1
	12B	403+57.4	6.0' LT	665.73	---	---	---	---	---	---	1	---	---	---	---	1
	12C	403+68.2	15.8' RT	665.67	662.56	664.67	662.39	2.28	---	---	---	---	---	1	---	1
	12D	403+65.8	8.0' RT	665.65	662.48	664.65	662.31	2.34	---	---	---	---	---	1	---	1
	13A	406+31.7	0.2' RT	671.30	667.29	670.30	667.12	3.18	---	---	---	---	---	1	---	1
	13	406+31.8	16.1' LT	---	---	---	---	---	1	---	---	---	---	---	---	---
	14	297+29.6	4.0' RT	758.39	754.88	757.39	754.21	3.18	---	---	---	---	---	1	---	1
	15A	336+94.2	12.7' LT	694.83	691.48	693.83	691.31	2.52	---	---	---	---	---	1	---	1
	15	337+05.2	14.7' LT	694.82	---	---	---	---	---	1	---	---	---	---	1	---
	16A	389+02.7	54.4' LT	671.37	663.70	670.37	663.70	6.67	---	---	---	---	1	---	---	1
	16	389+35.8	55.3' LT	670.68	---	---	---	---	---	1	---	---	---	---	1	---
SUBTOTALS									**4**	**3**	**1**	**2**	**2**	**13**	**6**	**15**
UNDISTRIBUTED - SEE NOTE 7									**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**
PROJECT TOTALS									**10**	**5**	**3**	**2**	**2**	**28**	**7**	**32**

** QUANITIES SHOWN ELSEWHERE

3

STORM SEWER PIPES

							608.0312	608.0412	
							STORM SEWER PIPE REINFORCED CONCRETE		
							CLASS III	CLASS IV	
CATEGORY	PIPE NUMBER	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE (%)	12-INCH LF	12-INCH LF	COMMENTS
0010	P1A	1A	1	748.71	748.33	2.25%	---	16.9	
	P1B	1B	1	748.44	748.36	0.73%	---	10.9	
	P1	1	EXIST SS	---	----	---	---	---	
	P2A	2A	2	728.15	728.00	2.00%	---	7.4	
	P2	2	EXIST SS	---	---	---	---	---	SEE NOTE 5
	P3A	3A	3	688.54	688.49	1.00%	---	5.3	
	P3	3	EXIST SS	---	---	---	---	---	
	P4A	4A	4	676.88	676.65	2.00%	11.6	---	
	P4	4	EXIST SS	---	---	---	---	---	
	P5A	5A	5	673.55	673.54	0.11%	---	13.8	
	P5	5	EXIST SS	---	---	---	---	---	SEE NOTE 5
	P6	6	6A	671.67	671.67	0.00%	9.7	---	
	P6A	6A	6B	671.67	671.67	0.00%	14.0	---	
	P6B	6B	6C	671.67	671.67	0.00%	5.6	---	
	P6C	6C	6D	671.67	671.67	0.00%	4.8	---	
	P6D	6D	EXIST SS	---	---	---	---	---	SEE NOTE 5
	P7A	7A	7B	669.35	669.28	1.11%	---	6.3	SEE NOTE 5
	P7B	7B	7C	669.28	668.99	1.78%	---	16.3	
	P7C	7C	7	668.99	668.89	1.13%	---	8.9	
	P7	7	EXIST SS	---	---	---	---	---	SEE NOTE 5
	P8A	8A	8B	665.34	665.32	1.20%	1.7	---	SEE NOTE 5
	P8B	8B	8C	665.32	665.18	1.41%	10.0	---	
	P8C	8C	8D	665.18	664.96	1.53%	14.6	---	
	P8D	8D	8E	664.96	664.87	1.50%	5.7	---	
	P8E	8E	8	664.87	664.84	1.81%	1.7	---	
SUBTOTALS							**80**	**86**	

STORM SEWER PIPES CONTINUED

CATEGORY	PIPE NUMBER	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE (%)	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0412 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 12-INCH LF	COMMENTS
0010	P8	8	EXIST SS	---	---	---	---	---	SEE NOTE 5
	P9A	9A	9	662.45	662.34	0.72%	---	15.2	
	P9B	9B	9C	662.65	662.55	1.00%	---	10.0	
	P9C	9C	9	662.55	662.34	1.00%	---	20.8	
	P9	9	EXIST SS	---	---	---	---	---	
	P10A	10A	10	659.44	659.34	0.96%	---	9.8	SEE NOTE 5
	P10	10	EXIST SS	---	---	---	---	---	
	P11A	11A	11B	659.90	659.80	1.00%	---	9.7	
	P11B	11B	11C	659.80	659.49	1.00%	---	31.4	
	P11C	11C	11D	659.49	659.41	1.03%	---	7.7	
	P11D	11D	11E	659.41	659.36	1.05%	---	5.2	
	P11E	11E	11	659.36	659.31	1.60%	---	2.8	
	P11	11	EXIST SS	---	---	---	---	---	SEE NOTE 5
	P12	12	EXIST SS	---	---	---	---	---	
	P12A	12A	12B	662.90	662.60	2.30%	---	13.0	
	P12B	12B	EXIST SS	---	---	---	---	---	
	P12C	12C	12D	662.56	662.48	1.00%	---	8.1	
	P12D	12D	12B	662.48	662.32	1.00%	---	16.3	
	P13A	13A	13	667.29	667.11	1.11%	---	16.3	
	P13	13	EXIST SS	---	---	---	---	---	SEE NOTE 5
	P14	14	EXIST SS	---	---	---	---	---	
	P15A	15A	15	691.48	691.37	1.00%	---	11.3	
	P15	15	EXIST SS	---	---	---	---	---	
	P16A	16A	EXIST SS	---	---	---	---	---	
	P16	16	EXIST SS	---	---	---	---	---	
SUBTOTALS							**0**	**178**	
UNDISTRIBUTED - SEE NOTE 7							**16**	**32**	
PROJECT TOTALS							**96**	**296**	

NOTES

1. RIM ELEVATIONS ARE GIVEN AT THE FLANGE LINE FOR INLET GRATES, AND AT THE CENTER OF THE MANHOLE STRUCTURE FOR MANHOLES.
2. STATIONS AND OFFSETS ARE TO THE CENTER OF STRUCTURES.
3. STRUCTURE DEPTH:
   MANHOLES: RIM ELEV - INVERT ELEV - CASTING HEIGHT - 6" ADJUSTMENT
   INLETS: RIM ELEV - INVERT ELEV - CASTING HEIGHT - 6"ADJUSTMENT
4. CASTING HEIGHT = 9.84" FOR TYPE Q COVERS; 6" FOR TYPE X COVERS
5. CONNECT TO EXISTING STORM SEWER PIPE WITH CONCRETE COLLAR
6. PIPE LENGTHS ARE FROM CENTER TO CENTER OF STRUCTURES
7. UNDISTRIBUTED PIPE TO BE USED AS NEEDED AS DIRECTED BY ENGINEER TO REPLACE SECTIONS OF PIPE IN POOR CONDITION AT CONNECTION TO NEW STORM SEWER OR STORM SEWER STRUCTURES.
   STORM SEWER DAMAGED BY CONTRACTOR DURING STORM SEWER REMOVALS OR STORM SEWER INSTALLATION SHALL BE REPLACED BY THE CONTRACTOR FOR NO ADDITIONAL COMPENSATION.

3

EROSION CONTROL AND LANDSCAPING

CATEGORY	STAGE	STATION	TO	STATION	*625.0100 TOPSOIL SY	627.0200 MULCHING SY	628.1504 SILT FENCE LF	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	*628.2008 EROSION MAT URBAN CLASS I TYPE B SY	628.7005 INLET PROTECTION TYPE A EA	628.7010 INLET PROTECTION TYPE B EA	628.7015 INLET PROTECTION TYPE C EA	628.7020 INLET PROTECTION TYPE D EA
0010	STAGE 1A	292+00	-	332+00	159	-	-	-	-	-	-	31	-	-
		332+00	-	374+00	159	-	-	-	-	-	-	43	-	7
		374+00	-	410+00	1224	-	151	-	-	-	-	38	-	3
		410+00	-	447+42	1498	-	44	-	-	-	3	32	-	4
		CONDUIT TRENCHING			714	-	-	-	-	-	-	-	-	-
		GS&F CURB RAMPS			-	-	-	-	-	-	-	-	-	-
		CLEANING BOX CULVERT B40-409			1111	-	-	-	-	1111	-	-	-	-
	TOTAL				4865	-	195	-	-	1111	3	144	-	14
	STAGE 1B	292+00	-	332+00	-	-	-	-	-	-	-	-	-	-
		332+00	-	374+00	-	-	-	-	-	-	-	-	-	-
		374+00	-	410+00	-	-	-	-	-	-	-	-	-	-
		410+00	-	447+42	-	-	-	-	-	-	-	-	-	-
	TOTAL				-	-	-	-	-	-	-	-	-	-
	STAGE 2A	292+00	-	332+00	4681	-	-	-	-	4681	3	27	-	-
		332+00	-	374+00	1878	-	-	-	-	1878	3	27	-	1
		374+00	-	410+00	42	-	-	-	-	42	21	47	-	3
		410+00	-	447+42	62	-	-	-	-	62	-	22	-	6
		CONDUIT TRENCHING			129	-	-	-	-	-	-	-	-	-
		TEMPORARY SEEDING PROJECT			-	3280	-	-	-	-	-	-	-	-
		GS&F CURB RAMPS			-	-	-	-	-	-	-	-	-	-
	TOTAL				6792	3280	-	-	-	6663	27	123	-	10
	STAGE 2B	292+00	-	332+00	-	-	-	-	-	-	-	-	-	-
		332+00	-	374+00	-	-	-	-	-	-	-	-	-	-
		374+00	-	410+00	-	-	-	-	-	-	-	-	-	-
		410+00	-	447+42	-	-	-	-	-	-	-	-	-	-
		WASTE SITE			-	5550	-	-	-	-	-	-	-	-
	TOTAL				-	5550	-	-	-	-	-	-	-	-
		UNDISTRIBUTED			2914	820	49	12	6	1944	3	27	10	2
FINAL TOTAL					**14571**	**9649**	**244**	**12**	**6**	**9718**	**33**	**294**	**10**	**26**

*QUANTITIES SHOWN ELSEWHERE

SHEET 15 OF 24

3

EROSION CONTROL AND LANDSCAPING CONTINUED

CATEGORY	STAGE	STATION	TO	STATION	*629.0210 FERTILIZER TYPE B CWT	*630.0140 SEEDING MIXTURE NO 40 LB	630.0200 SEEDING TMPORARY LB	*630.0500 SEED WATER MGAL	*631.0300 SOD WATER MGAL	*631.1000 SOD LAWN SY	SPV.0060.04 DRAINAGE STRUCTURE CLEANING EACH
0010	STAGE 1A	292+00	-	332+00	0.01	-	-	-	3.6	159	-
		332+00	-	374+00	0.01	-	-	-	3.6	159	-
		374+00	-	410+00	0.09	-	-	-	27.5	1224	-
		410+00	-	447+42	0.10	-	-	-	33.6	1498	-
		CONDUIT TRENCHING			0.05	-	-	-	21.2	714	-
		GS&F CURB RAMPS			-	-	-	-	34.6	-	-
		CLEANING BOX CULVERT B40-409			0.70	20	15	25	-	-	-
	TOTAL				0.96	20	15	25	124.0	3754	-
	STAGE 1B	292+00	-	332+00	-	-	-	-	-	-	-
		332+00	-	374+00	-	-	-	-	-	-	-
		374+00	-	410+00	-	-	-	-	-	-	-
		410+00	-	447+42	-	-	-	-	-	-	-
	TOTAL				-	-	-	-	-	-	-
	STAGE 2A	292+00	-	332+00	2.95	84	72	104	-	-	-
		332+00	-	374+00	1.18	34	25	41	-	-	-
		374+00	-	410+00	0.03	1	1	-	-	-	-
		410+00	-	447+42	0.04	1	1	-	-	-	-
		CONDUIT TRENCHING			0.05	-	-	-	0.01	129	-
		TEMPORARY SEEDING PROJECT			2.07	-	73	73	-	-	-
		GS&F CURB RAMPS							2.0	-	-
	TOTAL				6.32	120	172	218	2.0	129	-
	STAGE 2B	292+00	-	332+00	-	-	-	-	-	-	-
		332+00	-	374+00	-	-	-	-	-	-	-
		374+00	-	410+00	-	-	-	-	-	-	-
		410+00	-	447+42	-	-	-	-	-	-	-
		WASTE SITE			3.5	100	75	125	-	-	-
	TOTAL				3.50	100	75	125	-	-	-
		UNDISTRIBUTED			1.82	35	47	61	31	971	210
FINAL TOTAL					**13**	**275**	**308**	**428**	**157**	**4854**	**210**

*QUANTITIES SHOWN ELSEWHERE

SHEET 16 OF 24

3

TRAFFIC CONTROL

CATEGORY	STAGE	STATION TO STATION	*305.0120 BASE AGGREAGATE DENSE 1-1/4-INCH TON	643.0300 TRAFFIC CONTRON DRUMS DAY	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAY	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAY	643.0800 TRAFFIC CONTROL ARROW BOARDS DAY	643.0900 TRAFFIC CONTROL SIGNS DAY	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II EACH	643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE EACH	643.1070 TRAFFIC CONTROL CONES 43-INCH DAY	643.4100.S TRAFFIC CONTROL INTERIM LANE CLOSURE EACH	644.1410 TEMPORARY PEDESTRIAN SURFACE ASPHALT SF	644.1420 TEMPORARY PEDESTRIAN SURFACE PLYWOOD SF	644.1601 TEMPORARY PEDESTRIAN CURB RAMP DAY	644.1810 TEMPORARY PEDESTRIAN BARRICADE LF
0010	STAGE 1A	272+00 - 332+00	25	28358	5834	7576	1870	66	7844	-	-	21318	-	1027	576	288	2141
		332+00 - 374+00	31	16808	4748	7120	1056	-	6474	-	-	22176	-	1245	672	400	3821
		374+00 - 410+00	20	18810	4214	6140	1782	-	5780	-	-	19008	-	803	608	336	2418
		410+00 - 462+00	20	18854	4116	5856	1518	-	5830	-	-	23034	-	820	576	320	2338
		UNDISTRIBUTED	-	-	-	-	-	-	-	5	-		-		-		
	TOTAL		96	82830	18912	26692	6226	66	25928	5	0	85536	0	3895	2432	1344	10718
		272+00 - 332+00	-	8225	4686	5280	858	66	4752	-	-	-	-	-	288	-	-
		332+00 - 374+00	-	4060	3498	4620	-	-	2376	-	-	-	-	-	336	-	-
	STAGE 1B	374+00 - 410+00	-	3360	2574	3036	-	-	2112	-	-	-	-	-	288	-	-
		410+00 - 462+00	-	4130	3168	3960	-	66	2904	-	-	-	-	-	288	-	-
		UNDISTRIBUTED	-	-	-	-	-	-	-	-	-	-	132	-	-	-	-
	TOTAL		0	19775	13926	16896	858	132	12144	0	0	0	132	0	1200	0	0
		374+00 - 410+00	-	1195	358	590	162	-	586	-	72	-	-	-	-	-	-
	STAGE 1C	410+00 - 462+00	-	326	149	207	40	-	160	-	36	-	-	-	-	-	-
		UNDISTRIBUTED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	TOTAL		0	1521	507	797	202	0	746	0	108	0	0	0	0	0	0
		272+00 - 332+00	-	10360	1288	2128	741	56	2912	-	-	18704	-	-	-	-	237
		332+00 - 374+00	-	7504	672	1344	-	-	2296	-	-	16856	-	-	-	-	463
	STAGE 2A	374+00 - 410+00	-	6720	448	896	-	-	1680	-	-	15512	-	-	-	-	1128
		410+00 - 462+00	-	16632	1960	3248	741	56	2968	-	-	13160	-	-	-	-	608
		UNDISTRIBUTED	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-
	TOTAL		0	41216	4368	7616	1482	112	9856	5	0	64232	0	0	0	0	2436
		272+00 - 332+00	-	14560	3752	6048	2016	56	3584	-	-	-	-	-	-	-	-
		332+00 - 374+00	-	6216	2576	4312	896	-	2408	-	-	-	-	-	-	-	-
	STAGE 2B	374+00 - 410+00	-	11816	3864	5880	1736	-	4088	-	-	-	-	-	-	-	-
		410+00 - 462+00	-	5320	3136	5264	896	-	2240	-	-	-	-	-	-	-	-
		UNDISTRIBUTED	-	-	-	-	-	-	-	-	-	-	112	-	-	-	-
	TOTAL		0	37912	13328	21504	5544	56	12320	0	0	0	112	0	0	0	0
		374+00 - 410+00	-	561	260	596	185	-	334	-	-	-	-	-	-	-	-
	STAGE 2C	410+00 - 462+00	-	326	140	333	110	-	174	-	-	-	-	-	-	-	-
		UNDISTRIBUTED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL			0	887	400	929	295	0	508	0	0	0	0	0	0	0	0

*QUANTITIES SHOWN ELSEWHERE

SHEET 17 OF 24

3

TRAFFIC CONTROL CONTINUED

CATEGORY	STAGE	STATION	TO	STATION	*305.0120 BASE AGGREAGATE DENSE 1-1/4-INCH TON	643.0300 TRAFFIC CONTRON DRUMS DAY	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAY	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAY	643.0800 TRAFFIC CONTROL ARROW BOARDS DAY	643.0900 TRAFFIC CONTROL SIGNS DAY	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II EACH	643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE EACH	643.1070 TRAFFIC CONTROL CONES 42-INCH DAY	643.4100.S TRAFFIC CONTROL INTERIM LANE CLOSURE EACH	644.1410 TEMPORARY PEDETRIAN SURFACE ASPHALT SF	644.1420 TEMPORARY PEDESTRIAN SURFACE PLYWOOD SF	644.1601 TEMPORARY PEDESTRIAN CURB RAMP DAY	644.1810 TEMPORARY PEDESTRIAN BARRICADE LF
0010	STAGE 3A	272+00	-	332+00	-	9485	2485	2800	455	35	2905	-	-	11305	-	-	-	-	-
		332+00	-	374+00	-	6125	1855	2450	-	-	2310	-	-	11760	-	-	-	-	-
		374+00	-	410+00	-	4480	1365	1610	-	-	1505	-	-	10080	-	-	-	-	-
		410+00	-	462+00	-	8225	1680	2100	455	-	2345	-	-	12215	-	-	-	-	-
		UNDISTRIBUTED			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	TOTAL				0	28315	7385	8960	910	35	9065	0	0	45360	0	0	0	0	0
	STAGE 3B	272+00	-	332+00	-	8225	2485	2800	455	35	2520	-	-	-	-	-	-	-	-
		332+00	-	374+00	-	4060	1855	2450	0	-	1260	-	-	-	-	-	-	-	-
		374+00	-	410+00	-	3360	1365	1610	0	-	1120	-	-	-	-	-	-	-	-
		410+00	-	462+00	-	4130	1680	2100	0	35	1540	-	-	-	-	-	-	-	-
		UNDISTRIBUTED			-	-	-	-	-	-	-	-	-	-	70	-	-	-	-
	TOTAL				0	19775	7385	8960	455	70	6440	0	0	0	70	0	0	0	0
	STAGE 4A	272+00	-	332+00	-	10545	1311	2166	741	57	2964	-	-	19038	-	-	-	-	-
		332+00	-	374+00	-	7638	684	1368	0	-	2337	-	-	17157	-	-	-	-	-
		374+00	-	410+00	-	6840	456	912	0	-	1710	-	-	15789	-	-	-	-	-
		410+00	-	462+00	-	16929	1539	2394	741	57	3021	-	-	13395	-	-	-	-	-
		UNDISTRIBUTED			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	TOTAL				0	41952	3990	6840	1482	114	10032	0	0	65379	0	0	0	0	0
	STAGE 4B	272+00	-	332+00	-	7674	1425	1394	741	56	741	-	-	-	-	-	-	-	-
		332+00	-	374+00	-	0	684	1368	0	-	0	-	-	-	-	-	-	-	-
		374+00	-	410+00	-	0	456	912	0	-	0	-	-	-	-	-	-	-	-
		410+00	-	462+00	-	4731	1824	2964	342	-	1140	-	-	-	-	-	-	-	-
		UNDISTRIBUTED			-	-	-	-	-	-	-	-	-	-	114	-	-	-	-
	TOTAL				0	12405	4389	6638	1083	56	1881	0	0	0	114	0	0	0	0
FINAL TOTALS					**96**	**286588**	**74590**	**105832**	**18537**	**641**	**88920**	**10**	**108**	**260507**	**428**	**3895**	**3632**	**1344**	**13154**

*QUANTITIES SHOWN ELSEWHERE

SHEET 18 OF 24

TRAFFIC CONTROL MARKING

CATEGORY	STAGE	STATION	TO	STATION	646.9000 MARKING REMOVAL LINE 4-INCH LF	649.0105 TEMPORARY MARKING LINE 4-INCH (WHITE) LF	649.0105 TEMPORARY MARKING LINE 4-INCH (YELLOW) LF	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE) LF	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW) LF
0010	STAGE 1A	272+00	-	332+00	82	325	-	1591	-
		332+00	-	374+00	-	-	-	1318	-
		374+00	-	410+00	-	-	-	1288	-
		410+00	-	462+00	-	-	-	1499	-
		UNDISTRIBUTED			-	-	-		-
	TOTAL				82	325	0	5696	0
	STAGE 1B	272+00	-	332+00	-	-	-	-	-
		332+00	-	374+00	-	-	-	-	-
		374+00	-	410+00	-	-	-	-	-
		410+00	-	462+00	-	-	-	-	-
		UNDISTRIBUTED			-	-	-	-	-
	TOTAL				0	0	0	0	0
	STAGE 1C	374+00	-	410+00	-	-	-	688	688
		410+00	-	462+00	-	-	-	-	-
		UNDISTRIBUTED			-	-	-	-	-
	TOTAL				0	0	0	688	688
	STAGE 2A	272+00	-	332+00	82	-	325	228	-
		332+00	-	374+00	82	-	-	473	-
		374+00	-	410+00	-	-	-	720	-
		410+00	-	462+00	-	-	-	420	-
		UNDISTRIBUTED			-	-	325	-	-
	TOTAL				164	0	650	1841	0
	STAGE 2B	272+00	-	332+00	-	-	-	-	-
		332+00	-	374+00	-	-	-	-	-
		374+00	-	410+00	-	-	-	-	-
		410+00	-	462+00	-	-	-	-	-
		UNDISTRIBUTED			-	-	-	-	-
	TOTAL				0	0	0	0	0
	STAGE 2C	374+00	-	410+00	-	-	-	-	-
		410+00	-	462+00	-	-	-	-	-
		UNDISTRIBUTED			-	-	-	-	-
TOTAL					0	0	0	0	0

TRAFFIC CONTROL MARKING CONTINUED

CATEGORY	STAGE	STATION	TO	STATION	646.9000 MARKING REMOVAL LINE 4-INCH LF	649.0105 TEMPORARY MARKING LINE 4-INCH (WHITE) LF	649.0105 TEMPORARY MARKING LINE 4-INCH (YELLOW) LF	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE) LF	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW) LF
0010	STAGE 3A	272+00	-	332+00	-	-	-	-	-
		332+00	-	374+00	-	-	-	-	-
		374+00	-	410+00	-	-	-	-	-
		410+00	-	462+00	-	-	-	-	-
		UNDISTRIBUTED			-	-	-	-	-
	TOTAL				0	0	0	0	0
	STAGE 3B	272+00	-	332+00	-	-	-	-	-
		332+00	-	374+00	-	-	-	-	-
		374+00	-	410+00	-	-	-	-	-
		410+00	-	462+00	-	-	-	-	-
		UNDISTRIBUTED			-	-	-	-	-
	TOTAL				0	0	0	0	0
	STAGE 4A	272+00	-	332+00	-	-	-	-	-
		332+00	-	374+00	-	-	-	-	-
		374+00	-	410+00	-	-	-	-	-
		410+00	-	462+00	-	-	-	-	-
		UNDISTRIBUTED			-	-	-	-	-
	TOTAL				0	0	0	0	0
	STAGE 4B	272+00	-	332+00	-	-	-	-	-
		332+00	-	374+00	-	-	-	-	-
		374+00	-	410+00	-	-	-	-	-
		410+00	-	462+00	-	-	-	-	-
		UNDISTRIBUTED			-	-	-	-	-
	TOTAL				0	0	0	0	0
FINAL TOTALS					**246**	**325**	**650**	**8225**	**688**

3

SHEET 19 OF 24

3

TRAFFIC CONTROL PCMS

CATEGORY	STAGE	LOCATION	643.1050 TRAFFIC CONTROL SIGNS PCMS DAY
0010	STAGE 1C	STH 100 & 51ST STREET	120
		STH 100 & 60TH STREET	120
FINAL TOTAL			240

TRAFFIC CONTROL PROJECT

CATEGORY	LOCATION	643.5000 TRAFFIC CONTROL EACH
0010	2150-00-71	1
FINAL TOTAL		1

PAVEMENT MARKING

CATEGORY	STATION	TO	STATION	646.1020 MARKING LINE EPOXY 4-INCH (WHITE) LF	646.1020 MARKING LINE EPOXY 4-INCH (YELLOW) LF	646.1020 MARKING LINE EPOXY 4" 3' LINE W/ 9' GAP (YELLOW) LF	646.1545 MARKING LINE GROOVED WET REF. CONTRAST EPOXY 4" 12.5' LINE W/ 37.5' GAP (WHITE) LF	646.3545 MARKING LINE GROOVED WET REF. CONTRAST EPOXY 8" 3' LINE W/ 9' GAP (WHITE) LF	646.3545 MARKING LINE GROOVED WET REF. CONTRAST EPOXY 8" 2' LINE W/ 6' GAP (WHITE) LF	646.3545 MARKING LINE GROOVED WET REF. CONTRAST EPOXY 8" (WHITE) LF	646.5020 MARKING ARROW EPOXY EA	646.5120 MARKING WORD EPOXY EA
0010	292+00	-	332+00	9432	7177	-	2575	129	22	2854	14	6
0010	332+00	-	374+00	7414	7222	18	2375	65	76	4416	26	13
0010	374+00	-	410+00	5128	7647	-	5300	167	36	3717	28	16
0010	410+00	-	447+42	6931	6436	-	4100	76	-	2744	12	4
FINAL TOTAL				**28905**	**28482**	**18**	**14350**	**437**	**134**	**13731**	**80**	**39**

PAVEMENT MARKING CONTINUED

CATEGORY	STATION	TO	STATION	646.5320 MARKING RAILROAD CROSSING EPOXY EA	646.6120 MARKING STOP LINE EPOXY 18-INCH (WHITE) LF	646.6220 MARKING YIELD LINE EPOXY 18-INCH EA	646.7120 MARKING DIAGONAL EPOXY 12-INCH (WHITE) LF	646.7120 MARKING DIAGONAL EPOXY 12-INCH (YELLOW) LF	646.7420 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE) LF	646.7520 MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH LF	646.8120 MARKING CURB EPOXY (YELLOW) LF	646.8220 MARKING ISLAND NOSE EPOXY (YELLOW) EA
0010	292+00	-	332+00	-	419	-	382	-	1465	-	760	12
0010	332+00	-	374+00	-	528	8	369	43	1584	-	713	14
0010	374+00	-	410+00	-	527	-	328	-	1858	-	278	8
0010	410+00	-	447+42	3	353	-	86	-	629	-	952	14
FINAL TOTAL				**3**	**1827**	**8**	**1165**	**43**	**5536**	**0**	**2703**	**48**
0030	374+00	-	410+00	-	-	-	-	-	-	444	-	-
0030	410+00	-	447+42	-	-	-	-	-	676	444	-	-
FINAL TOTAL				**0**	**0**	**0**	**0**	**0**	**676**	**888**	**0**	**0**

3

CONSTRUCTION STAKING

CATEGORY	STAGE	STATION	TO	STATION	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.5000 CONSTRUCTION STAKING BASE LF	650.5500 CONSTRUCTION STAKING CURB AND GUTTER LF	650.6000 CONSTRUCTION STAKING PIPE CULVERT EACH	650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE LF	650.9000 CONSTRUCTION STAKING CURB RAMPS EACH	650.9910.01 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL 2150-00-71 LS	SPV.0165.01 CONSTRUCTION STAKING SIDEWALK SF
		292+00	-	332+00	-	-	-	0	-	4000	26	-	-
0010	STAGE 1A	332+00	-	374+00	-	-	-	0	-	4200	44	-	781
		374+00	-	410+00	-	-	-	670	1	3600	29	-	10372
		410+00	-	447+42	-	-	-	239	-	3742	32	-	2209
	TOTAL				0	0	0	909	1	15542	131	0	13362
	STAGE 2A	292+00	-	332+00	-	391	391	1645	-	-	7	-	-
		332+00	-	374+00	-	1227	1227	1249	-	-	12	-	-
		374+00	-	410+00	-	2298	2298	3522	-	-	11	-	-
		410+00	-	447+42	-	-	-	0	-	-	10	-	-
	TOTAL				0	3916	3916	6416	0	0	40	0	0
		UNDISTRIBUTED			30	-	-	-	-	-	-	1	-
	FINAL TOTAL				**30**	**3916**	**3916**	**7325**	**1**	**15542**	**171**	**1**	**13362**

3

CLEANING BOX CULVERT

CATEGORY	LOCATION	SPV.0060.01 CLEANING BOX CULVERT EACH	SPV.0105.01 MAINTANING TEMPORARY DRAINAGE LS
0010	B-40-409	1	1
FINAL TOTAL		1	1

MAINTAINING TEMPORARY DRAINAGE

FOR INFORMATION ONLY - ESTIMATED QUANTITIES

STAGE	LOCATION	SAND BAGS EACH	POLYETHYLENE SHEETING SY
STAGE 1	NORTH SIDE	180	25
	SOUTH SIDE	180	25
TOTAL		360	50
STAGE 2	NORTH SIDE	360	50
	SOUTH SIDE	360	50
TOTAL		720	100
STAGE 3	NORTH SIDE	180	25
	SOUTH SIDE	180	25
TOTAL		360	50
FINAL TOTALS		1440	200

CURB RAMP GRADING, SHAPING, AND FINISHING

CATEGORY	STAGE	STATION	TO	STATION	SPV.0060.02 CURB RAMP GRADING, SHAPING , AND FINISHING EACH
0010	STAGE 1A	292+00	-	332+00	26
		332+00	-	374+00	44
		374+00	-	410+00	21
		410+00	-	446+99	30
	TOTAL				121
	STAGE 2A	292+00	-	332+00	3
		332+00	-	374+00	8
		374+00	-	410+00	7
		410+00	-	446+99	5
	TOTAL				23
	FINAL TOTALS				144

CURB RAMP GRADING, SHAPING, AND FINISHING

FOR INFORMATION ONLY

	STATION	TO	STATION	205.0100 EXCAVATION COMMON CY	305.0120 BASE AGGREGATE DENSE 1 1/4 INCH TON	625.0100 (625.0500) TOPSOIL (OR SALVAGED TOPSOIL) SY	629.0210 FERTILIZER TYPE B CWT	631.1000 SOD LAWN SY
STAGE 1A	292+00	-	332+00	33	66	230	0.016	230
	332+00	-	374+00	65	130	530	0.037	530
	374+00	-	410+00	39	78	328	0.023	328
	410+00	-	446+99	53	106	451	0.032	451
TOTAL				190	380	1539	0.108	1539
STAGE 2A	292+00	-	332+00	1	3	6	0	6
	332+00	-	374+00	6	12	42	0.003	42
	374+00	-	410+00	3	6	13	0.001	13
	410+00	-	446+99	3	6	26	0.002	26
TOTAL				13	27	87	0.006	87
FINAL TOTALS				203	407	1626	0.114	1626

SHEET 23 OF 24

SECTION CORNER MONUMENTS

CATEGORY	STAGE	STATION	OFFSET	SPV.0060.05 SECTION CORNER MONUMENTS EACH
0010	STAGE 2A	349+94.30	0'	1
		402+88.30	5' RT	1
		429+61.30	5' RT	1
FINAL TOTAL				**3**

UTILITY LINE OPENING

CATEGORY		STATION	TO	STATION	SPV.0060.34 UTILITY LINE OPENING EACH
0010	STAGE 1A	292+00	-	332+00	4
		332+00	-	374+00	5
		374+00	-	410+00	11
		410+00	-	446+99	-
	TOTAL				20
	STAGE 1B	292+50	-	332+00	-
		332+00	-	374+00	-
		374+00	-	410+00	-
		410+00	-	446+99	-
	TOTAL				-
	STAGE 2A	292+00	-	332+00	2
		332+00	-	374+00	2
		374+00	-	410+00	7
		410+00	-	446+99	-
	TOTAL				11
	STAGE 2B	292+00	-	332+00	-
		332+00	-	374+00	-
		374+00	-	410+00	-
		410+00	-	446+99	-
	TOTAL				-
FINAL TOTALS					31

3

SHEET 24 OF 24

3

CITY OF MILWAUKEE WATER BOXES

CATEGORY	STATION	OFFSET	*465.0125 ASPHALTIC SURFACE TEMPORARY TON	*690.0150 SAWING CONCRETE LF	SPV.0060.07 ADJUSTING CITY OF MILWAUKEE WATER BOXES EACH	FOR INFORMATION ONLY 204.0100 REMOVING CONCRETE PAVEMENT SY
	296+18	72' RT	-	-	1	-
	296+20	71' LT	-	-	1	-
0040	296+89	72' LT	0.2	6	1	0.25
	296+93	75' RT	0.2	6	1	0.25
	296+97	68' LT	0.2	6	1	0.25
	296+97	75' LT	0.2	6	1	0.25
	297+25	75' LT	-	-	1	-
	297+27	71' LT	-	-	1	-
	297+28	72' RT	-	-	1	-
	319+20	71' LT	-	-	1	-
	319+40	78' LT	0.2	6	1	0.25
	319+42	75' LT	0.2	6	1	0.25
	320+02	68' LT	-	-	1	-
	331+16	72' LT	0.2	6	1	0.25
	331+20	75' LT	0.2	6	-	0.25
	337+16	72' RT	0.2	6	1	0.25
	337+78	74' RT	0.2	6	1	0.25
	337+83	77' RT	0.2	6	-	0.25
	354+64	71' RT	-	-	1	-
	355+12	77' RT	0.2	6	-	0.25
	355+31	71' RT	-	-	-	-
	362+73	71' RT	-	-	1	-
	363+45	71' RT	-	-	1	-
	363+47	68' RT	-	-	1	-
	368+42	75' LT	0.2	6	1	0.25
	376+10	71' RT	0.2	6	1	0.25
	376+17	76' RT	0.2	6	1	0.25
FINAL TOTAL			**3**	**90**	**23**	**4**

* QUANTITIES SHOWN ELSEWHERE

SHEET 1 OF 1

3

CITY OF MILWAUKEE SANITARY MANHOLE COVERS

CATEGORY	STATION	OFFSET	*320.0170 CONCRETE BASE 10 1/2-INCH SY	*416.0610 DRILLED TIE BARS EACH	*465.0125 ASPHALTIC SURFACE TEMPORARY TON	*611.8120.S COVER PLATES TEMPORARY EACH	*690.0150 SAWING CONCRETE LF	SPV.0060.10 ADJUSTING CITY OF MILWAUKEE SANITARY MANHOLE COVERS EACH	SPV.0060.12 CITY OF MILWAUKEE INTERNAL SANITARY MANHOLE SEALS EACH	*SPV.0090.01 CONCRETE CURB AND GUTTER 31-INCH SPECIAL LF	FOR INFORMATION ONLY 204.0100 REMOVING CONCRETE PAVEMENT SY
	296+36	62' RT	2.8	4	2	1	20	1	1	-	2.8
	297+11	62' LT	2.8	4	2	1	20	1	1	-	2.8
0060	319+63	62' LT	2.8	4	2	1	20	1	1	-	2.8
	331+12	63' LT	2.8	4	2	1	20	1	1	-	2.8
	337+21	63' RT	2.8	4	2	1	20	1	1	-	2.8
	337+39	84' RT	2.8	4	2	1	20	1	1	-	2.8
	337+68	88' RT	2.8	-	2	1	-	1	1	-	-
	337+85	64' LT	2.8	-	2	1	-	1	1	-	-
	349+63	51' RT	2.8	4	2	1	20	1	1	-	2.8
	349+63	19' RT	2.8	4	2	1	20	1	1	-	2.8
	350+06	50' RT	2.8	4	2	1	20	1	1	-	2.8
	355+91	16' LT	2.8	4	2	1	20	1	1	-	2.8
	360+50	16' LT	2.8	4	2	1	20	1	1	6	2.8
	365+95	16' LT	2.8	4	2	1	20	1	1	6	2.8
	366+37	50' RT	2.8	4	2	1	20	1	1	-	2.8
	369+18	54' LT	2.8	4	2	1	20	1	1	-	2.8
	369+82	50' RT	2.8	4	2	1	20	1	1	-	2.8
	370+46	16' LT	2.8	4	2	1	20	1	1	6	2.8
	372+45	50' RT	2.8	4	2	1	20	1	1	-	2.8
	375+99	50' RT	2.8	4	2	1	20	1	1	-	2.8
	376+00	15' LT	2.8	4	2	1	20	1	1	-	2.8
FINAL TOTAL			**58**	**76**	**41**	**21**	**380**	**21**	**21**	**18**	**53**

*QUANTITIES SHOWN ELSEWHERE

SHEET 1 OF 1

3

CUC MANHOLE COVERS

CATEGORY	STATION	OFFSET	*320.0170 CONCRETE BASE 10 1/2-INCH SY	*416.0610 DRILLED TIE BARS EACH	*465.0125 ASPHALTIC SURFACE TEMPORARY TON	*611.8120.S COVER PLATES TEMPORARY EACH	*690.0150 SAWING CONCRETE LF	**SPV.0060.06 ADJUSTING CUC MANHOLE COVERS EACH	FOR INFORMATION ONLY 204.0100 REMOVING CONCRETE PAVEMENT SY
0070	297+02	22' LT	2.8	4	2	1	20	1	2.8
	314+32	22' LT	2.8	4	2	1	20	1	2.8
	319+18	22' LT	2.8	4	2	1	20	1	2.8
	322+62	21' LT	2.8	4	2	1	20	1	2.8
	325+77	23' LT	2.8	4	2	1	20	1	2.8
	326+73	21' LT	2.8	4	2	1	20	1	2.8
	330+84	22' LT	2.8	4	2	1	20	1	2.8
	332+39	26' LT	2.8	4	2	1	20	1	2.8
	334+95	21' LT	2.8	4	2	1	20	1	2.8
	338+98	26' LT	2.8	4	2	1	20	1	2.8
	339+07	21' LT	2.8	4	2	1	20	1	2.8
	343+06	21' LT	2.8	4	2	1	20	1	2.8
	344+94	27' LT	2.8	4	2	1	20	1	2.8
	349+26	25' LT	2.8	4	2	1	20	1	2.8
	350+47	21' LT	2.8	4	2	1	20	1	2.8
	355+35	22' LT	2.8	4	2	1	20	1	2.8
	359+45	22' LT	2.8	4	2	1	20	1	2.8
	363+58	22' LT	2.8	4	2	1	20	1	2.8
FINAL TOTAL			**50**	**72**	**35**	**18**	**360**	**18**	**50**

*QUANTITIES SHOWN ELSEWHERE

**COVERS AND FRAMES TO BE SUPPLIED BY CITY

SHEET 1 OF 1

3

VILLAGE OF BROWN DEER WATER BOXES

CATEGORY	STATION	OFFSET	*305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	*465.0125 ASPHALTIC SURFACE TEMPORARY TON	*690.0150 SAWING CONCRETE LF	SPV.0060.08 ADJUSTING VILLAGE OF BROWN DEER WATER BOXES EACH	SPV.0060.09 REPAIRING VILLAGE OF BROWN DEER WATER BOXES EACH	FOR INFORMATION ONLY 204.0100 REMOVING CONCRETE PAVEMENT SY
0080	376+59	67' RT	-	0.2	6	1	-	0.25
	383+09	85' LT	-	-	-	1	-	-
	383+10	63' RT	-	-	-	1	-	-
	383+32	64' RT	-	-	-	1	-	-
	383+71	65' LT	-	-	-	1	-	-
	383+72	86' LT	-	-	-	1	-	-
	383+81	62' LT	-	-	-	1	-	-
	389+73	61' RT	-	0.2	6	1	-	0.25
	389+75	36' LT	-	0.2	6	1	-	0.25
	393+08	78' LT	-	0.2	6	1	-	0.25
	396+47	78' LT	-	-	-	1	-	-
	402+30	60' LT	-	-	-	1	-	-
	403+35	37' LT	-	-	-	1	-	-
	408+52	39' LT	0.15	0.31	8.00	-	1	0.44
	408+57	37' LT	-	0.2	6	1	-	0.25
	412+96	39' LT	-	0.2	6	1	-	0.25
	413+01	37' LT	0.15	0.3	8	-	1	0.44
	414+59	93' RT	-	0.2	6	1	-	0.25
	416+68	41' LT	0.15	0.3	8	-	1	0.44
	418+45	65' LT	0.15	0.3	8	-	1	0.44
	418+50	63' LT	-	0.2	6	1	-	0.25
	421+60	66' LT	-	0.2	6	1	-	0.25
	422+65	66' LT	-	-	-	1	-	-
	422+70	64' LT	-	-	-	1	-	-
	424+11	64' LT	-	0.18	6.00	1	-	0.25
TOTAL			0.6	3	92	21	4	4

*QUANTITIES SHOWN ELSEWHERE

SHEET 1 OF 2

3

VILLAGE OF BROWN DEER WATER BOXES CONTINUED

CATEGORY	STATION	OFFSET	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	465.0125 ASPHALTIC SURFACE TEMPORARY TON	690.0150 SAWING CONCRETE LF	SPV.0060.08 ADJUSTING VILLAGE OF BROWN DEER WATER BOXES EACH	SPV.0060.09 REPAIRING VILLAGE OF BROWN DEER WATER BOXES EACH	FOR INFORMATION ONLY 204.0100 REMOVING CONCRETE PAVEMENT SY
	425+95	54' LT	-	0.2	6	1	-	0.25
	425+95	85' RT	-			1	-	
0080	426+12	67' LT	-	0.2	6	1	-	0.25
	428+90	65' LT	-	0.2	6	1	-	0.25
	429+18	47' LT	-	-	-	1	-	-
	429+70	86' LT	-	-	-	1	-	-
	430+07	64' LT	-	-	-	1	-	-
	430+12	66' LT	-	-	-	1	-	-
	434+33	39' LT	0.15	0.31	8.00	-	1	0.44
	434+38	40' LT	-	0.2	6	1	-	0.25
	436+77	36' LT	-	0.2	6	1	-	0.25
	437+88	61' LT	-	0.2	6	1	-	0.25
	439+44	38' LT	0.15	0.3	8	-	1	0.44
	439+50	39' LT	-	0.2	6	1	-	0.25
	440+94	63' RT	-	-	-	1	-	-
	441+30	30' LT	-	0.18	6.00	1	-	0.25
	441+47	23' LT	-	0.2	6	1	-	0.25
	441+58	24' LT	-	0.2	6	1	-	0.25
	445+04	13' RT	-	0.2	6	1	-	0.25
	445+10	12' RT	-	-	-	1	-	-
	TOTAL		0.3	3	82	18	2	4
FINAL TOTAL			**1**	**6**	**174**	**39**	**6**	**8**

*QUANTITIES SHOWN ELSEWHERE

SHEET 2 OF 2

3

VILLAGE OF BROWN DEER SANITARY MANHOLES

CATEGORY	STATION	OFFSET	*320.0170 CONCRETE BASE 10 1/2-INCH SY	*416.0610 DRILLED TIE BARS EACH	*465.0125 ASPHALTIC SURFACE TEMPORARY TON	*611.8120.S COVER PLATES TEMPORARY EACH	*690.0150 SAWING CONCRETE LF	SPV.0060.11 ADJUSTING VILLAGE OF BROWN DEER SANITARY MANHOLE COVERS EACH	SPV.0060.13 VILLAGE OF BROWN DEER EXTERNAL SANITARY MANHOLE SEALS EACH	FOR INFORMATION ONLY 204.0100 REMOVING CONCRETE PAVEMENT SY
	376+38	50' RT	2.8	4	2	1	20	1	1	2.8
	376+51	16' LT	2.8	4	2	1	20	1	1	2.8
0090	376+71	15' LT	2.8	4	2	1	20	1	1	2.8
	376+74	50' RT	2.8	4	2	1	20	1	1	2.8
	383+02	67' LT	-	-	-	-	-	1	1	-
	383+02	75' RT	-	-	-	-	-	1	1	-
	389+61	69' LT	2.8	-	2	1	-	1	1	-
	389+65	75' RT	2.8	-	2	1	-	1	1	-
	392+89	12' LT	-	-	-	-	-	1	1	-
	402+73	11' LT	-	-	-	-	-	1	1	-
	429+57	83' RT	-	-	-	-	-	1	1	-
	429+57	17' LT	-	-	-	-	-	1	1	-
	429+58	34' RT	-	-	-	-	-	1	1	-
	433+35	35' RT	2.8	4	2	1	20	1	1	2.8
	437+09	35' RT	2.8	4	2	1	20	1	1	2.8
	440+46	37' RT	2.8	4	2	1	20	1	1	2.8
	441+21	40' RT	-	-	2	1	-	1	1	-
	441+43	13' LT	2.8	4	2	1	20	1	1	2.8
	446+62	50' RT	2.8	4	2	1	20	1	1	2.8
FINAL TOTAL			**31**	**36**	**24**	**12**	**180**	**19**	**19**	**25**

*QUANTITIES SHOWN ELSEWHERE

SHEET 1 OF 1

3

BIOSWALE CONCRETE ITEMS

CATEGORY	LOCATION	*204.0150 REMOVING CURB AND GUTTER LF	*416.0610 DRILLED TIE BARS EACH	*690.0250 SAWING CONCRETE LF	*SPV.0090.01 CONCRETE CURB AND GUTTER 31-INCH SPECIAL LF	REMARKS
0020	BIO-SWALE NO. 1	10	5	15	10	
0020	BIO-SWALE NO. 2	10	5	15	10	
	TOTAL	20	10	30	20	

*QUANTITIES SHOWN ELSEWHERE

BIOSWALE DRAINAGE ITEMS

CATEGORY	LOCATION	612.0106 PIPE UNDERDRAIN 6-INCH LF	612.0208 PIPE UNDERDRAIN UNPERFORATED 8-INCH LF	SPV.0060.29 6-INCH CLEANOUT EACH	SPV.0060.30 8-INCH OVERFLOW STANDPIPE WITH DOME GRATE EACH	SPV.0060.31 INLET FRAME WITH GRATE EACH	REMARKS
0020	BIO-SWALE NO. 1	30	12	1	1	1	
0020	BIO-SWALE NO. 2	40	15	1	1	1	
	TOTAL	70	27	2	2	2	

3

EXCAVATION COMMON

LOCATION	*205.0100 EXCAVATION COMMON CY
BIO-SWALE NO. 1	75
BIO-SWALE NO. 2	47
TOTAL	122

*QUANTITIES SHOWN ELSEWHERE

INFORMATIONAL SIGN POST

LOCATION	SPV.0060.33 INFORMATIONAL SIGN POST EACH	REMARKS
BIO-SWALE NO. 1	1	
BIO-SWALE NO. 2	1	
TOTAL	2	

3

BIOSWALE LANDSCAPE PLANTING SURVEILLANCE AND CARE CYCLES

CATEGORY	LOCATION	632.9101 LANDSCAPE PLANTING SURVEILLANCE AND CARE CYCLES EACH	REMARKS
0020	BIO-SWALE NO. 1 & 2	10	ONE YEAR CARE
	TOTAL	10	

CONNECT 8-INCH PIPE UNDERDRAIN TO EXISTING INLET

CATEGORY	LOCATION	SPV.0060.32 CONNECT 8-INCH PIPE UNDERDRAIN TO EXISTING INLET EACH	REMARKS
0020	BIO-SWALE NO. 1	1	
0020	BIO-SWALE NO. 2	1	
	TOTAL	2	

BIOSWALE FINISHING ITEMS

LOCATION	*625.0100 TOPSOIL SY	*628.2008 EROSION MAT URBAN CLASS I TYPE B SY	*629.021 FERTILIZER TYPE B CWT	*630.0140 SEEDING MIXTURE NO. 40 LB	*630.0500 SEED WATER MGAL	REMARKS
BIO-SWALE NO. 1	8	8	0.01	0.2	0.2	
BIO-SWALE NO. 2	9	9	0.01	0.2	0.2	
TOTAL	17	17	0.02	0.4	0.4	

*QUANTITIES SHOWN ELSEWHERE

3

BIOSWALE BACKFILL ITEMS

CATEGORY	LOCATION	645.0112 GEOTEXTILE TYPE DF SCHEDULE B SY	SPV.0035.02 ENGINEERED SOIL CY	SPV.0035.03 BEDDING LAYER CY	SPV.0035.04 STORAGE LAYER CY	SPV.0035.05 COBBLESTONES CY	REMARKS
0020	BIO-SWALE NO. 1	5	22	4	9	5	
0020	BIO-SWALE NO. 2	4	15	4	6	4	
	TOTAL	9	37	8	15	9	

BIOSWALE PLANTINGS

CATEGORY	LOCATION	* SPV.0060.24 PERENNIAL BLACK-EYED SUSAN 1 GAL CG EACH	+ SPV.0060.25 DIABLO NINEBARK (SUMMER WINE) 3 GAL CG EACH	* SPV.0060.26 PERENNIAL DAYLILIES 1 GAL CG EACH	* SPV.0060.27 PERENNIAL PURPLE CONEFLOWER 1 GAL CG EACH	* SPV.0060.28 PANICUM GRASS 1 GAL CG EACH	REMARKS
0020	BIO-SWALE NO. 1	24	5	24	-	-	
0020	BIO-SWALE NO. 2	-	-	5	24	7	
	TOTAL	24	5	29	24	7	

NOTES: (1) MULCH INCIDENTAL TO PLANTINGS

(2)

PLANTING	CONTAINER SIZE	BALL/CG DIAMETER	DEPTH	ROOT SPREAD
*	1 GAL	9 INCHES	6 INCHES	24 INCHES
+	3 GAL	12 INCHES	9 INCHES	36 INCHES

SHEET 3 OF 3

REMOVING CONCRETE PAVEMENT

LOCATION	204.0100 REMOVING CONCRETE PAVEMENT SY
STH 100/N 66TH	2,351
STH 100/N 60TH	2,020
STH 100/N 51ST	1,906
PROJECT TOTAL	6,277

BASE AGGREGATE

ROADWAY	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	REMARKS
STH 100/N 68TH	20	SIDEWALK
STH 100/N 66TH	163	SIDEWALK
STH 100/N 66TH	824	CONCRETE PAVEMENT
STH 100/N 64TH	154	SIDEWALK
BETWEEN 64TH AND 60TH	33	SIDEWALK
STH 100/N 60TH	194	SIDEWALK
STH 100/N 60TH	709	CONCRETE PAVEMENT
STH 100/N 56TH	39	SIDEWALK
STH 100/N 51ST	243	SIDEWALK
STH 100/N 51ST	669	CONCRETE PAVEMENT
STH 100/ARBON DR	7	SIDEWALK
SUBTOTAL	3055	
UNDISTRIBUTED	306	
PROJECT TOTAL	3,361	

NOTE:
BASE AGGREGATE DENSE = 2 TON/CY
BREAKER RUN = 1.8 TON/CY

EXCAVATION COMMON

LOCATION	205.0100 EXCAVATION COMMON* CY
STH 100/N 66TH	1,176
STH 100/N 60TH	1,010
STH 100/N 51ST	953
PROJECT TOTAL	3,139

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ALL ITEMS CATEGORY 0030

S:\Milw_Co\Brown_Deer\Gov\180459 Brown Deer Streetscape\Design\2010-convert_MQ.ppt PLOT DATE : 11/30/2020 9:08:04 AM PLOT BY : JOHNATHAN D. OLSON PLOT NAME : _MQ1 PLOT SCALE : 1:1

3

COLORING CONCRETE CUSTOM

LOCATION	405.0200.01 COLORING CONCRETE CUSTOM.01 SCOFIELD RUST FIELDS CY	405.0200.02 COLORING CONCRETE CUSTOM.02 SCOFIELD SCHOONER BEIGE CY	405.0200.03 COLORING CONCRETE CUSTOM.03 SCOFIELD PLUM CHESTNUT CY
STH 100/N 68TH	--	--	8
STH 100/N 66TH	556	63	38
STH 100/N 64TH	--	61	--
BETWEEN 64TH AND 60TH	--	--	13
STH 100/N 60TH	464	78	56
STH 100/N 56TH	--	16	--
STH 100/N 51ST	428	96	50
STH 100/ARBON DR	--	3	--
PROJECT TOTAL	1,448	317	165

CONCRETE PAVEMENT

LOCATION	SPV.0180.01 CONCRETE PAVEMENT SHES 9-INCH SCOFIELD RUST FIELDS SY	SCOFIELD PLUM CHESTNUT SY
STH 100/N 66TH	2223	152
STH 100/N 60TH	1853	224
STH 100/N 51ST	1711	197
SUBTOTAL	5787	573
PROJECT TOTAL	6360	

CONCRETE SIDEWALK

LOCATION	602.0410 CONCRETE SIDEWALK 5-INCH SCOFIELD SCHOONER BEIGE SF	SCOFIELD PLUM CHESTNUT SF
STH 100/N 68TH	--	493
STH 100/N 66TH	4,033	--
STH 100/N 64TH	3,934	--
BETWEEN 64TH AND 60TH	--	791
STH 100/N 60TH	4,993	--
STH 100/N 56TH	978	--
STH 100/N 51ST	6,195	--
STH 100/ARBON DR	138	--
SUBTOTAL	20,271	1,284
PROJECT TOTAL	21,555	

3

CONCRETE PAVEMENT JOINT LAYOUT

CATEGORY	LOCATION	415.5110.S CONCRETE PAVEMENT JOINT LAYOUT LS
0030	66TH ST, 60TH ST, 51ST ST	1
PROJECT TOTAL		1

SAWING

LOCATION	690.0250 SAWING CONCRETE LF
STH 100/N 66TH	290
STH 100/N 60TH	302
STH 100/N 51ST	285
PROJECT TOTAL	877

MISC. QUANTITIES

LOCATION	SPV.0060.23 SELECT STONE MATERIAL 3'X3'X4' EACH	SPV.0090.04 COMPACTED GRAVEL LEVELING COURSE LF	SPV.0165.02 10-INCH SNAPPED LIMESTONE WALL SF	SPV.0060.15 MASONRY PILLAR AND WALL EACH	SPV.0060.22 REMOVE, STOCKPILE, AND REINSTALL MUNICPAL MONUMENT SIGN EACH	SPV.0090.03 STEEL EDGING MATERIAL LF	SPV.0035.01 SHREDDED HARDWOOD BARK MULCH CY	625.0100 TOPSOIL SY	631.1000 SOD LAWN SY	631.0300 SOD WATER MGAL	629.0210 FERTILIZER TYPE B CWT
PROJECT TOTAL	9	320	1000	2	1	630	165	4625	2333	104	1.47

ALL ITEMS CATEGORY 0030

LANDSCAPING TREES

LOCATION	632.0101.01 CARPINUS CAROLINIANA 'J.N. UPRIGHT' B&B, 2.5-INCH CAL EACH	632.0101.02 SYRINGA RETICULATA 'IVORY SILK' B&B, 2.5-INCH CAL EACH	632.0101.03 GINKGO BILOBA 'PRINCETON SENTRY' B&B, 2.5-INCH CAL EACH	632.0101.04 MALUS ROYAL RAINDROPS' B&B, 2.5-INCH CAL EACH	632.0101.05 GLEDITSIA TRIACANTHOS 'SHADEMASTER' B&B, 2.5-INCH CAL EACH	632.0101.06 CATRAEGUS VIRIDIS 'WINTER KING' B&B, 2.5-INCH CAL EACH	NOTE
	FIRESPIRE MUSCLEWOOD	IVORY SILK TREE LILAC	PREINCETON SENTRY GINKO	ROYAL RAINDROPS CRABAPPLE	SHADEMASTER HONEYLOCUST	WINTER KING HAWTHORN	COMMON NAME
	2.5-INCH CAL	2-INCH CAL	2-INCH CAL	2-INCH CAL	2.5-INCH CAL	2.5-INCH CAL	SIZE WHEN PLANTED
	B&B	B&B	B&B	B&B	B&B	B&B	ROOT ZONE MODE
PROJECT TOTAL	20	6	3	4	3	3	

LANDSCAPING SHRUBS

LOCATION	632.0201.01 DIERVILLA LONICERA 'DWARF BUSH' CG, NO. 2 EACH	632.0201.02 RHUS AROMATICA ‘GRO-LOW’ CG, NO. 2 EACH	632.0201.03 ROSA RUGOSA ‘DWARF PAVEMENT’ CG, NO. 2 EACH	NOTE
	SEE BED SCHEDULE	SEE BED SCHEDULE	SEE BED SCHEDULE	LABEL
	DWARF BUSH HONEYSUCKLE	GRO-LOW SUMAC	DWARF PAVEMENT ROSE	COMMON NAME
	NO. 2	NO. 2	NO. 2	SIZE WHEN PLANTED
	CG	CG	CG	ROOT ZONE MODE
PROJECT TOTAL	50	26	61	

PERENNIALS

LOCATION	SPV.0060.16 PERENNIALS, GERANIUM X CANTABRIGIENSE ‘KARMINA’ CG, NO. 1 EACH	SPV.0060.17 PERENNIALS, PANICUM VIRGATUM ‘HEAVY METAL’ CG, NO. 1 EACH	SPV.0060.18 PERENNIALS, NEPETA ‘KIT CAT’ CG, NO. 1 EACH	SPV.0060.19 PERENNIALS, SCHIZACHYRIUM SCOPARIUM ‘LITTLE BLUESTEM GRASS’ CG, NO. 1 EACH	SPV.0060.20 PERENNIALS, CALAMINTHA NEPETA ‘MONTROSE WHITE’ CG, NO. 1 EACH	SPV.0060.21 PERENNIALS, SPOROBULUS HETEROLEPSIS ‘PRAIRIE DROPSEED’ CG, NO. 1 EACH	NOTE
	SEE BED SCHEDULE	SEE BED SCHEDULE	SEE BED SCHEDULE	SEE BED SCHEDULE	SEE BED SCHEDULE	SEE BED SCHEDULE	LABEL
	BIOKOVO KARMINA GERANIUM	HEAVY METAL SWITCH GRASS	KIT CAT CATMINT	LITTLE BLUESTEM GRASS	MONTROSE WHITE CATMINT	PRAIRIE DROPSEED	COMMON NAME
	NO. 1	NO. 1	NO. 1	NO. 1	NO. 1	NO. 1	SIZE WHEN PLANTED
	CG	CG	CG	CG	CG	CG	ROOT ZONE MODE
PROJECT TOTAL	256	33	8	81	152	138	

ALL ITEMS CATEGORY 0030

TYPE II PERMANENT SIGNING

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W x H	637.2210 SIGNS TYPE II REFLECTIVE H (SF)	637.2230 SIGNS TYPE II RELFECTIVE F (SF)	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING (SF)	638.3000 REMOVING SMALL SIGN SUPPORTS (EA)	638.2602 REMOVING SIGNS TYPE II (EA)	638.2102 MOVING SIGNS TYPE II (EA)	634.0618 POSTS WOOD 4" X 6" X 18' (EA)	634.0816 POSTS TUBULAR STEEL 2" X 2" X 16' (EA)	MOUNT ON SAME POST AS	
1	D1-2	N. SWAN RD N. 91ST ST	78 x 30	16.25			2	1					
2	R3-20L(2M)		24 X 36	6.000									
3	R1-1F(2M)		36 X 36			7.460		1					SIGNAL POLE
4	R7-1D(2M)		24 X 30	5.000				1					LIGHT POLE
5	R6-1L(2S)		36 X 12	3.000									SIGNAL POLE
6	R1-1F(2M)		36 X 36			7.460		1					SIGNAL POLE
7	R5-1(2M)		36 X 36	9.000									SIGNAL POLE
8	J3-1(2S)		24 X 45	7.500							1		
	M1-6	STH 100	24 X 24										
	M6-4		21 X 21										
9	R1-1F(2M)		36 X 36			7.460		1					SIGNAL POLE
10	R5-1(2M)		36 X 36	9.000									SIGNAL POLE
11	R6-3(2M)		30 X 24	5.000								9	SIGNAL POLE. MOUNT ABOVE FOLD UP STOP
12	M1-94H (MODIFIED)	N. SWAN RD 91ST ST	66 x 30	13.750									ON SIGNAL ARM
13	R6-1L(2S)		36 X 12	3.000				1					ON PED POLE
14	R7-1D(2M)		24 X 30	5.000									SIGNAL POLE
15	R4-7(2M)		24 X 30	5.000				1					SIGNAL POLE
16	R1-1F(2M)		36 X 36			7.460		1					SIGNAL POLE
17	R1-1F(2M)		36 X 36			7.460		1					SIGNAL POLE
18	R5-1(2M)		36 X 36	9.000									SIGNAL POLE
19	R6-1L(2S)		36 X 12	3.000									SIGNAL POLE
20	M1-94H MODIFIED	N. 91ST ST N. SWAN RD	66 x 30	13.750									ON MAST ARM
21	R6-3(2M)		30 X 24	5.000									SIGNAL POLE
22	R1-1F(2M)		36 X 36			7.460		1				21	SIGNAL POLE BELOW SIGN # 21
23	J3-1(2S)		24 X 45	7.500							1		
	M1-6		24 X 24										
	M6-4		21 X 21										
24	R6-1R(2S)		36 X 12	3.000						1			
25	W3-3(2M)		36 X 36		9.000		1	1		1			
26	R4-7(2M)		24 X 30	5.000				1					SIGNAL POLE
27	R6-1L(2S)		36 X 12	3.000				1					SIGNAL POLE
28	J4-1(2M)		24 X 36	6.000									LIGHT POLE
29	D1-2	N 91ST ST	78 x 30	16.250									

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIES – PERMANENT SIGNING	SHEET:	E

TYPE II PERMANENT SIGNING

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W x H	637.2210 SIGNS TYPE II REFLECTIVE H (SF)	637.2230 SIGNS TYPE II RELFECTIVE F (SF)	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING (SF)	638.3000 REMOVING SMALL SIGN SUPPORTS (EA)	638.2602 REMOVING SIGNS TYPE II (EA)	638.2102 MOVING SIGNS TYPE II (EA)	634.0618 POSTS WOOD 4" X 6" X 18' (EA)	634.0816 POSTS TUBULAR STEEL 2" X 2" X 16' (EA)	MOUNT ON SAME POST AS	
30	R4-7(2M)		24 X 30	5.000			1	1		1			
31	R4-7(2M)		24 X 30	5.000			1	1		1			
32	R2-1(2M)		30 X 36	7.500			1	1		1			
33	W3-3(2M)		36 X 36		9.000		1	1		1			
34	R4-7(2M)		24 X 30	5.000			1	1		1			
35	R4-7(2M)		24 X 30	5.000			1	1		1			
36	D1-65	N 85TH ST NEXT SIGNAL	60 x 21	8.750						2			
37	R3-20L(2M)		24 X 36	6.000						1			
38	R1-1F(2M)		36 X 36			7.460		1					SIGNAL POLE
39	R5-1(2M)		36 X 36	9.000									SIGNAL POLE
40	R1-1F(2M)		36 X 36			7.460		1					SIGNAL POLE
40A	R6-3(2M)		30 X 24	5.000								40	SIGNAL POLE. MOUNT ABOVE SIGN 40
41	R7-1D(2M)		24 X 30	5.000				1					SIGNAL POLE
42	R6-1L(2S)		36 X 12	3.000								41	SIGNAL POLE BELOW # 41
43	M1-94H	N. 85TH ST	66 x 18	8.250									ON SIGNAL ARM
44	J4-1(2M)		24 X 36	6.000									LIGHT POLE
	M3-2		24 X 12										
	M1-6	STH 100	24 X 24										
45	NOT USED												
46	NOT USED												
47	NOT USED												
48	NOT USED												
49	R7-1D(2M)		24 X 30	5.000				1					SIGNAL POLE
50	R1-1F(2M)		36 X 36			7.460		1					SIGNAL POLE
51	R5-1(2M)		36 X 36	9.000									SIGNAL POLE
52	R6-1L(2S)		36 X 12	3.000									SIGNAL POLE
53	M1-94S	100 - W. BROWN DEER RD	102 x 18	12.750									SIGNAL ARM
54	R1-1F(2M)		36 X 36			7.460		1					SIGNAL POLE
55	R6-3(2M)		30 X 24	5.000								54	MOUNT ABOVE SIGN # 54
56	J3-1(2M)		24 X 45	7.500							1		
	M1-6	STH 100	24 X 24										
	M6-4		21 X 21										
57	R6-1R(2S)		36 X 12	3.000						1			
58	R1-1 (2M)		36 X 36	7.460			1	1					LIGHT POLE
59	R4-7(2M)		24 X 30	5.000									SIGNAL POLE

TYPE II PERMANENT SIGNING

2150-00-71 STH 100

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W x H	637.2210 SIGNS TYPE II REFLECTIVE H (SF)	637.2230 SIGNS TYPE II RELFECTIVE F (SF)	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING (SF)	638.3000 REMOVING SMALL SIGN SUPPORTS (EA)	638.2602 REMOVING SIGNS TYPE II (EA)	638.2102 MOVING SIGNS TYPE II (EA)	634.0618 POSTS WOOD 4" X 6" X 18' (EA)	634.0816 POSTS TUBULAR STEEL 2" X 2" X 16' (EA)	MOUNT ON SAME POST AS	
60	R5-1(2M)		36 X 36	9.000									SIGNAL POLE
61	R6-1L(2S)		36 X 12	3.000									SIGNAL POLE
62	R4-7(2M)		24 X 30	5.000				1					SIGNAL POLE
63	R1-1F(2M)		36 X 36			7.460							SIGNAL POLE
64	M1-94S	100 W. BROWN DEER RD	102 x 18	12.750									MOUNT ON SIGNAL ARM
65	R5-1(2M)		36 X 36	9.000									LIGHT POLE
66	R4-7(2M)		24 X 30	5.000			1	1		1			
67	D1-1	N. 82ND ST	72 x 15	7.500						2			
68	D1-65	N.. 85TH ST NEXT SIGNAL	60 x 21	8.750						2			
69	R4-7(2M)		24 X 30	5.000						1			
70	R3-20L(2M)		24 X 36	6.000						1			
71	R5-1(2M)		36 X 36	9.000									LIGHT POLE
72	R7-1D(2M)		24 X 30	5.000				1					LIGHT POLE
73	W3-3(2M)		36 X 36		9.000			1					LIGHT POLE
74	W3-3(2M)		36 X 36		9.000		1	1		1			
75	R4-7(2M)		24 X 30	5.000			1	1		1			
76	D1-65	N SERVITE DR NEXT SIGNAL	72 x 21	10.500						2			
77	R3-20L(2M)		24 X 36	6.000						1			
78	R2-1(2M)		30 X 36	7.500			1	1		1			
79	R2-1(2M)		30 X 36	7.500									LIGHT POLE
80	R1-1(2M)		36 X 36	7.460			1	1		1			
81	R1-1F(2M)		36 X 36			7.460		1					SIGNAL POLE
82	M1-94S	100 W. BROWN DEER RD	102 x 18	12.750									MOUNT ON SIGNAL ARM
83	R5-1(2M)		36 X 36	9.000									SIGNAL POLE
84	R5-1(2M)		36 X 36	9.000									SIGNAL POLE
85	R6-1L(2S)		36 X 12	3.000									SIGNAL POLE
86	R1-1F(2M)		36 X 36			7.460		1					SIGNAL POLE
87	R6-3(2M)		30 X 24	5.000								86	SIGNAL POLE ABOVE SIGN 86
88	J3-1(2S)		24 X 45	7.500							1		
	M1-6	STH 100	24 X 24										
	M6-4		21 X 21										

TYPE II PERMANENT SIGNING

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W x H	637.2210 SIGNS TYPE II REFLECTIVE H (SF)	637.2230 SIGNS TYPE II RELFECTIVE F (SF)	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING (SF)	638.3000 REMOVING SMALL SIGN SUPPORTS (EA)	638.2602 REMOVING SIGNS TYPE II (EA)	638.2102 MOVING SIGNS TYPE II (EA)	634.0618 POSTS WOOD 4" X 6" X 18' (EA)	634.0816 POSTS TUBULAR STEEL 2" X 2" X 16' (EA)	MOUNT ON SAME POST AS	
89	J4-1(2M)		24 x 36	6.000									SIGNAL POLE
	M3-2		24 x 12										
	M1-6	STH 100	24 x 24										
90	M1-94H	N. SERVITE DR	84 x 18	10.500									SIGNAL ARM
91	J2-2(2M)		48 x 60	20.000			1	1		2			
	M3-1		24 x 12										
	M1-6	STH 181	24 x 24										
	M4-20L		24 x 24										
	M3-3		24 x 12										
	M1-6	STH 181	24 x 24										
	M5-2R		21 x 21										
92	J2-2(2M)		48 x 60	20						2			
	M3-1		24 x 12										
	M1-6	STH 181	24 x 24										
	M4-20L		21 x 21										
	M3-3		24 x 12										
	M1-6	STH 181	24 x 24										
	M5-2R		21 x 21										
93	R1-2(2M)		48 x 42	7.000			1	1		1			
94	NOT USED												
95	NOT USED												
96	NOT USED												
97	NOT USED												
98	R6-1L(2S)		36 x 12	3.000						1			
99	M1-94S	100 W BROWN DEER RD	102 x 18	12.750									SIGNAL ARM
100	J3-1(2M)		24 x 45	7.500							1		
	M1-6	STH 100	24 x 24										
	M6-4		21 x 21										
101	R1-1F(2M)		36 x 36			7.460		1					SIGNAL POLE
102	R1-1F(2M)		36 x 36			7.460		1					SIGNAL POLE
103	R6-3(2M)		30 x 24	5.000								102	MOUNT ABOVE # 102
104	R5-1(2M)		36 x 36	9.000									SIGNAL POLE
105	M1-94H	N SERVITE DR	84 x 18	10.500									SIGNAL ARM
106	R7-1D(2M)		24 x 30	5.000				1					SIGNAL POLE
107	R6-1L(2S)		36 x 12	3.000				1					SIGNAL POLE
108	R4-7(2M)		24 x 30	5.000				1					SIGNAL POLE
109	R4-7(2M)		24 x 30	5.000				1					SIGNAL POLE
110	R4-7(2M)		24 x 30	5.000				1					SIGNAL POLE
111	R1-1F(2M)		36 x 36			7.460		1					SIGNAL POLE
112	R1-1F(2M)		36 x 36			7.460		1					SIGNAL POLE
113	R10-15R(2M)		30 x 30	6.250									LIGHT POLE
114	W11-2(2M)		36 x 36		9.000								LIGHT POLE
115	W16-7L(2M)		30 x 18		3.750							114	
116	W11-2(2M)		36 x 36		9.000					1			
117	W16-7R(2M)		30 x 18		3.750							116	
118	J3-1(2M)		24 x 57	9.500			1	1		1			
	M3-3		24 x 12										
	M1-6	STH 181	24 x 24										
	M6-2		21 x 21										
119	J3-1(2M)		24 x 60	10.000						1			
	M3-1		24 x 12										
	M1-6	STH 181	24 x 24										
	M4-20L		24 x 24										

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIES – PERMANENT SIGNING	SHEET:	E

TYPE II PERMANENT SIGNING

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W x H	637.2210 SIGNS TYPE II REFLECTIVE H (SF)	637.2230 SIGNS TYPE II RELFECTIVE F (SF)	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING (SF)	638.3000 REMOVING SMALL SIGN SUPPORTS (EA)	638.2602 REMOVING SIGNS TYPE II (EA)	638.2102 MOVING SIGNS TYPE II (EA)	634.0618 POSTS WOOD 4" X 6" X 18' (EA)	634.0816 POSTS TUBULAR STEEL 2" X 2" X 16' (EA)	MOUNT ON SAME POST AS	
120	R1-1F(2M)		36 X 36			7.460		1					SIGNAL POLE
121	R6-1L(2S)		36 X 12	3.000				1					SIGNAL POLE
122	R1-1F(2M)		36 X 36			7.460		1					LIGHT POLE
123	R5-1(2M)		36 X 36	9.000				1					LIGHT POLE
124	J2-1(2M)		24 X 57	9.500				1					SIGNAL POLE
	M3-1		24 X 12										
	M1-6	STH 181	24 X 24										
	M5-1L		21 X 21										
125	R4-7(2M)		24 X 30	5.000				1					LIGHT POLE
126	R1-1F(2M)		36 X 36			7.460		1					SIGNAL POLE
127	R1-1F(2M)		36 X 36			7.460		1					SIGNAL POLE
128	J3-1(2M)		24 X 57	9.500				1					SIGNAL POLE
	M3-3		24 X 12										
	M1-6	STH 181	24 X 24										
	M6-1		21 X 21										
129	R5-1(3)		36 X 36	9.000						1			
130	R5-1A(2S)		36 X 24	6.000								129	3 FOOT MOUNTING HEIGHT
131	NOT USED												
132	NOT USED												
133	R5-1(2M)		36 X 36	9.000									SIGNAL POLE
134	R6-1L(2S)		36 X 12	3.000									SIGNAL POLE
135	R1-1F(2M)		36 X 36			7.460		1					SIGNAL POLE
136	R1-1 (2M)		36 X 36	7.460				1					LIGHT POLE
137	R6-1R(2S)		36 X 12	3.000			1	1		1			
138	D1-65	N. SERVITE DR NEXT SIGNAL	72 x 21	10.500						2			
139	R5-1(3)		36 X 36	9.000				1					SIGNAL POLE
140	R4-7(2M)		24 X 30	5.000			1	1		1			
141	R3-1(2M)		36 X 36	9.000				1					SIGNAL POLE
142	R1-1F(2M)		36 X 36			7.460		1					SIGNAL POLE
143	R6-1L(2M)		36 X 12	3.000				1					SIGNAL POLE
144	R5-1(3)		36 X 36	9.000				1					SIGNAL POLE
145	R5-1A(2S)		36 X 24	6.000								144	MOUNT 3 FOOT MOUNTING HEIGHT UNDER R5-1
146	R1-1F(2M)		36 X 36			7.460		1					SIGNAL POLE
147	R6-3(2M)		30 X 24	5.000								146	MOUNT ABOVE THE R1-1F
148	R1-1 (2M)		36 X 36	7.460			1	1		1			
149	R5-1(2M)		36 X 36	9.000									SIGNAL POLE
150	R6-1L(2M)		36 X 12	3.000				1					SIGNAL POLE
151	D1-1	N. 76TH ST	72 x 15	7.500						2			

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIES – PERMANENT SIGNING	SHEET:	E

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W x H	637.2210 SIGNS TYPE II REFLECTIVE H (SF)	637.2230 SIGNS TYPE II RELFECTIVE F (SF)	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING (SF)	638.3000 REMOVING SMALL SIGN SUPPORTS (EA)	638.2602 REMOVING SIGNS TYPE II (EA)	638.2102 MOVING SIGNS TYPE II (EA)	634.0618 POSTS WOOD 4" X 6" X 18' (EA)	634.0816 POSTS TUBULAR STEEL 2" X 2" X 16' (EA)	MOUNT ON SAME POST AS	
152	J2-1(2M)		24 X 60	10.000						1			
	M3-3		24 X 12										
	M1-6	STH 181	24 X 24										
	M4-20L		24 X 24										
153	NOT USED												
154	NOT USED				``								
155	W11-2(2M)		36 X 36		9.000					1			
156	W16-7L(2M)		30 X 18		3.750							155	
157	J3-1(2M)		24 X 57	9.500			1	1		1			
	M3-1		24 X 12										
	M1-6	STH 181	24 X 24										
	M6-2		21 X 21										
158	W11-2(2M)		36 X 36		9.000					1			
159	W16-7R(2M)		30 X 18		3.750							158	
160	R1-1F(2M)		36 X 36			7.460		1					SIGNAL POLE
161	R6-1L(2S)		36 X 12	3.000				1					SIGNAL POLE
162	R4-7(2M)		24 X 30	5.000				1					LIGHT POLE
163	R1-1F(2M)		36 X 36			7.460							SIGNAL POLE
164	J3-1(2M)		24 X 57	9.500			1	1		1			
	M3-1		24 X 12										
	M1-6	STH 181	24 X 24										
	M6-1		21 X 21										
165	R5-1(2M)		36 X 36	9.000									SIGNAL POLE
166	R4-7(2M)		24 X 30	5.000			1	1		1			
167	R3-18(2M)		36 X 36	9.000			1	1		1			
168	R2-1(2M)		30 X 36	7.500			1	1		1			
169	R5-1(2M)		36 X 36	9.000									LIGHT POLE
170	W11-2(2M)		36 X 36		9.000					1			
171	W16-7R(2M)		30 X 18		3.750							170	
172	R4-7(2M)		24 X 30	5.000						1			
173	R1-1 (2M)		36 X 36	7.460			1	1		1			
174	W11-2(2M)		36 X 36		9.000					1			
175	W16-7L(2M)		30 X 18		3.750							174	
176	D1-1	N. 72ND ST	72 x 15	7.500						2			
177	W11-2(2M)		36 X 36		9.000							170	
178	W16-7R(2M)		30 X 18		3.750							177	
179	W11-2(2M)		36 X 36		9.000					1			
180	W16-7L(2M)		30 X 18		3.750							179	

TYPE II PERMANENT SIGNING

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W x H	637.2210 SIGNS TYPE II REFLECTIVE H (SF)	637.2230 SIGNS TYPE II RELFECTIVE F (SF)	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING (SF)	638.3000 REMOVING SMALL SIGN SUPPORTS (EA)	638.2602 REMOVING SIGNS TYPE II (EA)	638.2102 MOVING SIGNS TYPE II (EA)	634.0618 POSTS WOOD 4" X 6" X 18' (EA)	634.0816 POSTS TUBULAR STEEL 2" X 2" X 16' (EA)	MOUNT ON SAME POST AS	
181	D1-2	WAUWATOSA	78 x 30	16.250			2	1		2			
		MEQUON											
182	W3-3(2M)		36 X 36		9.000		1	1		1			
183	R4-7(2M0		24 x 30	5.000			1	1		1			
184	J3-2						2		1	2			
185	R5-1(2M)		36 X 36	9.000									LIGHT POLE
186	R3-53R(2S)		24 X 30	5.000								187	
187	R1-1(2M)		36 X 36	7.460			1	1		1			
188	R5-1(2M)		36 X 36	9.000						1			
189	R4-7(2M)		24 X 30	5.000						1			
190	W12-1D(2S)		24 X 24		4.000					1			2 FOOT MOUNTING HEIGHT
191	R3-2(2M)		36 X 36	9.000			1	1		1			
192	D1-1	N. 70TH ST	72 x 15	7.500						2			
193	R3-4						1	1					
194	W12-1D(2S)		24 X 24		4.000					1			2 FOOT HEIGHT
195	R6-1R(2S)		36 X 12	3.000						1			
196	R3-2(2M)		36 X 36	9.000						1			
197	W11-2(2M)		36 X 36		9.000		1	1		1			
198	W16-9P(2M)		30 X 18		3.750							197	
199	R1-2(2M)		48 X 42	7.000			1	1		1			
200	R5-1(2M)		36 X 36	9.000						1			
201	R7-1D(2M)		24 X 30	5.000									LIGHT POLE
202	R4-7						1	1					
203	R5-1(2M)		36 X 36	9.000								195	
204	R4-7(2M)		24 X 30	5.000						1			
205	R3-2(2M)		36 X 36	9.000								204	
206	R4-7(2M)		24 X 30	5.000			1	1		1			
207	D1-65	N. 68TH ST	72 x 15	7.500						2			
208	W11-2(2M)		36 X 36		9.000		1	1		1			
209	W16-7L(2M)		30 X 18		3.750							208	
210	W11-2(2M)		36 X 36		9.000					1			

TYPE II PERMANENT SIGNING

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W x H	637.2210 SIGNS TYPE II REFLECTIVE H (SF)	637.2230 SIGNS TYPE II RELFECTIVE F (SF)	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING (SF)	638.3000 REMOVING SMALL SIGN SUPPORTS (EA)	638.2602 REMOVING SIGNS TYPE II (EA)	638.2102 MOVING SIGNS TYPE II (EA)	634.0618 POSTS WOOD 4" X 6" X 18' (EA)	634.0816 POSTS TUBULAR STEEL 2" X 2" X 16' (EA)	MOUNT ON SAME POST AS	
211	W16-7R(2M)		30 X 18		3.750							210	
212	W11-2(2M)		36 X 36		9.000		1	1		1			
213	W16-7L(2M)		30 X 18		3.750							212	
214	R4-7(2M)		24 X 30	5.000			1	1		1			
215	R3-4(2M)		36 X 36	9.000								214	
216	NONE	TIME OF DAY PLAQUE							1			214	
217	R3-4(2M)		36 X 36	9.000			1	1		1			
218	R4-7(2M)		24 X 30	5.000						1			
219	R1-1(2M)		36 X 36	7.460			1	1		1			
220	W3-3(2M)		36 X 36		9.000		1	1		1			
221	W3-3(2M)		36 X 36		9.000		1	1		1			
222	R3-20LL(2M)		24 X 36	6.000						1			
223	W11-2(2M)		36 X 36		9.000		1	1		1			
224	W16-9P(2M)		30 X 18		3.750							223	
225	R6-1R(2S)		36 X 12	3.000			1	1		1			
226	R1-1F(2M)		36 X 36			7.460		1					SIGNAL POLE
227	R1-1F(2M)		36 X 36			7.460		1					SIGNAL POLE
228	M1-94S	100 W BROWN DEER RD	102 x 18	12.750									ON SIGNAL ARM BROWN SIGN
229	R1-1F(2M)		36 X 36			7.460		1					SIGNAL ARM
230	R6-3(2M)		30 X 24	5.000								229	MOUNT ABOVE R1-1F
231	M1-94H	PARK PLAZA N. 66TH ST	102 x 30	21.250				1					MOUNT ON ARM. BROWN SIGN
232	J3-1(2S)		24 X 45	7.500							1		
	M1-6	STH 100	24 X 24										
	M6-4		21 X 21										
233	R7-1D(2M)		24 X 30	5.000				1					SIGNAL POLE
234	J4-1(2M)		24 X 36	6.000						1			
	M3-2		24 X 12										
	M1-6	STH 100	24 X 24										
235	D1-65	64TH ST NEXT SIGNAL	60 x 21	8.750			2	1		2			
236	R3-20LL(2M)		24 X 36	6.000						1			
237	W3-3						1	1					
238	W3-3						1	1					
239	R3-20L (2M)		24 X 36	6.000						1			
240	NOT USED												

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIES – PERMANENT SIGNING	SHEET:	E

3

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W x H	637.2210 SIGNS TYPE II REFLECTIVE H (SF)	637.2230 SIGNS TYPE II RELFECTIVE F (SF)	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING (SF)	638.3000 REMOVING SMALL SIGN SUPPORTS (EA)	638.2602 REMOVING SIGNS TYPE II (EA)	638.2102 MOVING SIGNS TYPE II (EA)	634.0618 POSTS WOOD 4" X 6" X 18' (EA)	634.0816 POSTS TUBULAR STEEL 2" X 2" X 16' (EA)	MOUNT ON SAME POST AS	
241	NOT USED												
242	R1-1F(2M)		36 X 36			7.460		1					SIGNAL POLE
243	R5-1(2M)		36 X 36	9.000						1			
244	R5-1(2M)		36 X 36	9.000									SIGNAL POLE
245	R5-1(2M)		36 X 36	9.000									SIGNAL POLE
246	R5-1(2M)		36 X 36	9.000									SIGNAL POLE
247	R4-7(2M)		24 X 36	6.000				1					LIGHT POLE
248	R4-7(2M)		24 X 36	6.000			1	1					SIGNAL POLE
249	R6-1L(2S)		36 X 12	3.000									SIGNAL POLE
250	R1-1F(2M)		36 X 36			7.460		1					SIGNAL POLE
251	R3-20LL(2M)		24 X 36	6.000						1			
252	R2-1	SPEED LIMIT 40					1	1					
253	R4-7(2M)		24 X 36	6.000			1	1		1			
254	R6-1L(2S)		36 X 12	3.000						1			
255	J3-1(2S)		24 X 45	7.500							1		
	M1-6	STH 100	24 X 24										
	M6-4		21 X 21										
256	R5-1(2M)		36 X 36	9.000									SIGNAL POLE
257	R6-1L(2S)		36 X 12	3.000						1			
258	M1-94H	PARK PLAZA CT	102 x 30	21.250				1					SIGNAL ARM. BROWN SIGN
		N. 66TH ST											
259	R1-1F(2M)		36 X 36			7.460		1					SIGNAL POLE
260	R6-3(2M)		30 X 24	5.000								259	SIGNAL POLE ABOVE R1-1F
261	M1-94S	100 W BROWN DEER RD	102 x 18	12.750									SIGNAL ARM. BROWN SIGN
262	R1-1F(2M)		36 X 36			7.460		1					SIGNAL POLE
263	M1-94S	100 W BROWN DEER RD	102 x 18	12.750									SIGNAL ARM. BROWN SIGN
264	R5-1(2M)		36 X 36	9.000									SIGNAL POLE
265	R6-3(2M)		30 X 24	5.000									SIGNAL POLE. ABOVE R1-1F
266	J3-1(2S)		24 X 45	7.500							1		
	M1-6	STH 100	24 X 24										
	M6-4		21 X 21										
267	R1-1F(2M)		36 X 36			7.460						265	SIGNAL POLE
268	R6-1L(2S)		36 X 12	3.000									SIGNAL POLE
269	R7-1D(2M)		24 X 30	5.000									SIGNAL POLE
270	M1-94H	N. 64TH ST	84 x 18	10.500				1					SIGNAL ARM. BROWN SIGN

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W x H	637.2210 SIGNS TYPE II REFLECTIVE H (SF)	637.2230 SIGNS TYPE II RELFECTIVE F (SF)	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING (SF)	638.3000 REMOVING SMALL SIGN SUPPORTS (EA)	638.2602 REMOVING SIGNS TYPE II (EA)	638.2102 MOVING SIGNS TYPE II (EA)	634.0618 POSTS WOOD 4" X 6" X 18' (EA)	634.0816 POSTS TUBULAR STEEL 2" X 2" X 16' (EA)	MOUNT ON SAME POST AS	
271	J4-1(2M)		24 X 36	6.000						1			
	M3-2		24 X 12										
	M1-6	STH 100	24 X 24										
272	R4-7(2M)		24 X 30	5.000			1	1					SIGNAL POLE
273	R5-1(2M)		36 X 36	9.000									SIGNAL POLE
274	R5-1(2M)		36 X 36	9.000						1			
275	R1-1F(2M)		36 X 36			7.460						274	
276	R1-1F(2M)		36 X 36			7.460		1					SIGNAL POLE
277	J3-1(2S)		24 X 45	7.500							1		
	M1-6	STH 100	24 X 24										
	M6-4		21 X 21										
278	NOT USED												
279	NOT USED												
280	NOT USED												
281	NOT USED												
282	R5-1(2M)		36 X 36	9.000								276	SIGNAL POLE
283	M1-94S	100 W. BROWN DEER RD	102 x 18	12.750									SIGNAL ARM. BROWN SIGN
284	R1-1F(2M)		36 X 36			7.460		1					SIGNAL POLE
284A	R6-3(2M)		30 X 24	5.000								284	SIGNAL POLE . MOUNT ABOVE R1-1F
285	J4-1(2M)		24 X 36	6.000									SIGNAL POLE
	M3-4		24 X 12										
	M1-6	STH 100	24 X 24										
286	M1-94H	N. 64TH ST	84 x 18	10.500				1					ON SIGNAL ARM. BROWN SIGN
287	R6-1L(2S)		36 X 12	3.000						1			
288	R4-7(2M)		24 X 36	6.000				1					LIGHT POLE
289	R3-20LL(2M)		24 X 36	6.000						1			
290	D1-65	N. 60TH ST NEXT SIGNAL	60 x 21	8.750			2	1		2			
291	R3-20L(2M)		24 X 36	6.000						1			
292	R6-1R(2S)		36 X 12	3.000						1			
293	D1-65	N. 64TH ST NEXT SIGNAL	60 x 21	8.750						2			
294	R3-20L(2M)		24 X 36	6.000						1			
295	M1-94S	100 W. BROWN DEER RD	102 x 18	12.750				1					MOUNT ON SIGNAL ARM. BROWN SIGN
296	R3-20LL(2M)		24 X 36	6.000						1			
297	R1-1F(2M)		36 X 36			7.460		1					SIGNAL POLE
298	R5-1(2M)		36 X 36	9.000									SIGNAL POLE
299	R1-1F(2M)		36 X 36			7.460		1					SIGNAL POLE
300	R6-3(2M)		30 X 24	5.000								299	SIGNAL POLE ABOVE R1-1F

TYPE II PERMANENT SIGNING

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W x H	637.2210 SIGNS TYPE II REFLECTIVE H (SF)	637.2230 SIGNS TYPE II RELFECTIVE F (SF)	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING (SF)	638.3000 REMOVING SMALL SIGN SUPPORTS (EA)	638.2602 REMOVING SIGNS TYPE II (EA)	638.2102 MOVING SIGNS TYPE II (EA)	634.0618 POSTS WOOD 4" X 6" X 18' (EA)	634.0816 POSTS TUBULAR STEEL 2" X 2" X 16' (EA)	MOUNT ON SAME POST AS	
301	R6-1L(2S)		36 X 12	3.000									SIGNAL POLE
302	J3-1(2S		24 X 45	7.500							1		
	M1-6	STH 100	24 X 24										
	M6-4		21 X 21										
303	M1-94H	N. 60TH ST	84 x 18	10.500				1					MOUNT ON SIGNAL ARM. BROWN SIGN
304	R7-1D(2M)		24 X 30	5.000									SIGNAL POLE
305	R2-1(2M)	SPEED LIMIT 40	30 X 36	7.500			1	1		1			
306	R1-1F(2M)		36 X 36			7.460		1					SIGNAL POLE
307	R5-1(2M)		36 X 36	9.000									SIGNAL POLE
308	R1-1F(2M)		36 X 36			7.460		1					SIGNAL POLE
309	R5-192M)		36 X 36	9.000									SIGNAL POLE
310	NOT USED												
311	NOT USED												
312	NOT USED												
313	NOT USED												
314	M1-94S	100 W BROWN DEER RD	102 x 18	12.750				1					MOUNT ON SIGNAL ARM. BROWN SIGN
315	R4-7(2M)		24 X 30	5.000			1	1					LIGHT POLE
316	R4-7(2M)		24 X 30	5.000			1	1		1			
317	R1-1F(2M)		36 X 36			7.460		1					SIGNAL POLE
318	R6-3(2M)		30 X 24	5.000								317	MOUNT ABOVE R1-1F
319	R6-1L(2S)		36 X 12	3.000									SIGNAL POLE
320	M1-94H	N. 60TH ST	84 x 18	10.500				1					ON SIGNAL ARM. BROWN SIGN
321	J3-1(2S)		24 X 45	7.500							1		
	M1-6	STH 100	24 X 24										
	M6-4		21 X 21										
322	R1-1F(2M)		36 X 36			7.460		1					SIGNAL POLE
323	R5-1(2M)		36 X 36	9.000									SIGNAL POLE
324	J4-1(2M)		24 X 36	6.000						1			
	M3-2		24 X 12										
	M1-6	STH 100	24 X 24										
325	NOT USED												
326	D1-65	N. 60TH ST NEXT SIGNAL	60 x 21	8.750			2	1		2			
327	R3-20L(2M)		24 X 36	6.000						1			
328	R6-1R(2S)		36 X 12	3.000			1	1		1			
329	R3-20LL(2M)		24 X 36	6.000						1			
330	R5-1(2M)		36 X 36	9.000									BACK OF EXISTING SIGN

TYPE II PERMANENT SIGNING

2150-00-71 STH 100

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W x H	637.2210 SIGNS TYPE II REFLECTIVE H (SF)	637.2230 SIGNS TYPE II RELFECTIVE F (SF)	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING (SF)	638.3000 REMOVING SMALL SIGN SUPPORTS (EA)	638.2602 REMOVING SIGNS TYPE II (EA)	638.2102 MOVING SIGNS TYPE II (EA)	634.0618 POSTS WOOD 4" X 6" X 18' (EA)	634.0816 POSTS TUBULAR STEEL 2" X 2" X 16' (EA)	MOUNT ON SAME POST AS	
331	R1-1(2M)		36 X 36	7.460			1	1		1			
332	R6-1L(2S)		36 X 12	3.000						1			
333	R4-7(2M)		24 X 30	5.000			1	1		1			
334	R4-7(2M)		24 X 30	5.000						1			
335	R1-1(2M)		36 X 36	7.460			1	1		1			
336	R4-7(2M)		24 X 30	5.000			1	1		1			
337	R4-7(2M)		24 X 30	5.000			1	1		1			
338	R6-1L(2S)		36 X 12	3.000						1			
339	R4-7(2M)		24 X 30	5.000						1			
340	R4-7(2M)		24 X 30	5.000						1			
341	D1-65	51ST ST NEXT SIGNAL	54 x 21	7.875			2	1		2			
342	R3-20L(2M)		24 X 36	6.000			1	1		1			
343	R3-20LL(2M)		24 X 36	6.000			1	1		1			
344	R1-1F(2M)		36 X 36			7.460		1					SIGNAL POLE
345	R5-1(2M)		36 X 36	9.000								344	SIGNAL POLE
346	J3-1(2S)		24 X 45	7.500							1		
	M1-6	STH 100	24 X 24										
	M6-4		21 X 21										
347	R1-1F(2M)		36 X 36			7.460		1					SIGNAL POLE
348	R6-3(2M)		30 X 24	5.000								347	SIGNAL POLE. MOUNT ABOVE R1-1F
349	NOT USED												
350	NOT USED												
351	NOT USED												
352	NOT USED												
353	R5-1(2M)		36 X 36	9.000				1					SIGNAL POLE
354	R1-1F(2M)		36 X 36			7.460		1					SIGNAL POLE
355	R6-1L(2S)		36 X 12	3.000				1					SIGNAL POLE
356	R5-1(2M)		36 X 36	9.000				1					SIGNAL POLE
357	R4-7(2M)		24 X 30	5.000				1					SIGNAL POLE
358	R4-7(2M)		24 X 30	5.000				1					SIGNAL POLE
359	R5-1(2M)		36 X 36	9.000				1					LIGHT POLE
360	R1-1F(2M)		36 X 36			7.460		1					SIGNAL POLE

TYPE II PERMANENT SIGNING

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W x H	637.2210 SIGNS TYPE II REFLECTIVE H (SF)	637.2230 SIGNS TYPE II RELFECTIVE F (SF)	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING (SF)	638.3000 REMOVING SMALL SIGN SUPPORTS (EA)	638.2602 REMOVING SIGNS TYPE II (EA)	638.2102 MOVING SIGNS TYPE II (EA)	634.0618 POSTS WOOD 4" X 6" X 18' (EA)	634.0816 POSTS TUBULAR STEEL 2" X 2" X 16' (EA)	MOUNT ON SAME POST AS	
361	R6-1L(2S)		36 X 12	3.000				1					SIGNAL POLE
362	R1-1F(2M)		36 X 36			7.460		1					SIGNAL POLE
363	R6-3(2M)		30 X 24	5.000								362	SIGNAL POLE MOUNT ABOVE R1-1F
364	J3-1(2S)		24 X 45	7.500							1		
	M1-6	STH 100	24 X 24										
	M6-4		21 X 21										
365	R6-1L(2S)		36 X 12	3.000				1					SIGNAL POLE
366	R5-1(2M)		36 X 36	9.000									BACK OF EXISTING SPEED LIMIT SIGN
367	D1-65	N. 51ST ST NEXT SIGNAL	54 x 21	7.875			2	1		2			
368	W11-2(2M)		36 X 36		9.000		1	1		1			
369	W16-7L(2M)		30 X 18		3.750							368	
370	R1-1(2M)		36 X 36	7.460			1	1		1			
371	R4-7(2M)		24 X 30	5.000			1	1		1			
372	R3-4(2M)		36 X 36	9.000								371	
373	NONE	TIME OF DAY PLAQUE							1			371	
374	R6-1L(2S)		36 X 12	3.000			1	1		1			
375	W11-2(2M)		36 X 36		9.000		1	1		1			
376	W16-7L(2M)		30 X 18		3.750							375	
377	W11-2(2M)		36 X 36		9.000		1	1		1			
378	W16-7L(2M)		30 X 18		3.750							377	
379	R1-1(2M)		36 X 36	7.460			1	1		1			
380	R6-2L						1	1					
381	R6-1L(2S)		36 X 12	3.000						1			
382	R4-7(2M)		24 X 30	5.000			1	1		1			
383	R3-4(2M)		36 X 36					1				382	
384	NONE	TIME OF DAY PLAQUE							1			382	
385	W11-2(2M)		36 X 36		9.000		1	1				375	BACK OF 375
386	W16-7R(2M)		30 X 18		3.750							375	BACK OF 375
387	NONE	RIGHT UTRN YIELD TO U TURN					1	1	1				SHEET 3
388	NONE	RIGHT UTRN YIELD TO U TURN					1	1	1				SHEET 3
389	R6-1L(2S)		36 X 12	3.000						1			SHEET 6
390	NONE	76TH STREET						1					

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIES – PERMANENT SIGNING	SHEET:	E

TYPE II PERMANENT SIGNING

2150-00-71 STH 100

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W x H	637.2210 SIGNS TYPE II REFLECTIVE H (SF)	637.2230 SIGNS TYPE II RELFECTIVE F (SF)	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING (SF)	638.3000 REMOVING SMALL SIGN SUPPORTS (EA)	638.2602 REMOVING SIGNS TYPE II (EA)	638.2102 MOVING SIGNS TYPE II (EA)	634.0618 POSTS WOOD 4" X 6" X 18' (EA)	634.0816 POSTS TUBULAR STEEL 2" X 2" X 16' (EA)	MOUNT ON SAME POST AS	
391	W3-3(2M)		36 X 36		9.000								LIGHT POLE SHEET 11
392	M4-20L		24 X 24										MOUNT ON J2-2 ASSEMBLY EXISTING SHEET 13
													COVER THE AHEAD ARROW
393	R4-7						1	1					SHEET 14
394	R6-1R(2S)		36 X 12	3.000						1			SHEET 14
395	R7-1D(2M)		24 X 30	5.000									MOUNT ON UTILITY POLE SHEET 14
396	R4-7						1	1					SHEET 15. REMOVE R3-4 PART OF SIGN # 396
397	R7-1D(2M)		24 X 30	5.000									MOUNT ON LIGHT POLE SHEET 16
398	D1-65	N. 66TH ST NEXT SIGNAL	60 x 21	8.750								207	SHEET 156. MOUNT UNDER # 207
399	NONE	TREE CITY					1	1					SHEET 17
400	D1-1	N. 68TH ST	72 x 15	7.500						2			SHEET 17
401	W11-2						1	1					SHEET 18
402	R9-3A(2S)		18 X 18	2.250							1		SHEET 18 SEE DETAIL
402A	R9-3BL(2S)		18 X 12	1.500								402	SHEET 18 SEE DETAIL
403	R9-3A(2S)		18 X 18	2.250							1		SHEET 18 SEE DETAIL
403A	R9-3BR(2S)		18 X 12	1.500								403	SHEET 18 SEE DETAIL
404	R2-1(2M)	SPEED LIMIT 40	30 X 36	7.500						1			SHEET 18
405	R6-1R(2S)		36 X 12	3.000			1	1		1			SHEET 18
406													
407	D1-2	N. 66TH ST PARK PLAZA CT	90 x 30	18.750						2			SHEET 19
408	W3-3						1	1					SHEET 20
409	W3-3(2M)		36 X 36		9.000					1			SHEET 20
410	R5-2(2S)		24 X 24	4.000			1	1			1		SHEET 21
411	NONE	FINGERBOARD SIGN					2		1	2			SHEET 22. PERMIT SIGN. DO NOT REPLACE
412	D1-2 MODIFIED	N. 55TH ST N. 56TH ST	72 x 36	18.000						2			SHEET 22
413	R3-4								1			337	SHEET 23
414	D1-2 MODIFIED	N. 56TH ST N. 55TH ST	72 x 36	18.000						2			SHEET 24
415	D1-65	76TH ST NEXT SIGNAL	54 x 21	7.875						2			
416	M1-94S	100 W BROWN DEER RD	102 x 18	12.750				1					MOUNT ON SIGNAL ARM. BROWN SIGN. SHEET 26
417	M1-94S	100 W BROWN DEER RD	102 x 18	12.750				1					MOUNT ON SIGNAL ARM. BROWN SIGN. SHEET 26
418	M1-94H	N. 85TH ST	66 x 18	8.250									SHEET 7 MOUNT ON SIGNAL ARM
419	D1-2	PARK PLAZA CT N. 66TH ST	90 x 30	18.750						2			SHEET 17
420	M1-94H MOD	N. 51ST ST	78 X 18	9.750				1					MOUNT ON SIGNAL ARM. SHEET 26. BROWN SIGN

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIES – PERMANENT SIGNING	SHEET:	E

TYPE II PERMANENT SIGNING

2150-00-71 STH 100

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W x H	637.2210 SIGNS TYPE II REFLECTIVE H (SF)	637.2230 SIGNS TYPE II RELFECTIVE F (SF)	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING (SF)	638.3000 REMOVING SMALL SIGN SUPPORTS (EA)	638.2602 REMOVING SIGNS TYPE II (EA)	638.2102 MOVING SIGNS TYPE II (EA)	634.0618 POSTS WOOD 4" X 6" X 18' (EA)	634.0816 POSTS TUBULAR STEEL 2" X 2" X 16' (EA)	MOUNT ON SAME POST AS	
421	M1-94H MOD	N. 51ST ST	78 X 18	9.750				1					MOUNT ON SIGNAL ARM. SHEET 26. BROWN SIGN
422	R1-1(2M)		36 X 36	7.460			1	1		1			SHEET 11
423	R1-1(2M)		36 X 36	7.460			1	1		1			SHEET 12
424	R10-15R(2M)		30 X 30	6.250						1			SHEET 12
425	R1-1F(2M)		36 X 36			7.460		1					SIGNAL POLE SHEET 12
426	R1-1F(2M)		36 X 36			7.460		1					SIGNAL POLE. SHEET 7
427	J3-1(2S)		24 X 45								1		SHEET 7
	M1-6	STH 100	24 X 24										
	M6-4		21 X 21										
428	W11-2(2M)		36 X 36		9.000					1			SHEET 15
428A	W16-7L(2M)		30 X 18		3.750							428	SHEET 15
429	W11-2(2M)		36 X 36		9.000		1	1				210	SHEET 16
429A	W16-7R(2M)		30 X 18		3.750							429	SHEET 16
430	R2-6P(2M)		36 X 24	6.000									MOUNT UNDER EXISTING S1-1 SHEET 2
431	R2-6P(2M)		36 X 24	6.000									MOUNT UNDER EXISTING S1-1 SHEET 2
432	R2-6P(2M)		36 X 24	6.000									MOUNT UNDER S1-1 SHEET 16
433	R2-6P(2M)		36 X 24	6.000									MOUNT UNDER S1-1 SHEET 16
434	W3-3(2M)		36 X 36		9.000		1	1		1			SHEET 3
435	R5-1(2M)		36 X 36	9.000									SHEET 3 SIGNAL POLE
436	R5-1(2M)		36 X 36	9.000									SHEET 9 SIGNAL POLE
437	W11-2(2M)		36 x 36		9.000					1			SHEET 28
437A	W16-7R(2M)		30 X 18		3.750							437	SHEET 28
438	W11-2 (2M)		36 X 36		9.000							437	SHEET 28
438A	W16-7R(2M)		30 X 18		3.750							437	SHEET 28
439	W11-2(2M)		36 X 36		9.000					1			SHEET 28
439A	W16-7L(2M)		30 X 18		3.750							439	SHEET 28
440	W11-2(2M)		36 X 36		9.000					1			SHEET 28
440A	W16-7L(2M)		30 X 18		3.750							440	SHEET 28
441	R9-3A(2S)		18 X 18	2.250							1		SHEET 14
441A	R9-3BL(2S)		18 X 12	1.500								441	SHEET 14
442	R9-3A(2S)		18 X 18	2.250							1		SHEET 15
442A	R9-3BL(2S)		18 X 12	1.500								442	SHEET 15
443	R9-3A(2S)		18 X 18	2.250							1		SHEET 23
443A	R9-3BL(2S)		18 X 12	1.500								443	SHEET 23
				--	--		--				--	--	--
TOTALS				2088.105	391.250	373.000	99.000	188.000	8	177	20	--	--

SHEET 15 OF 15

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIES – PERMANENT SIGNING	SHEET:	E

FILE NAME : N:\SPO\Operations\Signing\Miscellaneous Quantities\2150-00-71\030501_mq.pptx PLOT DATE : 9 September 2020 PLOT BY : DOTTAH PLOT NAME : 030501_mq.pdf PLOT SCALE : 1:1

3

LIGHTING - REMOVALS

204.9060.S.01 REMOVING LIGHTING UNITS

CATEGORY	STAGE	SYSTEM	DESCRIPTION	LOCATION	OFFSET	204.9060.S.01 REMOVING LIGHTING UNITS	COMMENTS
						EACH	
0010		T-32NW	LIGHT POLE	319+41	234' LT	--	EXISTING LIGHTING UNIT TO REMAIN
			LIGHT POLE	318+87	96' LT	1	--
			LIGHT POLE	316+45	2' LT	--	EXISTING LIGHTING UNIT TO REMAIN
			LIGHT POLE	317+81	11' LT	--	EXISTING LIGHTING UNIT TO REMAIN
			LIGHT POLE	319+09	10' LT	1	--
			LIGHT POLE	319+88	87' LT	1	--
			LIGHT POLE	320+08	9' RT	1	--
			LIGHT POLE	321+44	9' RT	--	EXISTING LIGHTING UNIT TO REMAIN
			LIGHT POLE	335+62	58' LT	--	EXISTING LIGHTING UNIT TO REMAIN
			LIGHT POLE	337+03	12' LT	1	--
			LIGHT POLE	337+75	108' LT	1	--
			LIGHT POLE	338+59	87' LT	1	--
		T-32NW			SUBTOTAL	7	
		T-37NW	LIGHT POLE	337+58	222' RT	1	EXISTING LIGHTING UNIT TO REMAIN
			LIGHT POLE	337+91	82' RT	1	--
			LIGHT POLE	338+57	9' RT	1	--
		T-37NW			SUBTOTAL	3	
0010			TOTALS			10	

3

LIGHTING - CONDUIT AND WIRE

652.0230 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2 1/2-INCH
652.0610 CONDUIT SPECIAL 2 1/2-INCH
SPV.0060.14 METAL WIRING PEDESTAL 4-INCH x 4-INCH x 36-INCH
SPV.0090.05 ELECTRICAL CABLE TYPE 3#6/1#8 XLP
SPV.0090.06 ELECTRICAL CABLE TYPE 3#2/1#8 XLP

CATEGORY	STAGE	SYSTEM	CIRCUIT	FROM	TO	652.0230 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2 1/2-INCH	652.0610 CONDUIT SPECIAL 2 1/2-INCH	SPV.0060.14 METAL WIRING PEDESTAL 4-INCH x 4-INCH x 36-INCH	SPV.0090.05 ELECTRICAL CABLE TYPE 3#6/1#8 XLP	SPV.0090.06 ELECTRICAL CABLE TYPE 3#2/1#8 XLP	COMMENTS
						LF	LF	EACH	LF	LF	
0010		T-32NW	C	316+45	319+41	400	55	--	465	--	SPLICE IN EXISTING METAL PEDESTAL AT POLE
			B	319+41	322+75	445	50	--	--	505	"
		T-32NW			SUBTOTAL	845	105	0	465	505	
		T-37NW	A	337+59	339+88	350	--	--	--	360	SPLICE IN EXISTING METAL PEDESTAL AT POLE
				338+11	339+85	280	--	1	--	350	--
		T-37NW			SUBTOTAL	630	0	1	0	710	
0010			TOTALS			1,475	105	1	465	1,215	

STH 100 & 60TH ST
MILWAUKEE COUNTY
CATEGORY 0010
S40-1125

3

STATE FURNISHED MATERIALS SUMMARY

EACH	DESCRIPTION
1	TRAFFIC SIGNAL CABINET
4	EVP DETECTOR HEADS
2	INSTALL POLES TYPE 10
2	INSTALL POLES TYPE 9 SPECIAL
2	INSTALL POLES TYPE 10 SPECIAL
2	INSTALL MONOTUBE ARMS 15-FT
1	INSTALL MONOTUBE ARMS 35-FT
2	INSTALL MONOTUBE ARMS 40-FT
1	INSTALL MONOTUBE ARMS 45-FT
8	INSTALL LUMINAIRE ARMS STEEL 15-FT
6	LUMINAIRES UTILTY LED C

STATE FURNISHED FOR INFORMATION ONLY

SIGNAL BASE NO.	EVP DETECTOR HEADS EACH
SB19	1
SB8	1
SB12	1
SB1	1
TOTAL	4

REMOVING CONCRETE BASES

SIGNAL BASE NO.	204.0195 REMOVING CONCRETE BASES EACH
CB1	1
SB1	1
SB2	1
SB3	1
SB4	1
SB5	1
SB6	1
SB7	1
SB8	1
SB9	1
SB10	1
SB11	1
SB12	1
SB13	1
SB14	1
TOTAL	15*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN

REMOVE TRAFFIC SIGNALS

LOCATION	204.9105.S.01 REMOVE TRAFFIC SIGNALS L.S.
STH 100 & 60TH STREET	1
TOTAL	1

REMOVE LOOP DETECTOR WIRE AND LEAD-IN CABLE

LOCATION	204.9105.S.06 REMOVING LOOP DETECTOR WIRE & LEAD-IN CABLE L.S.
STH 100 & 60TH STREET	1
TOTAL	1

CONDUIT

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH L.F.	652.0615 CONDUIT SPECIAL 3-INCH L.F.
CB1	PB1		69	
PB1	PB2	22		
PB1	PB5			140
PB2	PB3	26		
PB3	PB4	197		
PB5	SB1		4	
PB5	SB2	18		
PB5	PB6		146	
PB6	SB3	56		
PB6	SB4	51		
PB6	PB7	145		
PB6	PB9			94
PB7	PB8	135		
PB9	SB5	51		
PB9	PB10			46
PB10	SB6		33	
PB10	SB7	145		
PB10	PB11	27		
PB10	PB12			98
PB12	SB8		44	
PB12	SB9	51		
PB12	PB13		170	
PB13	SB10	25		
PB13	SB11	10		
PB13	PB14	5		
PB13	PB17			126
PB14	PB15	33		
PB15	PB16	202		
PB17	SB12		5	
PB17	PB18		180	
PB18	SB13	66		
PB18	SB14	57		
PB18	SB15	50		
PB18	PB19	148		
PB18	PB21			94
PB19	PB20	131		
PB21	SB16	58		
PB21	SB17		42	
PB21	SB18	128		
PB21	PB22	33		
PB21	PB23			140
PB23	SB19		29	
PB23	PB24		172	
PB24	SB20	24		
PB24	SB21	7		
PB24	CB1		60	
TOTAL		1901*	954*	738*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN

STH 100 & 60TH ST
MILWAUKEE COUNTY
CATEGORY 0010
S40-1125

TRAFFIC DETECTOR LOOPS

LOOP NO.	HOME RUN PB	LOCATION**	SIZE (FT)x(FT)	NO. OF TURNS	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.	655.0700 LOOP DETECTOR LEAD IN CABLE L.F.	655.0800 LOOP DETECTOR WIRE L.F.
11	PB22	402+06.8, 0.2' RT	6'X20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	72	223	216
12	PB22	402+34.8, 0.2' RT	6'X20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	68	223	204
21	PB8	406+84.7, 47.1' LT	6'X18'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	66	476	264
22	PB8	406+84.7, 35.1' LT	6'X18'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	88	476	352
23	PB8	406+84.7, 23.1' LT	6'X18'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	114	476	456
24	PB7	405+54.7, 47.1' LT	6'X15'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	64	336	256
25	PB7	405+54.6, 35.1' LT	6'X15'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	92	336	368
26	PB7	405+54.6, 23.1' LT	6'X15'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	114	336	456
31	PB15	402+91.6, 96.9' RT	6'X20'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	114	428	456
32	PB14	402+91.2, 71.7' RT	6'X20'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	114	395	456
41	PB4	402+76.0, 336.4' LT	6'X20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	66	282	198
42	PB3	402+70.2, 115.2' LT	6'X20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	70	85	210
43	PB2	402+70.6, 92.5' LT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	68	59	204
44	PB3	402+80.3, 115.1' LT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	88	85	264
45	PB2	402.80.8, 92.6' LT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	88	59	264

51	PB11	403+81.1, 1.0' LT	6'X20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	74	288	222
52	PB11	403+53.0, 1.1' LT	6'X20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	74	288	222
61	PB20	399+00.5, 47.0' RT	6'X20'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	70	501	280
62	PB20	399+00.3, 35.0' RT	6'X20'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	94	501	376
63	PB20	399+00.1, 23.1' RT	6'X20'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	116	501	464
64	PB19	400+30.4, 46.8' RT	6'X20'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	66	385	264
65	PB19	400+30.3, 34.9' RT	6'X20'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	90	385	360
66	PB19	400+30.1, 22.9' RT	6'X20'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	75	385	300
71	PB3	402+93.4, 115.4'LT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	110	85	330
72	PB2	402+93.6, 92.7' LT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	81	59	243
81	PB16	403+05.3, 328.9' RT	6'X20'	5	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	68	630	340
82	PB15	403+14.0, 97.3' RT	6'X20'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	76	428	304
83	PB14	403.14.1, 71.6' RT	6'X20'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	68	395	272
84	PB15	403.02.4, 97.2' RT	6'X20'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	94	428	376
85	PB14	403.02.3, 71.6' RT	6'X20'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	92	395	368
					TOTAL	2534*	9929*	9345*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN

** LOCATION IS TO FRONT CENTER OF DETECTOR LOOP

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

STH 100 & 60TH ST
MILWAUKEE COUNTY
CATEGORY 0010
S40-1125

PULL BOXES

PULL BOX NO.	LOCATION*	653.0135 PULL BOXES STEEL 24x36-INCH EACH	653.0140 PULL BOXES STEEL 24x42-INCH EACH
PB1	402+58.0, 91.4' LT		1
PB2	402+59.5, 113.6' LT	1	
PB3	402+59.1, 139.4' LT	1	
PB5	403+29.6, 92.0' LT		1
PB6	404+04.3, 58.1' LT		1
PB7	405+49.7, 58.2' LT	1	
PB8	406+84.7, 58.7' LT	1	
PB9	404+04.2, 11.2' LT		1
PB10	404+04.2, 12.0' RT		1
PB11	403+77.5, 12.0' RT	1	
PB12	404+04.2, 61.1' RT		1
PB13	403+26.0, 89.2' RT		1
PB14	403+25.0, 93.8' RT	1	
PB15	403+24.3, 126.3' RT	1	
PB16	403+23.1, 328.8' RT	1	
PB17	402+64.3, 89.5' RT		1
PB18	401+79.4, 59.3' RT		1
PB19	400+31.3, 61.9' RT	1	
PB20	399+01.4, 60.8' RT	1	
PB21	401+78.7, 11.9' RT		1
PB22	402+12.0, 11.1' RT	1	
PB23	401+77.6, 58.2' LT		1
PB24	402+47.0, 91.2' LT		1
	TOTAL	11*	12*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN
* ** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

REMOVE PULL BOXES

PULL BOX NO.	653.0905 REMOVING PULL BOXES EACH
PB1	1
PB2	1
PB3	1
PB5	1
PB6	1
PB7	1
PB8	1
PB9	1
PB10	1
PB11	1
PB12	1
PB13	1
PB14	1
PB15	1
PB16	1
PB17	1
PB19	1
PB20	1
PB21	1
PB22	1
PB23	1
PB24	1
TOTAL	22*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN

CONCRETE BASES

SIGNAL BASE NO.	LOCATION*	654.0101 CONCRETE BASES TYPE 1 EACH	654.0105 CONCRETE BASES TYPE 5 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
CB1	402+46.6, 111.2' LT					1
SB1	403+34.0, 93.0' LT				1	
SB2	403+44.6, 82.0' LT	1				
SB3	403+54.0, 78.9' LT	1				
SB4	403+54.6, 65.5' LT	1				
SB5	403+53.0, 11.0' LT	1				
SB6	403+72.4, 12.2' RT			1		
SB7	405+49.5, 11.8' RT		1			
SB8	403+60.2, 61.4' RT				1	
SB9	403+52.8, 62.1' RT	1				
SB10	403+44.3, 71.5' RT	1				
SB11	403+27.5, 79.0' RT	1				
SB12	402+64.1, 84.7' RT				1	
SB13	402+43.9, 72.1' RT	1				
SB14	402+36.4, 62.7' RT	1				
SB15	402+31.0, 59.8' RT	1				
SB16	402+36.1, 11.0' RT	1				
SB17	402+20.6, 11.4' RT			1		
SB18	400+50.7, 10.3' RT		1			
SB19	402+06.1, 58.1' LT				1	
SB20	402+34.7, 70.5' LT	1				
SB21	402+53.5, 90.6' LT	1				
	TOTAL	13*	2*	2*	4*	1*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN
* ** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

STH 100 & 60TH ST
MILWAUKEE COUNTY
CATEGORY 0010
S40-1125

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG L.F.	655.0270 CABLE TRAFFIC SIGNAL 15-14 AWG L.F.	655.0305 CABLE TYPE UF 2-12 AWG GROUNDED L.F.
CB1	SB1		140		
CB1	SB2	154			
CB1	SB3	292			
CB1	SB4		287		
CB1	SB5	350			
CB1	SB6		371		
CB1	SB7				430
CB1	SB8		447		
CB1	SB9	454			
CB1	SB10	508			
CB1	SB11		493		
CB1	SB12		409		
CB1	SB13	364			
CB1	SB14	355			
CB1	SB15		348		
CB1	SB16	293			
CB1	SB17		277		
CB1	SB18				363
CB1	SB19		178		
CB1	SB20	71			
CB1	SB21			54	
CB1	SB1				140
SB1	SB6				263
SB6	SB7				202
CB1	SB17				277
SB17	SB18				194
SB18	SB12				326
	TOTAL	2841*	2950*	54*	2195*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG L.F.
CB1	SB1	140
SB1	SB2	46
SB2	SB3	198
SB3	SB4	130
SB4	SB5	189
SB5	SB6	147
SB6	SB7	202
SB7	SB8	278
SB8	SB9	119
SB9	SB10	197
SB10	SB11	59
SB11	SB12	118
SB12	SB13	201
SB13	SB14	147
SB14	SB15	131
SB15	SB16	195
SB16	SB17	124
SB17	SB18	194
SB18	SB19	267
SB19	SB20	179
SB20	SB21	55
SB21	CB1	54
PB1	CB1	46
PB5	SB1	24
PB5	SB2	38
PB6	SB4	71
PB9	SB5	71
PB10	SB6	53
PB12	SB8	64
PB13	SB11	30
PB17	SB12	25
PB18	SB15	70
PB21	SB17	62
PB23	SB19	49
PB24	SB21	27
	TOTAL	4000*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG L.F.	655.0270 CABLE TRAFFIC SIGNAL 15-14 AWG L.F.
SB1	HEAD 14		54	
SB1	HEAD 15		42	
SB1	HEAD 17		67	
SB2	HEAD 28	15		
SB2	BUTTON	15		
SB3	BUTTON	15		
SB4	HEAD 5		22	
SB4	HEAD 7		19	
SB4	HEAD 29		15	
SB4	BUTTON		15	
SB5	HEAD 30	15		
SB5	HEAD 31	15		
SB5	BUTTON	15		
SB6	HEAD 6		39	
SB8	HEAD 2		63	
SB8	HEAD 3		52	
SB8	HEAD 4		40	
SB9	HEAD 32	15		
SB9	BUTTON	15		
SB10	HEAD 33	15		
SB10	BUTTON	15		
SB11	HEAD 13		19	
SB11	HEAD 21		22	
SB12	HEAD 19		44	
SB12	HEAD 20		32	
SB12	HEAD 22		57	
SB13	HEAD 34	15		
SB13	BUTTON	15		
SB14	HEAD 23	15		
SB14	BUTTON	15		
SB15	HEAD 1		19	
SB15	HEAD 11		22	
SB16	HEAD 24	15		
SB16	HEAD 25	15		
SB16	BUTTON	15		
SB17	HEAD 12		38	
SB19	HEAD 8		60	
SB19	HEAD 9		49	
SB19	HEAD 10		36	
SB20	HEAD 26	15		
SB20	BUTTON	15		
SB21	HEAD 16			22
SB21	HEAD 18			19
SB21	HEAD 27			15
SB21	BUTTON			15
	TOTAL	285*	826*	71*

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

STH 100 & 60TH ST
MILWAUKEE COUNTY
CATEGORY 0010
S40-1125

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG L.F.
SB1	LUMIN	117
SB6	LUMIN (2)	288
SB7	LUMIN	117
SB12	LUMIN	117
SB17	LUMIN (2)	288
	TOTAL	927*

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL EVP DETECTOR CABLE

FROM	TO	655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE L.F.
CB1	SB19 (HEAD A)	248
CB1	SB8 (HEAD B)	517
CB1	SB12 (HEAD C)	450
CB1	SB1 (HEAD D)	215
	TOTAL	1430*

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

POLES (STATE FURNISHED)

SIGNAL BASE NO.		SPV.0060.35 INSTALL POLES TYPE 10 BLACK EACH	SPV.0060.36 INSTALL POLES TYPE 9 SPECIAL BLACK EACH	SPV.0060.37 INSTALL POLES TYPE 10 SPECIAL BLACK EACH	SPV.0060.38 INSTALL MONOTUBE ARMS 15-FT BLACK EACH	SPV.0060.41 INSTALL MONOTUBE ARMS 35-FT BLACK EACH	SPV.0060.42 INSTALL MONOTUBE ARMS 40-FT BLACK EACH	SPV.0060.43 INSTALL MONOTUBE ARMS 45-FT BLACK EACH	SPV.0060.44 INSTALL LUMINAIRE ARMS STEEL 15-FT BLACK EACH	SPV.0060.58** LUMINAIRES UTILITY LED C BLACK EACH
SB1			1					1	1	1
SB6		1			1				2	2
SB8				1			1			
SB12			1			1			1	1
SB17		1			1				2	2
SB19				1			1			
	TOTAL	2*	2*	2*	2*	1*	2*	1*	6*	6*

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN
** CATEGORY 0110

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1125\S40-1125_mq.pptx PLOT DATE : 11/18/2020 PLOT BY : DOTSHW PLOT NAME : S40-1125_mq.pdf PLOT SCALE : 1:1

POLES (CONTRACTOR FURNISHED) **

SIGNAL BASE NO.	SPV.0060.47 PEDESTAL BASES BLACK EACH	SPV.0060.48 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE BLACK EACH	SPV.0060.49 POLES TYPE 5 ALUMINUM BLACK EACH	SPV.0060.52 TRAFFIC SIGNAL STANDARDS ALUMINUM 10-FT BLACK EACH	SPV.0060.51 TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT BLACK EACH	SPV.0060.53 LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 6-FT BLACK EACH	SPV.0060.57 PEDESTRIAN PUSH BUTTONS BLACK EACH	SPV.0060.58 LUMINAIRES UTILITY LED C BLACK EACH
SB2	1			1			1	
SB3	1			1			1	
SB4	1				1			
SB5	1			1			1	
SB7		1	1			1		1
SB9	1			1			1	
SB10	1			1			1	
SB11	1							
SB13	1			1			1	
SB14	1			1			1	
SB15	1							
SB16	1			1			1	
SB18		1	1			1		1
SB20	1			1			1	
SB21	1				1		1	
TOTAL	13*	2*	2*	9*	2*	2*	10*	2*

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN
** ALL ITEMS IN TABLE ARE CATEGORY 0110

SIGNAL MOUNTING HARDWARE

LOCATION	658.5069.01 SIGNAL MOUNTING HARDWARE L.S.
STH 100 & 60TH STEREET	1
TOTAL	1

TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS

LOCATION	661.0200.01 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS L.S.
STH 100 & 60TH STREET	1
TOTAL	1

TRNSPT & INSTALL STATE FURN TRAFFIC SIGNAL CABINET

LOCATION	SPV.0105.02 TRNSPT & INSTALL STATE FURN TRAFFIC SIGNAL CABINET L.S.
STH 100 & 60TH ST	1
TOTAL	1

TRNSPT TRAFFIC SIGNAL & INTER LIGHTING MATERIALS

LOCATION	SPV.0105.07 TRNSPT TRAFFIC SIGNAL & INTER LIGHTING MATERIALS L.S.
STH 100 & 60TH STT	1
TOTAL	1

FACES **

SIGNAL HEAD NO.	SIGNAL BASE NO.	SPV.0060.54 TRAFFIC SIGNAL FACE 3S 12-INCH BLACK EACH	SPV.0060.55 TRAFFIC SIGNAL FACE 4S 12-INCH BLACK EACH	SPV.0060.56 PEDESTRIAN SIGNAL FACE 16-INCH BLACK EACH
1	SB15	1		
2	SB8	1		
3	SB8	1		
4	SB8	1		
5	SB4		1	
6	SB6		1	
7	SB4	1		
8	SB19	1		
9	SB19	1		
10	SB19	1		
11	SB15		1	
12	SB17		1	
13	SB11	1		
14	SB1	1		
15	SB1	1		
16	SB21		1	
17	SB1		1	
18	SB21	1		
19	SB12	1		
20	SB12	1		
21	SB11		1	
22	SB12		1	
23	SB14			1
24	SB16			1
25	SB16			1
26	SB20			1
27	SB21			1
28	SB2			1
29	SB4			1
30	SB5			1
31	SB5			1
32	SB9			1
33	SB10			1
34	SB13			1
TOTAL		14*	8*	12*

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN ** ALL ITEMS IN TABLE ARE CATEGORY 0110

TRNSPT & INSTAL STATE FURN EVP HEADS

LOCATION	SPV.0105.12 TRNSPT & INSTALL STATE FURN EVP HEADS L.S.
STH 100 & 60TH ST	1
TOTAL	1

STH 100 (W BROWN DEER RD) & 51ST ST
MILWAUKEE COUNTY
CATEGORY 0010
S40-1129

3

STATE FURNISHED MATERIALS SUMMARY

EACH	DESCRIPTION
4	EVP DETECTOR HEADS

STATE FURNISHED FOR INFORMATION ONLY

SIGNAL BASE NO.	EVP DETECTOR HEADS EACH
SB2	1
SB7	1
SB9	1
SB12	1
TOTAL	4

TRAFFIC SIGNAL EVP DETECTOR CABLE

FROM	TO	655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE L.F.
CB1	SB7 (HEAD A)	480
CB1	SB12 (HEAD B)	213
CB1	SB2 (HEAD C)	216
CB1	SB9 (HEAD D)	394
	TOTAL	1303*

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

POLES (CONTRACTOR FURNISHED) **

SIGNAL BASE NO.	SPV.0060.57 PEDESTRIAN PUSH BUTTONS BLACK EACH
SB1	1
SB3	1
SB4	1
SB5	1
SB6	1
SB8	1
SB9	1
SB10	1
SB11	1
SB13	1
TOTAL	10*

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

** CATEGORY 0110

* HEADS AND BUTTONS TO HAVE BLACK HOUSINGS

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIES	SHEET: 441	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1129\S40-1129_mq.pptx PLOT DATE : 10/29/2020 PLOT BY : DOTSHW PLOT NAME : S40-1129_mq.pdf PLOT SCALE : 1:1

STH 100 (W BROWN DEER RD) & 51ST ST
MILWAUKEE COUNTY
CATEGORY 0010
S40-1129

FACES **

SIGNAL HEAD NO.	SIGNAL BASE NO.	SPV.0060.54 TRAFFIC SIGNAL FACE 3S 12-INCH BLACK EACH	SPV.0060.55 TRAFFIC SIGNAL FACE 4S 12-INCH BLACK EACH	SPV.0060.56 PEDESTRIAN SIGNAL FACE 16-INCH BLACK EACH
SB1	13	1	--	--
SB1	21	1	--	--
SB1	24	--	--	1
SB2	19	1	--	--
SB2	22	1	--	--
SB3	1	1	--	--
SB3	11	--	1	--
SB3	25	--	--	1
SB4	12	--	1	--
SB4	26	--	--	1
SB4	27	--	--	1
SB5	20	1	--	--
SB5	23	--	--	1
SB6	28	--	--	1
SB7	8	1	--	--
SB7	9	1	--	--
SB7	10	1	--	--
SB8	16	1	--	--
SB8	18	1	--	--
SB8	29		--	1
SB9	14	1	--	--
SB9	15	1	--	--
SB9	17	1	--	--
SB9	30	--	--	1
SB10	5	--	1	--
SB10	7	1	--	--
SB10	31	--	--	1
SB11	6	--	1	--
SB11	32			1
SB11	33	--	--	1
SB12	2	1		
SB12	3	1		
SB12	4	1		
SB13	34			1
	TOTAL	18*	4*	12*

^ DENOTES SIGNAL HOUSING WITH REFLECTIVE BACKPLATE
* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN
** ALL ITEMS IN TABLE ARE CATEGORY 0110

TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS **

LOCATION	661.0200.06 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS L.S.
STH 100 (W BROWN DEER RD)	1
TOTAL	1

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN
** CATEGORY 0030

REMOVE, TRNSPRT, PAINT AND REINSTALL TRAF SIG AND LIGHT EQUIP *

LOCATION	SPV.0105.15 REMOVE, TRNSPT, PAINT AND REINSTALL TRAF AND LIGHT EQUIP L.S.
STH 100 & 51ST ST	1
TOTAL	1

* CATEGORY 0030

* HEADS AND BUTTONS TO HAVE BLACK HOUSINGS

STH 100 & SERVITE DR
MILWAUKEE COUNTY
CATEGORY 0010
S40-1145

STATE FURNISHED MATERIALS SUMMARY

EACH	DESCRIPTION
1	TRAFFIC SIGNAL CABINET
8	ACCESSIBLE PEDESTRIAN PUSH BUTTON
3	INSTALL POLES TYPE 10
3	INSTALL POLES TYPE 9 SPECIAL
1	INSTALL POLES TYPE 10 SPECIAL
3	INSTALL MONOTUBE ARMS 15-FT
2	INSTALL MONOTUBE ARMS 40-FT
2	INSTALL MONOTUBE ARMS 45-FT

REMOVING CONCRETE BASES

SIGNAL BASE NO.	204.0195 REMOVING CONCRETE BASES EACH
CB1	1
SB1	1
SB2	1
SB3	1
SB4	1
SB5	1
SB6	1
SB7	1
SB8	1
SB9	1
SB11	1
SB12	1
SB13	1
SB14	1
SB15	1
SB16	1
SB17	1
TOTAL	17*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAI

REMOVE TRAFFIC SIGNALS

LOCATION	204.9105.S.02 REMOVE TRAFFIC SIGNALS L.S.
STH 100 & SERVITE DR	1
TOTAL	1

REMOVE LOOP DETECTOR WIRE AND LEAD-IN CABLE

LOCATION	204.9105.S.07 REMOVING LOOP DETECTOR WIRE & LEAD-IN CABLE L.S.
STH 100 & SERVITE DR	1
TOTAL	1

CONDUIT

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH L.F.	652.0605 CONDUIT SPECIAL 2-INCH L.F.	652.0615 CONDUIT SPECIAL 3-INCH L.F.
CB1	PB1		30		
PB1	PB2	156			
PB1	PB4				136
PB2	PB3	140			
PB4	SB1		19		
PB4	PB5	11			
PB4	PB6				96
PB6	SB2		56		
PB6	SB3	59			
PB6	PB7		204		
PB7	SB4	15			
PB7	PB8	6			
PB7	PB11				92
PB8	PB9	28			
PB9	PB10	38			
PB11	SB5		8		
PB11	PB12				134
PB12	PB13			36	
PB12	PB14		116		
PB12	SB6		35		
PB13	SB7	38			
PB13	SB8	24			
PB13	SB9	19			
PB14	PB15	138			
PB14	PB17				174
PB15	PB16	130			
PB17	SB10		54		
PB17	PB18	45			
PB17	PB19				98
PB19	SB11		57		
PB19	SB12	73			
PB19	PB21		272		
PB21	SB13	24			
PB21	SB14	14			
PB21	PB20	2			
PB21	PB22	28			
PB21	PB24				144
PB22	PB23	208			
PB24	SB15		4		
PB24	SB16	24			
PB24	PB25		144		
PB25	SB17	32			
PB25	SB18	25			
PB25	CB1		15		
	TOTAL	1277*	1014*	36*	874*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1145\S40-1145_mq.pptx PLOT DATE : 11/18/2020 PLOT BY : DOTSHW PLOT NAME : S40-1145_mq.pdf PLOT SCALE : 1:1

STH 100 & SERVITE DR
MILWAUKEE COUNTY
CATEGORY 0010
S40-1145

TRAFFIC DETECTOR LOOPS

LOOP NO.	HOME RUN PB	LOCATION**	SIZE (FT)x(FT)	NO. OF TURNS	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.	655.0700 LOOP DETECTOR LEAD IN CABLE L.F.	655.0800 LOOP DETECTOR WIRE L.F.
11	PB5	336+66.5, 3.0' RT	6'X20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	74	103	222
12	PB5	336+94.6, 3.2' RT	6'X20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	74	103	222
21	PB16	341+63.3, 47.3' LT	6'X20'	5	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	70	681	350
22	PB16	341+63.3, 35.0' LT	6'X20'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	94	681	470
23	PB16	341+63.1, 22.6' LT	6'X20'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	122	681	610
24	PB15	340+33.4, 46.8' LT	6'X20'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	72	551	288
25	PB15	340+33.3, 34.5' LT	6'X20'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	96	551	384
26	PB15	340+33.1, 22.1' LT	6'X20'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	122	551	488
31	PB22	337+56.9, 101.2' RT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	114	189	342
32	PB20	337+91.5, 95.4' RT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	116	165	348
41	PB9	337+39.8, 104.3' LT	6'X20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	66	276	198
42	PB8	337+39.6, 76.3' LT	6'X20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	59	248	177
51	PB18	338+52.2, 2.8' LT	6'X20'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	74	422	296
52	PB18	338+30.2, 3.0' LT	6'X20'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	74	422	296

61	PB3	333+54.7, 47.1' RT	6'X15'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	60	320	240
62	PB3	333+54.7, 34.9' RT	6'X15'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	84	320	336
63	PB3	339+54.9, 22.5' RT	6'X15'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	110	320	440
64	PB2	334+94.2, 60.0' RT	6'X6'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	49	180	196
65	PB2	334+94.2, 60.0' RT	6'X6'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	74	180	296
66	PB2	334+94.2, 60.0' RT	6'X6'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	96	180	384
71	PB10	337+58.0, 166.0' LT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	86	314	258
72	PB9	337+65.2, 104.3' LT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	116	276	348
73	PB8	337+64.9, 76.3' LT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	114	248	342
74	PB9	337+52.6, 104.3' LT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	90	276	270
75	PB8	337+52.4, 76.2' LT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	90	248	270
81	PB23	336+91.1, 301.7' RT	6'X15'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	48	397	192
82	PB22	337+80.5, 101.6' RT	6'X20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	70	189	210
83	PB20	337+92.2, 99.8' RT	6'X20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	68	165	204
84	PB22	337+68.5, 101.3' RT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	92	189	276
85	PB20	337+92.2, 99.8' RT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	92	165	276
					TOTAL	2566*	9591*	9229*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN

** LOCATION IS TO FRONT CENTER OF DETECTOR LOOP

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

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1145\S40-1145_mq.pptx PLOT DATE : 11/18/2020 PLOT BY : DOTSHW PLOT NAME : S40-1145_mq.pdf PLOT SCALE : 1:1

3

STH 100 & SERVITE DR
MILWAUKEE COUNTY
CATEGORY 0010
S40-1145

PULL BOXES

PULL BOX NO.	LOCATION*	653.0135 PULL BOXES STEEL 24x36-INCH EACH	653.0140 PULL BOXES STEEL 24x42-INCH EACH
PB1	336+50.5, 58.2' RT		1
PB2	334+94.2, 60.0' RT	1	
PB3	333+54.6, 58.9' RT	1	
PB4	336+51.1, 10.3' LT		1
PB5	336+61.8, 10.2' LT	1	
PB6	336+51.5, 58.4' LT		1
PB7	337+30.6, 93.6' LT		1
PB8	337+30.9, 99.9' LT	1	
PB9	337+31.1, 128.3' LT	1	
PB10	337+30.6, 166.2' LT	1	
PB11	337+76.2, 93.2' LT		1
PB12	338+43.0, 92.6' LT		1
PB13	338+52.1, 57.8' LT	1	
PB14	338+99.1, 76.8' LT		1
PB15	340+33.5, 59.7' LT	1	
PB16	341+63.5, 59.7' LT	1	
PB17	338+98.4, 10.0' RT		1
PB18	338+53.2, 10.5' RT	1	
PB19	338+98.0, 58.8' RT		1
PB20	337+91.5, 95.4' RT	1	
PB21	337+92.2, 99.8' RT		1
PB22	337+90.3, 127.9' RT	1	
PB23	336+98.5, 309.6' RT	1	
PB24	337+17.2, 100.0' RT		1
PB25	336+59.5, 58.3' RT		1
	TOTAL	13*	12*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN
*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

REMOVE PULL BOXES

PULL BOX NO.	653.0905 REMOVING PULL BOXES EACH
PB1	1
PB2	1
PB3	1
PB4	1
PB5	1
PB6	1
PB7	1
PB8	1
PB9	1
PB10	1
PB11	1
PB12	1
PB13	1
PB14	1
PB15	1
TOTAL	15*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN

CONCRETE BASES

SIGNAL BASE NO.	LOCATION*	654.0101 CONCRETE BASES TYPE 1 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
CB1	336+59.2, 63.6' RT				1
SB1	336+71.8, 9.9' LT		1		
SB2	337+07.7, 61.4' LT			1	
SB3	337+10.2, 66.0' LT	1			
SB4	337+31.3, 78.2' LT	1			
SB5	337+76.2, 84.8' LT		1		
SB6	338+20.3, 114.3' LT			1	
SB7	338+14.0, 58.9' LT	1			
SB8	338+28.0, 61.8' LT	1			
SB9	338+33.5, 59.1' LT	1			
SB10	338+45.6, 10.4' RT		1		
SB11	338+41.5, 64.6' RT			1	
SB12	338+25.2, 60.9' RT	1			
SB13	338+00.2, 76.5' RT	1			
SB14	337+89.9, 85.6' RT	1			
SB15	337+19.8, 96.6' RT			1	
SB16	337+06.0, 79.1' RT	1			
SB17	336+90.8, 64.4' RT	1			
SB18	336+84.6, 60.0' RT	1			
	TOTAL	11*	3*	4*	1*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN
* * * FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

STH 100 & SERVITE DR
MILWAUKEE COUNTY
CATEGORY 0010
S40-1145

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG L.F.	655.0305 CABLE TYPE UF 2-12 AWG GROUNDED L.F.
CB1	SB1	140	
CB1	SB2	241	
CB1	SB3	244	
CB1	SB4	318	
CB1	SB5	373	
CB1	SB6	483	
CB1	SB7	538	
CB1	SB8	524	
CB1	SB9	519	
CB1	SB10	508	
CB1	SB11	446	
CB1	SB12	462	
CB1	SB13	261	
CB1	SB14	224	
CB1	SB15	138	
CB1	SB16	144	
CB1	SB17	64	
CB1	SB18	57	
CB1	SB1		140
SB1	SB5		295
CB1	SB15		138
SB15	SB10		414
	TOTAL	5684*	987*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG L.F.
CB1	SB1	140
SB1	SB2	163
SB2	SB3	139
SB3	SB4	216
SB4	SB5	109
SB5	SB6	166
SB6	SB7	149
SB7	SB8	87
SB8	SB9	67
SB9	SB10	326
SB10	SB11	200
SB11	SB12	154
SB12	SB13	305
SB13	SB14	62
SB14	SB15	130
SB15	SB16	52
SB16	SB17	168
SB17	SB18	85
SB18	CB1	57
PB1	CB1	33
PB4	SB1	39
PB6	SB2	76
PB7	SB4	35
PB11	SB5	28
PB12	SB6	55
PB13	SB9	39
PB14	SB6	125
PB17	SB10	74
PB19	SB11	77
PB21	SB14	34
PB24	SB15	24
PB25	CB1	28
	TOTAL	3442*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG L.F.
SB1	HEAD 12	32
SB2	HEAD 8	62
SB2	HEAD 9	25
SB2	HEAD 10	38
SB3	HEAD 24	15
SB3	BUTTON	15
SB4	HEAD 16	22
SB4	HEAD 18	15
SB4	HEAD 25	15
SB4	BUTTON	15
SB5	HEAD 17	39
SB6	HEAD 14	61
SB6	HEAD 15	50
SB7	HEAD 26	15
SB7	BUTTON	15
SB8	HEAD 27	15
SB8	BUTTON	15
SB9	HEAD 5	22
SB9	HEAD 7	15
SB10	HEAD 6	32
SB11	HEAD 2	65
SB11	HEAD 3	53
SB11	HEAD 4	41
SB12	HEAD 28	15
SB12	BUTTON	15
SB13	HEAD 29	15
SB13	BUTTON	15
SB14	HEAD 13	15
SB14	HEAD 21	15
SB15	HEAD 19	43
SB15	HEAD 20	25
SB15	HEAD 22	69
SB16	HEAD 30	15
SB16	BUTTON	15
SB17	HEAD 23	15
SB17	BUTTON	15
SB18	HEAD 1	15
SB18	HEAD 11	22
	TOTAL	1016*

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

3

STH 100 & SERVITE DR
MILWAUKEE COUNTY
CATEGORY 0010
S40-1145

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO		655.0610 ELECTRICAL WIRE LIGHTING 12 AWG L.F.
SB1	LUMIN (2)		288
SB5	LUMIN (2)		288
SB10	LUMIN (2)		288
SB15	LUMIN		117
		TOTAL	981*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN

POLES (STATE FURNISHED)

SIGNAL BASE NO.	SPV.0060.35 INSTALL POLES TYPE 10 EACH	SPV.0060.36 INSTALL POLES TYPE 9 SPCIAL EACH	SPV.0060.37 INSTALL POLES TYPE 10 SPECIAL EACH	SPV.0060.38 INSTALL MONOTUBE ARMS 15-FT EACH	SPV.0060.42 INSTALL MONOTUBE ARMS 40-FT EACH	SPV.0060.43 INSTALL MONOTUBE ARMS 45-FT EACH	SPV.0060.44 INSTALL LUMINAIRE ARMS STEEL 15-FT EACH	659.1125 LUMINAIRES UTILITY LED C EACH
SB1	1			1			2	2
SB2			1		1			
SB5	1			1			2	2
SB6			1		1			
SB10	1			1			2	2
SB11			1			1		
SB15		1				1	1	1
TOTAL	3*	1*	3*	3*	2*	2*	7*	7*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN

POLES (CONTRACTOR FURNISHED)

SIGNAL BASE NO.	657.0100 PEDESTAL BASES EACH	657.0420 TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT EACH	657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT EACH	657.0430 TRAFFIC SIGNAL STANDARDS ALUMINUM 10-FT EACH	658.0500 PEDESTRIAN PUSH BUTTONS EACH
SB3	1			1	1
SB4	1	1			1
SB7	1			1	1
SB8	1			1	1
SB9	1		1		
SB12	1			1	1
SB13	1			1	1
SB14	1		1		
SB16	1			1	1
SB17	1			1	1
SB18	1		1		
TOTAL	11*	1*	3*	7*	8*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN

STH 100 & SERVITE DR
MILWAUKEE COUNTY
CATEGORY 0010
S40-1145

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	658.0416 PEDESTRIAN SIGNAL FACE 16-INCH EACH
1	SB18	1		
2	SB11	1		
3	SB11	1		
4	SB11	1		
5	SB9		1	
6	SB10		1	
7	SB9	1		
8	SB2	1		
9	SB2	1		
10	SB2	1		
11	SB18		1	
12	SB1		1	
13	SB14	1		
14	SB6	1		
15	SB6	1		
16	SB4		1	
17	SB5		1	
18	SB4	1		
19	SB15	1		
20	SB15	1		
21	SB14	1		
22	SB15	1		
23	SB17			1
24	SB3			1
25	SB4			1
26	SB7			1
27	SB8			1
28	SB12			1
29	SB13			1
30	SB16			1
	TOTAL	16*	6*	8*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN

SIGNAL MOUNTING HARDWARE

LOCATION	658.5069.02 SIGNAL MOUNTING HARDWARE L.S.
STH 100 & SERVITE DR	1
TOTAL	1

TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS

LOCATION	661.0200.02 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS L.S.
STH 100 & SERVITE DR	1
TOTAL	1

TRNSPT & INSTALL (APS) PUSH BTN ASSEM

SIGNAL BASE NO.	SPV.0060.45 TRNSPT & INSTALL (APS) PUSH BTN ASSEM EACH
SB2	1
SB4	1
SB7	1
SB8	1
SB12	1
SB13	1
SB16	1
SB17	1
TOTAL	8

TRNSPT & INSTALL STATE FURN TRAFFIC SIG CABINET

LOCATION	SPV.0105.03 TRNSPT & INSTALL STATE FURN TRAFFIC SIG CABINET L.S.
STH 100 & SERVITE DR	1
TOTAL	1

TRNSPT TRAFFIC SIGNAL & INTER LIGHTING MATERIAL

LOCATION	SPV.0105.08 TRNSPT TRAFFIC SIGNAL & INTER LIGHTING MATERIAL L.S.
STH 100 & SERVITE DR	1
TOTAL	1

3

STH 100 & 85TH STREET
MILWAUKEE COUNTY
CATEGORY 0010
S40-1146

STATE FURNISHED MATERIALS SUMMARY

EACH	DESCRIPTION
1	TRAFFIC SIGNAL CABINET
4	INSTALL POLES TYPE 10
2	INSTALL POLES TYPE 9 SPECIAL
2	INSTALL MONOTUBE ARMS 15-FT
1	INSTALL MONOTUBE ARMS 20-FT
1	INSTALL MONOTUBE ARMS 30-FT
1	INSTALL MONOTUBE ARMS 35-FT
1	INSTALL MONOTUBE ARMS 45-FT

REMOVING CONCRETE BASES

SIGNAL BASE NO.	204.0195 REMOVING CONCRETE BASES EACH
CB1	1
SB1	1
SB2	1
SB3	1
SB4	1
SB5	1
SB6	1
SB7	1
SB8	1
SB9	1
SB10	1
SB11	1
SB12	1
SB13	1
TOTAL	14*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN

REMOVE TRAFFIC SIGNALS

LOCATION	204.9105.S.03 REMOVE TRAFFIC SIGNALS L.S.
STH 100 & 85TH STREET	1
TOTAL	1

REMOVE LOOP DETECTOR WIRE AND LEAD-IN CABLE

LOCATION	204.9105.S.08 REMOVING LOOP DETECTOR WIRE & LEAD-IN CABLE L.S.
STH 100 & 85TH STREET	1
TOTAL	1

CONDUIT

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH L.F.	652.0615 CONDUIT SPECIAL 3-INCH L.F.
CB1	PB1		30	
PB1	PB2		88	
PB2	PB3	8		
PB3	SB1	59		
PB3	SB2	19		
PB2	PB4			86
PB4	SB3		21	
PB4	PB5		132	
PB5	SB4	19		
PB5	SB5	13		
PB5	PB6		132	
PB6	PB7	122		
PB6	PB9			140
PB7	PB8	130		
PB9	SB6		58	
PB9	PB10	51		
PB9	PB11			96
PB11	PB12		104	
PB12	SB8	5		
PB12	PB13			98
PB13	SB7		28	
PB13	SB9	17		
PB13	SB10	7		
PB13	PB14	6		
PB13	PB15			110
PB15	SB11		10	
PB15	SB12	17		
PB15	PB16		238	
PB16	SB13	95		
PB16	SB14	87		
PB16	PB17	113		
PB16	PB18			136
PB18	SB15		75	
PB18	PB19	68		
PB18	PB20	245		
PB18	PB21			96
PB21	SB16		99	
PB21	PB22		152	
PB22	CB1		30	
TOTAL		1081*	1197*	762*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN

3

STH 100 & 85TH STREET
MILWAUKEE COUNTY
CATEGORY 0010
S40-1146

TRAFFIC DETECTOR LOOPS

LOOP NO.	HOME RUN PB	LOCATION**	SIZE (FT)x(FT)	NO. OF TURNS	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.	655.0700 LOOP DETECTOR LEAD IN CABLE L.F.	655.0800 LOOP DETECTOR WIRE L.F.
11	PB10	318+88.0, 1.3' RT	6'X20'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	72	353	288
12	PB10	319+16.1, 1.6' RT	6'X20'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	76	353	304
21	PB20	323+38.9, 47.3' LT	6'X6'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	92	382	460
22	PB20	323+38.8, 34.3' LT	6'X6'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	66	382	330
23	PB20	323+38.7, 22.0' LT	6'X6'	5	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	40	382	200
24	PB17	322+09.0, 48.8' LT	6'X6'	5	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	38	319	190
25	PB17	322+08.9, 35.8' LT	6'X6'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	64	319	320
26	PB17	322+08.8, 23.5' LT	6'X6'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	90	319	450
41	PB14	319+45.5, 98.3' LT	6'X20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	68	285	204
42	PB14	319+45.2, 75.8' LT	6'X20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	68	285	204
43	PB14	319+56.0, 98.2' LT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	90	285	270
44	PB14	319+55.7, 75.6' LT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	90	285	270

3

51	PB19	320+30.0, 2.4' LT	6'X20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	70	111	210
52	PB19	320+02.0, 2.3' LT	6'X20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	72	111	216
61	PB8	315+86.0, 48.6' RT	6'X20'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	68	484	272
62	PB8	315+86.2, 35.7' RT	6'X20'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	94	484	376
63	PB8	315+86.3, 23.3' RT	6'X20'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	120	484	480
64	PB7	317+16.0, 48.6' RT	6'X6'	5	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	38	354	190
65	PB7	317+16.2, 35.7' RT	6'X6'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	64	354	320
66	PB7	317+16.3, 23.3' RT	6'X6'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	90	354	450
81	PB3	319+70.0, 97.2' RT	4'X20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	64	65	192
82	PB3	319+70.3, 74.3' RT	4'X20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	64	65	192
83	PB3	319+62.6, 97.1' RT	4'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	80	65	240
84	PB3	319+62.8, 74.2' RT	4'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	80	65	240
					TOTAL	1758*	6945*	6868*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN

** LOCATION IS TO FRONT CENTER OF DETECTOR LOOP

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

3

STH 100 & 85TH STREET
MILWAUKEE COUNTY
CATEGORY 0010
S40-1146

PULL BOXES

PULL BOX NO.	LOCATION*	653.0135 PULL BOXES STEEL 24x36-INCH EACH	653.0140 PULL BOXES STEEL 24x42-INCH EACH
PB1	319+98.8, 65.5' RT		1
PB2	319+80.7, 104.2' RT		1
PB3	319+80.096.1' RT	1	
PB4	319+37.0, 103.7' RT		1
PB5	319+04.0, 58.3' RT		1
PB6	318+37.6, 58.7' RT		1
PB7	317+15.9, 58.9' RT	1	
PB8	315+85.9, 59.4' RT	1	
PB9	318+38.4, 11.8' LT		1
PB10	318+89.0, 11.2' LT	1	
PB11	318+38.9, 59.3' LT		1
PB12	318+84.8, 92.1' LT		1
PB13	319+34.1, 91.5' LT		1
PB14	319+34.2, 97.4' LT	1	
PB15	319+89.6, 91.3' LT		1
PB16	320+96.0, 58.9' LT		1
PB17	322+09.3, 58.7' LT	1	
PB18	320+95.2, 12.0' RT		1
PB19	320+27.2, 8.8' RT	1	
PB20	323+38.8, 10.7' LT	1	
PB21	320+94.7, 57.5' RT		1
PB22	320+18.7, 64.6' RT		1
	TOTAL	8*	14*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN
* * * FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

REMOVE PULL BOXES

PULL BOX NO.	653.0905 REMOVING PULL BOXES EACH
PB1	1
PB2	1
PB3	1
PB4	1
PB5	1
PB6	1
PB7	1
PB8	1
PB9	1
PB10	1
PB11	1
PB12	1
PB13	1
PB14	1
PB15	1
PB16	1
PB17	1
PB19	1
TOTAL	18*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN

CONCRETE BASES

SIGNAL BASE NO.	LOCATION*	654.0101 CONCRETE BASES TYPE 1 EACH	654.0105 CONCRETE BASES TYPE 5 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
CB1	320+08.8, 63.6' RT					1
SB1	319+92.1, 62.8' RT	1				
SB2	319+79.2, 77.4' RT	1				
SB3	319+37.8, 82.8' RT			1		
SB4	319+21.7, 64.7' RT	1				
SB5	319+15.9, 64.2' RT	1				
SB6	318+96.2, 10.4' LT			1		
SB7	319+22.9, 65.5' LT				1	
SB8	318+83.2, 87.4' LT		1			
SB9	319+29.8, 75.3' LT	1				
SB10	319+33.8, 84.4' LT	1				
SB11	319+89.0, 81.5' LT			1		
SB12	319+91.5, 74.9' LT	1				
SB13	320+00.3, 65.1' LT	1				
SB14	320+09.1, 58.2' LT	1				
SB15	320+20.2, 10.2' RT			1		
SB16	319+95.6, 57.4' RT				1	
	TOTAL	9*	1*	4*	2*	1*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN
* * * FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

STH 100 & 85TH STREET
MILWAUKEE COUNTY
CATEGORY 0010
S40-1146

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG L.F.	655.0305 CABLE TYPE UF 2-12 WAG GROUNDED L.F.
CB1	SB1	180		
CB1	SB2		140	
CB1	SB3		177	
CB1	SB4	257		
CB1	SB5		251	
CB1	SB6		464	
CB1	SB7		411	
CB1	SB8			453
CB1	SB9	400		
CB1	SB10		390	
CB1	SB11		422	
CB1	SB12	429		
CB1	SB13	372		
CB1	SB14		364	
CB1	SB15		268	
CB1	SB16		228	
CB1	SB3			177
SB3	SB6			353
SB6	SB8			219
CB1	SB15			268
SB15	SB11			328
	TOTAL	1638*	3115*	1798*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG L.F.
CB1	SB1	156
SB1	SB2	126
SB2	SB3	147
SB3	SB4	146
SB4	SB5	56
SB5	SB6	263
SB6	SB7	307
SB7	SB8	122
SB8	SB9	111
SB9	SB10	48
SB10	SB11	114
SB11	SB12	51
SB12	SB13	271
SB13	SB14	206
SB14	SB15	270
SB15	SB16	262
SB16	CB1	228
PB1	CB1	33
PB2	SB2	63
PB3	SB3	124
PB4	SB5	115
PB5	SB5	33
PB9	SB6	78
PB10	SB6	145
PB11	SB7	166
PB12	SB7	113
PB14	SB11	123
PB15	SB14	140
PB18	SB15	95
PB21	CB1	125
	TOTAL	4237*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG L.F.
SB1	BUTTON	15	
SB2	HEAD 13		15
SB3	HEAD 17		41
SB3	HEAD 18		31
SB4	HEAD 19	15	
SB4	BUTTON	15	
SB5	HEAD 1		15
SB5	HEAD 11		22
SB6	HEAD 12		33
SB7	HEAD 8		66
SB7	HEAD 9		54
SB7	HEAD 10		42
SB7	HEAD 20		15
SB7	BUTTON		15
SB9	HEAD 21	15	
SB9	BUTTON	15	
SB10	HEAD 16		15
SB11	HEAD 14		55
SB11	HEAD 15		43
SB12	HEAD 22	15	
SB12	BUTTON	15	
SB13	HEAD 23	15	
SB13	BUTTON	15	
SB14	HEAD 5		22
SB14	HEAD 7		15
SB15	HEAD 6		34
SB16	HEAD 2		58
SB16	HEAD 3		46
SB16	HEAD 4		15
SB16	HEAD 24		15
	TOTAL	135*	667*

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

3

STH 100 & 85TH STREET
MILWAUKEE COUNTY
CATEGORY 0010
S40-1146

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG L.F.
SB3	LUMIN	144
SB6	LUMIN (2)	288
SB8	LUMIN	117
SB11	LUMIN	144
SB15	LUMIN (2)	288
	TOTAL	981*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN

POLES (STATE FURNISHED)

SIGNAL BASE NO.	SPV.0060.35 INSTALL POLES TYPE 10 EACH	SPV.0060.37 INSTALL POLES TYPE 10 SPECIAL EACH	SPV.0060.38 INSTALL MONOTUBE ARMS 15-FT EACH	SPV.0060.39 INSTALL MONOTUBE ARMS 20-FT EACH	SPV.0060.40 INSTALL MONOTUBE ARMS 30-FT EACH	SPV.0060.41 INSTALL MONOTUBE ARMS 35-FT EACH	SPV.0060.43 INSTALL MONOTUBE ARMS 45-FT EACH	SPV.0060.44 INSTALL LUMINAIRE ARMS STEEL 15-FT EACH	658.0500 PEDESTRIAN PUSH BUTTONS EACH	659.1125 LUMINAIRES UTILITY LED C EACH
SB3	1			1				1		1
SB6	1		1					2		2
SB7		1					1		1	
SB11	1				1			1		1
SB15	1		1					2		2
SB16		1				1				
TOTAL	4*	2*	2*	1*	1*	1*	1*	6*	1*	6*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN

POLES (CONTRACTOR FURNISHED)

SIGNAL BASE NO.	657.0100 PEDESTAL BASES EACH	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	657.0322 POLES TYPE 5 ALUMINUM EACH	657.0405 TRAFFIC SIGNAL STANDARDS ALUMINUM 3.5-FT EACH	657.0430 TRAFFIC SIGNAL STANDARDS ALUMINUM 10-FT EACH	657.0610 LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 6-FT EACH	658.0500 PEDESTRIAN PUSH BUTTONS EACH	659.1125 LUMINAIRES UTILITY LED C EACH
SB1	1			1			1	
SB2	1							
SB4	1				1		1	
SB5	1							
SB8		1	1			1		1
SB9	1				1		1	
SB10	1							
SB12	1				1		1	
SB13	1				1		1	
SB14	1							
TOTAL	9*	1*	1*	1*	4*	1*	5*	1*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN

STH 100 & 85TH STREET
MILWAUKEE COUNTY
CATEGORY 0010
S40-1146

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	658.0416 PEDESTRIAN SIGNAL FACE 16-INCH EACH
1	SB5	1		
2	SB16	1		
3	SB16	1		
4	SB16	1		
5	SB14		1	
6	SB15		1	
7	SB14	1		
8	SB7	1		
9	SB7	1		
10	SB7	1		
11	SB5		1	
12	SB6		1	
13	SB2	1		
14	SB11	1		
15	SB11	1		
16	SB10	1		
17	SB3	1		
18	SB3	1		
19	SB4			1
20	SB7			1
21	SB9			1
22	SB12			1
23	SB13			1
24	SB16			1
	TOTAL	14*	4*	6*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN

SIGNAL MOUNTING HARDWARE

LOCATION	658.5069.03 SIGNAL MOUNTING HARDWARE L.S.
STH 100 & 85TH STREET	1
TOTAL	1

TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS

LOCATION	661.0200.03 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS L.S.
STH 100 & 85TH STREET	1
TOTAL	1

TRNSPT & INSTALL STATE FURN TRAFFIC SIGNAL CABINET

LOCATION	SPV.0105.04 TRNSPT & INSTALL STATE FURN TRAFFIC SIGNAL CABINET L.S.
STH 100 & 85TH ST	1
TOTAL	1

TRNSPT TRAFFIC SIGNAL & INTER LIGHTING MATERIALS

LOCATION	SPV.0105.09 TRNSPT TRAFFIC SIGNAL & INTERSECTION LIGHTING MATERIALS L.S.
STH 100 & 85TH ST	1
TOTAL	1

3

STH 100 & 91ST
MILWAUKEE COUNTY
CATEGORY 0010
S40-1148

REMOVING CONCRETE BASES

SIGNAL BASE NO.	204.0195 REMOVING CONCRETE BASES EACH
SB12	1
TOTAL	1*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAI

CONDUIT

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.
PB17	SB12	4
	TOTAL	4*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN

CONCRETE BASES

SIGNAL BASE NO.	LOCATION*	654.0101 CONCRETE BASES TYPE 1 EACH
SB12	297+37.1, 63.7' LT	1
	TOTAL	1*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN
*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG L.F.
CB1	SB12	240
	TOTAL	240*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG L.F.
SB11	SB12	93
SB12	SB13	75
PB17	SB12	24
	TOTAL	192

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG L.F.
SB12	HEAD 5	22	
SB12	HEAD 7		19
SB12	HEAD 25		15
	TOTAL	22*	34*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN

POLES (CONTRACTOR FURNISHED)

SIGNAL BASE NO.	657.0100 PEDESTAL BASES EACH	657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT EACH	658.0500 PEDESTRIAN PUSH BUTTONS EACH
SB12	1	1	1
TOTAL	1	1	1

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	658.0416 PEDESTRIAN SIGNAL FACE 16-INCH EACH
5	SB12		1	
7	SB12	1		
25	SB12			1
	TOTAL	1	1	1

SIGNAL MOUNTING HARDWARE

LOCATION	658.5069.06 SIGNAL MOUNTING HARDWARE L.S.
STH 100 & 91ST STREET	1
TOTAL	1

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1148\S40-1148_mq.pptx PLOT DATE : 10/29/2020 PLOT BY : DOTSHW PLOT NAME : S40-1148_mq.pdf PLOT SCALE : 1:1

STH 100 & 64TH STREET
MILWAUKEE COUNTY
CATEGORY 0010
S40-1180

STATE FURNISHED MATERIALS SUMMARY

EACH	DESCRIPTION
1	TRAFFIC SIGNAL CABINET
4	EVP DETECTOR HEADS
4	INSTALL POLES TYPE 10
2	INSTALL POLES TYPE 12
2	INSTALL MONOTUBE ARMS 15-FT
2	INSTALL MONOTUBE ARMS 30-FT
2	INSTALL MONOTUBE ARMS 40-FT

STATE FURNISHED FOR INFORMATION ONLY

SIGNAL BASE NO.	EVP DETECTOR HEADS EACH
SB4	1
SB13	1
SB16	1
SB7	1
TOTAL	4

REMOVING CONCRETE BASES

SIGNAL BASE NO.	204.0195 REMOVING CONCRETE BASES EACH
CB1	1
SB1	1
SB2	1
SB3	1
SB4	1
SB5	1
SB6	1
SB7	1
SB8	1
SB9	1
SB10	1
SB11	1
TOTAL	12*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN

REMOVE TRAFFIC SIGNALS

LOCATION	204.9105.S.04 REMOVE TRAFFIC SIGNALS L.S.
STH 100 & 64TH STREET	1
TOTAL	1

REMOVE LOOP DETECTOR WIRE AND LEAD-IN CABLE

LOCATION	204.9105.S.09 REMOVING LOOP DETECTOR WIRE & LEAD-IN CABLE L.S.
STH 100 & 64TH STREET	1
TOTAL	1

CONDUIT

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH L.F.	652.0605 CONDUIT SPECIAL 2-INCH L.F.	652.0615 CONDUIT SPECIAL 3-INCH L.F.
CB1	PB1		183		
PB1	SB1	45			
PB1	PB2	150			
PB1	PB4				100
PB2	PB3		136		
PB4	SB2		43		
PB4	PB5	18			
PB4	SB3	103			
PB4	PB6				138
PB6	SB4		6		
PB6	SB5	46			
PB6	PB7		196		
PB7	SB6	8			
PB7	PB8	21			
PB7	PB9				106
PB9	SB7		7		
PB9	SB8	14			
PB9	PB10		148		
PB10	SB9	47			
PB10	PB11	153			
PB11	PB12	131			
PB10	PB13				166
PB13	SB11	111			
PB13	SB12		30		
PB13	PB14	24			
PB14	SB10			37	
PB13	PB15				94
PB15	SB13		33		
PB15	PB16		150		
PB16	SB14	17			
PB16	SB15	4			
PB16	PB17	18			
PB17	PB18	159			
PB16	PB19				122
PB19	SB16		7		
PB19	CB1		30		
TOTAL		1069*	969*	37*	726*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN

3

TRAFFIC DETECTOR LOOPS

LOOP NO.	HOME RUN PB	LOCATION**	SIZE (FT)x(FT)	NO. OF TURNS	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.	655.0700 LOOP DETECTOR LEAD IN CABLE L.F.	655.0800 LOOP DETECTOR WIRE L.F.
11	PB5	388+75.2, 0.9' RT	6'X20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	70	143	210
12	PB5	389+03.1, 0.8' RT	6'X20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	68	143	204
21	PB12	393+47.7, 46.6' LT	6'X20'	5	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	68	594	340
22	PB12	393+47.8, 35.1' LT	6'X20'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	92	594	460
23	PB12	393+48.0, 23.2' LT	6'X20'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	116	594	580
24	PB11	392+17.7, 46.9' LT	6'X18'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	90	443	360
25	PB11	392+17.8, 35.4' LT	6'X18'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	114	443	456
26	PB11	392+18.0, 23.5' LT	6'X18'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	138	443	552
41	PB8	389+47.7, 110.0' LT	6'X20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	64	313	192
42	PB8	389+48.2, 86.7' LT	6'X20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	64	313	192
51	PB14	390+43.5, 1.3' LT	6'X20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	72	231	216
52	PB14	390+16.4, 1.6' LT	6'X20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	74	231	222

61	PB3	385+76.8,46.4' RT	6'X15'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	66	374	264
62	PB3	385+76.6, 34.8' RT	6'X15'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	88	374	352
63	PB3	385+76.5, 22.9' RT	6'X15'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	112	374	448
64	PB2	387+06.9, 46.7' RT	6'X6'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	47	225	188
65	PB2	387+06.7, 35.1' RT	6'X6'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	71	225	284
66	PB2	387+06.6, 23.3' RT	6'X6'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	97	225	388
71	PB8	389+59.6, 110.1' LT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	86	313	258
72	PB8	389+59.9, 86.5' LT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	86	313	258
81	PB18	389+70.9, 252.9' RT	6'X6'	5	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	31	262	155
82	PB17	389+77.1, 99.4' RT	6'X20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	76	103	228
83	PB17	389+77.1, 71.6' RT	6'X20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	76	103	228
84	PB17	389+66.1, 99.1' RT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	98	103	294
85	PB17	389+66.4, 71.8' RT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	96	103	288
					TOTAL	2060*	7582*	7617*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN

** LOCATION IS TO FRONT CENTER OF DETECTOR LOOP

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

STH 100 & 64TH STREET
MILWAUKEE COUNTY
CATEGORY 0010
S40-1180

PULL BOXES

PULL BOX NO.	LOCATION*	653.0135 PULL BOXES STEEL 24x36-INCH EACH	653.0140 PULL BOXES STEEL 24x42-INCH EACH
PB1	388+62.5, 61.4' RT		1
PB2	387+12.9, 61.0' RT	1	
PB3	385+77.0, 60.8' RT	1	
PB4	388+61.7, 11.5' RT		1
PB5	388+79.9, 11.4' RT	1	
PB6	388+60.6, 47.8' LT		1
PB8	389+39.4, 108.1' LT	1	
PB9	399+92.2, 87.7' LT		1
PB10	390+63.9, 71.2' LT		1
PB11	392+17.4, 71.4' LT	1	
PB12	393+47.5, 58.1' LT	1	
PB13	390+65.2, 11.9' RT		1
PB14	390+41.6, 11.7' RT		1
PB15	390+66.0, 59.1' RT		1
PB16	389+93.0, 77.0' RT		1
PB17	389+91.7, 94.7' RT	1	
PB18	389+80.5, 525.9' RT	1	
PB19	389+32.2, 78.0' RT		1
	TOTAL	8*	10*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN
* * * FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

REMOVE PULL BOXES

PULL BOX NO.	653.0905 REMOVING PULL BOXES EACH
PB1	1
PB2	1
PB3	1
PB4	1
PB5	1
PB6	1
PB7	1
PB8	1
PB9	1
PB10	1
PB11	1
PB12	1
PB13	1
PB14	1
PB15	1
PB16	1
TOTAL	16*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN

CONCRETE BASES

SIGNAL BASE NO.	LOCATION*	654.0101 CONCRETE BASES TYPE 1 EACH	654.0105 CONCRETE BASES TYPE 5 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
CB1	389+22.5, 74.3' RT					1
SB1	389+07.1, 62.0' RT	1				
SB2	389+04.4, 11.1' RT			1		
SB3	387+58.4, 11.7' RT		1			
SB4	388+54.8, 58.0' LT				1	
SB5	389+06.3, 58.8' LT	1				
SB6	389+33.8, 82.0' LT	1				
SB7	389+99.3, 86.5' LT			1		
SB8	390+07.1, 80.4' LT	1				
SB9	390+17.2, 71.0' LT	1				
SB10	390+10.6, 9.2' LT	1				
SB11	391+75.8, 10.7' RT		1			
SB12	390+36.3, 12.1' RT			1		
SB13	390+33.5, 59.6' RT				1	
SB14	390+03.3, 63.2' RT	1				
SB15	389+93.1, 72.9' RT	1				
SB16	389+32.2, 78.0' RT			1		
	TOTAL	8*	2*	4*	2*	1*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN
* * * FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

STH 100 & 64TH STREET
MILWAUKEE COUNTY
CATEGORY 0010
S40-1180

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG L.F.	655.0305 CABLE TYPE UF 2-12 AWG GROUNDED L.F.
CB1	SB1		133	
CB1	SB2		197	
CB1	SB3			257
CB1	SB4		245	
CB1	SB5	285		
CB1	SB6		361	
CB1	SB7		429	
CB1	SB8	436		
CB1	SB9		414	
CB1	SB10	345		
CB1	SB11			379
CB1	SB12		298	
CB1	SB13		238	
CB1	SB14	131		
CB1	SB15		118	
CB1	SB16		44	
CB1	SB3			197
SB3	SB2			342
CB1	SB16			44
SB16	SB12			292
SB12	SB7			250
	TOTAL	1197*	2477*	1761*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG L.F.
CB1	SB1	133
SB1	SB2	178
SB2	SB3	170
SB3	SB4	218
SB4	SB5	76
SB5	SB6	199
SB6	SB7	111
SB7	SB8	45
SB8	SB9	173
SB9	SB10	247
SB10	SB11	212
SB11	SB12	165
SB12	SB13	150
SB13	SB14	165
SB14	SB15	45
SB15	SB16	112
SB16	CB1	44
PB1	CB1	84
PB4	SB2	63
PB6	SB4	26
PB7	SB6	28
PB9	SB7	27
PB10	SB9	67
PB13	SB12	50
PB14	SB12	90
PB15	SB13	53
PB16	SB15	24
PB19	CB1	33
	TOTAL	2988*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON P

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG L.F.
SB1	HEAD 1		19
SB1	HEAD 11		22
SB1	HEAD 21		15
SB1	BUTTON		15
SB2	HEAD 12		39
SB2	HEAD 22		15
SB2	HEAD 23		15
SB2	BUTTON		15
SB4	HEAD 8		60
SB4	HEAD 9		48
SB4	HEAD 10		36
SB5	HEAD 24	15	
SB5	BUTTON	15	
SB6	HEAD 14		15
SB6	HEAD 16		15
SB6	HEAD 25		15
SB6	BUTTON		15
SB7	HEAD 15		50
SB8	HEAD 26	15	
SB8	BUTTON	15	
SB9	HEAD 5		22
SB9	HEAD 7		19
SB9	HEAD 27		15
SB9	BUTTON		15
SB10	HEAD 28	15	
SB10	HEAD 29	15	
SB10	BUTTON	15	
SB12	HEAD 6		39
SB13	HEAD 2		62
SB13	HEAD 3		50
SB13	HEAD 4		38
SB14	HEAD 30	15	
SB14	BUTTON	15	
SB15	HEAD 13		15
SB15	HEAD 19		22
SB15	HEAD 31		15
SB15	BUTTON		15
SB16	HEAD 17		51
SB16	HEAD 18		25
SB16	HEAD 20		40
SB16	HEAD 32		15
SB16	BUTTON		15
	TOTAL	135*	882*

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

3

STH 100 & 64TH STREET
MILWAUKEE COUNTY
CATEGORY 0010
S40-1180

3

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO		655.0610 ELECTRICAL WIRE LIGHTING 12 AWG L.F.
SB2	LUMIN (2)		288
SB3	LUMIN		117
SB7	LUMIN		144
SB11	LUMIN		117
SB12	LUMIN (2)		288
SB16	LUMIN		144
		TOTAL	1098*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL EVP DETECTOR CABLE

FROM	TO		655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE L.F.
CB1	SB4 (HEAD A)		315
CB1	SB13 (HEAD B)		308
CB1	SB16 (HEAD C)		104
CB1	SB7 (HEAD D)		489
		TOTAL	1216*

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

POLES (STATE FURNISHED)

SIGNAL BASE NO.	SPV.0060.35 INSTALL POLES TYPE 10 BLACK EACH	SPV.0060.37 INSTALL POLES TYPE 10 SPECIAL BLACK EACH	SPV.0060.38 INSTALL MONOTUBE ARMS 15-FT BLACK EACH	SPV.0060.40 INSTALL MONOTUBE ARMS 30-FT BLACK EACH	SPV.0060.42 INSTALL MONOTUBE ARMS 40-FT BLACK EACH	SPV.0060.44 INSTALL LUMINAIRE ARMS STEEL 15-FT BLACK EACH	SPV.0060.57** PEDESTRIAN PUSH BUTTONS BLACK EACH	SPV.0060.58** LUMINAIRES UTILITY LED C BLACK EACH
SB2	1		1			2	1	2
SB4		1			1			
SB7	1			1		1		1
SB12	1		1			2		2
SB13		1			1			
SB16	1			1		1		1
TOTAL	4*	2*	2*	2*	2*	6*	1*	6*

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN
** CATEGORY 0110

POLES (CONTRACTOR FURNISHED) **

SIGNAL BASE NO.	SPV.0060.47 PEDESTAL BASES BLACK EACH	SPV.0060.48 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE BLACK EACH	SPV.0060.49 POLES TYPE 5 ALUMINUM BLACK EACH	SPV.0060.50 TRAFFIC SIGNAL STANDARDS ALUMINUM 3.5-FT BLACK EACH	SPV.0060.52 TRAFFIC SIGNAL STANDARDS ALUMINUM 10-FT BLACK EACH	SPV.0060.53 LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 6-FT BLACK EACH	SPV.0060.57 PEDESTRIAN PUSH BUTTONS BLACK EACH	SPV.0060.58 LUMINAIRES UTILITY LED C BLACK EACH
SB1	1				1		1	
SB3		1	1			1		1
SB5	1				1		1	
SB6	1						1	
SB8	1			1			1	
SB9	1						1	
SB10	1				1		1	
SB11		1	1			1		1
SB14	1				1		1	
SB15	1							
TOTAL	8*	2*	2*	1*	4*	2*	7*	2*

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN
** ALL ITEMS IN TABLE ARE CATEGORY 0110

STH 100 & 64TH STREET
MILWAUKEE COUNTY
CATEGORY 0010
S40-1180

FACES **

SIGNAL HEAD NO.	SIGNAL BASE NO.	SPV.0060.54 TRAFFIC SIGNAL FACE 3S 12-INCH BLACK EACH	SPV.0060.55 TRAFFIC SIGNAL FACE 4S 12-INCH BLACK EACH	SPV.0060.56 PEDESTRIAN SIGNAL FACE 16-INCH BLACK EACH
1	SB1	1		
2	SB13	1		
3	SB13	1		
4	SB13	1		
5	SB9		1	
6	SB12		1	
7	SB9	1		
8	SB4	1		
9	SB4	1		
10	SB4	1		
11	SB1		1	
12	SB2		1	
13	SB15	1		
14	SB6	1		
15	SB7	1		
16	SB6	1		
17	SB16	1		
18	SB16	1		
19	SB15		1	
20	SB16		1	
21	SB1			1
22	SB2			1
23	SB2			1
24	SB5			1
25	SB6			1
26	SB8			1
27	SB9			1
28	SB10			1
29	SB10			1
30	SB14			1
31	SB15			1
32	SB16			1
	TOTAL	14*	6*	12*

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN
** ALL ITEMS IN TABLE ARE CATEGORY 0110

SIGNAL MOUNTING HARDWARE

LOCATION	658.5069.04 SIGNAL MOUNTING HARDWARE L.S.
STH 100 & 64TH STREET	1
TOTAL	1

TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS

LOCATION	661.0200.04 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS L.S.
STH 100 & 64TH STREET	1
TOTAL	1

TRNSPT & INSTALL STATE FURN TRAFFIC SIGNAL CABINET

LOCATION	SPV.0105.05 TRNSPT & INSTALL STATE FURN TRAFFIC SIGNAL CABINET L.S.
STH 100 & 64TH ST	1
TOTAL	1

TRNSPT TRAFFIC SIGNAL AND INTER LIGHTING MATERIALS

LOCATION	SPV.0105.10 TRNSPT TRAFFIC SIGNAL & INTER LIGHTING MATERIALS L.S.
STH 100 & 64TH ST	1
TOTAL	1

TRNSPT & INSTALL STATE FURN EVP HEADS

LOCATION	SPV.0105.13 TRNSPT & INSTALL STATE FURN EVP HEADS L.S.
STH 100 & 64TH STREET	1
TOTAL	1

STH 100 & 66TH STREET
MILWAUKEE COUNTY
CATEGORY 0010
S40-1185

STATE FURNISHED MATERIALS SUMMARY

EACH	DESCRIPTION
1	TRAFFIC SIGNAL CABINET
4	EVP DETECTOR HEADS
4	INSTALL POLES TYPE 10
1	INSTALL POLES TYPE 9 SPECIAL
1	INSTALL POLES TYPE 10 SPECIAL
3	INSTALL MONOTUBE ARMS 15-FT
1	INSTALL MONOTUBE ARMS 30-FT
2	INSTALL MONOTUBE ARMS 40-FT

STATE FURNISHED FOR INFORMATION ONLY

SIGNAL BASE NO.	EVP DETECTOR HEADS EACH
SB5	1
SB12	1
SB16	1
SB9	1
TOTAL	4

REMOVING CONCRETE BASES

SIGNAL BASE NO.	204.0195 REMOVING CONCRETE BASES EACH
CB1	1
SB1	1
SB2	1
SB3	1
SB4	1
SB5	1
SB6	1
SB7	1
SB8	1
SB9	1
SB10	1
SB11	1
TOTAL	12*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLA

REMOVE TRAFFIC SIGNALS

LOCATION	204.9105.S.05 REMOVE TRAFFIC SIGNALS L.S.
STH 100 & 66TH STREET	1
TOTAL	1

REMOVE LOOP DETECTOR WIRE AND LEAD-IN CABLE

LOCATION	204.9105.S.10 REMOVING LOOP DETECTOR WIRE & LEAD-IN CABLE L.S.
STH 100 & 66TH STREET	1
TOTAL	1

CONDUIT

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH L.F.	652.0615 CONDUIT SPECIAL 3-INCH L.F.
CB1	PB1		87	
PB1	SB1	7		
PB1	PB2		80	
PB2	PB3			94
PB2	SB16	20		
PB3	SB2	33		
PB3	PB4	148		
PB3	PB5		17	
PB3	PB6			46
PB4	SB3	8		
PB6	PB7	279		
PB6	PB8			92
PB8	SB4		8	
PB8	SB5	25		
PB8	PB9		106	
PB9	SB6	8		
PB10	PB12	7		
PB12	PB13			130
PB13	SB7		5	
PB13	PB14		144	
PB14	SB8	36		
PB14	PB15	164		
PB14	PB17			134
PB15	PB16	130		
PB17	SB11	61		
PB17	PB18	25		
PB17	SB9		43	
PB17	SB10		47	
PB17	PB19			102
PB19	PB20		176	
PB20	SB12	9		
PB20	PB21		54	
PB21	SB13	4		
PB21	PB22	14		
PB21	PB24			76
PB22	PB23	165		
PB24	SB14		5	
PB24	SB15	20		
PB24	CB1		60	
	TOTAL	1163*	832*	674*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIES	SHEET: 465	E

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1185\S40-1185_mq.pptx PLOT DATE : 11/18/2020 PLOT BY : DOTSHW PLOT NAME : S40-1185_mq.pdf PLOT SCALE : 1:1

3

STH 100 & 66TH STREET
MILWAUKEE COUNTY
CATEGORY 0010
S40-1185

TRAFFIC DETECTOR LOOPS

LOOP NO.	HOME RUN PB	LOCATION**	SIZE (FT)x(FT)	NO. OF TURNS	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.	655.0700 LOOP DETECTOR LEAD IN CABLE L.F.	655.0800 LOOP DETECTOR WIRE L.F.
11	PB5	382+15.2, 1.0' LT	6'X20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	72	147	216
12	PB5	382+43.3, 1.2' LT	6'X20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	72	147	216
21	PB16	387+19.4, 47.2' LT	6'X20'	5	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	68	599	340
22	PB16	387+19.4, 34.8' LT	6'X20'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	94	599	470
23	PB16	387+19.4, 21.9' LT	6'X20'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	118	599	590
24	PB15	385+89.4, 47.2' LT	6'X18'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	62	469	186
25	PB15	385+89.5, 34.9' LT	6'X18'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	88	469	264
26	PB15	385+89.8, 22.5' LT	6'X18'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	114	469	342
51	PB18	384+04.5, 1.0' LT	6'X20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	68	263	204
52	PB18	383+76.5, 1.0' LT	6'X20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	70	263	210

3

31	PB23	383+06.3, 260.3' RT	6'X6'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	40	247	160
32	PB22	383+07.6, 98.7' RT	6'X20'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	66	86	264
33	PB22	383+08.7, 71.5' RT	6'X20'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	64	86	256
61	PB7	379+23.9, 46.7' RT	6'X20'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	134	432	536
62	PB7	379+24.0, 34.2' RT	6'X20'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	81	432	324
63	PB7	379+23.9, 22.6' RT	6'X20'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	86	432	344
64	PB4	380+53.9, 47.0' RT	6'X6'	5	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	88	278	440
65	PB4	380+53.9, 34.7' RT	6'X6'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	64	278	320
66	PB4	380+53.9, 22.9' RT	6'X6'	5	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	40	278	200
					TOTAL	1489*	6573*	5882*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN

** LOCATION IS TO FRONT CENTER OF DETECTOR LOOP

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

FILE NAME : N:\PDS\C3D\CAD\21500001\SIG\S40-1185\S40-1185_mq.pptx PLOT DATE : 11/18/2020 PLOT BY : DOTSHW PLOT NAME : S40-1185_mq.pdf PLOT SCALE : 1:1

3

STH 100 & 66TH STREET
MILWAUKEE COUNTY
CATEGORY 0010
S40-1185

PULL BOXES

PULL BOX NO.	LOCATION*	653.0135 PULL BOXES STEEL 24x36-INCH EACH	653.0140 PULL BOXES STEEL 24x42-INCH EACH
PB1	382+43.3, 58.2' RT		1
PB2	382+03.1, 58.5' RT		1
PB3	382+02.4, 11.2' RT		1
PB4	380+53.8, 11.7' RT	1	
PB5	382+19.3, 10.9' RT	1	
PB6	382+02.0, 11.7' LT		1
PB7	379+23.8, 0.6' RT	1	
PB8	382+01.3, 58.0' LT		1
PB12	382+95.5, 80.6' LT		1
PB13	383+60.7, 81.2' LT		1
PB14	384+25.4, 57.6' LT		1
PB15	385+89.3, 57.6' LT	1	
PB16	387+19.3, 58.4' LT	1	
PB17	384+26.4, 9.9' RT		1
PB18	384+01.4, 9.7' RT	1	
PB19	384+27.2, 60.7' RT		1
PB20	383+39.4, 61.3' RT		1
PB21	383+22.1, 81.7' RT		1
PB22	383+17.3, 95.3' RT	1	
PB23	383+17.3, 260.2' RT	1	
PB24	382+84.5, 82.2' RT		1
	TOTAL	8*	13*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN
* * * FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

REMOVE PULL BOXES

PULL BOX NO.	653.0905 REMOVING PULL BOXES EACH
PB1	1
PB2	1
PB3	1
PB5	1
PB6	1
PB7	1
PB8	1
PB9	1
PB10	1
PB11	1
PB12	1
PB14	1
PB16	1
PB18	1
TOTAL	14*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN

CONCRETE BASES

SIGNAL BASE NO.	LOCATION*	654.0101 CONCRETE BASES TYPE 1 EACH	654.0105 CONCRETE BASES TYPE 5 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
CB1	382+65.6, 76.6' RT					1
SB1	382+50.5, 58.5' RT	1				
SB2	382+34.7, 11.4' RT			1		
SB3	382+61.9, 10.3' RT		1			
SB4	381+93.4, 58.0' RT				1	
SB5	382+24.6, 68.1' LT	1				
SB6	382+42.5, 75.7' LT	1				
SB7	383+61.3, 76.1' LT			1		
SB8	383+89.2, 57.8' LT	1				
SB9	383+83.7, 10.6' RT			1		
SB10	383+80.3, 10.6' RT				1	
SB11	384+87.5, 10.3' RT		1			
SB12	383+80.2, 61.7' RT	1				
SB13	383+18.4, 80.4' RT	1				
SB14	382+84.4, 77.0' RT			1		
SB15	382+67.2, 71.6' RT	1				
SB16	382+22.6, 61.6' RT	1				
	TOTAL	8*	2*	4*	2*	1*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN
* * * FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

STH 100 & 66TH STREET
MILWAUKEE COUNTY
CATEGORY 0010
S40-1185

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG L.F.	655.0305 CABLE TYPE UF 2-12 AWG GROUNDED L.F.
CB1	SB1		63	
CB1	SB2		208	
CB1	SB3			347
CB1	SB4		284	
CB1	SB5	301		
CB1	SB6		353	
CB1	SB7		491	
CB1	SB8		434	
CB1	SB9		358	
CB1	SB10		362	
CB1	SB11			376
CB1	SB13		105	
CB1	SB14		52	
CB1	SB16		132	
CB1	SB2			208
SB2	SB3			229
CB1	SB14			52
SB14	SB10			344
SB10	SB11			132
	TOTAL	301*	2842*	1688*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG L.F.
CB1	SB1	63
SB1	SB16	107
SB16	SB2	124
SB2	SB3	229
SB3	SB4	305
SB4	SB5	57
SB5	SB6	126
SB6	SB7	185
SB7	SB8	153
SB8	SB9	186
SB9	SB10	114
SB10	SB11	132
SB11	SB12	265
SB12	SB13	80
SB13	SB14	87
SB14	SB15	49
SB15	CB1	67
PB1	CB1	52
PB2	SB16	40
PB3	SB3	192
PB6	SB5	107
PB8	SB5	45
PB9	SB8	292
PB10	SB9	321
PB12	SB9	235
PB13	SB10	150
PB16	SB11	81
PB18	SB14	226
PB19	SB14	122
PB20	SB15	94
PB23	CB1	43
	TOTAL	4329*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG L.F.
SB1	HEAD 11		22
SB2	HEAD 12		36
SB2	HEAD 20		15
SB2	HEAD 21		15
SB2	BUTTON		15
SB4	HEAD 8		61
SB4	HEAD 9		49
SB4	HEAD 10		37
SB5	HEAD 22	15	
SB5	BUTTON	15	
SB6	HEAD 14		22
SB6	HEAD 16		19
SB6	HEAD 23		15
SB6	BUTTON		15
SB7	HEAD 15		52
SB7	HEAD 24		15
SB7	BUTTON		15
SB8	HEAD 5		22
SB8	HEAD 7		19
SB9	HEAD 6		39
SB10	HEAD 2		38
SB10	HEAD 3		50
SB10	HEAD 4		62
SB13	HEAD 13		15
SB14	HEAD 17		39
SB14	HEAD 18		26
SB16	HEAD 1		15
SB16	HEAD 19		15
SB16	BUTTON		15
	TOTAL	30*	758*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN

3

STH 100 & 66TH STREET
MILWAUKEE COUNTY
CATEGORY 0010
S40-1185

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG L.F.
SB2	LUMIN (2)	288
SB3	LUMIN	117
SB7	LUMIN	144
SB10	LUMIN (2)	288
SB11	LUMIN	117
SB14	LUMIN	144
	TOTAL	1098*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL EVP DETECTOR CABLE

FROM	TO	655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE L.F.
CB1	SB4 (HEAD A)	356
CB1	SB10 (HEAD B)	428
CB1	SB14 (HEAD C)	77
CB1	SB7 (HEAD D)	552
	TOTAL	1413*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN

POLES (STATE FURNISHED)

SIGNAL BASE NO.	SPV.0060.35 INSTALL POLES TYPE 10 BLACK EACH	SPV.0060.36 INSTALL POLES TYPE 9 SPECIAL BLACK EACH	SPV.0060.37 INSTALL POLES TYPE 10 SPECIAL BLACK EACH	SPV.0060.38 INSTALL MONOTUBE ARMS 15-FT BLACK EACH	SPV.0060.40 INSTALL MONOTUBE ARMS 30-FT BLACK EACH	SPV.0060.42 INSTALL MONOTUBE ARMS 40-FT BLACK EACH	SPV.0060.44 INSTALL LUMINAIRE ARMS STEEL 15-FT BLACK EACH	SPV.0060.57 ** PEDESTRIAN PUSH BUTTONS BLACK EACH	SPV.0060.58** LUMINAIRES UTILITY LED C BLACK EACH
SB2	1			1			2	1	2
SB4			1			1			
SB7	1				1		1	1	1
SB9	1			1					
SB10		1				1	2		2
SB14	1			1			1		1
TOTAL	4*	1*	1*	3*	1*	2*	6*	2*	6*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN ** CATEGORY 0110

POLES (CONTRACTOR FURNISHED)**

SIGNAL BASE NO.	SPV.0060.47 PEDESTAL BASES BLACK EACH	SPV.0060.48 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE BLACK EACH	SPV.0060.49 POLES TYPE 5 ALUMINUM BLACK EACH	SPV.0060.50 TRAFFIC SIGNAL STANDARDS ALUMINUM 3.5-FT BLACK EACH	SPV.0060.52 TRAFFIC SIGNAL STANDARDS ALUMINUM 10-FT BLACK EACH	SPV.0060.53 LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 6-FT BLACK EACH	SPV.0060.57 PEDESTRIAN PUSH BUTTONS BLACK EACH	SPV.0060.58 LUMINAIRES UTILITY LED C BLACK EACH
SB1	1				1			
SB3		1	1			1		1
SB5	1				1		1	
SB6	1				1		1	
SB8	1				1			
SB11		1	1			1		1
SB12	1			1			1	
SB13	1				1			
SB15	1			1			1	
SB16	1				1		1	
TOTAL	8*	2*	2*	2*	6*	2*	5*	2*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN ** ALL ITEMS IN TABLE ARE CATEGORY 0110

STH 100 & 66TH STREET
MILWAUKEE COUNTY
CATEGORY 0010
S40-1185

FACES **

SIGNAL HEAD NO.	SIGNAL BASE NO.	SPV.0060.54 TRAFFIC SIGNAL FACE 3S 12-INCH BLACK EACH	SPV.0060.55 TRAFFIC SIGNAL FACE 4S 12-INCH BLACK EACH	SPV.0060.56 PEDESTRIAN SIGNAL FACE 16-INCH BLACK EACH
1	SB16	1		
2	SB10	1		
3	SB10	1		
4	SB10	1		
5	SB8		1	
6	SB9		1	
7	SB8	1		
8	SB4	1		
9	SB4	1		
10	SB4	1		
11	SB1		1	
12	SB2		1	
13	SB13	1		
14	SB6		1	
15	SB7		1	
16	SB6	1		
17	SB14		1	
18	SB14		1	
19	SB16			1
20	SB2			1
21	SB2			1
22	SB5			1
23	SB6			1
24	SB7			1
25	SB12			1
26	SB14			1
	TOTAL	10*	8*	8*

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE ON PLAN
** ALL ITEMS IN TABLE ARE CATEGORY 0110

SIGNAL MOUNTING HARDWARE

LOCATION	658.5069.05 SIGNAL MOUNTING HARDWARE L.S.
STH 100 & 66TH STREET	1
TOTAL	1

TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS

LOCATION	661.0200.05 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS L.S.
STH 100 & 66TH STREET	1
TOTAL	1

TRNSPT & INSTALL STATE FURN TRAFFIC SIGNAL CABINET

LOCATION	SPV.0105.06 TRNSPT & INSTALL STATE FURN TRAFFIC SIGNAL CABINET L.S.
STH 100 & 66TH ST	1
TOTAL	1

TRNSPT TRAFFIC SIGNAL & INTERLIGHTING MATERIALS

LOCATION	SPV.0105.11 TRNSPT TRAFFIC SIGNAL & INTER LIGHTING MATERIALS L.S.
STH 100 & 66TH ST	1
TOTAL	1

TRNSPT & INSTALL STATE FURN EVP HEADS

LOCATION	SPV.0105.14 TRNSPT & INSTALL STATE FURN EVP HEADS L.S.
STH 100 & 66TH ST	1
TOTAL	1

3

TE
T I EX IBIT I A RAP IC REPRE E TATI A D I R RE ERE CE P RP E LY
RE ERT T EC EYA CE D C ME T R PARCEL RELATED DETAIL

TLE AC I ITI EX IBIT
BR DEER R AD CITY MIL IL BR DEER
1 TREET - DEERBR TRAIL
T 100 MIL A EE C TY

PART T E 14 T E 14 ECTI 4 A D 14 T E 14 ECTI T8
R21E I T E ILLA E BR DEER MIL A EE C TY I C I

100 WE ENERGIES ELECTRIC
10' Easement Doc. 1511178 - Parcel 1
6' Easement Doc. 5782099 - Parcel 1
12' Easement Doc 5061217 - Parcel 1
10' Easement Doc. 5597189, CSM 4290 - Parcel 1
20' Easement Doc. 4434111 - Parcel 2

101 AT&T WI
12' Easement Doc 5061217 - Parcel 1
10' Easement Doc. 5597189, CSM 4290 - Parcel 1

M
C M 24
P r 1

PL
PL
B d
110
1 4 21"E
1 BE E r r LLC
C M 42 0
P r 1
12 d E E r AT T
E rC M 42 0
12
20
100 101
TLE r r d
E d d r TLE
PI 2 4
C M C lr P
E 8 008 14
3 0 32
T 100
2
8 20 "E 2 8
ECTI LI E
C M Br C
E 34 4
3 02 4
TLE r r d
E d d r TLE
10 00
1 00
32 1 1 "E
1 0
100
R rd E
2
M
d
GN
R D rr C I
1
110
0 3 0 "
CALE EET
0 2 0

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	T.L.E. TEMP. S.F.	F.E.E. TEMP. S.F.	P.L.E. TEMP. S.F.
1	BEG Enterprises LLC	TLE	100.09		
2	Azhar I Mian	TLE	79.98		

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER	INTEREST REQUIRED			
100	WE Energies - Electric	ROR			
101	AT&T WI	ROR			

T I MAP I APPR ED R T E DEPARTME T TRA P RTATI
RE I A D CITY RE I ICE

I AT RE _____ DATE _____

PRI T AME

TE
T I EX IBIT I A RAP IC REPRE E TATI A D I R RE ERE CE P RP E LY
RE ERT T EC EYA CE D C ME T R PARCEL RELATED DETAIL

TLE AC I ITI EX IBIT
BR DEER R AD CITY MIL IL BR DEER
1 TREET - DEERBR TRAIL
T 100 MIL A EE C TY

PART T E 14 T E 14 ECTI 4 T8 R21E I T E
ILLA E BR DEER MIL A EE C TY I C I

100 WE ENERGIES ELECTRIC
9' Easement Doc. 5048693 - Parcel 3
12' Easement Doc. 5752878 - Parcel 3
20' Easement Doc. 4434111 - Parcel 5
12' Easement Doc. 5130508 - Parcel 5
Var. Width Easement Doc. 5529078 - Parcel 5

101 AT&T WI
9' Easement Doc. 5048693 - Parcel 3
12' Easement Doc. 5130508 - Parcel 5

103 CITY OF MILWAUKEE - SANITARY
20' Easement Doc. 5013367 CSM 2848 - Parcel 5

E-
3
R R ML LLC
r rd E
L 1 B 1
R rd E
d
101
3 00
20 4 33"
28 1
33 4
00
2 13
28 00
TLE r r d
8
1 33 1 "E
4
Ar rr M I LLC
C M 41 3
P r 1
TLE r r d
2 00
31
31
2 00
3
C M C lr P
E 8 008 14
3 0 32
C M Br C
E 34 4
3 02 4
318
8 20 "E
ECTI LI E
T 100
320
TLE r r d
20 d r E
C M 2848
4 2
103
A D C r
C M 2848
P r 1
2 LLC
M r Pr r
C M 23 2
P r 3
E-
CALE EET
0 2 0

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	T.L.E. TEMP. S.F.	F.E.E. TEMP. S.F.	P.L.E. TEMP. S.F.
3	RJR ML LLC	TLE	257.86		
4	Arciterra WG Milw WI LLC	TLE	33.39		
5	Alliance Development Corp	TLE	368.82		

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER	INTEREST REQUIRED			
100	WE Energies - Electric	ROR			
101	AT&T WI	ROR			
103	City of Milwaukee - Sanitary	ROR			

T I MAP I APPR ED R T E DEPARTME T TRA P RTATI
RE I A D CITY RE I ICE

I AT RE _____ DATE _____

PRI T AME

Curve Table				
Curve #	Length	Radius	Chord Length	Chord Bearing
C1	5.04	24.42	5.03	S05° 26' 07"W
C2	3.03	24.42	3.03	N08° 46' 55"W

100 WE ENERGIES - ELECTRIC
10' Easement Doc. 1354633 - Parcel 6
12' Easement Doc. 4898894 CSM 1882 & 2372 - Parcel 6
No Record of Easement Parcels 7, 8

101 AT&T WI
12' Easement Doc. 4898894 - CSM 1882 & 2372 -Parcel 6

102 WE Energies - Gas
65' Easement Doc. 4504647 - Parcel 8

TE
T I EX IBIT I A RAP IC REPRE E TATI A DI R RE ERE CE P RP E LY
RE ERT T EC EYA CE D C ME T R PARCEL RELATED DETAIL

8200 LLC r
C M 2082
P r 1

82 d

r M C r
r rd
P 1
L 1

TLE r r d
0 28 20"
3 00
3 04
2 48
C1
C2
3
8
PL
R rd E
d 100
C M C lr P
X 8 008 14
Y 3 0 32

T 100
32
328 8 31 34"E 330 332
ECTI LI E

C M C lr P
E 80 0
3 0 34

TLE r r d
0 28 2 "E
2 TLE
18 00
6
r l LLC
C M 2811
P r 1

2 LLC
M r Pr r l
C M 8 3
L 2

T M r r LLC
C M 1 8
P r 1

- E

GN

CALE EET
0 0 100

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	T.L.E. TEMP. S.F.	F.E.E. TEMP. S.F.	P.L.E. TEMP. S.F.
6	Otre Investments, Otre Capitol LLC & GS MGMT CO	TLE	11.98		
7	8200 LLC & Khullar	TLE	24.82		
8	Kotarski & Macpyles Corp	TLE	107.56		

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER	INTEREST REQUIRED
100	WE Energies - Electric	ROR
101	AT&T WI	ROR
102	WE Energies - Gas	ROR

T I MAP I APPR ED R T E DEPARTME T TRA P RTATI
RE I A D CITY RE I ICE

I AT RE _____ DATE _____

PRI T AME

TE
T I EX IBIT I A RAP IC REPRE E TATI A DI R RE ERE CE P RP E LY
RE ERT T EC EYA CE D C ME T R PARCEL RELATED DETAIL

Curve Table				
Curve #	Length	Radius	Chord Length	Chord Bearing
C3	3.05	19.42	3.05	S09° 56' 47"W
C4	2.01	19.42	2.00	S02° 29' 04"W
C5	5.04	24.42	5.03	N05° 26' 09"E
C6	25.42	19.42	23.64	N37° 58' 27"W
C7	38.51	29.42	35.82	S37° 58' 27"E
C8	32.96	51.00	32.39	N33° 37' 10"W
C9	6.21	240.00	6.21	N04° 42' 50"E
C10	22.90	25.00	22.11	S23° 09' 31"E
C12	6.50	25.00	6.48	S56° 51' 12"E

100 WE ENERGIES - ELECTRIC
6' Easement Doc. 4898894 - CSM 1882 & 2372 - Parcel 12
10' Easement Doc. 1354633 - Parcel 13
No record of easement - Parcels 9, 11

101 AT&T WI
6' Easement Doc. 4898894 - CSM 1882 & 2372 -Parcel 12

102 WE Energies - Gas
65' Easement Doc. 4712587 CSM 1927 - Parcel 9
65' Easement Doc. 4504647 - Parcels 9, 11
65' Easement Doc. 6784538 CSM 5849 - Parcel 9
6' easement Doc 4665806 - Parcels 9, 11
65' Easement Doc. 4673429 CSM 1819 - Parcel 11
10' Easement Doc. 3112241 - Parcel 12
10' Easement Doc. 6099836 - Parcel 12
10' Easement Doc. 4759800 CSM 1882 - Parcel 12
10' Easement Doc. 4694358 CSM 1882 - Parcel 12
10' easement Doc 3603392 CSM 2815 - Parcel 12
10' easement Doc 5000981 CSM 2815 - Parcel 12
10' Easement Doc. 4935104 CSM 2609 - Parcel 12
10' Easement Doc 5125376 CSM 3120 - Parcel 12

103 City of Milwaukee - Sanitary
Variable Width Easement Doc. 4759800 CSM 1882 - Parcels 12, 13
Variable Width Easement Doc. 4694358 CSM 1882 - Parcels 12, 13
Variable Width easement Doc 3603392 CSM 2815 - Parcel 12
Variable Width easement Doc 5000981 CSM 2815 - Parcel 12
Variable Width Easement Doc. 4935104 CSM 2609 - Parcel 12
Variable Width Easement Doc 5311773 CSM 3120 - Parcel 13
Variable Width Easement Doc 5125376 CSM 3120 - Parcel 13

RM Pr r
C M 84
P r 3

C M
A ILLE TATI
TL T 1
8

80
PRI ATE R AD
P BLIC ACCE EA EME T

E- E

E
C M 84
100
PL
2 24
3
C4
2 0
C
C3
7

r A d B
C M 181
P r 1

L1
L2
L3
L4
10
PL

C M C lr P
X 8 008 14
Y 3 0 32

C M C lr P
E 80 0
3 0 34

T 100
33
8 31 34"E 338
ECTI LI E

DEDICATED R RI T AY
PER CD D C 0 4 3 03

TLE r r d
2 14 TLE
28
2 22 TLE
44
r E
C M 281
PL
103
12
TLE r r d
R d R E LLC
C M 281 10 E
P r 2 C M 281
L13
L14
L12
L11
C8
C12
C10
L10
102
r E
r C M 3120
13
r C B
C M 3120
P r 1
E- E

CALE EET
0 2 0

L T		
L	L	B r
L1	10 00	8 31 "
L2	8 4	00 28 2 "
L3	82 3	28 2 "
L4	38 4	8 31 34"E
L	4 03	28 2 "E
L	8 4	00 28 2 "E
L	21 43	8 31 34"
L8	11 8	1 0 18"
L	0	84 32 41"
L10	38	03 0 08"
L11	1	8 31 34"E
L12	3 2	4 18 1 "E
L13	0	8 31 34"
L14	2 0	8 31 34"
L1	2 1	4 18 1 "E

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	T.L.E. TEMP. S.F.	F.E.E. TEMP. S.F.	P.L.E. TEMP. S.F.
9	RMS Properties	TLE, PLE	76.67		515.98
10	Eliminated				
11	First Financial & Associated Bank	FEE		1041.18	
12	Road Real Estate LLC	TLE, FEE	146.63	406.54	
13	First Citizens Bank	TLE, FEE	72.00	30.00	

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER	INTEREST REQUIRED
100	WE Energies - Electric	ROR
101	AT&T WI	ROR
102	WE Energies - Gas	ROR
103	City of Milwaukee Sanitary	ROR

T I MAP I APPR ED R T E DEPARTME T TRA P RTATI
RE I A D CITY RE I ICE

I AT RE _____ DATE _____

PRI T AME

R/W PROJECT NUMBER: 2150-00-21 | SHEET NUMBER: 4.05

TLE AC I ITI EX IBIT
PR ECT TITLE
BTITLE

Y MIL A EE C TY

1 4-1 4 DE CRIPTI

TE
T I EX IBIT I A RAP IC REPRE E TATI A DI RRE ERE CE P RP E LY
RE ERT T E C EYA CE D C ME T R PARCEL RELATED DETAIL

B LLC
C r l r

C M C Ir P
E 8 008 14
3 0 32

344 34 8 31 34"E 348

Pl 34 4 30

C M C Ir P
E 80 0
3 0 34

T 100

B r

T 181

GN

CALE EET
0 0 100

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	T.L.E. TEMP. S.F.	F.E.E. TEMP. S.F.	P.L.E. TEMP. S.F.

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER	INTEREST REQUIRED			

T I MAP I APPR ED R T E DEPARTME T TRA P RTATI
RE I A D CITY RE I ICE

I AT RE _____ DATE _____

PRI T AME

ILE AME 4 0 -4 0 D PL T DATE 11 2 2020 4 32 PM R PR ECT R PR

4

R/W PROJECT NUMBER: 2150-00-21 | SHEET NUMBER: 4.06

TLE AC I ITI EX IBIT
BR DEER R AD CITY MIL IL BR DEER
1 TREET - DEERBR TRAIL
T 100 MIL A EE C TY

PART T E 14 T E 14 ECTI 3 A D 14 T E 14 ECTI
10 T8 R21E I T E ILLA E BR DEER MIL A EE C TY I C I

TE
T I EX IBIT I A RAP IC REPRE E TATI A DI RRE ERE CE P RP E LY
RE ERT T E C EYA CE D C ME T R PARCEL RELATED DETAIL

100 WE ENERGIES - ELECTRIC
10' Easement Doc. 915903 - Parcel 15

14
r A C

B r r M d B d LLC

TLE r r d

C M 30 3
P r 1

PL

20 2 2 20.73'

PL PL

C M C Ir P
E 80 0
3 0 34

C M Br C
E 83 31 8
3 0 30 1

3 4 8 0 22"E 3
ECTI LI E 3 23

T 100

0 2 38"E 00

PL

PL 0 2 30"E 3 00 00 TLE r r d

1
D

B r

PL

P

GN

CALE EET
0 2 0

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	T.L.E. TEMP. S.F.	F.E.E. TEMP. S.F.	P.L.E. TEMP. S.F.
14	Western Auto Supply Co	TLE	41.84		
15	Jameel Dawan & Cindy Williams	TLE	15.00		

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER	INTEREST REQUIRED			

T I MAP I APPR ED R T E DEPARTME T TRA P RTATI
RE I A D CITY RE I ICE

I AT RE _____ DATE _____

PRI T AME

ILE AME 4 0 -4 0 D PL T DATE 11 2 2020 4 32 PM R PR ECT 21 0-00-21 4 0

TLE AC I ITI EX IBIT
BR DEER R AD CITY MIL IL BR DEER
1 TREET - DEERBR TRAIL
T 100 MIL A EE C TY

PART T E 14 T E 14 ECTI 3 A D 14 T E 14
T8 R21E I T E ILLA E BR DEER MIL A EE C TY I C I

100 WE ENERGIES - ELECTRIC
12' Easement Doc. 4751062 - Parcel 17

101 AT&T WI
12' Easement Doc. 4751062 - Parcel 17
No record of Easement - Parcel 16

TE
T I EX IBIT I A RAP IC REPRE E TATI A DI R RE ERE CE P RP E LY
RE ERT T E C EYA CE D C ME T R PARCEL RELATED DETAIL

4

1

TLE r r d

24 2 2 101 R rd E d

PL

C M C Ir P
E 80 0
3 0 34

C M Br C
E 83 31 8
3 0 30 1

D E¼ r r
3 T8 R21

3 2 ECTI LI E 14 3 13 3 3 4

8 0 22"

0 2 38"E 00

T 100

PL 33 20 PL

12 EPC I T C D 4 10 2

13 10

44 32 2 "E

TLE r r d

r C d

0 0 8"E

2 d

C M

GN

CALE EET
0 2 0

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	T.L.E. TEMP. S.F.	F.E.E. TEMP. S.F.	P.L.E. TEMP. S.F.
16	Kohl	TLE	48.54		
17	Whispering Hills Condominium	TLE	42.89		

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER	INTEREST REQUIRED			
100	WE Energies - Electric	ROR			
101	AT&T WI	ROR			

T I MAP I APPR ED R T E DEPARTME T TRA P RTATI
RE I A D CITY RE I ICE

I AT RE _____ DATE _____

PRI T AME

TLE AC I ITI EX IBIT
BR DEER R AD CITY MIL IL BR DEER
1 TREET - DEERBR TRAIL
T 100 MIL A EE C TY

PART T E E14 T E 14 ECTI 3 T8 R21E I T E ILLA E
BR DEER MIL A EE C TY I C I

TE
T I EX IBIT I A RAP IC REPRE E TATI A DI R RE ERE CE P RP E LY
RE ERT T E C EYA CE D C ME T R PARCEL RELATED DETAIL

101 AT&T WI
No Record of Easement - Parcel 16

E-

O

A TTRAC I C
L r LL

4

1

PL

TLE r r d

23 1 "E
2 10

00

24 2

PL

C M C Ir P
E 80 0
3 0 34

C M Br C
E 83 31 8
3 0 30 1

D E¼ r r
3 T8 R21

3 ECTI LI E 18 3 3 8

8 0 22"E

0 2 38" 00

T 100

PL

GN

CALE EET
0 2 0

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	T.L.E. TEMP. S.F.	F.E.E. TEMP. S.F.	P.L.E. TEMP. S.F.
16	Kohl	TLE	61.54		

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER	INTEREST REQUIRED			
101	AT&T WI	ROR			

T I MAP I APPR ED R T E DEPARTME T TRA P RTATI
RE I A D CITY RE I ICE

I AT RE _____ DATE _____

PRI T AME

TE
T I EX IBIT I A RAP IC REPRE E TATI A D I R RE ERE CE P RP E LY
RE ERT T E C EYA CE D C ME T R PARCEL RELATED DETAIL

R/W PROJECT NUMBER: 2150-00-21 | SHEET NUMBER: 4.09

TLE AC I ITI EX IBIT
BR DEER R AD CITY MIL IL BR DEER
1 TREET - DEERBR TRAIL
T 100 MIL A EE C TY

PART T E E14 T E 14 ECTI 4 T8 R21E I T E ILLA E
BR DEER MIL A EE C TY I C I

4

E-
B d LLC
r rd L E I
B 1L 1

- E
Br D r
C M8 0
L 3
60.00' P Dr E

PL
PL
PL
PL

C M C Ir P
E 80 0
3 034

Pl 3 41 4
Pl 3 234

8 0 22"E
3
8 0 8"E ECTI LI E
3 8

T 100

C M Br C
E 83 31 8
3 030 1

C M Br C
E 8 2 30
3 02

B I
C M3 21
L 2 3
E-
102
8
0 13"
L
L 1
- E

GN

CALE EET
0 2 0

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	T.L.E. TEMP. S.F.	F.E.E. TEMP. S.F.	P.L.E. TEMP. S.F.
18	Eliminated				

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER	INTEREST REQUIRED

T I MAP I APPR ED R T E DEPARTME T TRA P RTATI
RE I A D CITY RE I ICE

I AT RE _____ DATE _____

PRI T AME

ILE AME 4 0 -4 10 D PL T DATE 11 2 2020 4 3 PM R PR ECT 21 0-00-21

TE
T I EX IBIT I A RAP IC REPRE E TATI A D I R RE ERE CE P RP E LY
RE ERT T E C EYA CE D C ME T R PARCEL RELATED DETAIL

100 WE ENERGIES - ELECTRIC
No Record of Easement - Parcel 19

101 AT&T WI
No Record of Easement - Parcel 19

R/W PROJECT NUMBER: 2150-00-21 | SHEET NUMBER: 4.10

TLE AC I ITI EX IBIT
BR DEER R AD CITY MIL IL BR DEER
1 TREET - DEERBR TRAIL
T 100 MIL A EE C TY

PART T E E14 T E E14 ECTI 3 T8 R21E I T E
ILLA E BR DEER MIL A EE C TY I C I

4

1
Ad I
- E
C M8 0
L 1
0 4 02"E
140
Pr P C
C M4 41
L 1
P Dr
E
103
P Dr
E
C M8 0
60.00'
TLE r r d
TLE r r d
101 1 8
R rd
E d 4
PL
PL
PL
PL
Pl 381 2 38
T 100
382
8 0 8"E
ECTI LI E
384

C M Br C
E 83 31 8
3 030 1

C M Br C
E 8 2 30
3 02

M d d rr
0 3 00"
Br r

GN

CALE EET
0 2 0

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	T.L.E. TEMP. S.F.	F.E.E. TEMP. S.F.	P.L.E. TEMP. S.F.
19	Aldi Inc	TLE	70.30		

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER	INTEREST REQUIRED
100	WE Energies - Electric	ROR
101	AT&T WI	ROR

T I MAP I APPR ED R T E DEPARTME T TRA P RTATI
RE I A D CITY RE I ICE

I AT RE _____ DATE _____

PRI T AME

ILE AME 4 0 -4 10 D PL T DATE 11 2 2020 4 3 PM R PR ECT 21 0-00-21 4 10

TE
T I EX IBITI A RAP IC REPRE E TATI A D I R RE ERE CE P RP E LY
RE ERT T EC EYA CE D C ME T R PARCEL RELATED DETAIL

R/W PROJECT NUMBER: 2150-00-21 | **SHEET NUMBER: 4.11**

TLE AC I ITI EX IBIT
BR DEER R AD CITY MIL IL BR DEER
1 TREET - DEERBR TRAIL
T 100 MIL A EE C TY

PART T E 14 T E E14A D E14 T E E14 ECTI 3 T8 R21E I
T E ILLA E BR DEER MIL A EE C TY I C I 14-1 4DE CRIPTI

100 WE ENERGIES - ELECTRIC
12' Easement - Doc 10945327 - Parcel 20
12' Easement Doc. 5695019 - Parcel 21
12' Easement Doc. 9069351 CSM 7643 - Parcel 21
12' Easement Doc. 9283571 - Parcel 21

104 Village of Brown Deer - Storm
10' Easement - Doc 4746292 - Parcel 21
10' Easement - Doc 9069351 CSM 7643 - Parcel 21

105 Village of Brown Deer - Water
Water Variable Width Easement - Doc 5828967 - Parcel 21

- E
E- E
r R E B Tr
C M 43
P r 1
0 P Dr E
P rC M 43
10 r L E
C M 43
12 EE r E r
E D 10 4 32
0 4 02"E
Pr
Cr d
20
21
32 00
C M4 41
L 2
32
4 00
44 00
2 08"E
1 18
20 1
30 8
14
PL
TLE r r d
12 00
8 1
3 08
11
3 0
41 4 "E
4 1
1 4
2 4
20
100
PL
0 4 02"E
00
C M E 83 31 8 3 0 30 1
C M E 8 2 30 3 0 2
3 0
8 0 8"E
ECTI LI E
3 2
T 100
0
r R d
d
0 0 =
4
0
M d L d L r
CALE EET
0 2 0

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	T.L.E. TEMP. S.F.	F.E.E. TEMP. S.F.	P.L.E. TEMP. S.F.
20	Prime Financial Credit Union	PLE			362.47
21	Walmart Real Estate Business Trust	PLE, TLE	121.73		4368.14

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER	INTEREST REQUIRED			
100	WE Energies - Electric	ROR			
104	Village of Brown Deer - Storm	ROR			
105	Village of Brown Deer - Water	ROR			

T I MAP I APPR ED R T E DEPARTME T TRA P RTATI
RE I A D CITY RE I ICE

I AT RE _____ DATE _____

PRI T AME

ILE AME 4 11-4 12 D PL T DATE 11 2 2020 4 41 PM R PR ECT 21 0-00-21 4 11

4

TE
T I EX IBITI A RAP IC REPRE E TATI A D I R RE ERE CE P RP E LY
RE ERT T EC EYA CE D C ME T R PARCEL RELATED DETAIL

R/W PROJECT NUMBER: 2150-00-21 | **SHEET NUMBER: 4.12**

TLE AC I ITI EX IBIT
BR DEER R AD CITY MIL IL BR DEER
1 TREET - DEERBR TRAIL
T 100 MIL A EE C TY

PART T E E14 T E E14 ECTI 3 T8 R21E I T E ILLA E
BR DEER MIL A EE C TY I C I 14-1 4DE CRIPTI

100 WE ENERGIES - ELECTRIC
12' Easement - Doc 9580616 - Parcel 22
12' Easement - Doc 9622818 - Parcel 22
10' Easement - Doc 1317257 - Parcel 22

101 AT&T WI
12' Easement - Doc 9580616 - Parcel 22
12' Easement - Doc 9622818 - Parcel 22

106 Time Warner Cable
12' Easement - Doc 9580616 - Parcel 22
12' Easement - Doc 9622818 - Parcel 22

12 EPC AT T
T r rE
D 0 80 1
0 22818
0 43 11"E
22
EA Br D r LLC
C M 0
L 1 TLE r r d
2 3 33 TLE
PL
11
0 P r r LLC
C M2 42
P r 2
100 101 106
12 EPC AT T T r r
E D 0 80 1 0 22818
PL
C M Br C
E 83 31 8
3 0 30 1
C M Br C
E 88 3 33
3 0 2 88
PI 402 88 30
0
8 0 8"E
ECTI LI E
402
404
T 100
C M Br C
X 8 2 30
Y 3 0 2
0
r R d
PL
r L M
r I
R rd C d
0 1 4 "E
PL
CALE EET
0 2 0

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	T.L.E. TEMP. S.F.	F.E.E. TEMP. S.F.	P.L.E. TEMP. S.F.
22	EA Brown Deer LLC	TLE	72.68		

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER	INTEREST REQUIRED			
100	WE Energies - Electric	ROR			
101	AT&T WI	ROR			
106	Time Warner Cable	ROR			

T I MAP I APPR ED R T E DEPARTME T TRA P RTATI
RE I A D CITY RE I ICE

I AT RE _____ DATE _____

PRI T AME

ILE AME 4 11-4 12 D PL T DATE 11 2 2020 4 41 PM R PR ECT 21 0-00-21 4 12

4

TE
T I EX IBIT I A RAP IC REPRE E TATI A DI RRE ERE CE P RP E LY
RE ERT T EC EYA CE D C ME T R PARCEL RELATED DETAIL

R/W PROJECT NUMBER: 2150-00-21	SHEET NUMBER: 4.13
TLE AC I ITI EX IBIT PR ECT TITLE BTITLE	
Y	MIL A EE C TY
1 4-1 4 DE CRIPTI	

4

B rr

C M 844
L 1

0

0 4 33"

C M Br C
E 8 2 30
3 0 2

C M Br C
E 88 3 33
3 0 2 88

414

8 8 18"E

ECTI LI E

41

T 100

0

r R d

d

R rd C d d

0 01 41"E

B d

C M 1818
Pr 1

0

GN

CALE EET
0 2 0

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	T.L.E. TEMP. S.F.	F.E.E. TEMP. S.F.	P.L.E. TEMP. S.F.

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER	INTEREST REQUIRED			

T I MAP I APPR ED R T E DEPARTME T TRA P RTATI
RE I A D CITY RE I ICE

I AT RE _____ DATE _____

PRI T AME

ILE AME 4 13-4 14 D PL T DATE 11 2 2020 4 44 PM R PR ECT R PR

TE
T I EX IBIT I A RAP IC REPRE E TATI A DI RRE ERE CE P RP E LY
RE ERT T EC EYA CE D C ME T R PARCEL RELATED DETAIL

E-

R/W PROJECT NUMBER: 2150-00-21	SHEET NUMBER: 4.14
TLE AC I ITI EX IBIT PR ECT TITLE BTITLE	
Y	MIL A EE C TY
1 4-1 4 DE CRIPTI	

4

E

C M 20 0
P r 1

8

0 1 "

1

P r
Pr r LLC

Pl 42 1 30

C M Br C
E 8 2 30
3 0 2

C M Br C
E 1 2 33
3 0 2 0 1

T 100

424

42

8 8 18"E

ECTI LI E

428

430

0

r R d

d

R d d
L 1B 2

0 8 =

2 d

L R E LLC

C M 32 8
P r 2

E- E

A

R d d

0 1 "E

C M Br C
E 88 3 33
3 0 2 88

Br D r
A LLC
T I

D d rr E

1

120

GN

CALE EET
0 0 100

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	T.L.E. TEMP. S.F.	F.E.E. TEMP. S.F.	P.L.E. TEMP. S.F.

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER	INTEREST REQUIRED			

T I MAP I APPR ED R T E DEPARTME T TRA P RTATI
RE I A D CITY RE I ICE

I AT RE _____ DATE _____

PRI T AME

ILE AME 4 13-4 14 D PL T DATE 11 2 2020 4 44 PM R PR ECT R PR

TE
T I EX IBIT I A RAP IC REPRE E TATI A DI R RE ERE CE P RP E LY
RE ERT T E C EYA CE D C ME T R PARCEL RELATED DETAIL

R/W PROJECT NUMBER: 2150-00-21 | SHEET NUMBER: 4.15

TLE AC I ITI EX IBIT
BR DEER R AD CITY MIL IL BR DEER
1 TREET - DEERBR TRAIL
T 100 MIL A EE C TY

PART T E 1 4 T E E1 4 ECTI 2 T8 R21E I T E
ILLA E BR DEER MIL A EE C TY I C I

L T		
L	L	B r
L1	10 00	03 0 38"E

- E

M C r

C r D 1
PI TA 444 00 1
Y 3 02 3 2
X 00 4 4
DELTA 13 30 0 "
D 1 20 0 "
T 08 0
L 1011 48
R 42 2 40
PC TA 438 2 2
PT TA 44 04 10

101 AT&T WI
5' Easement - Doc 6204453
5' Easement - Doc 6195548 - Parcel 24
5' Easement - Doc 6528083 - Parcel 24

5' WIDE WI. BELL EASEMENT (DOC. 6528083)

24
ML-C C 200 - RT
ARB DRI E LLC

C M 8108
P r 2
5' WIDE WI. BELL EASEMENT (DOC. 6195548)

101 5' WISCONSIN BELL EASEMENT (DOC 5204453)

EXISTING PLE FOR SIDEWALK (PER DOC 9114514 REC. 10/20/2005)

PR 1
48 20 20"E
14 10
PR 20
C14
L1
D
0 01 42"E
83 3
E1/4 r r
3 T8 R21
442
1443.37'
438
440
8 8 18"
ECTI LI E
PC 438 2 2
PL
0
Dr
Ar
PL

T 100

C M Br C
E 88 3 33
3 0 2 8 88

C M Br C
E 12 33
3 0 2 0 1

M B I A

0 13 38"

GN

CALE EET
0 0 100

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	T.L.E. TEMP. S.F.	F.E.E. TEMP. S.F.	P.L.E. TEMP. S.F.
23	Eliminated				
24	ML-CFC 2007-7 North Arbon Drive LLC	FEE		49.86	

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER	INTEREST REQUIRED			
101	AT&T WI	ROR			

T I MAP I APPR ED R T E DEPARTME T TRA P RTATI
RE I A D CITY RE I ICE

I AT RE _____ DATE _____

PRI T AME

ILE AME 4 1 -4 1 D PL T DATE 11 4 2020 8 03 AM R PR ECT 21 0-00-21 4 1

4

TE
T I EX IBIT I A RAP IC REPRE E TATI A DI R RE ERE CE P RP E LY
RE ERT T E C EYA CE D C ME T R PARCEL RELATED DETAIL

R/W PROJECT NUMBER: 2150-00-21 | SHEET NUMBER: 4.16

TLE AC I ITI EX IBIT
PR ECT TITLE
BTITLE
Y MIL A EE C TY

1 4-1 4 DE CRIPTI

r I

80

C M 3 3
P r 1

C r D 2
PI TA 4 1
Y 3 0 2 4
X 1241 01
DELTA 13 38 24"
D 2 32"
T 22 01
L 4 8
R 1 14 8
PC TA 4 3 8
PT TA 4 8 22

Br D r R E LLC

C M 41 3
L 2

D r r Tr

8
PC 4 3
4 4
4 2
T 100
4 0
448

P Br D r LLC
C M 4
P r 2

C M Br C
E 88 3 33
3 0 2 8 88

C M Br C
E 12 33
3 0 2 0 1

GN

CALE EET
0 0 100

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	T.L.E. TEMP. S.F.	F.E.E. TEMP. S.F.	P.L.E. TEMP. S.F.

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER	INTEREST REQUIRED			

T I MAP I APPR ED R T E DEPARTME T TRA P RTATI
RE I A D CITY RE I ICE

I AT RE _____ DATE _____

PRI T AME

ILE AME 4 1 -4 1 D PL T DATE 11 4 2020 8 03 AM R PR ECT R PR

4

R/W PROJECT NUMBER: 2150-00-21	SHEET NUMBER: 4.17

TLE AC I ITI EX IBIT
PR ECT TITLE
BTITLE

Y MIL A EE C TY

1 4-1 4 DE CRIPTI

TE
T I EX IBIT I A RAP IC REPRE E TATI A DI RRE ERE CE P RP E LY
RE ERT T EC EYA CE D C ME T R PARCEL RELATED DETAIL

4

D r r Tr

r B Br D r Pr M

C M 11
P r 3

r
l

C M 3 3
P r 1

T 100

r LLC

rd r

P Br D r LLC

C M 4
P r 1

GN

CALE EET
0 0 100

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	T.L.E. TEMP. S.F.	F.E.E. TEMP. S.F.	P.L.E. TEMP. S.F.

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER	INTEREST REQUIRED			

T I MAP I APPR ED R T E DEPARTME T TRA P RTATI
RE I A D CITY RE I ICE

I AT RE _____ DATE _____

PRI T AME

R/W PROJECT NUMBER: 2150-00-21	SHEET NUMBER: 4.18

TLE AC I ITI EX IBIT
PR ECT TITLE
BTITLE

Y MIL A EE C TY

1 4-1 4 DE CRIPTI

TE
T I EX IBIT I A RAP IC REPRE E TATI A DI RRE ERE CE P RP E LY
RE ERT T EC EYA CE D C ME T R PARCEL RELATED DETAIL

4

GN

CALE EET
0 0 100

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	T.L.E. TEMP. S.F.	F.E.E. TEMP. S.F.	P.L.E. TEMP. S.F.

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER	INTEREST REQUIRED			

T I MAP I APPR ED R T E DEPARTME T TRA P RTATI
RE I A D CITY RE I ICE

I AT RE _____ DATE _____

PRI T AME

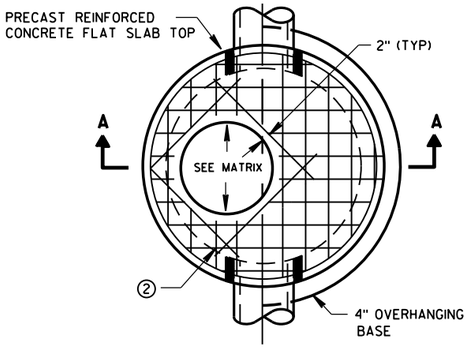
Standard Detail Drawing List

08B09-02	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C06-02	INLETS 3-FT AND 4-FT DIAMETER
08C07-02	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08D01-21A	CONCRETE CURB & GUTTER
08D01-21B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D05-20A	CURB RAMPS TYPES 1 AND 1-A
08D05-20B	CURB RAMPS TYPES 2 AND 3
08D05-20C	CURB RAMPS TYPES 4A AND 4A1
08D05-20D	CURB RAMPS TYPE 4B AND 4B1
08D05-20E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-20F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-20G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08D16-11	CONCRETE GUTTER, CURB AND GUTTER AND PAVEMENT TIES
08D17-06	MANHOLES, MANHOLE & INLET COVERS
08D19-02	DRIVEWAY AND SIDEWALK RAMPS TYPE Z
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09B02-10	CONDUIT
09B04-11	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)
09D02-03	SIGNAL CONTROL CABINET
09E01-15D	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)
09E01-15E	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 6 (35 FEET)
09E01-15F	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 17 (40 FEET)
09E01-15G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E03-06	NON-FREEWAY LIGHTING UNIT POLE WIRING
09E05-06	TRAFFIC SIGNAL STANDARD ORNAMENTAL BRACKET MOUNTINGS TYPICAL FOR 13 FT. OR 15 FT.
09E06-05	TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.
09E07-06	TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS
09E08-08B	TYPE 10 POLE 15'-30' MONOTUBE ARM
09E08-09B	TYPE 9 SPECIAL POLE 35' MONOTUBE ARM
09E08-09C	TYPE 9 SPECIAL POLE 40' MONOTUBE ARM
09E08-09D	TYPE 9 SPECIAL POLE 45' MONOTUBE ARM
09E08-09G	TYPE 10 SPECIAL POLE 40' MONOTUBE ARM
09E08-09H	TYPE 10 SPECIAL POLE 45' MONOTUBE ARM
09E08-09K	GENERAL NOTES,HARDWARE DETAILS FOR TYPE 9/10,9/10 SPECIAL,12 & 13 POLES W/MONOTUBE ARMS
09F15-04A	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)
09F15-04B	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)
09G01-04G	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
11B02-02	CONCRETE MEDIAN NOSE
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C13-09	URBAN DOWELED CONCRETE PAVEMENT
13C14-07A	BASE PATCHING CONCRETE
13C14-07B	BASE PATCHING CONCRETE
13C14-07C	BASE PATCHING CONCRETE
13C15-06A	CONCRETE BASE
13C15-06B	CONCRETE BASE
13C18-07A	CONCRETE PAVEMENT JOINTING
13C18-07B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-07C	CONCRETE PAVEMENT JOINT TYPES
13C18-07D	CONCRETE PAVEMENT JOINT TYPES AT UTILITY FIXTURES
13C19-02	HMA LONGITUDINAL JOINTS
14A02-01	TREE PLANTING DETAIL
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-08F	ADVANCED WIDTH RESTRICTION SIGNING
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C07-15B	PAVEMENT MARKING WORDS
15C07-15C	PAVEMENT MARKING ARROWS
15C08-20A	LONGITUDINAL MARKING (MAINLINE)

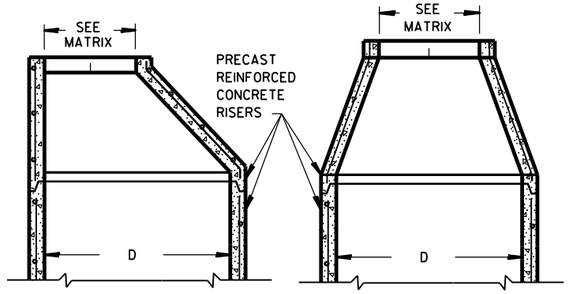
6

Standard Detail Drawing List

15C08-20B	PAVEMENT MARKING (TURN LANES)
15C08-20C	PAVEMENT MARKING (TURN LANES)
15C09-11A	SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD-HIGHWAY GRADE CROSSINGS
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C18-04	MEDIAN ISLAND MARKING
15C20-02	YIELD MARKING
15C27-03A	DOUBLE ARROW WARNING SIGN PLACEMENT
15C27-03B	PAVEMENT MARKING (ISLANDS)
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-04A	PAVEMENT MARKING (INTERSECTIONS)
15D20-05A	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D20-05B	TRAFFIC CONTROL, SINGLE RIGHT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESSWAY
15D20-05C	TRAFFIC CONTROL, SINGLE LEFT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESSWAY
15D21-06A	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D21-06B	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D21-07A	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D21-07B	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D22-04	TRAFFIC CONTROL, TWO LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D23-06A	TRAFFIC CONTROL, INTERSECTION WITHIN TWO LANE CLOSURE
15D23-06B	TRAFFIC CONTROL, INTERSECTION WITHIN TWO LANE CLOSURE
15D30-06A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-06B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-06C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS
15D39-02	TRAFFIC CONTROL, DROP-OFF SIGNING
15D40-01	TRAFFIC CONTROL, LANE SHIFT, MULTILANE DIVIDED OR ONE WAY ROAD
15D44-02	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES
16A01-07	LANDMARK REFERENCE MONUMENTS AND COVERS

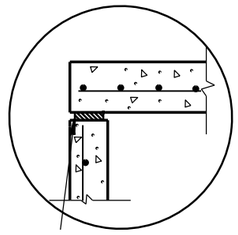


PLAN VIEW CIRCULAR OPENING

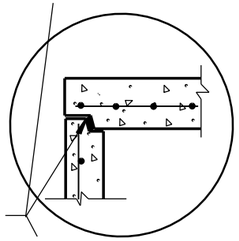


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

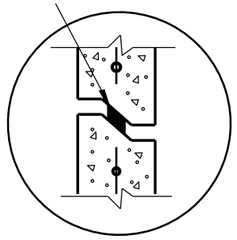


TOP WITH PLAIN END JOINT



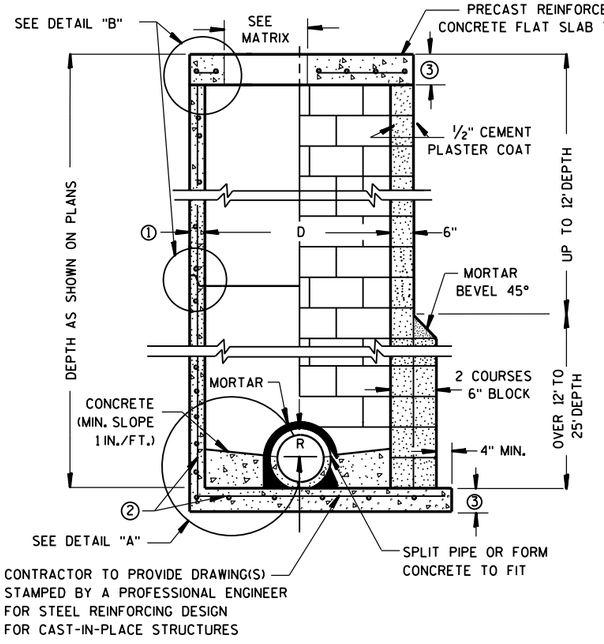
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



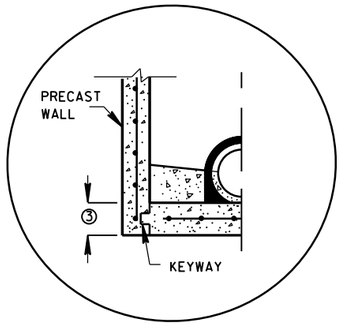
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

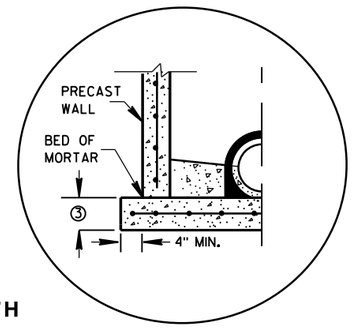


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

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

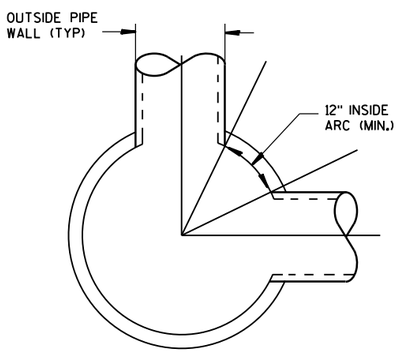


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

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

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

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

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

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

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

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

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

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

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

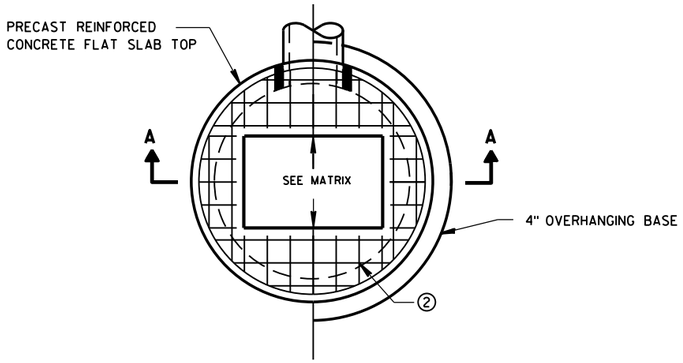
APPROVED

Sept., 2016
DATE

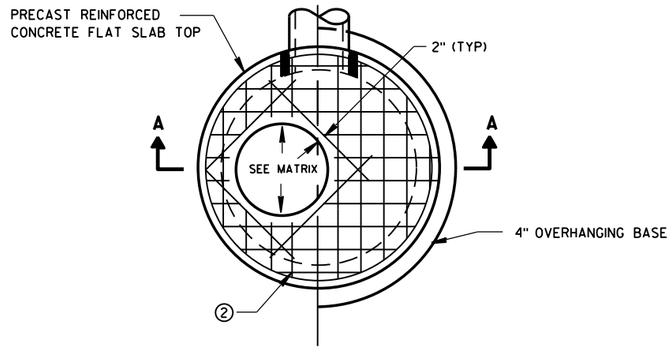
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERV

FHWA

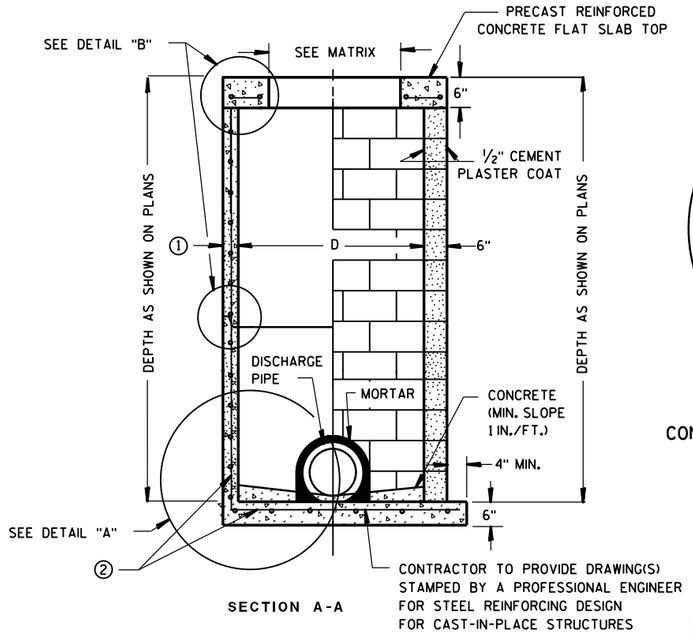
6
S.D.D. 8 B 9-2



PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

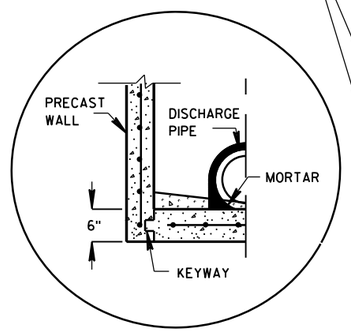


SECTION A-A

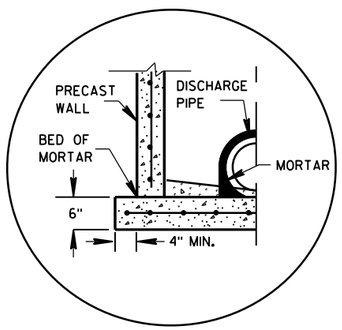
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

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

CIRCULAR INLETS W/ FLAT TOP

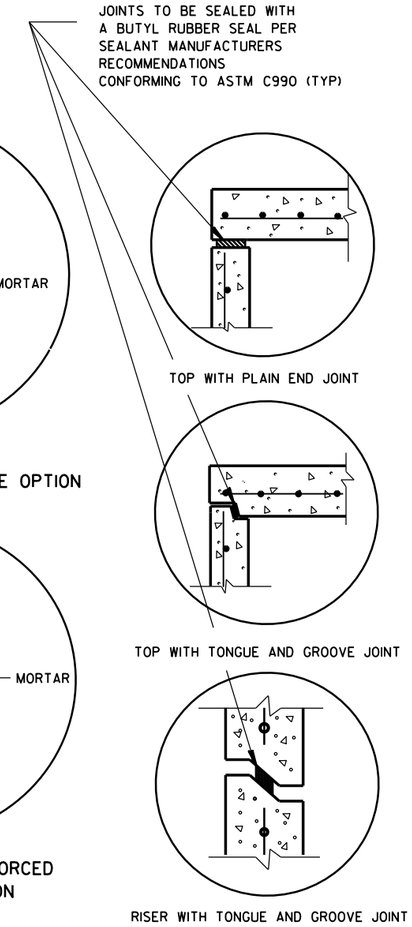


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "B"

GENERAL NOTES

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

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

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

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

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

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

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

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

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

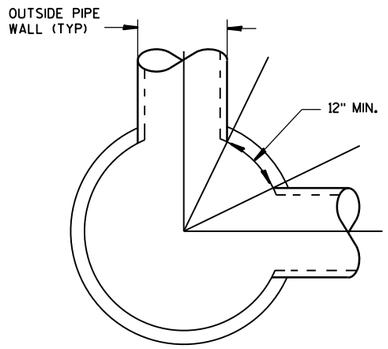
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

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

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

INLET COVER OPENING MATRIX

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



DETAIL "C"

PIPE MATRIX

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

INLETS 3-FT AND 4-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

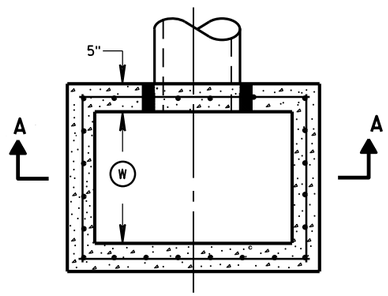
6

S.D.D. 8 C 6-2

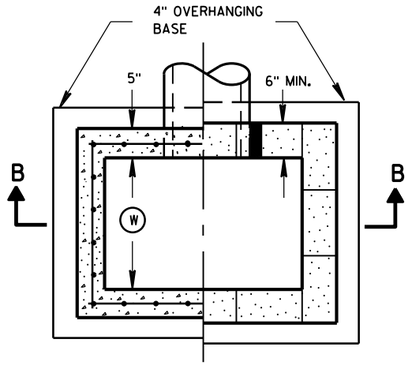
6

S.D.D. 8 C 6-2

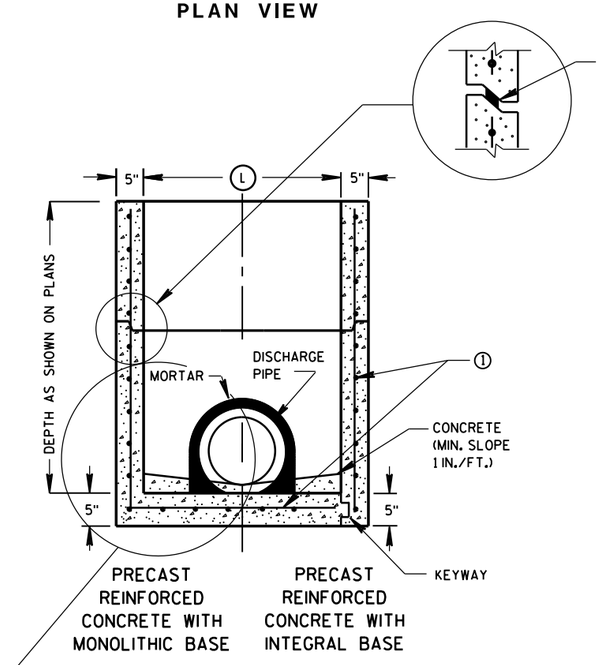
INLETS 3-FT AND 4-FT DIAMETER



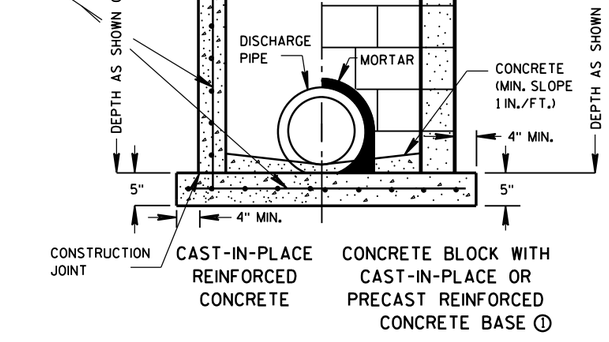
PLAN VIEW



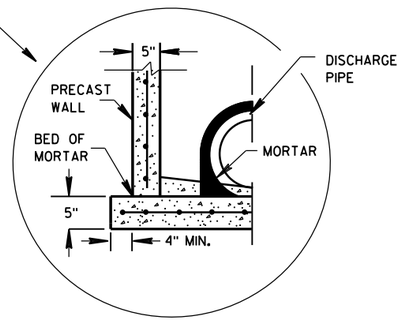
PLAN VIEW



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

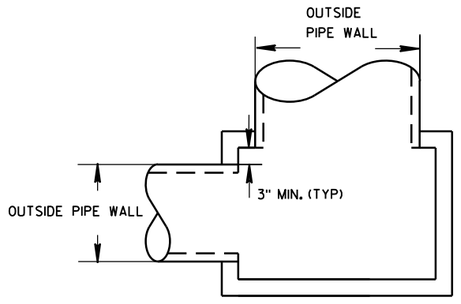
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

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

PIPE MATRIX

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



DETAIL "A"

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

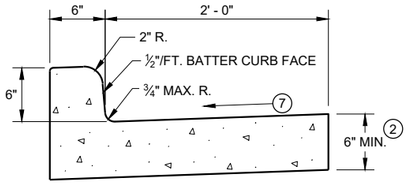
INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

6

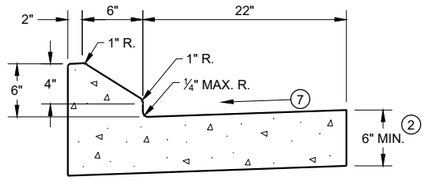
S.D.D. 8 C 7-2

6

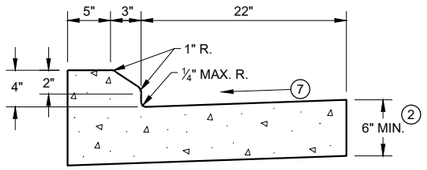
S.D.D. 8 C 7-2



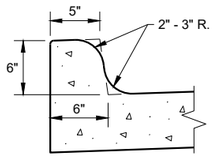
TYPES A (1) & D



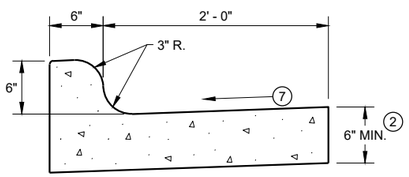
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

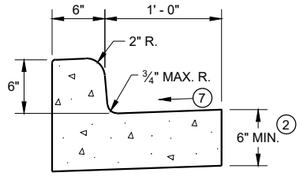


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



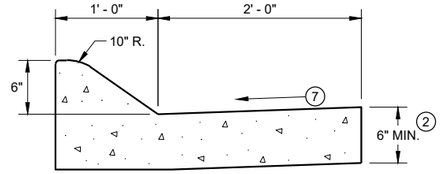
TYPES K (1) & L

CONCRETE CURB AND GUTTER 30"

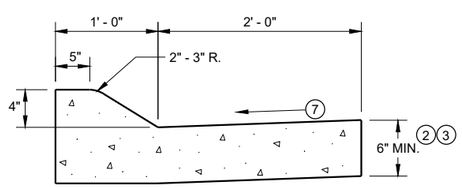


TYPES A (1) & D

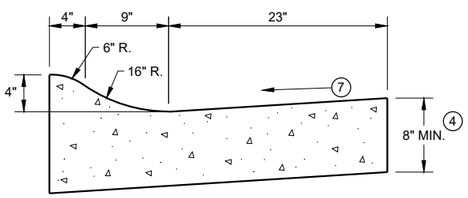
CONCRETE CURB AND GUTTER 18"



6" SLOPED CURB TYPES A (1) & D



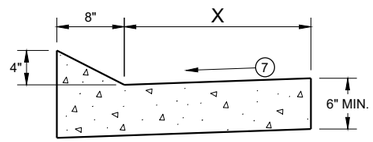
4" SLOPED CURB TYPES A (1) & D



4" SLOPED CURB TYPES R (1) & T (5)

CONCRETE CURB AND GUTTER 36"

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

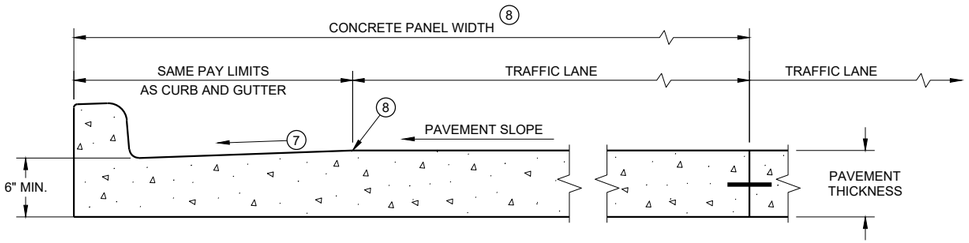


TYPES TBT & TBTT (1)

CONCRETE CURB AND GUTTER

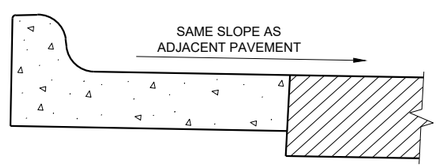
PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'

PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE



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) 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.

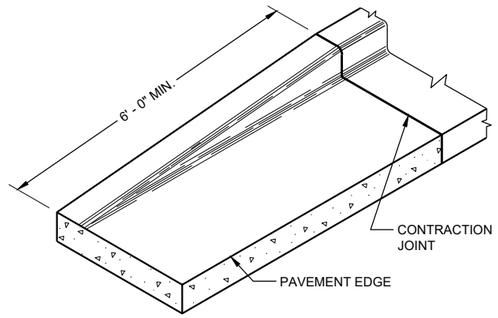
(7) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.

(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.

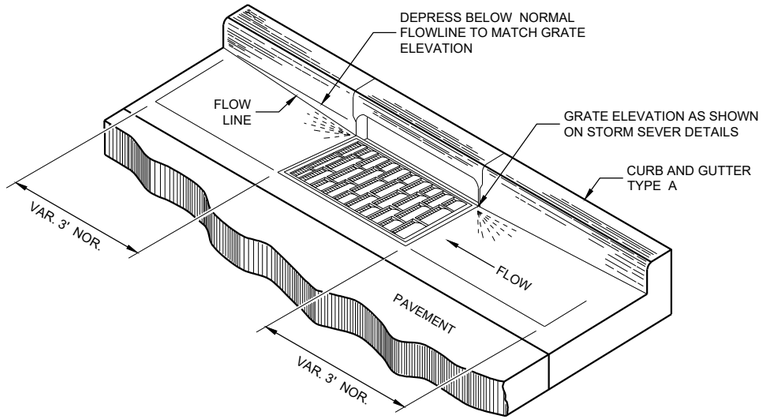
CONCRETE CURB AND GUTTER

SDD 08D01 - 21a

6



END SECTIONCURB AND GUTTER



DETAIL OF CURB AND GUTTER AT INLETS
(TYPICAL H INLET COVER SHOWN)

GENERAL NOTES

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

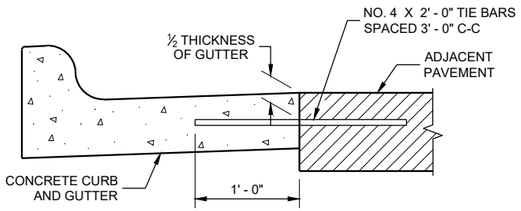
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

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

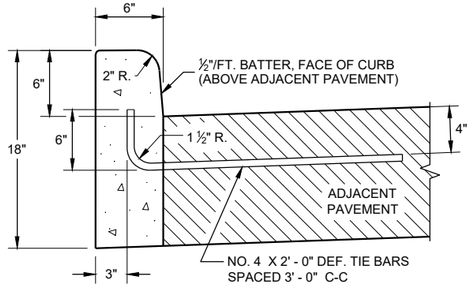
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

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

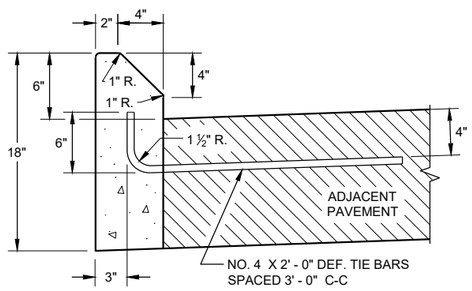
(9) REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.



TYPICAL TIE BAR LOCATION (1)

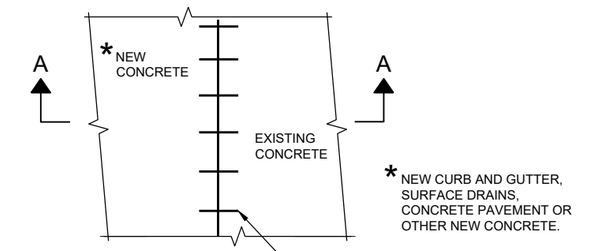


TYPES A (1) & D

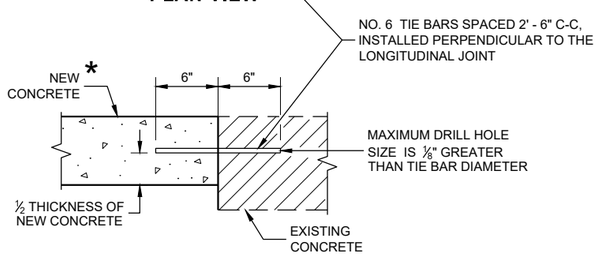


TYPES G (1) & J

CONCRETE CURB

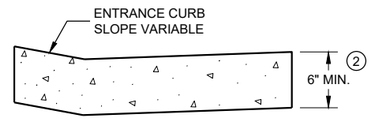


PLAN VIEW



SECTION A - A

TIE BARS DRILLED INTO EXISTING PAVEMENT



DRIVEWAY ENTRANCE CURB (9)
(WHEN DIRECTED BY THE ENGINEER)

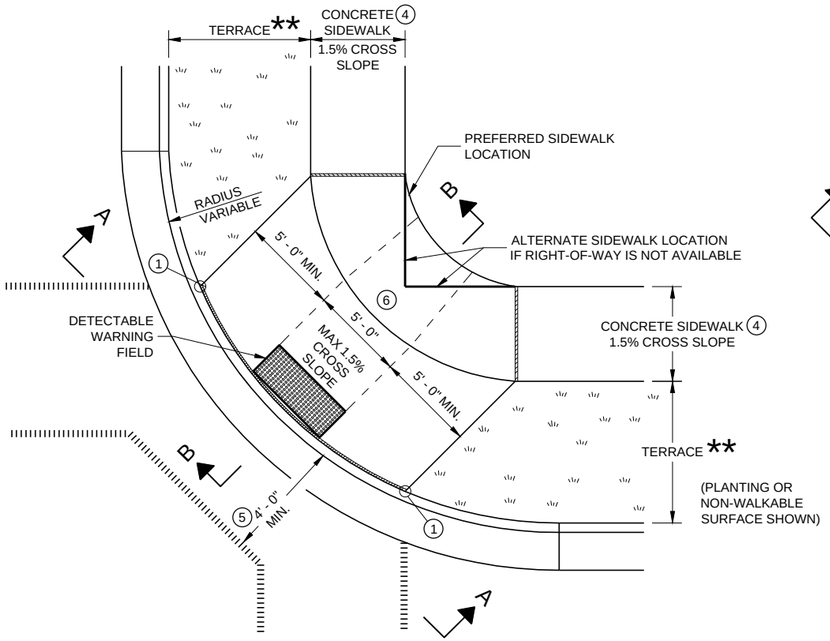
CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER
FHWA

6

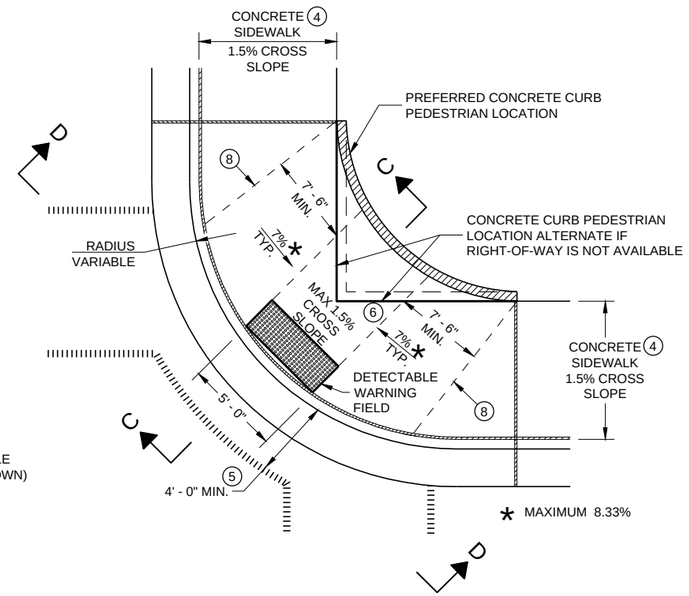
SDD08D01 - 21b



PLAN VIEW

CURB RAMP TYPE 1

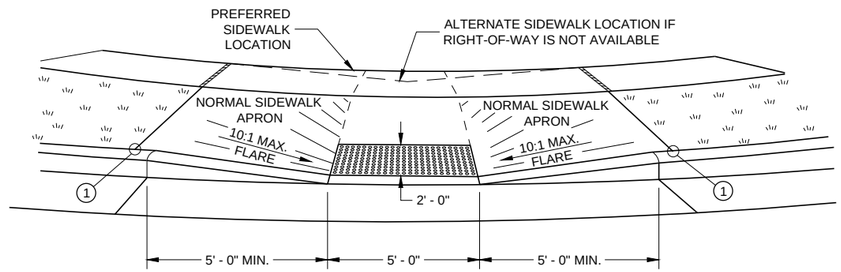
(CENTER OF CORNER RADIUS)



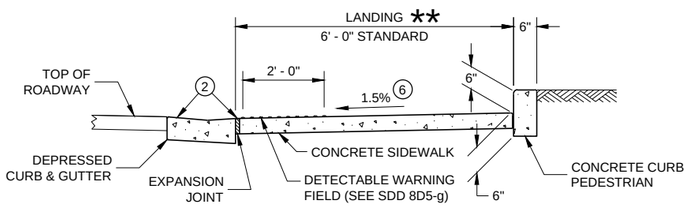
PLAN VIEW

CURB RAMP TYPE 1 - A

(NO TERRACE)

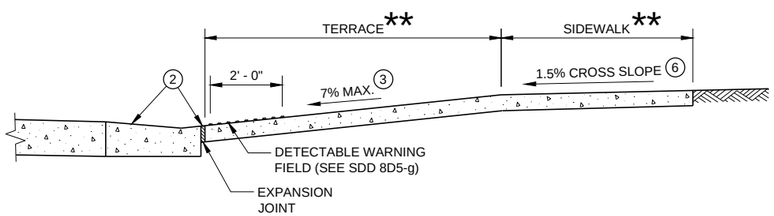


VIEW A - A FOR TYPE 1

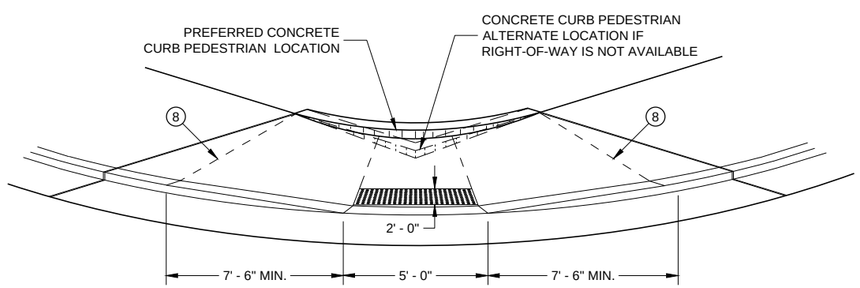


SECTION C - C FOR TYPE 1 - A

** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B - B FOR TYPE 1



VIEW D - D FOR TYPE 1 - A

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

(4) 0.5 CONSTR CTION TOLERANCE IN SIDEWALK CROSS SLOPE. T E SIDEWALK CROSS SLOPE S ALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(5) PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA.

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

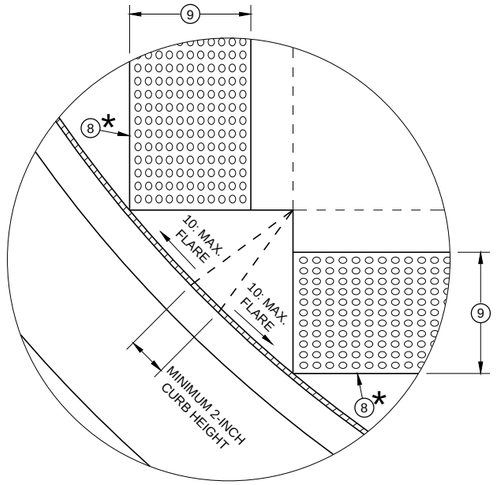
(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

LEGEND

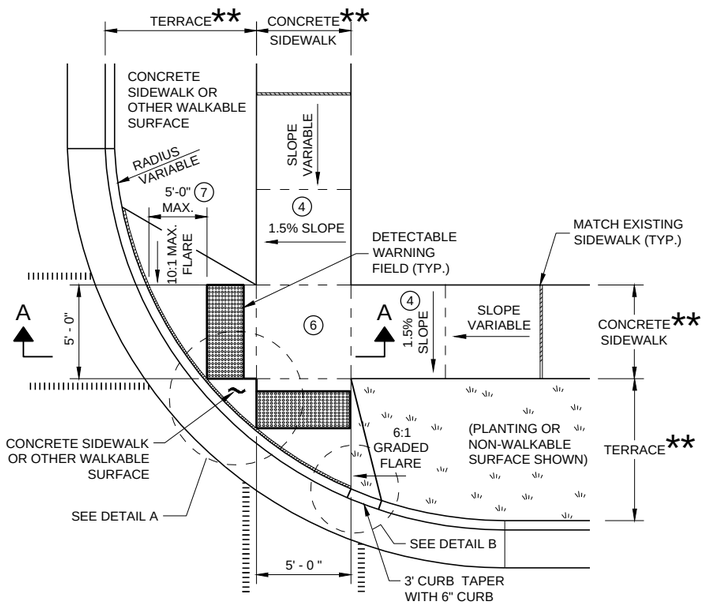
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPE 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTAT 488



DETAIL A



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

GENERAL NOTES

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

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

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

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

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

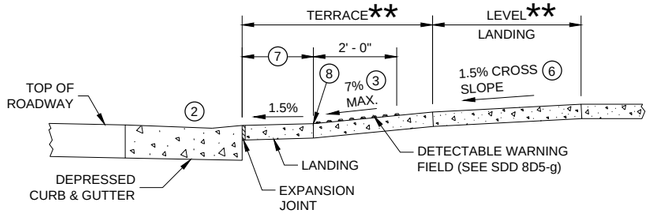
(4) 0.5 CONSTR CTION TOLERANCE IN SIDEWALK CROSS SLOPE. T E SIDEWALK CROSS SLOPE S ALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

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

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

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

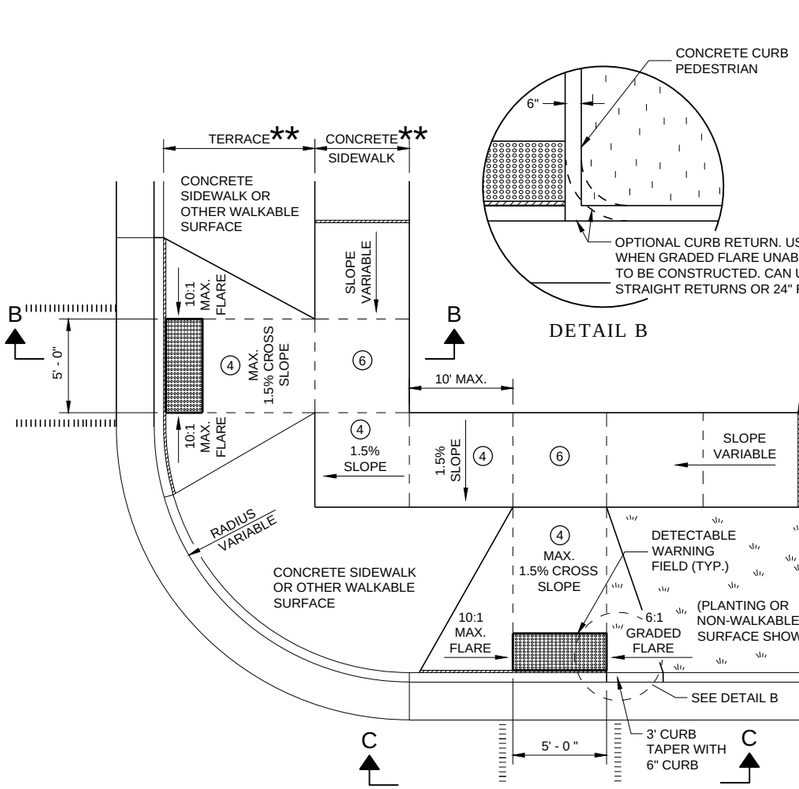
(9) WHEN DISTANCE IS LESS THAN 6' - 0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.



SECTION A - A FOR TYPE 2

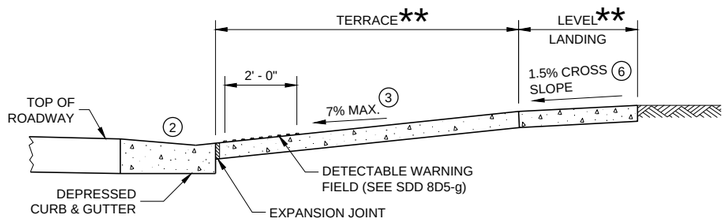
* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS

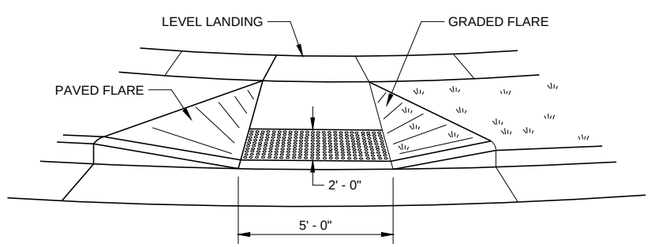


DETAIL B

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



SECTION B - B FOR TYPE 3

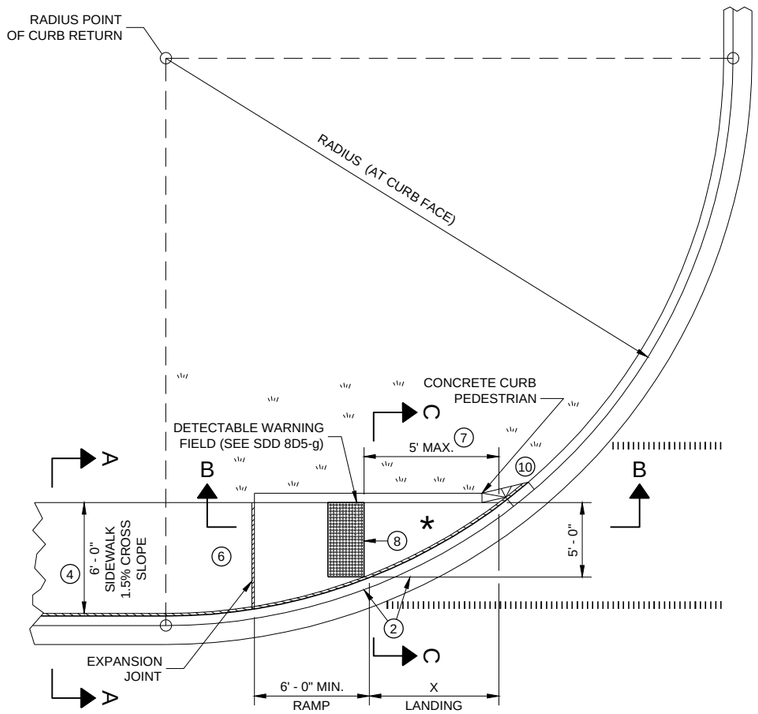


VIEW C - C FOR TYPE 3

LEGEND

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

CURB RAMPS
TYPE 2 AND 3

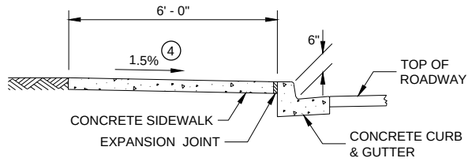


PLAN VIEW

CURB RAMP TYPE 4A

RADIUS (AT CURB FACE)	X
10 FEET	4' - 7"
15 FEET	6' - 5½"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A - A FOR TYPE 4A

GENERAL NOTES

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

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

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

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

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

(4) 0.5 CONSTR CTION TOLERANCE IN SIDEWALK CROSS SLOPE. T E SIDEWALK CROSS SLOPE S ALL NOT EXCEED 2 WIT O T 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.

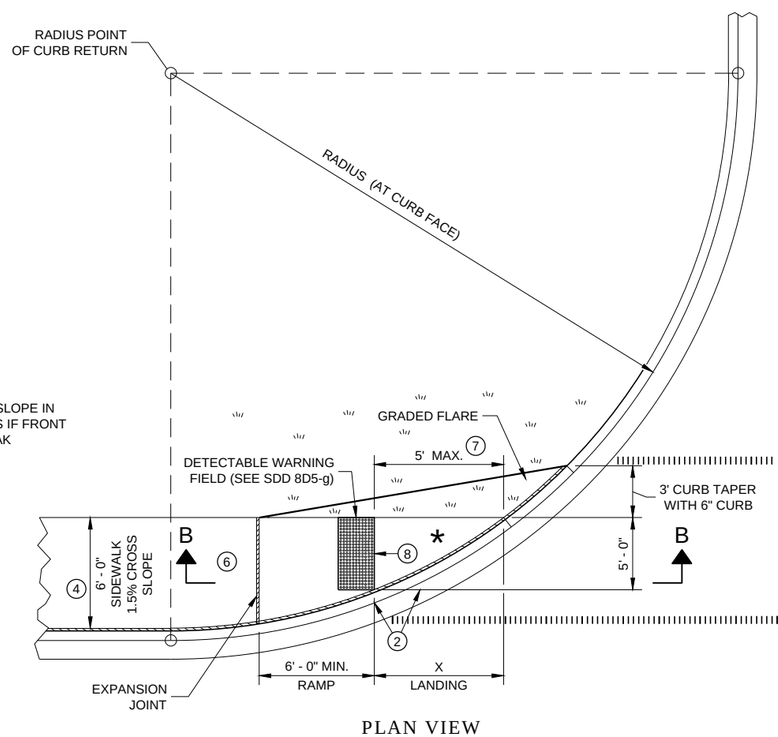
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

LEGEND

½" EXPANSION JOINT SIDEWALK

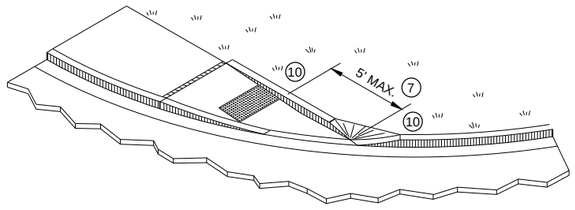
CONTRACTION JOINT SIDEWALK

PAVEMENT MARKING CROSSWALK (WHITE)

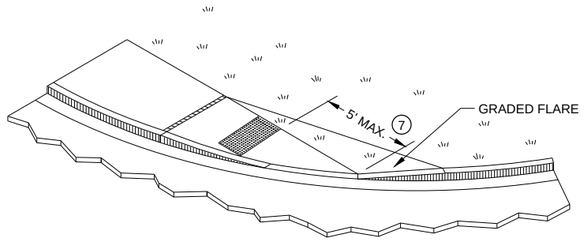


PLAN VIEW

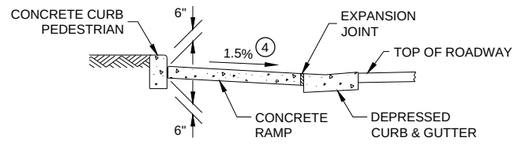
CURB RAMP TYPE 4A1



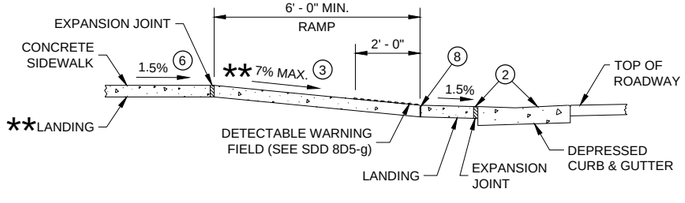
ISOMETRIC VIEW FOR TYPE 4A



ISOMETRIC VIEW FOR TYPE 4A1



SECTION C - C FOR TYPE 4A



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

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

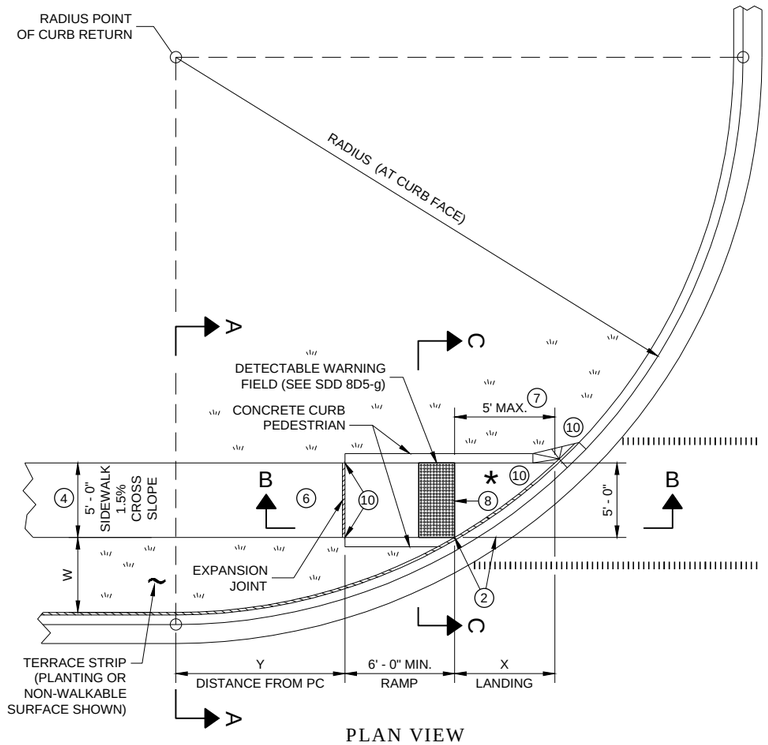
** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

CURB RAMPS
TYPE 4A AND 4A1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20c

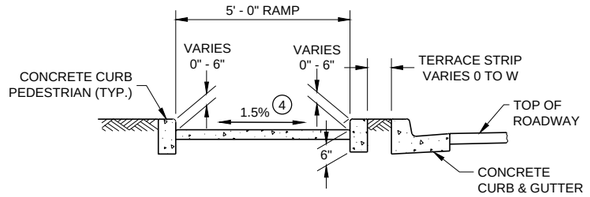


PLAN VIEW

CURB RAMP TYPE 4B

RADIUS (AT CURB FACE)	W = 3' - 0"		W = 4' - 0"		W = 5' - 0"		W = 6' - 0"		W = 7' - 0"		W = 8' - 0"		W = 9' - 0"		W = 10' - 0"	
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
10 FEET	2' - 10 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	5' - 9 3/4"	3' - 6 1/2"	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			6' - 9 1/4"	7' - 11 1/4"	6' - 0 1/4"	9' - 8"	5' - 5"	11' - 1 3/4"	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									6' - 1 3/4"	15' - 8 1/2"	5' - 8"	17' - 2"	5' - 3"	18' - 5 3/4"	4' - 10 3/4"	19' - 8 1/4"
50 FEET															5' - 10 1/4"	23' - 2"

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



SECTION C - C FOR TYPE 4B

LEGEND

½" EXPANSION JOINT SIDEWALK

CONTRACTION JOINT SIDEWALK

PAVEMENT MARKING
CROSSWALK (WHITE)

GENERAL NOTES

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

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

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

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

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

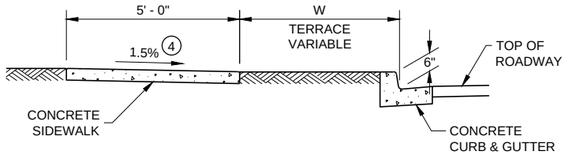
(4) 0.5 CONSTR CTION TOLERANCE IN SIDEWALK CROSS SLOPE. T E SIDEWALK CROSS SLOPE S ALL NOT EXCEED 2 WIT O T PRIOR APPROVAL FROM THE ENGINEER.

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

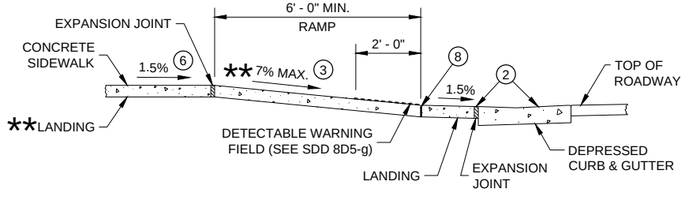
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

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

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



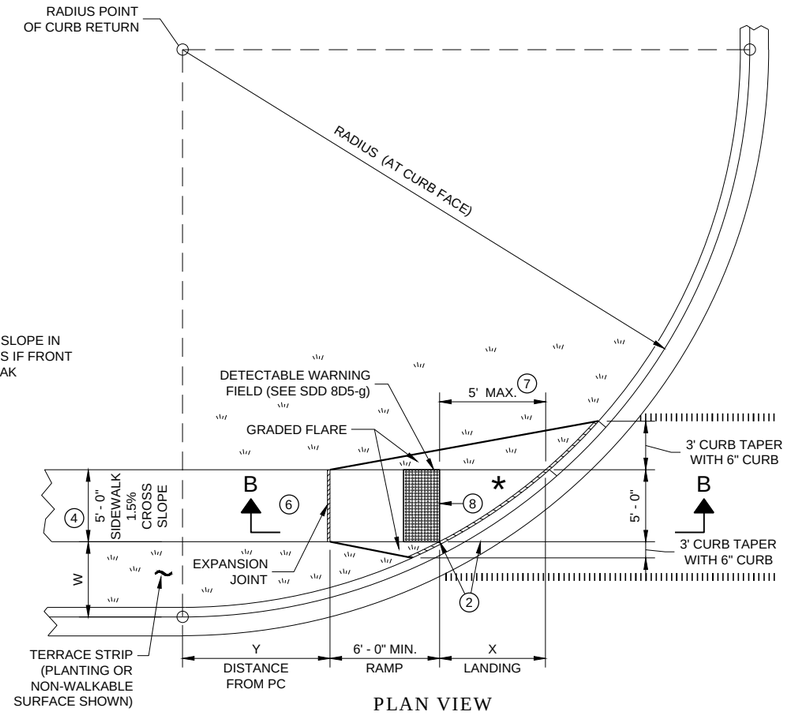
SECTION A - A FOR TYPE 4B



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

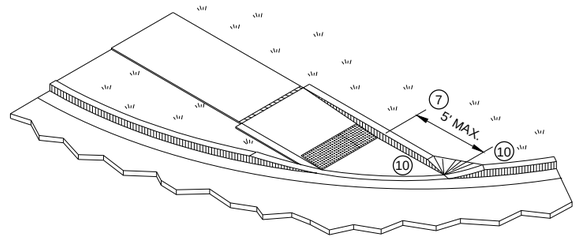
SECTION B - B FOR
TYPE 4B AND TYPE 4B1

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

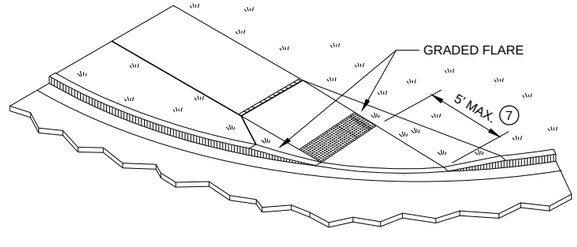


PLAN VIEW

CURB RAMP TYPE 4B1



ISOMETRIC VIEW FOR TYPE 4B



ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS
TYPE 4B AND 4B1

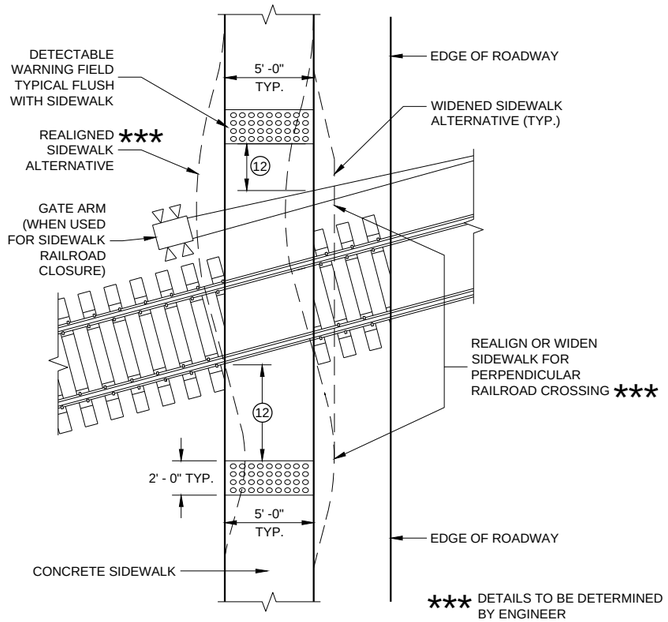
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTAT 491

6

SDD 08D05 - 20d

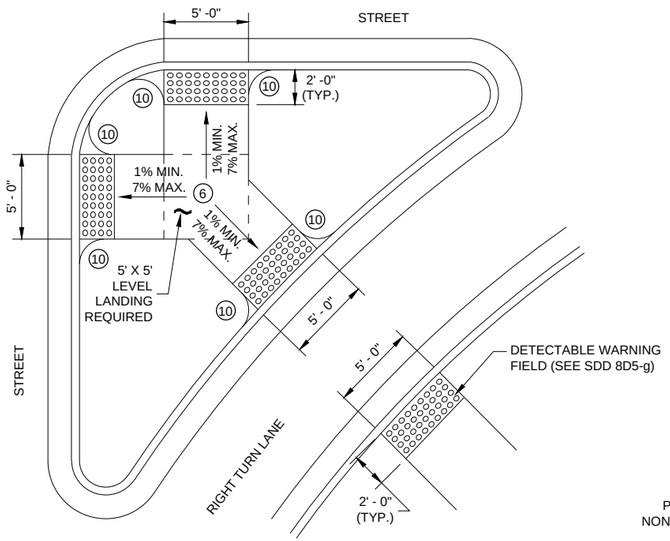
6

SDD 08D05 - 20d



CURB RAMP TYPE 8

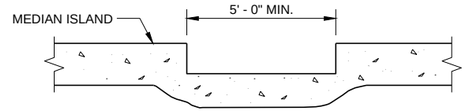
DETECTABLE WARNINGS
AT RAILROAD CROSSING



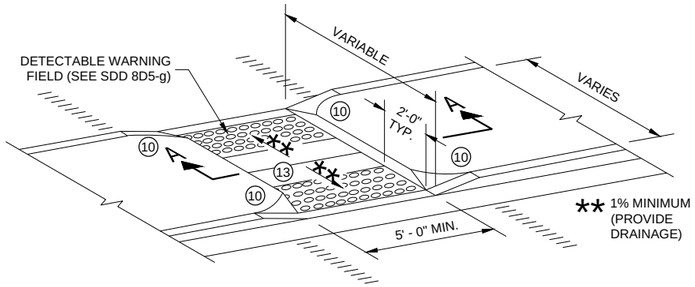
CURB RAMP TYPE 6

DETECTABLE WARNING AT ISLANDS

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

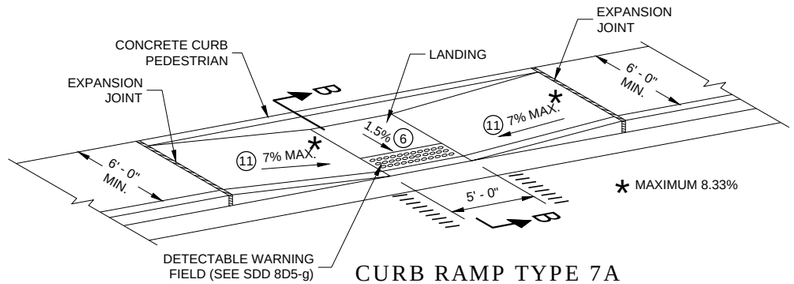


SECTION A - A FOR TYPE 5



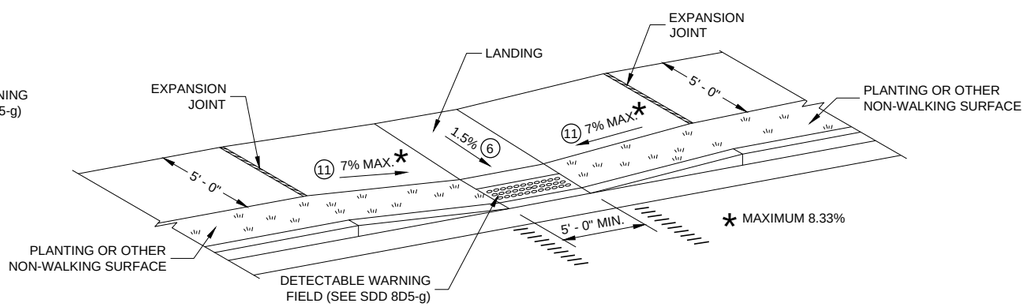
CURB RAMP TYPE 5

MEDIAN ISLAND
NON-ELEVATED PEDESTRIAN CROSSING



CURB RAMP TYPE 7A

MID BLOCK CROSSING



CURB RAMP TYPE 7B

MID BLOCK CROSSING

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.

GENERAL NOTES

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

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

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

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

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ½ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

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

(4) 0.5 CONSTR CTION TOLERANCE IN SIDEWALK CROSS SLOPE. T E SIDEWALK CROSS SLOPE S ALL NOT EXCEED 2 WIT O T 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.

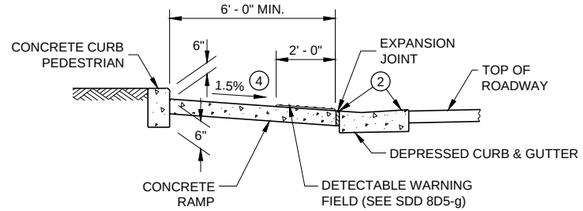
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) T E EDGE OF T E DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING S ALL BE 1.5 FEET 0.1' FROM T E FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

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

LEGEND

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



SECTION B - B FOR TYPE 7A

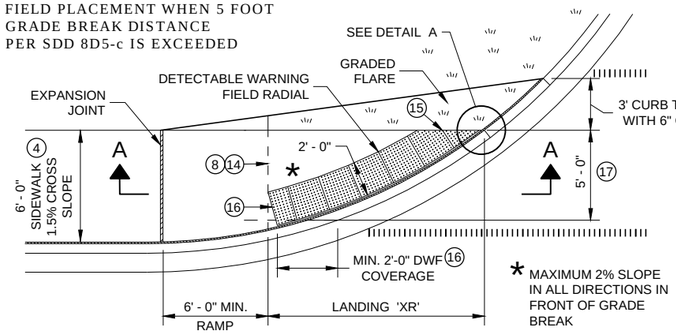
CURB RAMPS
TYPE 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20e

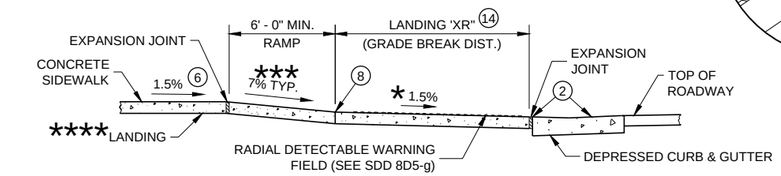
RADIAL DETECTABLE WARNING
FIELD PLACEMENT WHEN 5 FOOT
GRADE BREAK DISTANCE
PER SDD 8D5-c IS EXCEEDED



PLAN VIEW

CURB RAMP TYPE 4A1

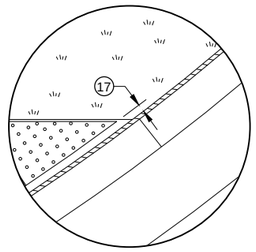
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



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

*** MAXIMUM 8.33%

SECTION A - A FOR TYPE 4A1



DETAIL A

LEGEND

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

GENERAL NOTES

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

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

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

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

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

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

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

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

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

(4) 0.5 CONSTR CTION TOLERANCE IN SIDEWALK CROSS SLOPE. T E SIDEWALK CROSS SLOPE S ALL NOT EXCEED 2 WIT O T PRIOR APPRO AL FROM T E ENGINEER.

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

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

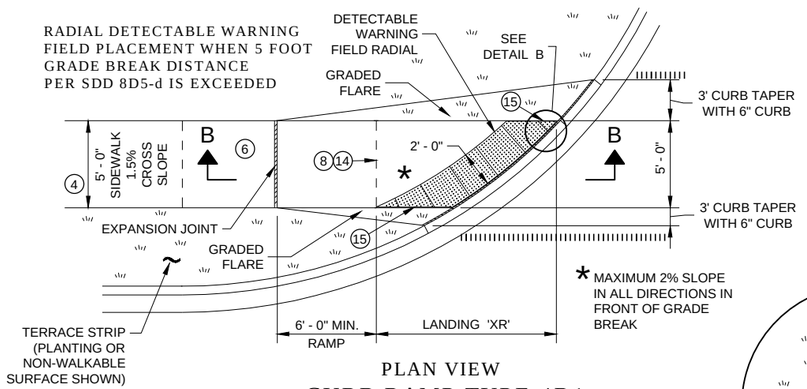
(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION "XR") REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

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

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

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

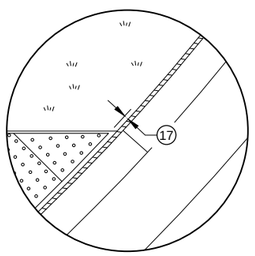
RADIAL DETECTABLE WARNING
FIELD PLACEMENT WHEN 5 FOOT
GRADE BREAK DISTANCE
PER SDD 8D5-d IS EXCEEDED



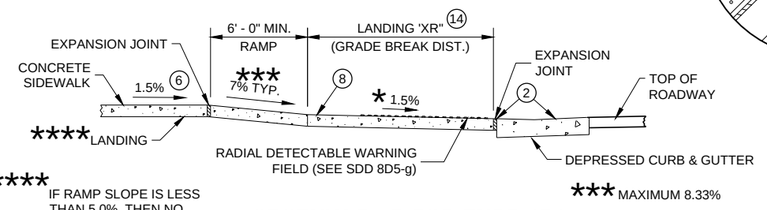
PLAN VIEW

CURB RAMP TYPE 4B1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



DETAIL B

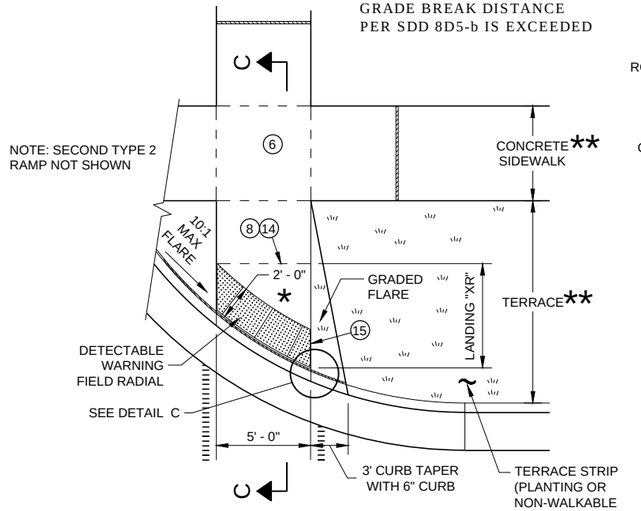


**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION B - B FOR TYPE 4B1

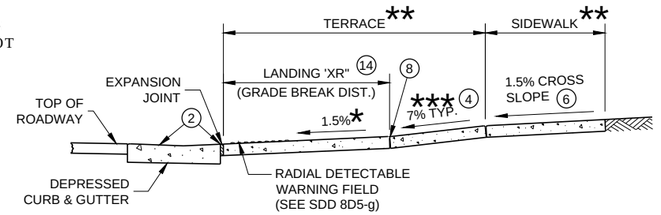
RADIAL DETECTABLE WARNING
FIELD PLACEMENT WHEN 5 FOOT
GRADE BREAK DISTANCE
PER SDD 8D5-b IS EXCEEDED



PLAN VIEW

CURB RAMP TYPE 2

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)
(ON LINE WITH SIDEWALK)

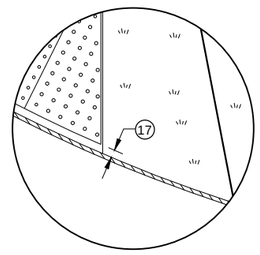


SECTION C - C FOR TYPE 2

* MAXIMUM 2% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS

*** MAXIMUM 8.33%



DETAIL C

CURB RAMPS
RADIAL DETECTABLE WARNING
FIELD APPLICATIONS

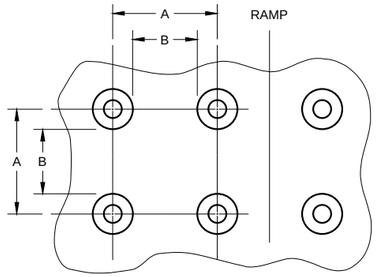
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

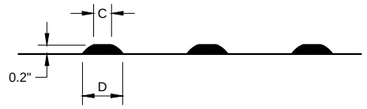
SDD 08D05 - 20f

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

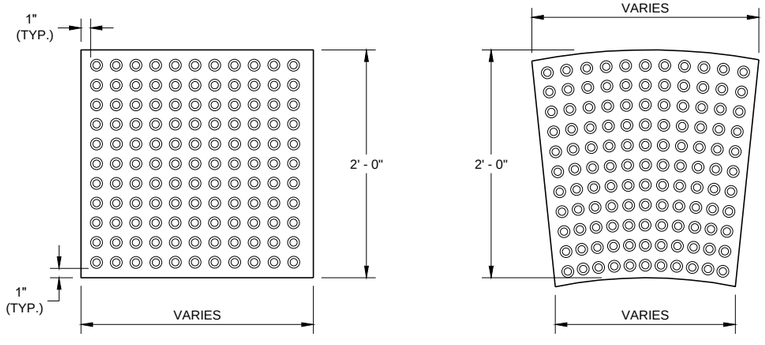


PLAN VIEW



ELEVATION VIEW

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



RECTANGULAR PLATES

RADIAL PLATES

PLAN VIEW
DETECTABLE WARNING FIELDS (TYPICAL)

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AT A CURB RAMP SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

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

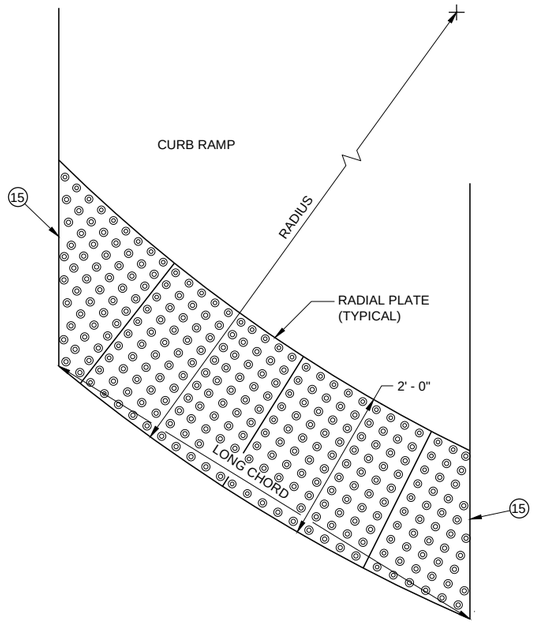
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGE PLATES IN COMBINATION WITH SQUARE PLATES ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

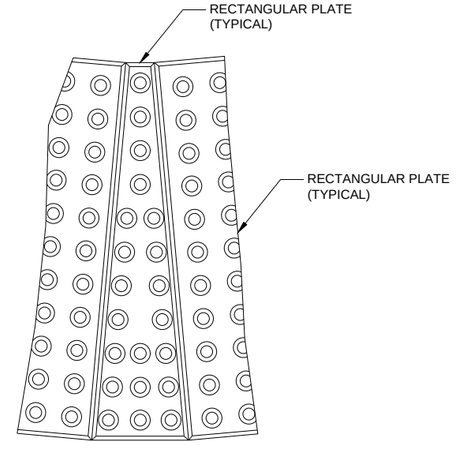
REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

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



PLAN VIEW
RADIAL DETECTABLE
WARNING FIELD ATTRIBUTES



PLAN VIEW
RADIAL WEDGE PLATE
CONNECTION DETAIL

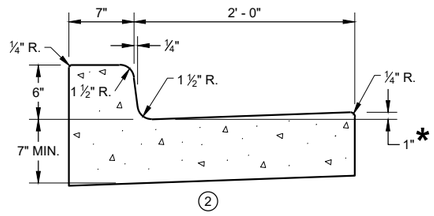
CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE UNIT SUPERVISOR

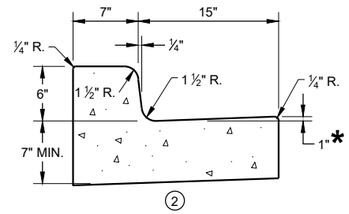
FHWA

6
SDD 08D05 - 20g

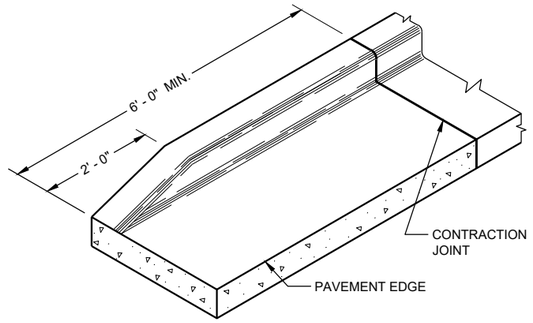


CONCRETE CURB AND GUTTER 31" ①

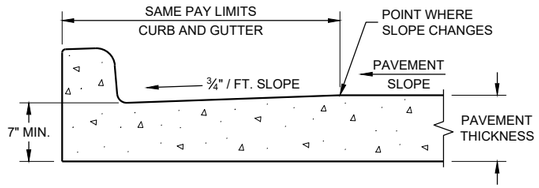
*TO BE MEASURED TO A MAXIMUM OF 3" WHERE DRAINAGE PROBLEMS EXIST.



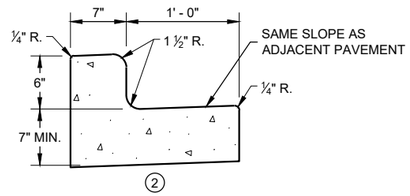
CONCRETE CURB AND GUTTER 22" ①



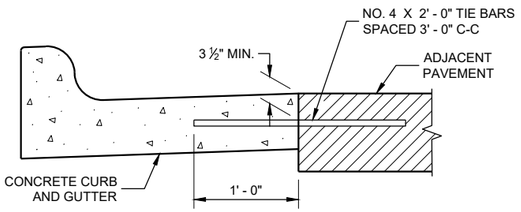
END SECTIONCURB AND GUTTER



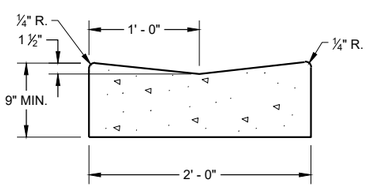
PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB AND GUTTER



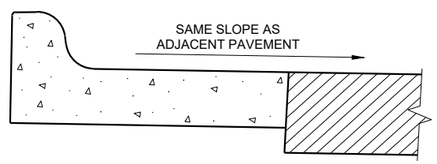
CONCRETE CURB AND GUTTER 19" ①



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.

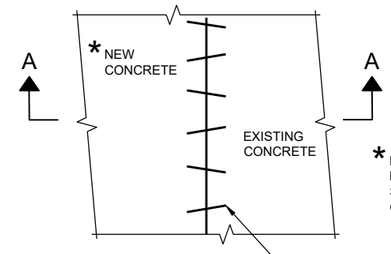
INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

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".

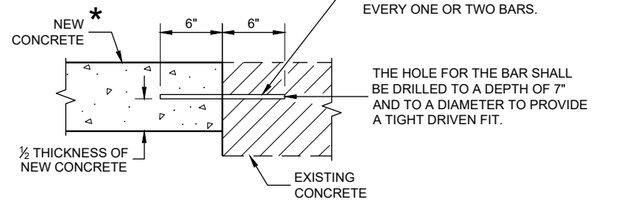
② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE COURSE PROVIDED A 7" MINIMUM GUTTER THICKNESS IS MAINTAINED.

③ WHEN HIGH SIDE CURB SECTION IS REQUIRED, THE LOCATION(S) WILL BE NOTED ON THE PLANS



PLAN VIEW

*EXISTING AND NEW CONCRETE MAY BE CURB AND GUTTER, SURFACE DRAINS, PAVEMENT OR OTHER CONCRETE STRUCTURE.



SECTION A - A

PAVEMENT TIES

CONCRETE GUTTER, CURB AND GUTTER AND PAVEMENT TIES

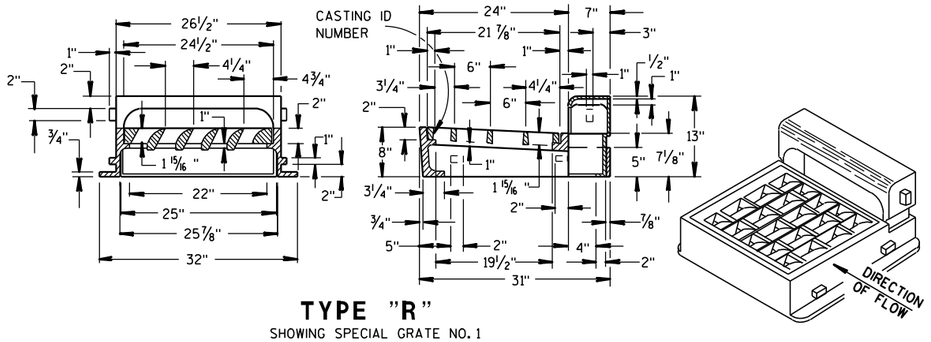
(For Optional use in Milwaukee Co. Only)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER
FHWA

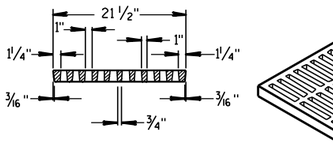
6
SDD 08D16 - 11

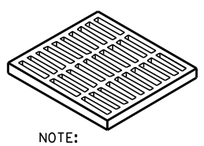
INLET COVERS



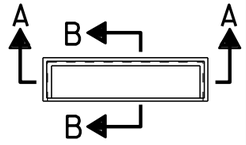
TYPE "R"

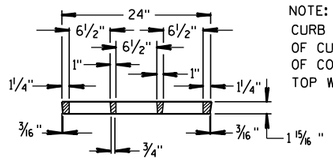
SHOWING SPECIAL GRATE NO. 1
(TO BE NOTED AS R-1 IN DRAINAGE TABLE)



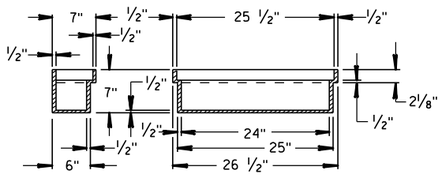


(APPROX. WEIGHT - 510 LBS.)
FRAME..... 245 LBS.
CURB..... 120 LBS.
GRATE..... 145 LBS.





NOTE:
CURB PLUG USED IN PLACE OF CURB BOX IN ABSENCE OF CONC. CURB. FILL TO TOP WITH CONCRETE.



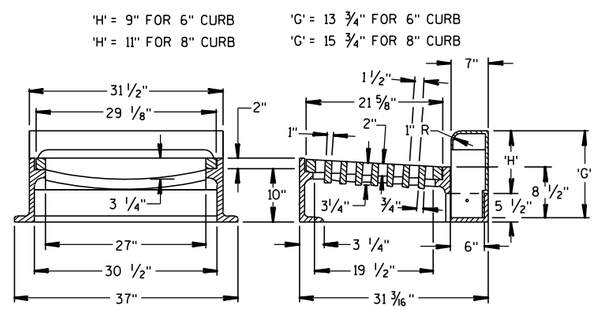
GRATE FOR TYPE "R" INLET COVER

(GRATE..... 150 LBS.)
(TO BE USED UNLESS OTHERWISE NOTED IN DRAINAGE TABLE)

SECTION B-B SECTION A-A

SPECIAL CURB PLUG "P"

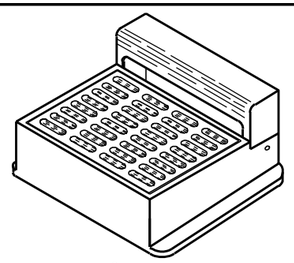
(CURB PLUG..... 85 LBS.)
(TO BE NOTED AS R-P IN DRAINAGE TABLE)

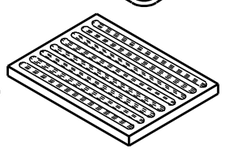


'H' = 9" FOR 6" CURB
'H' = 11" FOR 8" CURB
'G' = 13 3/4" FOR 6" CURB
'G' = 15 3/4" FOR 8" CURB

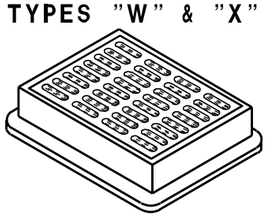
TYPE "W"

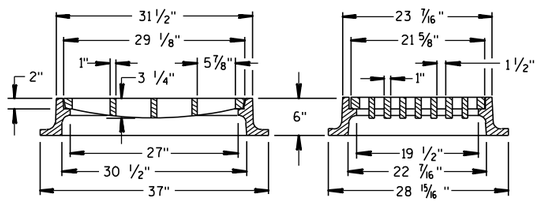
(APPROX. WEIGHT - 670 LBS.)
FRAME..... 350 LBS.
CURB BOX..... 135 LBS.
GRATE..... 185 LBS.





ALTERNATE GRATE
(FOR EXPRESSWAY RAMPS)
TYPES "W" & "X"

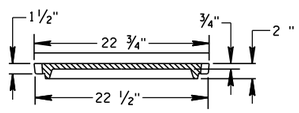




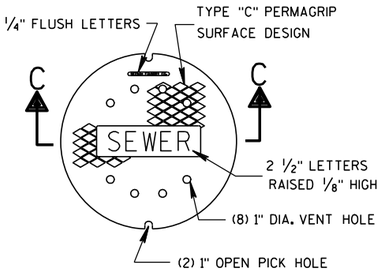
TYPE "X"

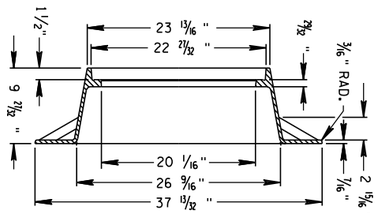
(APPROX. WEIGHT - 470 LBS.)

MANHOLE COVER



SECTION C-C





TYPE "Q"

(APPROX. WEIGHT - 290 LBS.)

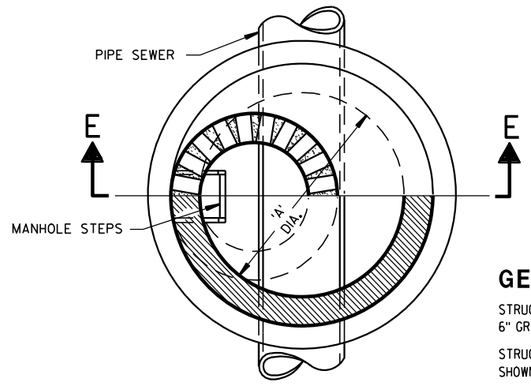
TABLE OF DIMENSIONS

TYPE	'A'	'B'	'C'
11	3'-6"	2'-8"	12" - 36"*
12	4'-0"	3'-8"	12" - 42"**
13	5'-0"	5'-8"	42" - 48"
14	6'-0"	7'-8"	54" - 60"

* 12" - 21" FOR PRECAST MANHOLES
** 12" - 24" FOR PRECAST MANHOLES

THE FIRST STEP SHALL BE PLACED 16" ABOVE THE BENCH.

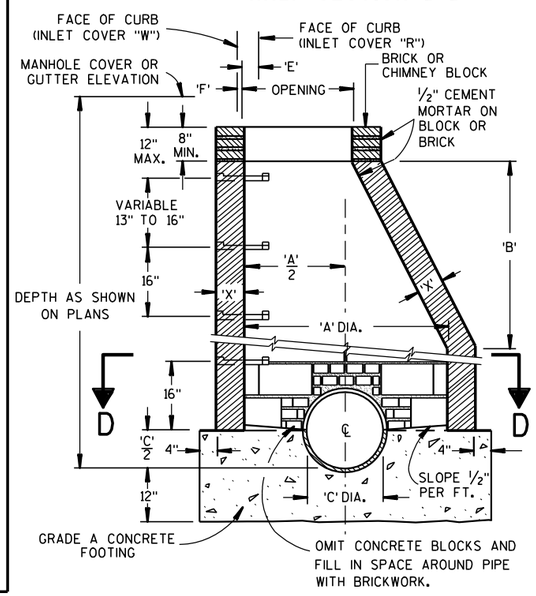
MANHOLE



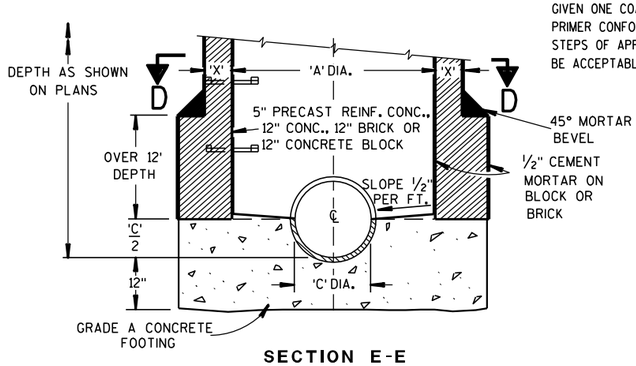
HALF SECTION D-D

TABLE OF OPENING DIMENSIONS

COVER TYPE	COVER DESCRIPTION	OPENING	'E'	'F'
"O"	ROUND	2'-2" DIA.	—	—
"W"	CURB BOX	1'-8" X 2'-6"	—	1"
"X"	INLET	1'-10" X 2'-6"	—	—
"R"	CURB BOX	2'-0" X 2'-1"	4"	—



SECTION E-E



SECTION E-E

TYPES 11, 12, 13 & 14

GENERAL NOTES

STRUCTURE WALL THICKNESS 'X' TO BE 8" BRICK, 6" CONCRETE BLOCK, 6" GRADE A CONCRETE OR 5" PRECAST REINFORCED CONCRETE.

STRUCTURE FOOTINGS ARE TO BE GRADE A CONCRETE OF THE THICKNESS SHOWN IN THE DETAIL OR 5" PRECAST REINFORCED CONCRETE.

REINFORCEMENT FOR 5" PRECAST REINFORCED CONCRETE SHALL BE 6" X 6" W16 X W16 WELDED SREEL WIRE FABRIC AND SHALL BE EMBEDDED 2" CLEAR.

PRECAST INLET UNITS AND BASES SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

PRECAST CONCRETE FLAT SLAB TOPS MAY BE USED ON THE STRUCTURES. THE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6" IN DEPTH, WHICH MEETS THE REQUIREMENTS FOR GRANULAR BACK-FILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

SET FRAME ELEVATION 0.03 FT. LOWER THAN ELEVATION INDICATED ON THE PLANS.

THE CONTRACTOR MAY FORM AND POUR MONOLITHIC CONCRETE INVERT PROVIDED THE PIPE ENDS ARE EXTENDED INTO THE M.H. AND NOT TERMINATED WITHIN THE M.H. WALLS.

MANHOLE STEPS

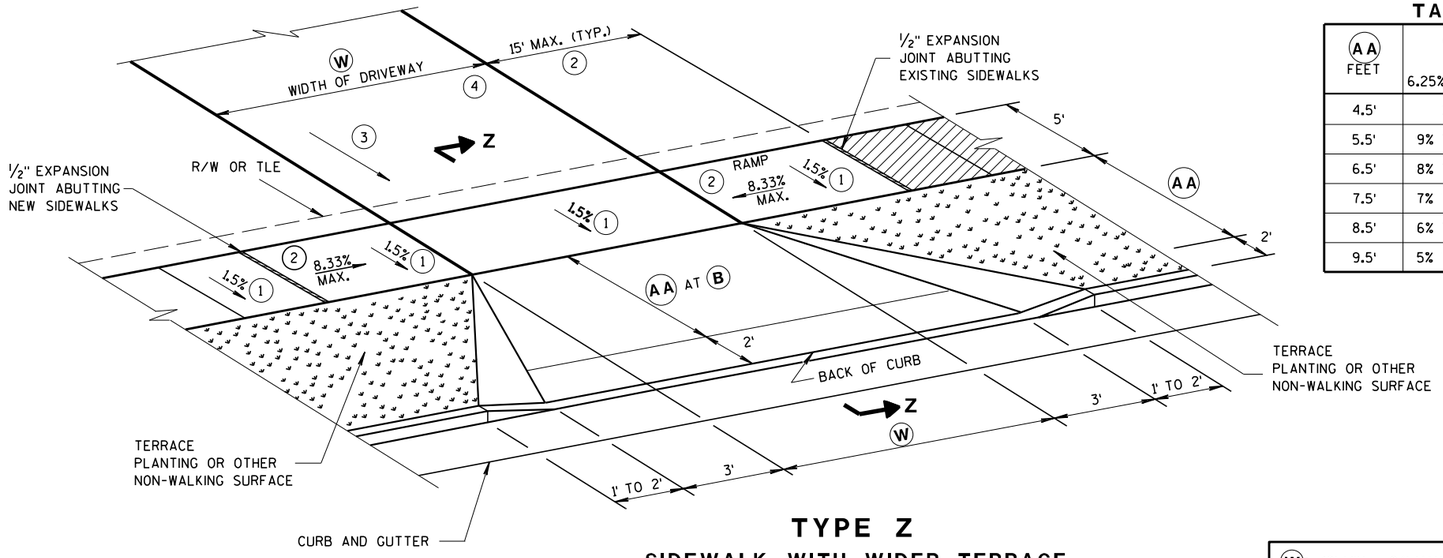
STEPS MEETING THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH; 16 INCH C-C MAX. SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM WALL EMBEDMENT OF 3 INCHES IN PRECAST MANHOLE AND 6 INCHES IN 8 INCH BRICK OR 6 INCH BLOCK MANHOLE; TREAD OF STEP SHALL HAVE A NON-SKID SURFACE AND BE FLANKED BY CLEATS, WITH A MINIMUM OF 10 INCHES CLEAR BETWEEN CLEATS, TO PREVENT FOOT SLIPPING OFF THE EDGE CLEATS SHALL BE A MINIMUM OF 3/4 INCH HIGH BY 3/4 INCH WIDE HAVING A MINIMUM THICKNESS OF 5/8 INCH. STEPS SHALL BE CAPABLE OF SUPPORTING A CONCENTRATED LOAD OF 300 LBS. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

SOLID ALUMINUM STEPS SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 0.75 INCH. ALUMINUM SURFACES TO BE EMBEDDED IN CONCRETE SHALL BE GIVEN ONE COAT OF SUITABLE QUALITY PAINT, SUCH AS ZINC CHROMATE PRIMER CONFORMING TO FEDERAL SPECIFICATION TT-P-645 OR EQUIVALENT. STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCING BAR WILL BE ACCEPTABLE.

MANHOLES, MANHOLE & INLET COVERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/12/2011 — DATE
/S/ Jerry H. Zogg — ROADSIDE STANDARDS ENGINEER
FHWA



TYPE Z

SIDEWALK WITH WIDER TERRACE

TERRACE VARIES 7 TO 12 FEET

TABLE Z

(AA) FEET	(B) % 6.25% GUTTER	(B) % 4% GUTTER
4.5'	11.5%	9% TO 11.5%
5.5'	9% TO 11.5%	8% TO 11.5%
6.5'	8% TO 11.5%	6% TO 11.5%
7.5'	7% TO 11.5%	6% TO 11.5%
8.5'	6% TO 11.5%	5% TO 11.5%
9.5'	5% TO 11.5%	4% TO 11.5%

(W): 12' MIN. - 24' MAX. RESIDENTIAL AND NON-COMMERCIAL (PE & FE)

16' MIN. - 35' MAX. COMMERCIAL (CE)

GENERAL NOTES

PROVIDE CONSTRUCTION JOINTS ALONG THE CENTER OF THE CONCRETE FOR DRIVEWAYS UNDER 20 FEET IN WIDTH AND AT THE THIRD POINTS OVER 20 FEET IN WIDTH.

(W) IS SHOWN ON PLAN AND PROFILE SHEETS.

OFFSETS, ELEVATIONS, AND PERCENT GRADE ARE SHOWN ON THE CROSS SECTIONS.

(1) CONSTRUCTION TOLERANCE OF 0.5% ± FOR SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

(2) THE SIDEWALK RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAXIMUM LENGTH, THE RUNNING SLOPE OF THE SIDEWALK SHALL BE AS FLAT AS FEASIBLE AND NOT EXCEED THE LONGITUDINAL GRADE OF THE ROADWAY.

(3) DRIVEWAY SLOPES: DESIRABLE MAXIMUM

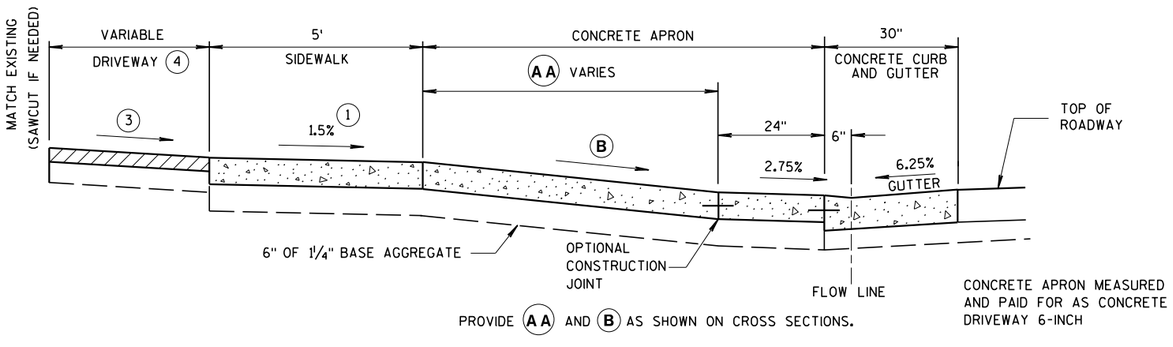
10.5% UP AWAY FROM SIDEWALK (SAG)

8.5% DOWN AWAY FROM SIDEWALK (CREST)

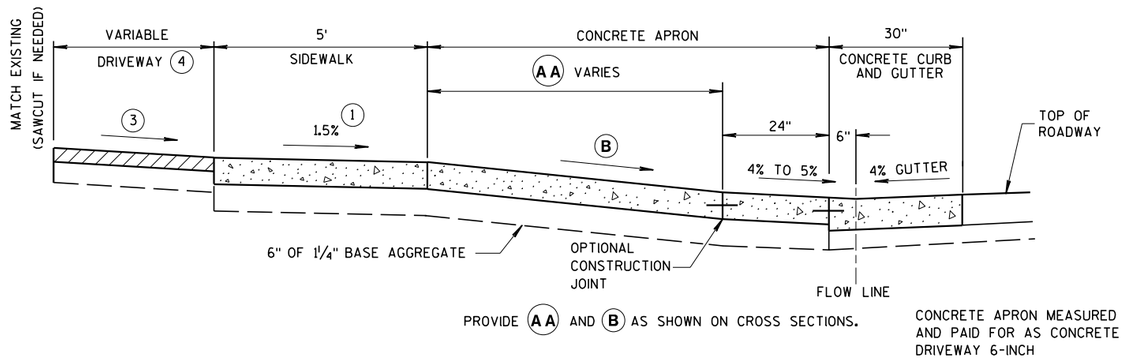
ABSOLUTE MAXIMUM 15% FOR BOTH CREST AND SAG

(4) DRIVEWAY TYPES

- 6-INCH CONCRETE DRIVEWAY PAVEMENT OVER 6-INCH BASE AGGREGATE
- 2-INCH TO 3-INCH ASPHALTIC SURFACE OVER 6-INCH BASE AGGREGATE
- 6-INCH BASE AGGREGATE (MAY BE INCREASED FOR CLAY SUBGRADES)



6.25% GUTTER SLOPE



4% GUTTER SLOPE

NOTE: SIDEWALK MAY BE DEPRESSED IN DRIVEWAY AREAS FOR **B** VALUES NOT SHOWN IN TABLE Z.

SIDEWALK WITHIN THE LIMITS OF THE DRIVEWAY PAID FOR AS CONCRETE DRIVEWAY 6-INCH.

SEPARATE PAYMENT FOR BASE AGGREGATE WILL BE MADE.

SECTION Z-Z

DRIVEWAY DETAIL WITH CONCRETE CURB & GUTTER

(URBAN AND SUBURBAN)

NOT TO SCALE

DRIVEWAY AND SIDEWALK RAMPS TYPE Z

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

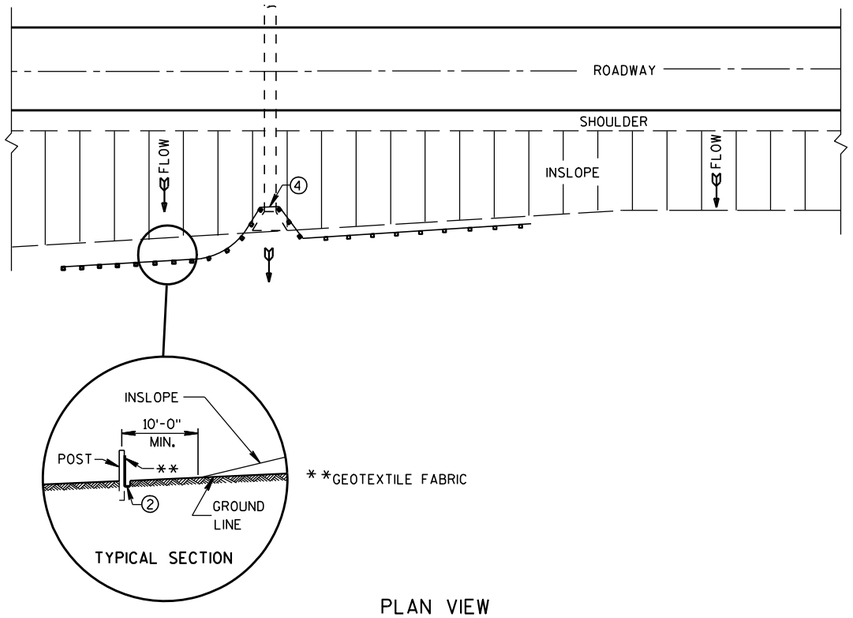
APPROVED
March 2018 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS 497 DEVELOPMENT
UNIT SUPERVISOR
FHWA

6

S.D.D. 8 D 19-2

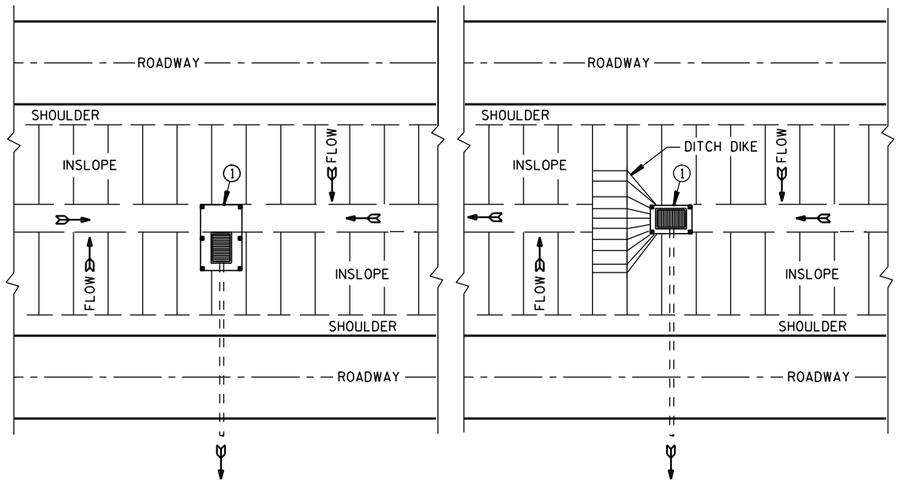
6

S.D.D. 8 D 19-2



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

GENERAL NOTES

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

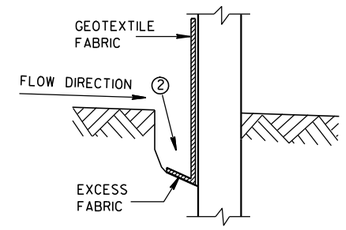
① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.

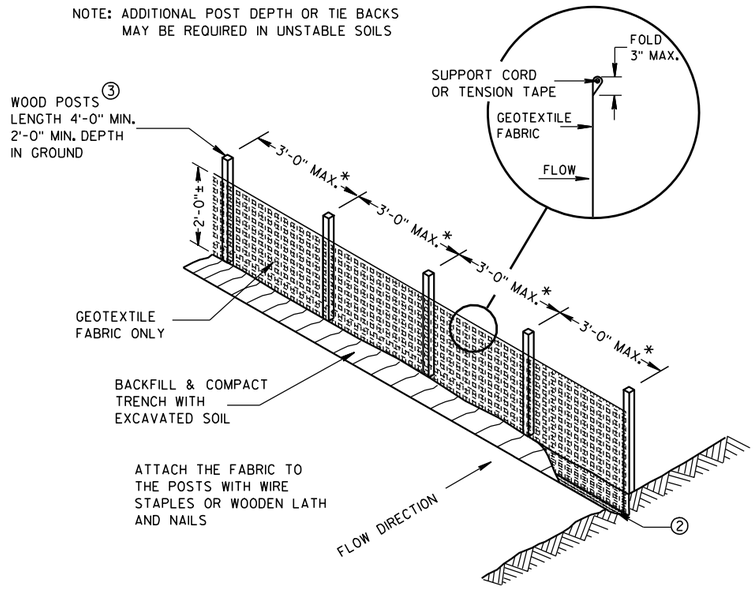
③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.

④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.

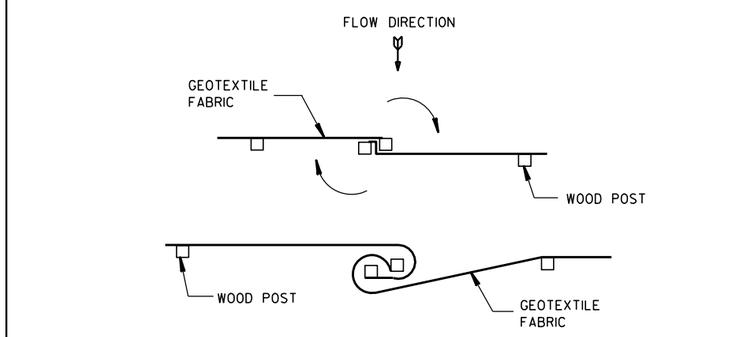
⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



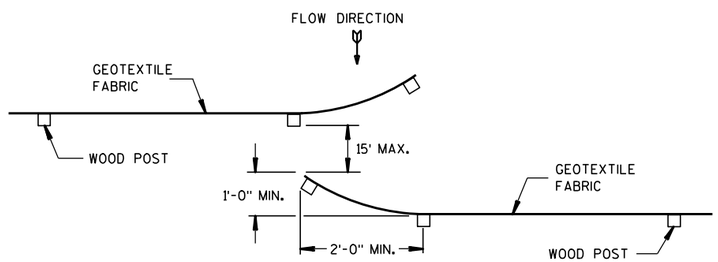
TRENCH DETAIL



SILT FENCE

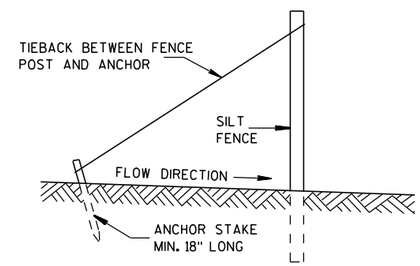


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE ⑤



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

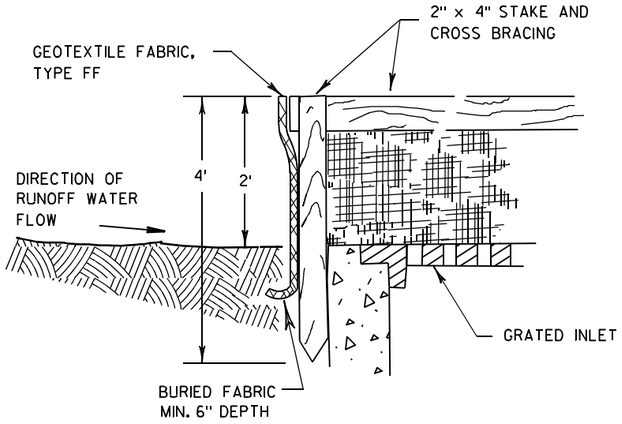
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

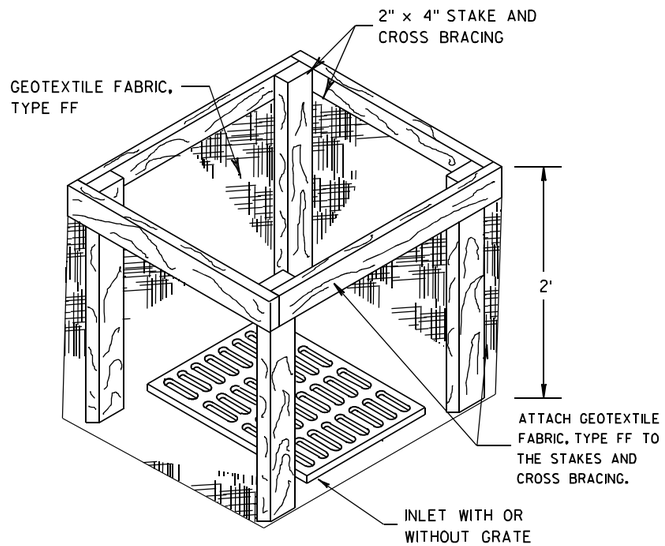
6

S.D.D. 8 E 9-6

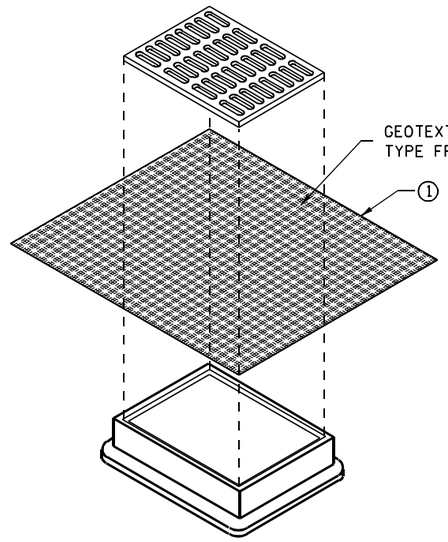
6

S.D.D. 8 E 9-6



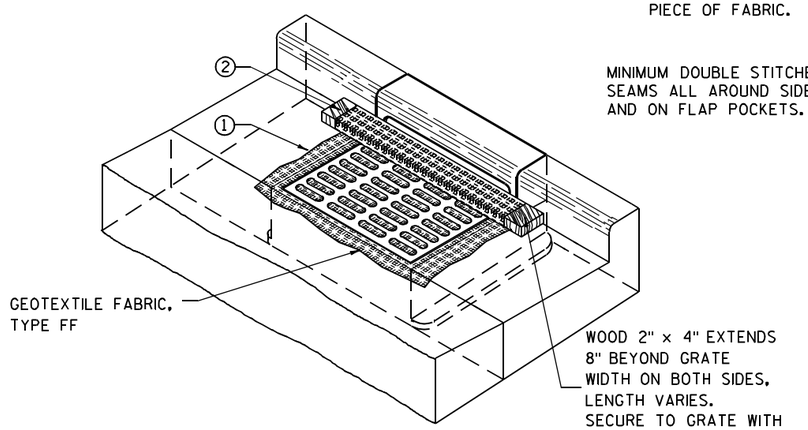


INLET PROTECTION, TYPE A

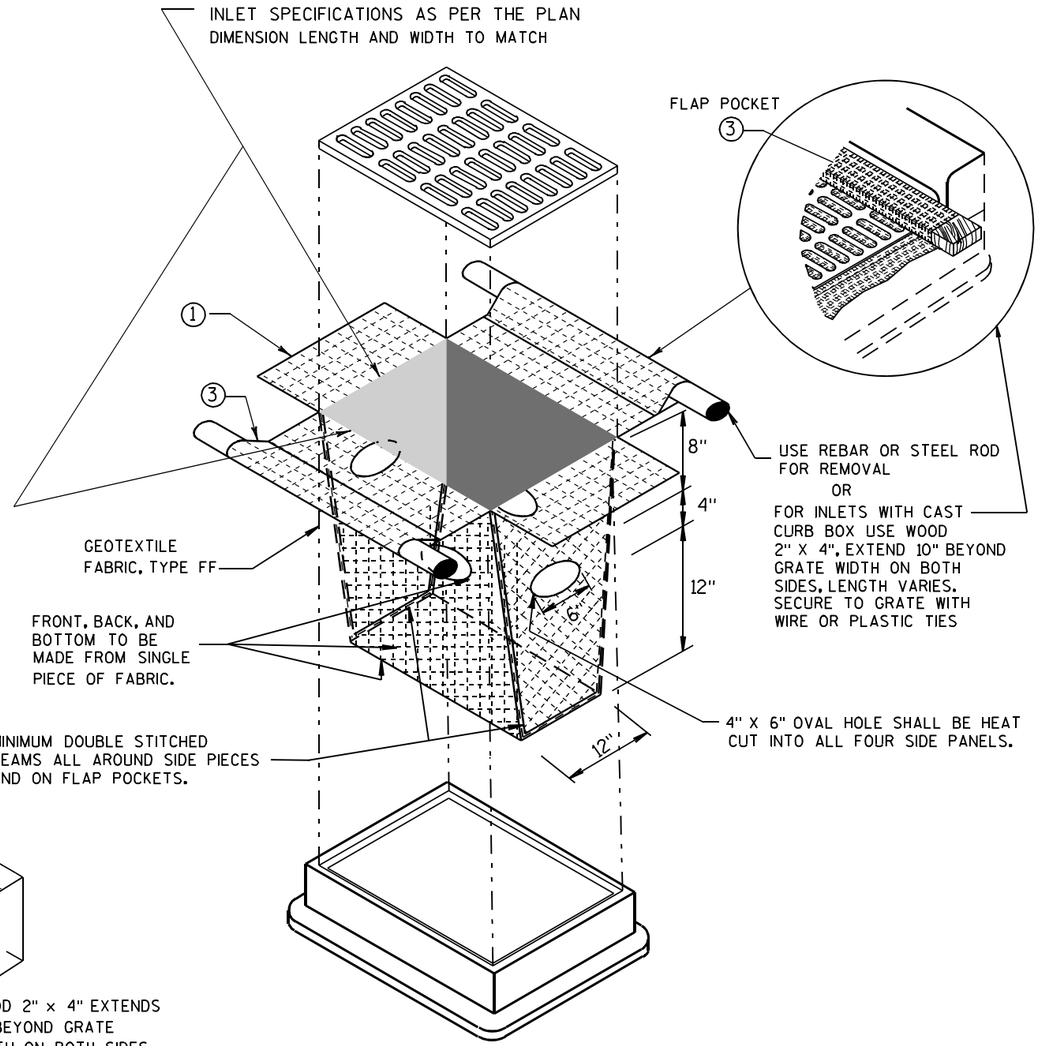


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

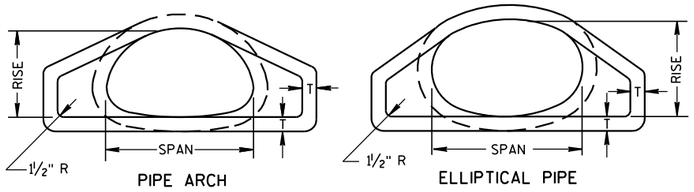
10/16/02
DATE

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

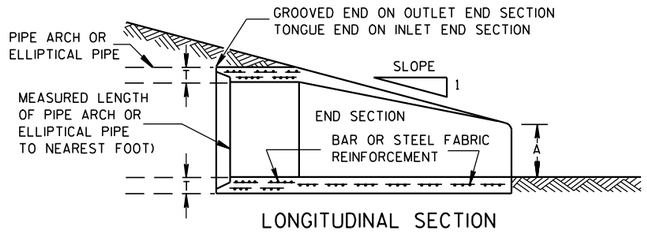
FHWA

6

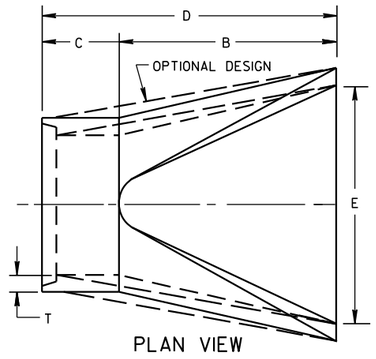
S.D.D. 8 E 10-2
S.D.D. 8 E 10-2



END VIEW

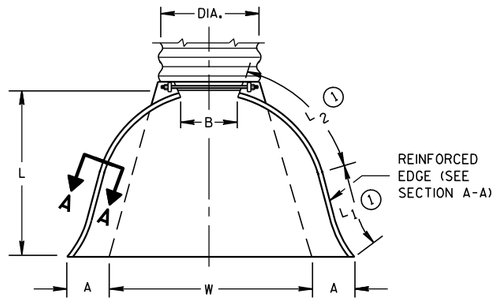


LONGITUDINAL SECTION

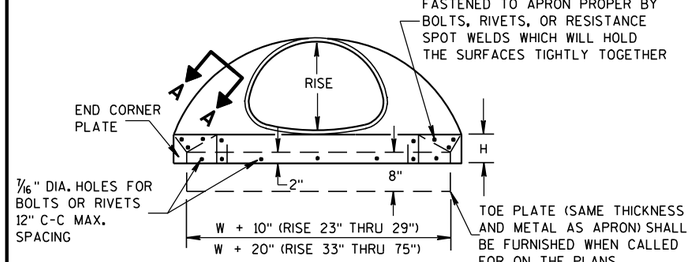


PLAN VIEW

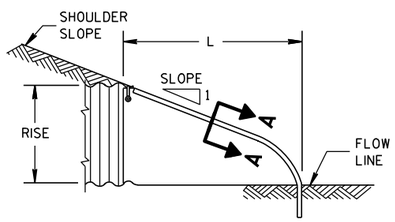
CONCRETE ENDWALLS



PLAN VIEW

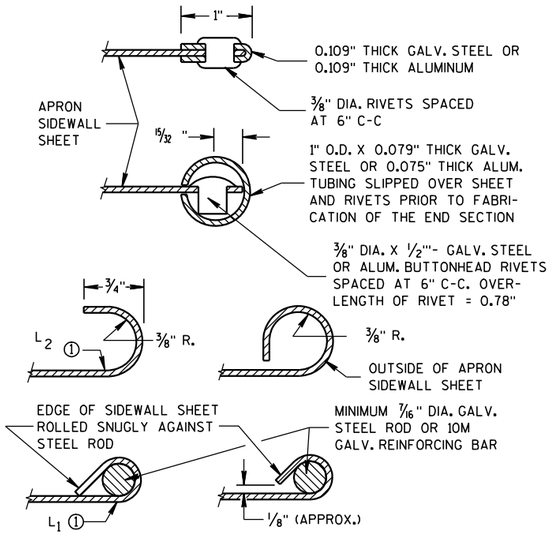


END VIEW



SIDE ELEVATION

METAL ENDWALLS



SECTION A-A

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

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19⅜	36	2½ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21¾	42	2½ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27½	48	2½ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37⅝	60	2½ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45⅜	75	2½ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	2½ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2½ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72¾	102	2¼ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82¼	114	2¼ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
48	53	41	.109	.105	18	26	12	63	24	72¾	90	2½ to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82¼	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1½ to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1½ to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1½ to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1½ to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1½ to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1½ to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL SEE GENERAL NOTES

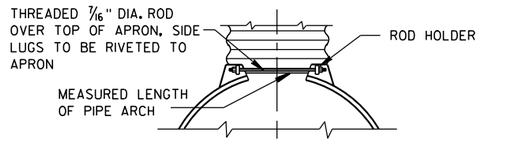
REINFORCED CONCRETE PIPE ARCH

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

REINFORCED CONCRETE ELLIPTICAL PIPE

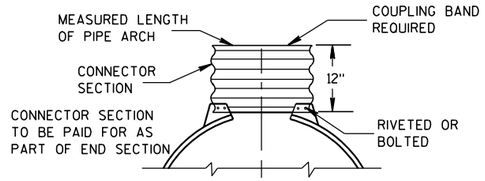
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48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

**NOMINAL SIZE



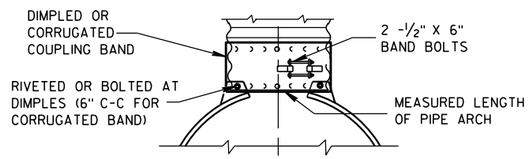
TYPE 2

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



TYPE 3

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



TYPE 5

ALTERNATE FOR:

ALL SIZES CORRUGATED PIPE ARCHES

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

CONNECTION DETAILS

GENERAL NOTES

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

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

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE ARCH PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

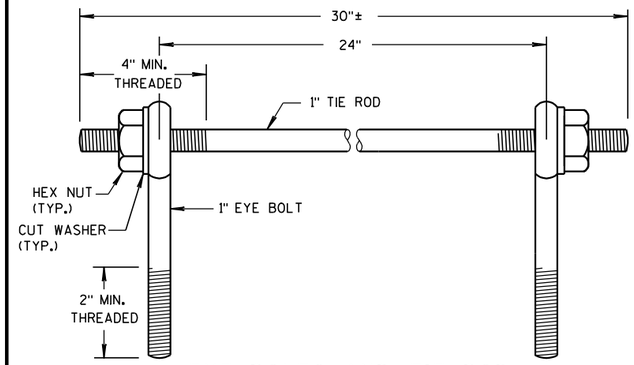
11/30/94 — DATE

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

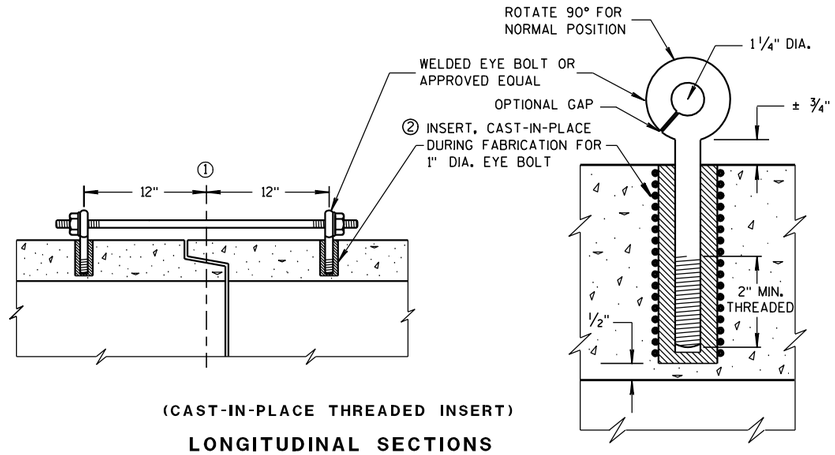
FHWA

6

S.D.D. 8 F 2-1



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

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

GENERAL NOTES

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

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

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

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

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

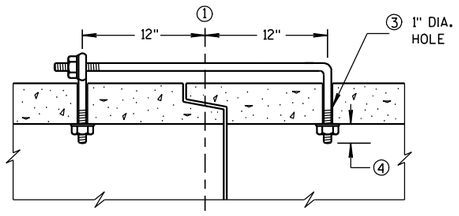
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

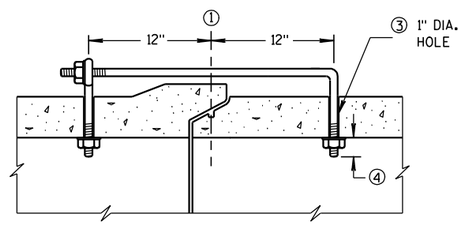
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

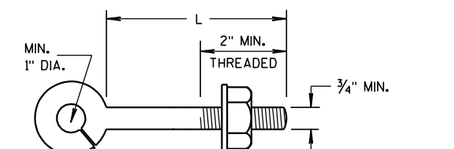


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

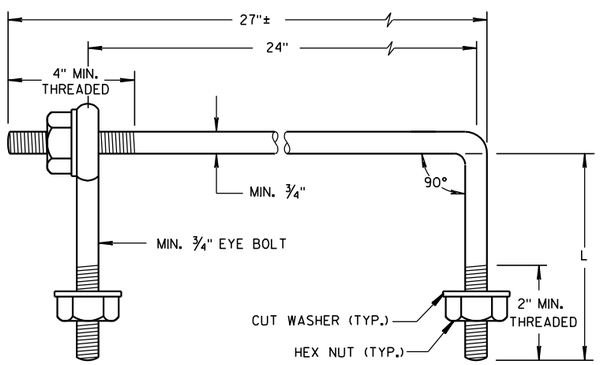
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

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



EYE BOLT AND TIE ROD

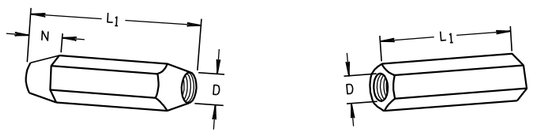
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

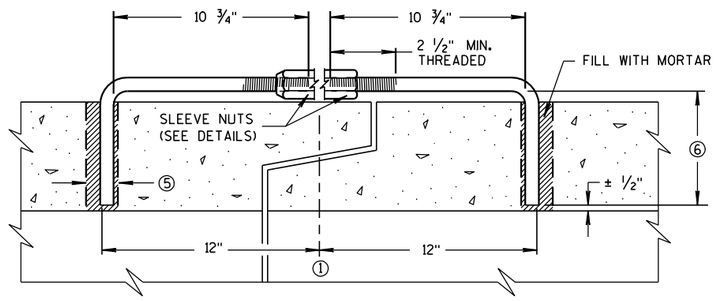
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

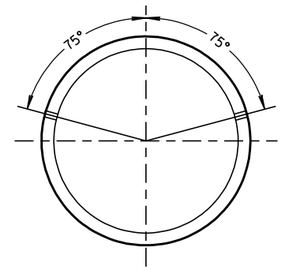
SLEEVE NUTS



LONGITUDINAL SECTION

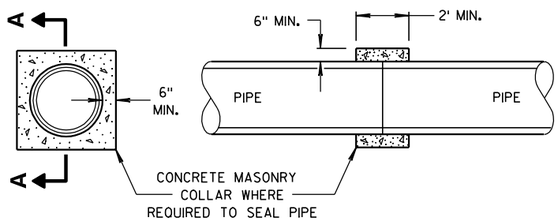
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



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

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

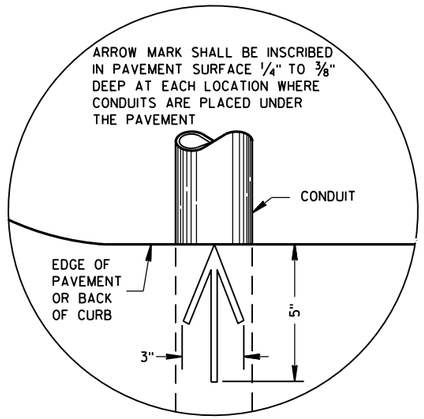
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
501
FHWA

6

S.D.D. 8 F 4-7

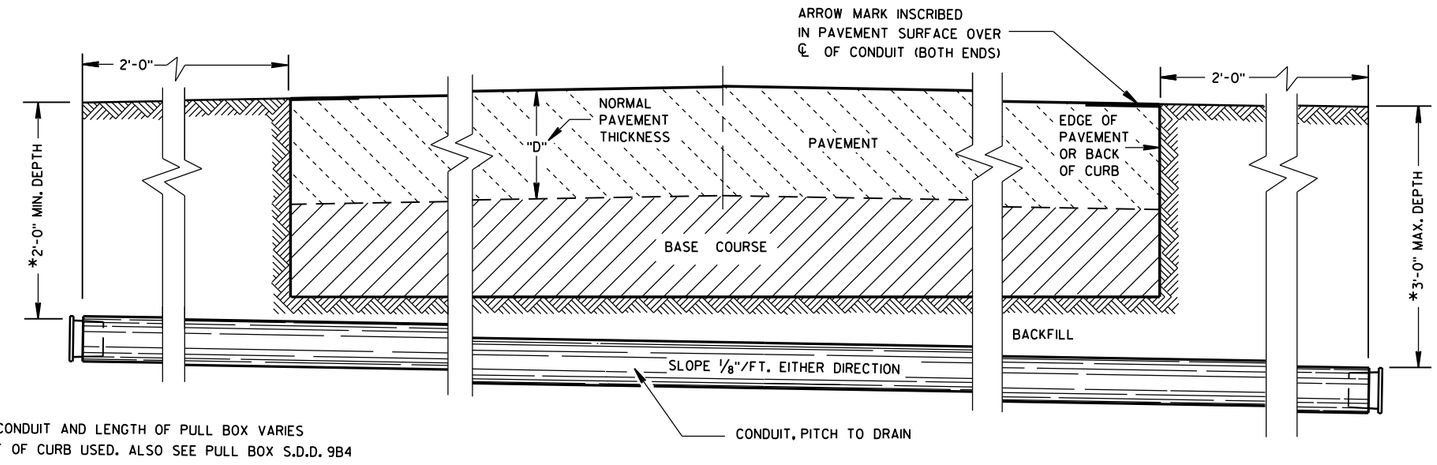
6

S.D.D. 8 F 4-7



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 502
FHWA

6

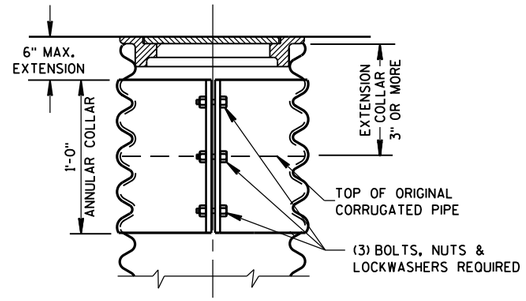
S.D.D. 9 B 2-10

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

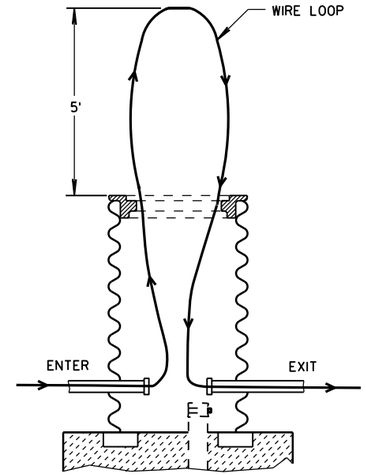
DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2	26 1/2	26 1/2	26 1/2
FRAME	F	8 1/2	8 1/2	8 1/2	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2
FRAME	G	11 1/2	11 1/2	11 1/2	17 1/2	17 1/2	17 1/2	23 1/2	23 1/2	23 1/2
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.

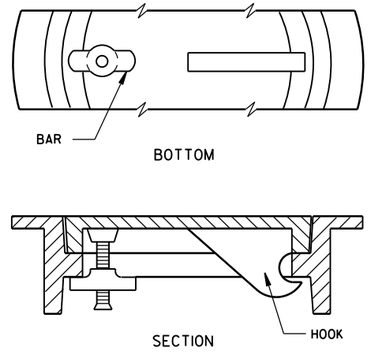
** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.



CORRUGATED PIPE EXTENDER

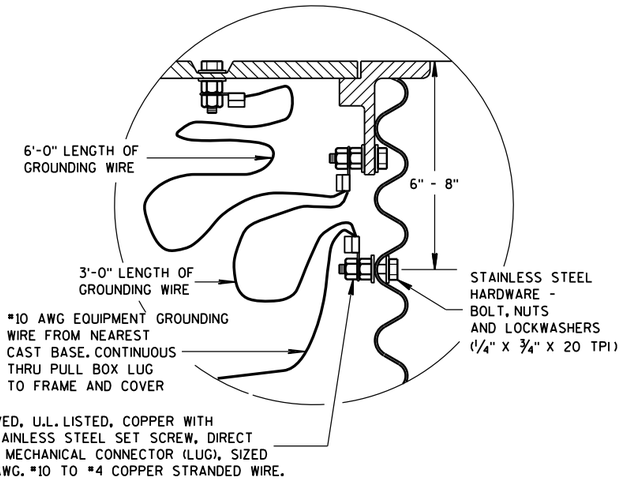


MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX



ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

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.

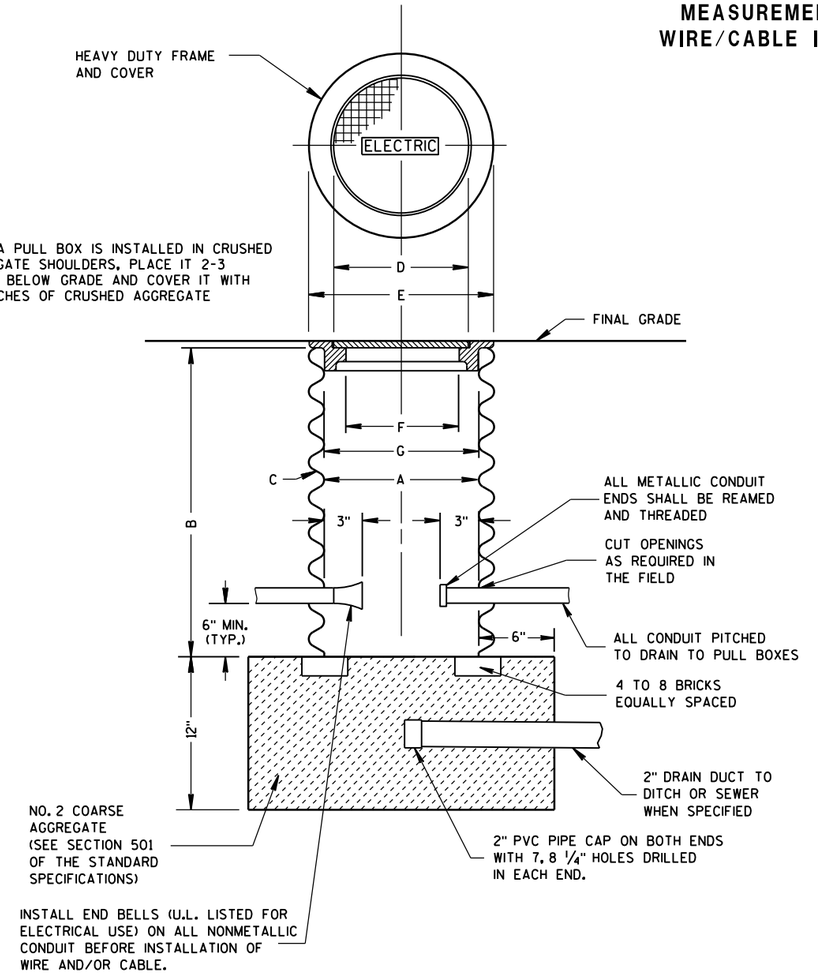
ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

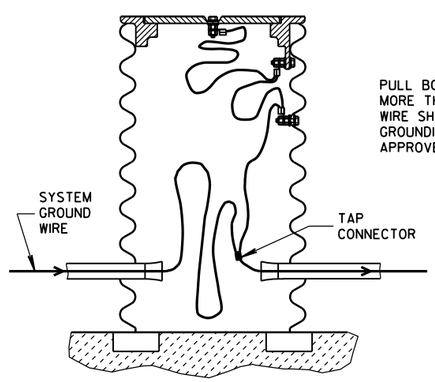
GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE.

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.



PULL BOX



PULL BOX TO NEAREST BASE DISTANCE MORE THAN 20 FEET. PULL BOX GROUND WIRE SHALL CONNECT AT SYSTEM GROUNDING WIRE. USE DEPARTMENT APPROVED TAP CONNECTOR.

EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

PULL BOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL 503
FHWA

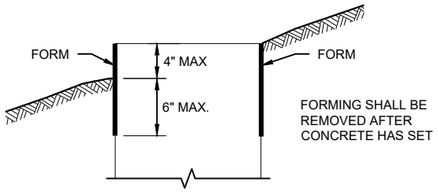
6

S.D.D. 9 B 4-11

6

S.D.D. 9 B 4-11

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.

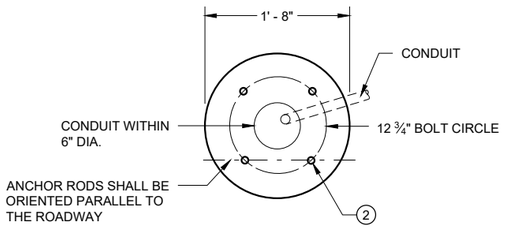
WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

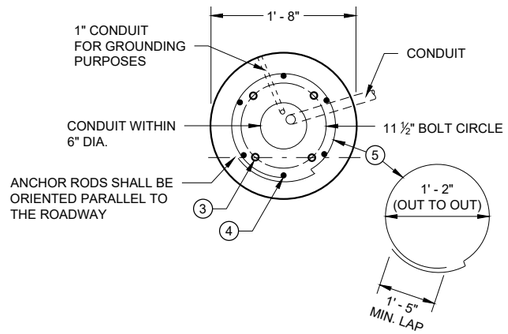
WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

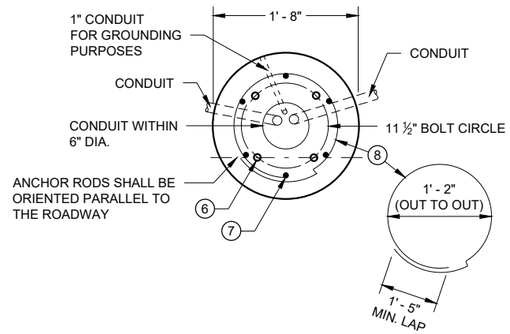
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

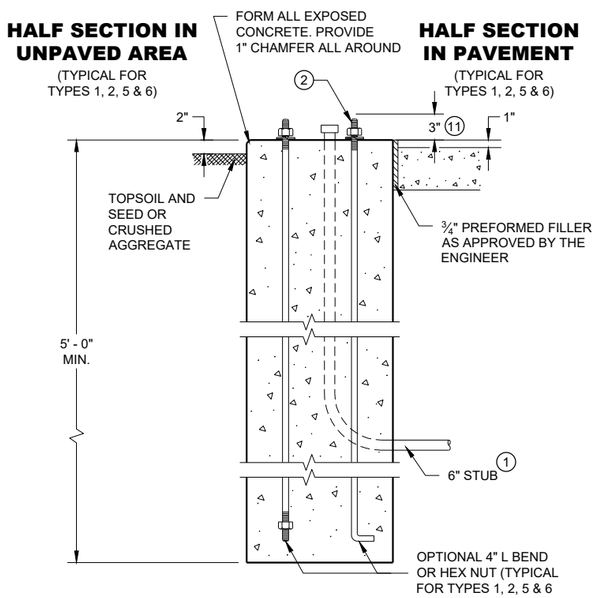
WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

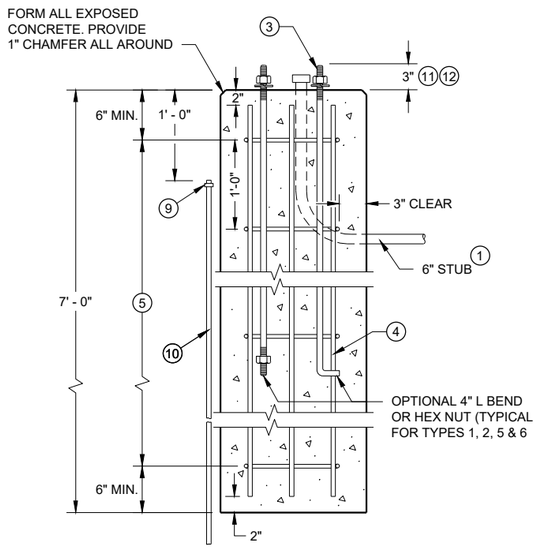




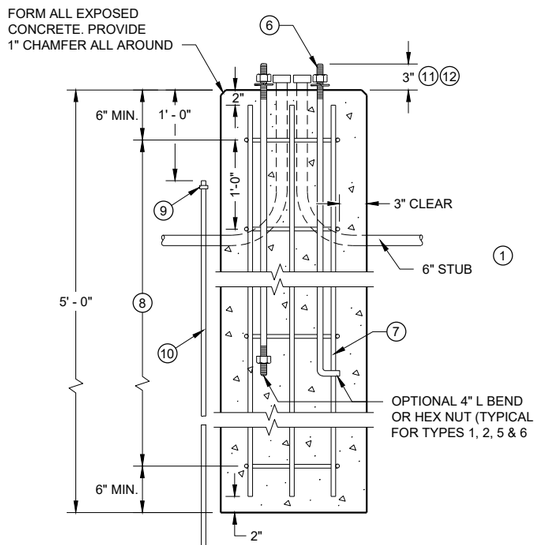




TYPE 1



TYPE 2



TYPE 5 & 6

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.

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 504
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.

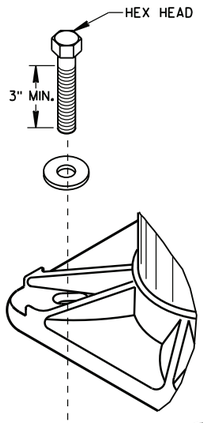
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

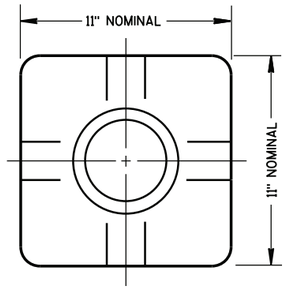
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

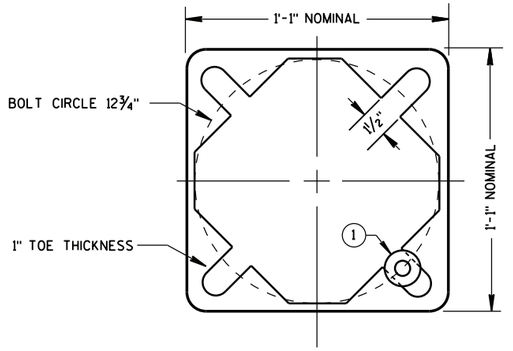
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

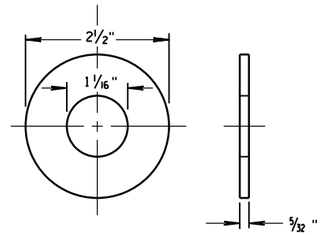




TOP VIEW
(PEDESTAL BASE)

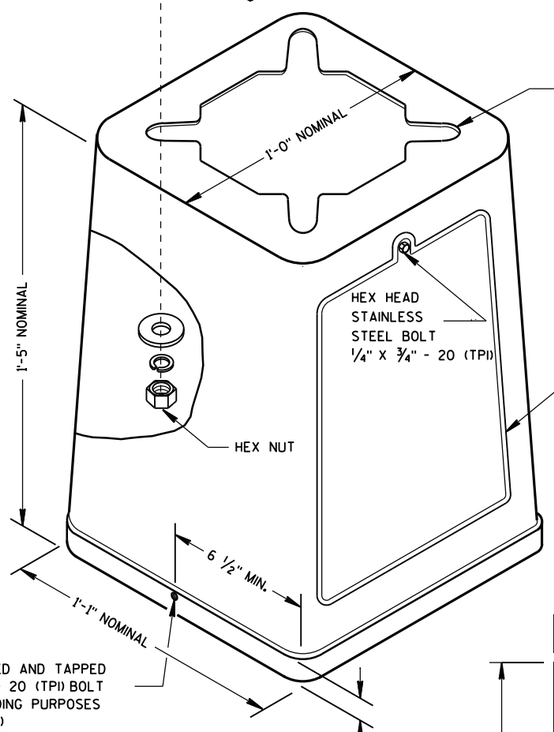


BOTTOM VIEW
(PEDESTAL BASE)

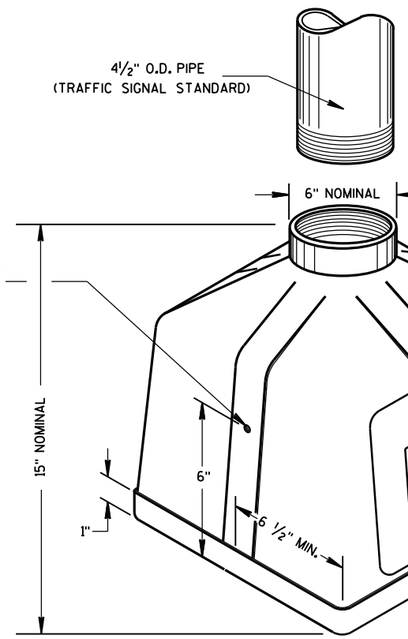


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

PEDESTAL BASE WASHER (1)

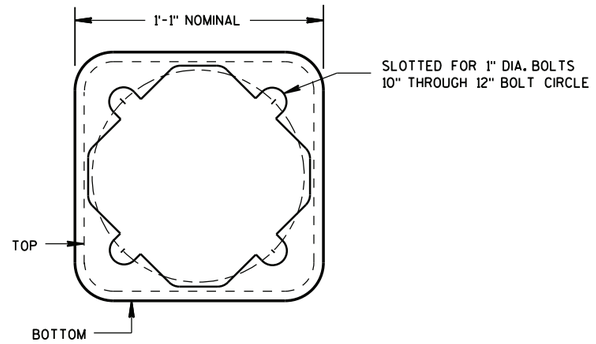


ISOMETRIC VIEW

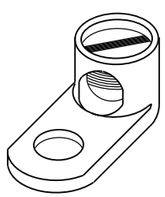


ISOMETRIC VIEW

PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)

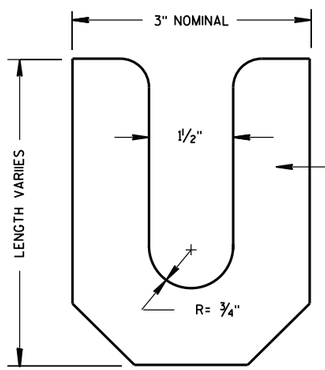


TYPICAL MECHANICAL CONNECTOR LUG

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

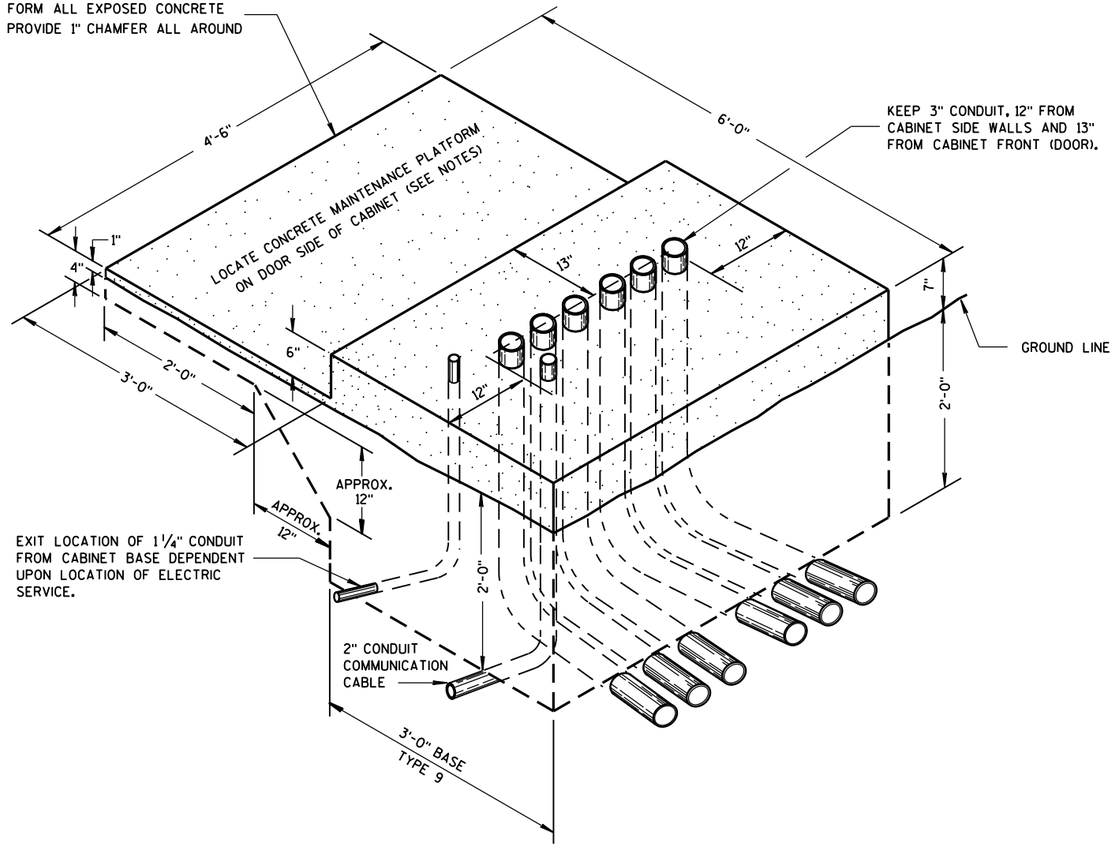
APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
505
FHWA

6

S.D.D. 9 C 3-4

6

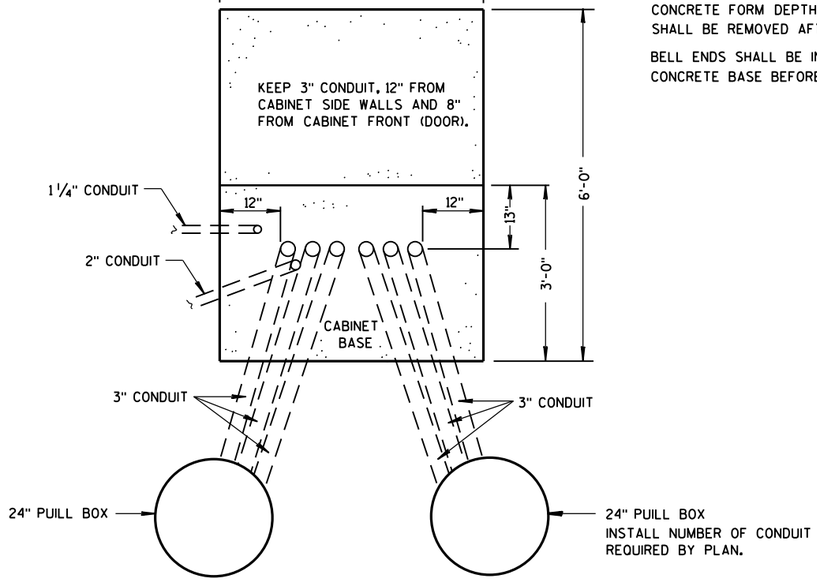
S.D.D. 9 C 3-4



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 ½ 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 NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND BE LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

PLUG ALL BELOW GRADE NONMETALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

CONDUIT EXITING THE CONCRETE BASE (SIX THREE INCH) SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL 506
FHWA

GENERAL NOTES

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

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 4 INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NONMETALLIC CONDUIT SHALL HAVE BELL END INSTALLED. ALL CONDUIT SHALL BE SLOPED TO PULL BOX.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUIT 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.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL 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.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

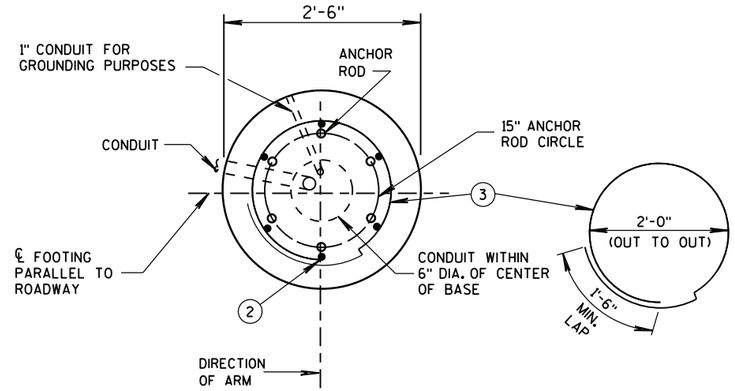
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

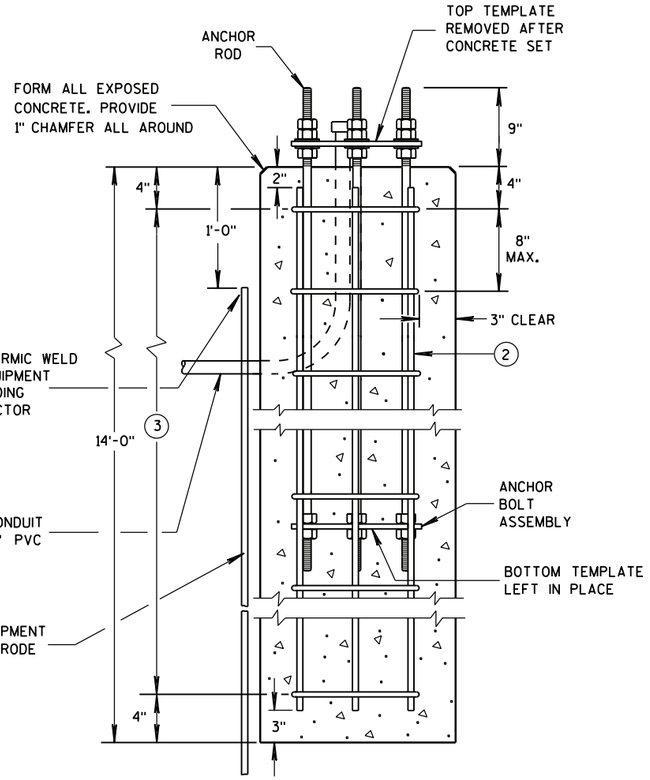
(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES. (GREATER THAN 36 INCHES IF INSTALLED IN BREAKER-RUN), EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

(2) (6) NO. 6 X 13'-7" BAR STEEL REINFORCEMENT.

(3) (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 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.

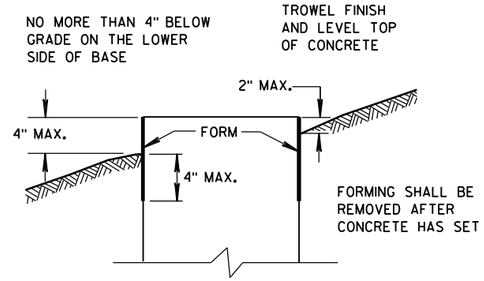




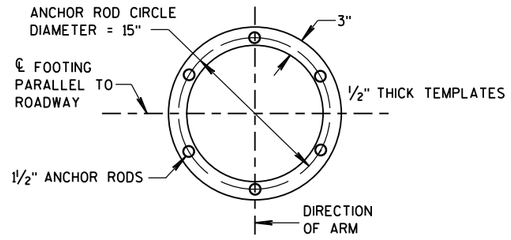
CONCRETE BASE TYPE 10

(FOR TYPE 9 & 10 & OVER HEIGHT (OH) POLES)

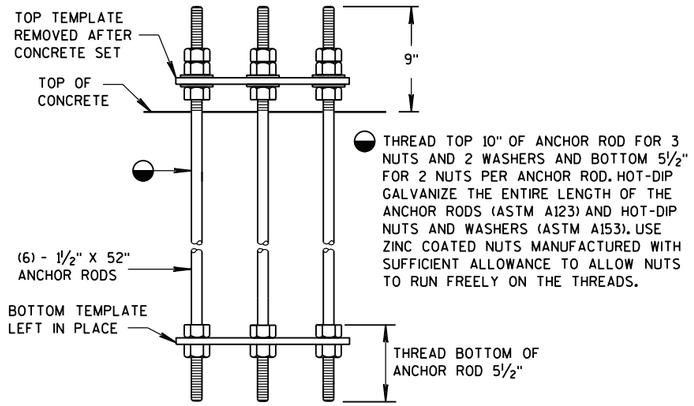
TO BE USED WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION. SEE S.D.D. 9C13-2 WHEN GROUND ELEVATION AT BASE IS LOWER THAN HIGH POINT OF ROADWAY ELEVATION.



FORMING DETAIL



TOP AND BOTTOM TEMPLATES



ANCHOR BOLT ASSEMBLY DETAIL

CONCRETE BASE TYPE 10 ANCHOR ASSEMBLY

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2017 — DATE

/S/ Ahmet Demirbilek — STATE ELECTRICAL

FHWA

6

S.D.D. 9 C 11-10

6

S.D.D. 9 C 11-10

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.

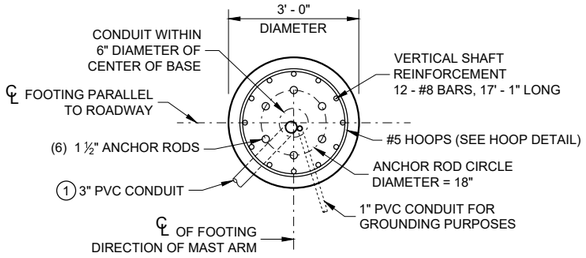
A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

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.

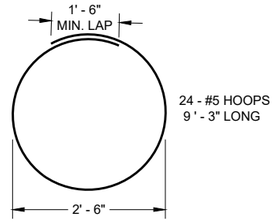
THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

(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.

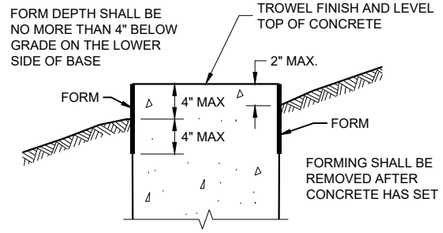
CONCRETE MASONRY.....fc = 3,500 p.s.i
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60.....fy = 60,000 p.s.i.
ANCHOR RODS, ASTM F1554 GRADE 55 (IN ACCORDANCE WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATION).....fy = 55,000 p.s.i.
TEMPLATES, ASTM A709, GRADE 36.....fy = 36,000 p.s.i.



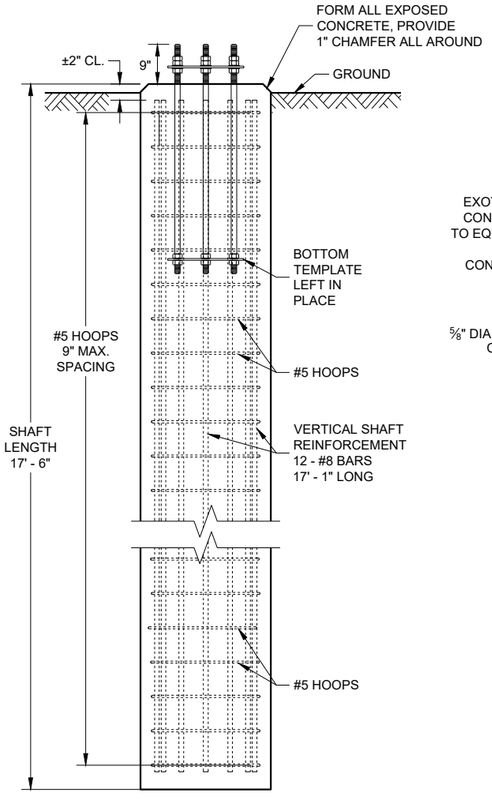
PLAN VIEW



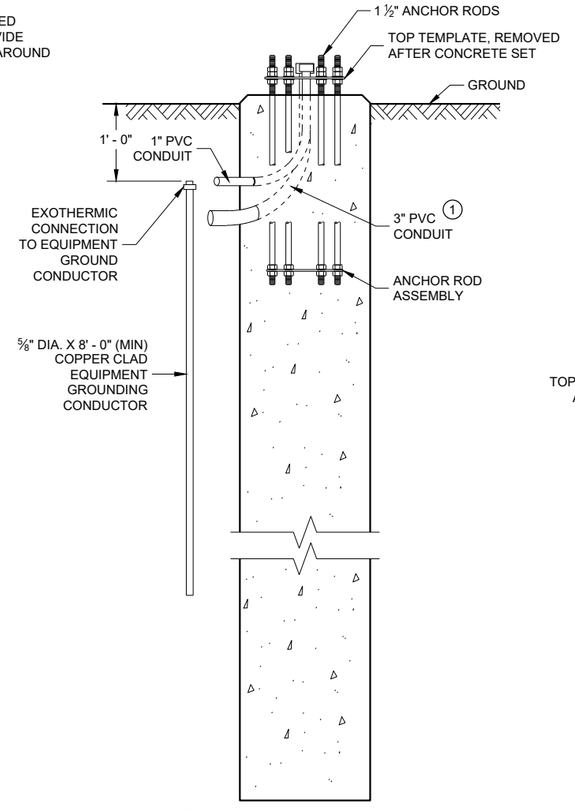
HOOP DETAIL



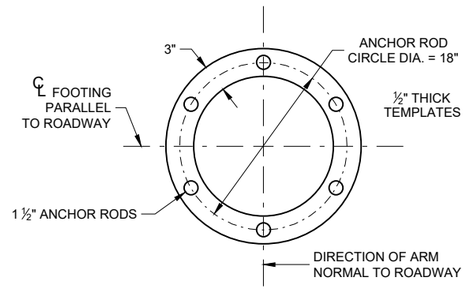
FORMING DETAIL



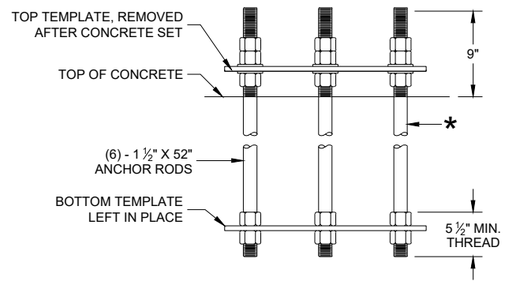
ELEVATION VIEW
(CONDUITS NOT SHOWN ON THIS VIEW FOR CLARITY)



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.

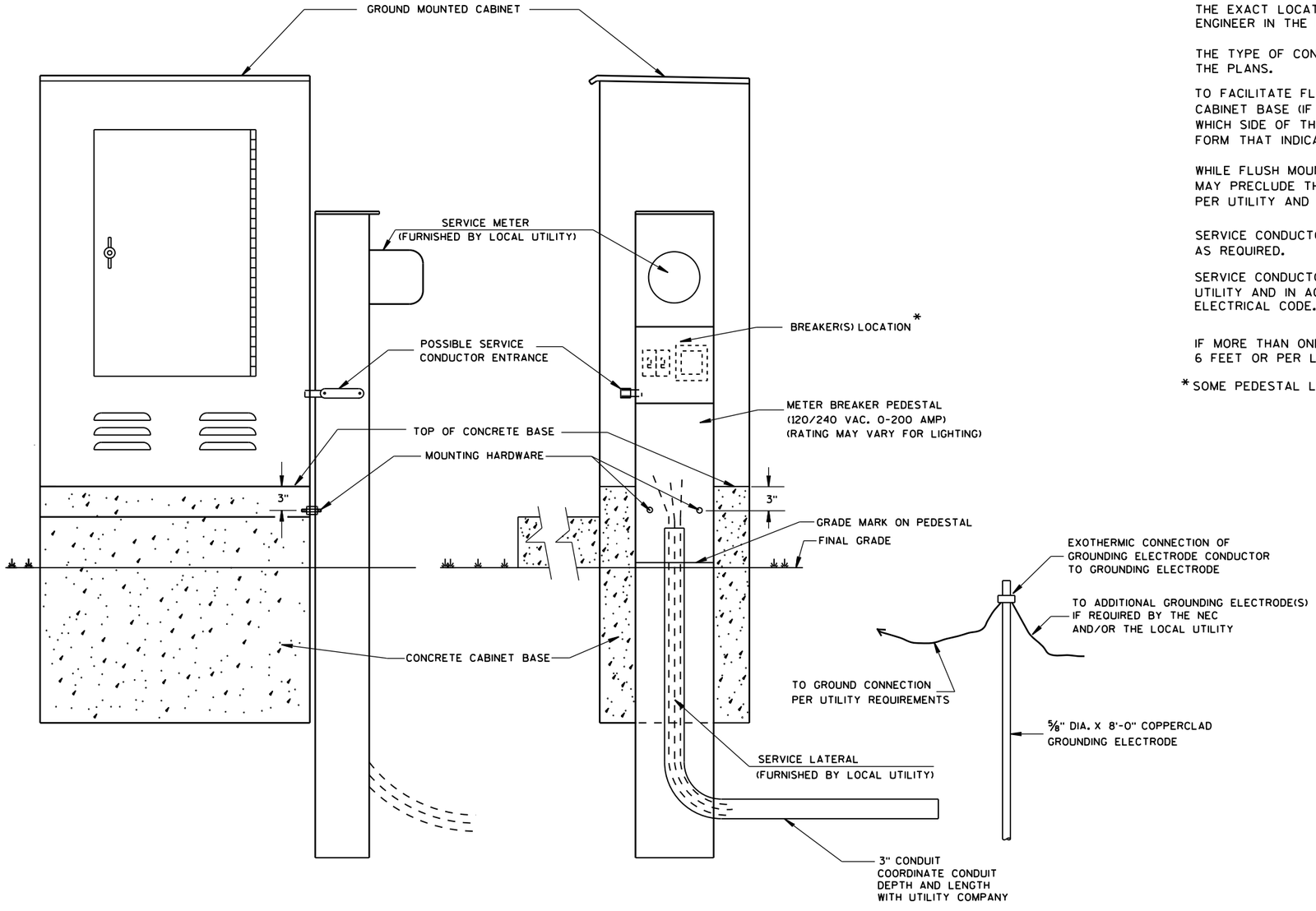
CONCRETE BASE TYPE 10 SPECIAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020 — DATE
/S/ Alex Crabtree — WIND LOADED STRUCTU PROGRAM LEADER
FHWA

6

SDD 09C15 - 01



TYPICAL CABINET SERVICE INSTALLATION

GENERAL NOTES

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

THE EXACT LOCATION OF THE METER BREAKER PEDESTAL SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE TYPE OF CONCRETE CABINET BASE TO BE INSTALLED SHALL BE AS CALLED FOR IN THE PLANS.

TO FACILITATE FLUSH MOUNTING OF THE METER BREAKER PEDESTAL AGAINST THE SIDE OF THE CABINET BASE (IF FLUSH MOUNTING POSSIBLE. CONFER WITH THE LOCAL UTILITY TO DETERMINE WHICH SIDE OF THE CONCRETE BASE THE ELECTRICAL SERVICE LATERAL WILL APPROACH. THEN FORM THAT INDICATED SIDE FOR FULL SIDE DEPTH.

WHILE FLUSH MOUNTING IS THE MOST DESIRABLE MOUNTING CONFIGURATION UTILITY REQUIREMENTS MAY PRECLUDE THIS OPTION. CONTRACTOR MUST PROVIDE UTILITY APPROVED PEDESTAL AND INSTALL PER UTILITY AND MANUFACTURERS REQUIREMENTS.

SERVICE CONDUCTOR ENTRANCES SHALL BE RIGID METALLIC CONDUIT, NIPPLES AND/OR CONDULETS AS REQUIRED.

SERVICE CONDUCTOR ENTRANCES SHALL BE SIZED AND LOCATED AS REQUIRED BY THE LOCAL UTILITY AND IN ACCORDANCE WITH APPROPRIATE ARTICLES OF THE LATEST ACCEPTED NATIONAL ELECTRICAL CODE.

IF MORE THAN ONE GROUNDING ELECTRODE IS REQUIRED, THE DISTANCE APART SHALL BE 6 FEET OR PER LOCAL UTILITY REGULATIONS.

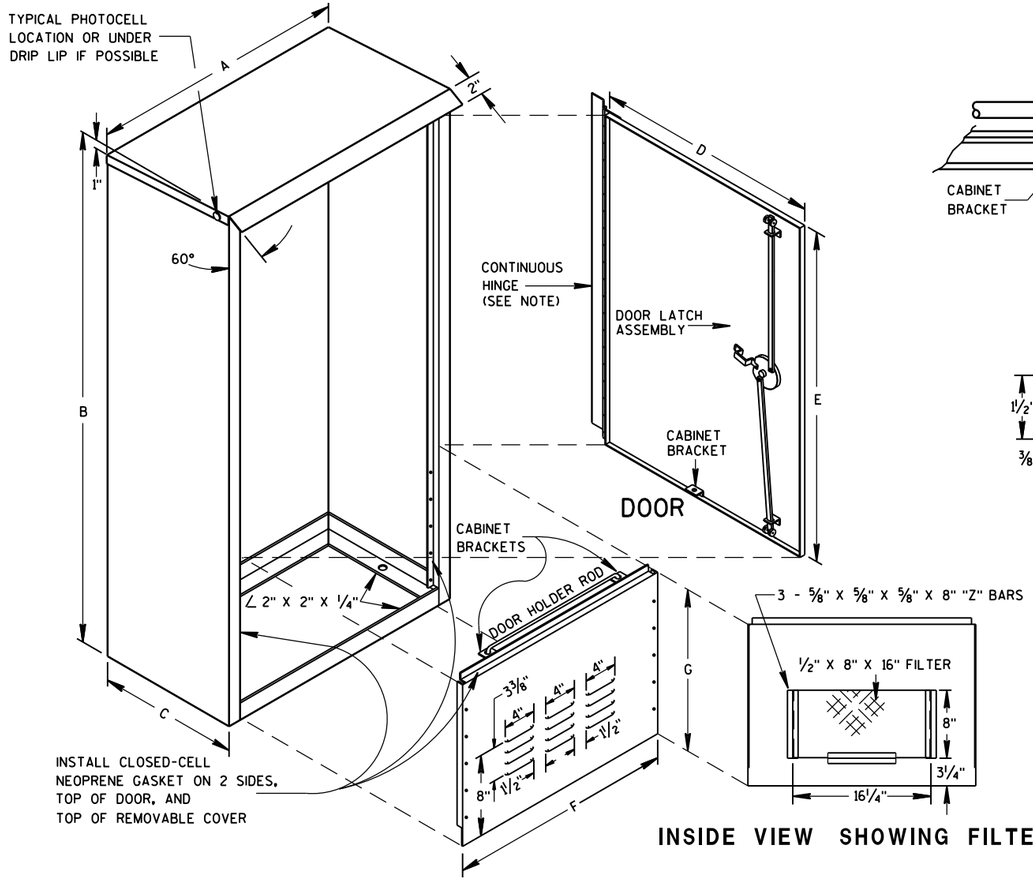
* SOME PEDESTAL LIGHTING PLANS SHOW MAIN LUGS ONLY.

CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

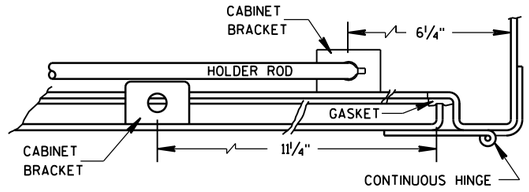
APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6
S.D.D. 9 D 1-5

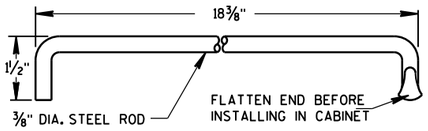


REMOVABLE COVER

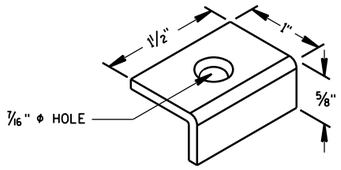
INSIDE VIEW SHOWING FILTER



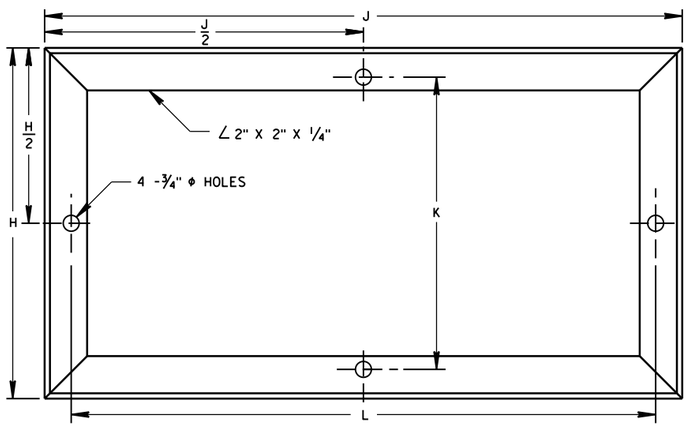
HINGE & DOOR HOLDER



HOLDER ROD



CABINET BRACKET



MOUNTING BASE

TABLE OF DIMENSIONS (INCHES)

MARK	CABINET TYPE		
	3060	3860	3866
A	30	38	38
B	60	60	66
C	16 1/2	16 1/2	24
D	26 1/2	34 3/4	33 3/4
E	38 3/4	38 3/4	38 3/4
F	26 1/2	34 3/4	33 3/4
G	19	19	25
H	16 1/2	16 1/2	24
H/2	8 1/4	8 1/4	12
J	30	38	38
J/2	15	19	19
K	13 3/4	13 3/4	21 1/4
L	27 1/2	35 1/2	35 1/2

GENERAL NOTES

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

PRIME WITH PHOSPHATE TREATMENT AND PRIMER.

FINISH EXTERIOR SURFACES WITH RUSTOLEUM #906 SILVER GRAY OR APPROVED EQUAL.

FINISH INTERIOR WITH RUSTOLEUM #2766 HIGH GLOSS WHITE ENAMEL OR APPROVED EQUAL.

ALL SHEET METAL PARTS SHALL BE .125 INCH THICK ALUMINUM.

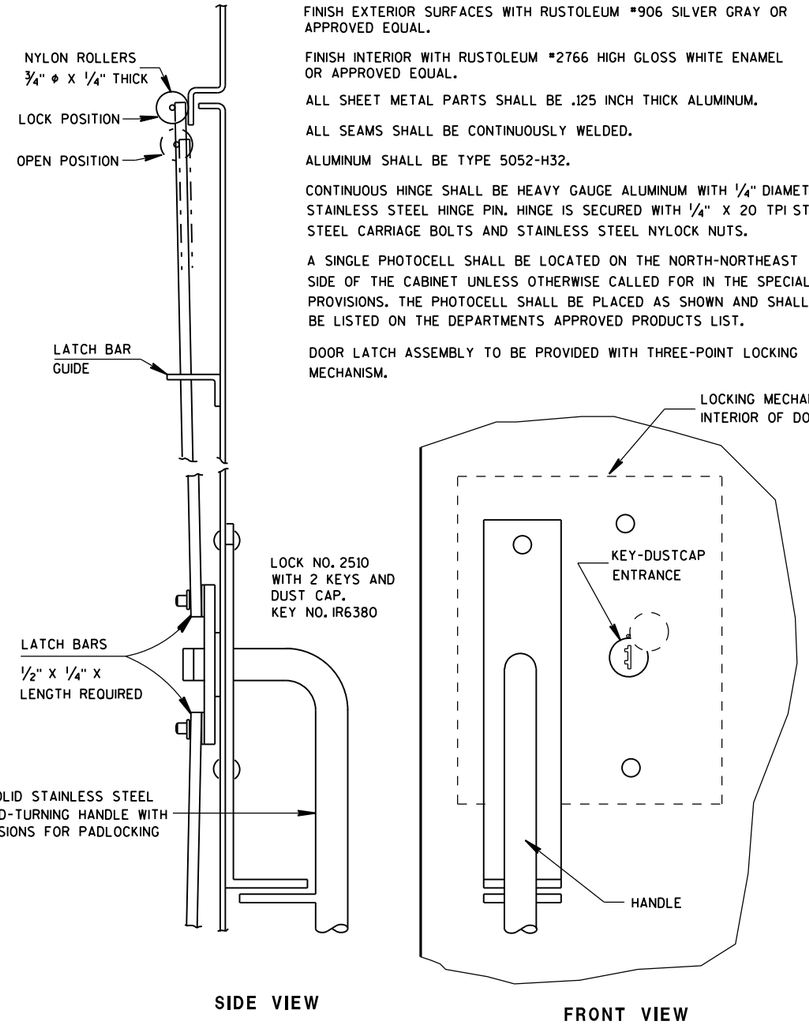
ALL SEAMS SHALL BE CONTINUOUSLY WELDED.

ALUMINUM SHALL BE TYPE 5052-H32.

CONTINUOUS HINGE SHALL BE HEAVY GAUGE ALUMINUM WITH 1/4" DIAMETER STAINLESS STEEL HINGE PIN. HINGE IS SECURED WITH 1/4" X 20 TPI STAINLESS STEEL CARRIAGE BOLTS AND STAINLESS STEEL NYLOCK NUTS.

A SINGLE PHOTOCELL SHALL BE LOCATED ON THE NORTH-NORTHEAST SIDE OF THE CABINET UNLESS OTHERWISE CALLED FOR IN THE SPECIAL PROVISIONS. THE PHOTOCELL SHALL BE PLACED AS SHOWN AND SHALL BE LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST.

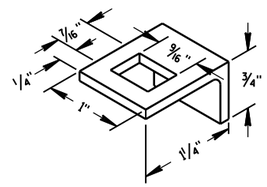
DOOR LATCH ASSEMBLY TO BE PROVIDED WITH THREE-POINT LOCKING MECHANISM.



SIDE VIEW

FRONT VIEW

LATCH ASSEMBLY



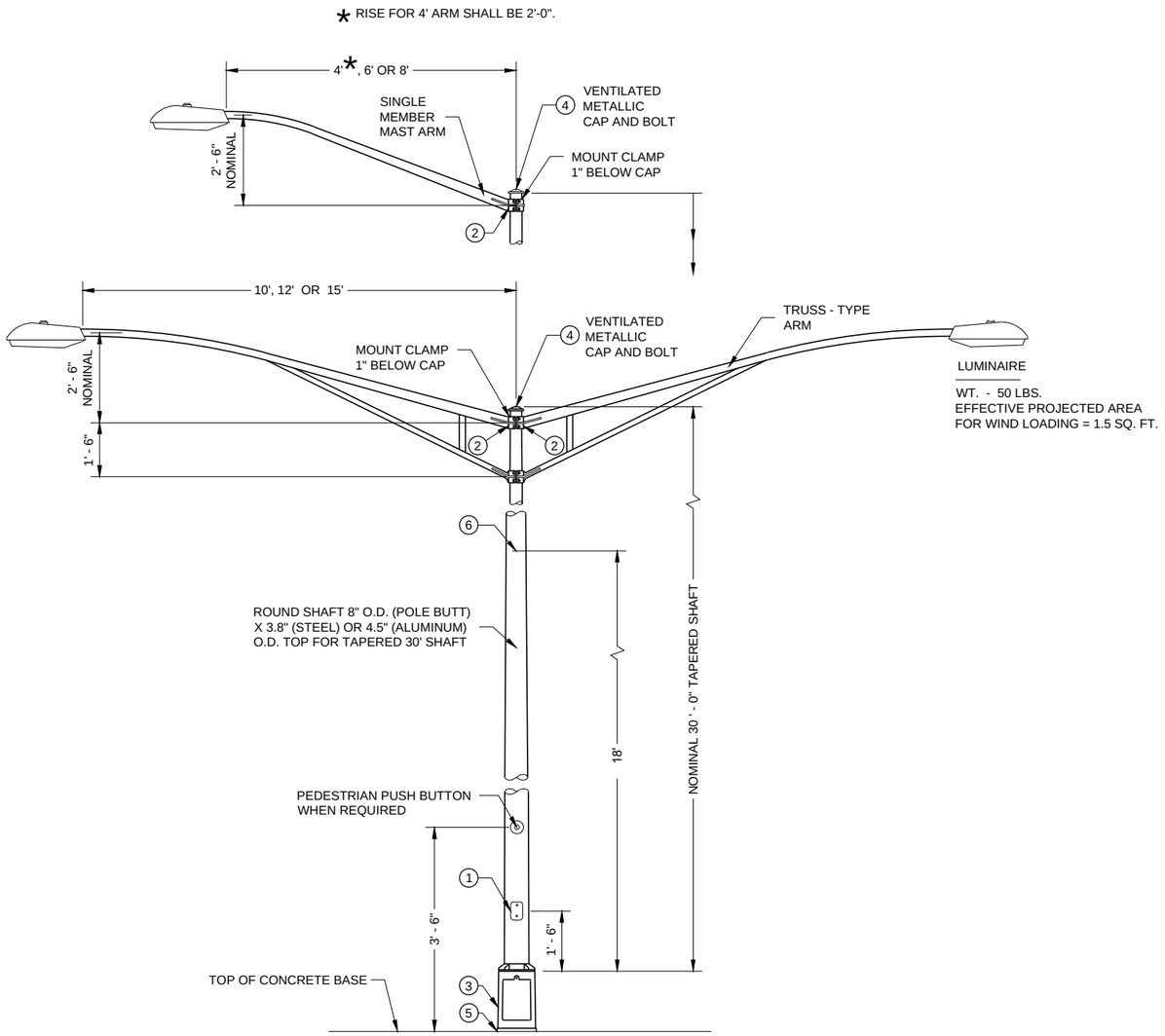
LATCH BAR GUIDE

SIGNAL CONTROL CABINET

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL
FHWA

6
S.D.D. 9 D 2-3



TYPE 5 POLE MOUNTING CONFIGURATION

(MAXIMUM LOAD)

LIGHTING ONLY

GENERAL NOTES

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

SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

ALL TYPE 5 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL OR ALUMINUM, AS CALLED FOR IN THE CONTRACT.

TYPE 5 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063 - T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

TYPE 5 ALUMINUM POLES SHALL HAVE A MINIMUM WALL THICKNESS OF 0.1888".

TYPE 5 STEEL POLES SHALL HAVE A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (0.1196").

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2 ⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" X 6" REINFORCED HANDHOLE AND COVER ASSEMBLY WITH TWO (2) ¼" X ¾" - 20 TPI , STAINLESS STEEL, HEX HEAD BOLTS.

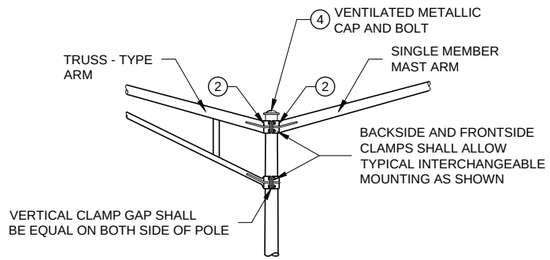
(2) GROMMETS. 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 ⅜" HOLE IN POLE SHAFT FOR WIRING.

(3) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.

(4) FURNISH AND INSTALL VENTILATED, CAST METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(5) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND POLE.

(6) INTERNAL DUMBBELL - TYPE VIBRATION DAMPER.



INTERCHANGEABLE MOUNTING DETAIL

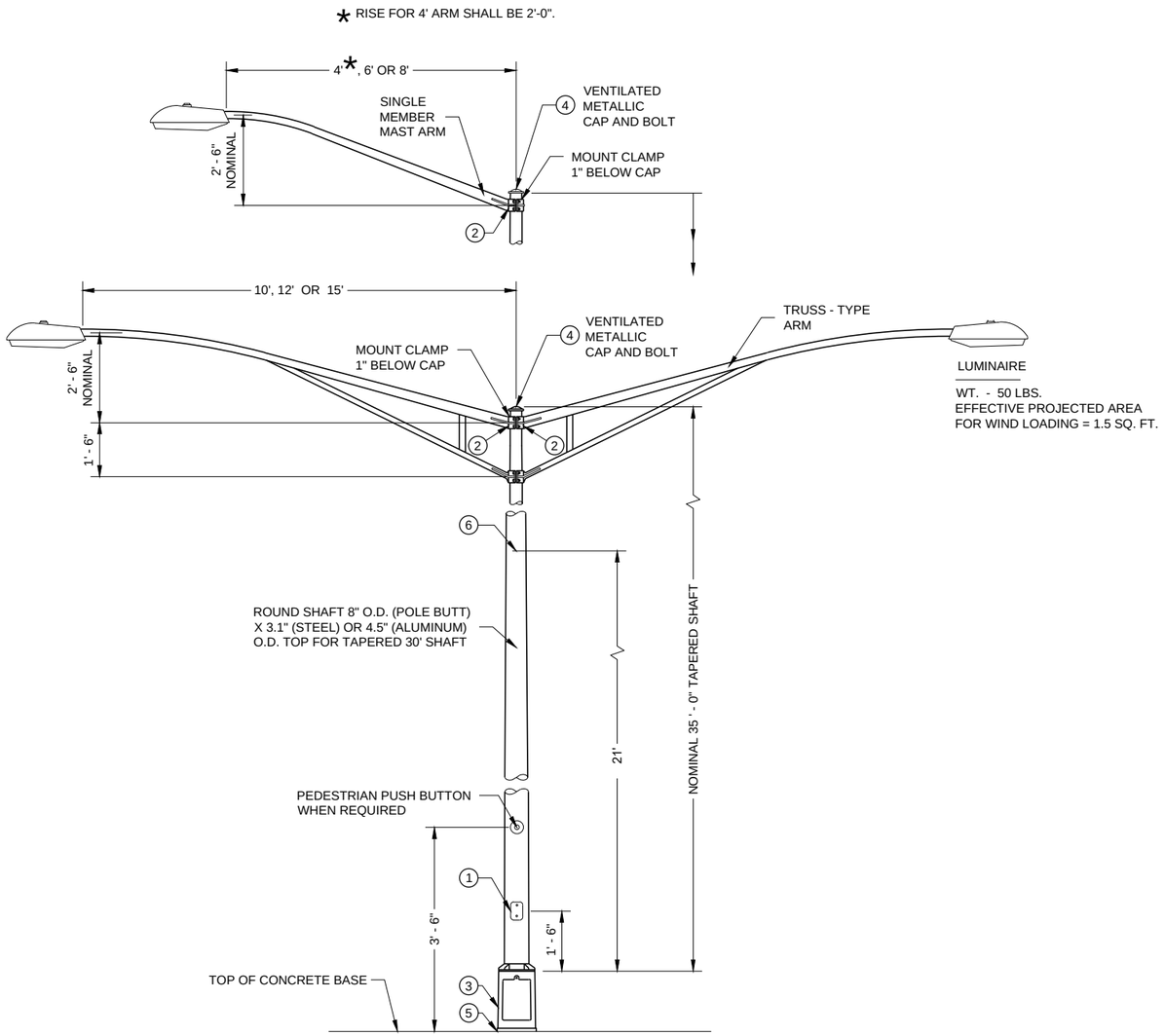
POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5

(30 FEET)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 09E01 - 15d



TYPE 6 POLE MOUNTING CONFIGURATION

(MAXIMUM LOAD)

LIGHTING ONLY

GENERAL NOTES

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

SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

ALL TYPE 6 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL OR ALUMINUM, AS CALLED FOR IN THE CONTRACT.

TYPE 6 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063 - T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

TYPE 6 ALUMINUM POLES SHALL HAVE A MINIMUM WALL THICKNESS OF 0.219".

TYPE 6 STEEL POLES SHALL HAVE A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (0.1196").

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2 ⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" X 6" REINFORCED HANDHOLE AND COVER ASSEMBLY WITH TWO (2) ¼" X ¾" - 20 TPI , STAINLESS STEEL, HEX HEAD BOLTS.

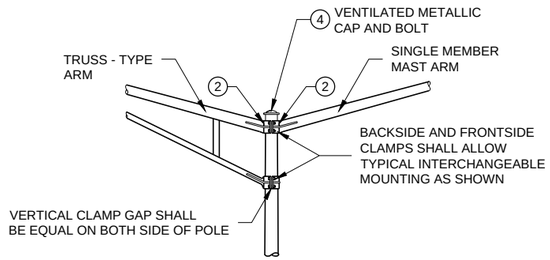
(2) GROMMETS. 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 ⅜" HOLE IN POLE SHAFT FOR WIRING.

(3) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.

(4) FURNISH AND INSTALL VENTILATED, CAST METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(5) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND POLE.

(6) INTERNAL DUMBBELL - TYPE VIBRATION DAMPER.



INTERCHANGEABLE MOUNTING DETAIL

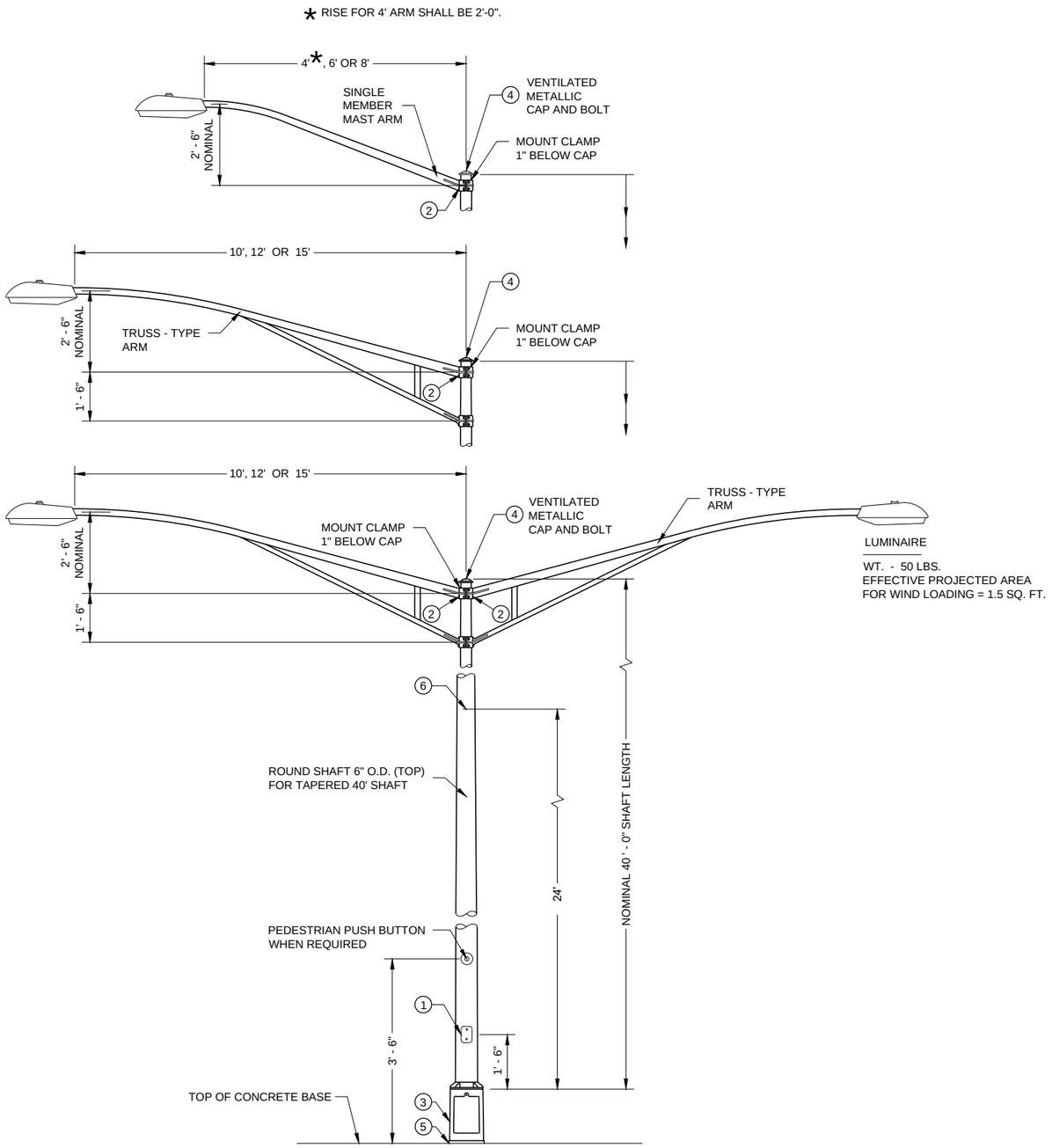
POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 6

(35 FEET)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 09E01 - 15e



TYPE 17 POLE MOUNTING CONFIGURATION
(MAXIMUM LOAD)
LIGHTING ONLY

GENERAL NOTES

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

SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

ALL LUMINAIRE POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL OR ALUMINUM, AS CALLED FOR IN THE CONTRACT.

TYPE 17 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063 - T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

TYPE 17 STEEL POLES SHALL HAVE A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (0.1196").

THE SHOE BASE SHALL BE SLOTTED TO ACCEPT A 15" BOLT CIRCLE (14" X 16" SLOT) USING 1" ANCHOR RODS.

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2 ⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" X 6" REINFORCED HANDHOLE AND COVER ASSEMBLY WITH TWO (2) ¼" X ¾" - 20 TPI , STAINLESS STEEL, HEX HEAD BOLTS.

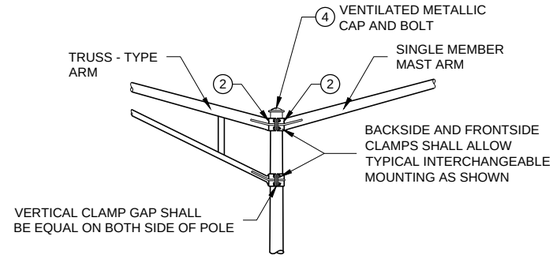
(2) GROMMETS. 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 ⅜" HOLE IN POLE SHAFT FOR WIRING.

(3) CAST ALUMINUM FHWA APPROVED TRANSFORMER BASE WHEN REQUIRED, SHALL HAVE AN ULTIMATE STATIC LOAD STRENGTH OF AT LEAST 40,000 FT. - LBS.

(4) FURNISH AND INSTALL VENTILATED, CAST METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(5) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND POLE.

(6) INTERNAL DUMBELL - TYPE VIBRATION DAMPER.

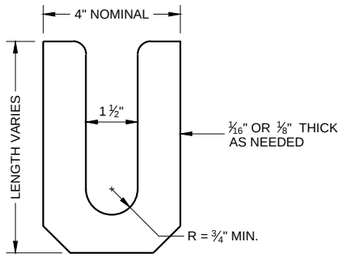


INTERCHANGEABLE MOUNTING DETAIL

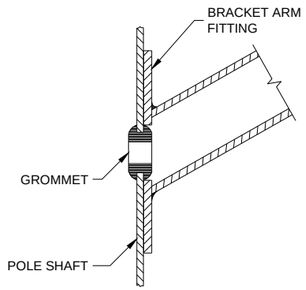
POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 17
(40 FEET)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

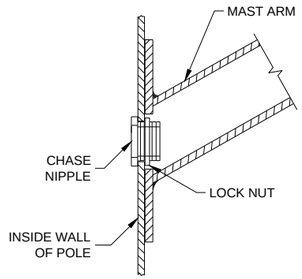
6 SDD 09E01 - 15f



LEVELING SHIM (1)
SHALL BE ALUMINUM



TYPICAL APPLICATION OF GROMMET IN POLE SHAFT



TYPICAL APPLICATION OF CHASE NIPPLE IN POLE SHAFT

GENERAL NOTES

CLAMP BOLT-NUT TIGHTENING TORQUE SHALL BE INDICATED BY INDENT STAMPING (1/2 INCH NUMERALS AND LETTERS) OR WEATHERPROOF PRINTING ON THE INSIDE OF THE CLAMP THAT IS WELDED TO THE ARM MEMBER.

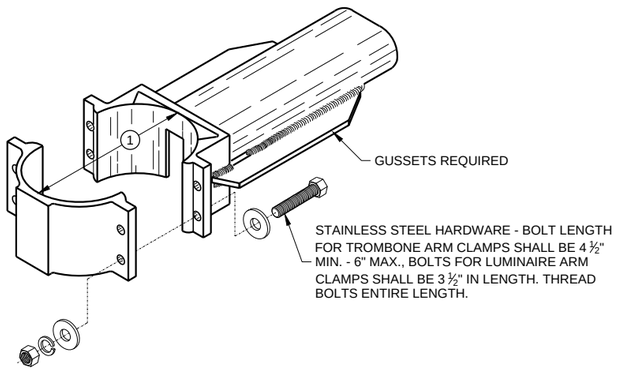
(1) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP. 6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

(2) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)

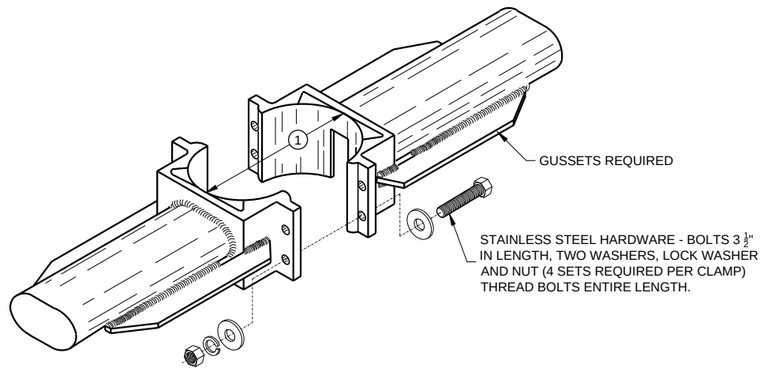
(3) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

(4) LEVELING SHIMS, DESIGNED FOR THE PURPOSE, SHALL BE USED WHEN PLUMBING POLES. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE. LEVELING SHIMS SHALL BE USED ONLY BETWEEN THE TOP OF THE CONCRETE BASE AND A METALLIC BASE PLATE.

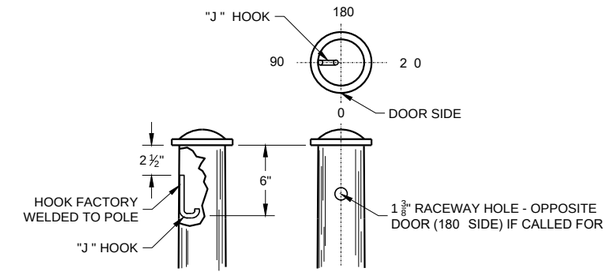
SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



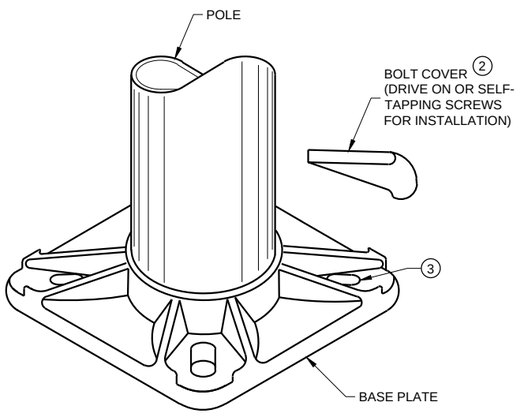
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



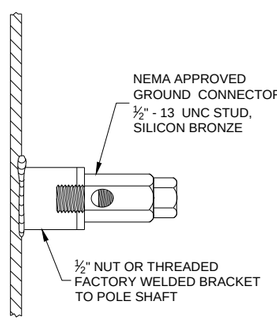
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

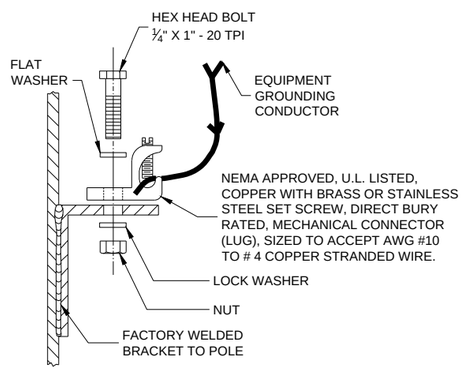


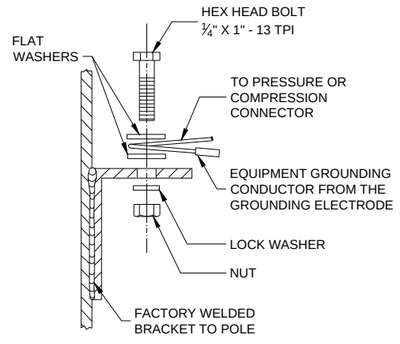
TYPICAL "J" HOOK LOCATION



BASE PLATE







TYPICAL GROUNDING CONNECTIONS

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL

HARDWARE DETAILS FOR POLE MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 514

FHWA

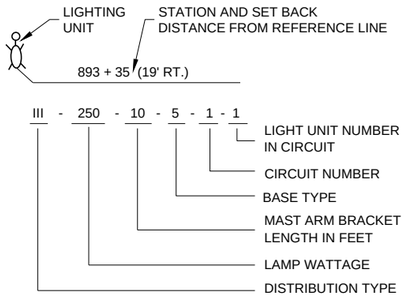
6
SDD09A01 - 15g

GENERAL NOTES

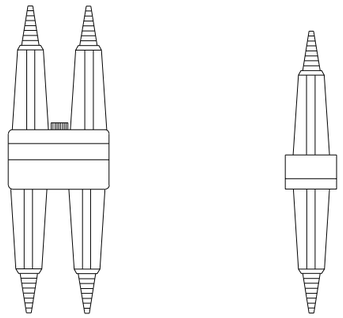
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EQUIPMENT GROUND CONNECTOR SHALL BE TAPED WITH 3 WRAPS (MINIMUM) OF APPROVED RUBBER TAPE AND 3 WRAPS (MINIMUM) OF APPROVED VINYL TAPE TO COVER SHARP WIRE ENDS AFTER THE CONNECTION IS COMPLETED.

WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.

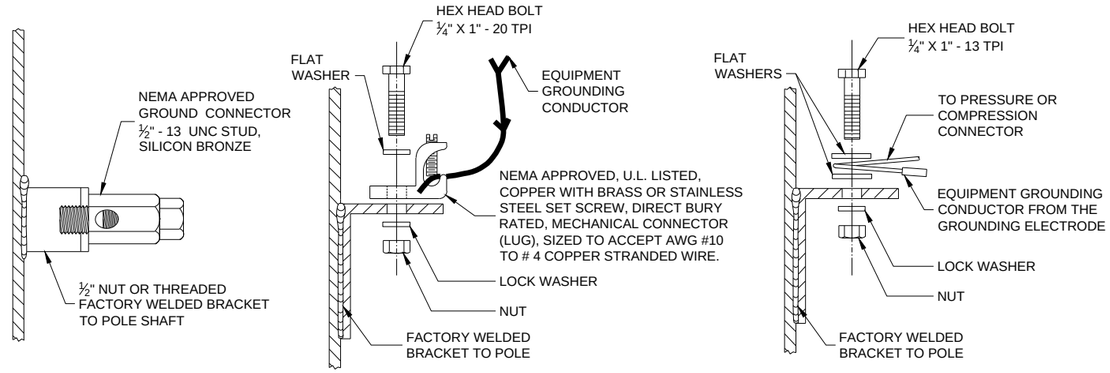


LIGHTING UNIT CODE
(TYPICAL)

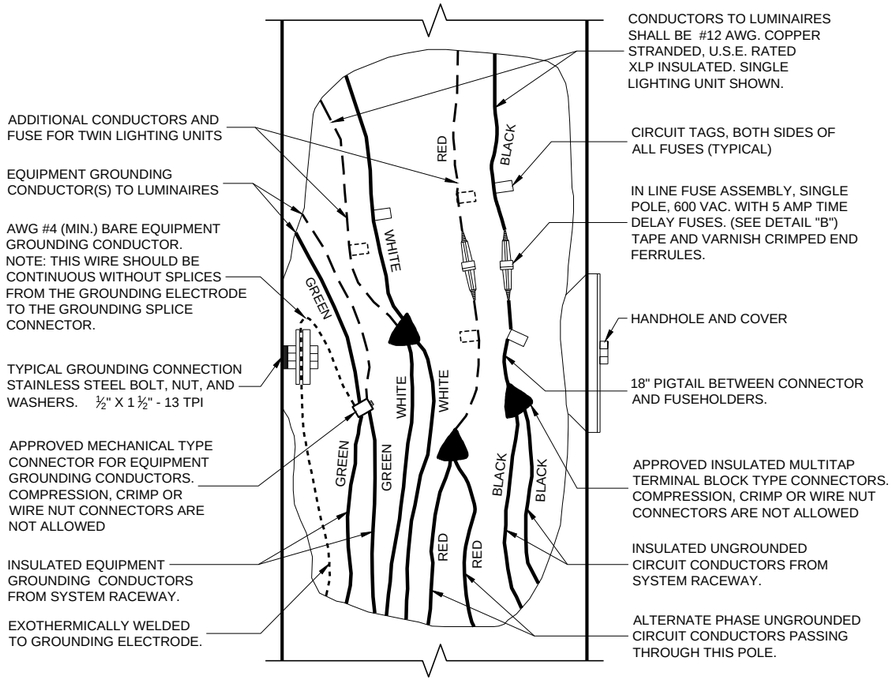


DETAIL "A"
BREAKAWAY DOUBLE POLE WITH WATERPROOF INSULATING BOOT

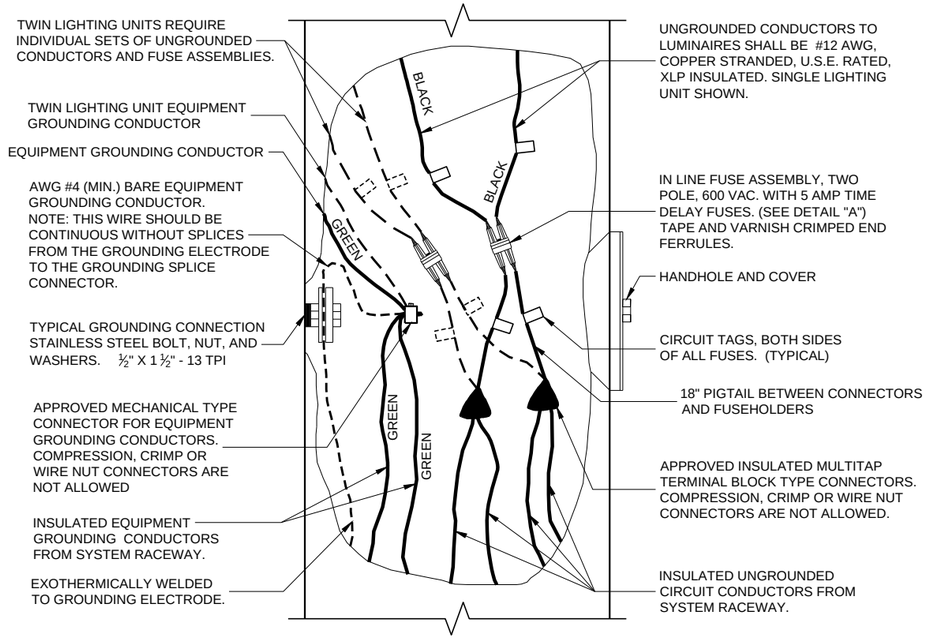
DETAIL "B"
BREAKAWAY SINGLE POLE WITH WATERPROOF INSULATING BOOT



TYPICAL GROUNDING CONNECTIONS
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



3 WIRE - 120, 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH GROUNDING CONDUCTOR AND EQUIPMENT GROUNDING CONDUCTOR



2 WIRE - 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH EQUIPMENT GROUNDING CONDUCTOR

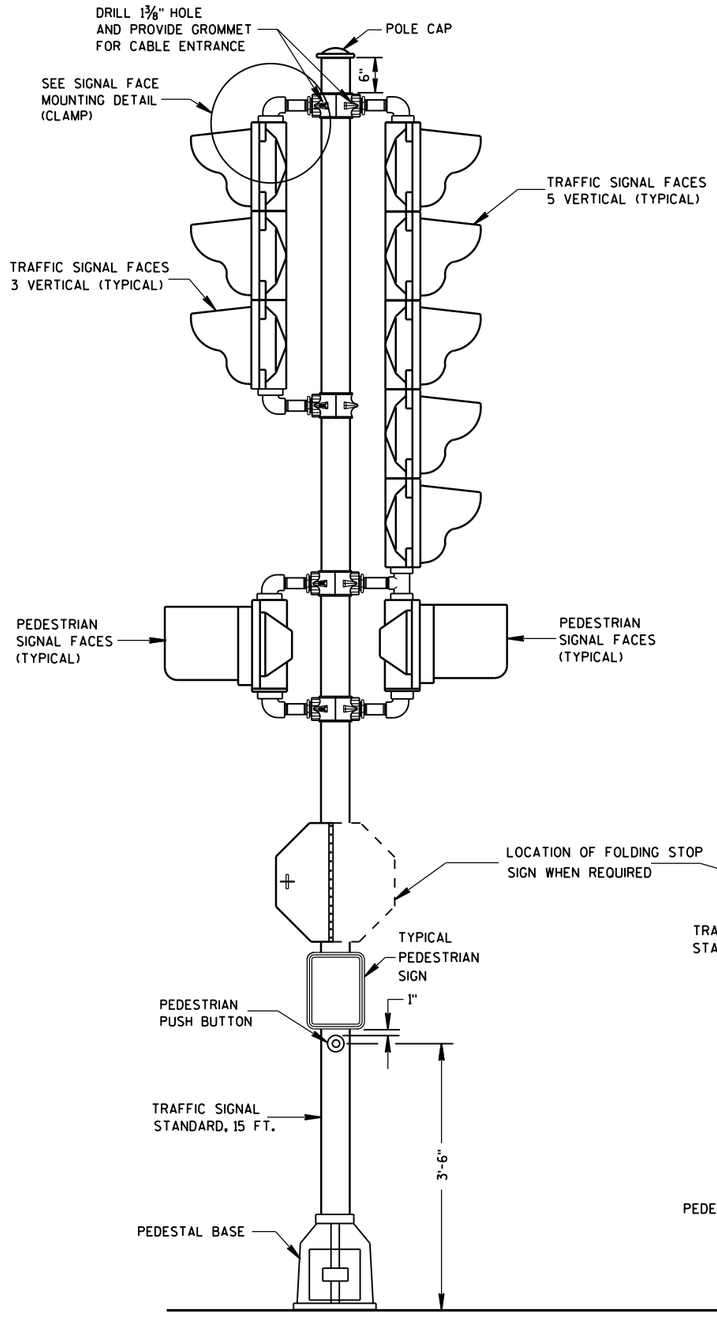
NON - FREEWAY LIGHTING UNIT
POLE WIRING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

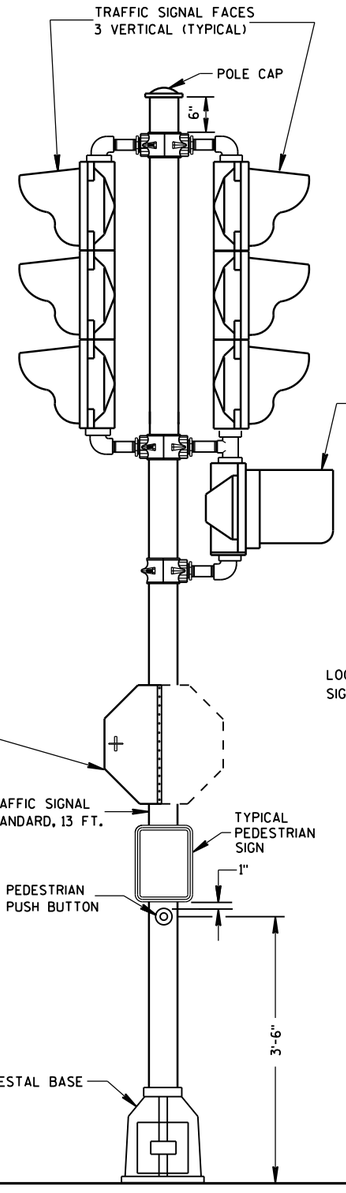
APPROVED
November 2018
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 515

FHWA

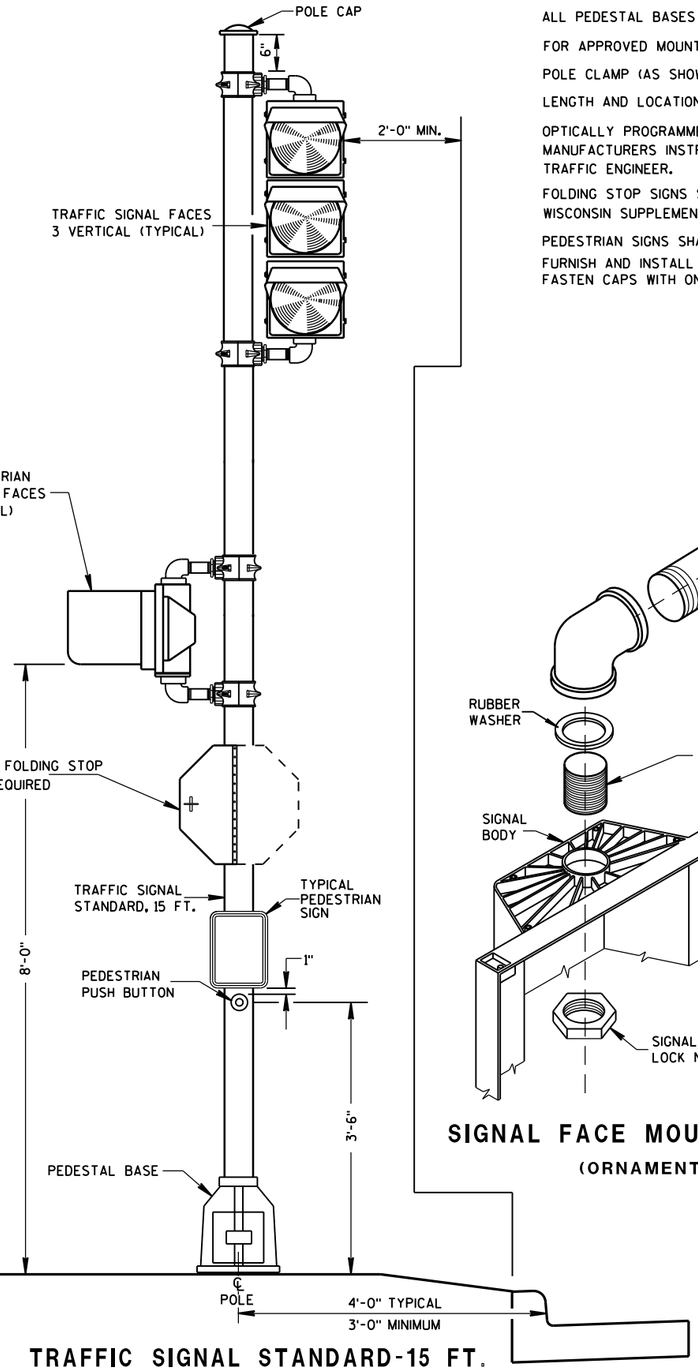
6
SDD 09E03 - 06



TRAFFIC SIGNAL STANDARD-15 FT.



TRAFFIC SIGNAL STANDARD-13 FT.



TRAFFIC SIGNAL STANDARD-15 FT.
3M MOUNTING (TYPICAL)

GENERAL NOTES

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

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIAL PROVISIONS.

POLE CLAMP (AS SHOWN) MOUNTING BRACKETS SHALL BE USED.

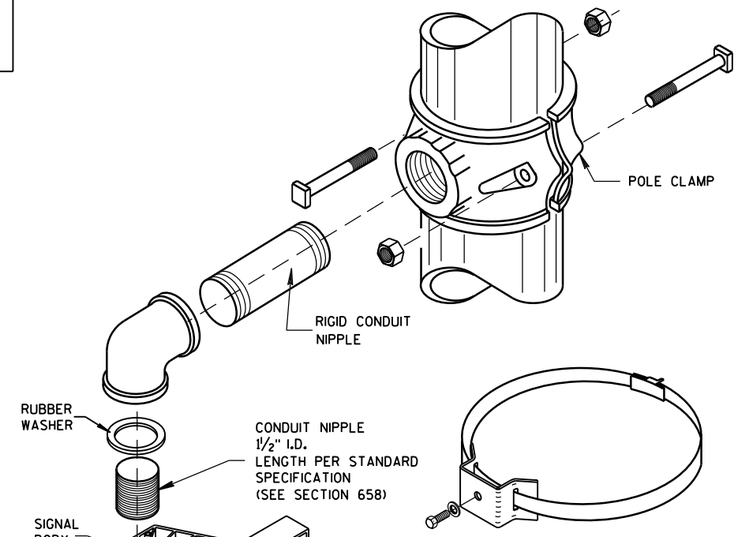
LENGTH AND LOCATION OF TRAFFIC SIGNAL STANDARDS SHALL BE AS SHOWN ON THE PLANS.

OPTICALLY PROGRAMMED SIGNAL FACES SHALL BE MASKED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS, AND UNDER THE DIRECTIONS OF THE REGION TRAFFIC ENGINEER.

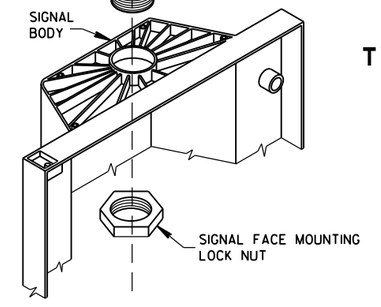
FOLDING STOP SIGNS SHALL BE IN ACCORDANCE WITH THE MUTCD AND/OR THE LATEST WISCONSIN SUPPLEMENT. THE SIGNS SHALL BE SIZED AND LOCATED AS CALLED FOR IN THE PLANS.

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) 1/4" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.



TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



SIGNAL FACE MOUNTING DETAIL
(ORNAMENTAL)

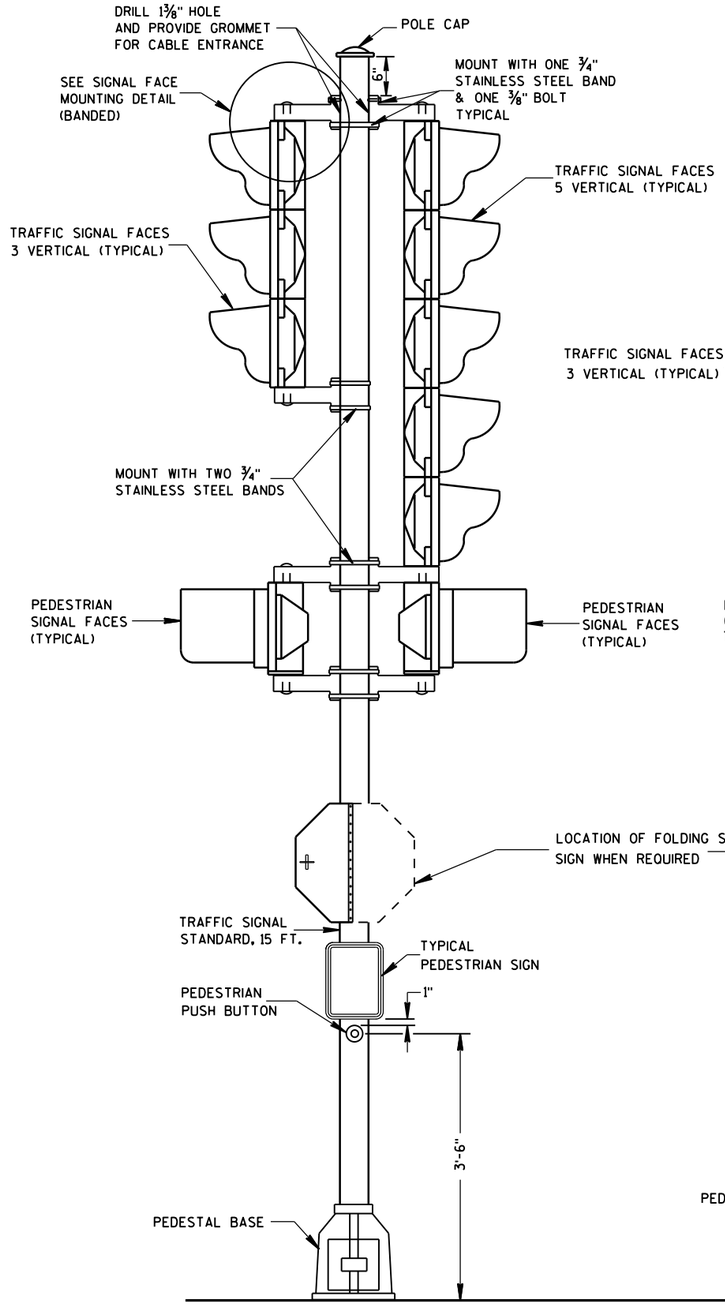
TRAFFIC SIGNAL STANDARD
ORNAMENTAL BRACKET MOUNTINGS
TYPICAL FOR 13 FT. OR 15 FT.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

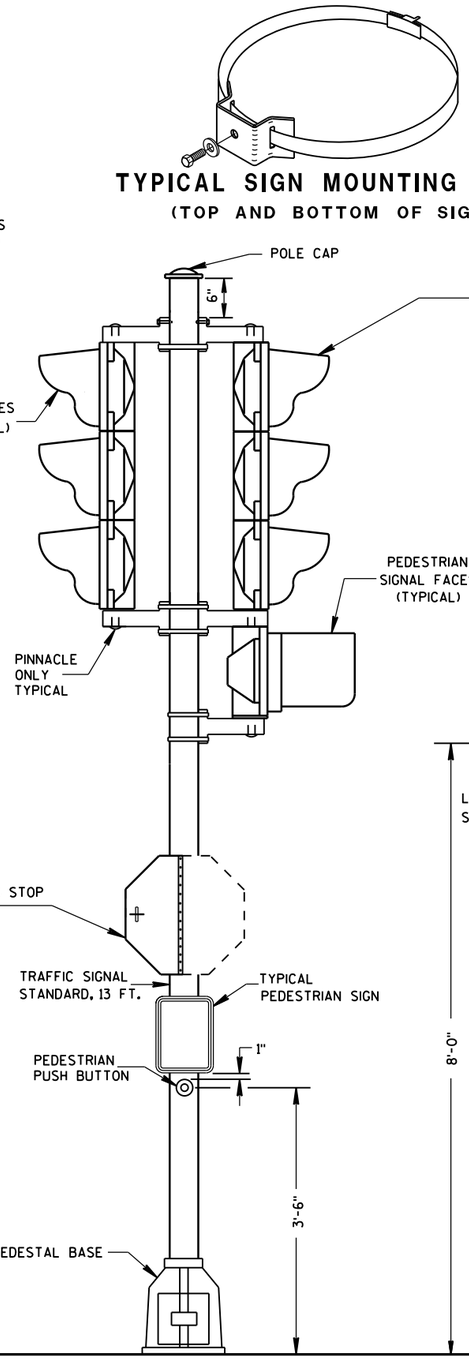
APPROVED
2/28/2013
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL
FHWA

S.D.D. 9 E 5-6

6
S.D.D. 9 E 5-6

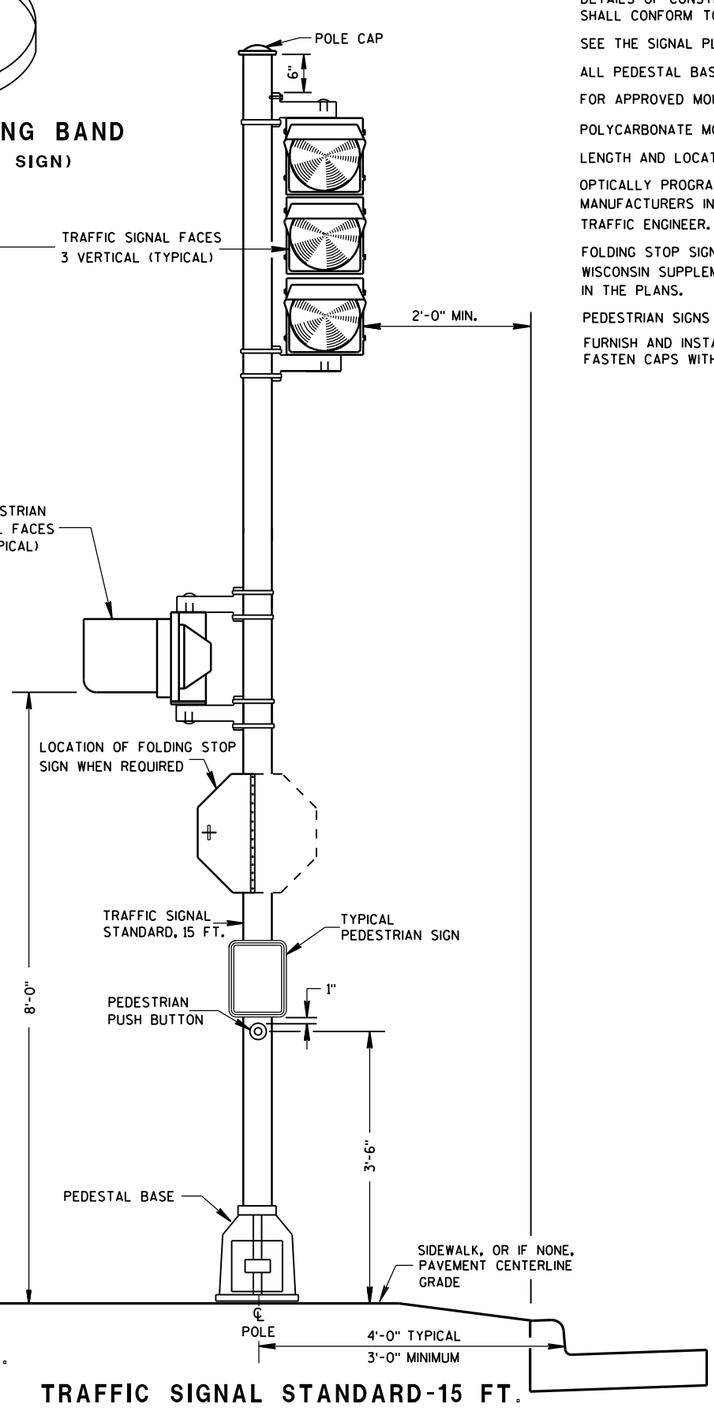


TRAFFIC SIGNAL STANDARD-15 FT.



TRAFFIC SIGNAL STANDARD-13 FT.

TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



TRAFFIC SIGNAL STANDARD-15 FT.
3M MOUNTING (TYPICAL)

GENERAL NOTES

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

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIAL PROVISIONS.

POLYCARBONATE MOUNTING BRACKETS SHALL BE USED.

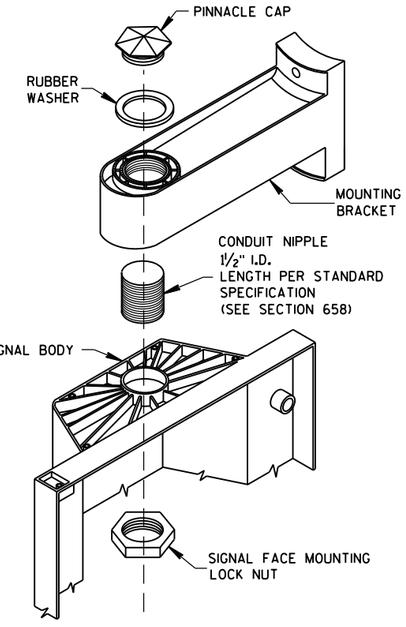
LENGTH AND LOCATION OF TRAFFIC SIGNAL STANDARDS SHALL BE AS SHOWN ON THE PLANS.

OPTICALLY PROGRAMMED SIGNAL FACES SHALL BE MASKED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS, AND UNDER THE DIRECTIONS OF THE REGION TRAFFIC ENGINEER.

FOLDING STOP SIGNS SHALL BE IN ACCORDANCE WITH THE MUTCD AND/OR THE LATEST WISCONSIN SUPPLEMENT. THE SIGNS SHALL BE SIZED AND LOCATED AS CALLED FOR IN IN THE PLANS.

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.



SIGNAL FACE MOUNTING DETAIL
(BANDED)

TRAFFIC SIGNAL STANDARD
POLY BRACKET MOUNTINGS
(TYPICAL) 13 FT. OR 15 FT.

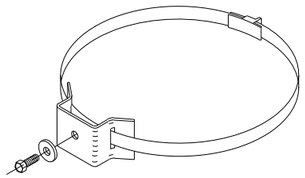
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
2/28/2013
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL

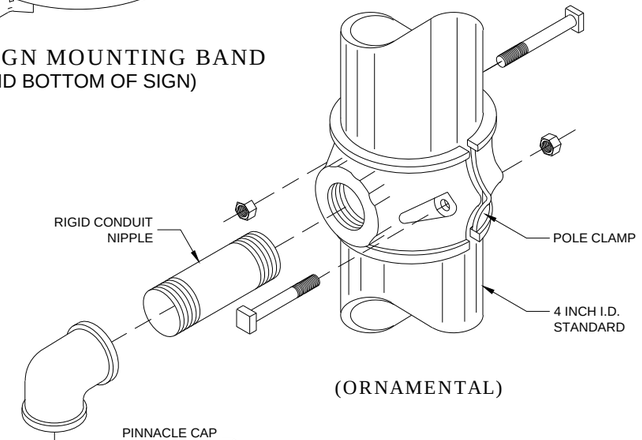
FHWA

6

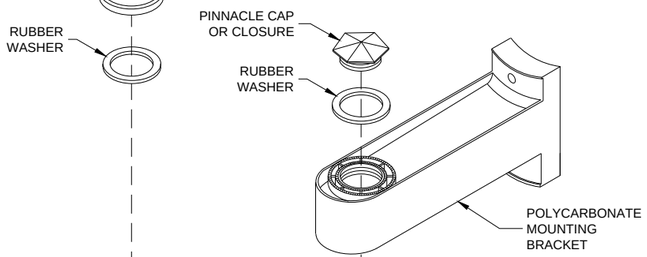
S.D.D. 9 E 6-5



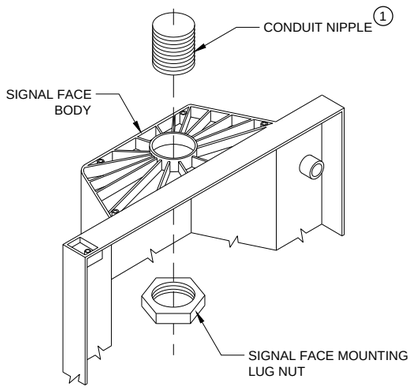
TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



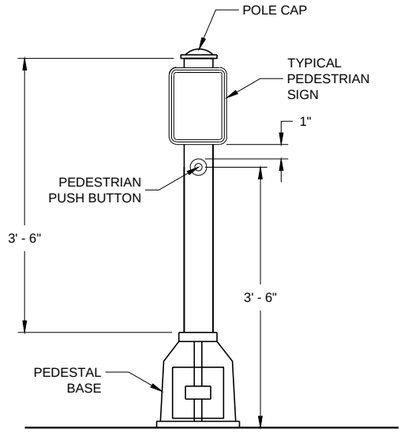
(ORNAMENTAL)



(BANDED)



SIGNAL FACE MOUNTING DETAILS



PEDESTRIAN PUSH BUTTON
TYPICAL MOUNTING

GENERAL NOTES

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

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

LOCATIONS SHALL BE AS SHOWN ON THE PLANS, UNLESS APPROVED BY THE ENGINEER IN THE FIELD.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIFICATIONS.

POLYCARBONATE SIGNAL FACE MOUNTING BRACKETS SHALL BE USED UNLESS ORNAMENTAL POLE CLAMPS ARE SPECIFIED.

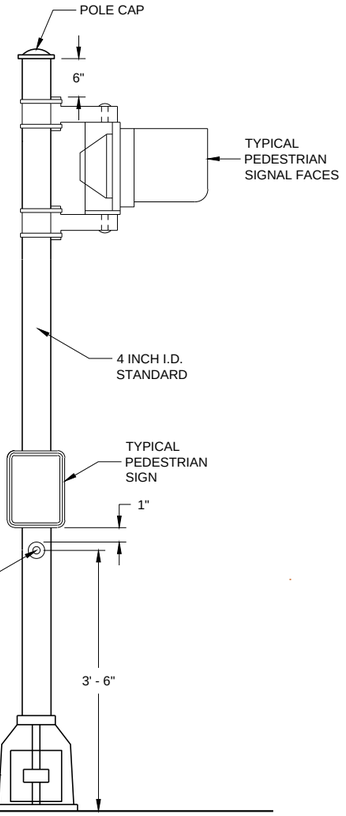
LENGTH OF TRAFFIC STANDARDS SHALL BE AS SHOWN ON THE PLANS.

MOUNTINGS AND BRACKETS SHALL BE AS SHOWN ON THE PLANS OR DESCRIBED IN THE SPECIAL PROVISIONS (BY THE REGION TRAFFIC ENGINEER).

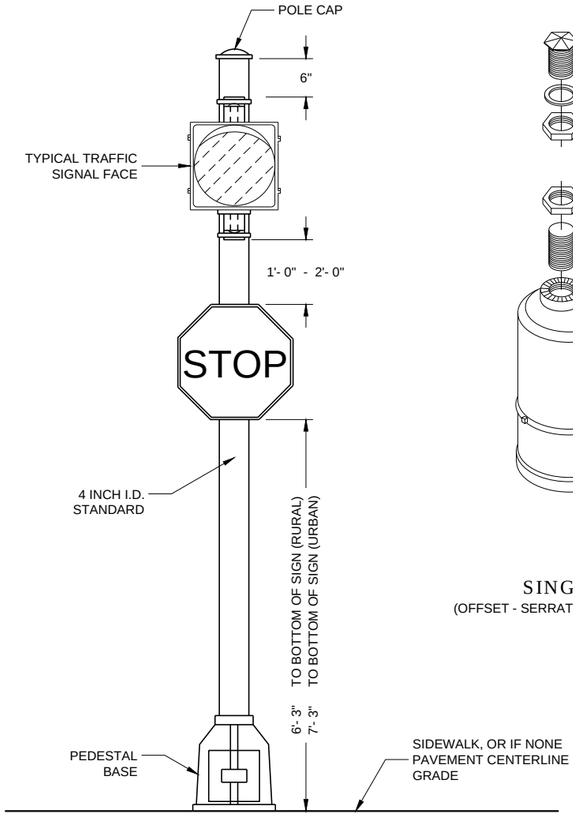
PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

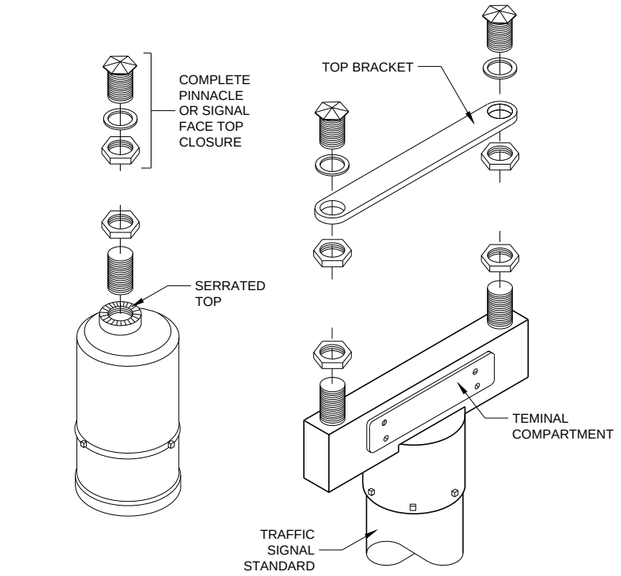
(1) USE 1 ½" ID NIPPLES ZINC-COATED RIGID METAL CONDUIT, LONG ENOUGH TO ACCOMMODATE FULL DEPTH THREADING INTO THE HEAD MOUNTING LOCK NUT IN ORDER TO TIGHTEN THE FACE, BUT THAT DO NOT INTERFERE WITH REFLECTOR CLOSURE. THREAD THE NIPPLE INTO THE MOUNTING BRACKET/ELBOW UNTIL TIGHT. USE APPROVED PINNACLE TYPE HARDWARE FROM A DEPARTMENT APPROVED MANUFACTURER TO CLOSE THE UNUSED 1 ½" OPENING IN SIGNAL FACESAND BRACKET ENDS.



PEDESTRIAN FACE STANDARD - 10 FT.
(WALK - DON'T WALK)



STANDARD FLASHER
10 FOOT, 13 FOOT OR 15 FOOT AS REQUIRED



SINGLE
(OFFSET - SERRATED MOUNTING)

DOUBLE
(SERRATED MOUNTING)

SLIPFITTERS

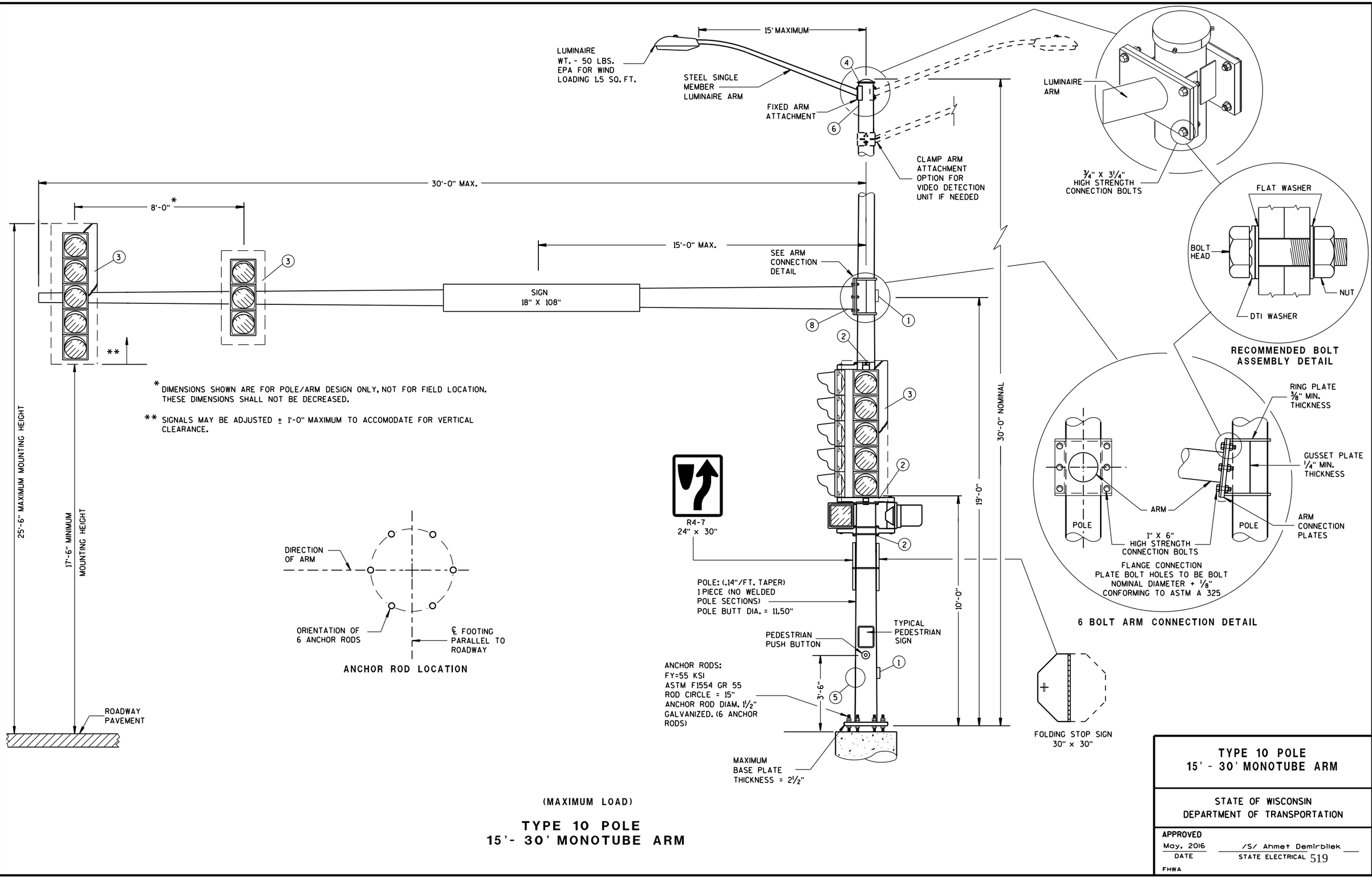
TRAFFIC SIGNAL STANDARD
PEDESTRIAN AND FLASHER
TYPICAL MOUNTING DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 518
FHWA

6

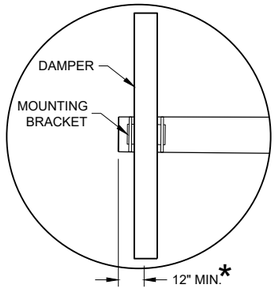
SDD 09E07 - 06



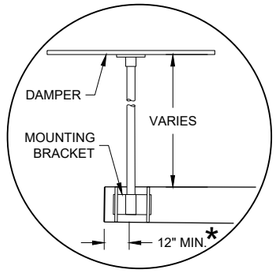
(MAXIMUM LOAD)

TYPE 10 POLE
15'- 30' MONOTUBE ARM

TYPE 10 POLE 15' - 30' MONOTUBE ARM
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED May, 2016 — DATE /S/ Ahmet Demirbilek — STATE ELECTRICAL FHWA

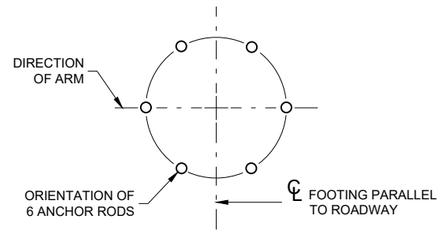


DUMBBELL VIBRATION DAMPER

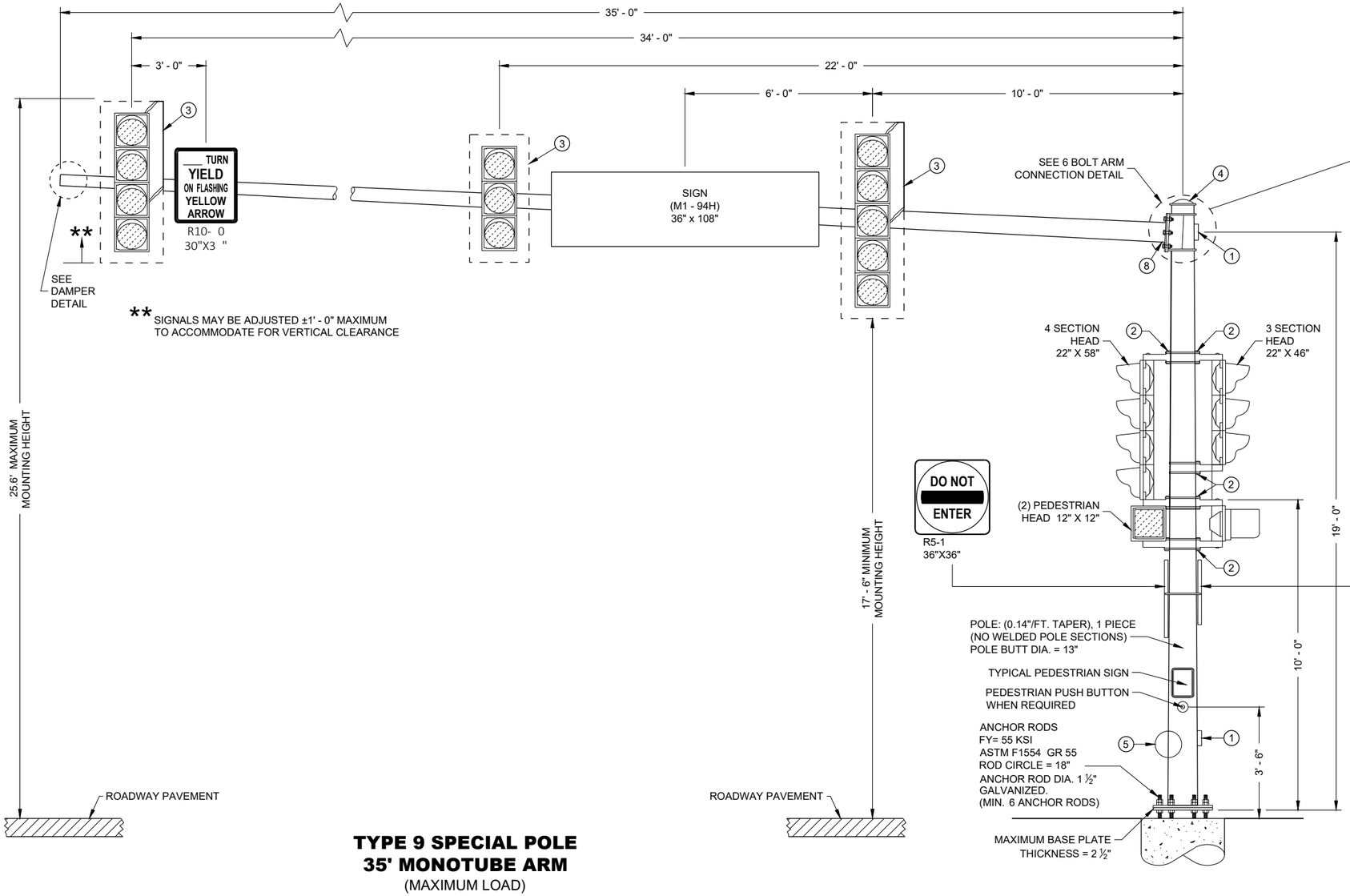


FLAT VIBRATION DAMPER

* MOUNT AS CLOSE TO END OF MAST ARM FOR MAXIMUM DAMPING PER MANUFACTURER'S RECOMMENDATIONS.

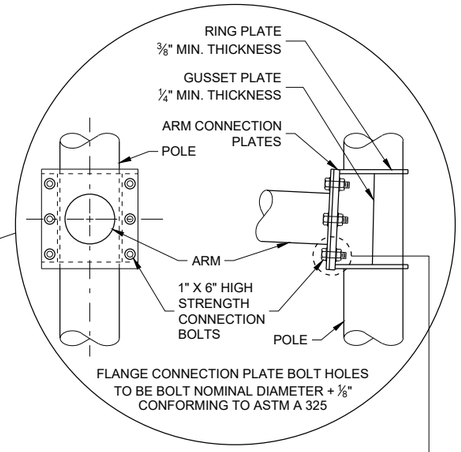


ANCHOR ROD LOCATION

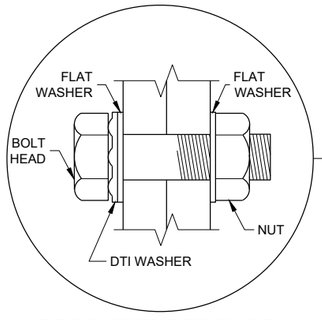


** SIGNALS MAY BE ADJUSTED ±1' - 0" MAXIMUM TO ACCOMMODATE FOR VERTICAL CLEARANCE

TYPE 9 SPECIAL POLE
35' MONOTUBE ARM
(MAXIMUM LOAD)



6 BOLT ARM CONNECTION DETAIL



RECOMMENDED BOLT ASSEMBLY DETAIL

TYPE 9 SPECIAL POLE
35' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

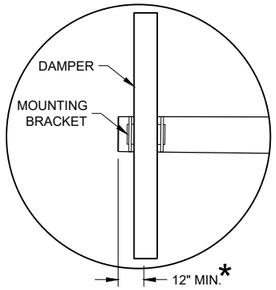
APPROVED
August 2020
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 520

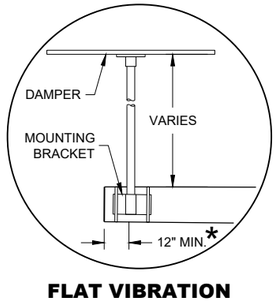
FHWA

6

SDD 09E08 - 09b

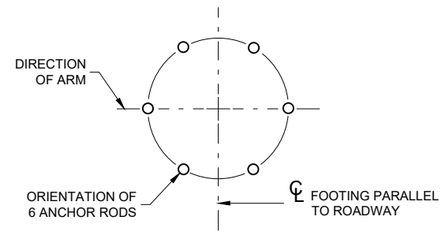


DUMBBELL VIBRATION DAMPER

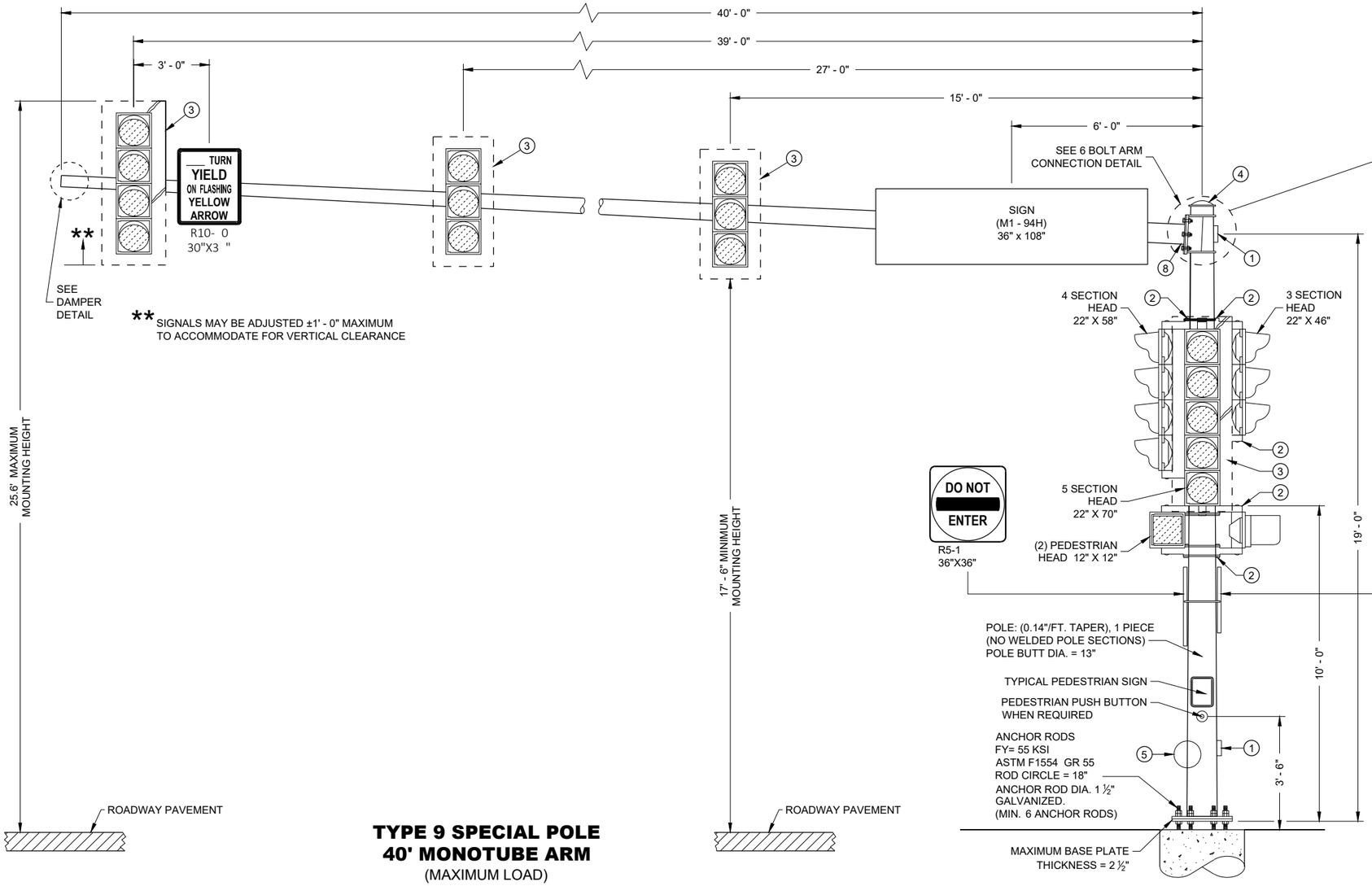


FLAT VIBRATION DAMPER

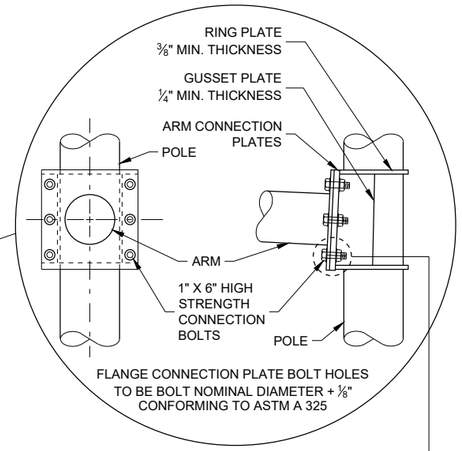
* MOUNT AS CLOSE TO END OF MAST ARM FOR MAXIMUM DAMPING PER MANUFACTURER'S RECOMMENDATIONS.



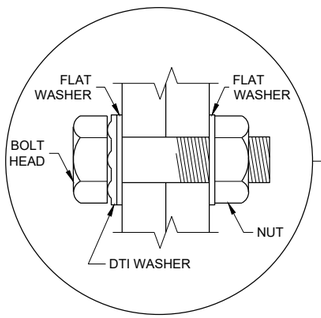
ANCHOR ROD LOCATION



TYPE 9 SPECIAL POLE
40' MONOTUBE ARM
(MAXIMUM LOAD)



6 BOLT ARM CONNECTION DETAIL



RECOMMENDED BOLT ASSEMBLY DETAIL

TYPE 9 SPECIAL POLE
40' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 521

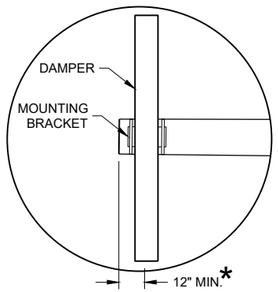
FHWA

6

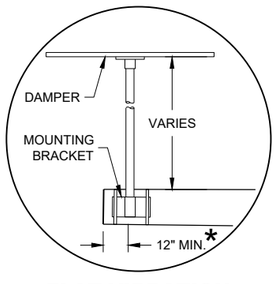
SDD 09E08 - 09c

6

SDD 09E08 - 09c

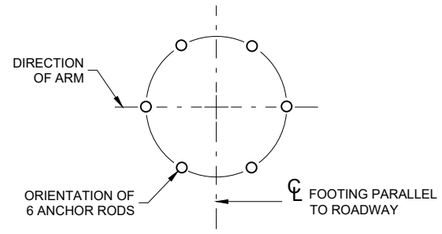


DUMBBELL VIBRATION DAMPER

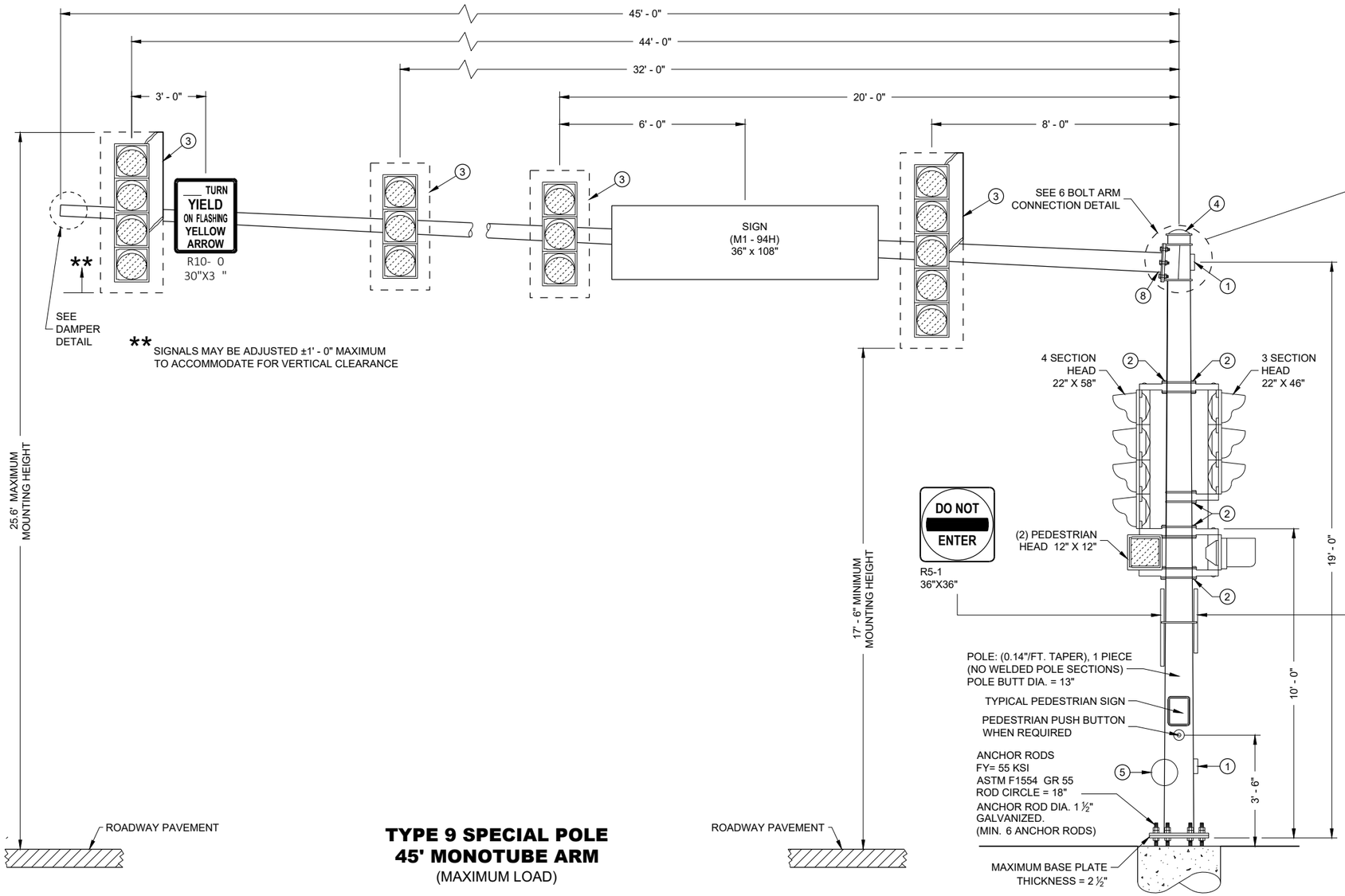


FLAT VIBRATION DAMPER

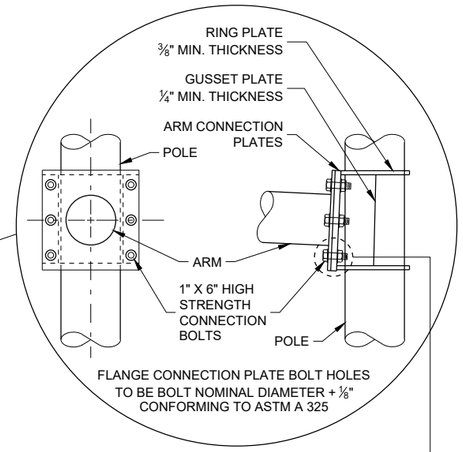
* MOUNT AS CLOSE TO END OF MAST ARM FOR MAXIMUM DAMPING PER MANUFACTURER'S RECOMMENDATIONS.



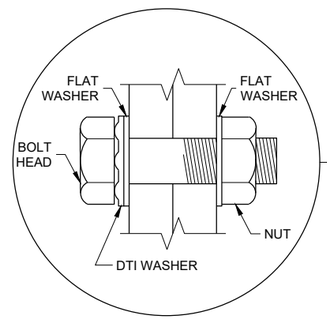
ANCHOR ROD LOCATION



TYPE 9 SPECIAL POLE
45' MONOTUBE ARM
(MAXIMUM LOAD)



6 BOLT ARM CONNECTION DETAIL



RECOMMENDED BOLT ASSEMBLY DETAIL

TYPE 9 SPECIAL POLE
45' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 522

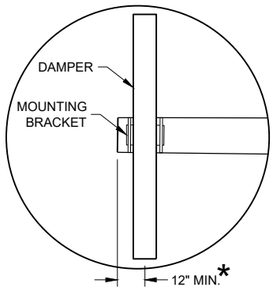
FHWA

6

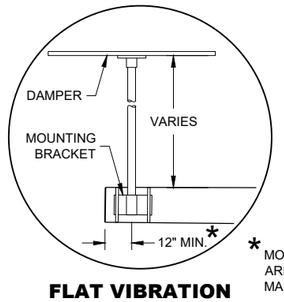
SDD 09E08 - 09d

6

SDD 09E08 - 09d

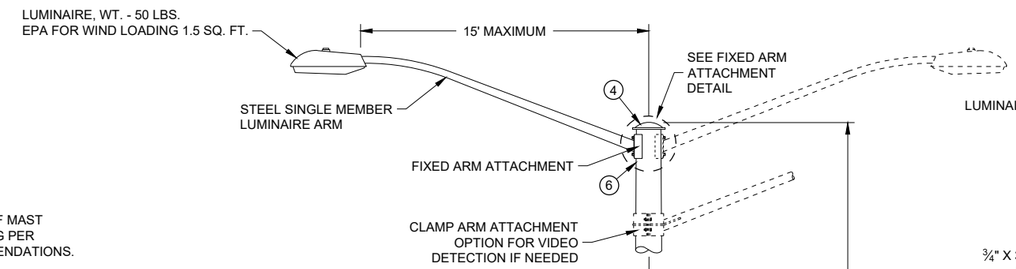


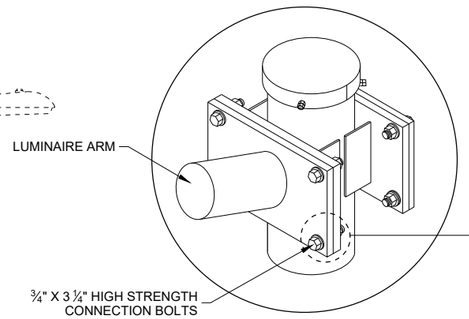
DUMBBELL VIBRATION DAMPER



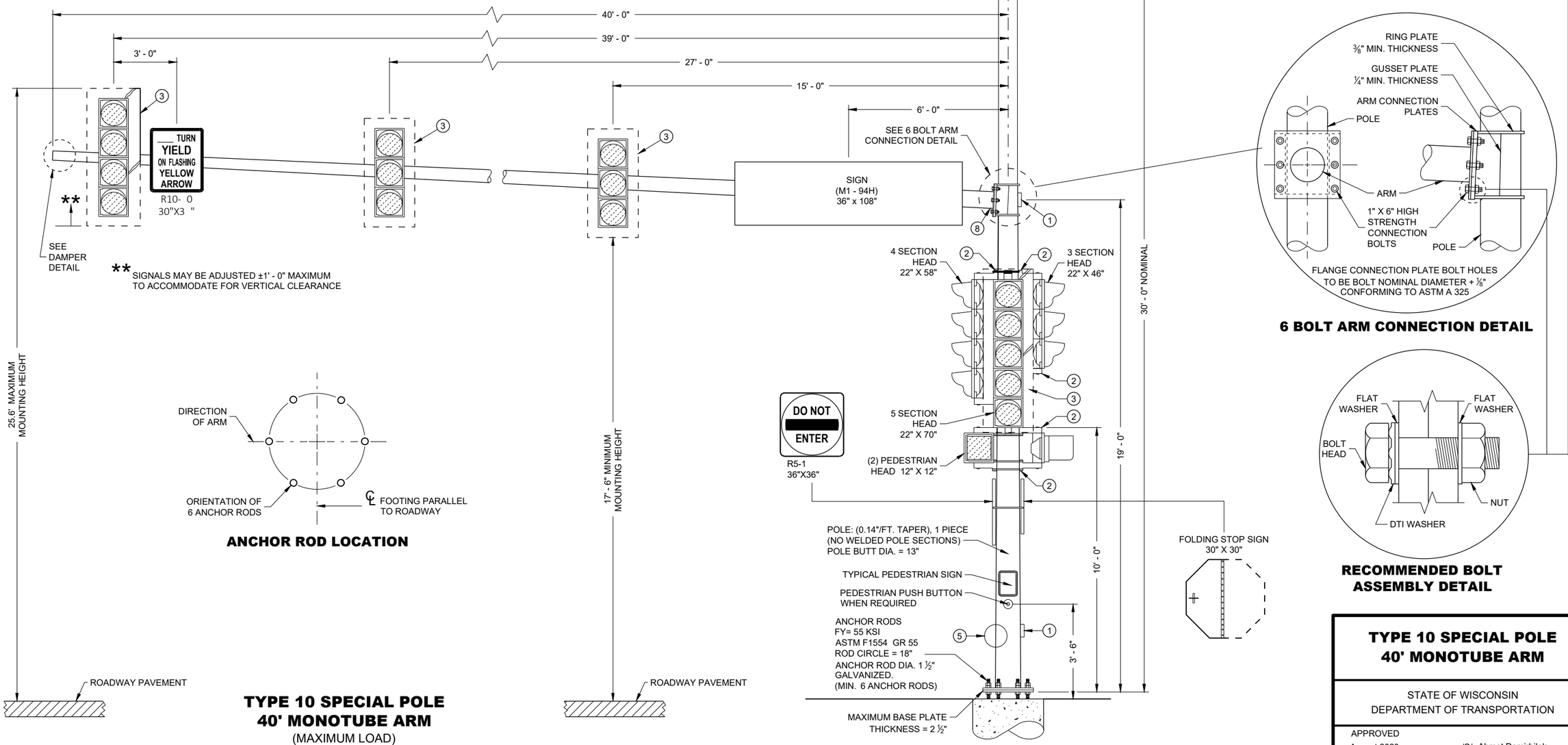
FLAT VIBRATION DAMPER

* 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 523

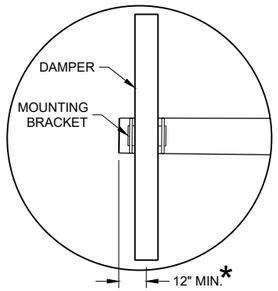
FHWA

SDD 09E08 - 09g

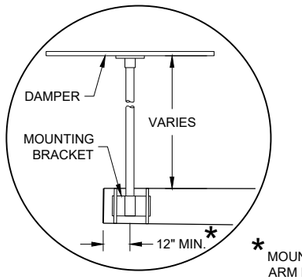
SDD 09E08 - 09g

6

6

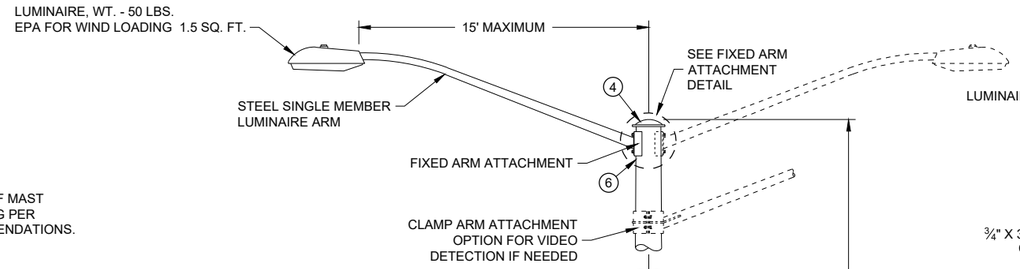


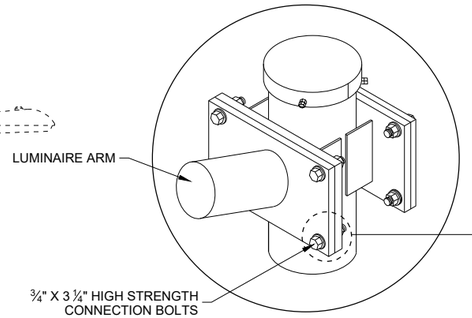
DUMBBELL VIBRATION DAMPER



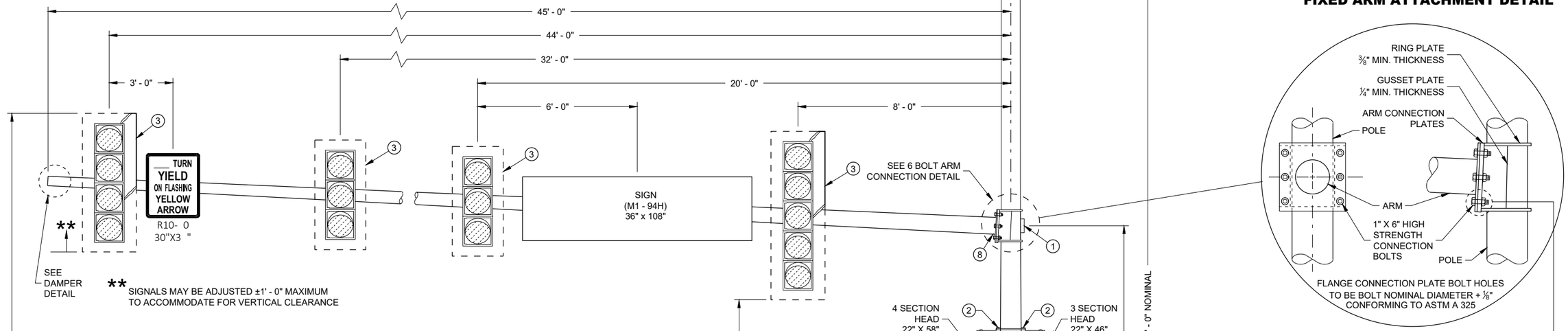
FLAT VIBRATION DAMPER

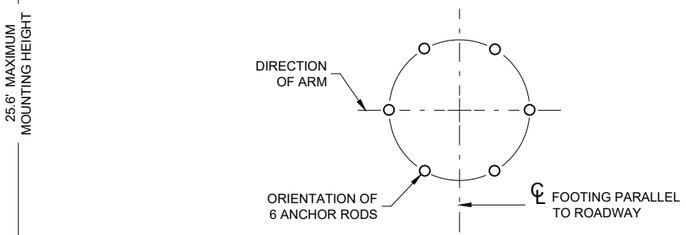
* MOUNT AS CLOSE TO END OF MAST ARM FOR MAXIMUM DAMPING PER MANUFACTURER'S RECOMMENDATIONS.





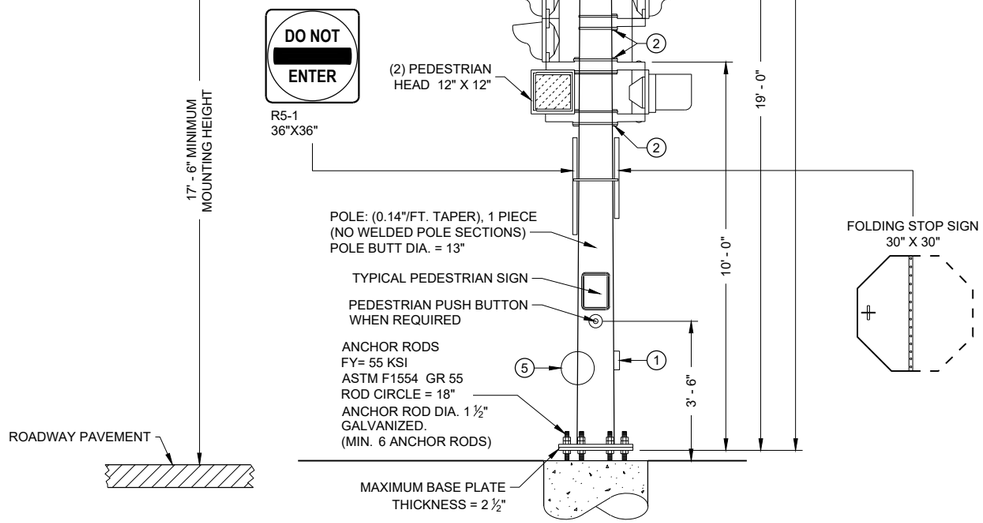
FIXED ARM ATTACHMENT DETAIL



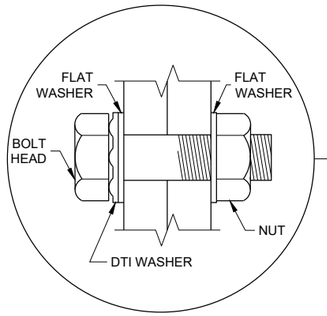


ANCHOR ROD LOCATION

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 524

FHWA

SDD 09E08 - 08h

SDD 09E08 - 08h

6

6

GENERAL NOTES

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

POLE TYPES 9 AND 10 ARE FOR ARM LENGTHS 15 FOOT TO 30 FOOT.

POLE TYPES 9 SPECIAL AND 10 SPECIAL ARE FOR ARM LENGTHS 35 FOOT, 40 FOOT, AND 45 FOOT.

POLE TYPES 12 AND 13 ARE FOR ARM LENGTHS 35 FOOT TO 55 FOOT.

MONOTUBE POLES AND ARMS SHALL BE GALVANIZED STEEL.

RING STIFFENED BUILT UP BOX TYPE OF ATTACHMENT FOR TRAFFIC SIGNAL ARM.

ONE PIECE POLE CONSTRUCTION (NO WELDED POLE SECTIONS).

STANDARD STRAIGHT ARM DESIGN (3% ± RISE).

SECTION 657, POLES OF THE STANDARD SPECIFICATION SHALL APPLY TO THIS DRAWING.

PROVIDE WIREWAY THRU POLE WALL AND ARM CONNECTION PLATES. PROVIDE ROUND, SMOOTH INSIDE SURFACE.

MANUFACTURER'S SUBMITTED POLE DESIGNS AND DRAWINGS SHALL BE SIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER AND CERTIFIED AS BEING IN COMPLIANCE WITH THE AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNAL 2015 1ST EDITION (INCLUDING INTERIM REVISIONS)" AND ALL PERTINENT WISDOT SPECIFICATIONS AND DRAWINGS FOR THE LIGHTING STRUCTURES AS FOLLOWS:

CATEGORY III FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 9 AND TYPE 10 STRUCTURES.

CATEGORY II FATIGUE LOADS OF TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 9 SPECIAL AND TYPE 10 SPECIAL STRUCTURES. IN LIEU OF DESIGNING FOR GALLOPING, A VIBRATION DAMPER MITIGATION DEVICE IS REQUIRED TO BE SUPPLIED AND INSTALLED AT THE END OF THE MAST ARM.

CATEGORY II FATIGUE FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE12 AND TYPE 13 STRUCTURES.

115 MPH (700 YEAR MRI BASIC WIND SPEED).

SECURE THE OPENING BELOW THE BASE PLATE WITH STAINLESS STEEL OR GALVANIZED STEEL MESH AND SECURE THE MESH WITH ¾" STAINLESS STEEL BANDING AROUND THE LEVELING NUTS.

INDENT PRINT (NOMINAL ½" HIGH) THE POLE LENGTH AND FIRST TWO LETTERS OF THE MANUFACTURERS NAME ON TWO SIDES OF THE BASE PLATE 180 DEGREES APART, BEFORE GALVANIZING. THE ARM SHALL BE IDENTIFIED WITH THE SAME INFORMATION BY INDENT PRINT.

SIGNAL FACE SHALL BE MOUNTED 6 INCHES (NOMINAL) FROM THE END OF THE MONOTUBE ARM OR AS SHOWN ON THE PLAN CONSTRUCTION DETAIL OR A S DIRECTED BY THE PROJECT ENGINEER/ELECTRICAL OPERATIONS PERSONNEL. MOUNT ALL LIKE HEAD AT SAME ELEVATION.

SIGN MOUNTING BRACKETS SHALL BE FURNISHED IN ACCORDANCE WITH SECTION 637 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.

(1) DESIGN FOR MAXIMUM ALLOWABLE HAND HOLE WITH COVER ASSEMBLY WITH TWO ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLTS.

(2) SIGNAL MOUNTING BRACKETS FOR POLE MOUNTING, MOUNT WITH CAP SCREW AND BANDING (SEE SPECIFICATION SECTION 658).

(3) SECURELY MOUNT BACK PLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURERS RECOMMENDATIONS.

(4) THE TOP OF THE POLE SHAFT AND THE MONOTUBE ARM SHALL BE EQUIPPED WITH A REMOVABLE, VENTILATED CAP HELD SECURELY IN PLACE WITH SET SCREWS.

(5) FACTORY WELDED BRACKET FOR GROUNDING LUG, OPPOSITE HAND HOLD, (LUG AND HARDWARE PAID UNDER SEPARATE ITEM). PROVIDE HOLE IN BRACKET FOR ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLT.

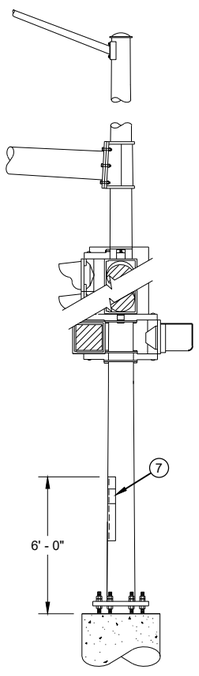
(6) FACTORY WELDED "J" HOOK FOR STRAIN RELIEF FOR POLE LUMINAIRE WIRE.

(7) INSTALL STRUCTURAL IDENTIFICATION PLAQUES.

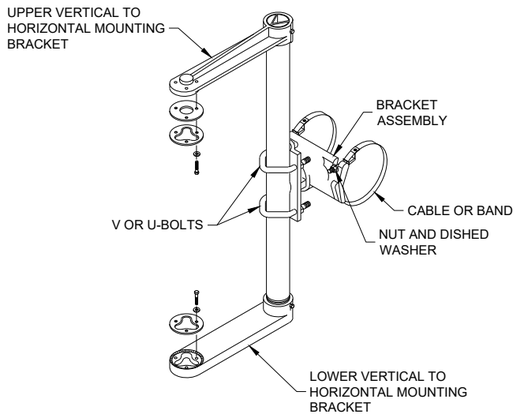
STRUCTURAL IDENTIFICATION PLAQUES SHALL BE PLACED ON THE POLES IN THE SAME DIRECTION AS THE ARM.

MOUNTING HEIGHT SHALL BE 6' - 0" ABOVE THE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL BE OBSTRUCTED.

(8) FACTORY DRILLED ½" DRAIN HOLE 2" FROM FLANGE CONNECTION PLATE.

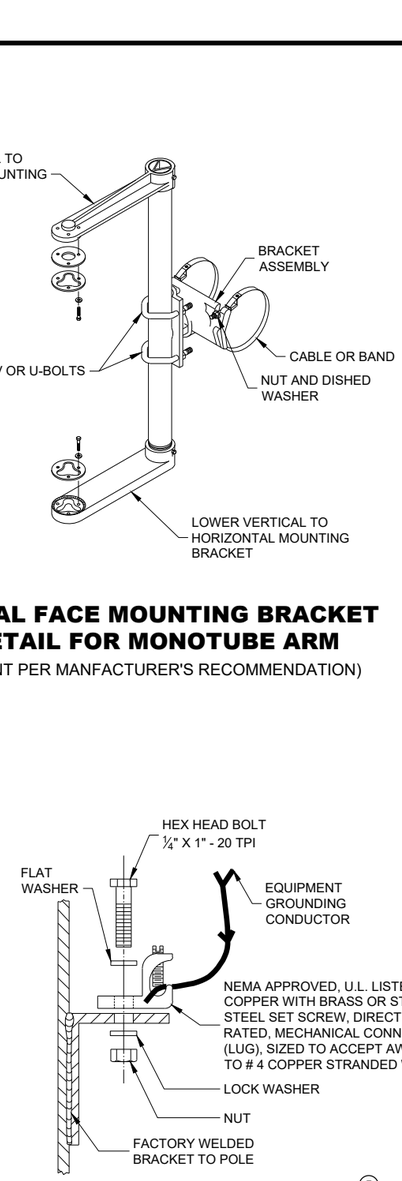


STRUCTURAL IDENTIFICATION PLAQUE PLACEMENT



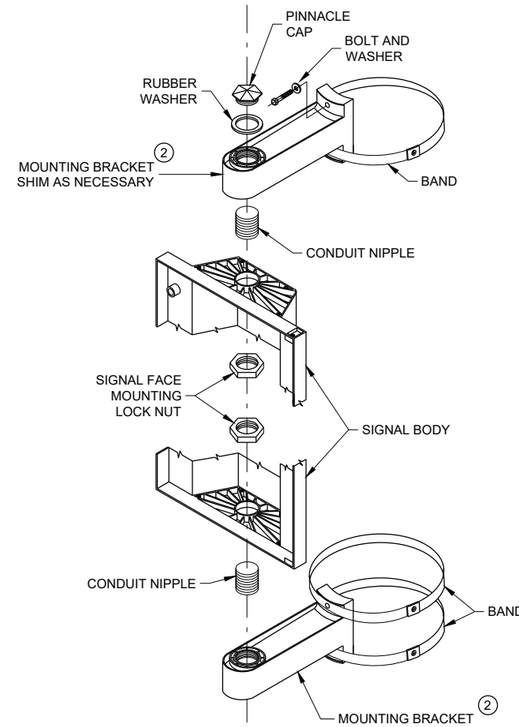
SIGNAL FACE MOUNTING BRACKET DETAIL FOR MONOTUBE ARM

(MOUNT PER MANFACTURER'S RECOMMENDATION)

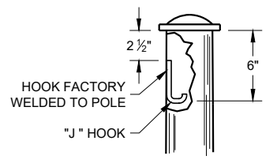


TYPICAL GROUNDING (5) CONNECTIONS

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



SIGNAL FACE VERTICAL MOUNTING DETAIL



TYPICAL "J" HOOK (6) WIRE SUPPORT

GENERAL NOTES AND HARDWARE FOR TYPES 9,10, 9/10 SPECIAL, 12 AND 13 POLES WITH MONOTUBE ARMS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGINEER

525

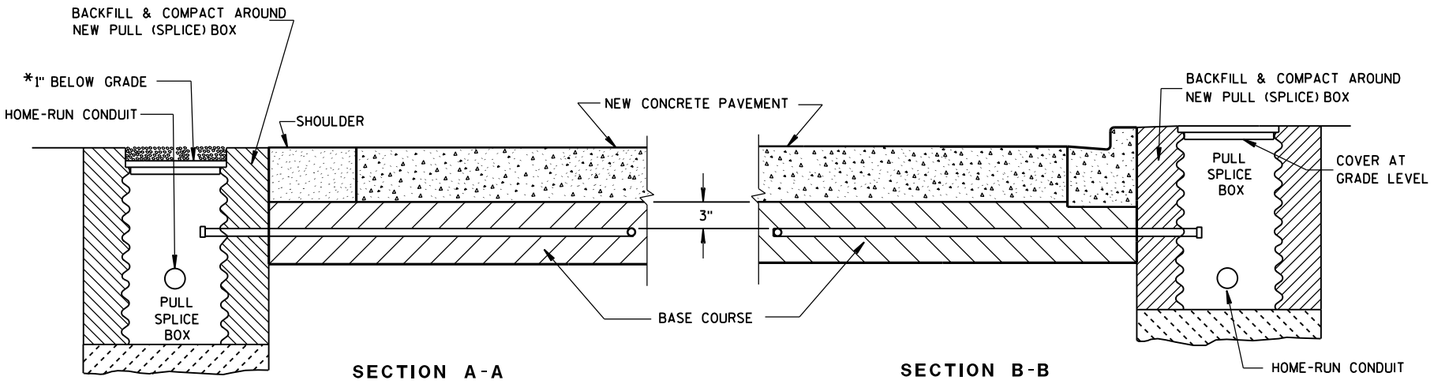
FHWA

6

6

SDD 09E08 - 09k

SDD 09E08 - 09k



SECTION A-A
NO CURB & GUTTER

SECTION B-B
CURB & GUTTER

*RECESS PULL (SPLICE) BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.

LOOP DETECTOR INSTALLATION DETAIL

GENERAL NOTES

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

LOOP SIZE, CONFIGURATION LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL (SPLICE) BOX.

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 READINGS TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

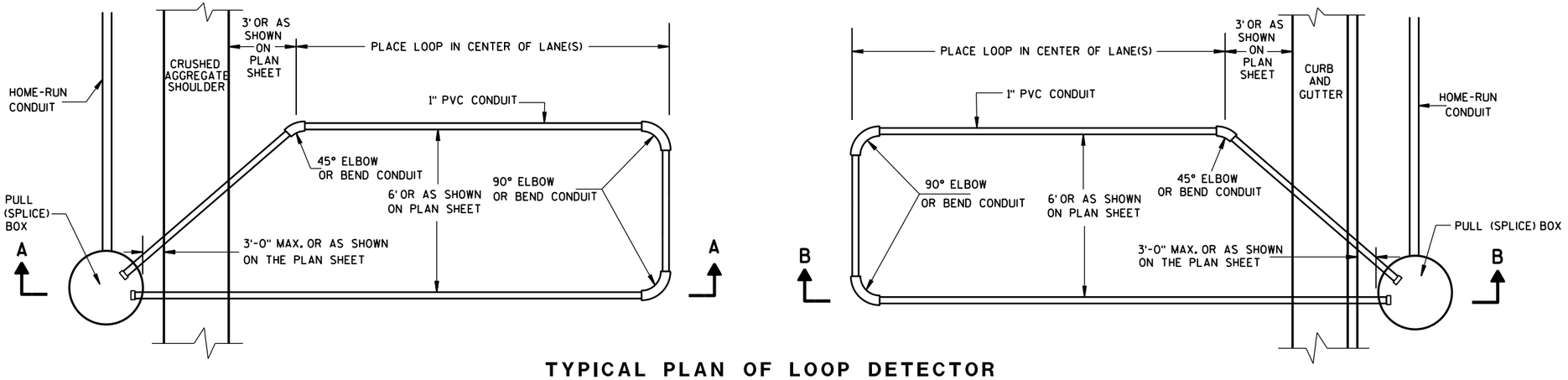
THE #12 AWG. LOOP WIRE IN THE PULL (SPLICE) BOX SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE BEING SPLICED TO THE LOOP LEAD-IN CABLE.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL (SPLICE) BOXES AT THE SIDE OF THE ROAD.

THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL (SPLICE) BOX THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL (SPLICE) BOX, AND BE INSTALLED IN ONE, NON-SPLICE CONTINUOUS LENGTH.

PROTECTION OF THE CONDUIT IN THE BASE COURSE, SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW PAVEMENT IS INSTALLED.

SHOULD INSTALLATION REPAIR BE REQUIRED, IT SHALL BE DONE UNDER THE DIRECTION OF THE PROJECT ENGINEER.



TYPICAL PLAN OF LOOP DETECTOR WITH 18" OR 24" PULL (SPLICE) BOX

LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

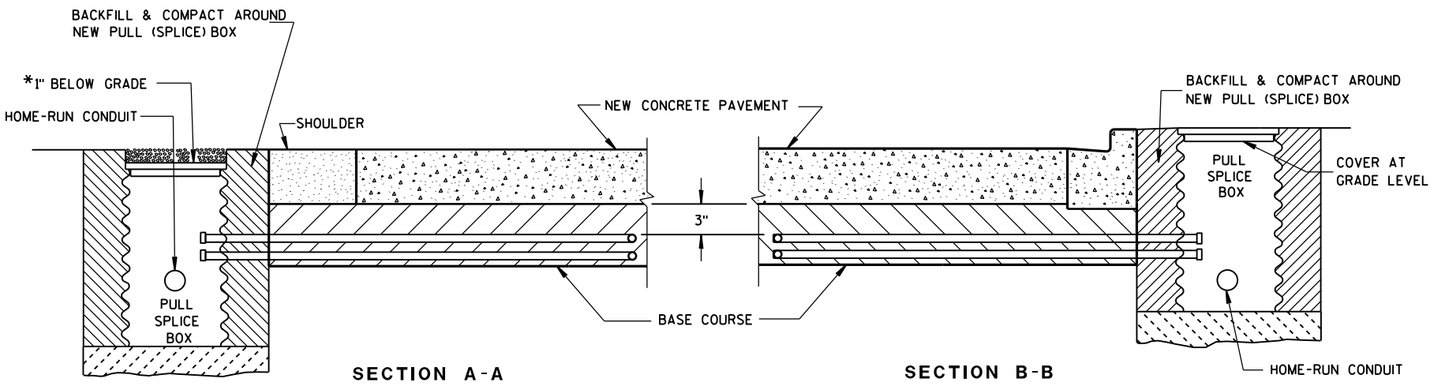
APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

S.D.D. 9 F 15-4a

6

S.D.D. 9 F 15-4a



SECTION A-A
NO CURB & GUTTER

SECTION B-B
CURB & GUTTER

*RECESS PULL (SPLICE) BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.

LOOP DETECTOR INSTALLATION DETAIL

GENERAL NOTES

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

LOOP SIZE, CONFIGURATION LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL (SPLICE) BOX.

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 READINGS TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

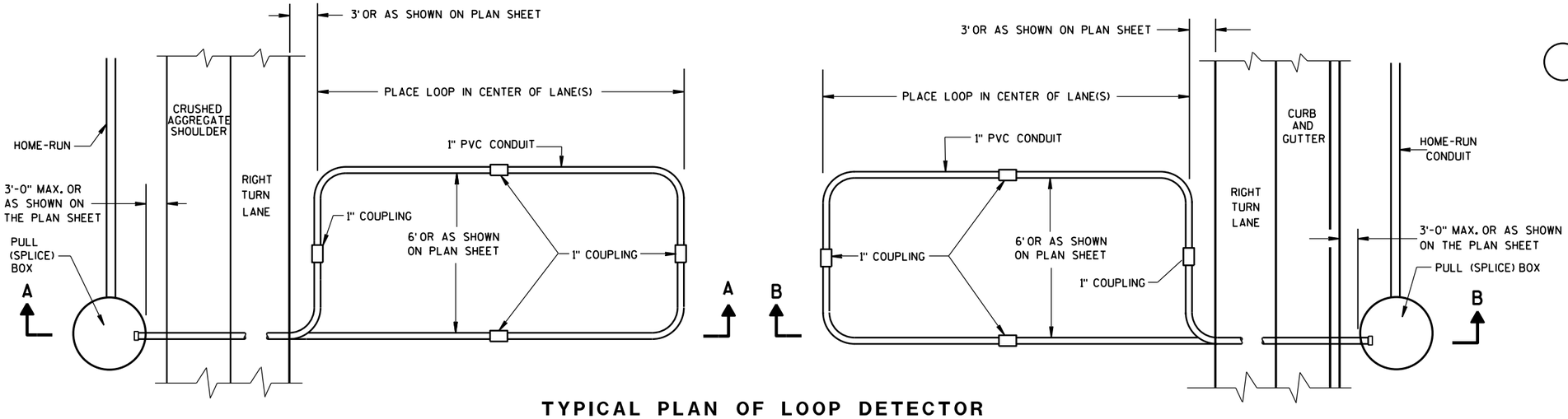
THE #12 AWG. LOOP WIRE IN THE PULL (SPLICE) BOX SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE BEING SPLICED TO THE LOOP LEAD-IN CABLE.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL (SPLICE) BOXES AT THE SIDE OF THE ROAD.

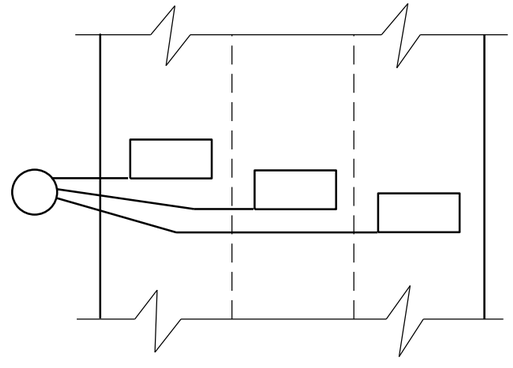
THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL (SPLICE) BOX, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL (SPLICE) BOX, AND BE INSTALLED IN ONE, NON-SPLICED CONTINUOUS LENGTH.

PROTECTION OF THE CONDUITS IN THE BASE COURSE SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW PAVEMENT IS INSTALLED.

SHOULD INSTALLATION REPAIR BE REQUIRED, IT SHALL BE DONE UNDER THE DIRECTION OF THE PROJECT ENGINEER.



TYPICAL PLAN OF LOOP DETECTOR WITH 24" PULL (SPLICE) BOX



MULTI-LANE INSTALLATION

LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

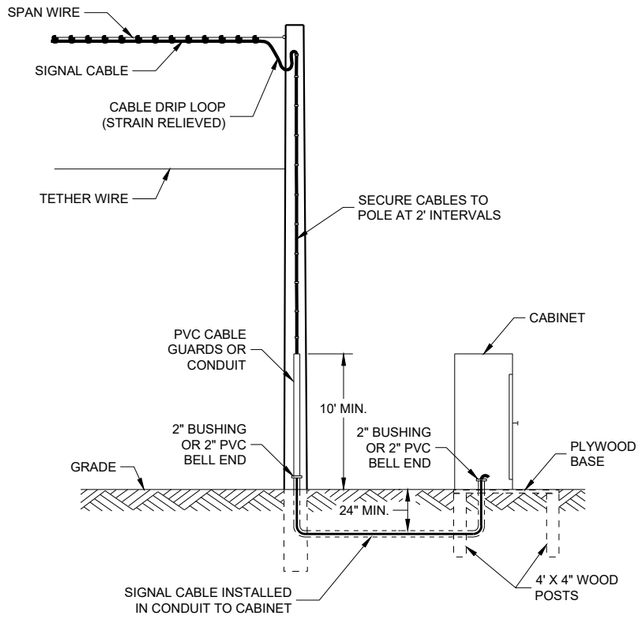
APPROVED
Sept. 2014
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL 527
FHWA

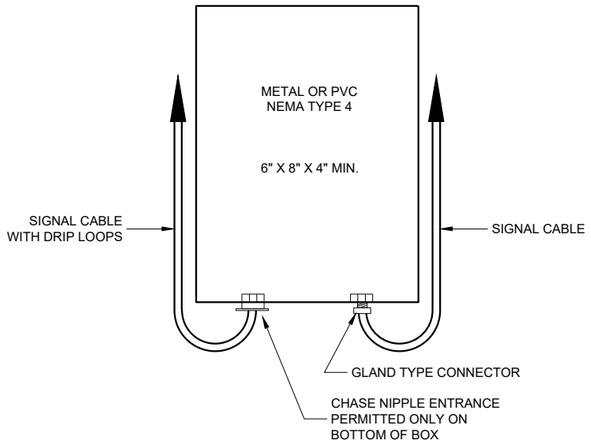
6

S.D.D. 9 F 15-4b

6

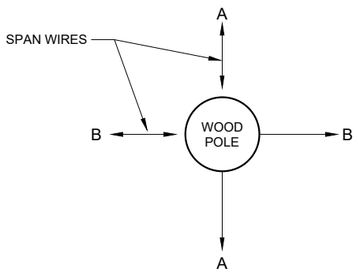
S.D.D. 9 F 15-4b





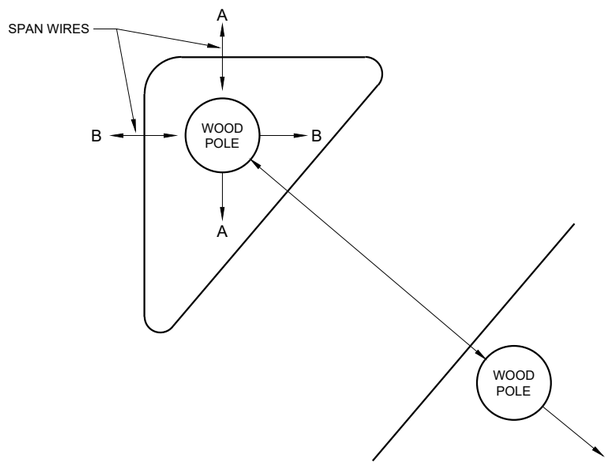
SPLICE BOX

TYPICAL SKID TYPE TEMPORARY

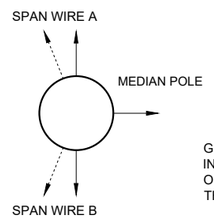


ALL DOWN OR SIDEWALK GUYS SHALL BE INSTALLED IN THE OPOSITE DIRECTION OF THE STRAIN OF THE SPAN WIRE

CORNER POLES



ISLAND POLES



GUY AWAY FROM
INTERSECTION OR IN
OPPOSITE DIRECTION OF
THE SPAN LOADING

MEDIAN POLES

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

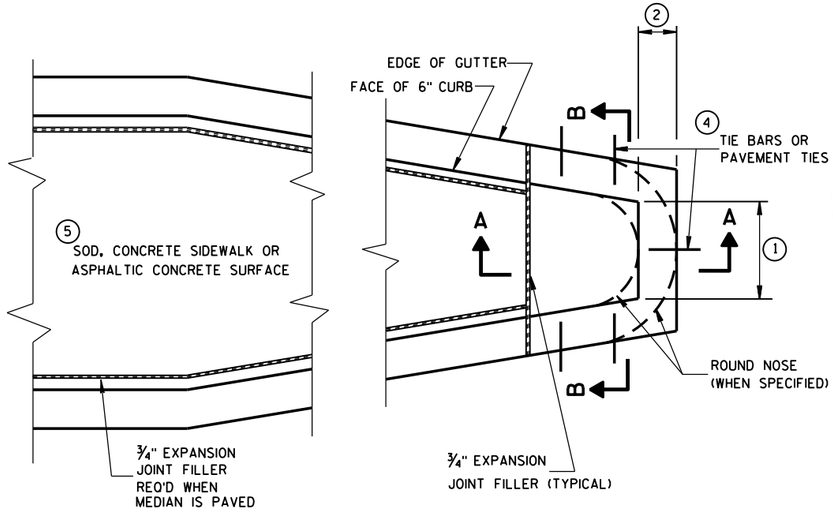
APPROVED
June 2015
DATE

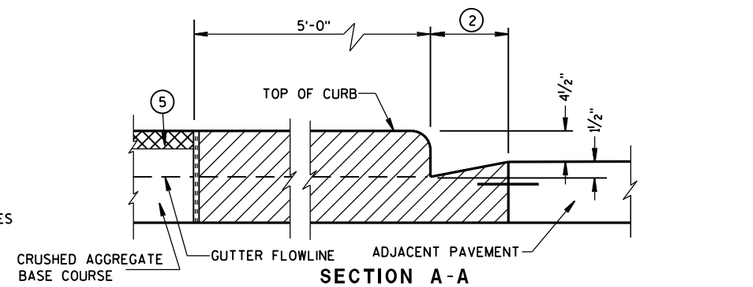
/S/ Ahmet Demerbilek
ROADWAY STANDARDS DEVE ENGINEER

FHWA

6

SDD 09G01 - 4g





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.

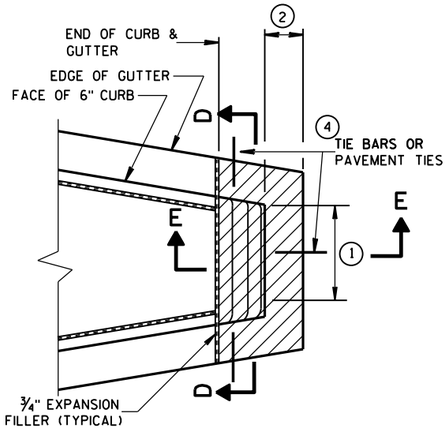
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

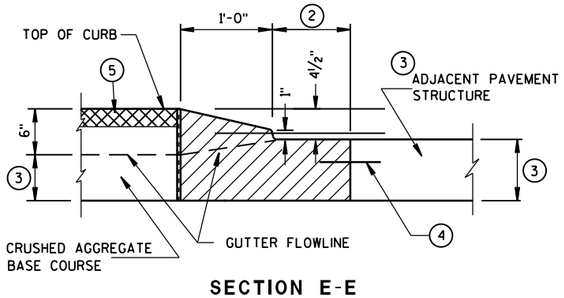
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

(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.

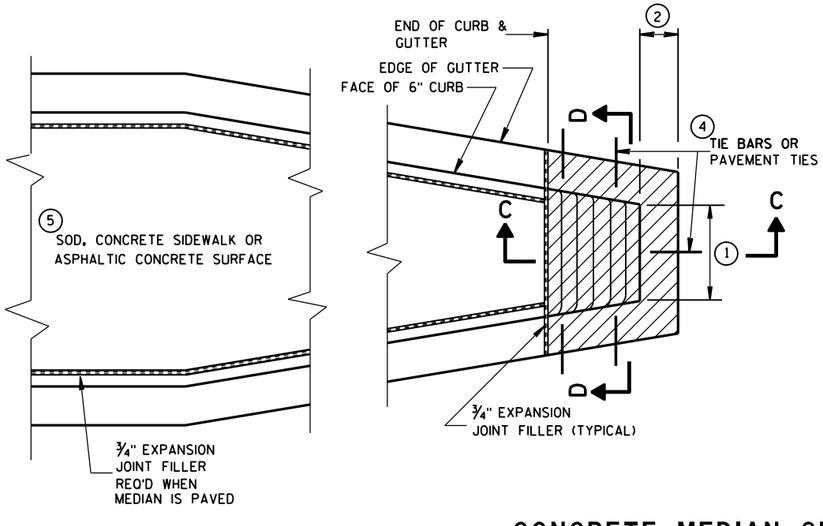
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

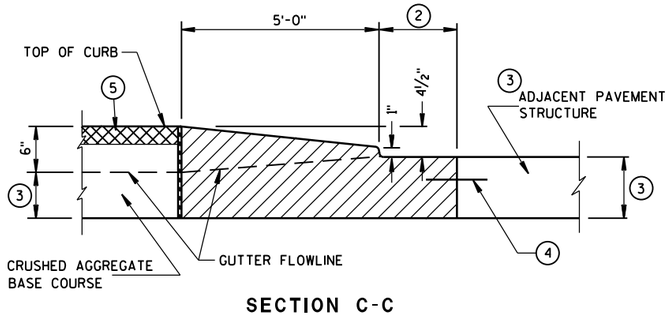




SECTION E-E

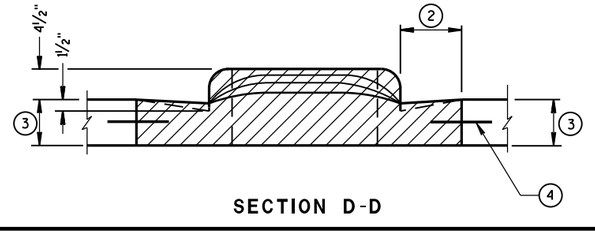
CONCRETE MEDIAN SLOPED NOSE TYPE 2





SECTION C-C

CONCRETE MEDIAN SLOPED NOSE TYPE 1



SECTION D-D

CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

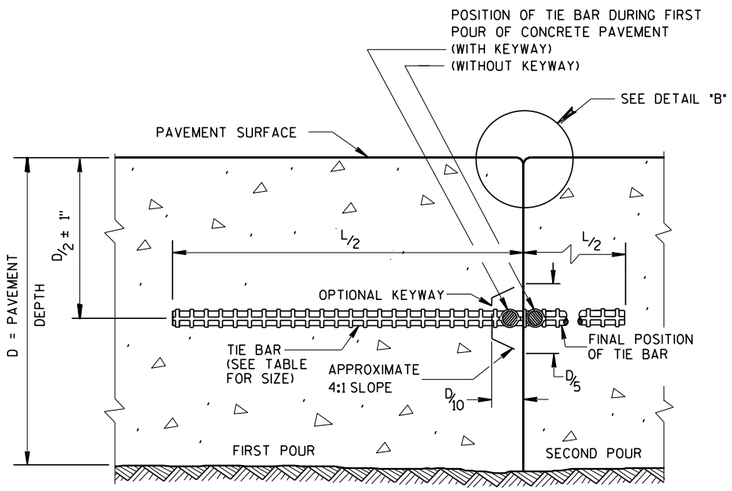
APPROVED
6/8/2006
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

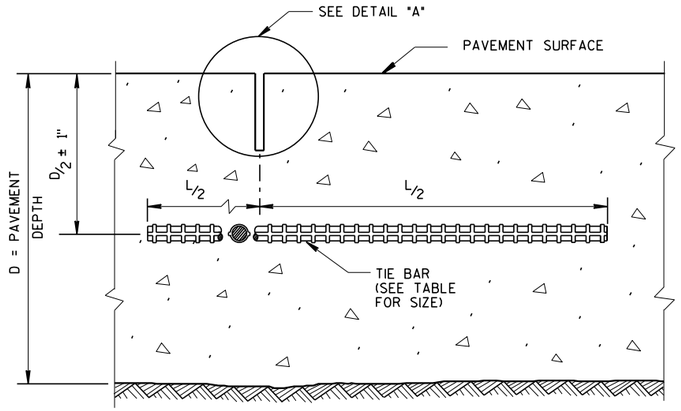
S.D.D. 11 B 2-2

6

S.D.D. 11 B 2-2



CONSTRUCTION JOINT



SAWED JOINT

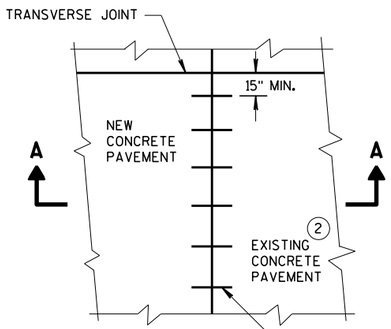
GENERAL NOTES

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

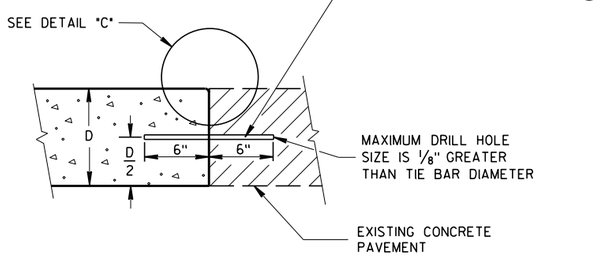
CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

(2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.

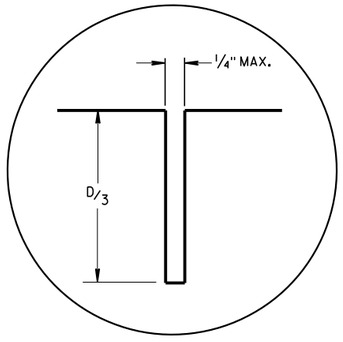


PLAN VIEW

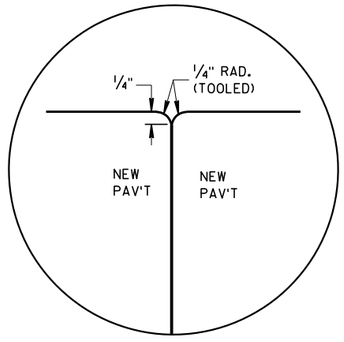


SECTION A-A

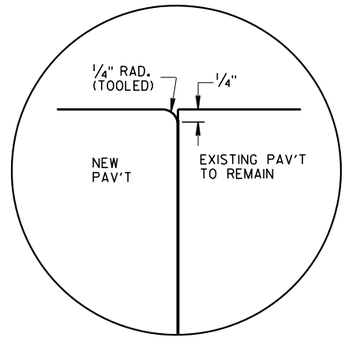
LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT



DETAIL "A"



DETAIL "B"



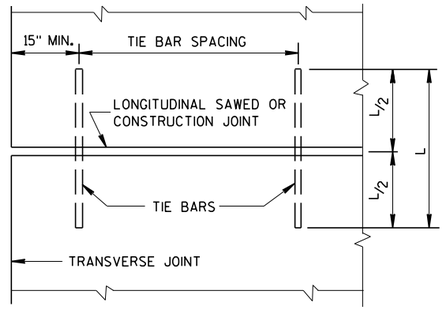
DETAIL "C"

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.



PLAN VIEW
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT
LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

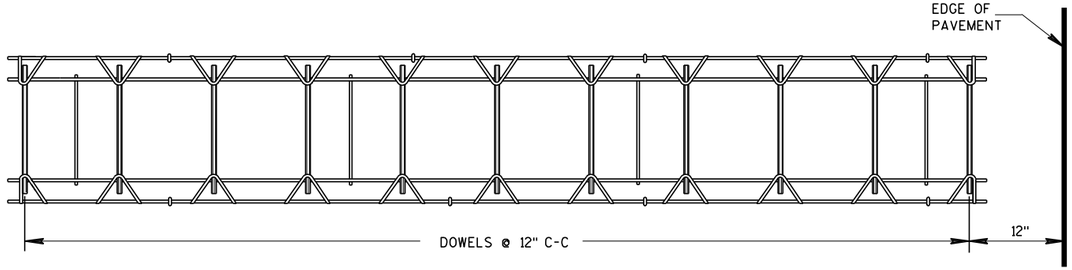
APPROVED
March 2018
DATE
/S/ Peter Kerr, PE
PAVEMENT SUPE
FHWA

6

S.D.D. 13 C 1-19

6

S.D.D. 13 C 1-19

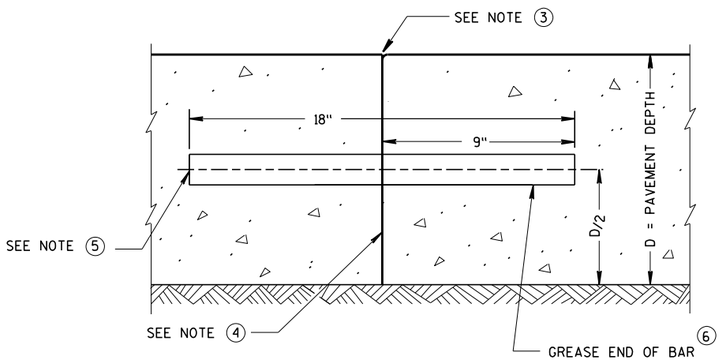


PLAN VIEW

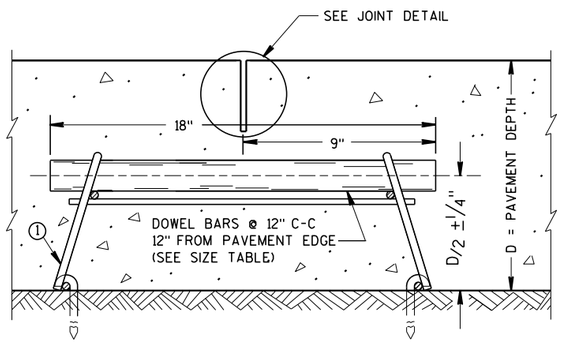


SIDE VIEW

CONTRACTION JOINT DOWEL ASSEMBLY ①



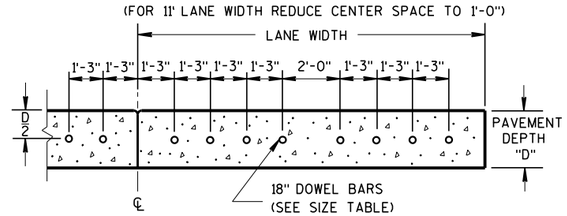
TRANSVERSE CONSTRUCTION JOINT



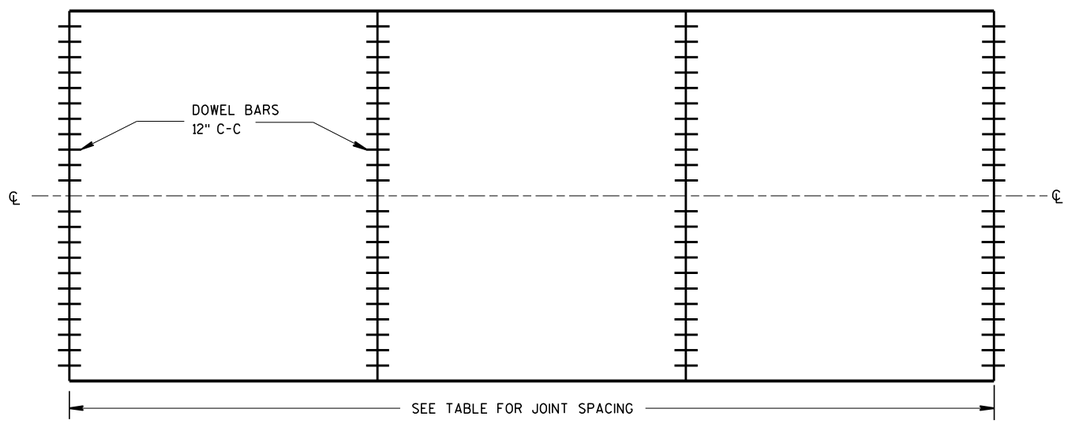
DOWELED CONTRACTION JOINT

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 ¼"	15'
9", 9 ½"	1 ¼"	15'
10" & ABOVE	1 ½"	15'



DRILLED DOWEL BAR CONSTRUCTION JOINT ⑦



CONTRACTION JOINT LOCATIONS

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES AND A MAXIMUM OF 18 INCHES FROM THE LONGITUDINAL JOINT AND THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.

① OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTING CONTRACTION JOINTS.

② SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.

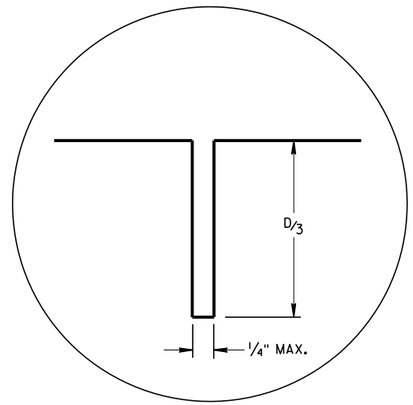
③ FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A ¼-INCH RADIUS AT FORMED JOINTS.

④ PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.

⑤ INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C-C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO *DRILLED DOWEL BAR CONSTRUCTION JOINT* DETAIL.

⑥ APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

⑦ ANCHOR DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS ⅛-INCH GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.



JOINT DETAIL

URBAN DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUP 531

FHWA

6

S.D.D. 13 C 13-9

6

S.D.D. 13 C 13-9

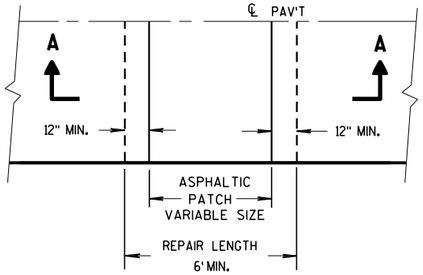
GENERAL NOTES

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.

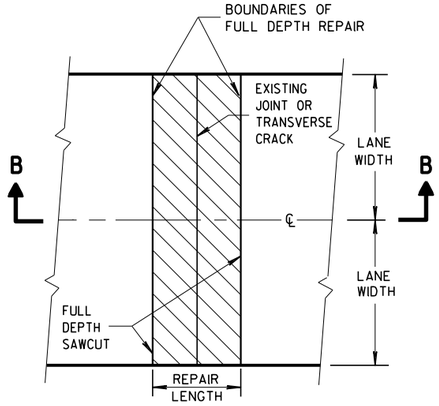
PROVIDE 6-FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREAS TO ADJACENT TRANSVERSE JOINT OR CRACK.

THE LENGTH OF THE REPAIRS MAY VARY FROM THE DIMENSIONS SHOWN IF THE EXISTING CONCRETE PAVEMENT IS NONDOWELED AND THE PAVEMENT IS TO BE OVERLAID AFTER REPAIRING.

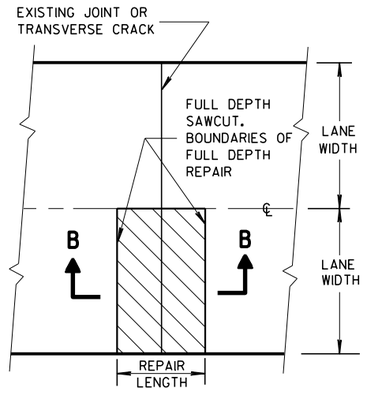
(1) DOWEL BARS MIGHT NOT EXIST.



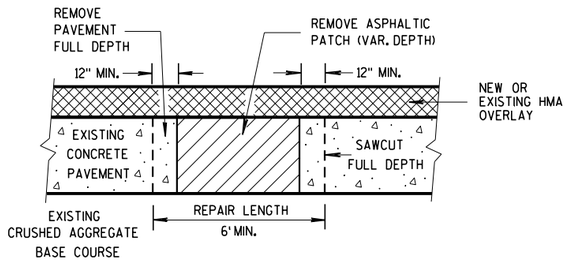
PLAN VIEW



PLAN VIEW
(DOUBLE LANE REPAIR)



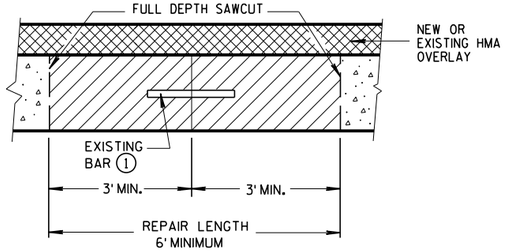
PLAN VIEW
(SINGLE LANE REPAIR)



SECTION A-A

HMA PATCH REMOVAL

FULL DEPTH CONCRETE PAVEMENT REMOVAL



SECTION B-B

CONCRETE REMOVAL

BASE PATCHING CONCRETE

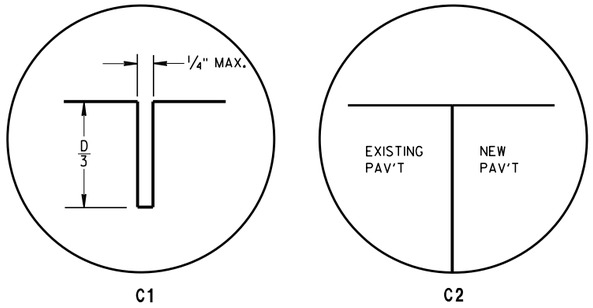
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

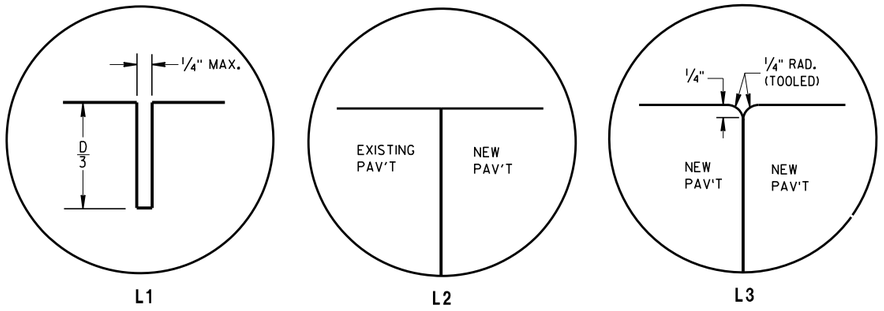
S.D.D. 13 C 14-7a

6

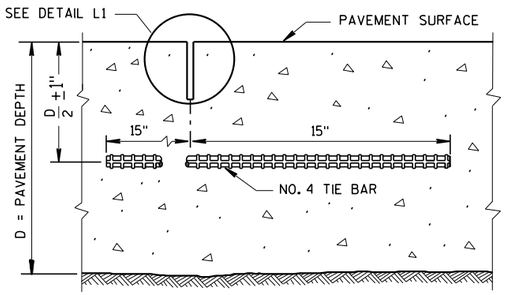
S.D.D. 13 C 14-7a



TRANSVERSE JOINTS

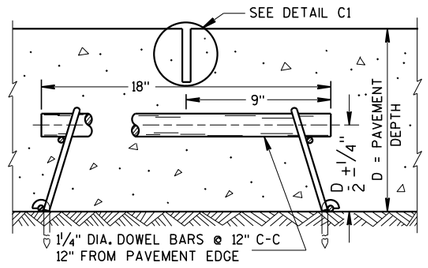


LONGITUDINAL JOINTS



SECTION C-C

SAWED LONGITUDINAL JOINT



SECTION F-F

CONTRACTION JOINT

GENERAL NOTES

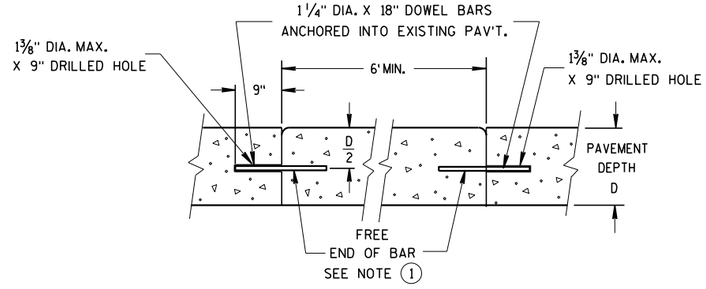
INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

CONCRETE BASE PATCHES OF EXISTING NONDOWELED CONCRETE PAVEMENTS DO NOT NEED TO BE DOWELED.

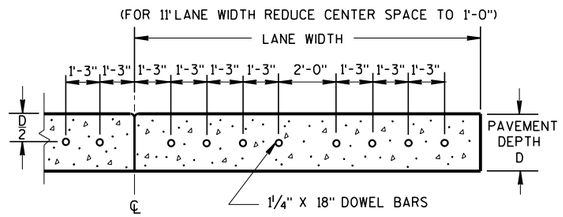
ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

PROVIDE A MINIMUM DISTANCE OF 15 INCHES FROM AN EXISTING TRANSVERSE JOINT OR THE EDGE 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.

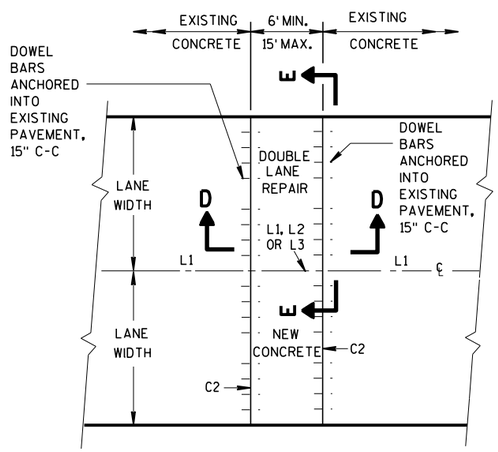


SECTION D-D



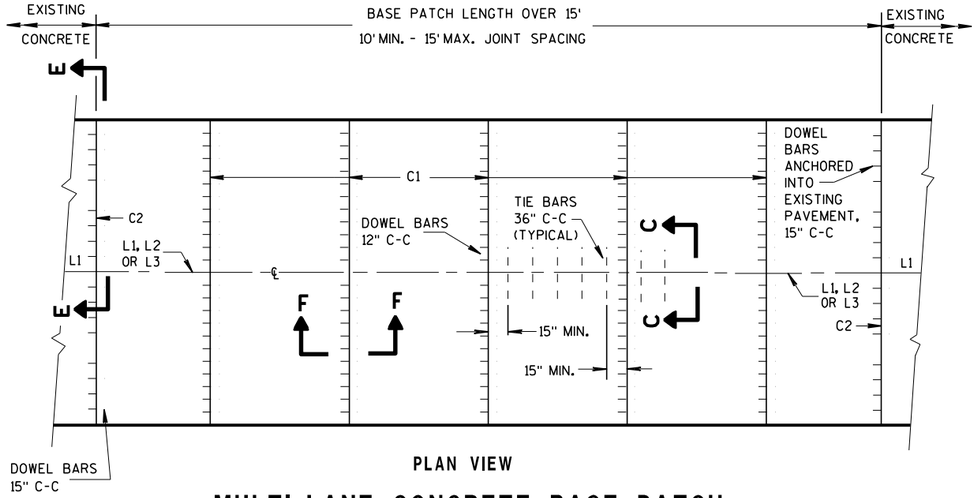
SECTION E-E

SPACING OF DOWEL BARS ANCHORED INTO EXISTING PAVEMENT



PLAN VIEW

MULTI-LANE CONCRETE BASE PATCH 15' MAXIMUM LENGTH



PLAN VIEW

MULTI-LANE CONCRETE BASE PATCH GREATER THAN 15' IN LENGTH

BASE PATCHING CONCRETE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 13 C 14-7b

6

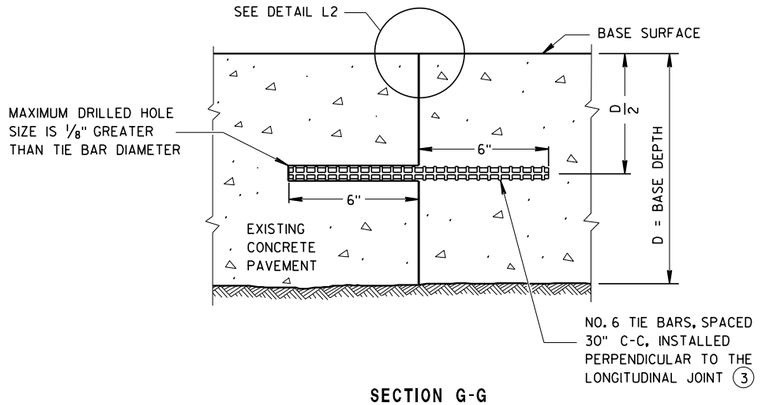
S.D.D. 13 C 14-7b

GENERAL NOTES

(1) USE AN ENGINEER-APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) FOR SINGLE LANE BASE PATCHES UP TO 15 FEET IN LENGTH.

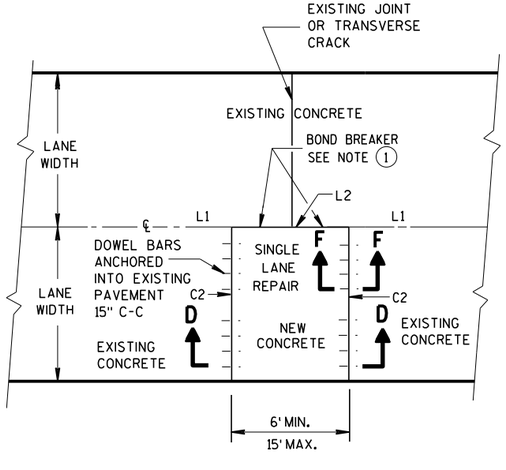
(2) WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH, DRILLED TIE BARS MAY BE INSTALLED ON 6:1 SKEW HORIZONTALLY, DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR. DRIVE SKEWED TIE BARS TO A DEPTH OF 6 INCHES IN A HOLE OF SUCH A DIAMETER AS TO PROVIDE A TIGHT DRIVEN FIT.

(3) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



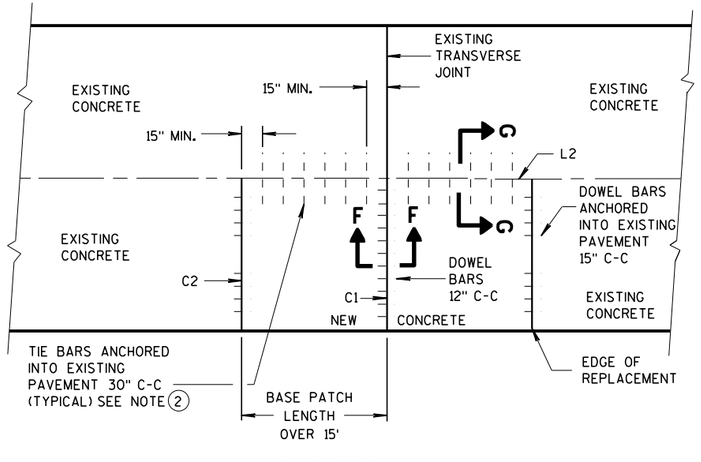
SECTION G-G

TIE BARS ANCHORED INTO EXISTING PAVEMENT



PLAN VIEW

SINGLE LANE CONCRETE BASE PATCH 15' MAXIMUM LENGTH



PLAN VIEW

SINGLE LANE CONCRETE BASE PATCH GREATER THAN 15' IN LENGTH

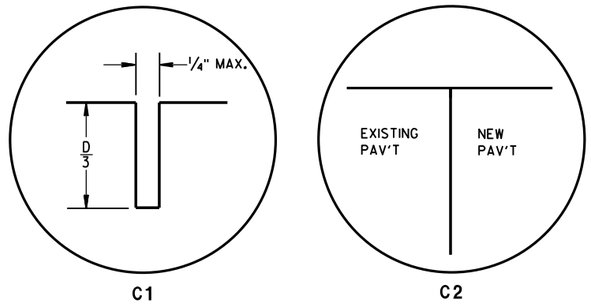
BASE PATCHING CONCRETE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Peter Kemp P.E. — PAVEMENT SUPERVISOR
FHWA

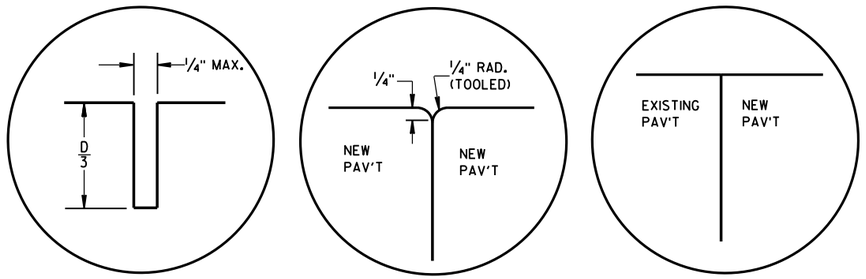
6

S.D.D. 13 C 14-7c



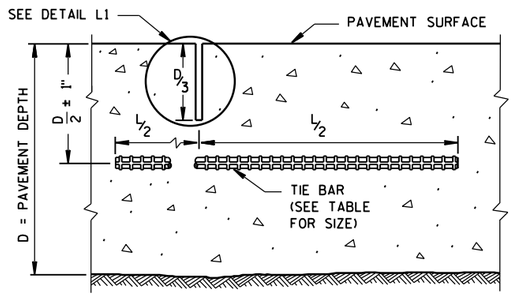
C1 C2

TRANSVERSE JOINTS



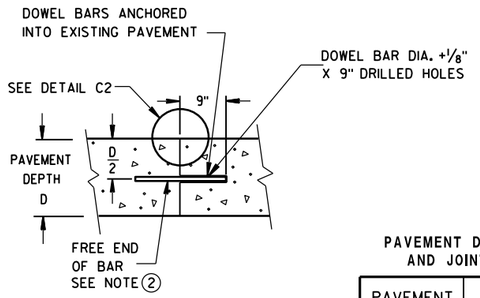
L1 L2 L3

LONGITUDINAL JOINTS



SECTION C-C

SAWED JOINT



SECTION D-D

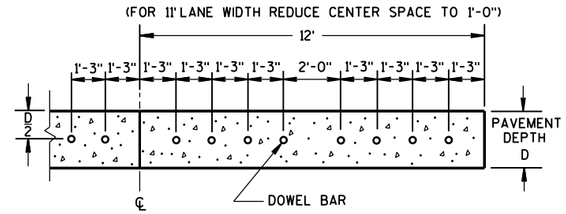
GENERAL NOTES

ANCHOR TIE BARS AND DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY.

PROVIDE A MINIMUM DISTANCE OF 15 INCHES FROM AN EXISTING TRANSVERSE JOINT OR THE EDGE OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT OR EDGE.

(1) INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

(2) APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.



SECTION E-E

SPACING OF DOWEL BARS ANCHORED INTO EXISTING PAVEMENT

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

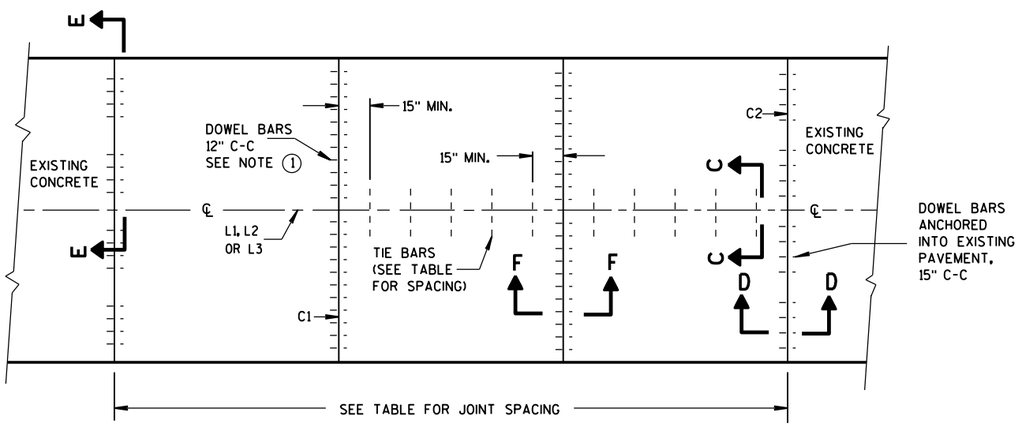
PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5½", 6, 6 ½"	NONE	12'
7, 7 ½"	1"	14'
8, 8 ½"	1 ¼"	15'
9, 9 ½"	1 ¼"	15'
10" & ABOVE	1 ½"	15'

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" **

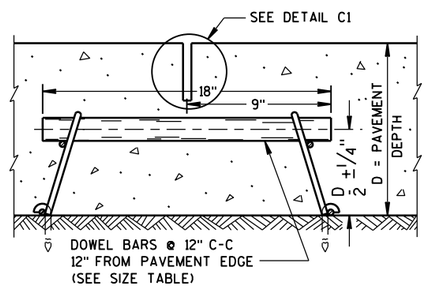
* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.



PLAN VIEW

CONCRETE BASE CONTRACTION JOINT LOCATIONS



SECTION F-F

CONTRACTION JOINT

CONCRETE BASE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6

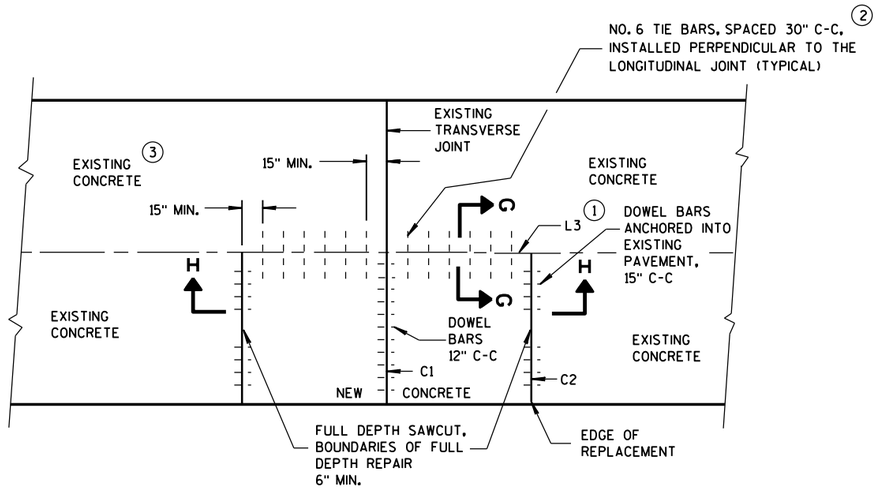
S.D.D. 13 C 15-6a

GENERAL NOTES

(1) USE AN ENGINEER-APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) AT THE LONGITUDINAL JOINT IN LIEU OF TIE BARS FOR SINGLE LANE CONCRETE BASE REPAIRS UP TO 15 FEET IN LENGTH.

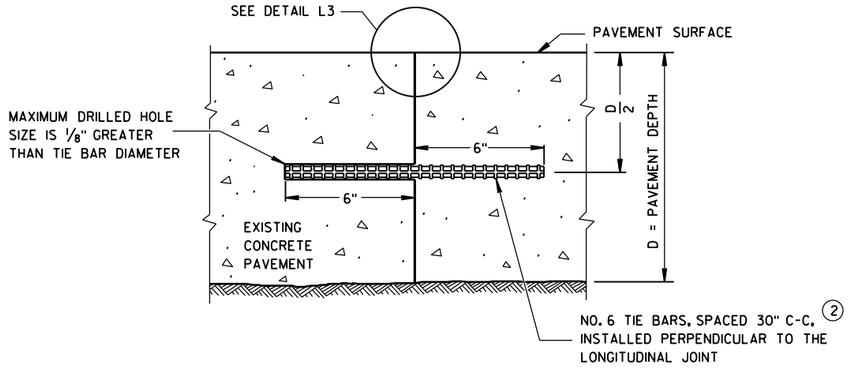
(2) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

(3) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.



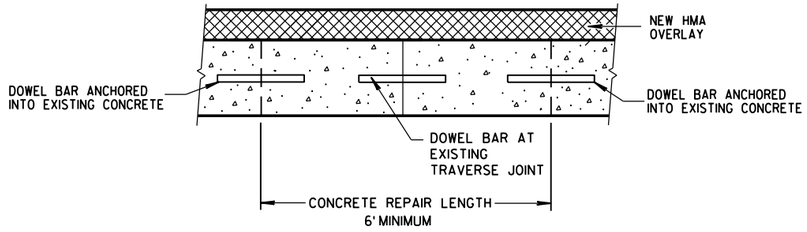
PLAN VIEW

SINGLE LANE CONCRETE BASE REPAIR



SECTION G-G

TIE BARS ANCHORED INTO EXISTING PAVEMENT



SECTION H-H

CONCRETE BASE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

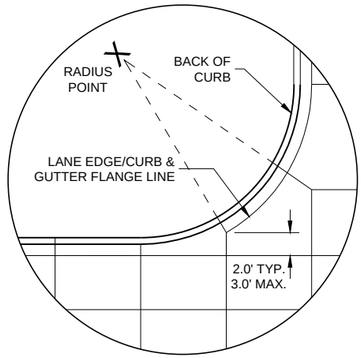
APPROVED
June, 2015 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPEI
FHWA

6

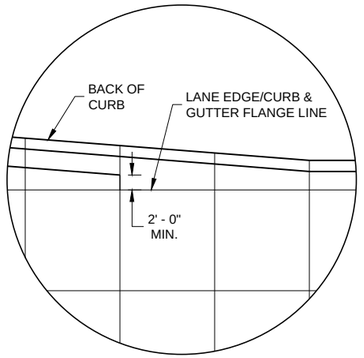
S.D.D. 13 C 15-6b

6

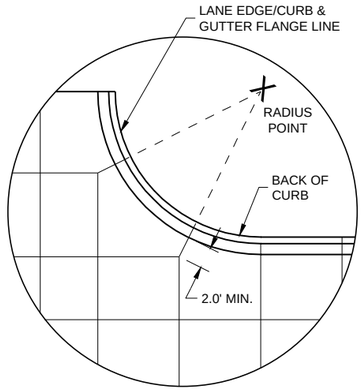
S.D.D. 13 C 15-6b



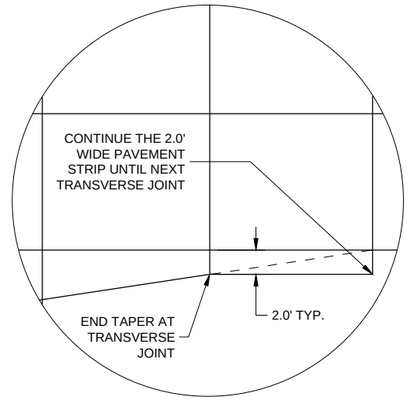
DETAIL "A"



DETAIL "B"



DETAIL "C"



DETAIL "D"

GENERAL NOTES

THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.

ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.

CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.

ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

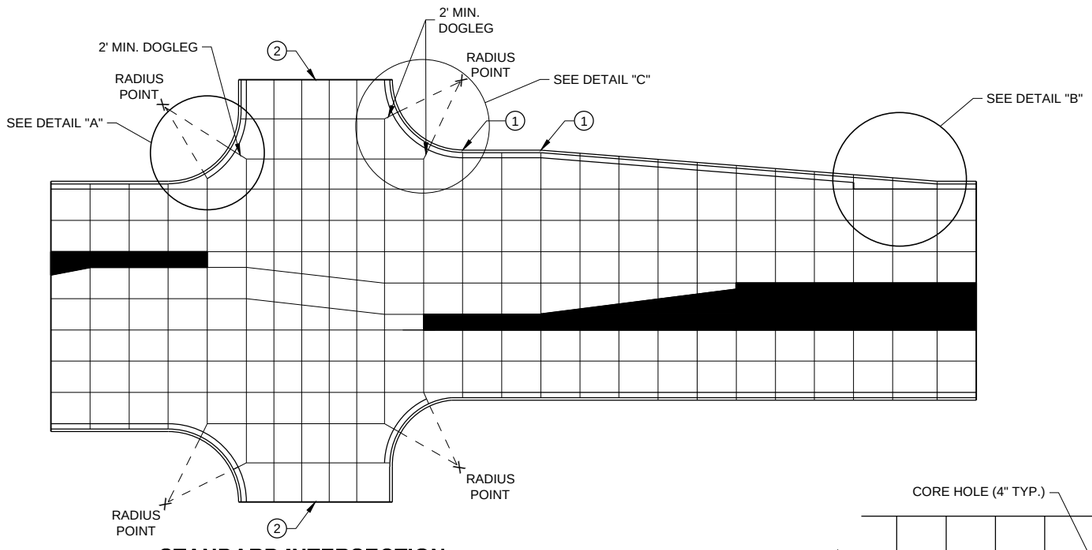
AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.

AVOID ANGLES LESS THAN 60 B DOGLEGGING OINTS T RO G C R E RADI S POINTS. SE 90 ANGLES W EN POSSIBLE.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

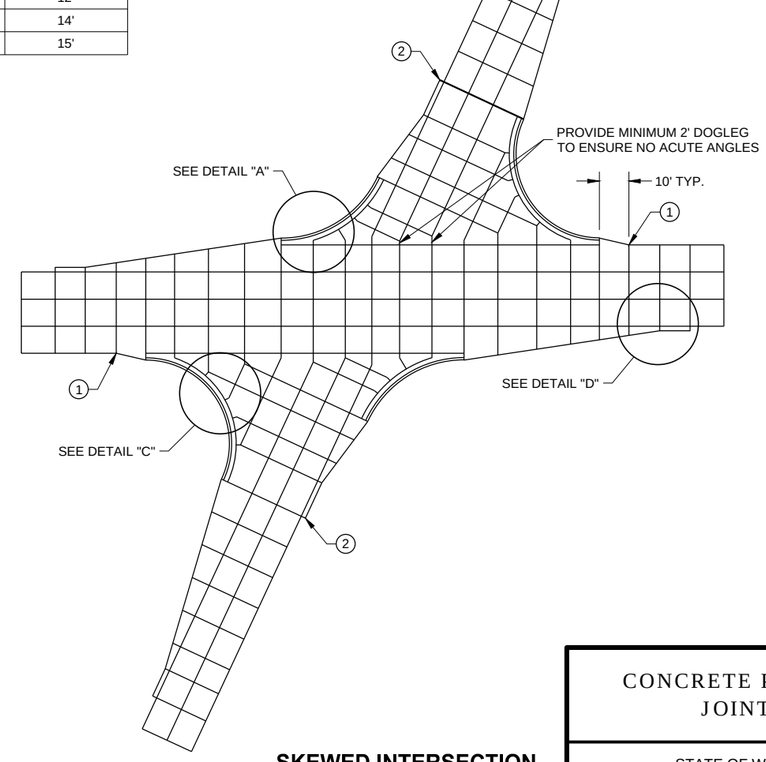
1. PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.
2. CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITHEDGE OF RADIUS.
3. THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



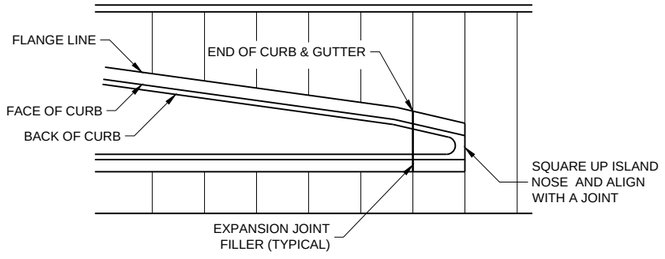
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

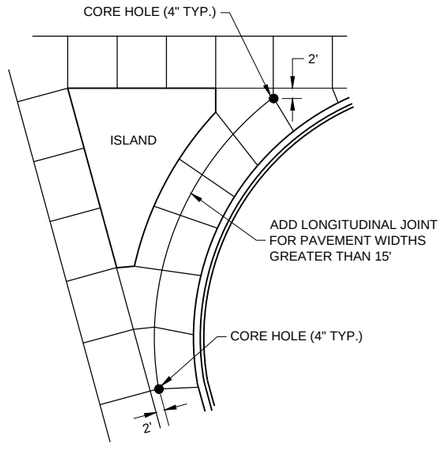
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6 ½"	12'
7", 7 ½"	14'
8" & ABOVE	15'



SKEWED INTERSECTION



APPROACH TO MEDIAN



LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

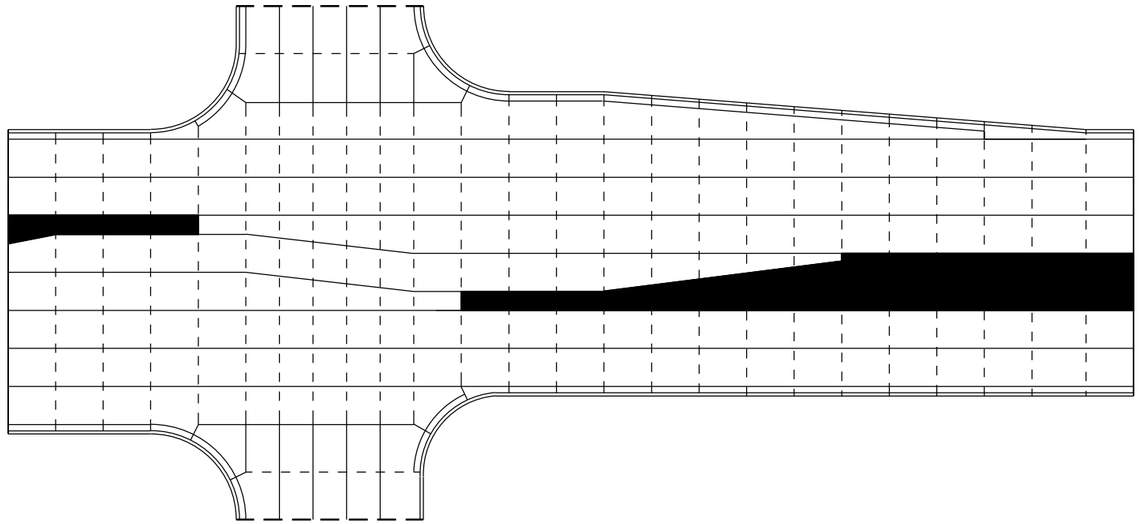
6
SDD 13C18 - 07a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

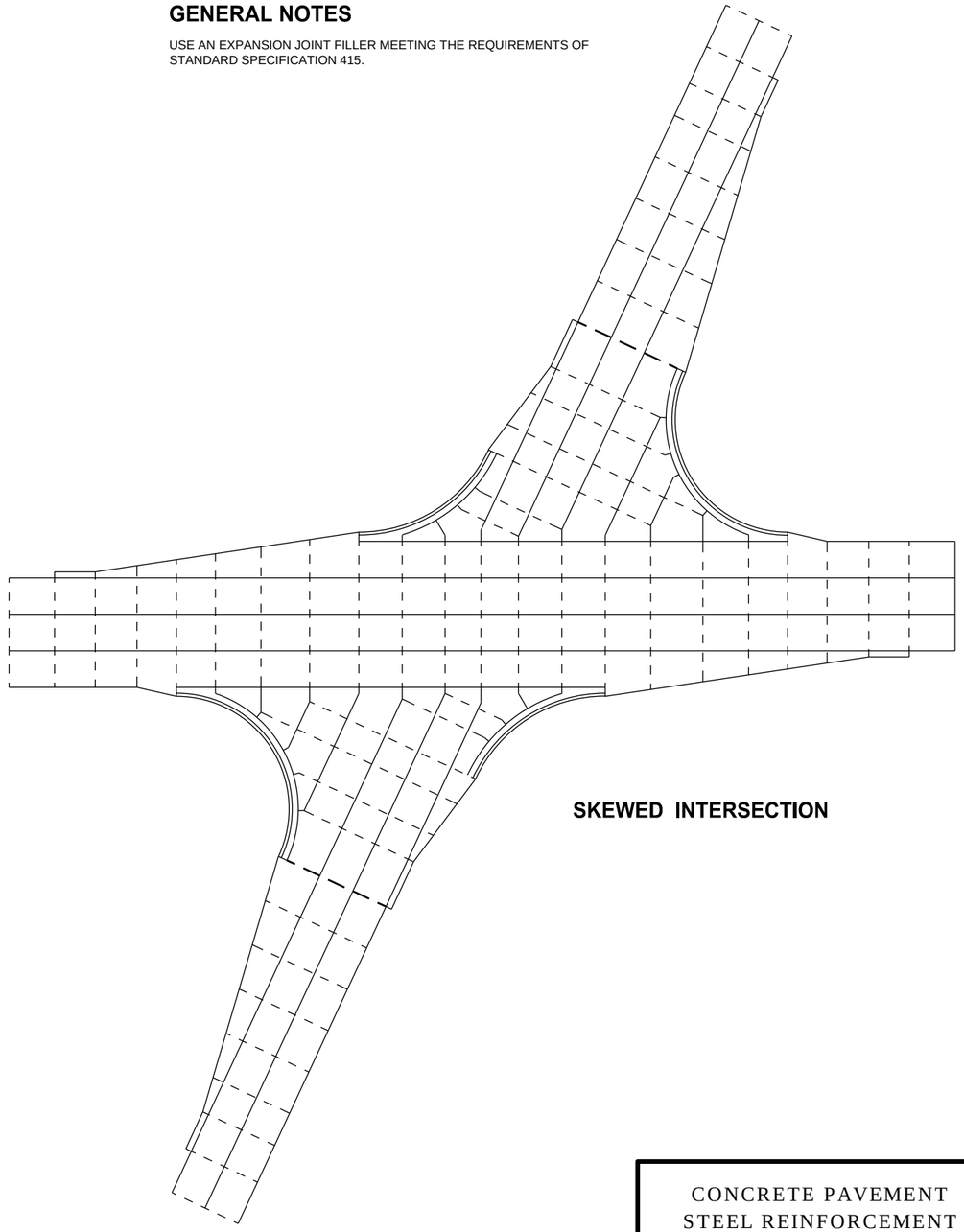
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

6

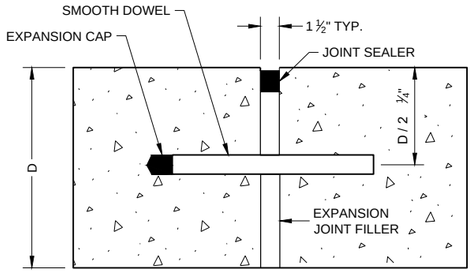
SDD 13C18 - 07b

CONCRETE PAVEMENT
STEEL REINFORCEMENT

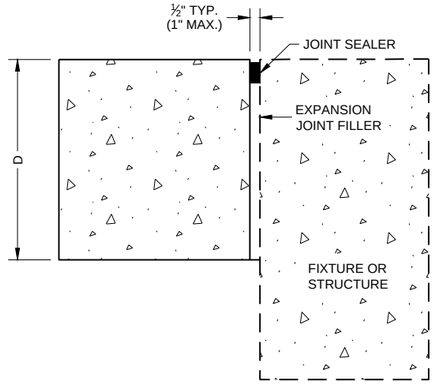
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 13C18 - 07b



DOWELED TRANSVERSE (1)



UNTIED - LONGITUDINAL

EXPANSION JOINTS

TIE BAR TABLE

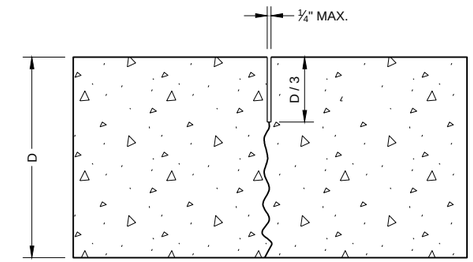
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
10 ½"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

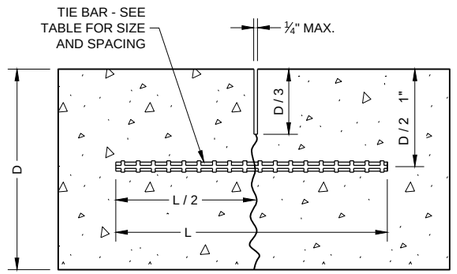
** CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

GENERAL NOTES

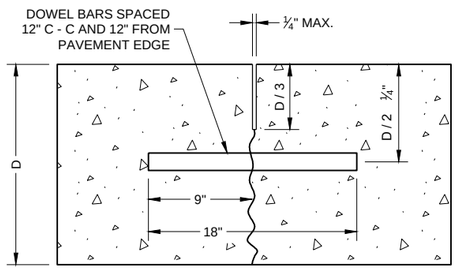
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATETHE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH SDD 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM 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

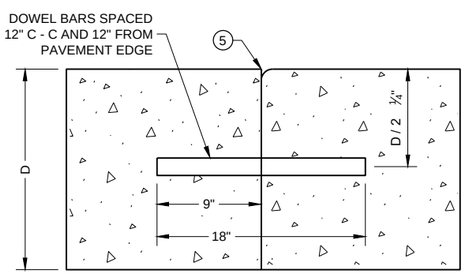


TIED LONGITUDINAL

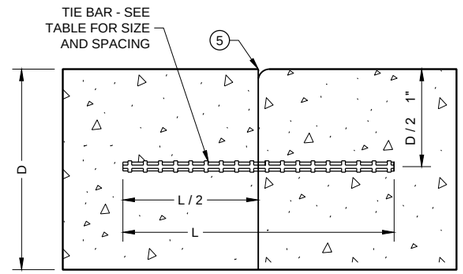


DOWELED TRANSVERSE

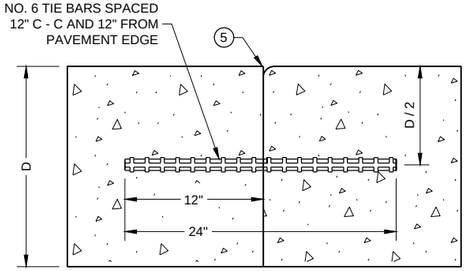
CONTRACTION JOINTS (2)



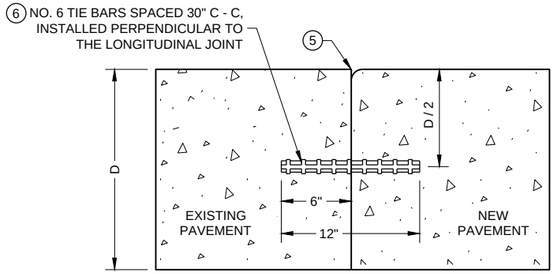
DOWELED TRANSVERSE (3)



TIED LONGITUDINAL



TIED TRANSVERSE (3)
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)

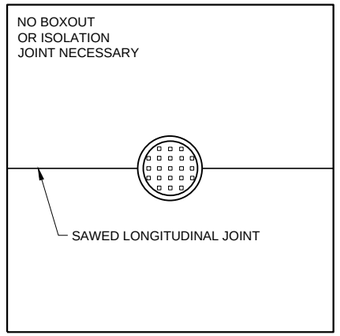


TIED LONGITUDINAL TO EXISTING

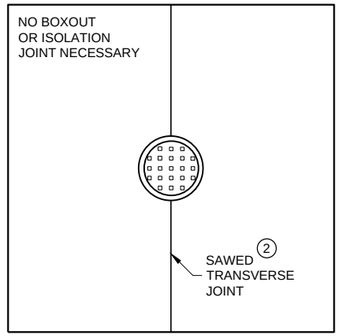
CONSTRUCTION JOINTS (4)

CONCRETE PAVEMENT
JOINT TYPES

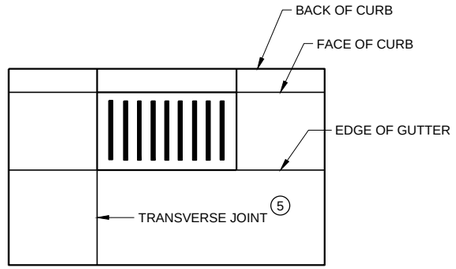
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



MANHOLE WITH LONGITUDINAL JOINT



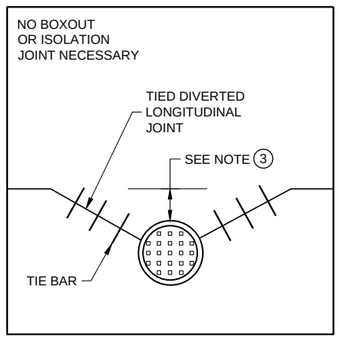
MANHOLE WITH TRANSVERSE JOINT



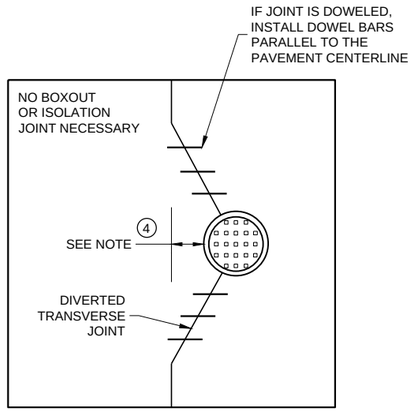
INLET WITH TRANSVERSE JOINT

GENERAL NOTES

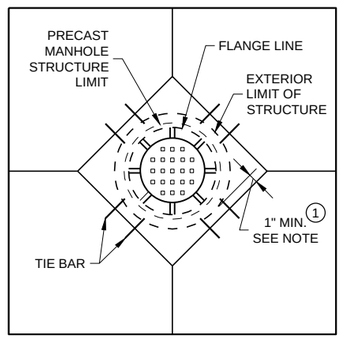
1. USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1 FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
2. ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
3. IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF 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

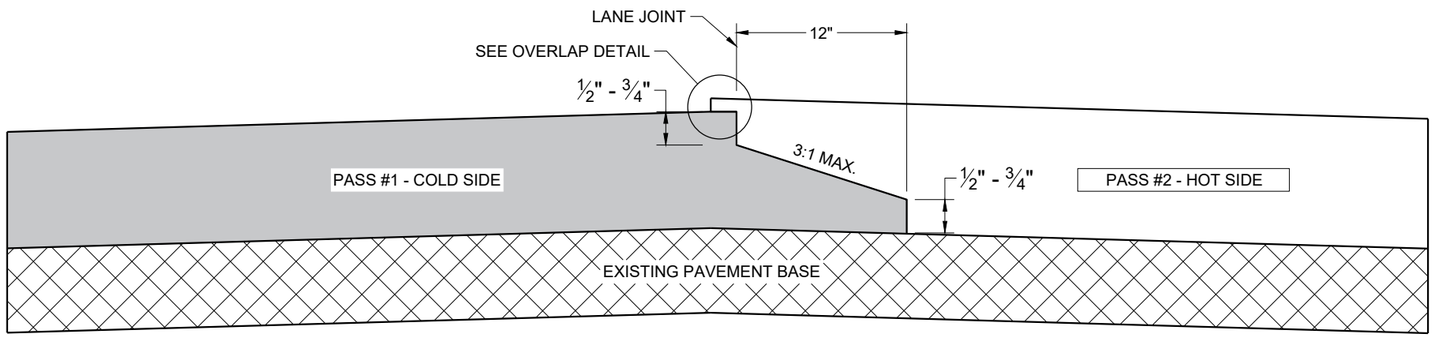
APPROVED
November 2018
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVISO

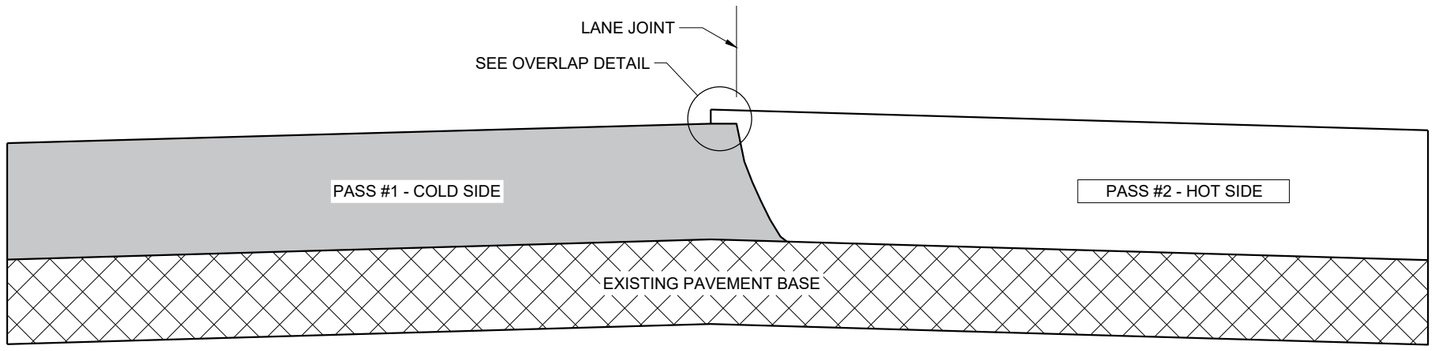
FHWA

6

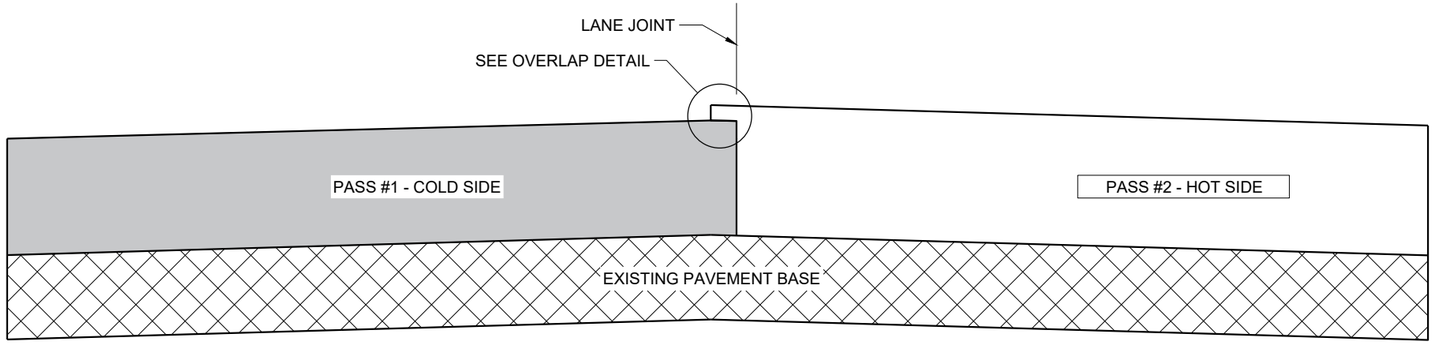
SDD 13C18 - 07d



TYPICAL PAVEMENT CROSS SECTION
OF NOTCHED WEDGE LONGITUDINAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL LONGITUDINAL JOINT



TYPICAL PAVEMENT CROSS SECTION
OF MILLED LONGITUDINAL JOINT

GENERAL NOTES

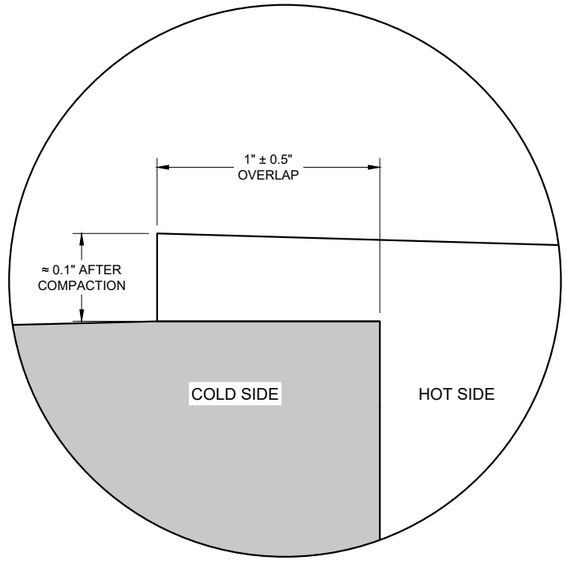
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

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.

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

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

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



OVERLAP DETAIL (TYPICAL)

HMA LONGITUDINAL JOINTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Steven Hefel
HMA PAVEMENT ENGIN

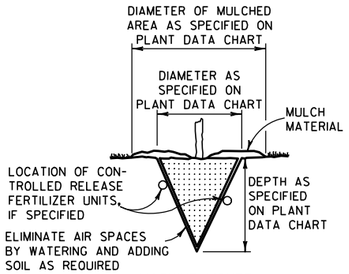
FHWA

6

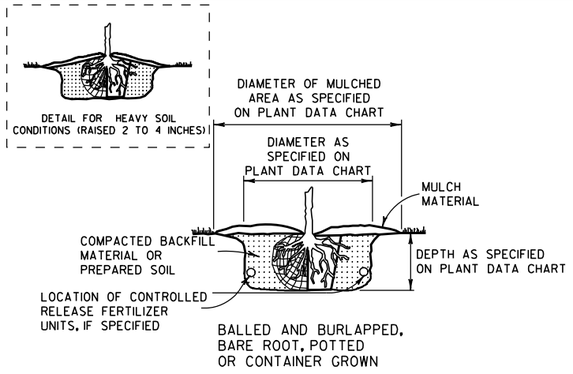
SDD 13C19 - 02

6

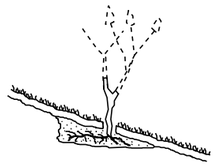
SDD 13C19 - 02



MACHINE MOVED

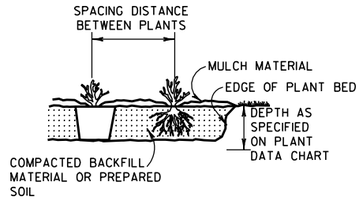


BALLED AND BURLAPPED, BARE ROOT, POTTED OR CONTAINER GROWN



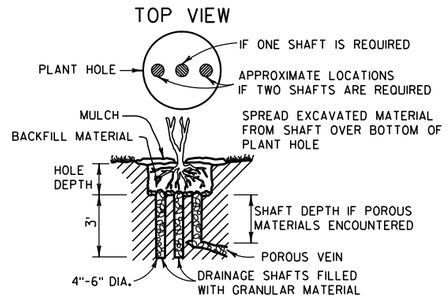
ACCOMMODATE ROOTS (SMOOTH AND STAGHORN SUMAC)

NOTE:
1) ENGINEER SHALL REQUIRE 3 SLITS IN POT TO SPEED DETERIORATION
2) METAL, PLASTIC OR OTHER NONDEGRADABLE POTS SHALL BE REMOVED PRIOR TO PLANTING



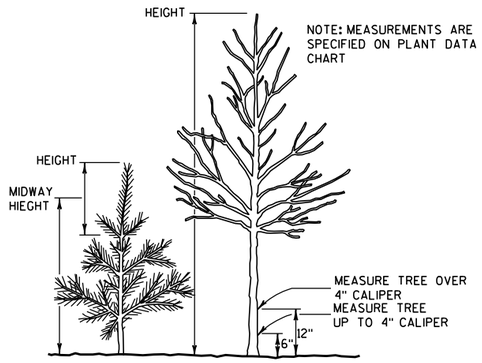
PREPARED BED (BARE ROOT AND POTTED)

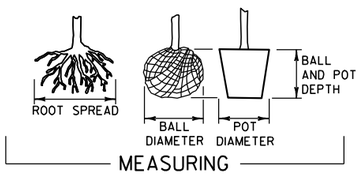
PLANTING



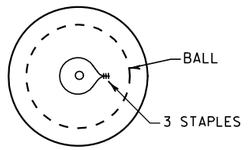
NOTE:
DRAINAGE SHAFT AS SPECIFIED ON PLANT DATA CHART

DRAINING

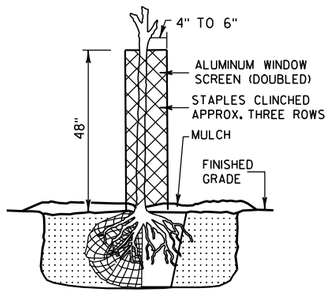




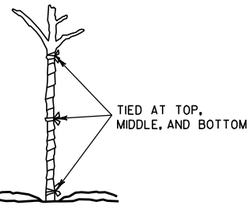
MEASURING



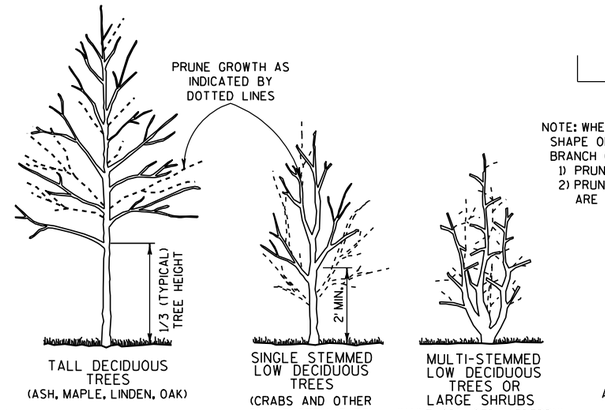
TOP VIEW



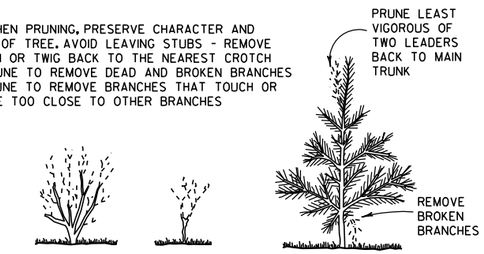
RODENT PROTECTION



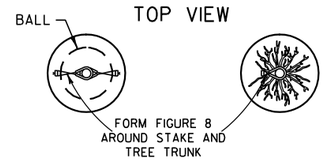
WRAPPING

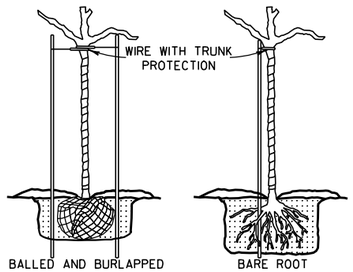


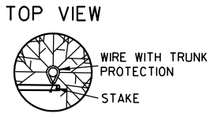
NOTE: WHEN PRUNING, PRESERVE CHARACTER AND SHAPE OF TREE. AVOID LEAVING STUBS - REMOVE BRANCH OR TWIG BACK TO THE NEAREST CROTCH
1) PRUNE TO REMOVE DEAD AND BROKEN BRANCHES
2) PRUNE TO REMOVE BRANCHES THAT TOUCH OR ARE TOO CLOSE TO OTHER BRANCHES

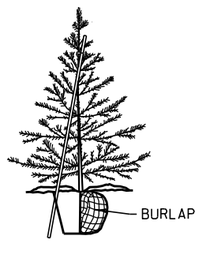


PRUNING



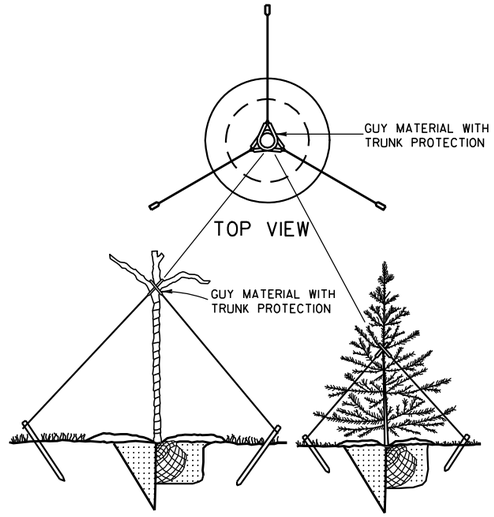




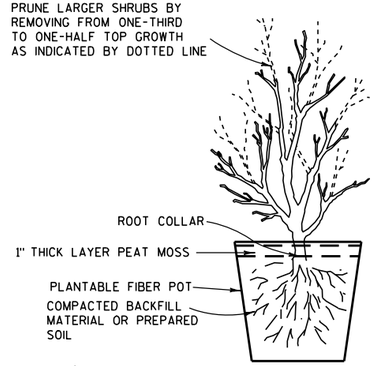


NOTE: BRACING STAKE
1) SHALL BE DRIVEN INTO THE GROUND AS CLOSE TO THE TREE AS POSSIBLE WITHOUT DAMAGING THE BRANCHES.
2) MAY BE DRIVEN AT SUCH AN ANGLE THAT IT DOES NOT PENETRATE THE BALL OR POT.
3) SHALL NOT PROTRUDE ABOVE THE TOP OF THE TREE; AND
4) SHALL HAVE A HOLE NEAR THE TOP TO HOLD THE WIRE IN PLACE.

BRACING



GUYING



POTTING

NOTES

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

BRACING, WRAPPING, GUYING, RODENT PROTECTION, FERTILIZER AND MULCH SHALL BE USED ONLY WHEN SPECIFIED ON THE PLANT DATA CHART (PART OF PLAN) OR SPECIAL PROVISIONS.

TREE PLANTING DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

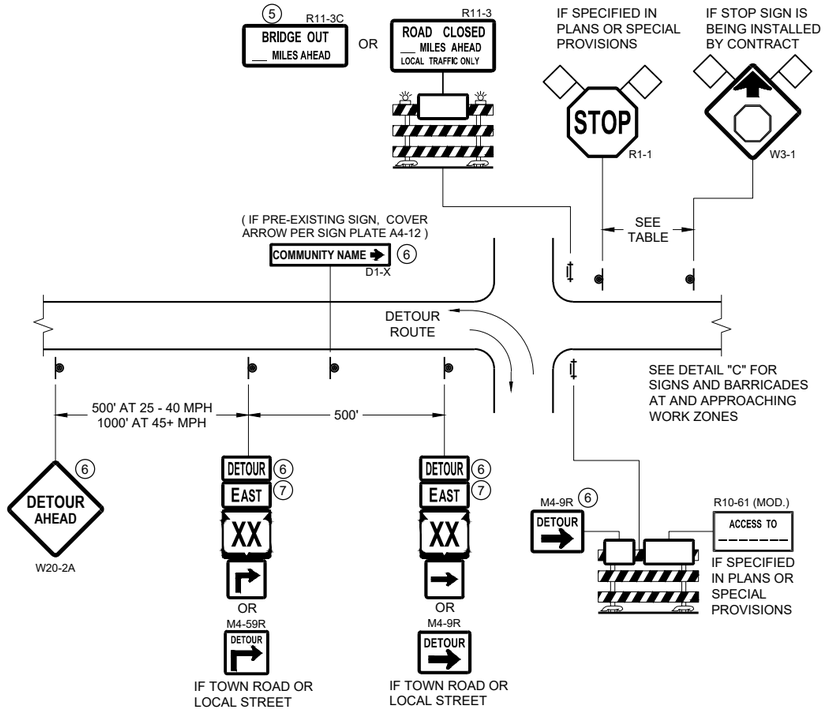
4/11/94
DATE

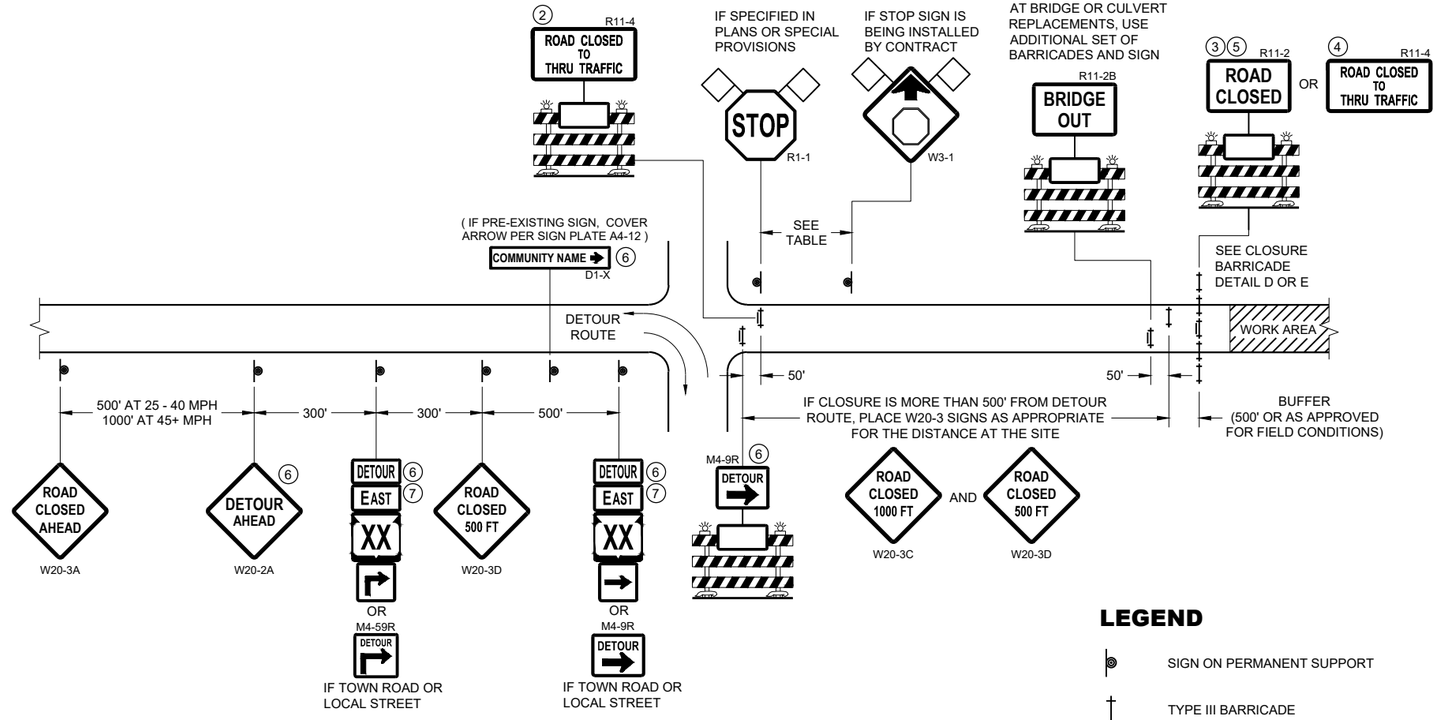
/S/ Rory L. Rhinesmith
CHIEF METHODS DEVELOPMENT ENGINEER

FHWA

6

S.D.D. 14 A 2-1



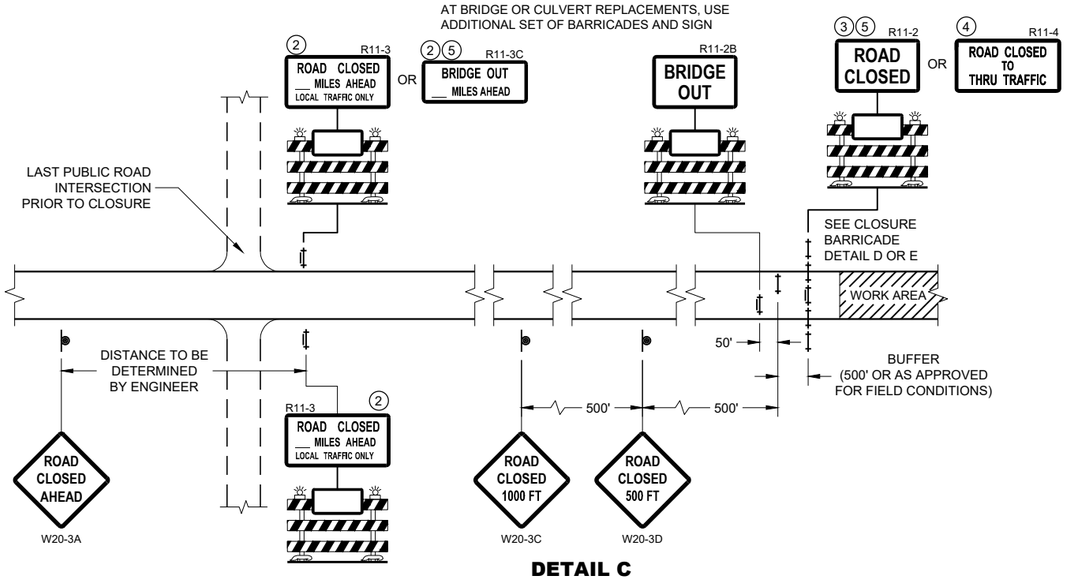


DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

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

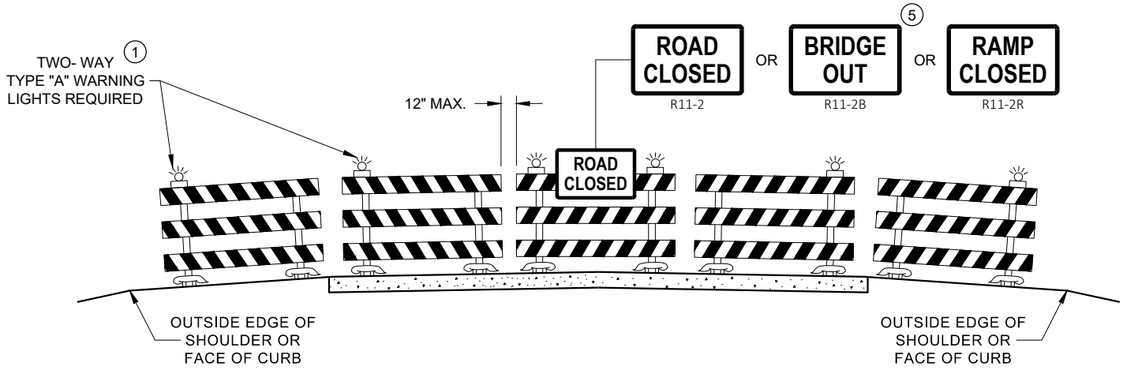
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

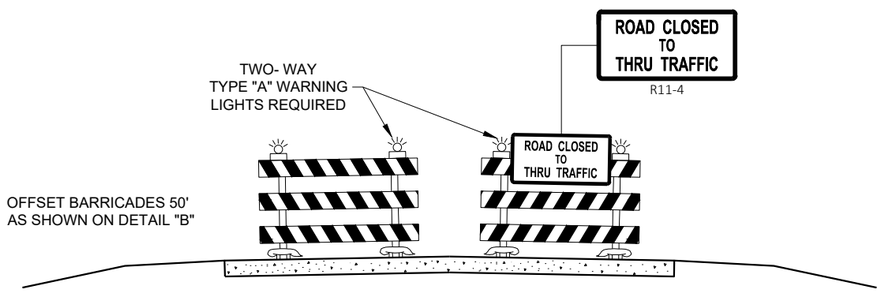
FHWA

6

SDD 15C02 - 08a



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

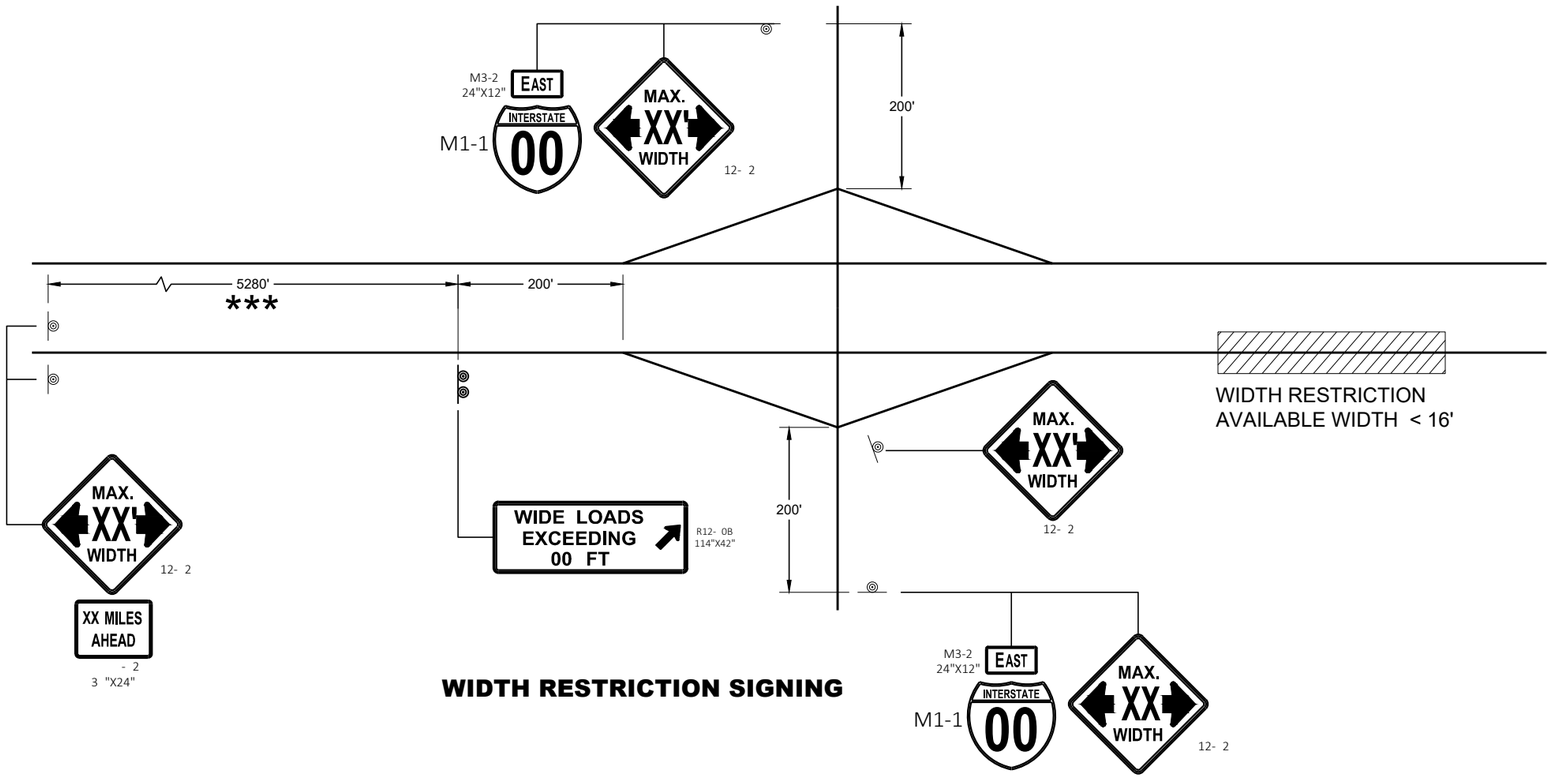
BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

6

SDD 15C02 - 08b



WIDTH RESTRICTION SIGNING

LEGEND

SIGN ON PERMANENT SUPPORT

GENERAL NOTES

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

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

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

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

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

WIDTH ON SIGN TO BE APPROXIMATELY ONE FOOT LESS THAN AVAILABLE WIDTH.

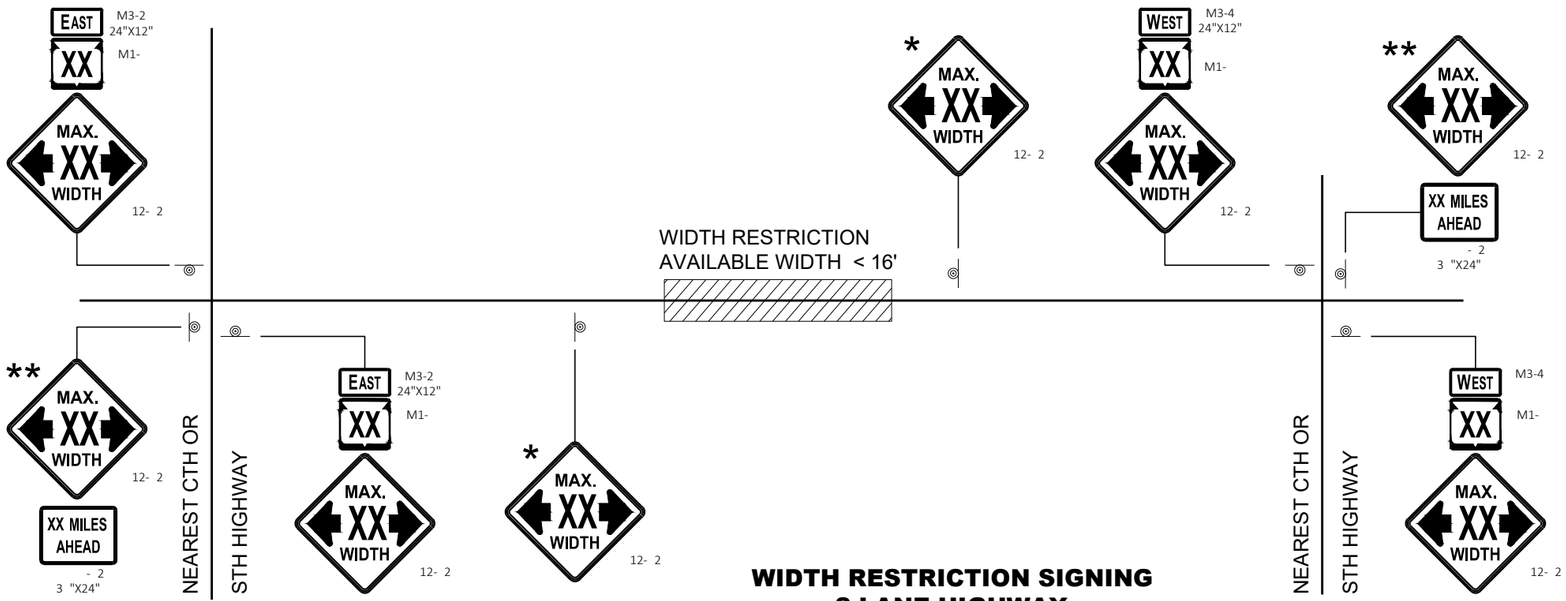
* PLACE 500 FEET BEFORE THE W20 - 1A AND 500 FEET BEFORE ADDITIONAL SIGNS FOR ROADWAYS WITH A PRE - CONSTRUCTION SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350 FOOT TYPICAL SPACING. FOR 25-30 MPH, USE 200 FOOT TYPICAL SPACING.

** SIGN SHALL BE VISIBLE FROM ROADWAY.

*** ADDITIONAL SIGNS NEEDED IF THERE IS AN ON RAMP BETWEEN SIGNS.



WIDTH ON SIGN TO BE APPROX. 1 - FOOT LESS THAN AVAILABLE WIDTH



WIDTH RESTRICTION SIGNING
2 LANE HIGHWAY

ADVANCED WIDTH RESTRICTION SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

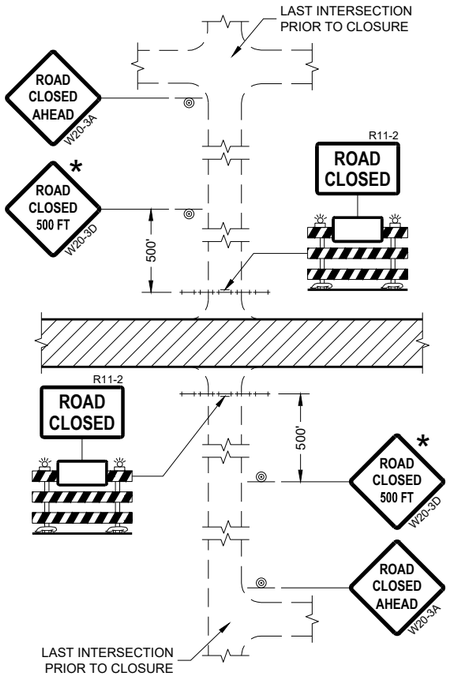
APPROVED
February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE 545

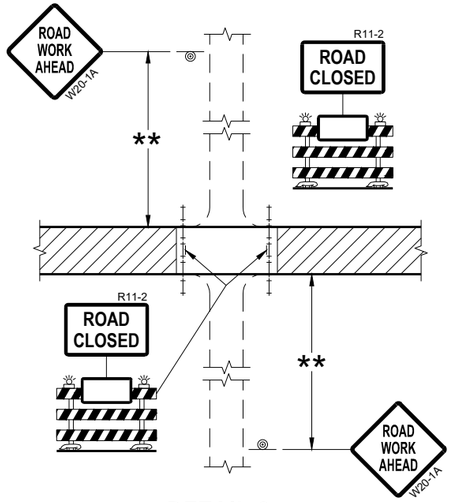
FHWA

6

SDD 15C02 - 08f



DETAIL 1
(NO ACCESS TO PROJECT)



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

GENERAL NOTES

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

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

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

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

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

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

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

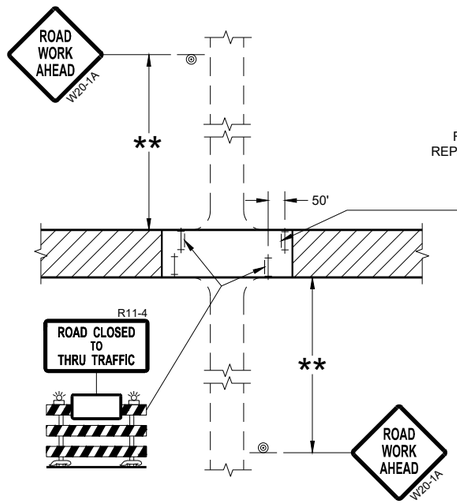
TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

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

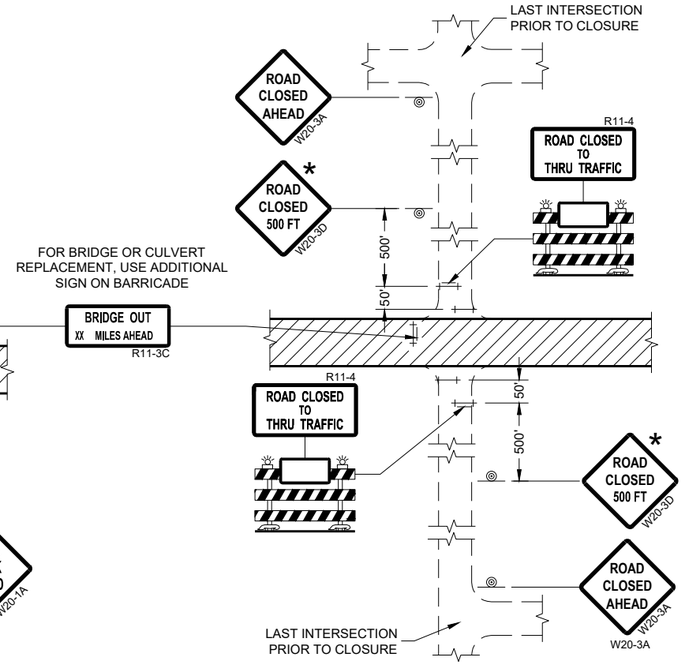
ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

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

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



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



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

LEGEND

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

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

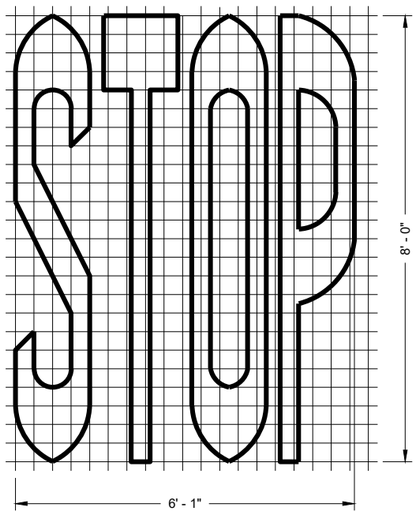
APPROVED
July 2018
DATE

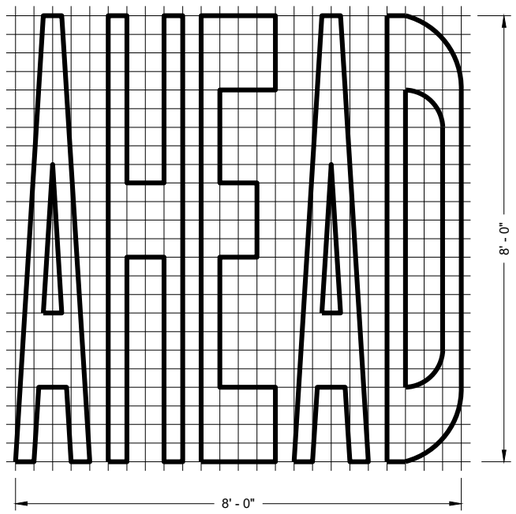
/S/ Andrew Heidtke
WORK ZONE ENGINEE

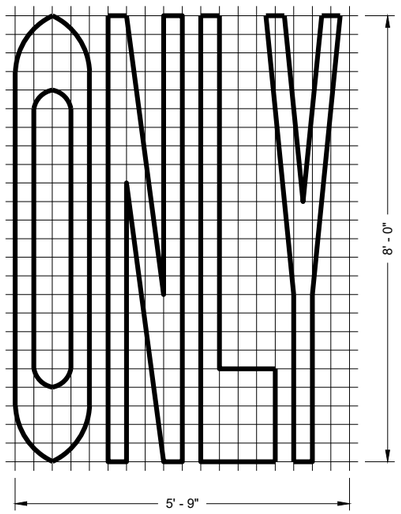
FHWA

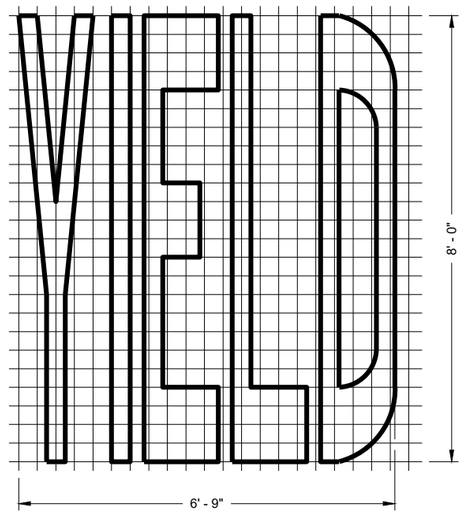
6

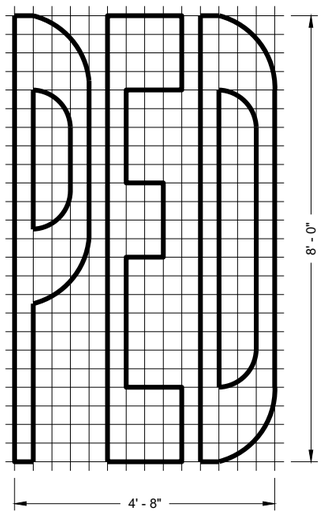
SDD 15C03 - 05

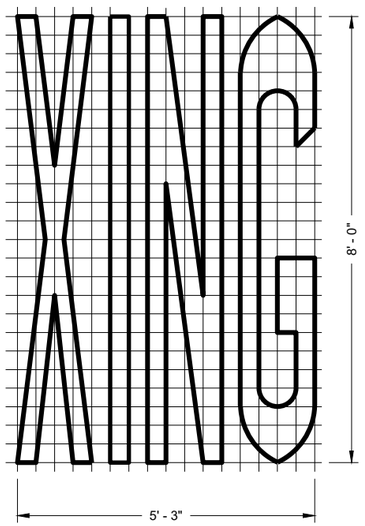


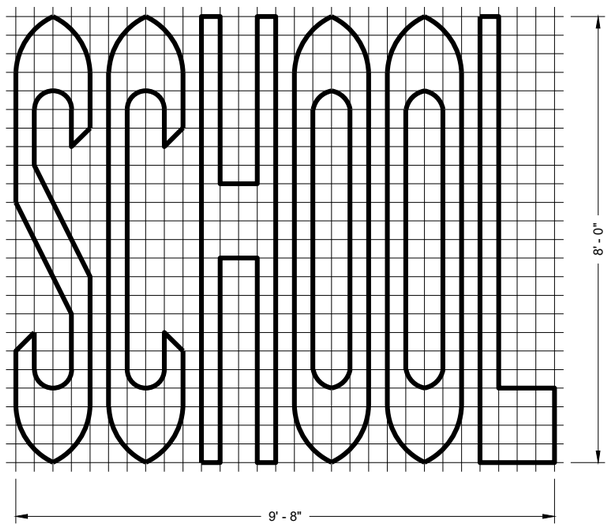




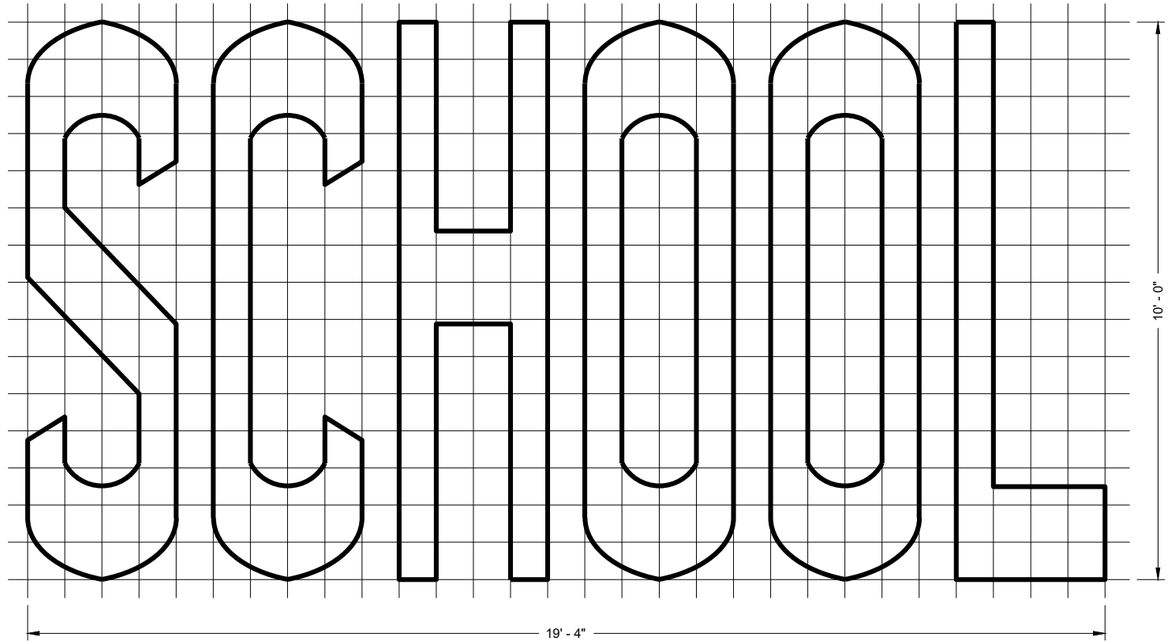








SINGLE LANE



TWO - LANE

GENERAL NOTES

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

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

FHWA

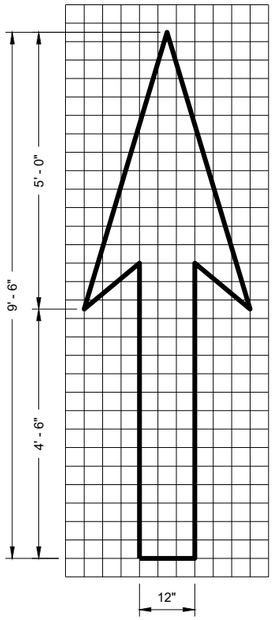
6

SDD 15C07 - 15b

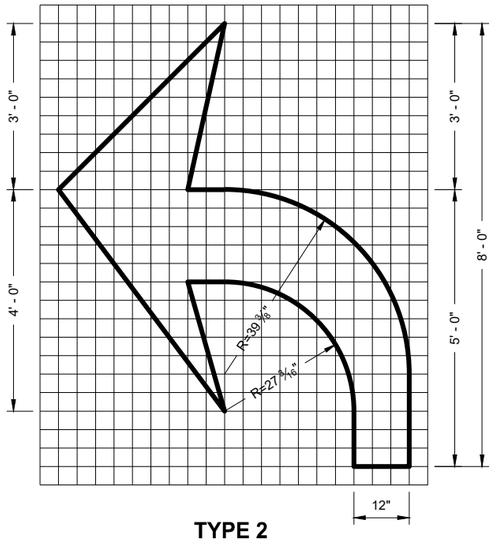
SDD 15C07 - 15b

GENERAL NOTES

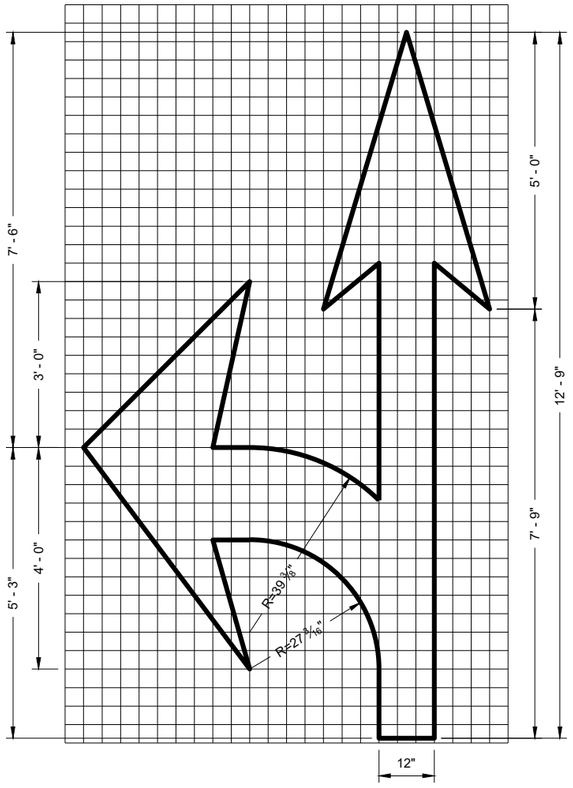
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



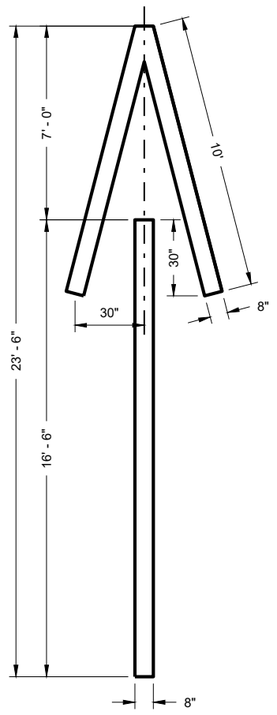
TYPE 1



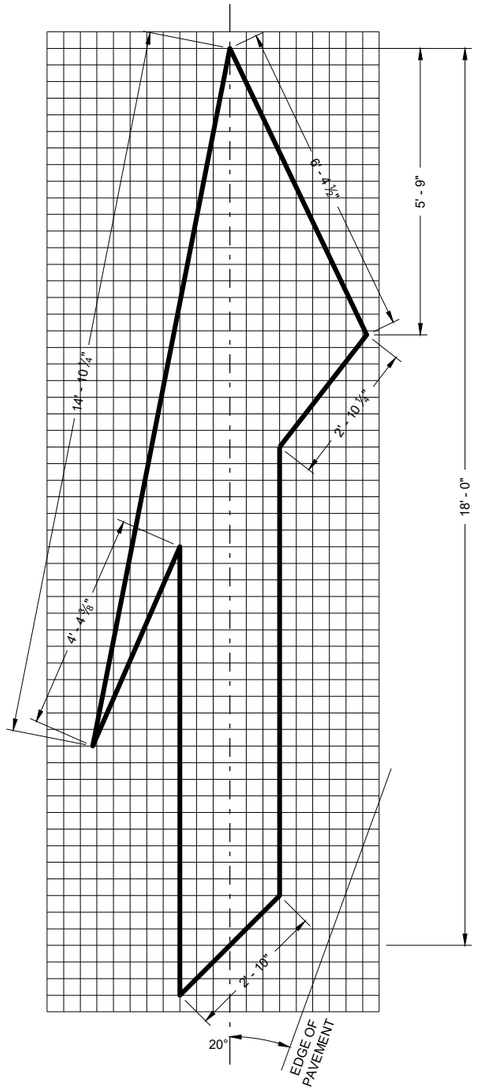
TYPE 2



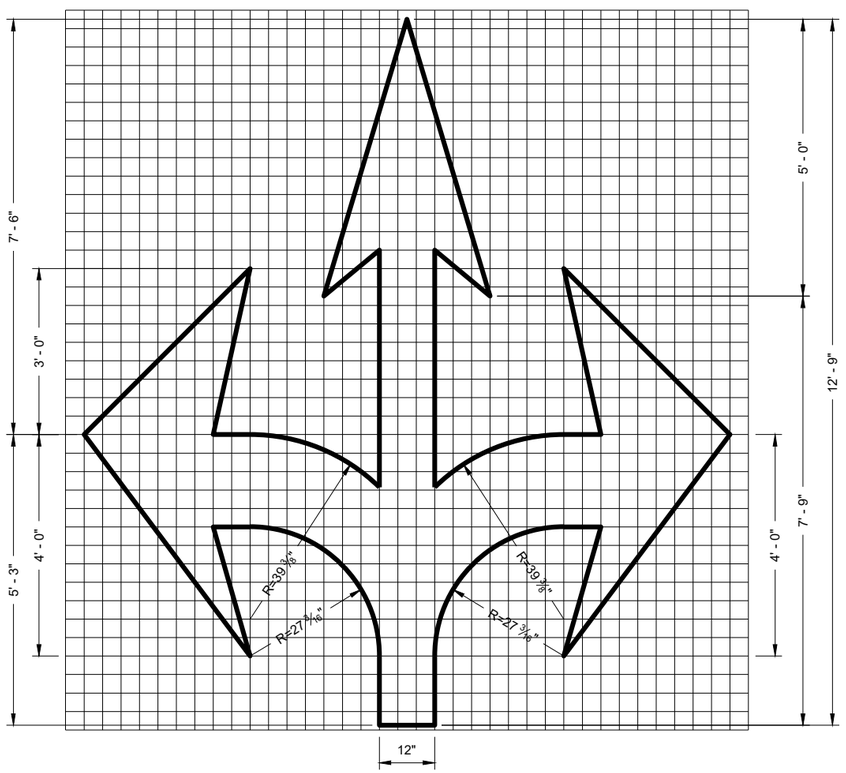
TYPE 3



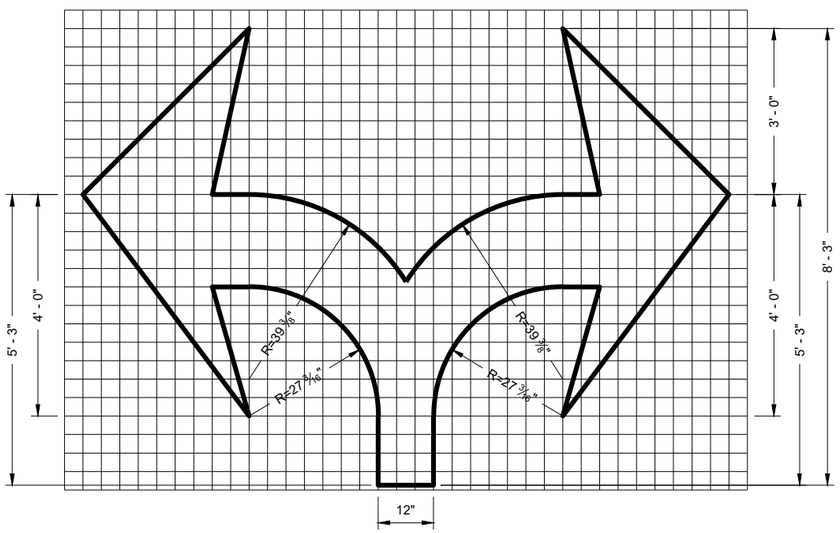
TYPE 4



TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MAF ENGINEER

FHWA

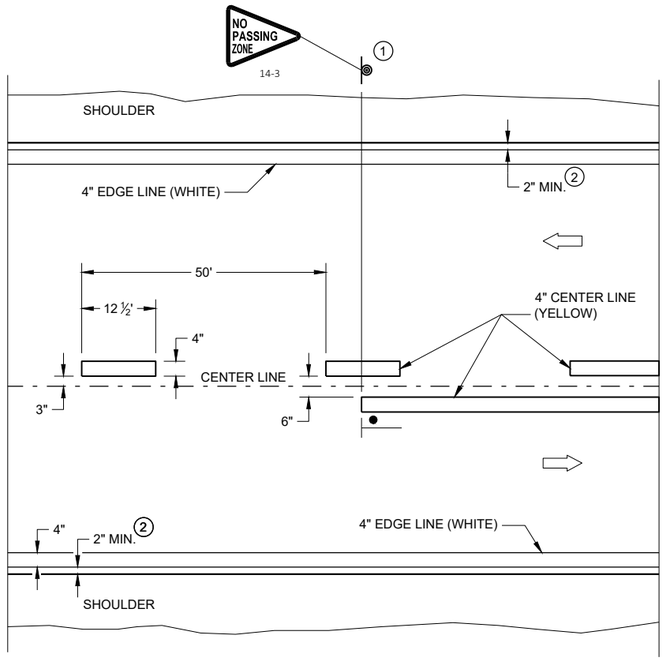
548

6

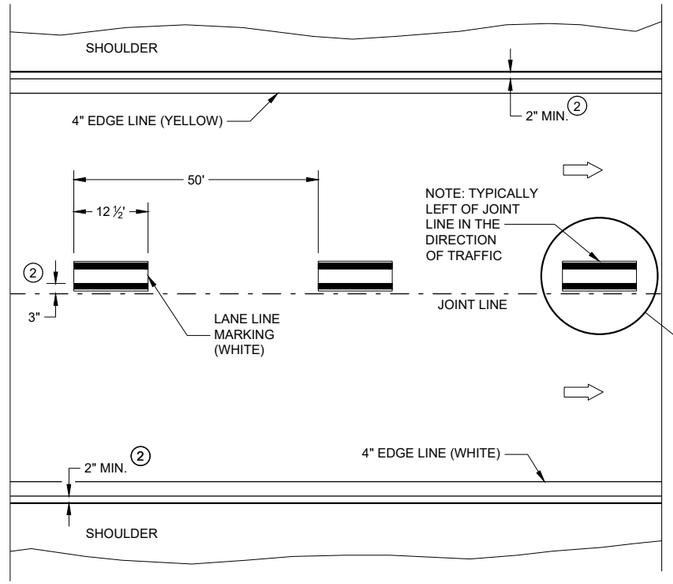
SDD 15C07 - 15c

6

SDD 15C07 - 15c

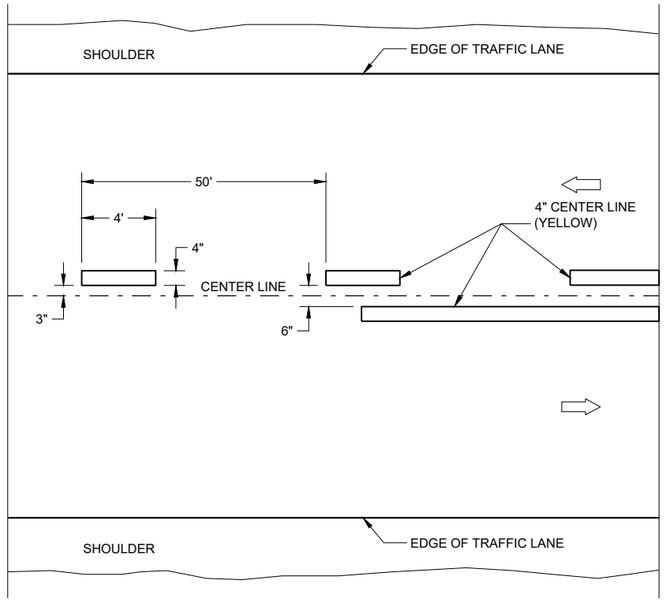


TWO WAY TRAFFIC

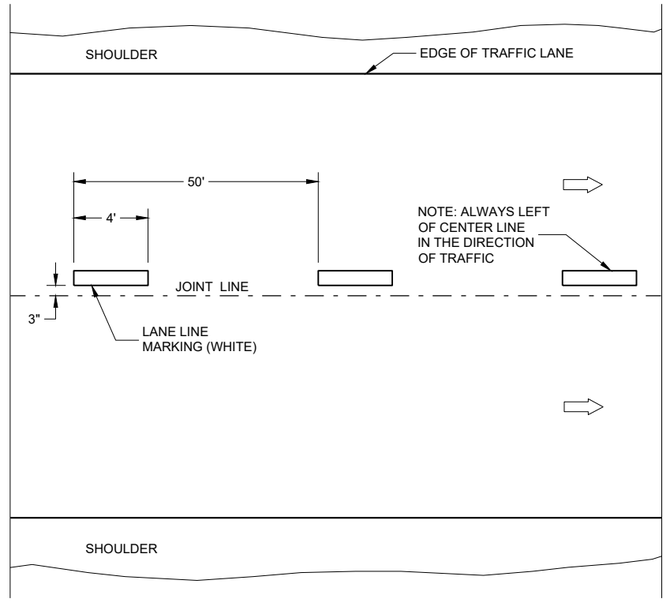


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

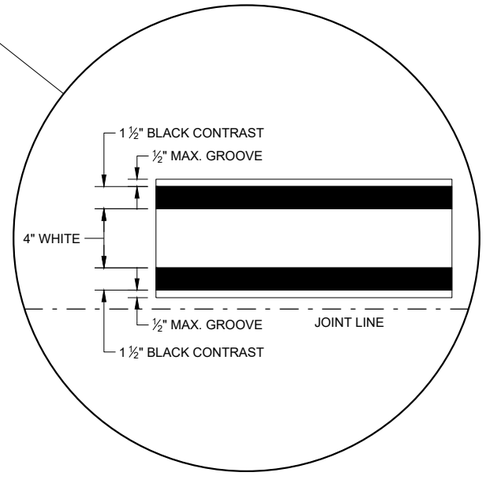
GENERAL NOTES

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

1. LOCATE THE NO PASSING ZONE W14-3 SIGN WITH 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



LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE
/S/ Matthew Rauch
STATEWIDE SIGNING AND M ENGINEER

FHWA

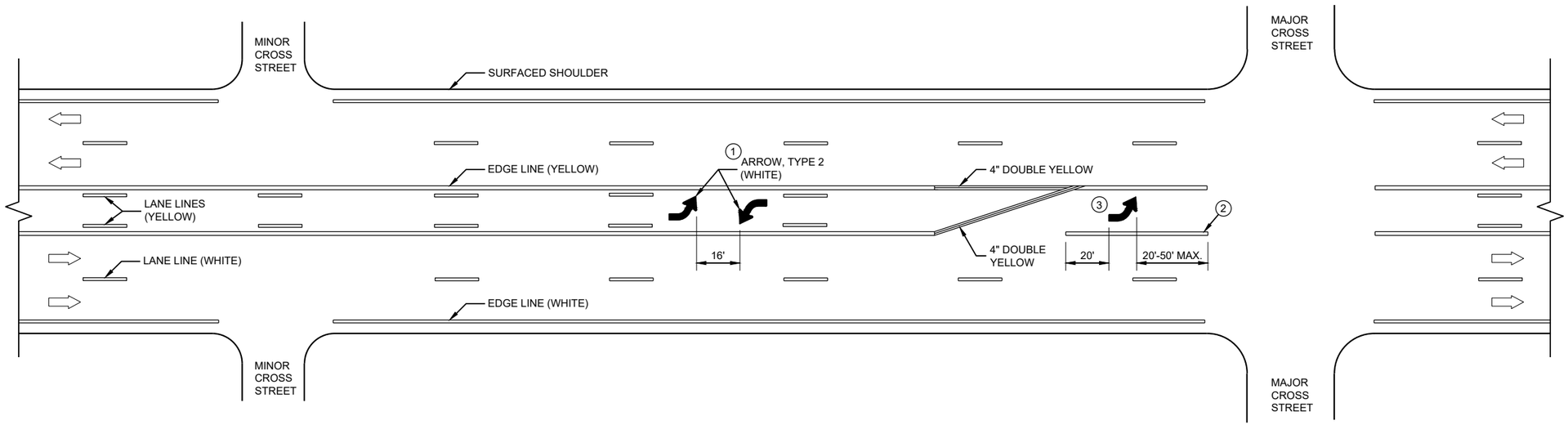
SDD 15C08 - 20a

SDD 15C08 - 20a

GENERAL NOTES

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

DIRECTION OF TRAFFIC



TWO WAY LEFT TURN LANE

6

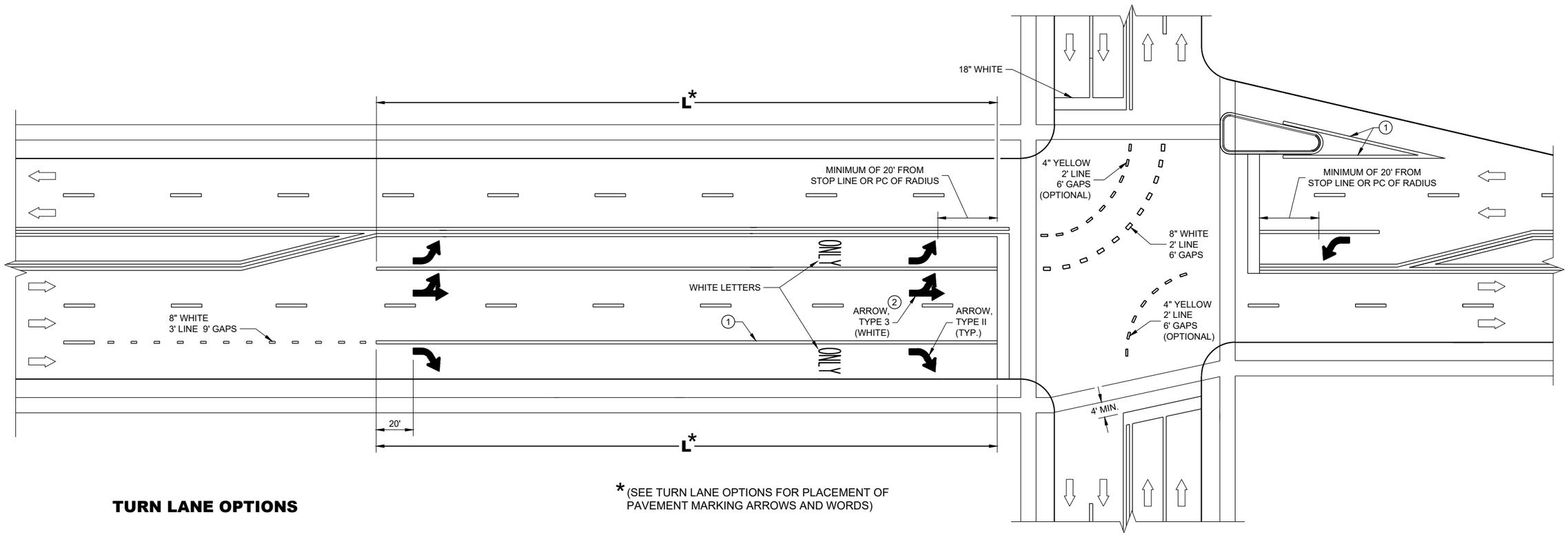
SDD 15C08 - 20b

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

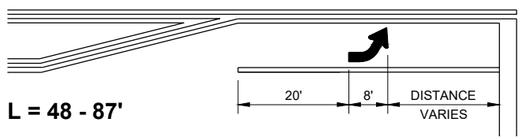
SDD 15C08 - 20b



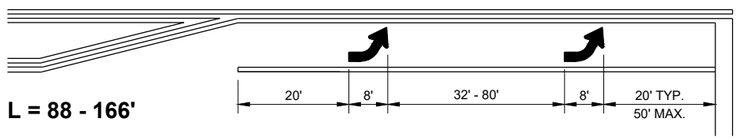
* (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

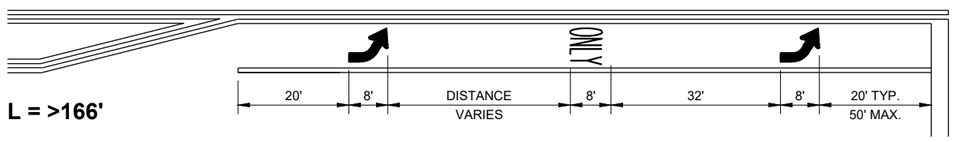
LENGTH OF TURN BAY (**L**) OF 0 - 47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48 - 87'



L = 88 - 166'



L = >166'

GENERAL NOTES

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

DIRECTION OF TRAFFIC

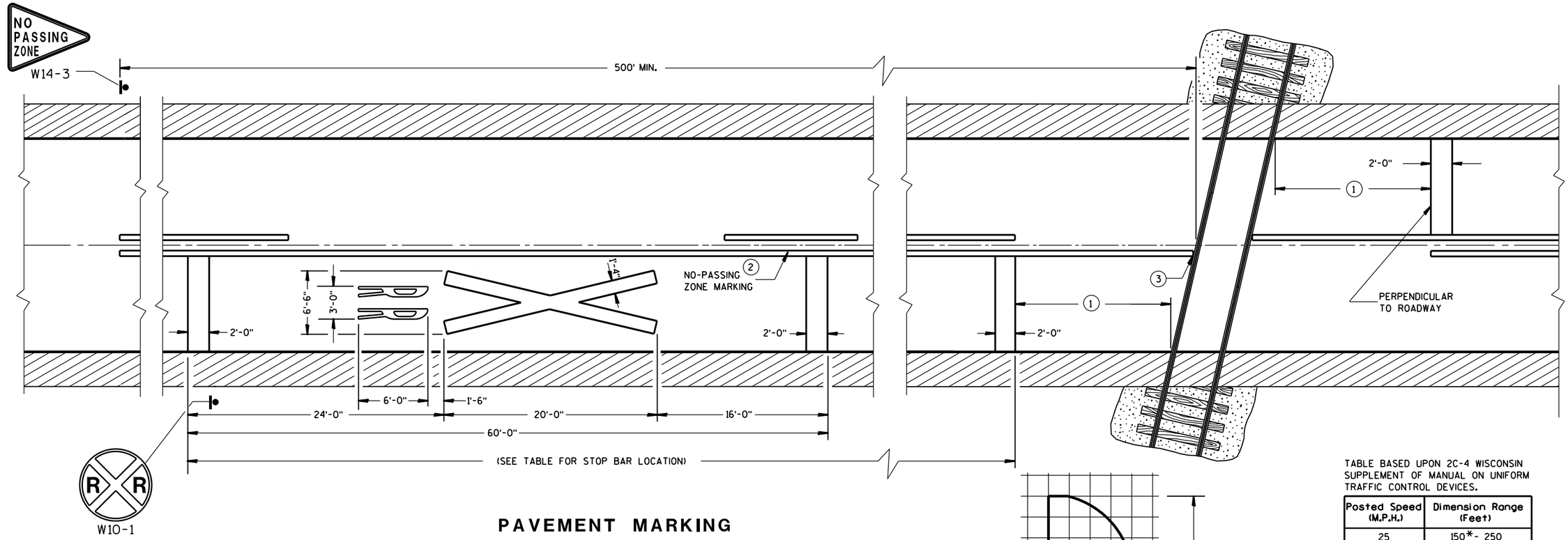
L = LENGTH OF TURN BAY

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15C08 - 20c



PAVEMENT MARKING

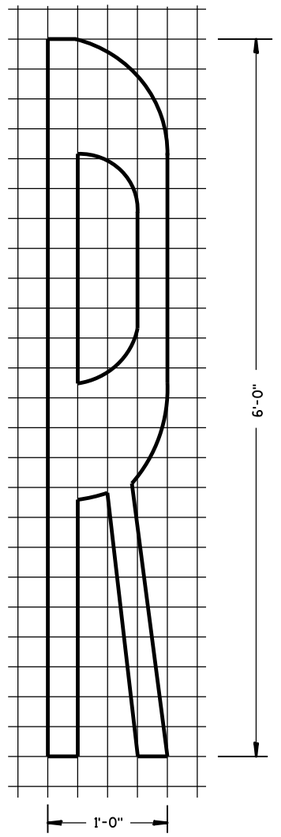


TABLE BASED UPON 2C-4 WISCONSIN SUPPLEMENT OF MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

Posted Speed (M.P.H.)	Dimension Range (Feet)
25	150*- 250
30	200*- 300
35	250*- 450
40	300*- 500
45	400*- 650
50	550*- 800
55	750*- 1000
60	1000*- 1250
65	1000*- 1250

* THE MINIMUM DISTANCES IN THE TABLE ARE DESIRABLE AND SHOULD BE USED. THE DISTANCES MAY BE INCREASED UP TO THE MAXIMUM TO ALLOW FOR FIELD CONDITIONS SUCH AS THE CLOSE PROXIMITY OF DRIVEWAYS, BRIDGES, SIDEROADS OR OTHER FEATURES THAT WOULD PROHIBIT THE MINIMUM DISTANCES FROM BEING USED.

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.

ON MULTI-LANE ROADS THE TRANSVERSE BANDS SHOULD EXTEND ACROSS ALL APPROACH LANES, AND INDIVIDUAL R X R SYMBOLS SHOULD BE USED IN EACH APPROACH LANE.

CENTER OR LANE LINES AND NO-PASSING ZONE MARKINGS SHOWN ON THIS DRAWING ARE REQUIRED AND PAID FOR UNDER OTHER ITEMS IN THE CONTRACT.

RETRACE EXISTING SYMBOL WHERE EXISTING SYMBOLS ARE PLACED.

(1) MINIMUM 8' FROM ANY RAILROAD WARNING DEVICES (SIGNALS, GATES, ETC.) OR 25' FROM THE NEAREST RAIL, WHICHEVER DISTANCE IS GREATER.

(2) 500' MINIMUM. MARKING LIMITS MAY BE EXTENDED AS DIRECTED BY THE ENGINEER TO MEET ADJACENT NO-PASSING ZONE MARKINGS.

(3) FOR MULTIPLE TRACK CROSSINGS, THE BARRIER LINE SHALL EXTEND TO THE NEAR RAIL OF THE FURTHEST TRACK IN THE DIRECTION OF HIGHWAY TRAVEL.

SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD-HIGHWAY GRADE CROSSINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept., 2017 — DATE

/S/ Matthew R. Rauch — STATE SIGNING AND MAI[illegible]552 — GINEER

FHWA

6

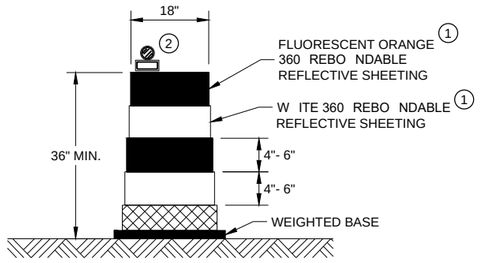
S.D.D. 15 C 9-11a

6

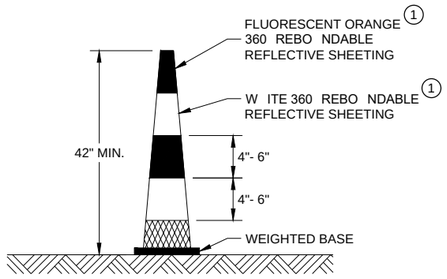
S.D.D. 15 C 9-11a

GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.

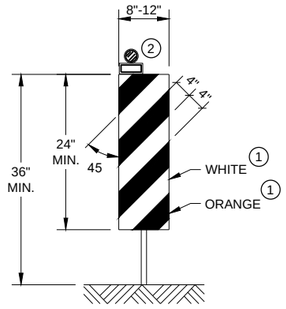


DRUM



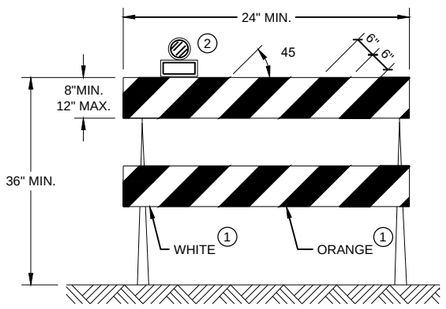
42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS



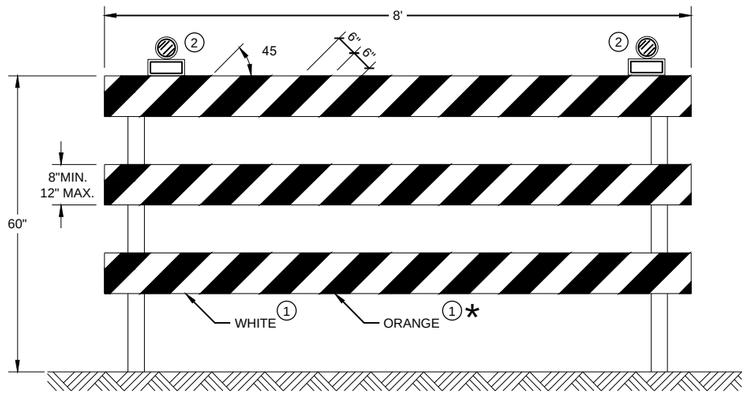
VERTICAL PANEL

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



TYPE II BARRICADE

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



TYPE III BARRICADE

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

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

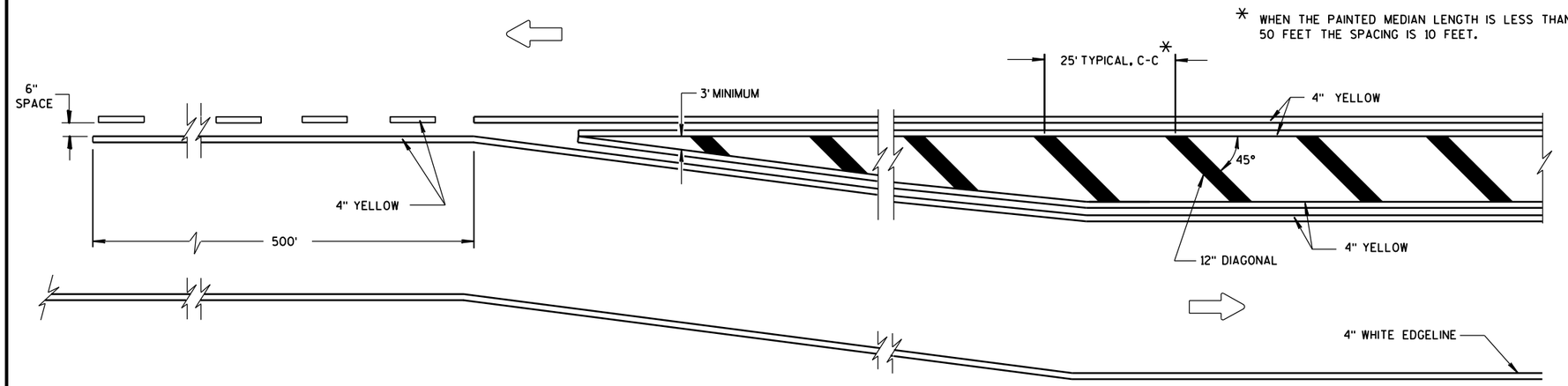
FHWA

6

SDD 15C11 - 07b

6

SDD 15C11 - 07b

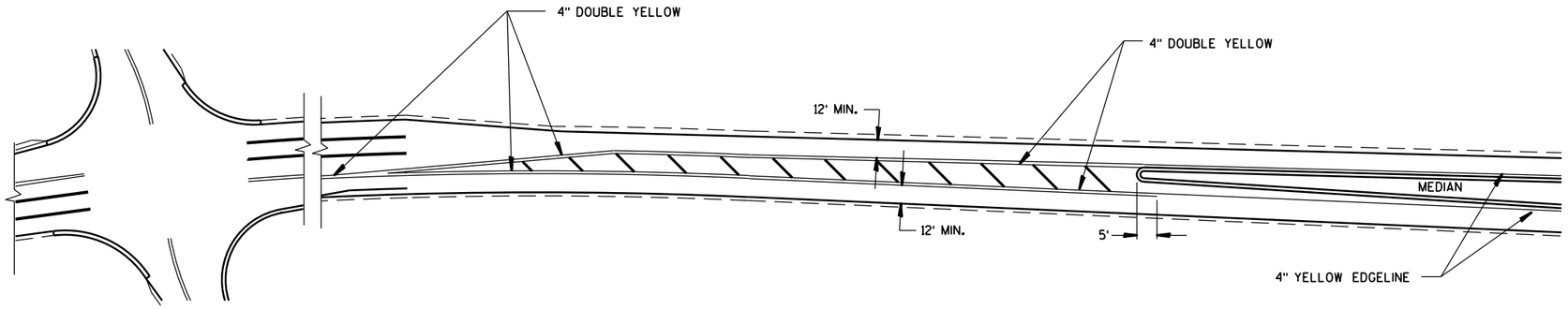


MEDIAN ISLAND DETAIL

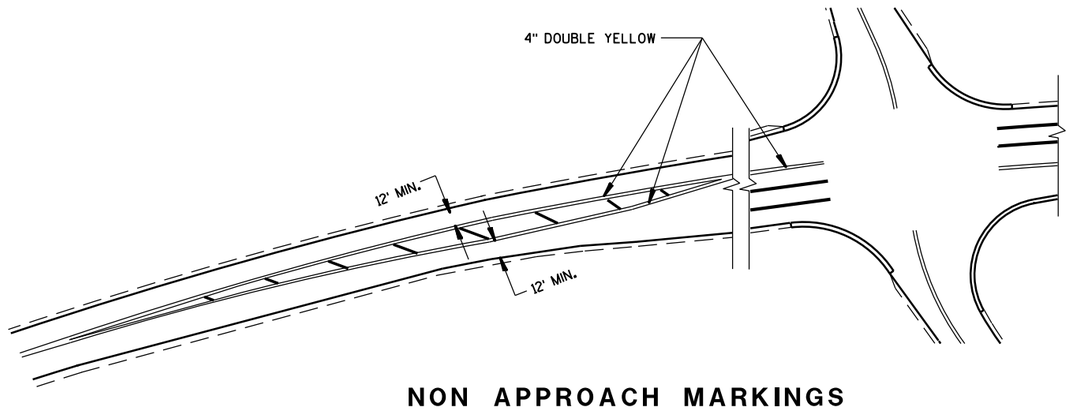
GENERAL NOTE

DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT WIDEST POINT.

DIRECTION OF TRAVEL



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON APPROACH MARKINGS

MEDIAN ISLAND MARKING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2017 DATE FHWA	/S/ Matthew Rauch STATE SIGNING AND MARK 554 EER

6

S.D.D. 15 C 18-4

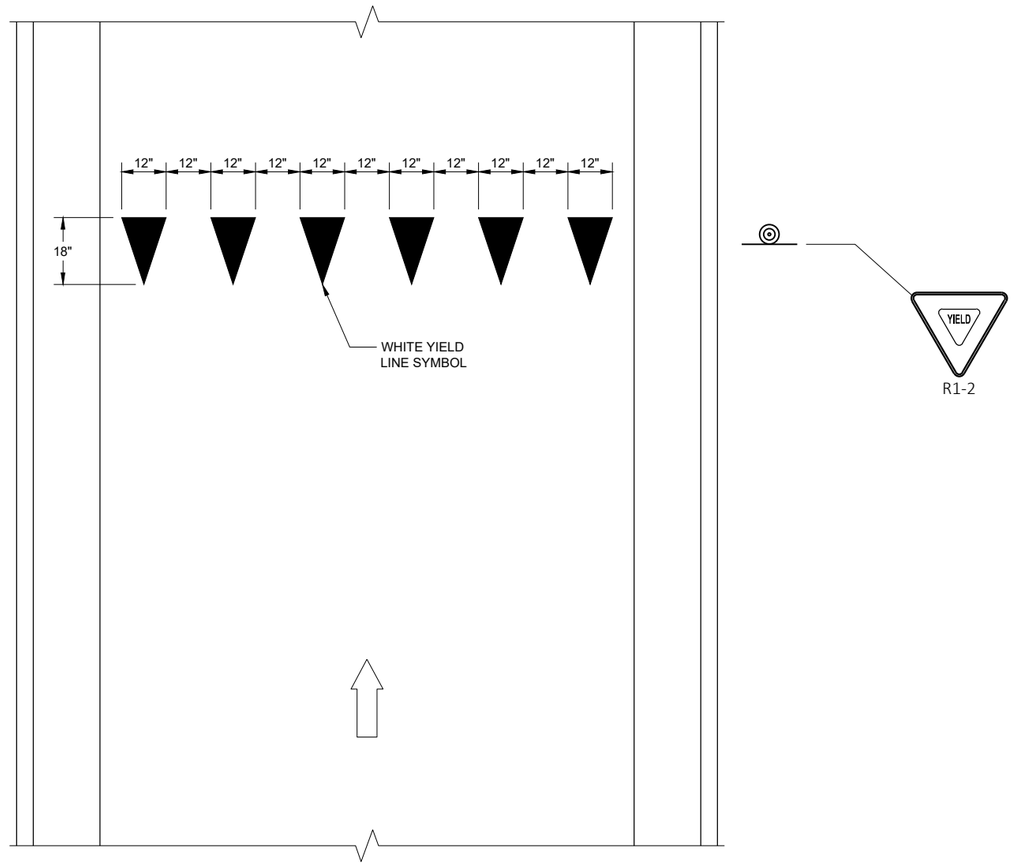
6

S.D.D. 15 C 18-4

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

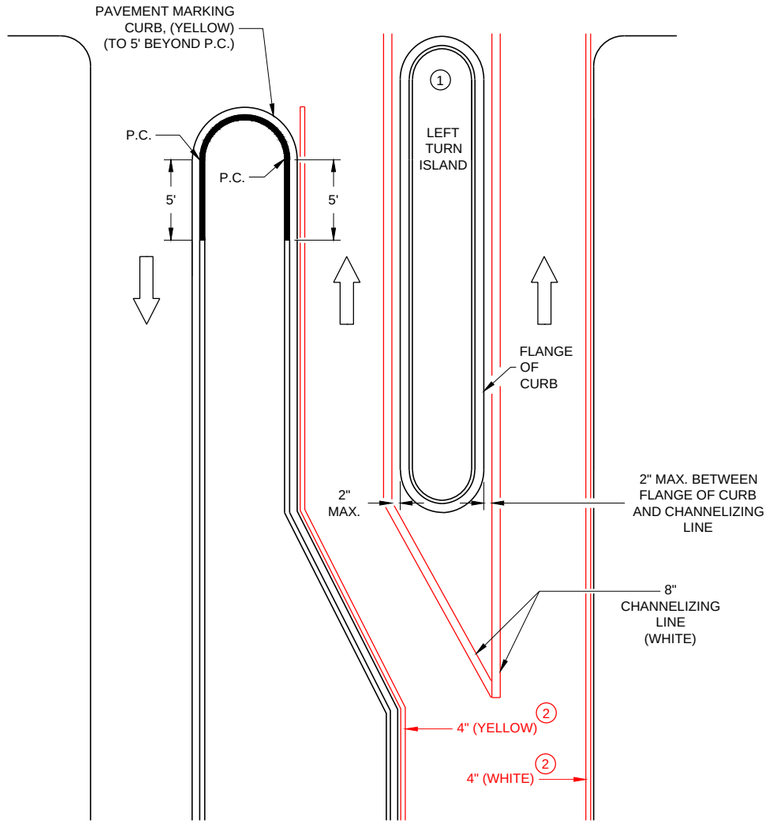
/S/ Matthew R. Rauch
STATE SIGNING AND MAR ENGINEER

555

FHWA

6

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



LEFT TURN & MEDIAN ISLAND

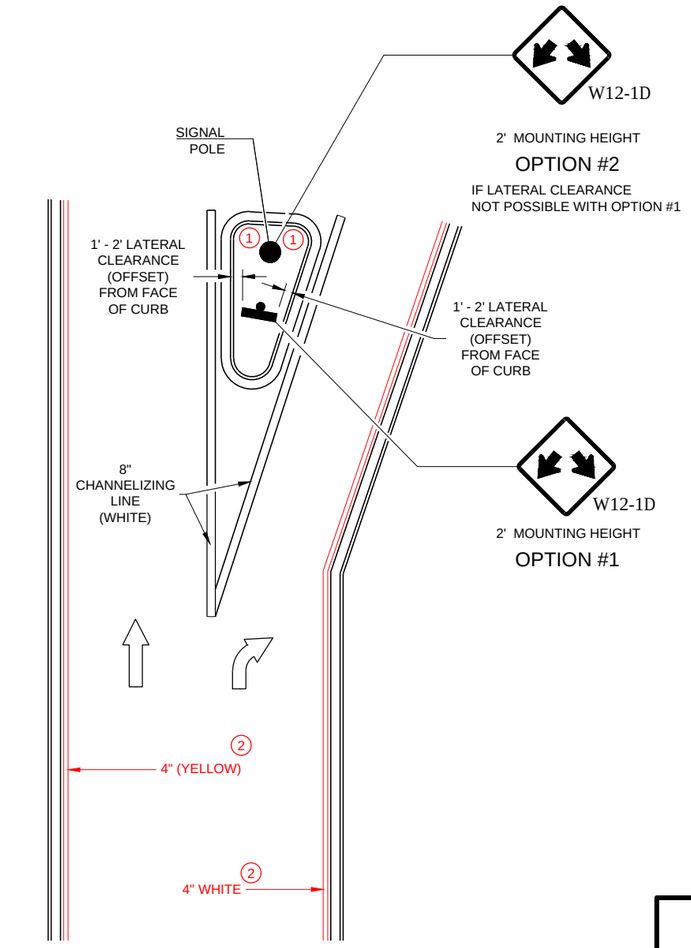
GENERAL NOTES

APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.

SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.

1. MARK CURB NOSES YELLOW.
2. MARK ACCORDING TO TABLE.

DIRECTION OF TRAVEL



RIGHT TURN ISLAND

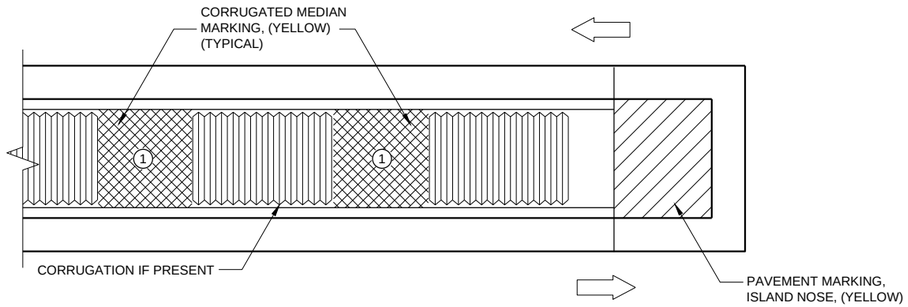
DOUBLE ARROW
WARNING SIGN PLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

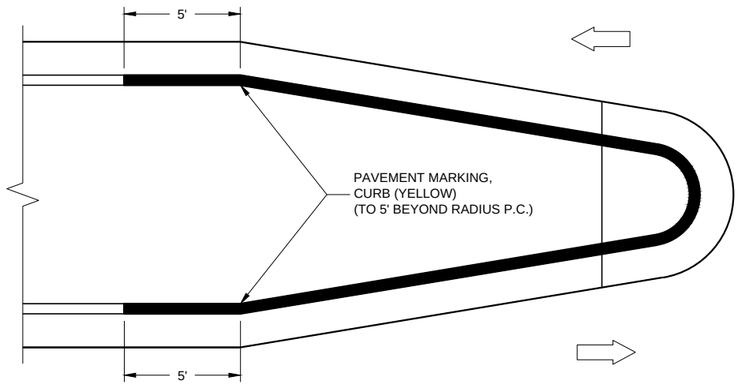
APPROVED
7/2018
DATE
/S/ Matthew R. Rauch
STATE SIGNING AND MAF ENGINEER

FHWA

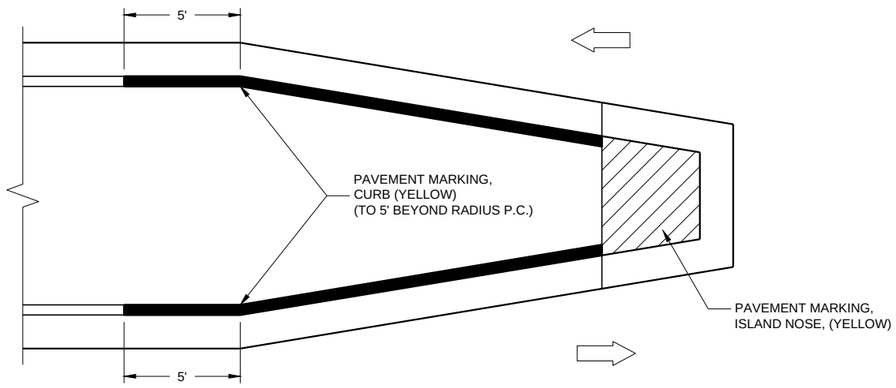
6
SDD 15C27 - 03a



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.

ISLAND NOSE MARKING

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL

PAVEMENT MARKINGS
(ISLANDS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MAF
ENGINEER

FHWA

6

SDD 15C27 - 03b

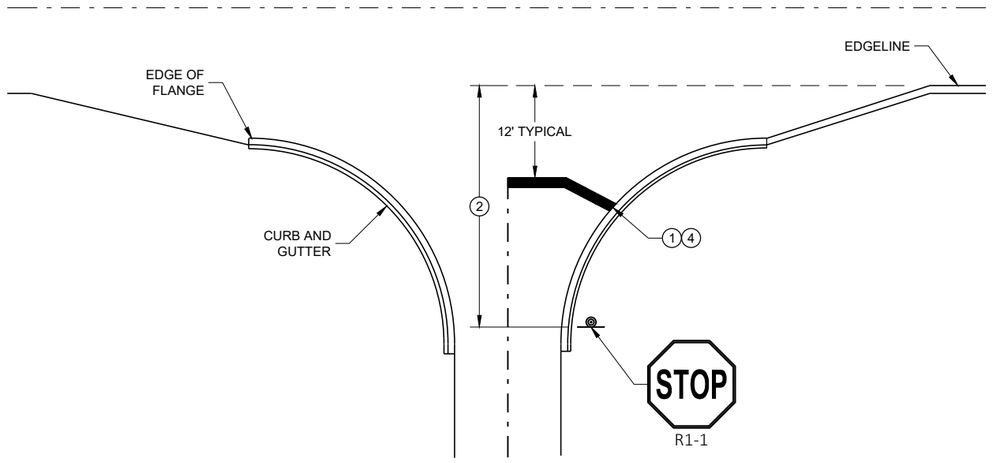
6

SDD 15C27 - 03b

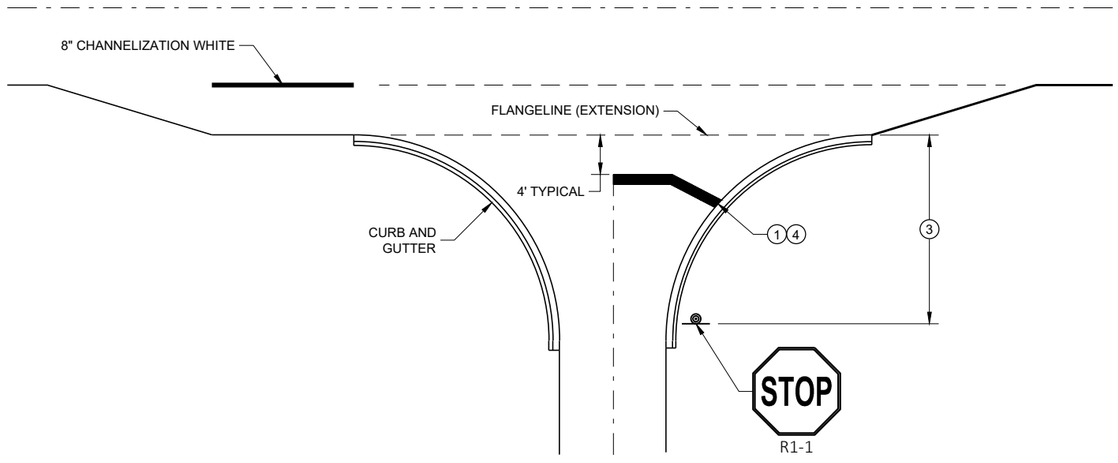
GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

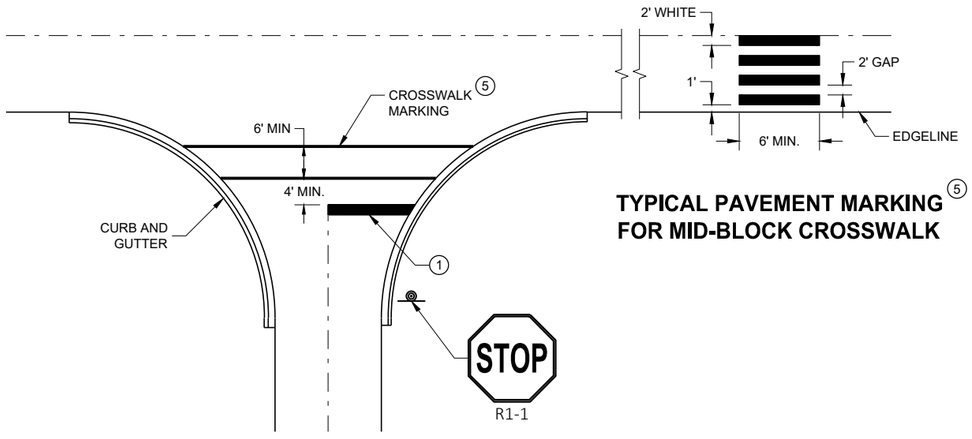
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION.
4. MOVE CLOSER TO THE EDGE OF TRAVEL LINE AS NEEDED FOR VISIBILITY AND SIGHT LINES (NO CLOSER THAN 4 FEET).
5. LADDER BAR CROSSWALKS SHOULD ONLY BE USED FOR MID BLOCK CROSSINGS. USE 2 - 6" TRANSVERSE LINES INSTEAD.



TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

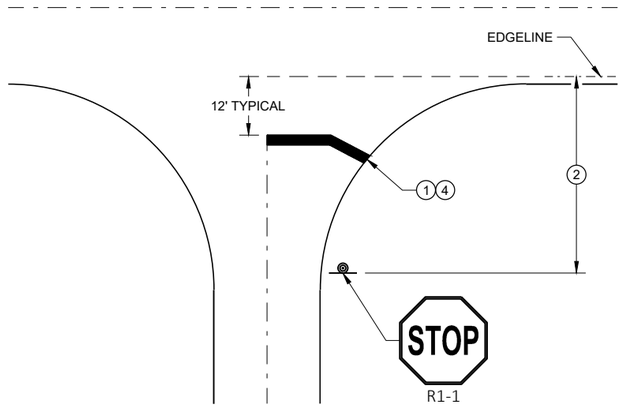


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL PAVEMENT MARKING FOR MID-BLOCK CROSSWALK 5

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



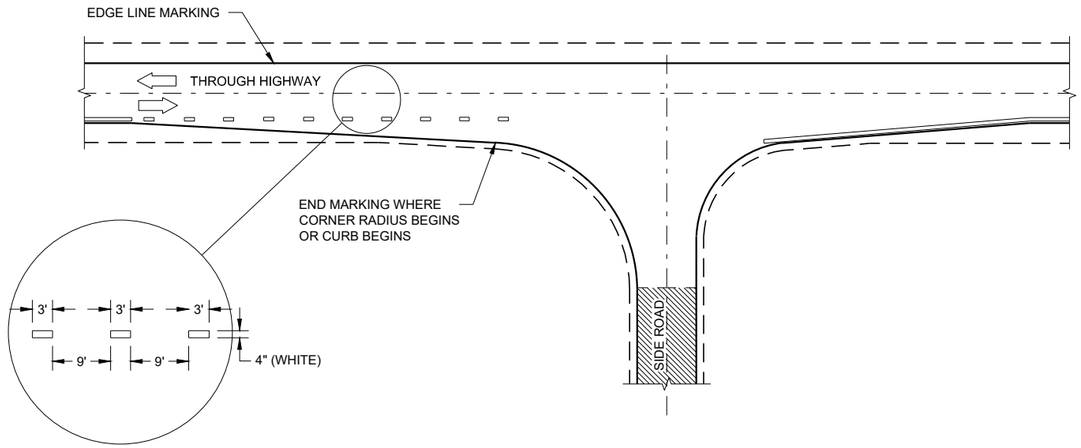
TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

STOP LINE AND CROSSWALK PAVEMENT MARKING

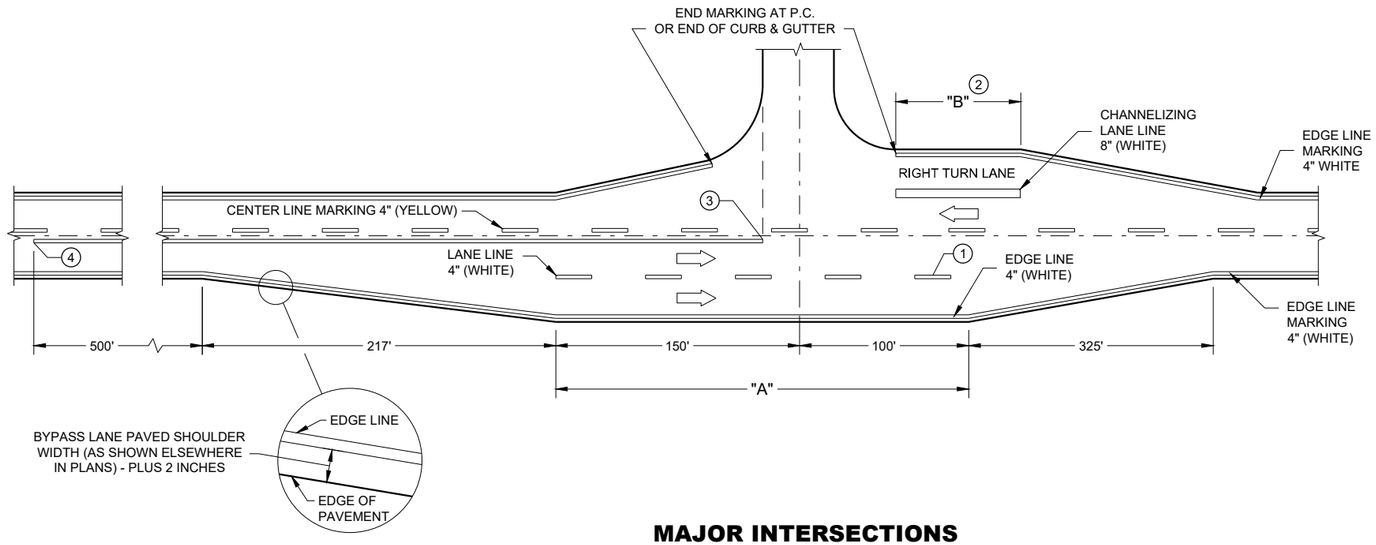
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MARKING ENGINEER
FHWA

6
SDD 15C33 - 04



MINOR INTERSECTION



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

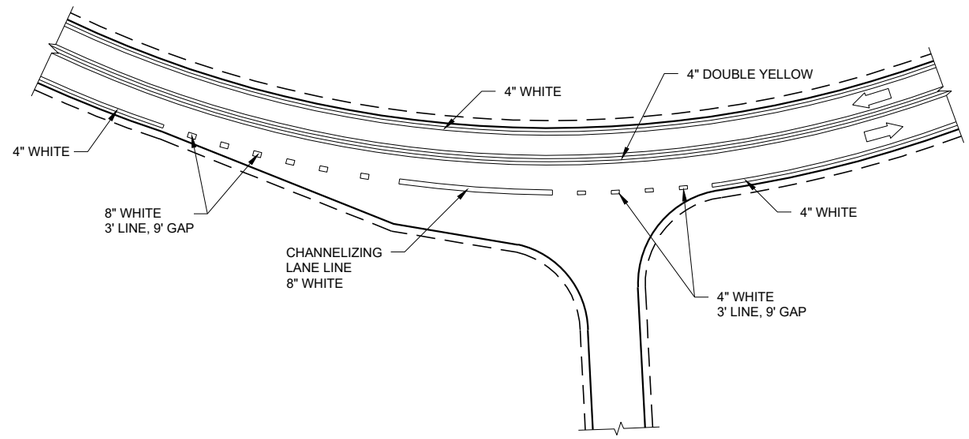
GENERAL NOTES

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

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

LEGEND

DIRECTION OF TRAVEL



INTERSECTION ON OUTSIDE OF CURVE

PAVEMENT MARKING (INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15C35 - 04a

6

SDD 15C35 - 04a

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)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA

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, REMOVABLE TAPE 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.

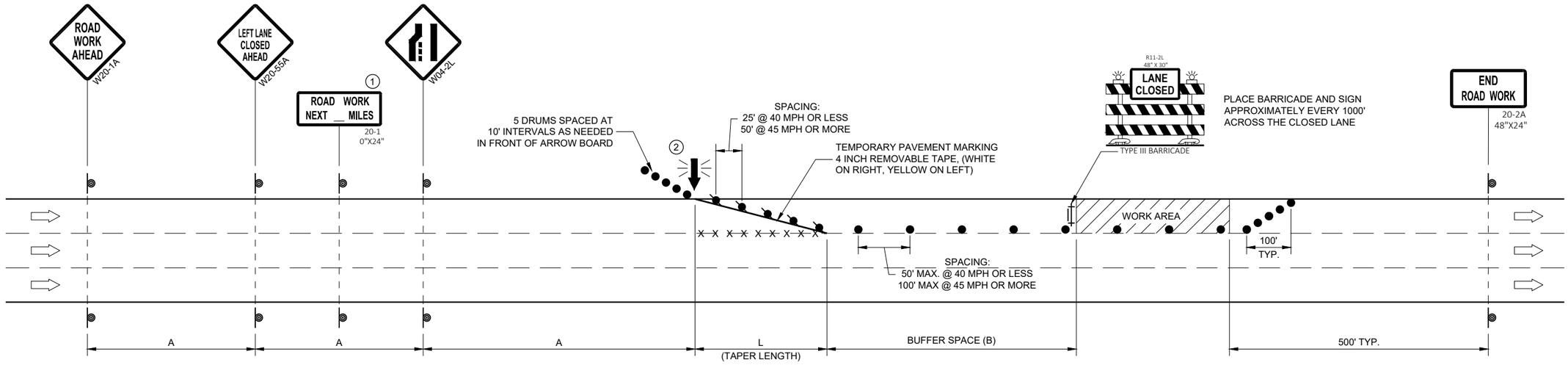
BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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
May 2020 — DATE
/S/ Andrew Heidtke — STATEWIDE WORK ZONE T SAFETY ENGINEER
FHWA

6

SDD15D20 - 05a

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)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA



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, REMOVABLE TAPE 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.

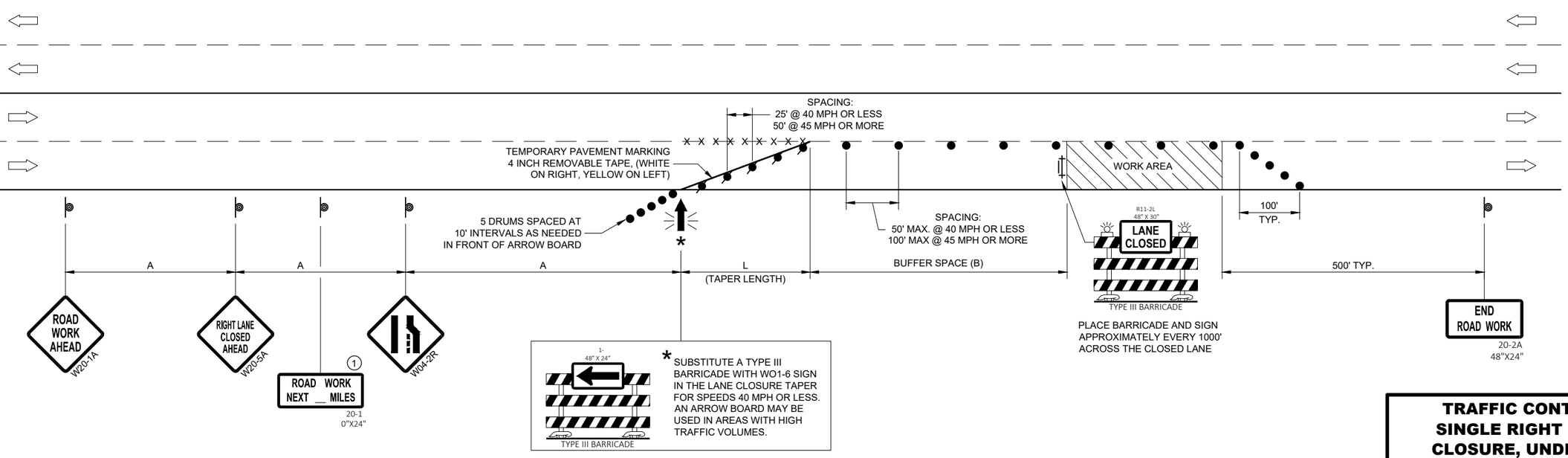
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

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

May 2020
DATE

/S/ Andrew Heidtke
STATEWIDE WORK ZONE T SAFETY ENGINEER

FHWA

SDD 15D20 - 05b

SDD 15D20 - 05b

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)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA

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, REMOVABLE TAPE 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.

DUE TO LACK OF SHOULDER/MEDIAN, ARROW BOARD IS PLACED AT THE THE END OF THE TAPER.

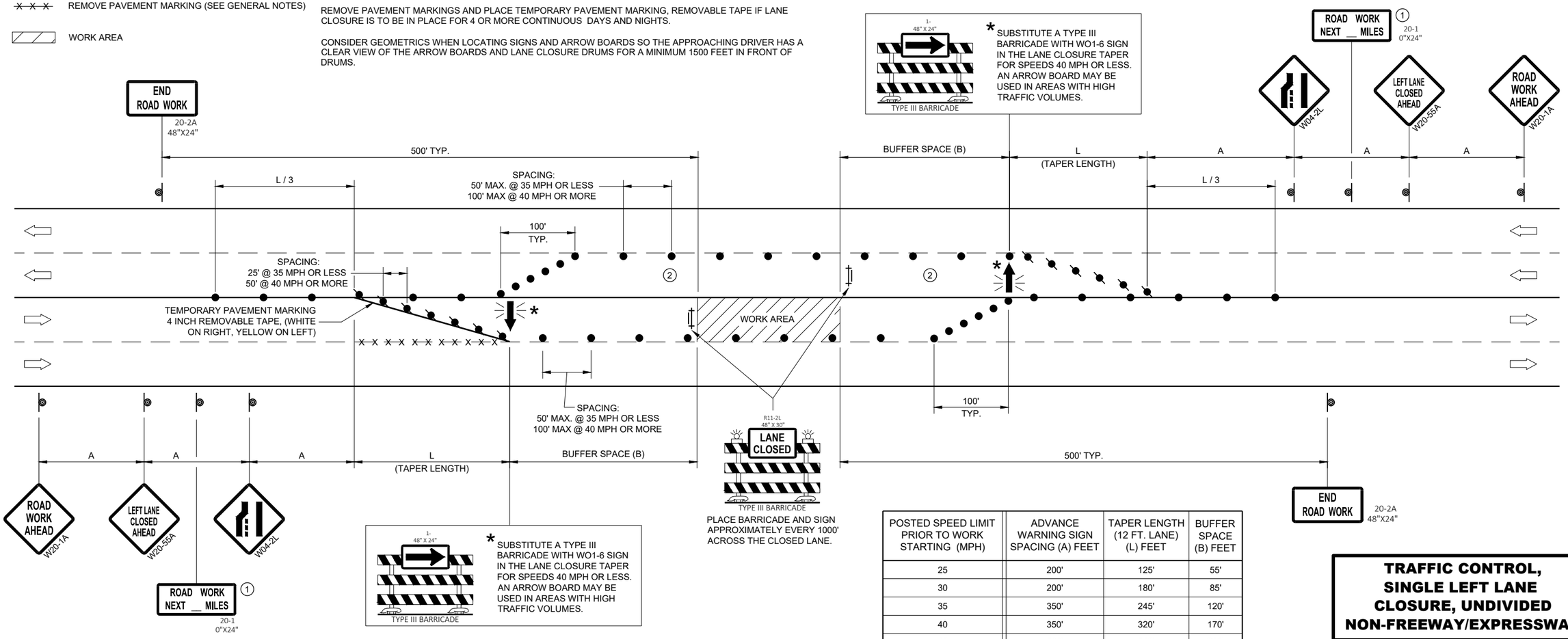
BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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.



1- 48" X 24"
TYPE III BARRICADE

* SUBSTITUTE A TYPE III BARRICADE WITH WO1-6 SIGN IN THE LANE CLOSURE TAPER FOR SPEEDS 40 MPH OR LESS. AN ARROW BOARD MAY BE USED IN AREAS WITH HIGH TRAFFIC VOLUMES.

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'

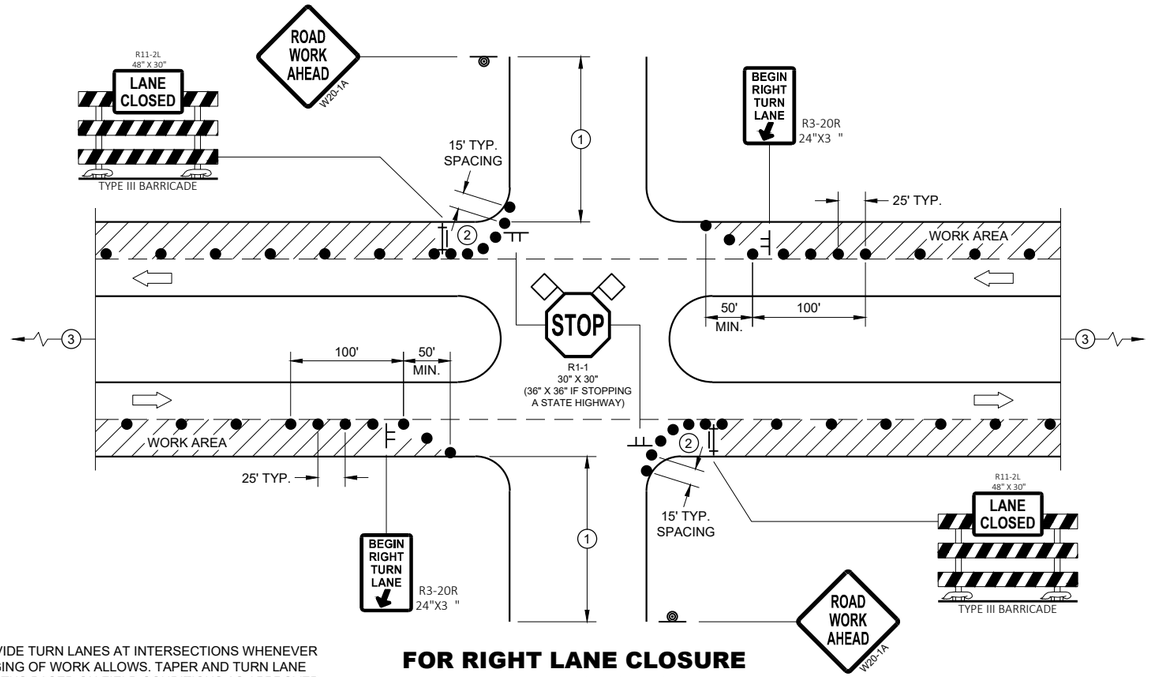
TRAFFIC CONTROL, SINGLE LEFT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020 — DATE
/S/ Andrew Heidtke — STATEWIDE WORK ZONE T SAFETY ENGINEER
FHWA

SDD 15D20 - 05c

SDD 15D20 - 05c



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

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.

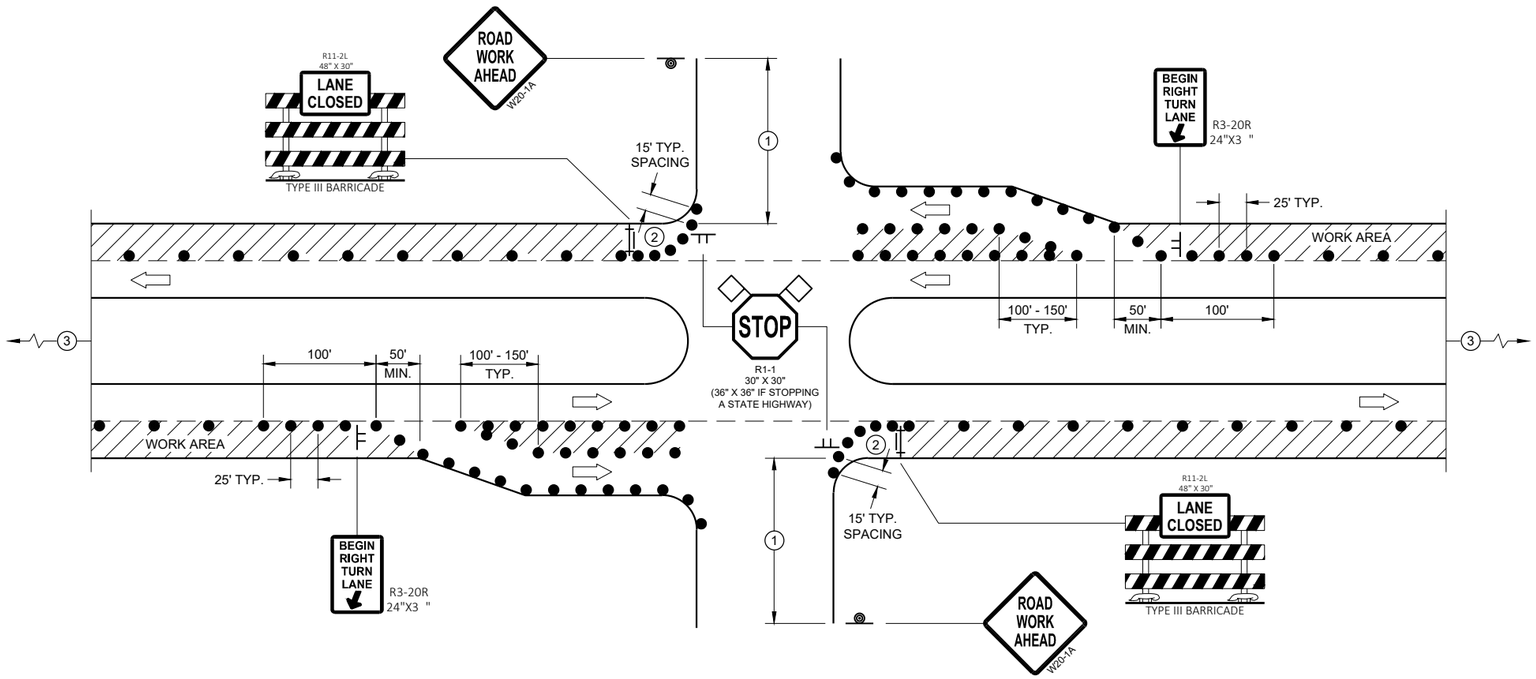
(1) 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35 - 40 MPH.
200' IF 25 - 30 MPH.

(2) ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.

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



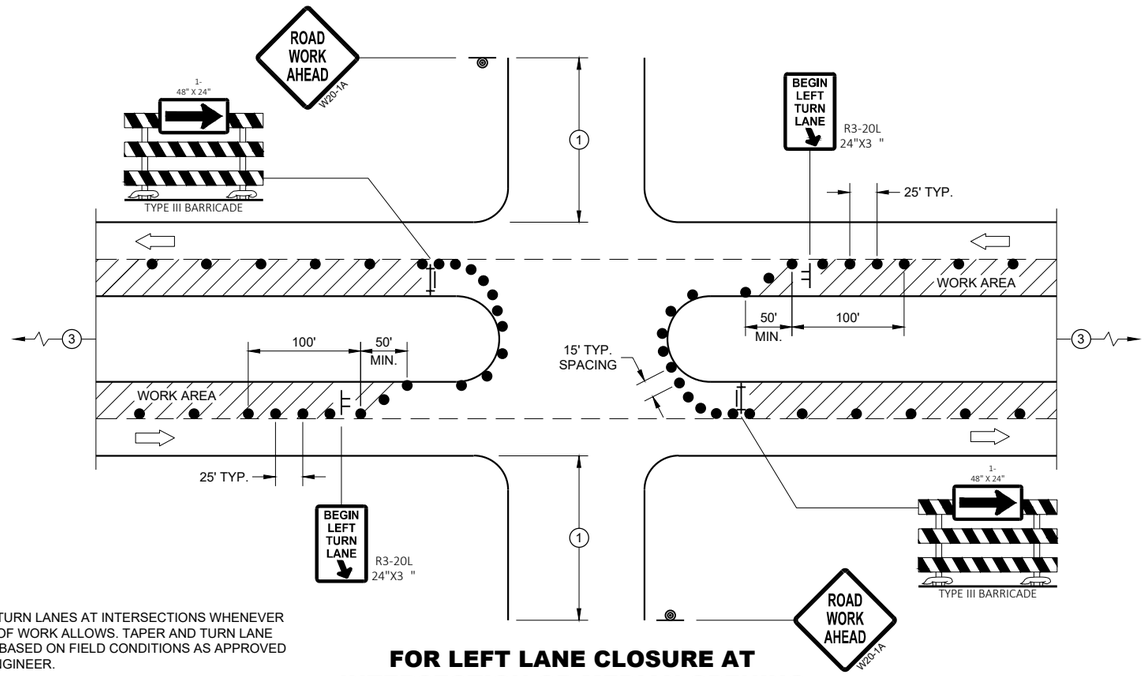
FOR RIGHT LANE CLOSURE AT INTERSECTION (WITH RIGHT TURN BAY OPEN)

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE RIGHT LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 15D21 - 06a

SDD 15D21 - 06a



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.

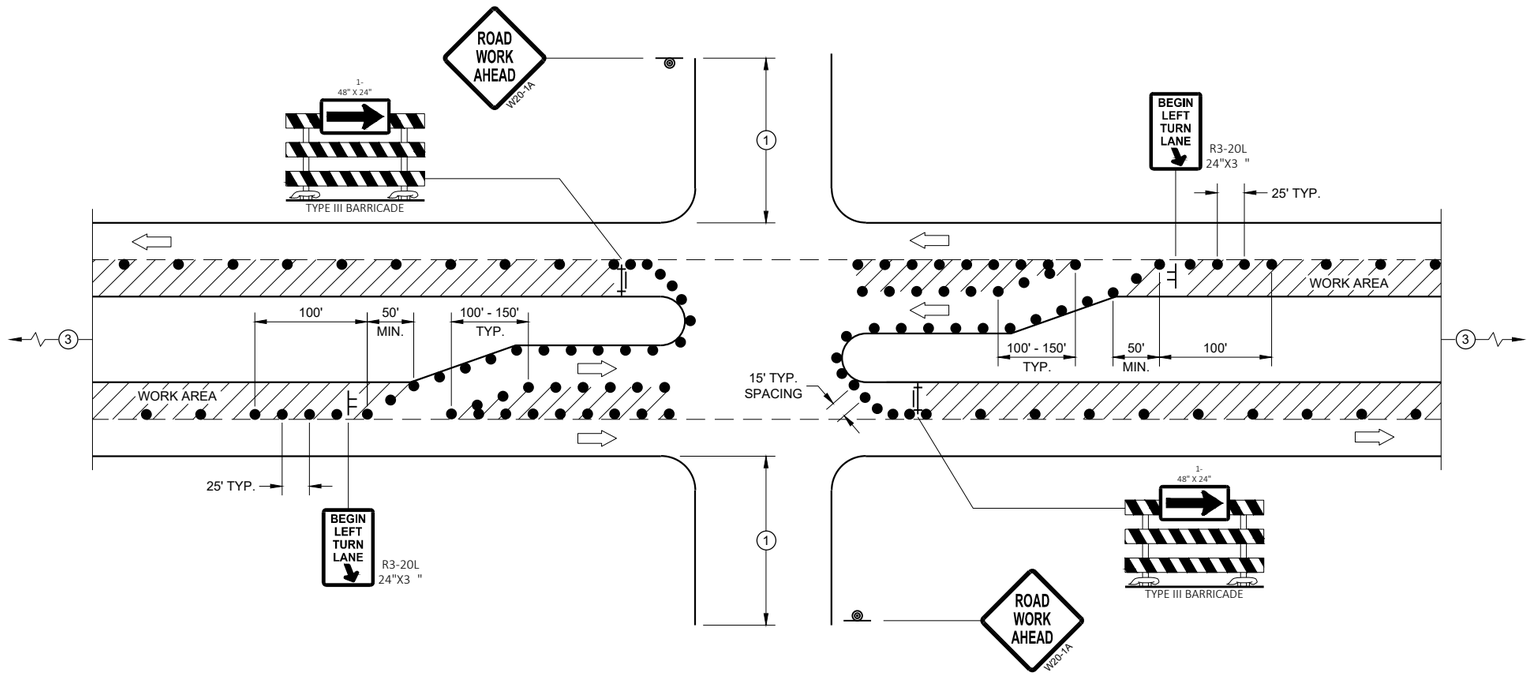
(1) 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35 - 40 MPH.
200' IF 25 - 30 MPH.

(2) ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.

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



FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING (WITH LEFT TURN BAY OPEN)

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LEFT LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

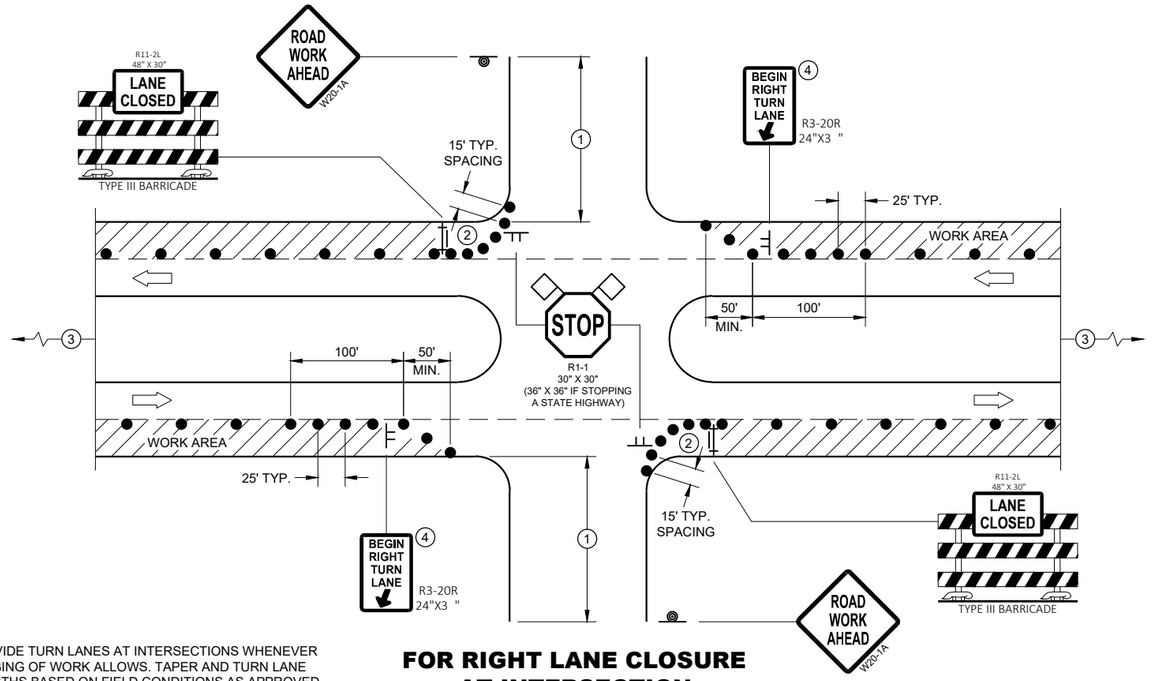
APPROVED
July 2018 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

6

SDD 15D21 - 06b

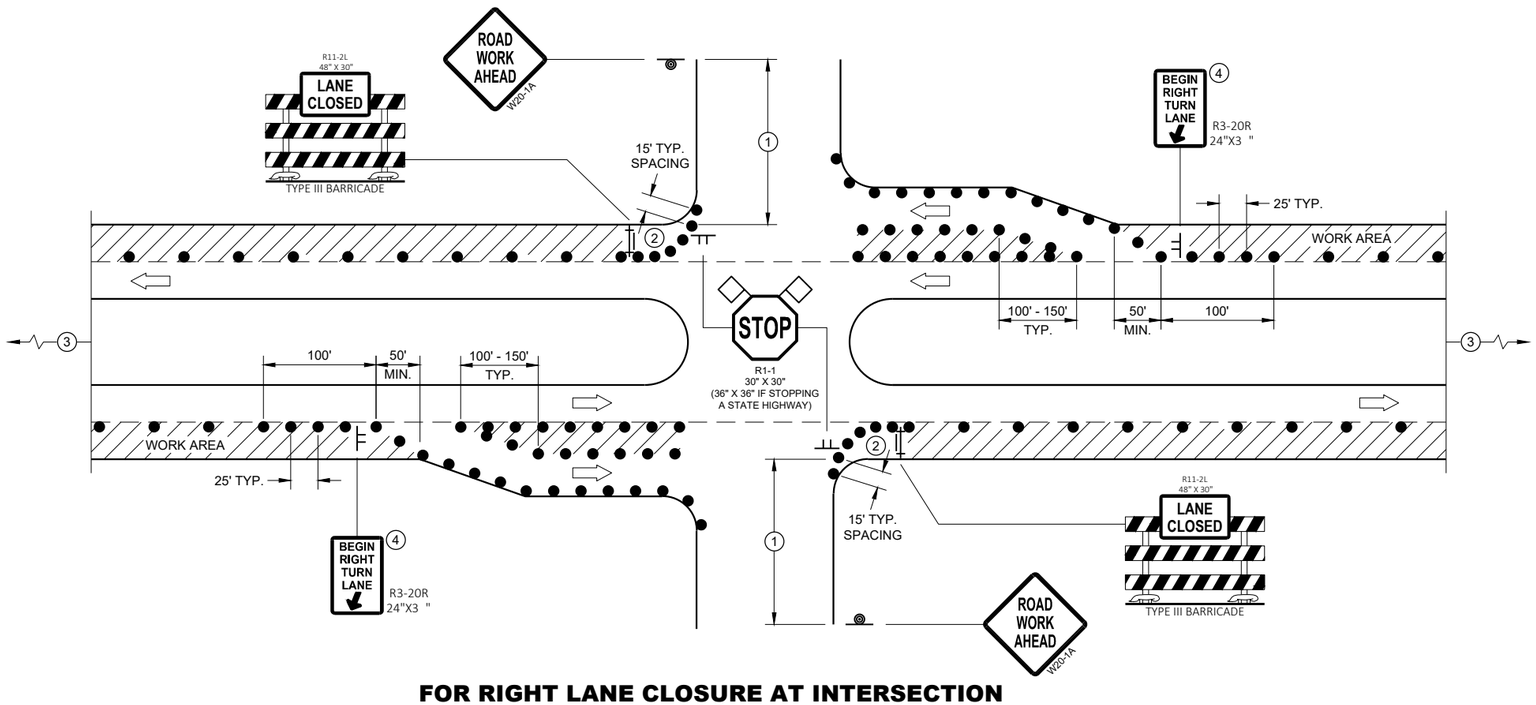
6

SDD 15D21 - 06b



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

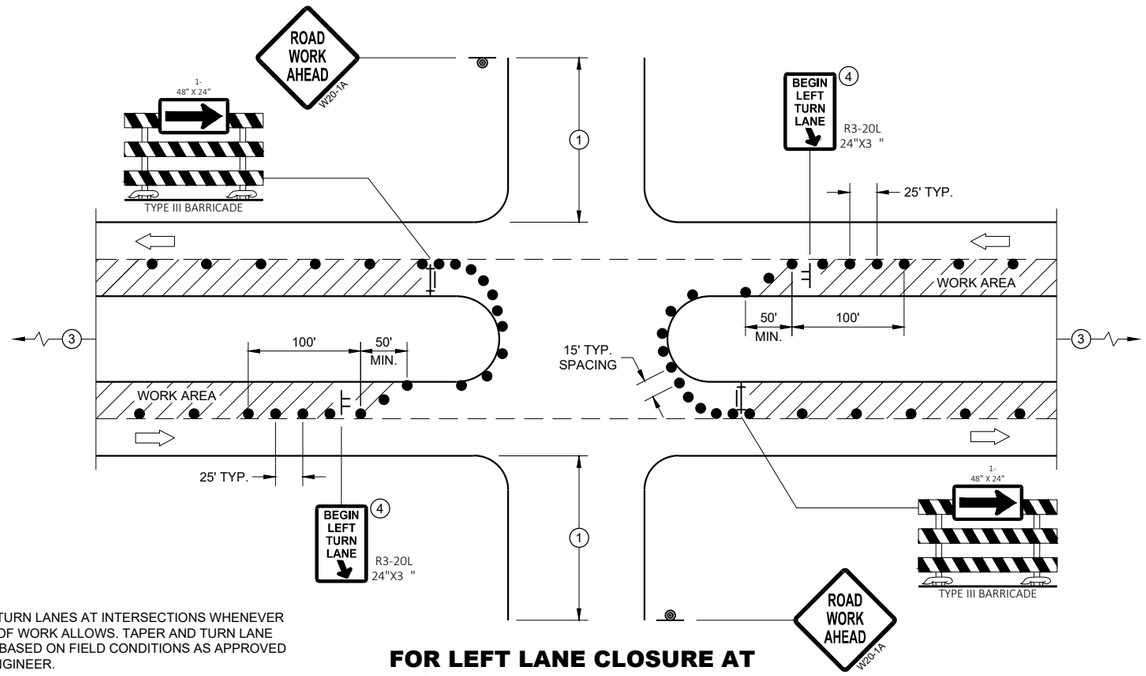
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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.

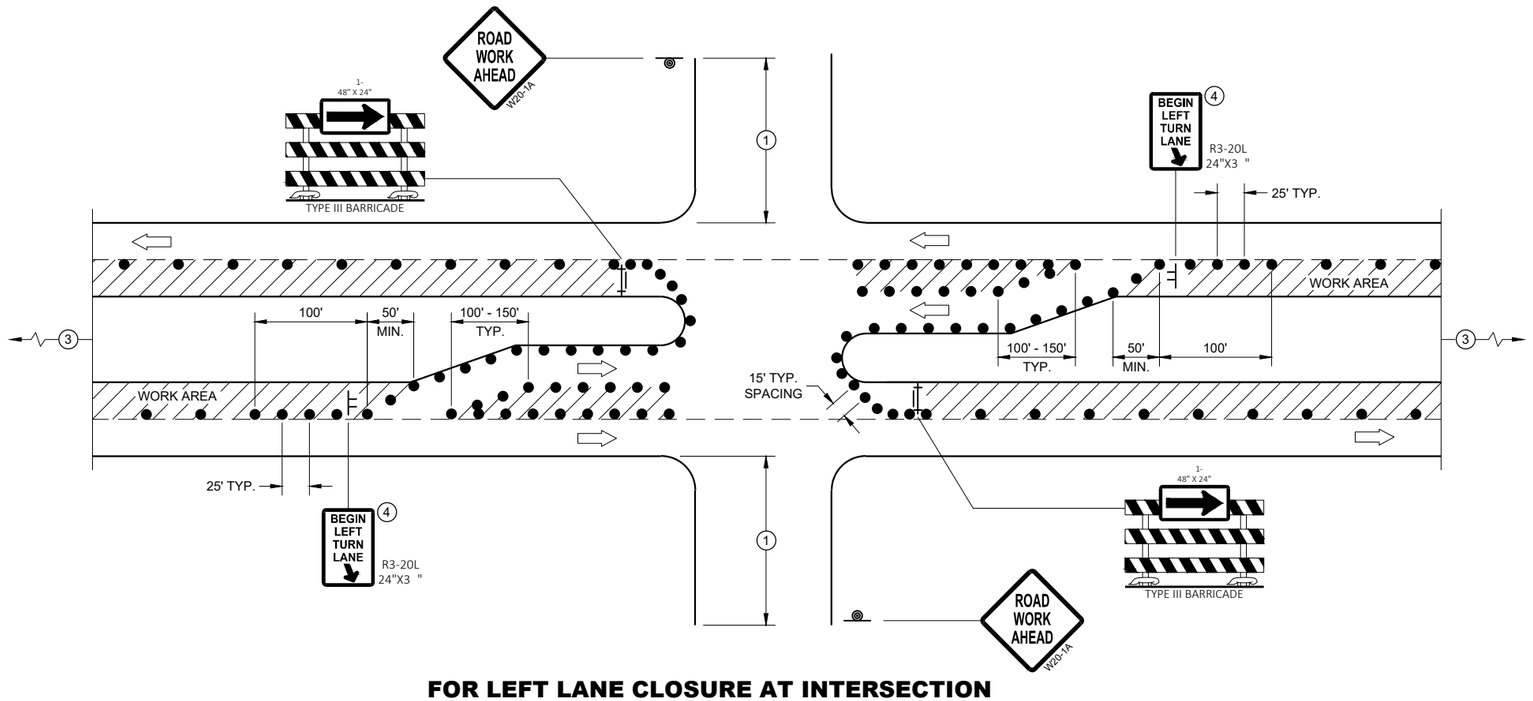
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

(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

- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA

GENERAL NOTES

FOR WORK ON ROADWAYS WITH SPEEDS GREATER THAN 45 MPH, USE SDD 15D14.

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE RIGHT TWO LANES.
FOR CLOSING LEFT TWO LANES, REVERSE THE TRAFFIC CONTROL.

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, REMOVABLE TAPE 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.

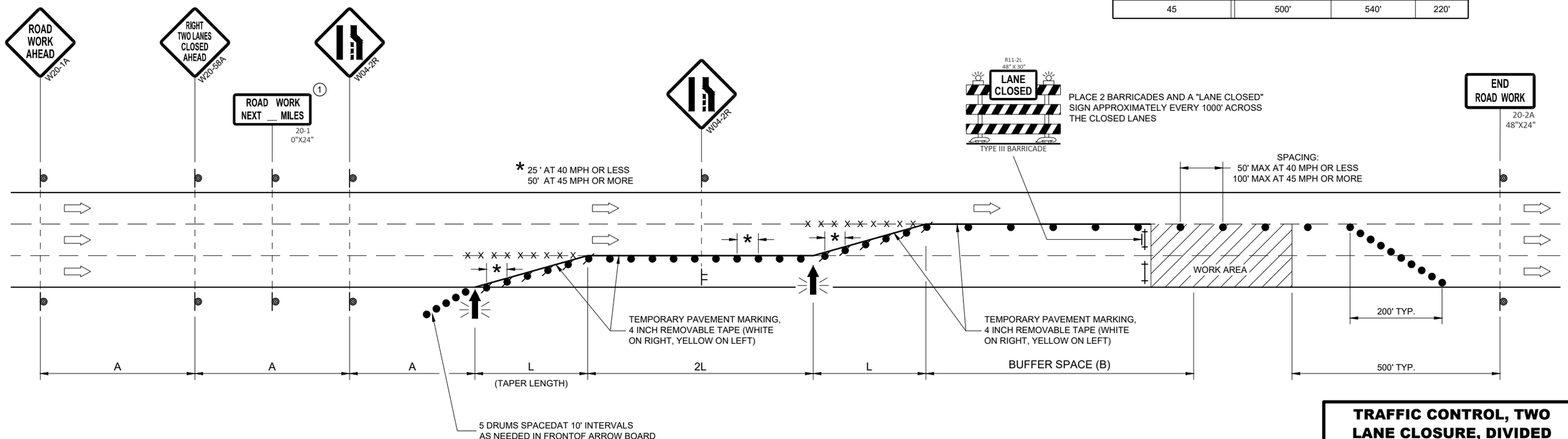
BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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'



TRAFFIC CONTROL, TWO LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

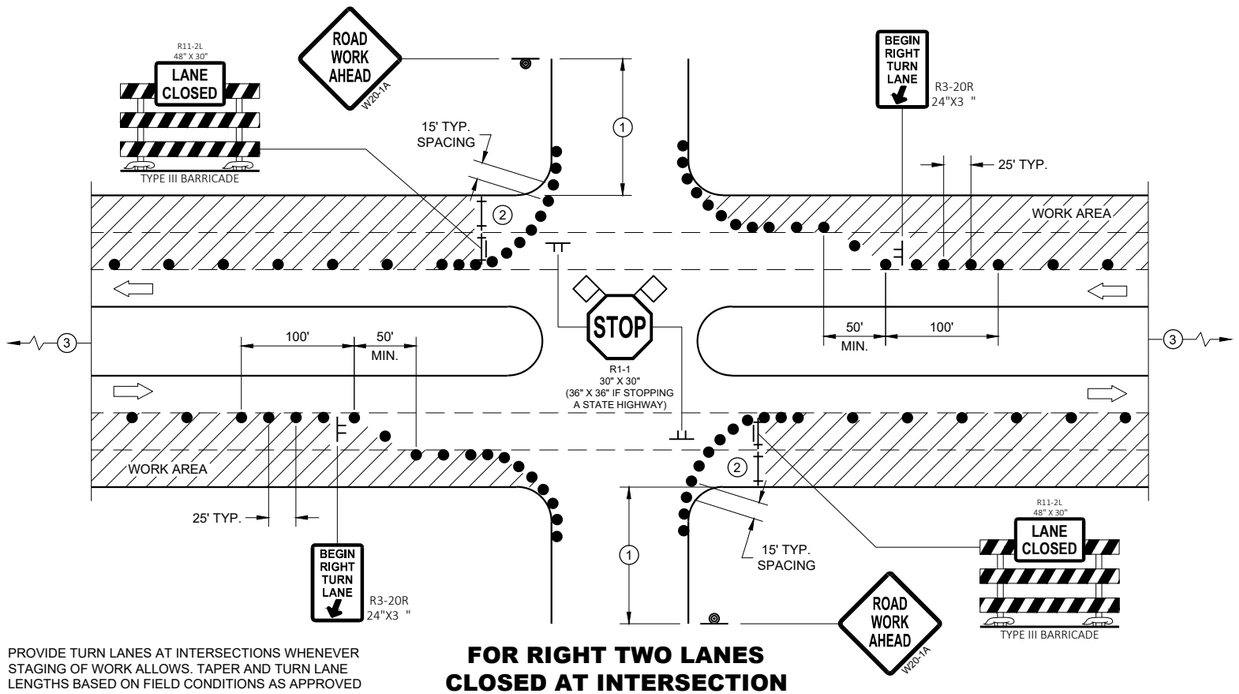
APPROVED
May 2020
DATE

/S/ Andrew Heidtke
STATEWIDE WORK ZONE T SAFETY ENGINEER

FHWA

6

SDD 15D22 - 04



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 TWO LANES CLOSED AT INTERSECTION

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.

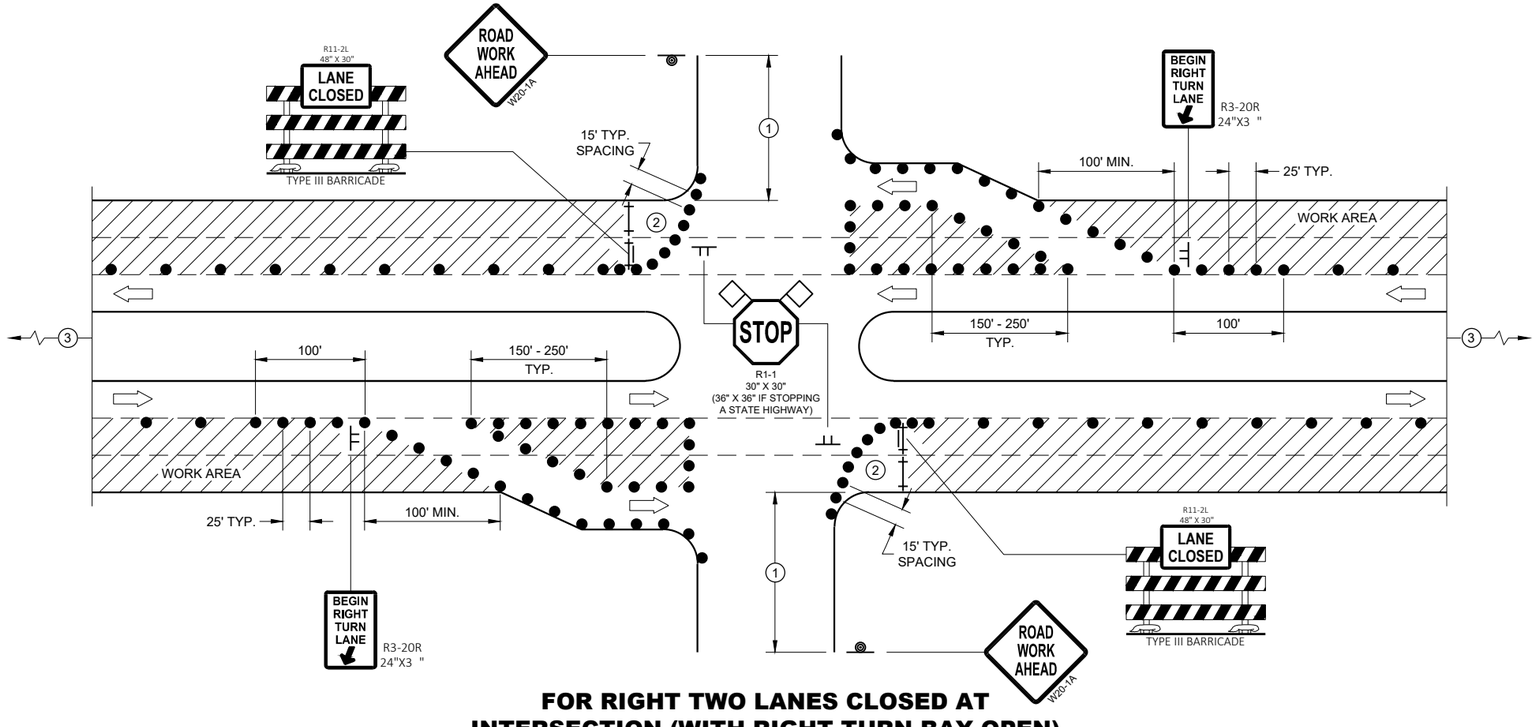
BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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.



FOR RIGHT TWO LANES CLOSED AT INTERSECTION (WITH RIGHT TURN BAY OPEN)

LEGEND

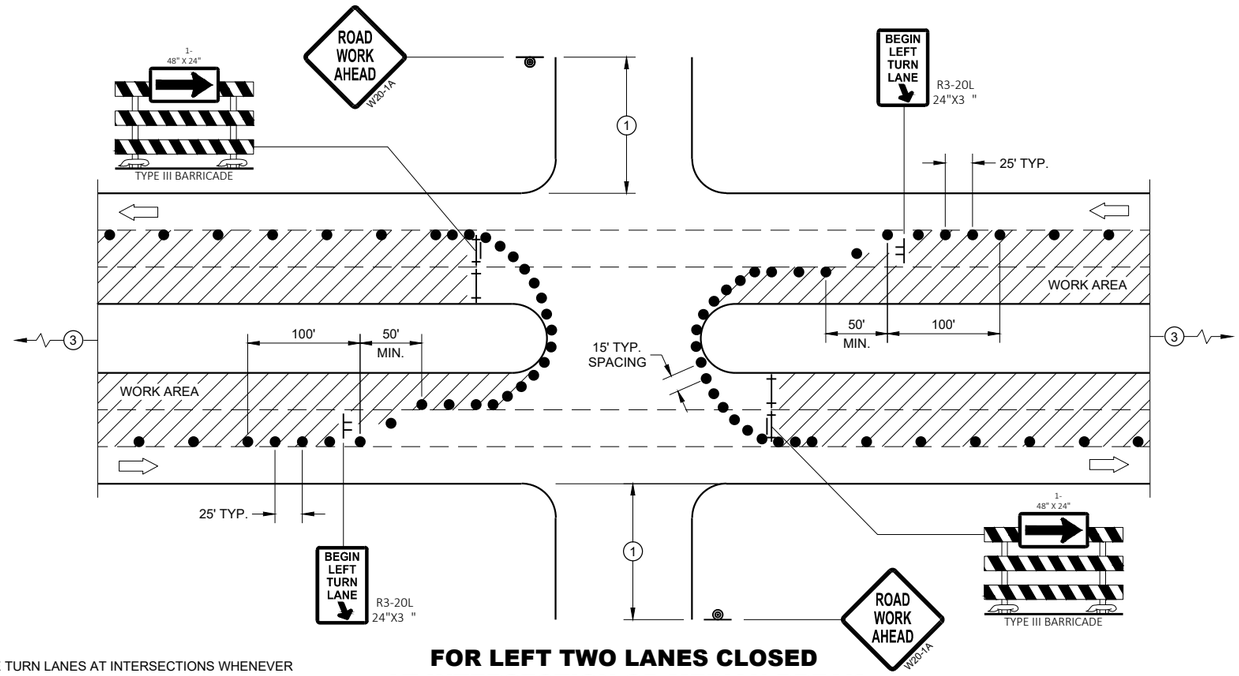
- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., ORANGE
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN TWO RIGHT LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

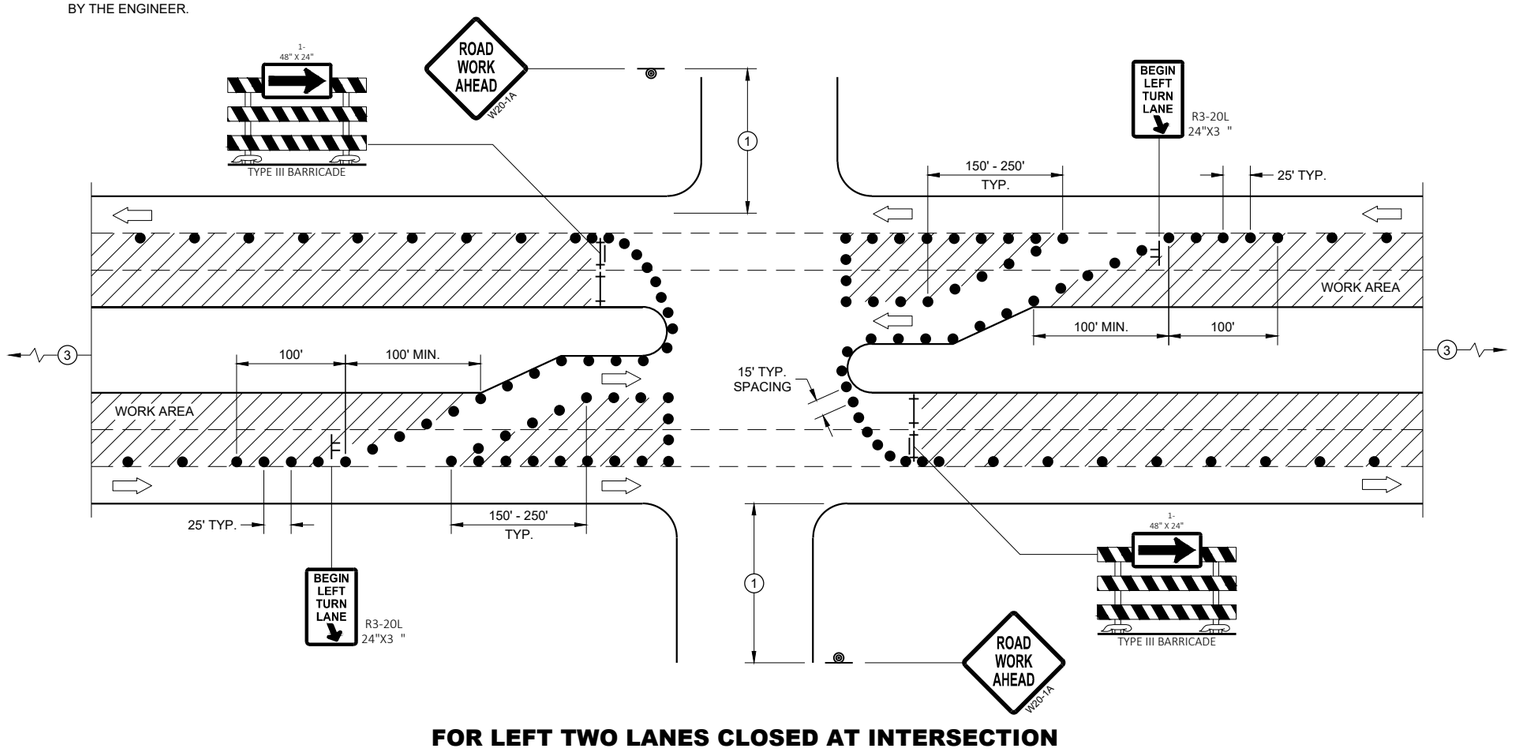
6

SDD15D23 - 06a



FOR LEFT TWO LANES CLOSED AT INTERSECTION OR MEDIAN BREAK

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 TWO LANES CLOSED AT INTERSECTION OR MEDIAN BREAK (WITH LEFT 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.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., ORANGE
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN TWO LEFT LANE CLOSURE

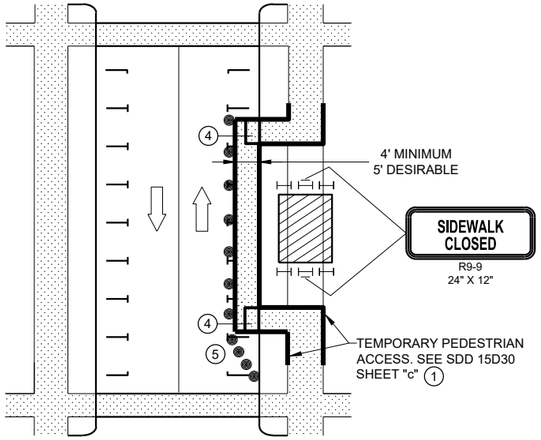
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018 — DATE
/S/ Amdrew Heidtke — WORK ZONE ENGINEE
FHWA

SDD 15D23 - 06b

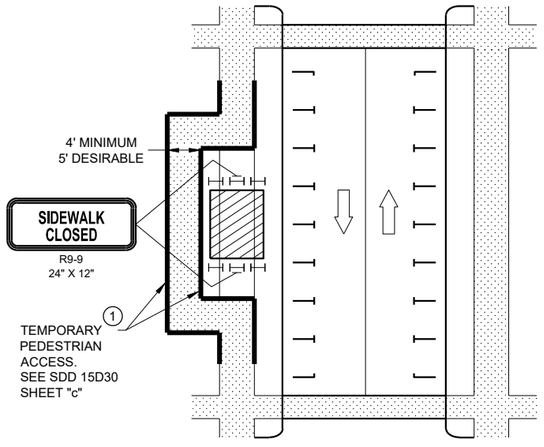
6
SDD 15D23 - 06b

NOTE: MAY BE USED ON ROADWAY WITH POSTED SPEED OF LESS THAN 40 MPH.

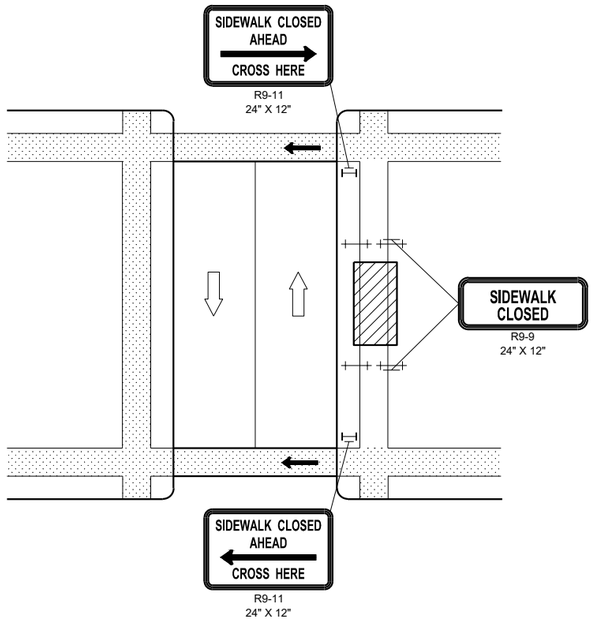


MID-BLOCK SIDEWALK SIDEWALK CLOSURE IN PARKING LANE

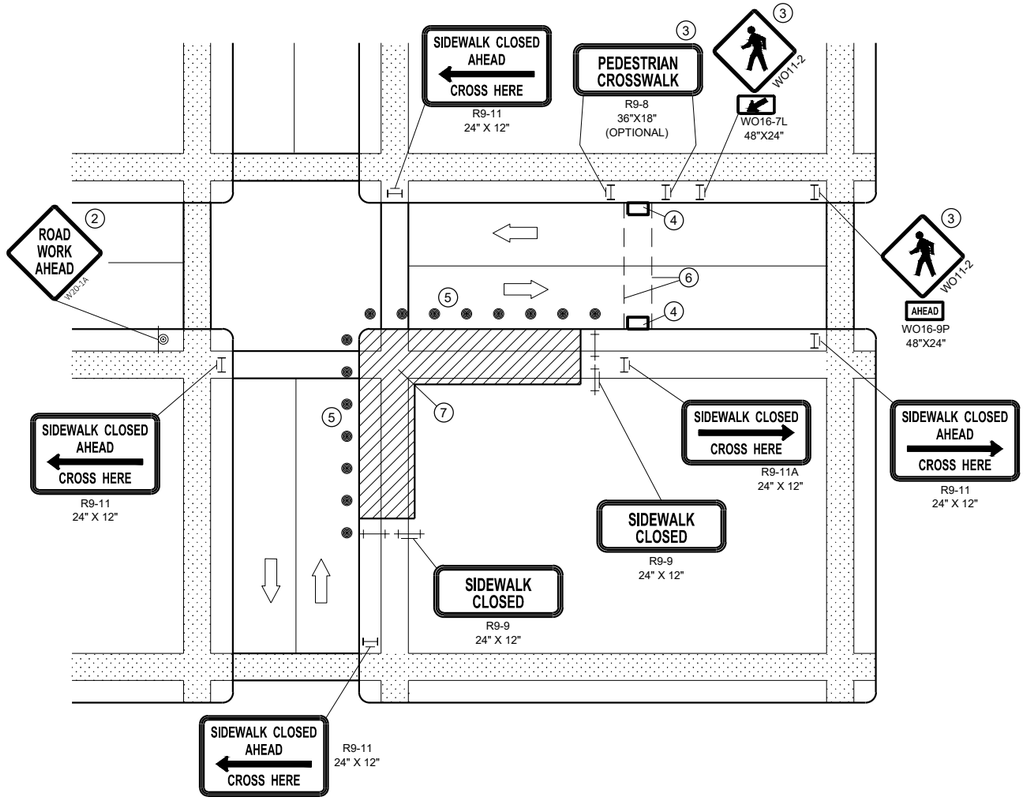
NOTE: LAYOUT SAME AS ABOVE.



SIDEWALK DIVERSION



MID-BLOCK SIDEWALK CLOSURE



CORNER SIDEWALK CLOSURE WITH TEMPORARY CROSSWALK

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK AS NECESSARY, TO PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

"WO" SIGN IS THE SAME AS "W" SIGN, EXCEPT THE BACKGROUND IS ORANGE.

FOR NIGHTIME CLOSURE, USE TYPE "A" FLASHING WARNING LIGHTS ON BARRICADES, SUPPORTING SIGNS AND CLOSING SIDEWALK. USE TYPE "C" STEADY BURN LIGHTS ON CHANNELIZING DEVICES SEPARATING THE WORK AREA FROM VEHICULAR TRAFFIC.

PEDESTRIAN TRAFFIC SIGNAL DISPLAY CONTROLLING CLOSED CROSSWALK SHALL BE COVERED OR DEACTIVATED.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

ALTERNATE SIDEWALK WORK BETWEEK LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

1. IF SIDEWALK CLOSURE AFFECTS AN ACCESSIBLE AND DETECTABLE FACILITY, MAINTAIN ACCESSIBILITY AND DETECTABILITY ALONG THE ALTERNATE PEDESTRIAN ROUTE
2. "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.
3. IF TEMPORARY PEDESTRIAN CROSSWALK IS NOT PROVIDED, OMIT R9-8 AND WO11-2 SIGN ASSEMBLIES. IF PROVIDED INCLUDE ON BOTH SIDES OF THE CROSSWALK.
4. TEMPORARY CURB RAMPS. SEE SDD 15D30 SHEET "b'.
5. DRUMS OR BARRICADES AT 25 FOOT SPACING. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.
6. TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.
7. LIMIT WORK TO ONE QUADRANT AT A TIME TO MINIMIZE PEDESTRIAN DISRUPTION.

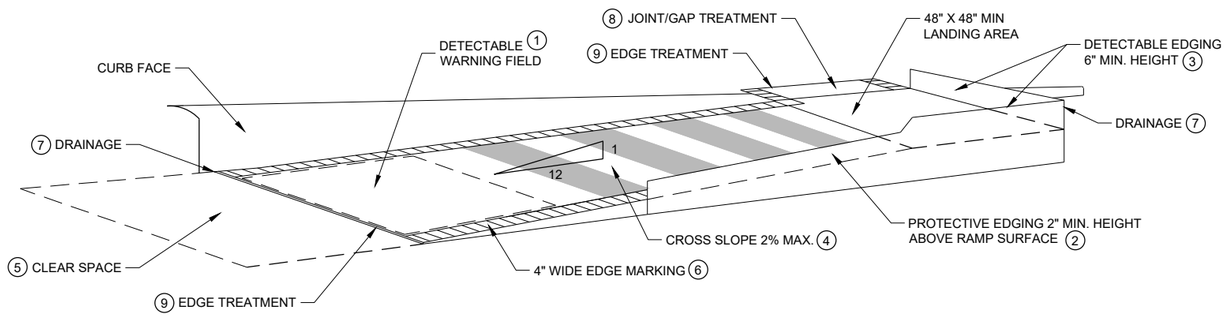
LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING)
- TYPE III BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING)
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- PEDESTRIAN CHANNELIZATION DEVICE
- DIRECTION OF TRAFFIC

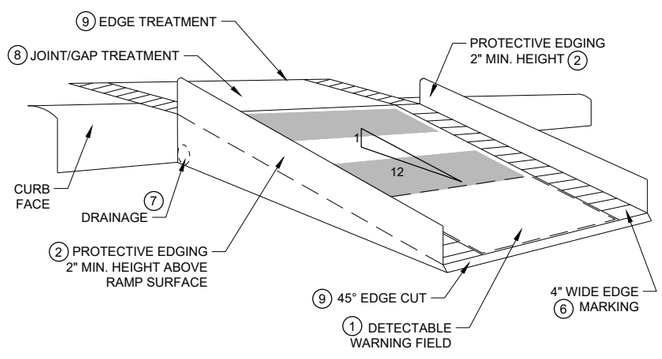
TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

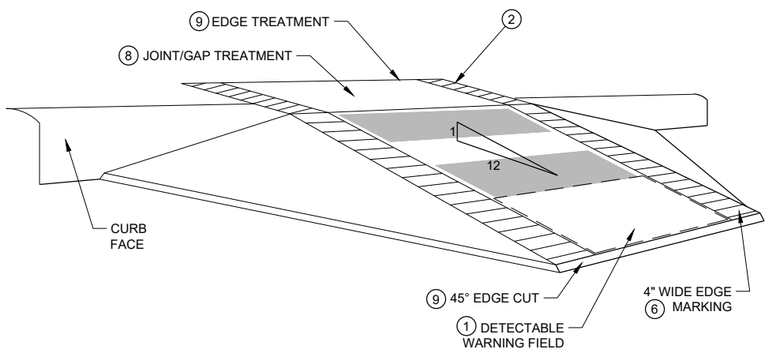
6
SDD15D30 - 06a



TEMPORARY CURB RAMP PARALLEL TO CURB



WITH PROTECTIVE EDGE



WITH SIDE APRON

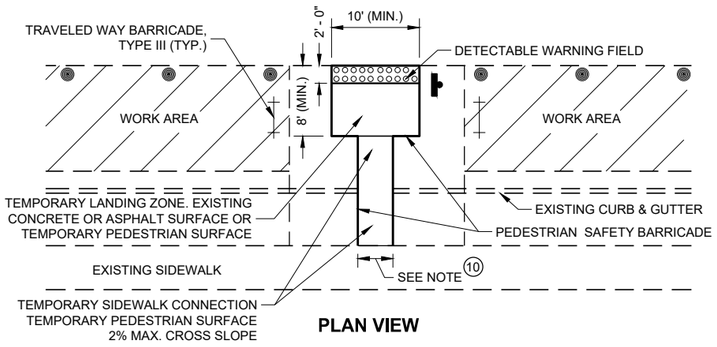
TEMPORARY CURB RAMP PERPENDICULAR TO CURB

GENERAL NOTES

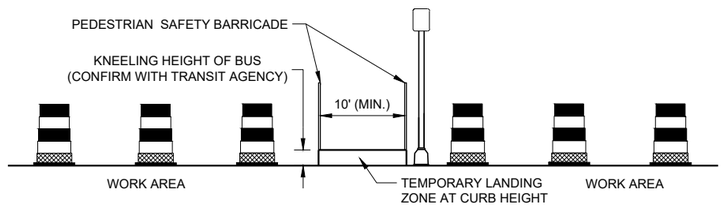
NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

1. CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A A FIRM, STABLE AND SLIP RESISTANT SURFACE. INSTALL CONTRASTING DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS. REFER TO SDD 08D05, SHEET "e".
2. PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
3. DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
4. CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.
5. CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
6. THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A YELLOW COLOR, 4" WIDE MARKING, UNLESS A CONTRASTING DETECTABLE WARNING FIELD IS PROVIDED.
7. DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
8. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.
9. CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES SHALL BE VERTICAL UP TO ¼" HIGH AND BEVELED AT 1:2 BETWEEN ¼" AND ½".
10. 5" WIDE MIN. WITH PEDESTRIAN SAFETY BARRICADE, 10' WIDE MIN. WITHOUT PEDESTRIAN SAFETY BARRICADE.



PLAN VIEW



PROFILE VIEW

TEMPORARY BUS STOP PAD

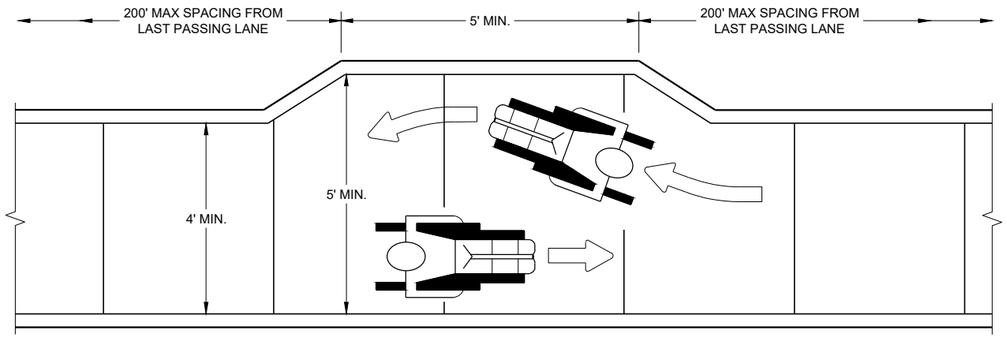
LEGEND

- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE
- WORK AREA

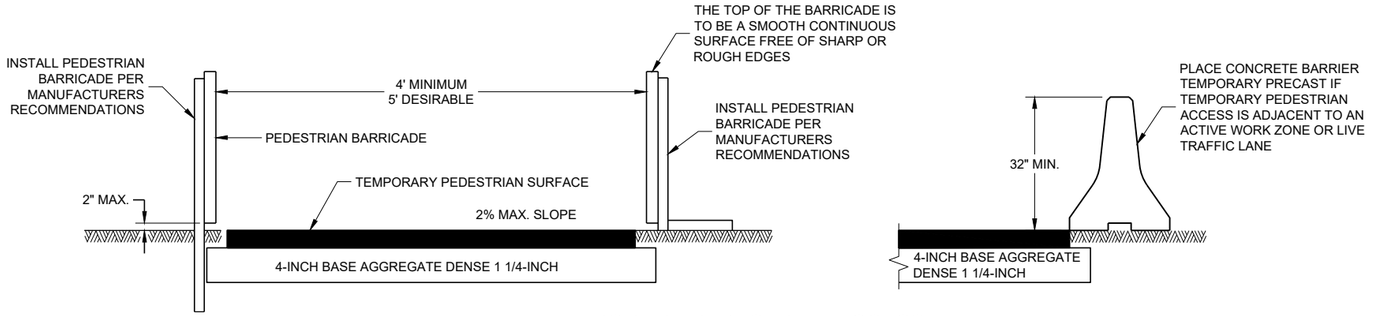
TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

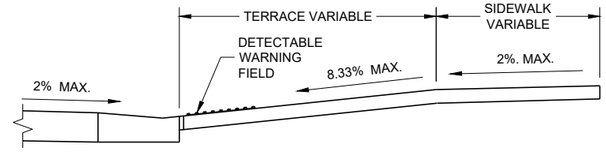
6
SDD 15D30 - 06b



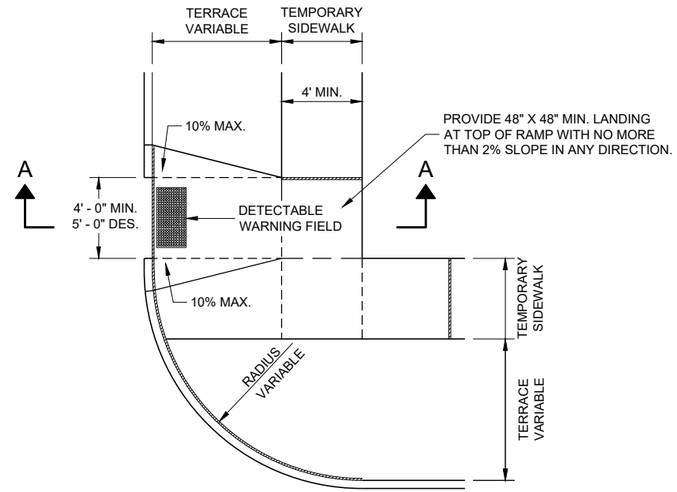
NARROW SIDEWALK PASSING DETAIL



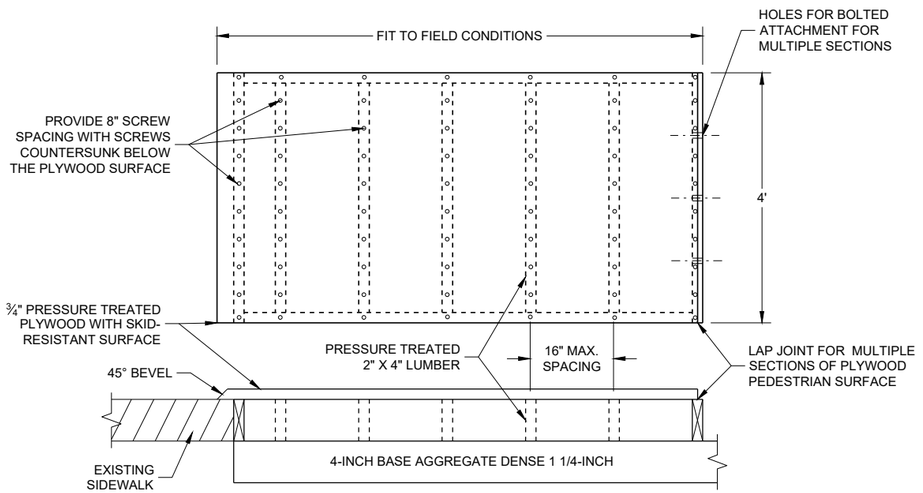
TEMPORARY PEDESTRIAN ACCESS



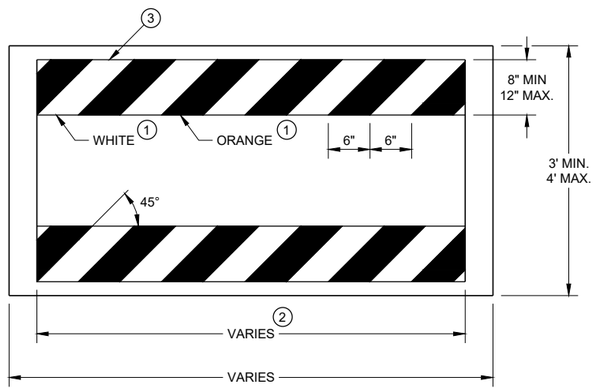
SECTION A - A



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



TEMPORARY PEDESTRIAN SURFACE PLYWOOD



TEMPORARY PEDESTRIAN BARRICADE *

GENERAL NOTES

BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.
3. PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.

* USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

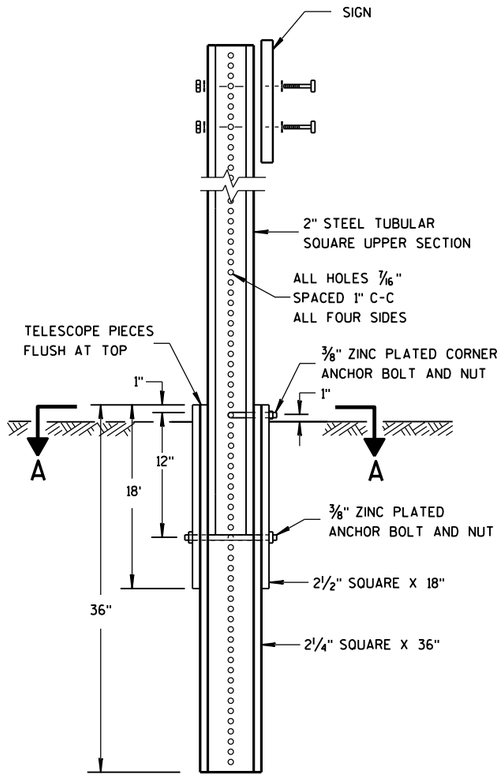
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

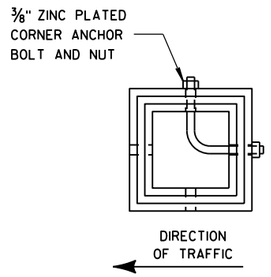
/S/ Andrew Heidtke
WORK ZONE ENGINEE 572

FHWA

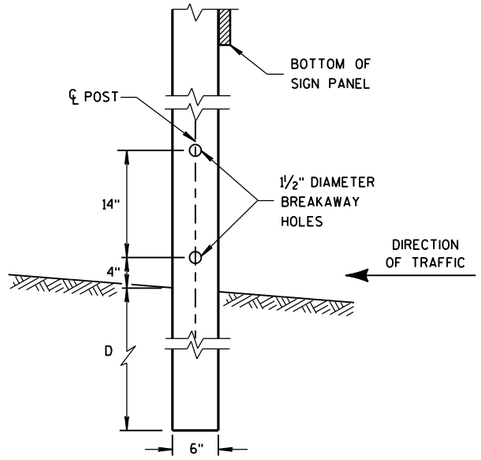
6
SDD 15D30 - 06c



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



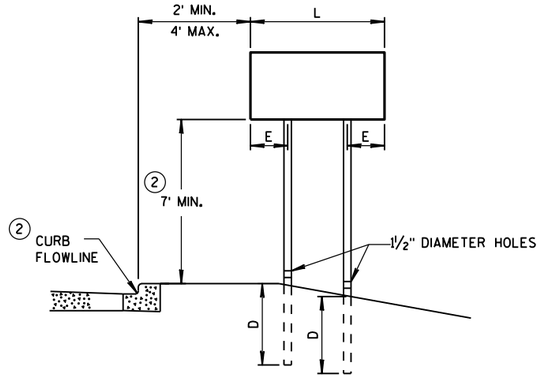
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

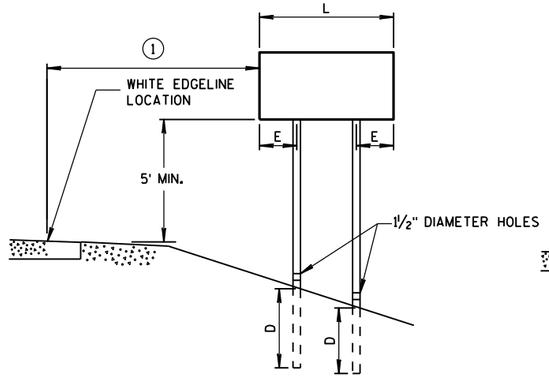
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

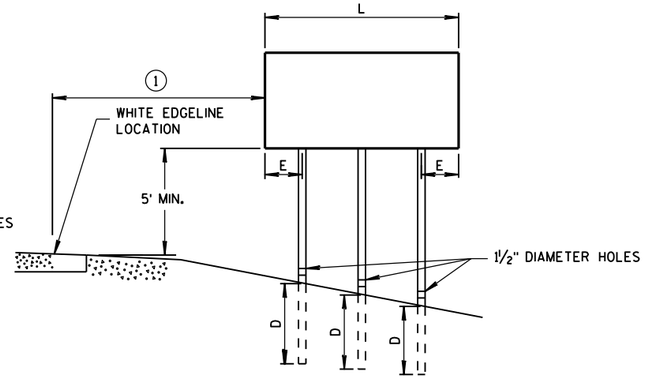
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

(3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

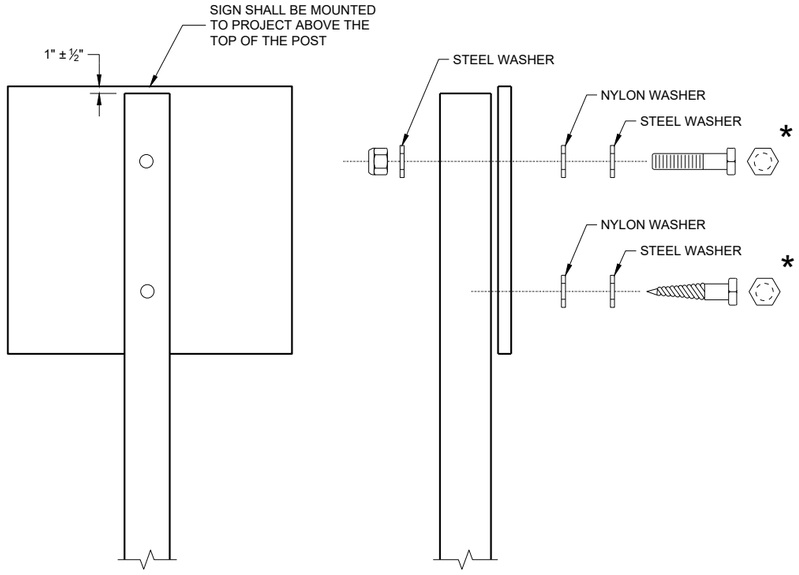
SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 15 D 38-2a



NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3
B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POST (4" x 6")
LAG SCREWS - ⅜" x 3"
MACHINE BOLTS - 5/16" x 6 ½" OR 7" LENGTH W/NUTS

SQUARE STEEL POST (2" x 2")
MACHINE BOLTS - ⅜" x 3 ¼" LENGTH W/NUTS
RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE 0.720 - 0.765 INCH, GRIP RANGE 0.042 - 0.375 INCH

WASHERS (ALL POSTS) -
1 ¼" O.D. x ⅜" I.D. x 1/16" STEEL
1 ¼" O.D. x ⅜" I.D. x 0.080 NYLON

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

6

6

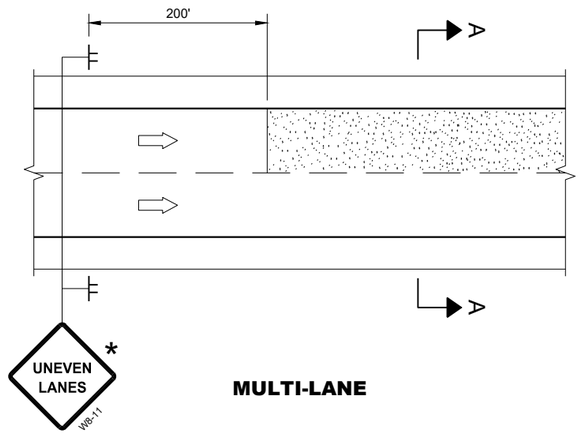
SDD 15D38 - 02b

SDD 15D38 - 02b

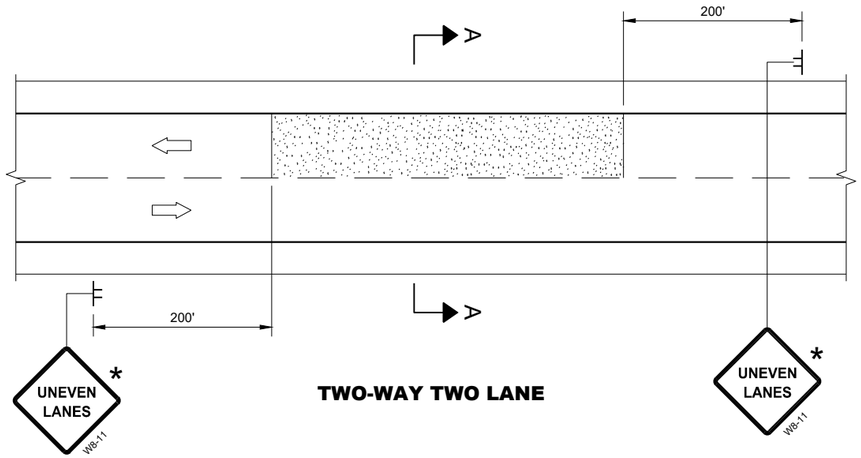
ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
574
FHWA



MULTI-LANE



TWO-WAY TWO LANE

GENERAL NOTES

FOR SPOT LOCATIONS USE ENGINEERING JUDGEMENT WHEN PLACING ADDITIONAL SIGNS.

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

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

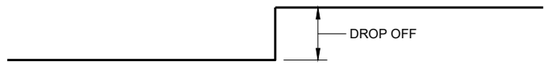
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

* IF THE DROP-OFF IS CONTINUOUS ALONG THE PROJECT, PLACE ADDITIONAL SIGNS EVERY 1 MILE AND AFTER EVERY ENTRANCE RAMP.

(1) USE CLOSER SPACING WHEN DELINEATING DROP-OFF.

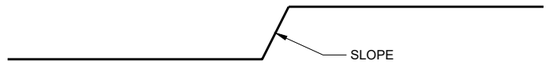
LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA WITH DROP-OFF
- MILLED SURFACE

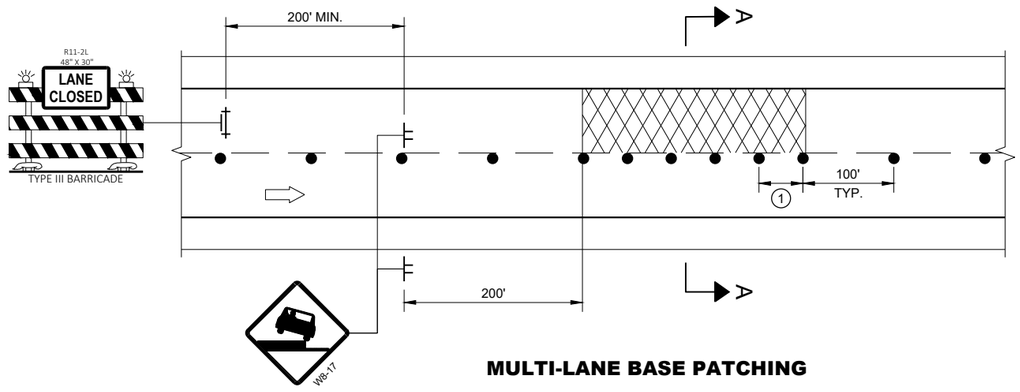


SECTION A - A

OR

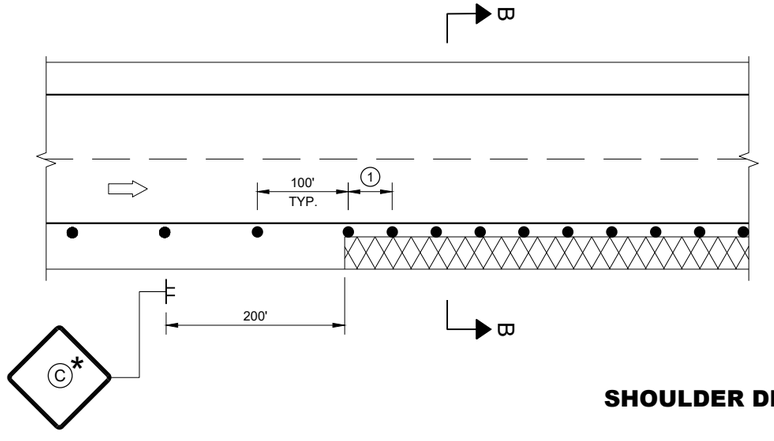


SECTION A - A

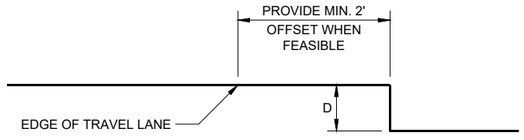


MULTI-LANE BASE PATCHING

ADJACENT LANE DROP-OFFS



SHOULDER DROP-OFFS



SECTION B - B

D	SIGN (C)
< 2" WITH A SLOPE STEEPER THAN 3:1	LOW SHOULDER WO8-9
2" < 6" WITH A SLOPE STEEPER THAN 3:1	SHOULDER DROP - OFF W8-9A PROVIDE A 3:1 OR FLATTER SLOPE OF MATERIAL ADJACENT TO THE PAVEMENT

TRAFFIC CONTROL, DROP-OFF SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6
SDD 15D39 - 02

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)

GENERAL NOTES

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIREABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR SHIFTING RIGHT LANE - REVERSE FOR SHIFTING LEFT LANE.

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

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

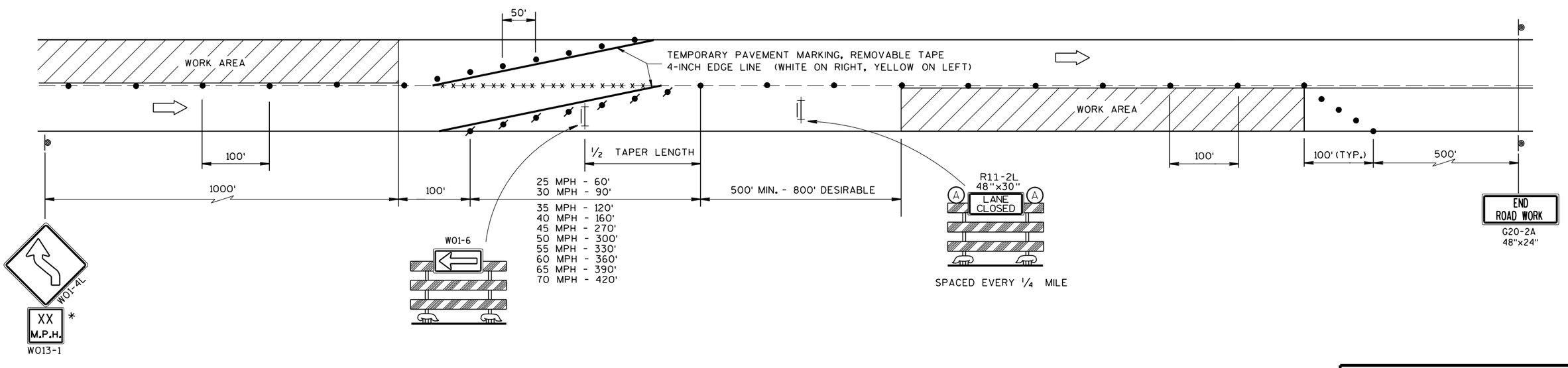
FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.



* USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED

LANE SHIFT MULTI-LANE DIVIDED OR ONE WAY ROAD

TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE WAY ROAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018
DATE
/S/ Andrew I
WORK ZONE E
FHWA

6

S.D.D. 15 D 40-1

GENERAL NOTES

DRAWING NOT TO SCALE. ALL SIGNS AND POSTS ON THIS SHEET SHALL BE PAID FOR WITH 'TRAFFIC CONTROL SIGNS' BID ITEM. ALL SIDE ROADS WHICH ARE UNDER CONSTRUCTION OF CURB AND GUTTER AND/OR GRADING SHALL BE ADEQUATELY SIGNED.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

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

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

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

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNS IN THE VICINITY, SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

SEE 15C34 FOR ADDITIONAL TRAFFIC CONTROL SIGNING WHEN CENTERLINE PAVEMENT MAKINGS ARE MISSING. 'DO NOT PASS' SIGNS MUST BE INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

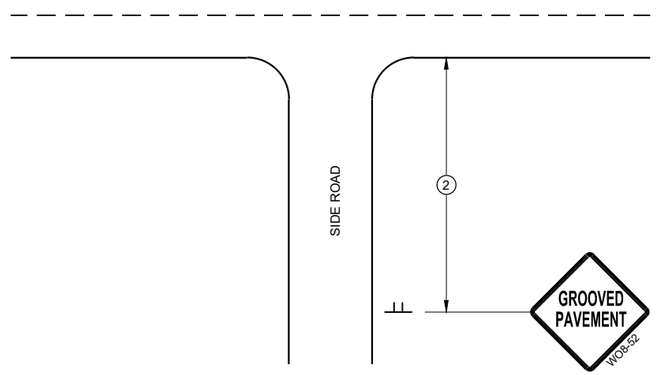
(1) PLACE SIGNS 350' IN ADVANCE OF MILLED SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.

(2) PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

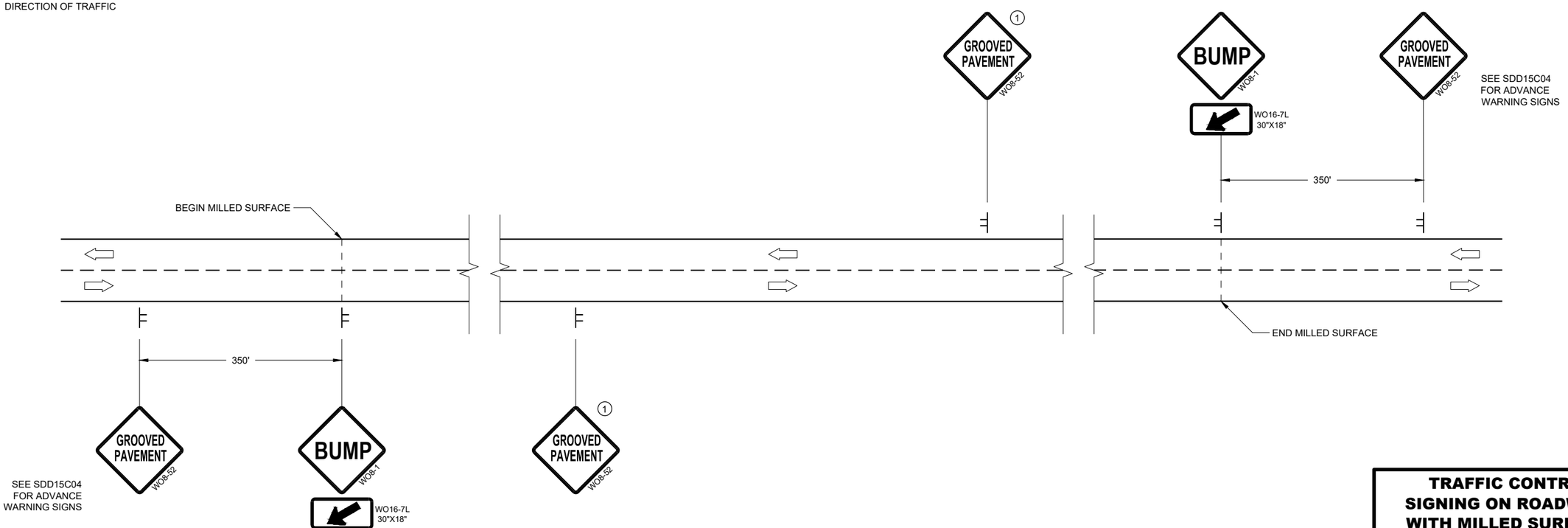
LEGEND

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC



TYPICAL SIDE ROAD APPROACH SIGN DETAIL



DETAIL FOR SIGNING ON MILLED SURFACES

TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

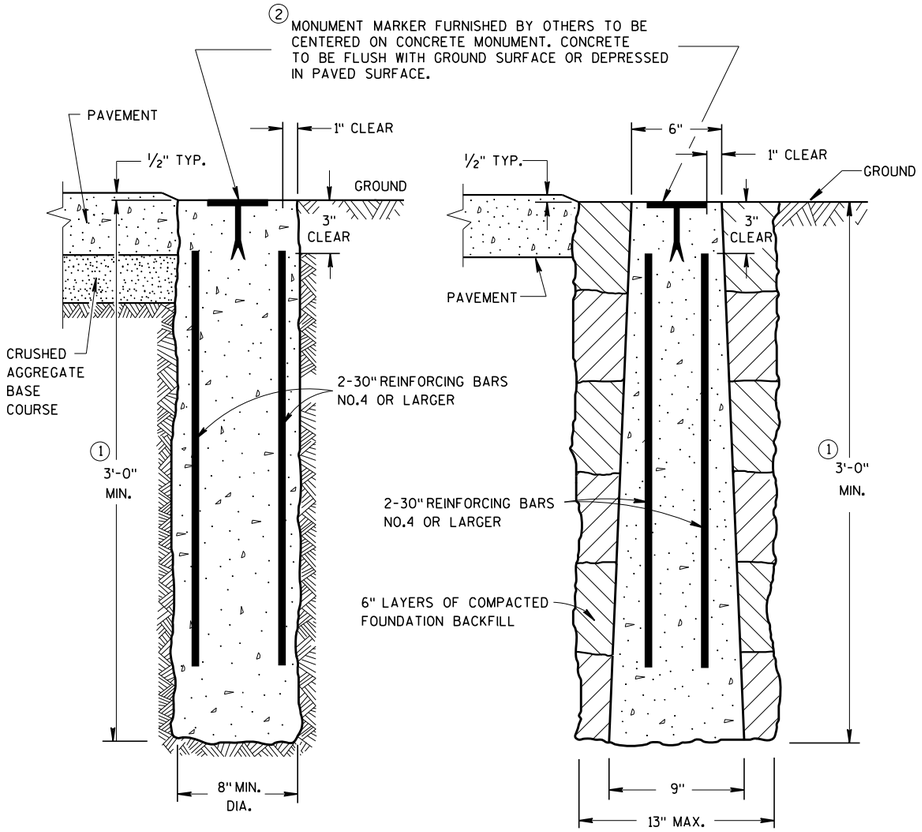
/S/ Andrew Heidtke
WORK ZONE ENGINEER

577

FHWA

6

SDD 15D44 - 02

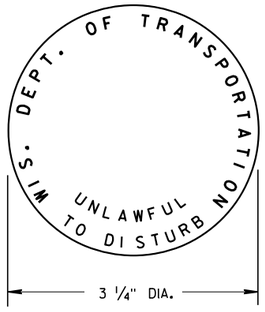


CAST-IN-PLACE

PRECAST

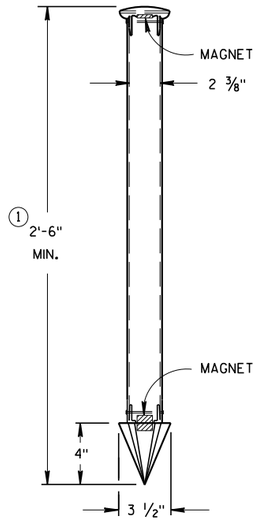
CONCRETE MONUMENTS

TYPE A



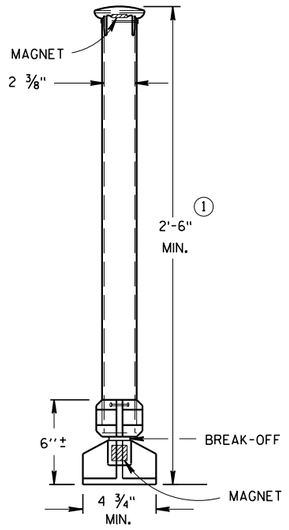
② **WIS DOT MONUMENT MARKER LOGO**

FOR TYPES "A", "C", & "D"



TYPE C

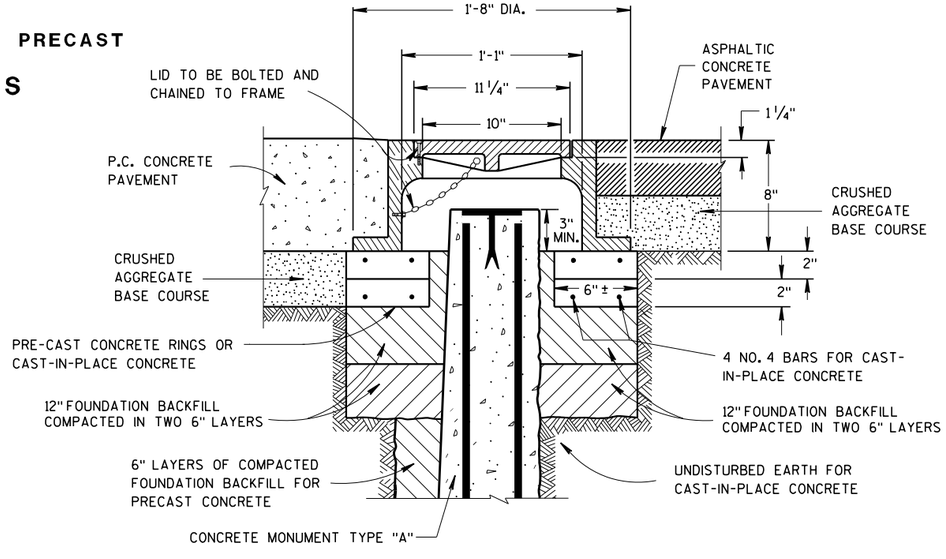
DRIVE-IN MONUMENT



TYPE D
NON-DRIVEN
BREAK-OFF MONUMENT

ALUMINUM MONUMENTS

(INCLUDES MARKER)



CAST IRON MONUMENT COVER

(APPROXIMATE WEIGHT 95 LBS)

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.

DETAILED DRAWINGS OF PROPOSED ALTERNATE DESIGNS FOR METAL MONUMENTS OR MONUMENT COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

PERMANENT MAGNETS SHALL BE INSERTED NEAR THE TOP AND BOTTOM OF ALL ALUMINUM MONUMENTS SO THE MONUMENT CAN EASILY BE DETECTED BY A METAL DETECTOR.

THE CAST IRON MONUMENT COVER SHALL BE A "NON-ROCKING" TYPE. ADJUSTMENT OF THE COVER TO GRADE MAY BE ACCOMPLISHED BY THE USE OF MORTAR AND BRICK, OR BY EITHER PRECAST OR CAST-IN-PLACE REINFORCED CONCRETE GRADE RINGS.

MONUMENTS SHALL BE LOCATED AND PLACED AT THE DIRECTION OF THE ENGINEER.

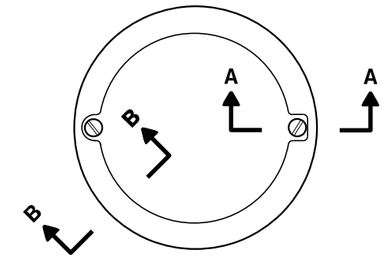
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

THE MONUMENT COVERS DETAILED ON THIS DRAWING ARE NOT EQUAL ALTERNATES. MONUMENT COVERS SHALL BE CAST IRON UNLESS ALUMINUM IS SPECIFIED ELSEWHERE IN THE CONTRACT.

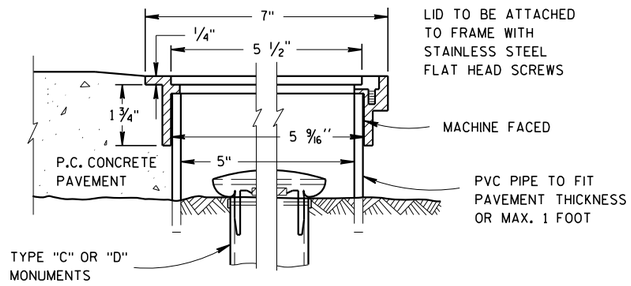
MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER

① MINIMUM LENGTH SHALL BE 4'-0" FOR MONUMENTS INSTALLED IN PAVED AREAS.

② AN OFFICIAL COUNTY MONUMENT MARKER SUPPLIED BY A COUNTY MAY BE REQUIRED FOR SOME SECTION CORNERS AND WITNESS MONUMENTS INSTEAD OF THIS WIS DOT MARKER.



TOP VIEW



SECTION B-B SECTION A-A

ALUMINUM MONUMENT COVER

(APPROXIMATE WEIGHT 2 LBS)
(FOR CONCRETE PAVEMENT ONLY)

LANDMARK REFERENCE MONUMENTS AND COVERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Raymond A. Kumagai — CHIEF SURVEYING AND MAPPING ENGINEER
FHWA

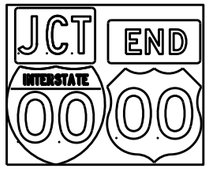
6

S.D.D. 16 A 1-7

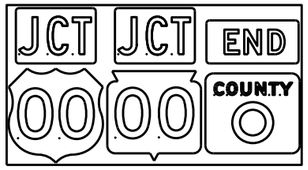
TYPICAL ASSEMBLIES



J1-1



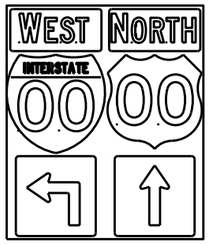
J1-2



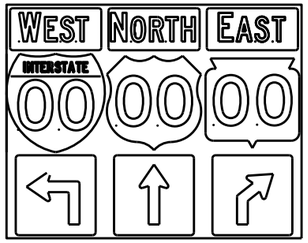
J1-3



J2-1



J2-2

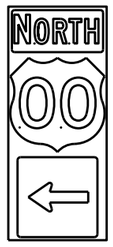


J2-3

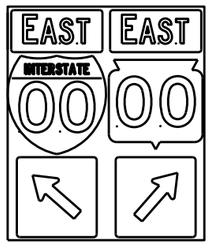


JV

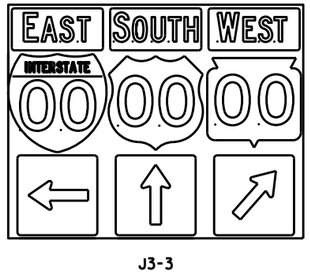
(Typical Vertical J-Assembly
See Note 10 and 11)



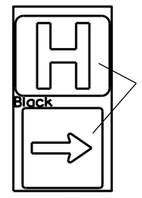
J3-1



J3-2



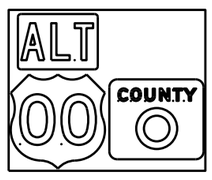
J3-3



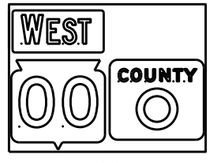
JH-1



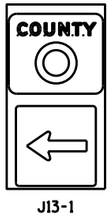
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1

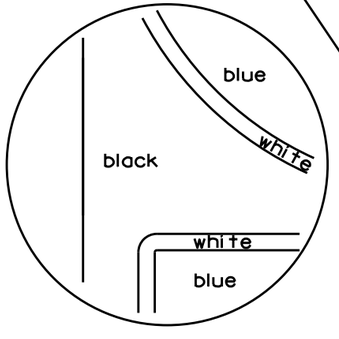


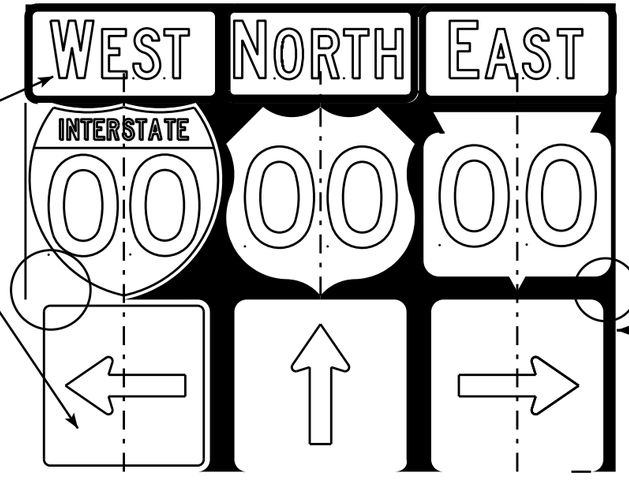
J23-1

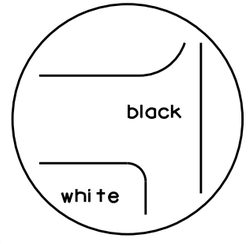


J22-1

[blue background with interstate]







[black background]

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

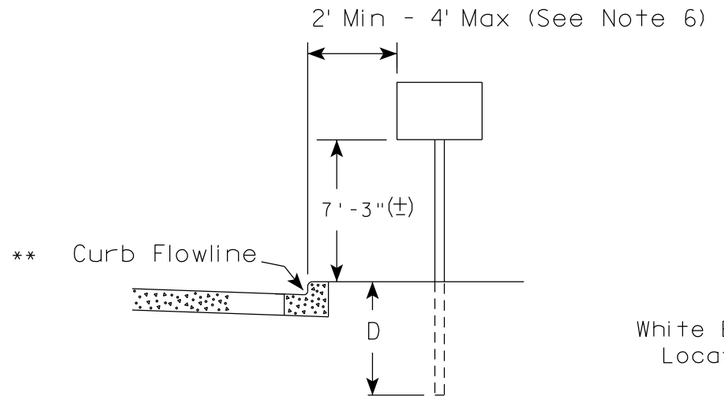
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/06/14 PL... A2-1S.8

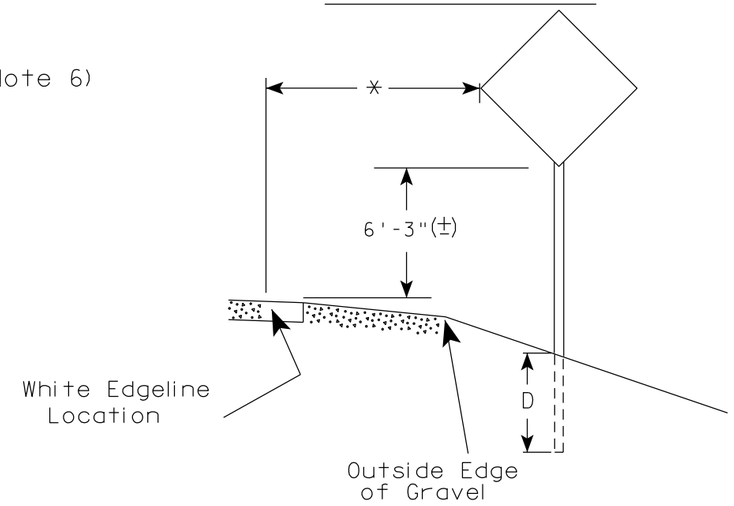
PROJECT NO: SHEET NO: E

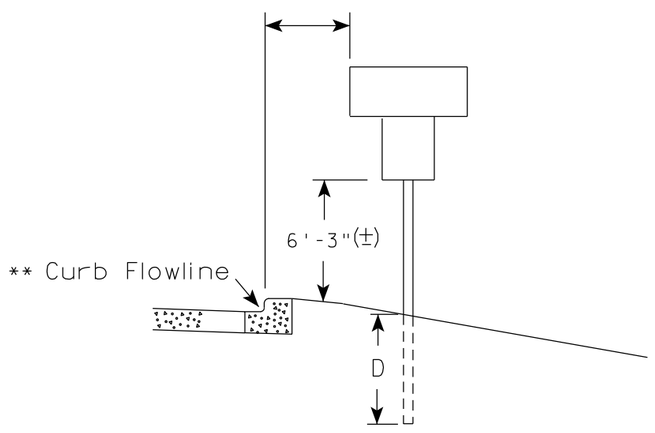
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A21S.DGN PLOT DATE : 06-FEB-2014 14:10 PLOT BY : mscsja PLOT NAME :
WISDOT/CADDS SHEET 42

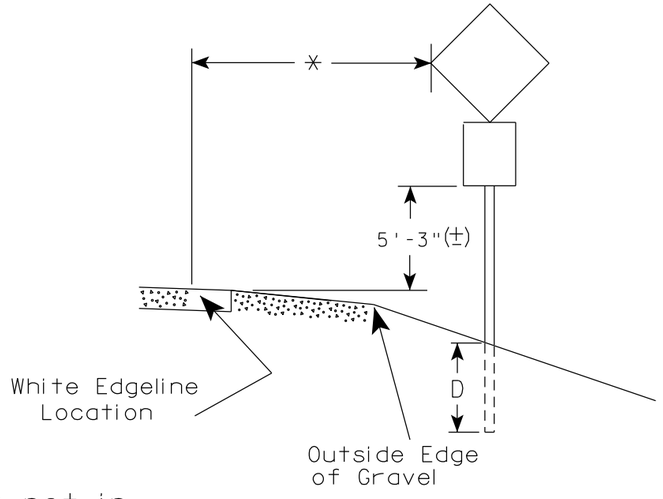
URBAN AREA



RURAL AREA (See Note 2)







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

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

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq.Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.
   The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. The (±) tolerance for mounting height is 3 inches.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.

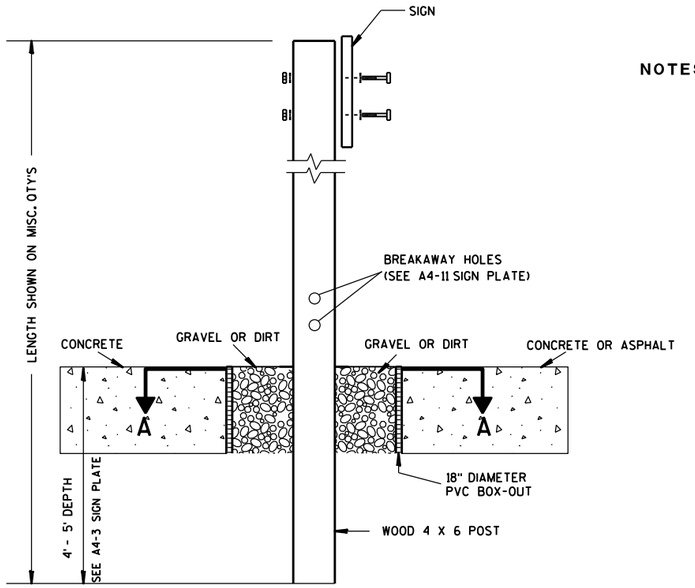
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

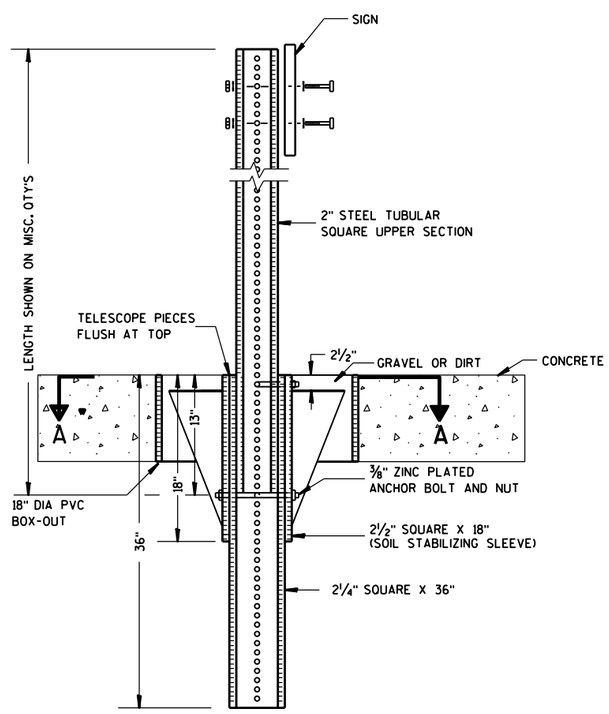
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 580	E



ELEVATION VIEW

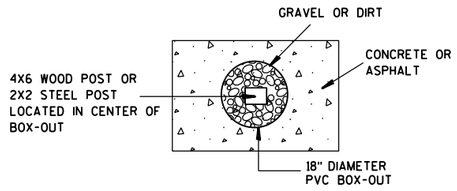
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

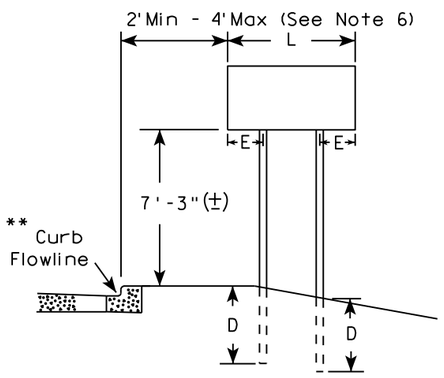
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

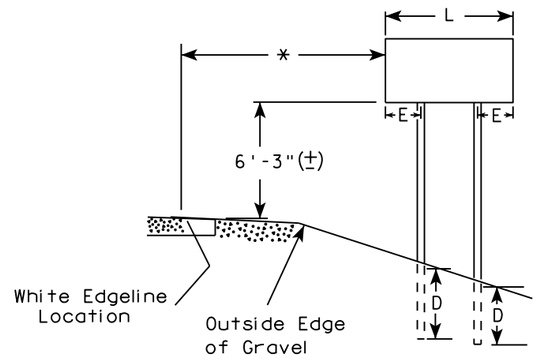
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

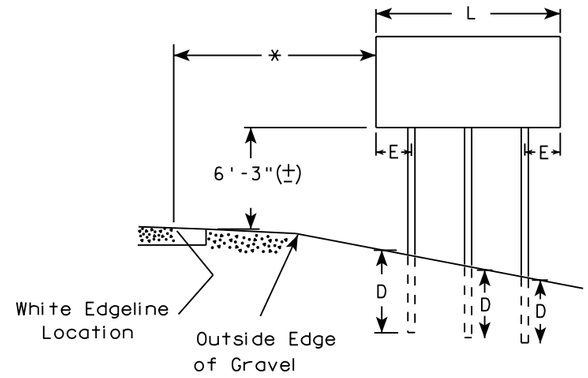
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

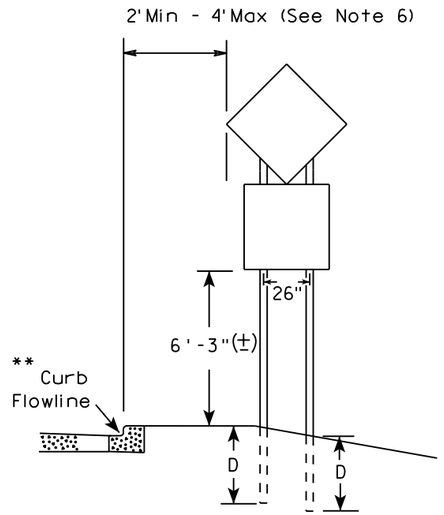
URBAN AREA



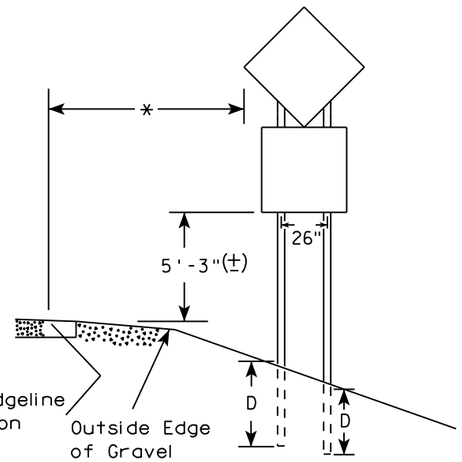
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)		
	L	E
***	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

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

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

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

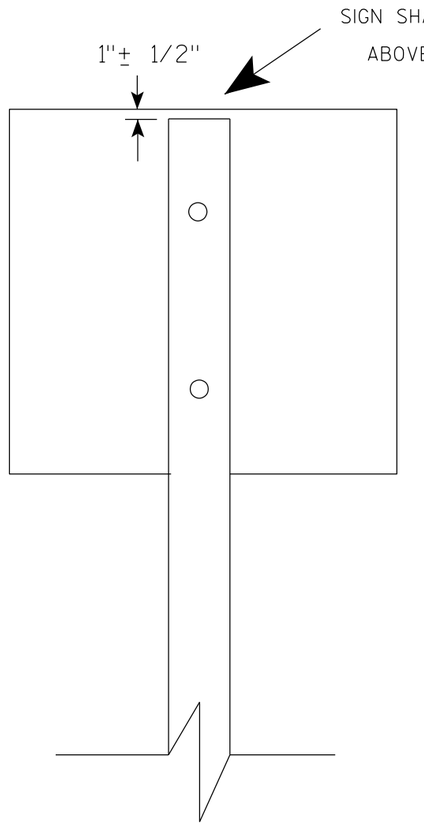
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

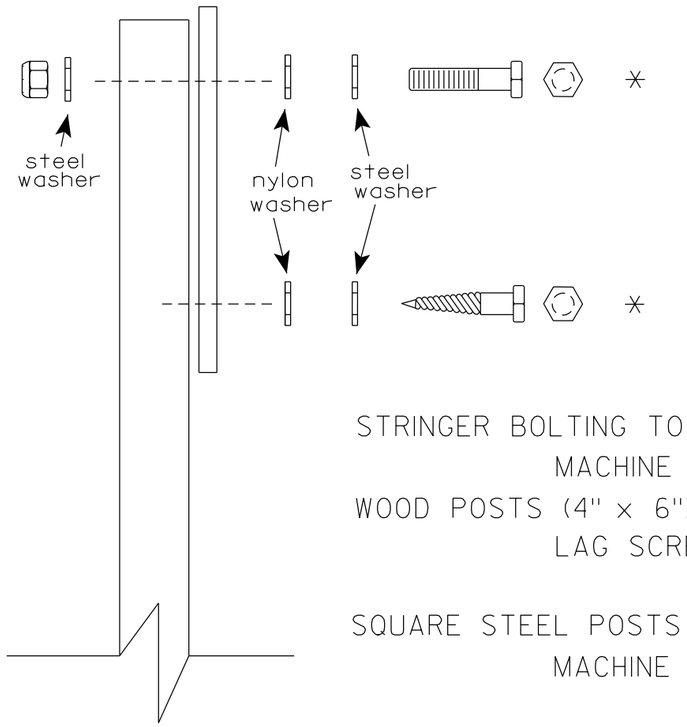
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 582	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

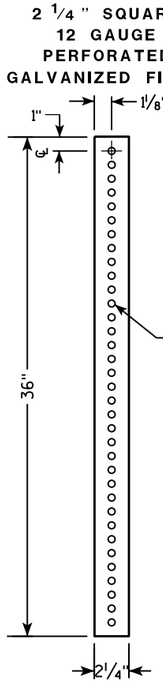
DATE 4/1/2020 PLATE NO. A4-8.9

PROJECT NO:

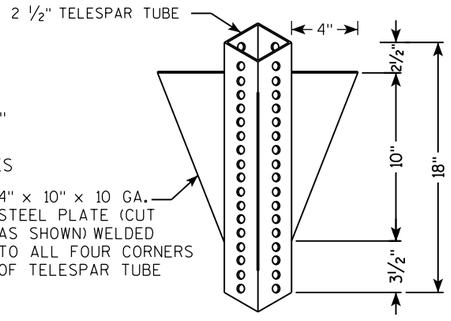
SHEET NO: 583 E

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

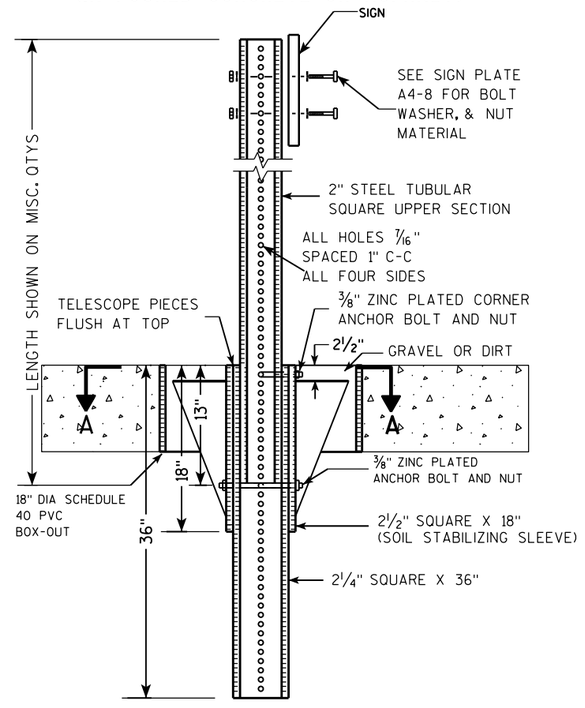
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



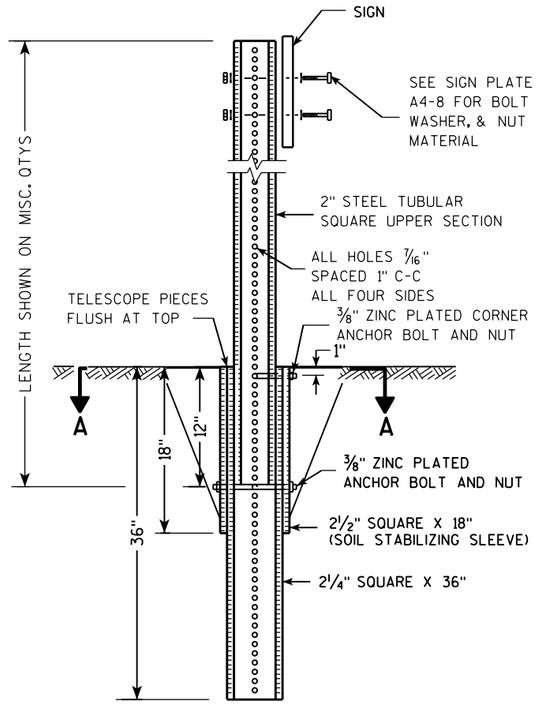
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

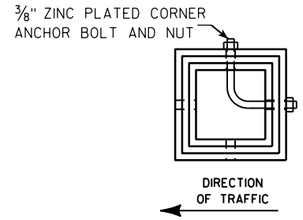


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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).

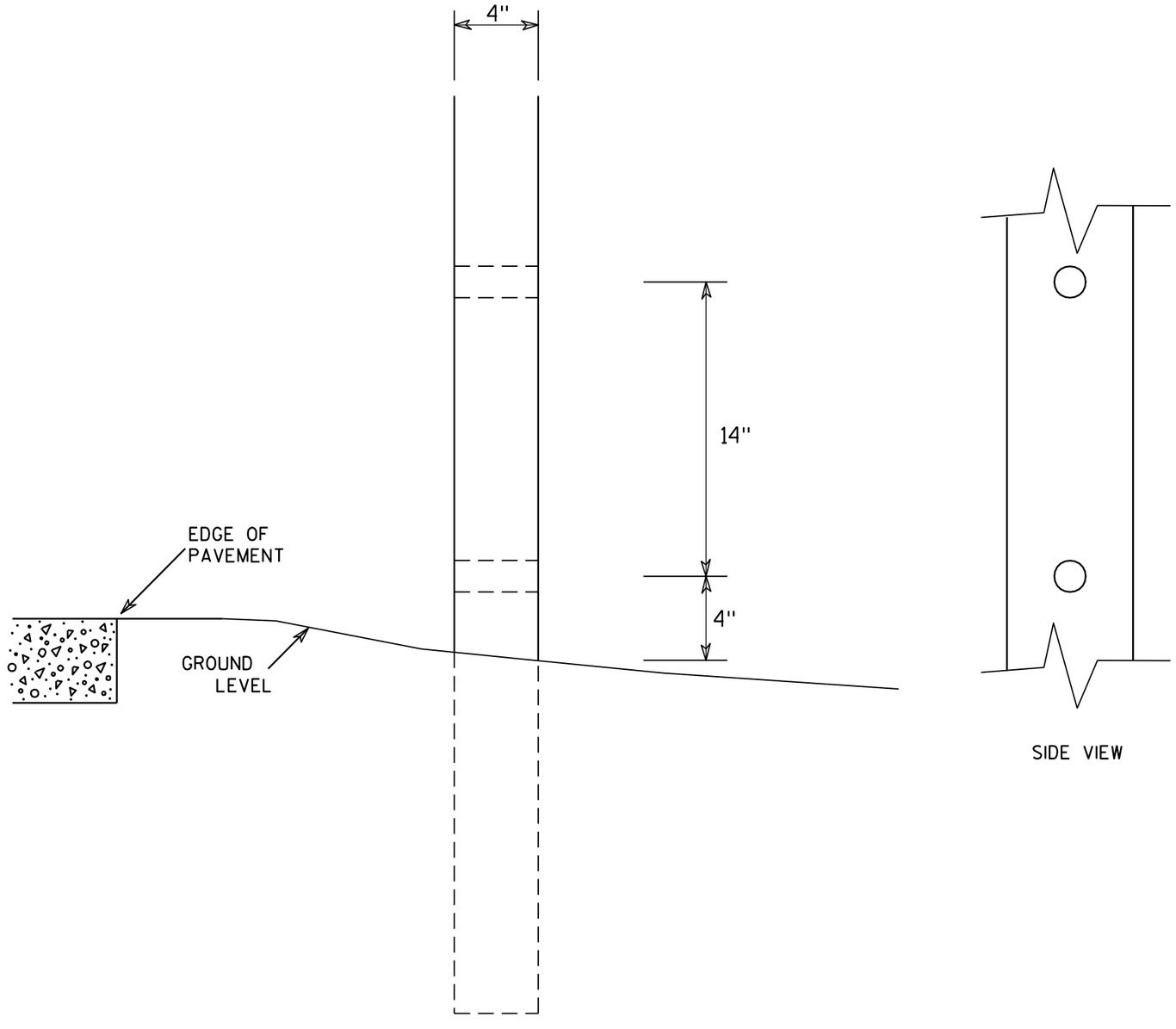
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 584 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

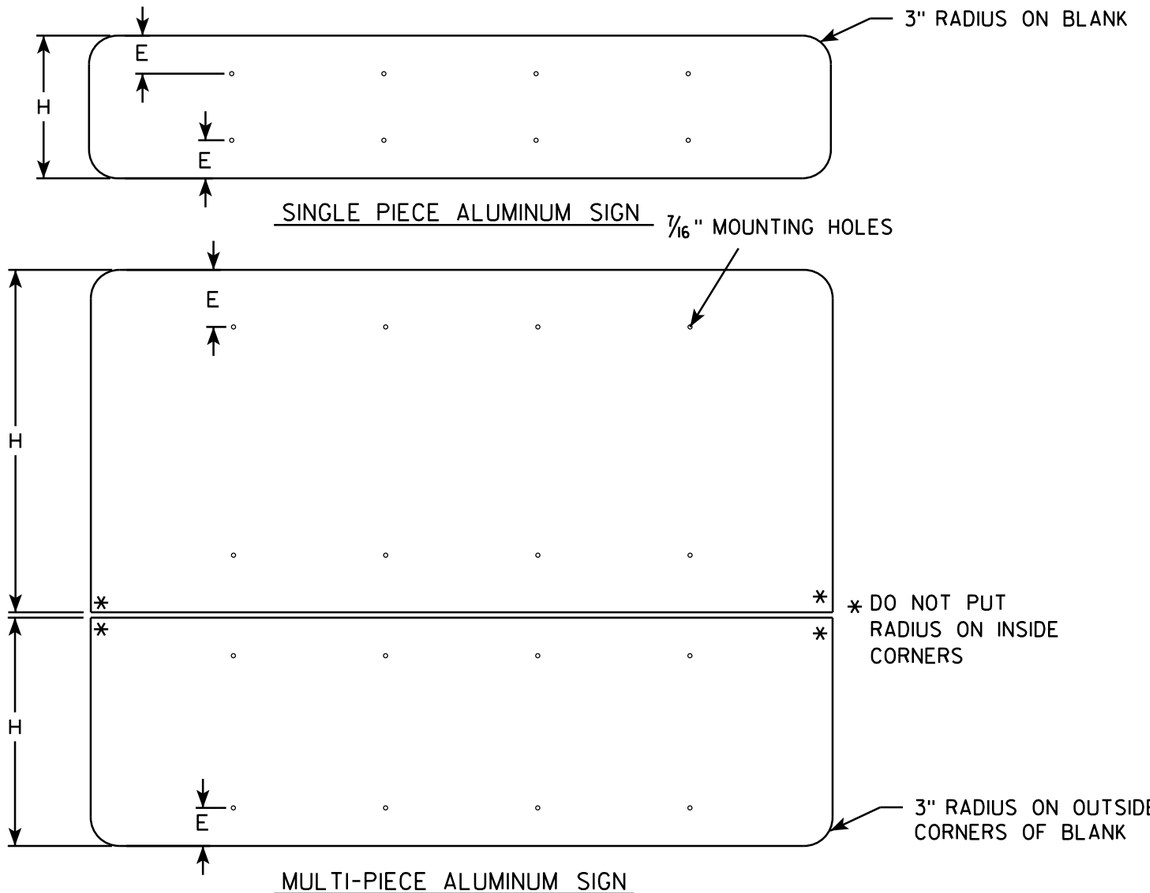
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

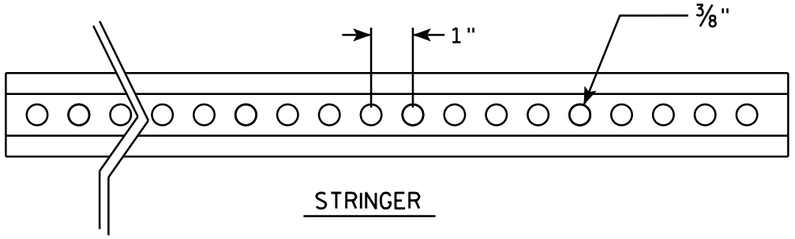
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 585	E



GENERAL NOTES

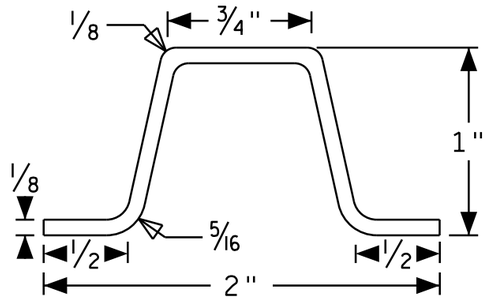
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING	MOUNTING HOLES
78"	72"	2	16"	15" 31" 47" 63"
84"	72"	2	17"	16½" 33½" 50½" 67½"
90"	72"	2	18"	18" 36" 54" 72"
96"	90"	2	19"	19½" 38½" 57½" 76½"
102"	90"	2	20"	21" 41" 61" 81"
108"	90"	2	21"	22½" 43½" 64½" 85½"
114"	108"	3	15"	12" 27" 42" 57" 72" 87" 102"
120"	108"	3	16"	12" 28" 44" 60" 76" 92" 108"
126"	108"	3	17"	12" 29" 46" 63" 80" 97" 114"
132"	126"	3	18"	12" 30" 48" 66" 84" 102" 120"
138"	126"	3	19"	12" 31" 50" 69" 88" 107" 126"
144"	126"	3	20"	12" 32" 52" 72" 92" 112" 132"

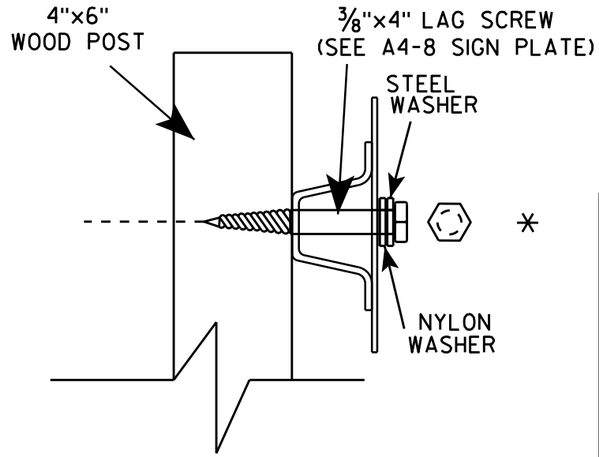


STRINGER

CROSS SECTION VIEW OF CHANNEL



POST MOUNTING



SIGN STRINGER MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

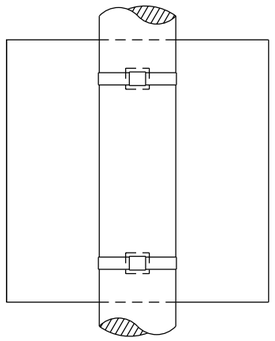
DATE 4/26/16 PLATE NO A4-18.1

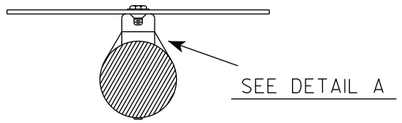
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

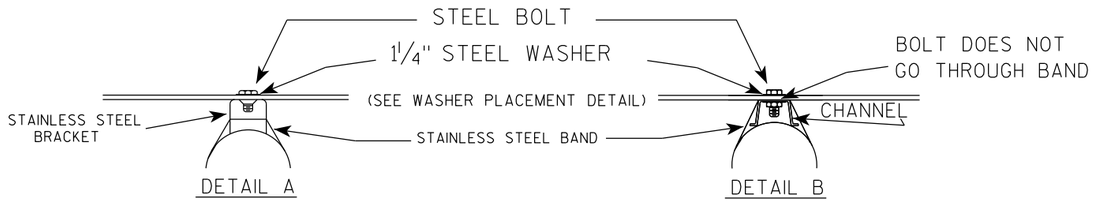
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A418.dgn PLOT DATE : 27-APR-2016 13:56 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 41.805205:1.000000 WISDOT/CADDS SHEET 42

BANDING

SINGLE SIGN



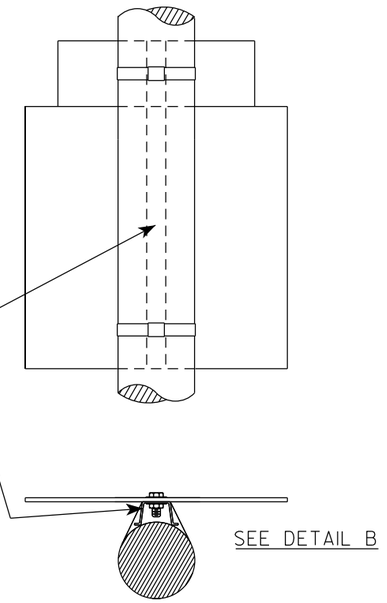




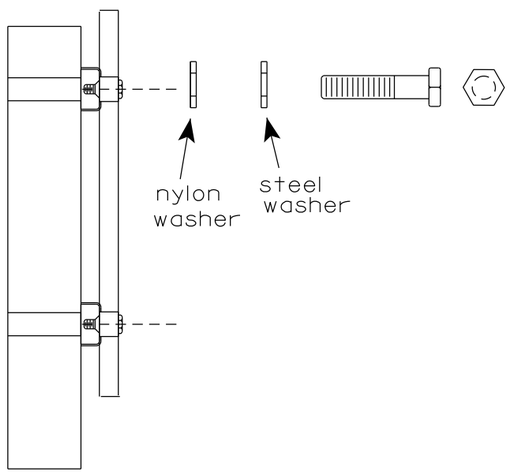
GENERAL NOTES

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



WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X ⅜" I.D. X 1/16" STEEL
1-1/4" O.D. X ⅜" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

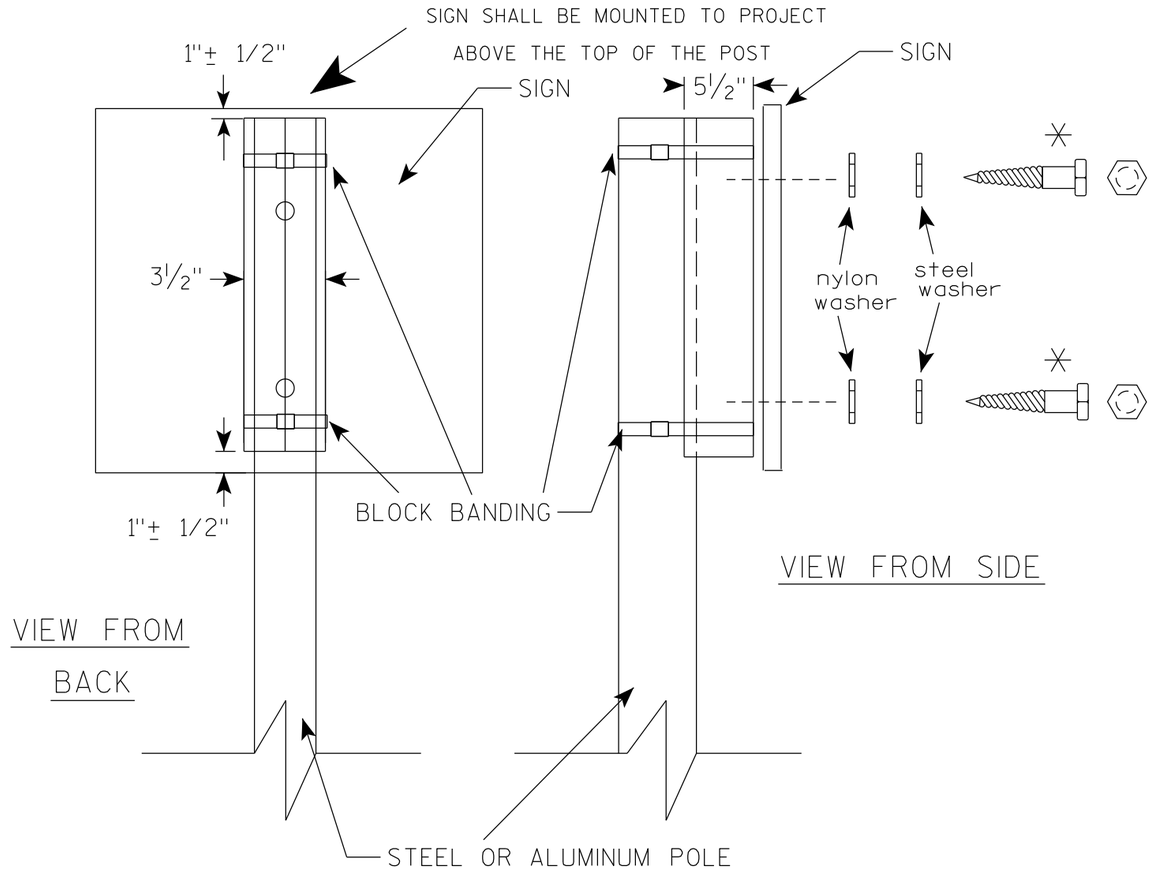
DATE 6/10/19 PLATE NO. A5-9.4

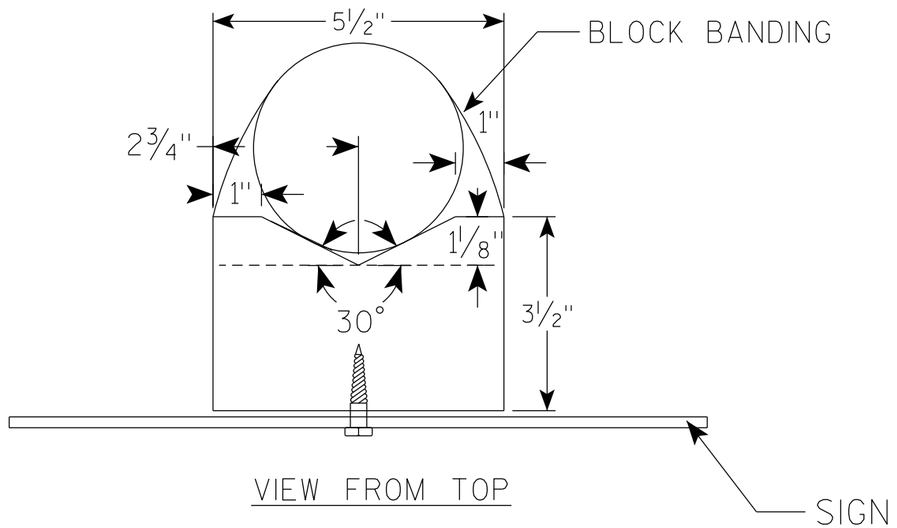
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 587	E

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"

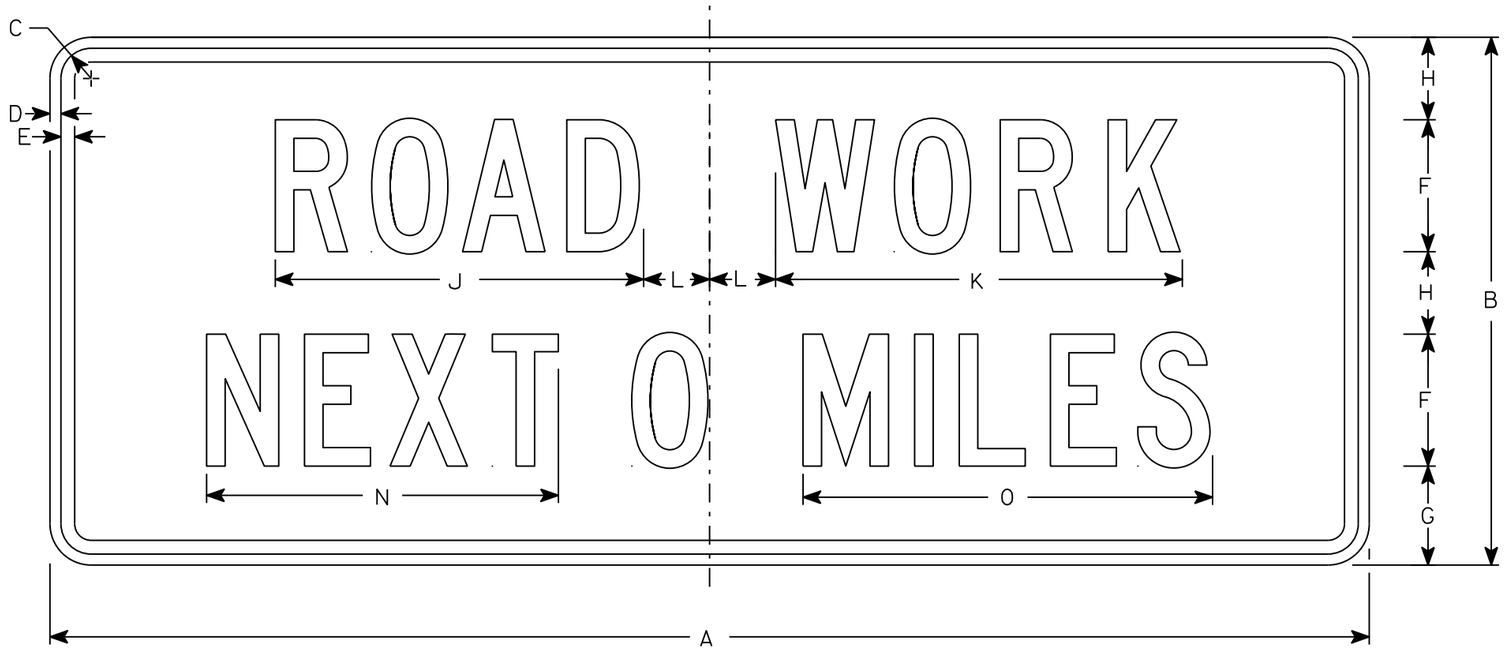
BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 6/10/19 PLATE NO. A5-10.2

PROJECT NO: | SHEET NO: 588 | E



G20-1

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Round distance to nearest whole Mile and substitute appropriate numerals and optically adjust spacing to achieve proper balance

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18 5/8												10
3																											
4	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18 5/8												10
5																											

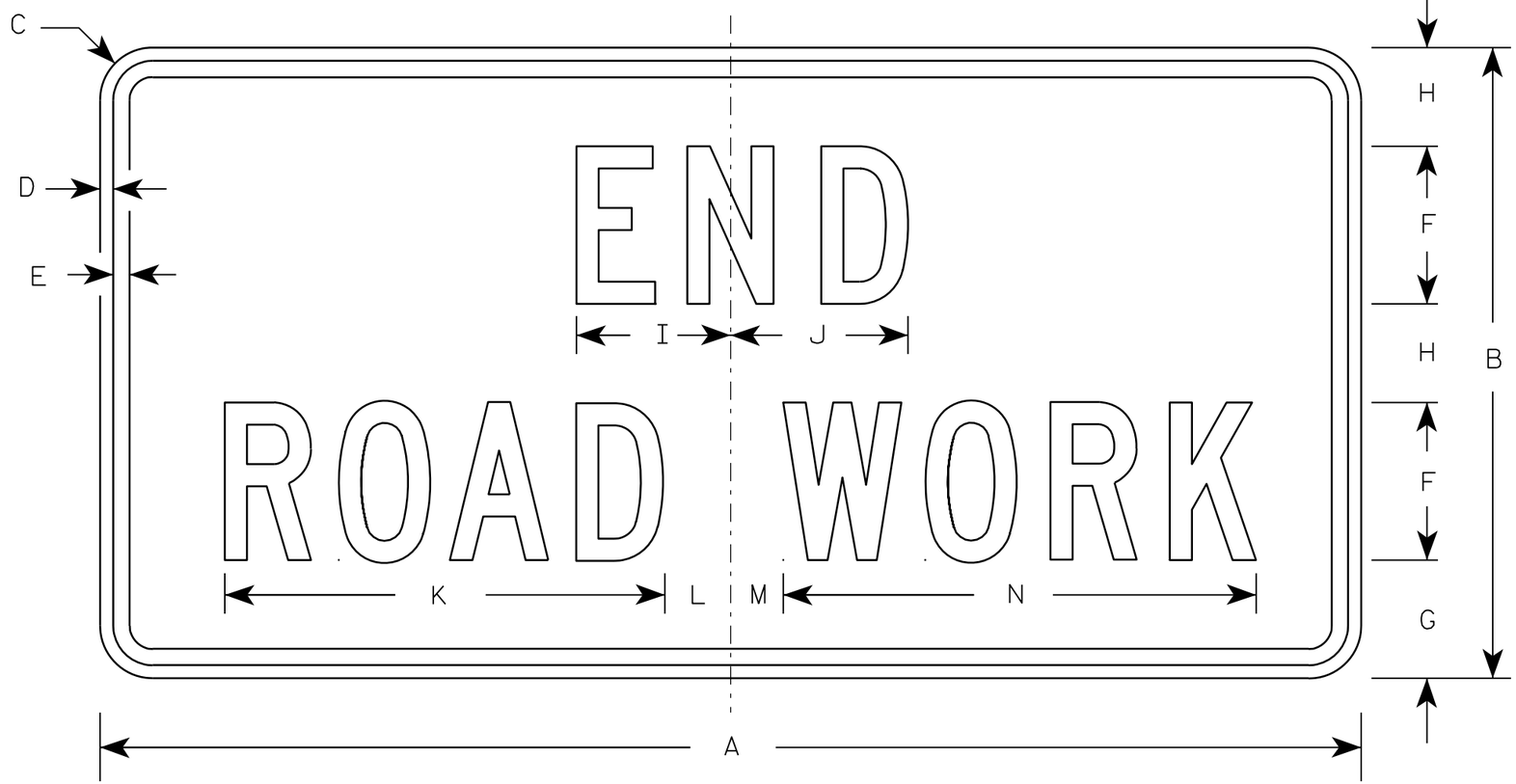
STANDARD SIGN
G20-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/14/17 PLATE NO. G20-1.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 589 | E



G20-2A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

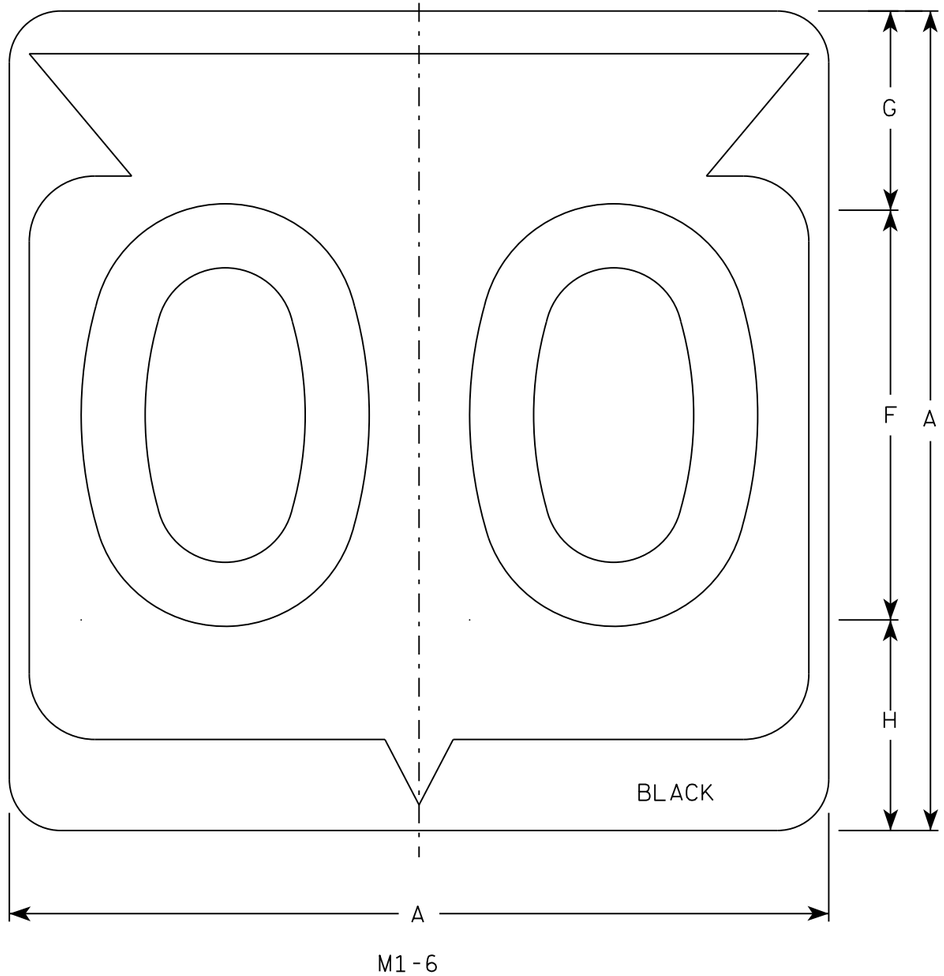
STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

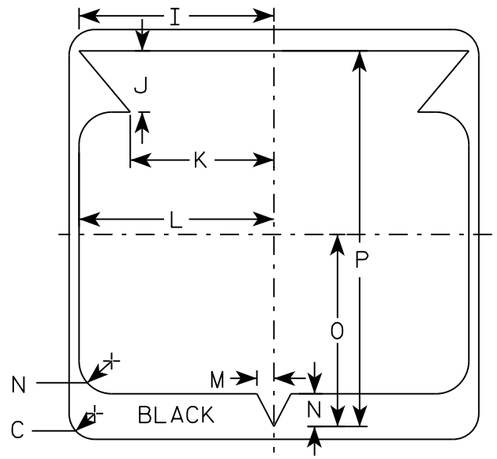
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 590	E



M1-6

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D except 3 number signs Series C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0

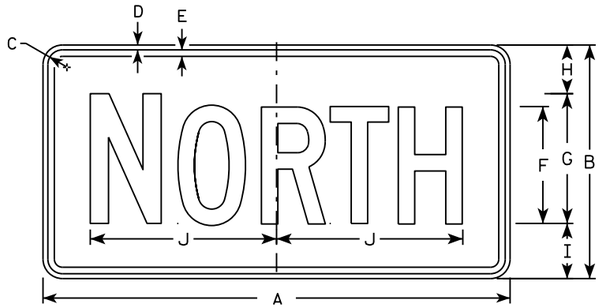
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

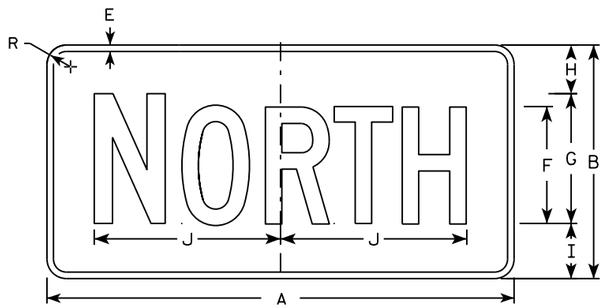
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/16/18 PLATE NO. M1-6.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 591	E



M3-1
MM3-1
MP3-1



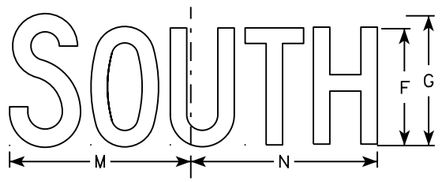
MB3-1
MK3-1
MN3-1



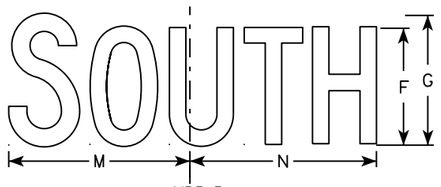
M3-2
MM3-2
MP3-2



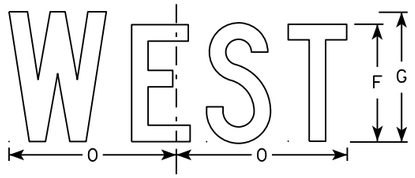
MB3-2
MK3-2
MN3-2



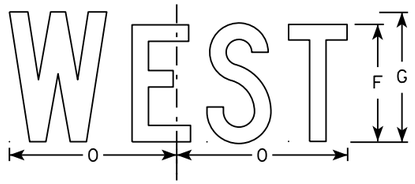
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

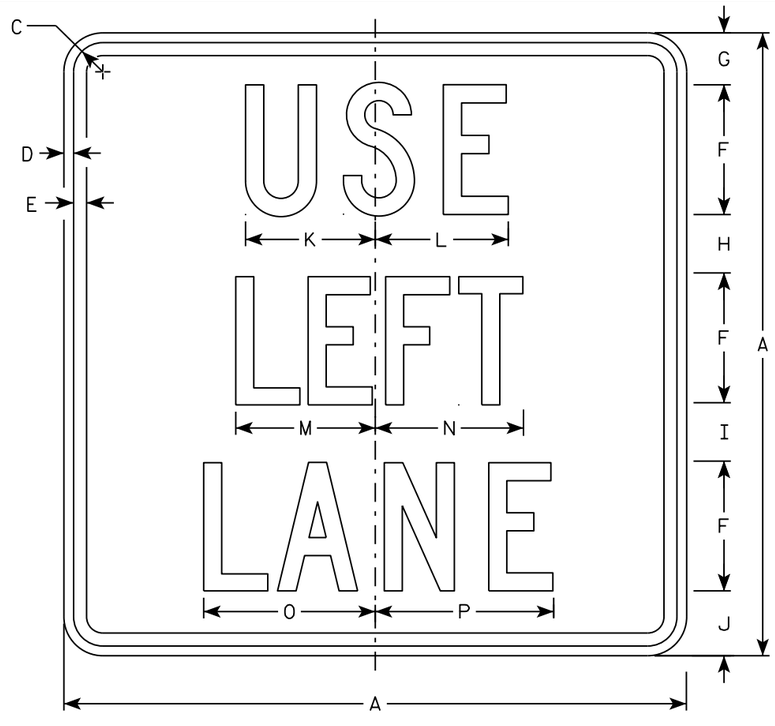
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

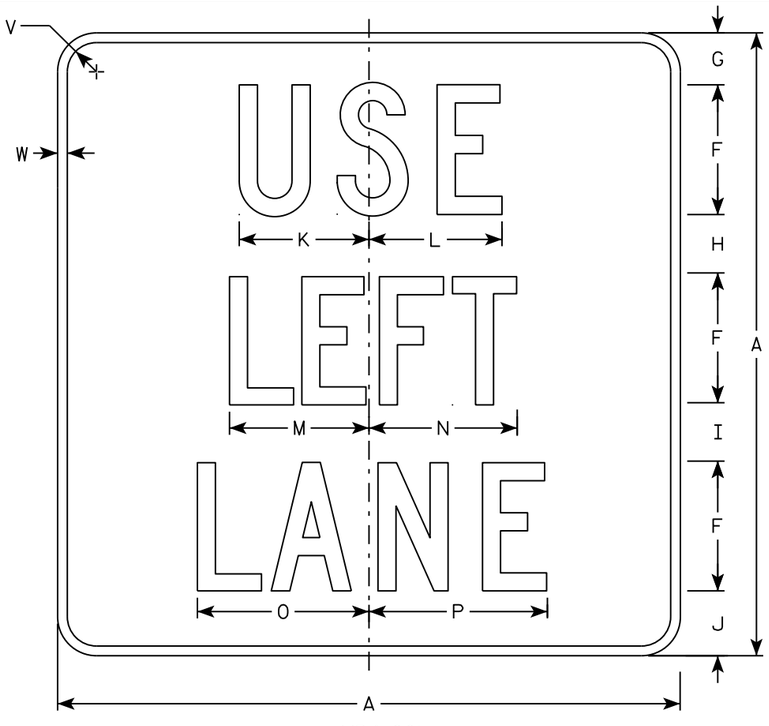
DATE 10/15/15 PLATE NO M3-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



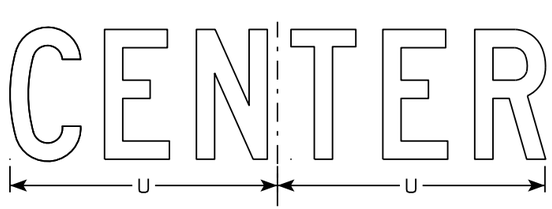
M4-20L



MB4-20L

M4-20L
MM4-20L
M04-20L
MP4-20L

MB4-20L
MK4-20L
MN4-20L
MR4-20L



M4-20C
MB4-20C
MK4-20C
MM4-20C
MN4-20C
M04-20C
MP4-20C
MR4-20C



M4-20R
MB4-20R
MK4-20R
MM4-20R
MN4-20R
M04-20R
MP4-20R
MR4-20R

NOTES

1. Sign is Type II - Type H except as Shown
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. M4-20 Background - White
   Message - Black
   MB4-20 Background - Blue
   Message - White
   MK4-20 Background - Green
   Message - White
   MM4-20 Background - White
   Message - Green
   MN4-20 Background - Brown
   Message - White
   M04-20 Background - Orange - Type F Reflective
   Message - Black
   MP4-20 Background - White
   Message - Blue
   MR4-20 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/8	3/8	1/2	5	2	2 1/4	2 1/4	2 1/2	5	5 1/8	5 3/8	5 3/4	6 5/8	6 7/8			7	7 5/8	10 1/4	1 1/2	1/2				4.0
3	36		1 5/8	5/8	3/4	7	4	3	3 1/2	4 1/2	7 1/2	7 3/4	8	8 5/8	9 7/8	10 1/4			10 3/8	11 3/8	14 3/8	1 7/8	1/2				9.0
4																											
5																											

STANDARD SIGN
M4-20

WISCONSIN DEPT OF TRANSPORTATION

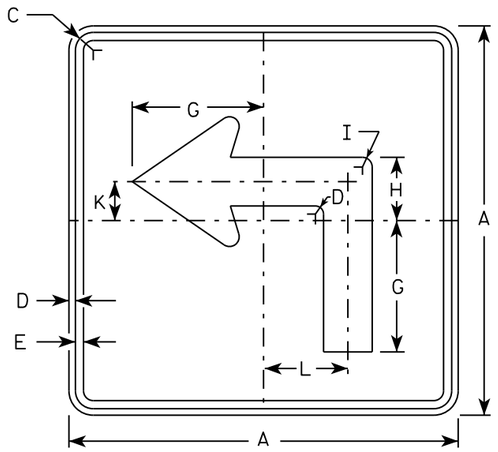
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 10/15/15 PLATE NO M4-20.5

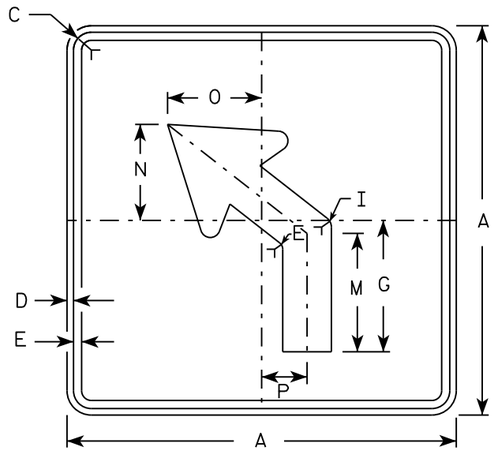
593

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

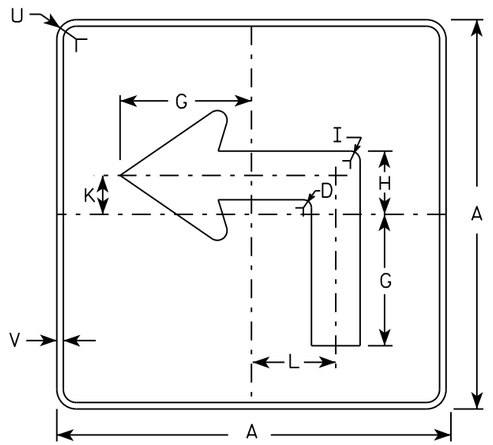
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M420.DGN PLOT DATE : 01-DEC-2015 18:03 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 5.837526:1.000000



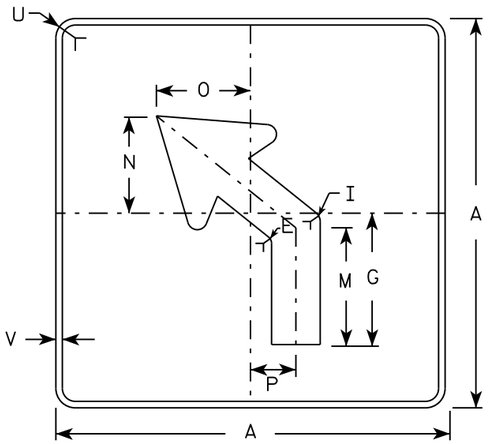
M5-1L
MM5-1L
MO5-1L
MP5-1L



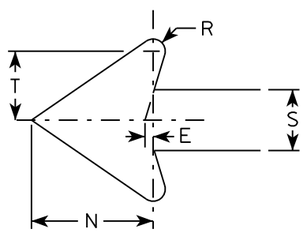
M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L



MB5-2L
MK5-2L
MN5-2L
MR5-2L



NOTES

1. Signs are Type II - Type H reflective except as shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White - Type H Reflective
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

STANDARD SIGN
M5-1 & M5-2

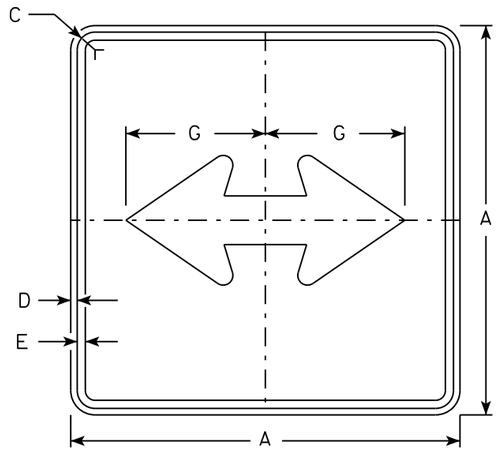
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

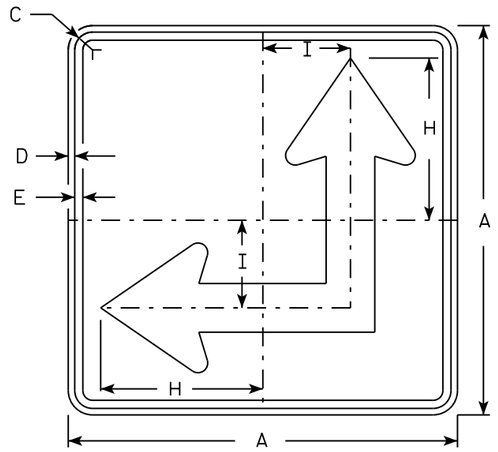
DATE 10/15/15 PLATE NO. M5-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M51.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



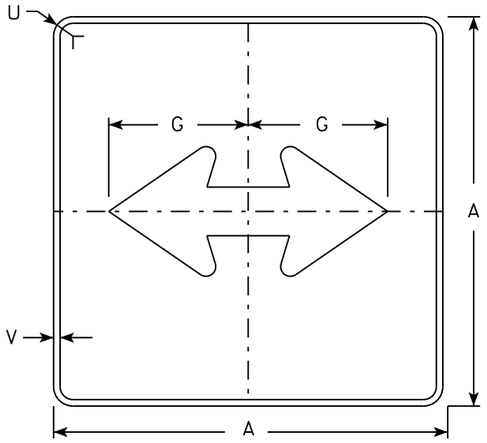
M6-4
MM6-4
MO6-4
MP6-4



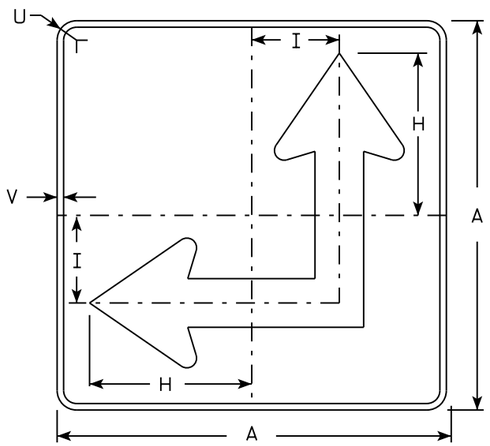
M6-6
MM6-6
MO6-6
MP6-6

NOTES

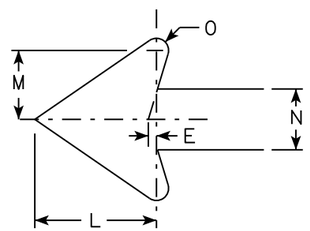
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See Note 4
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-4 and M6-6 Background - White
   Message - Black
   MB6-4 and MB6-6 Background - Blue
   Message - White
   MK6-4 and MK6-6 Background - Green
   Message - White
   MM6-4 and MM6-6 Background - White
   Message - Green
   MN6-4 and MN6-6 Background - Brown
   Message - White
   MO6-4 and MO6-6 Background - Orange - Type F Reflective
   Message - Black
   MP6-4 and MP6-6 Background - White
   Message - Blue
   MR6-4 and MR6-6 Background - Brown
   Message - Yellow
5. M6-6R same as M6-6L except arrow points ahead and right.



MB6-4
MK6-4
MN6-4
MR6-4



MB6-6
MK6-6
MN6-6
MR6-6



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25

STANDARD SIGN
M6-4 & M6-6
SERIES

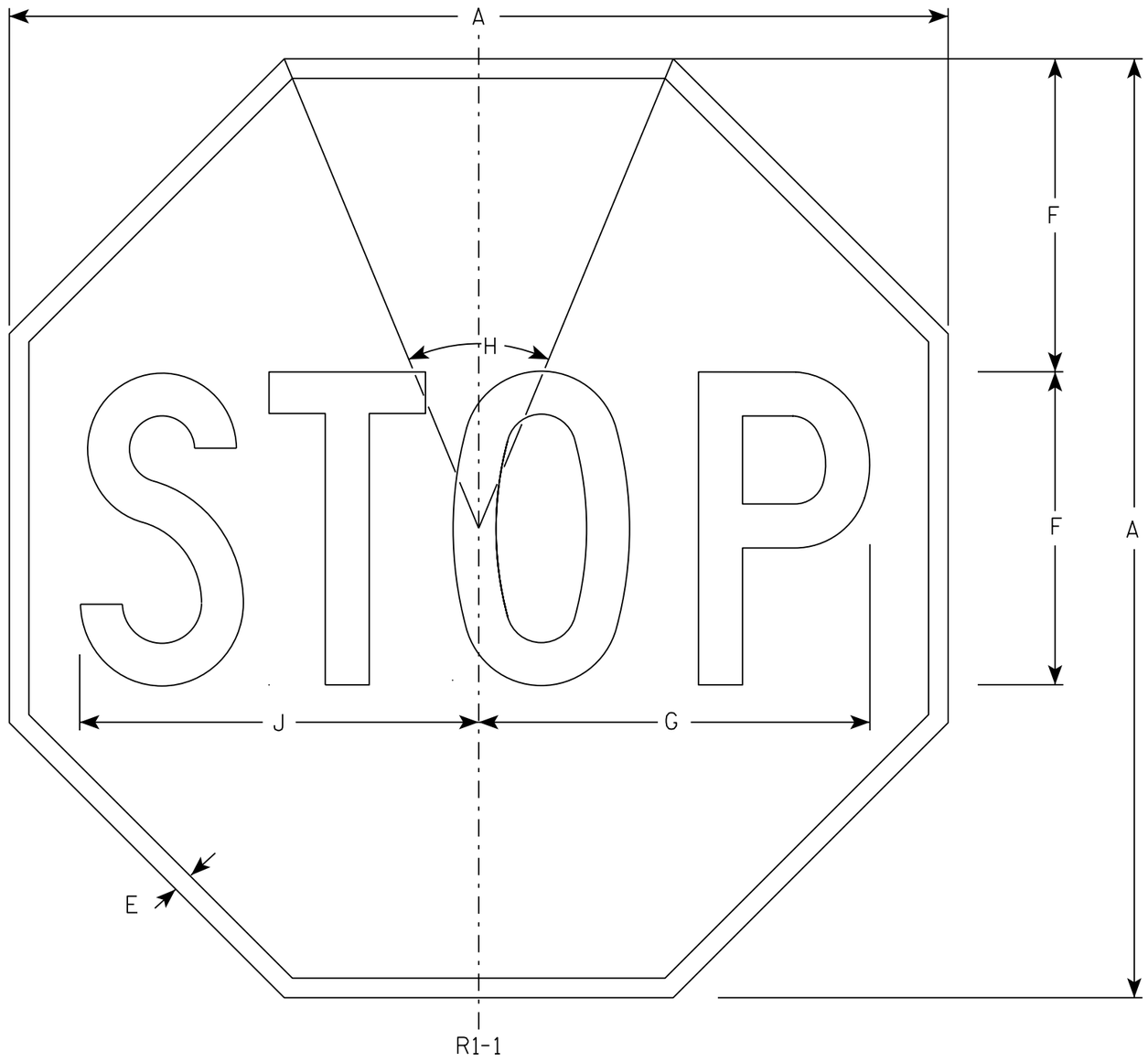
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 595 M6-4.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M64.DGN PLOT DATE : 01-DEC-2015 17:58 PLOT BY : $$ platuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

STANDARD SIGN

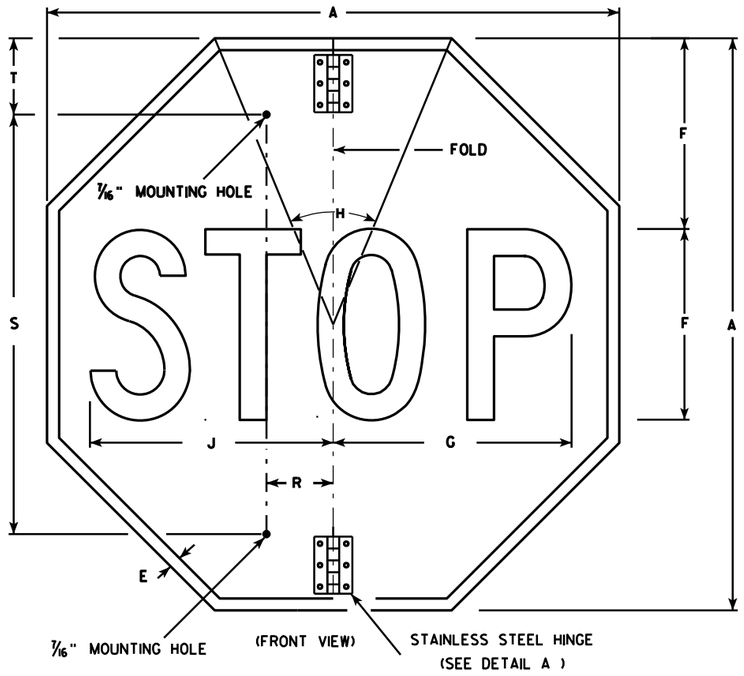
R1-1

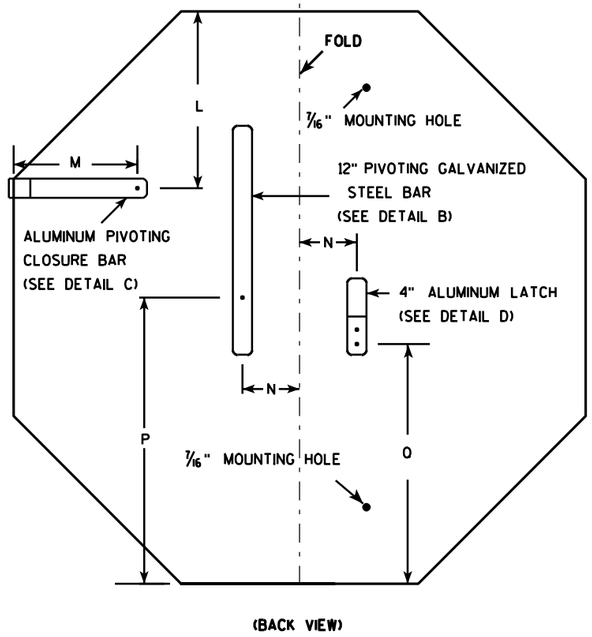
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

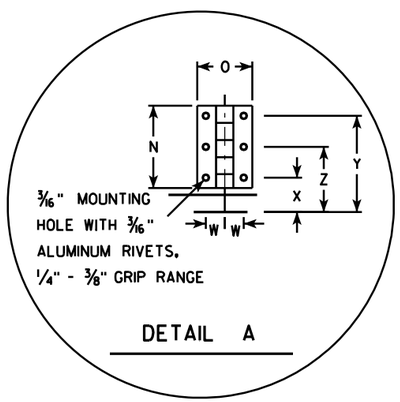
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 596	E



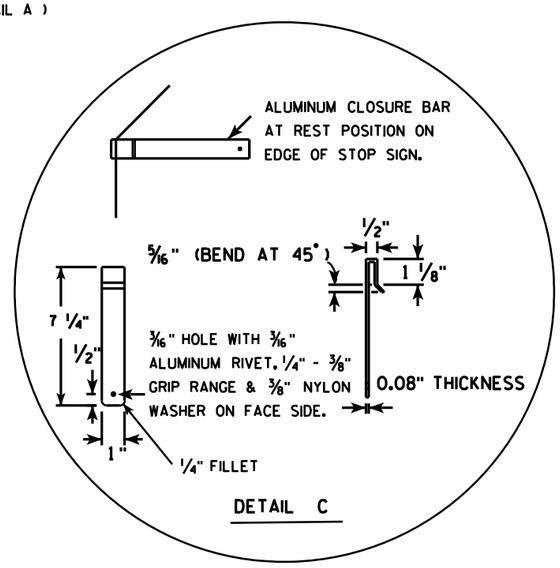


NOTES

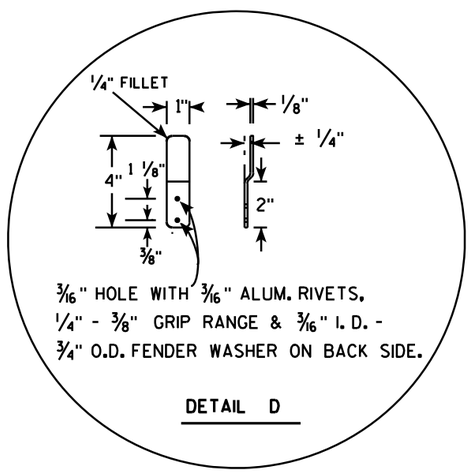
1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C
4. All hardware used on the folding STOP sign installation shall conform to 637.2.4 of the WIS DOT Standard Specification.



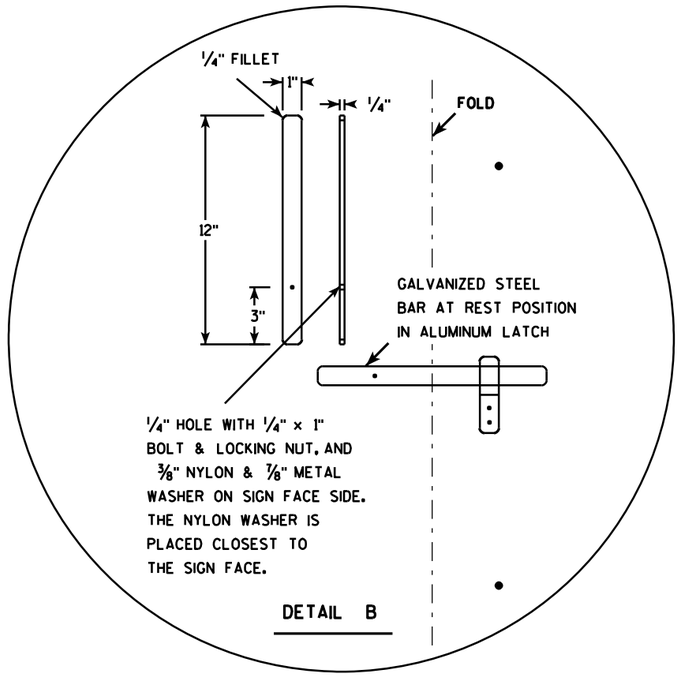
DETAIL A



DETAIL C



DETAIL D



DETAIL B

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30				5/8	10	12 1/2	45		12 3/4		9 1/4	6 1/2	3	2	15	12 3/8	2 1/2	22	5			11/16	1 1/4	3 1/2	2 3/8	5.18
2M	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
3	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
4																											
5																											

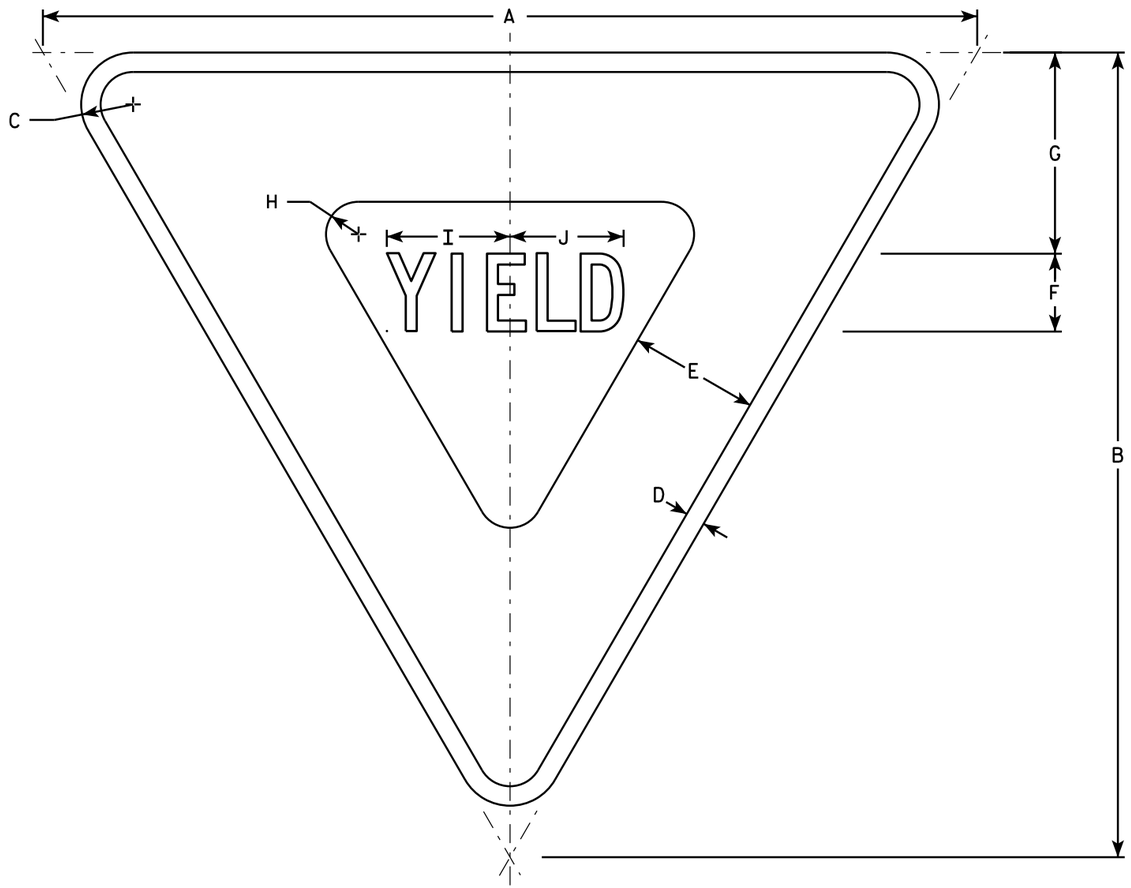
STANDARD SIGN
R1-1F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1F.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 597	E



R1-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The border strip and word message are reflectorized red.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	26	1 1/2	5/8	4	2 1/2	6 3/8	7/8	4	3 5/8																	2.71
2S	36	31	2	3/4	5	3	7 3/4	1 1/4	4 3/4	4 3/8																	3.88
2M	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
3	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
4	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
5	60	52	3	1 1/2	8	5	13	2 1/2	7 7/8	7 1/4																	10.83
6																											
7	18	15 1/2	1	3/8	2 1/2	1 1/2	3 7/8	5/8	2 3/8	2 1/4																	0.97

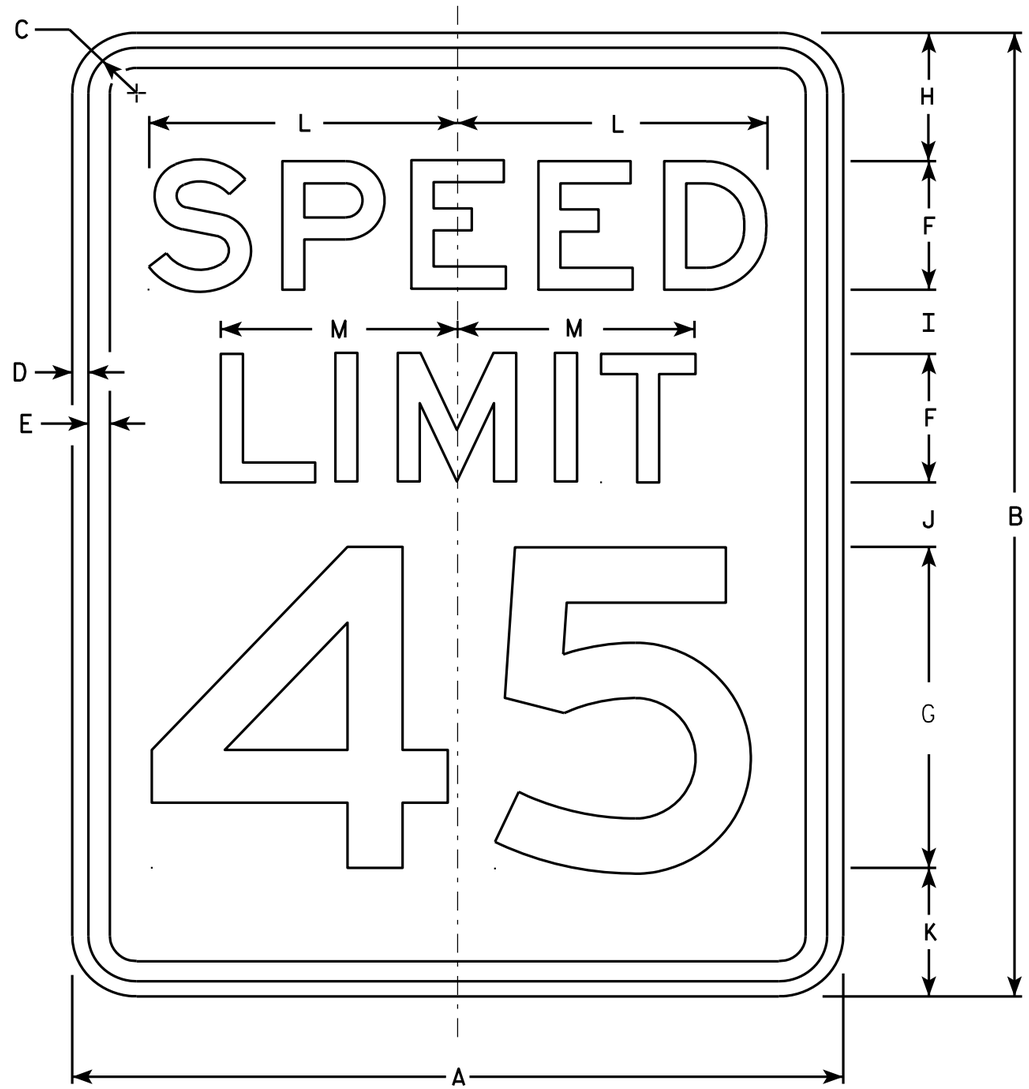
STANDARD SIGN
R1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/13/14 PLATE R1-2.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

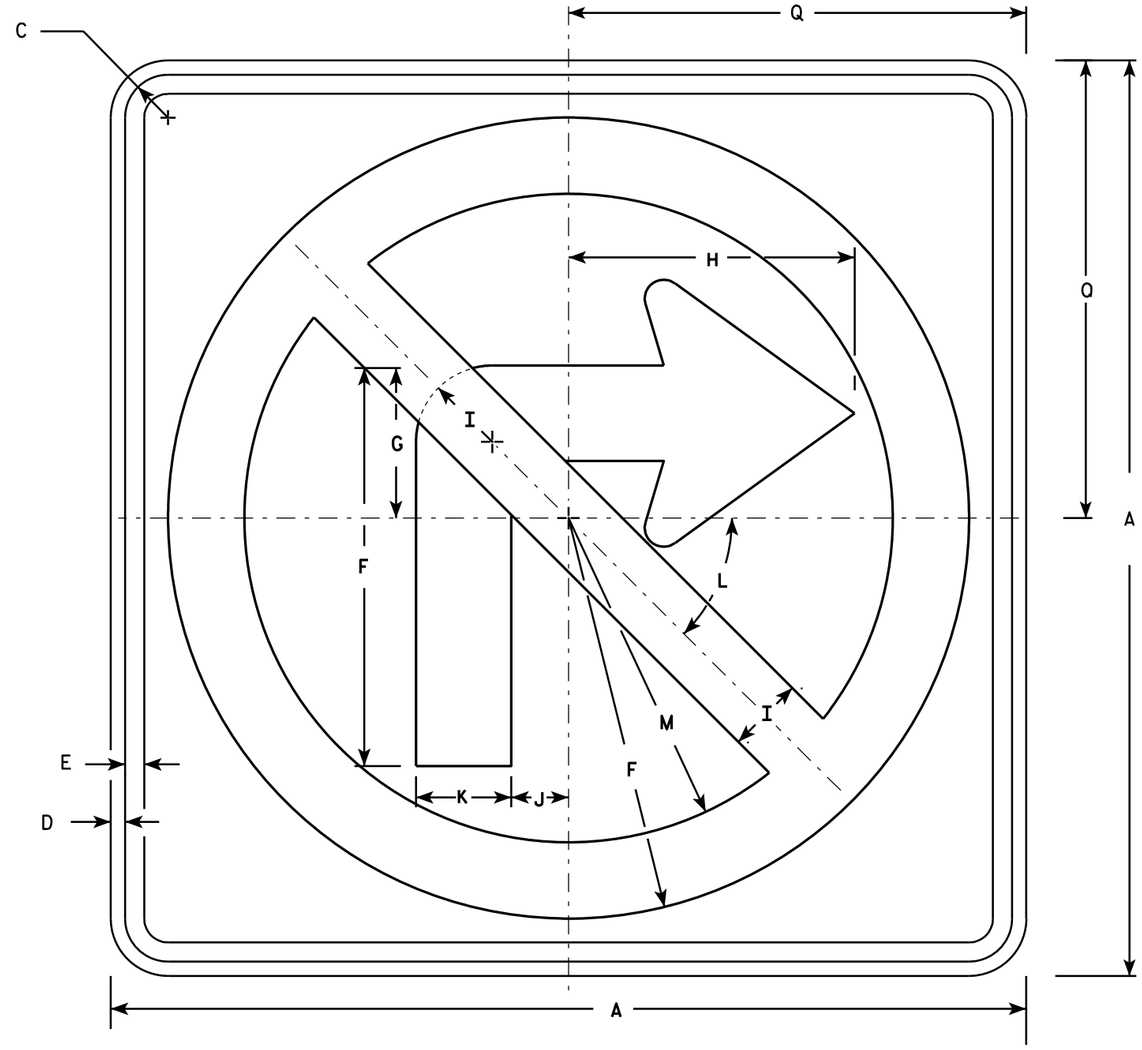
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

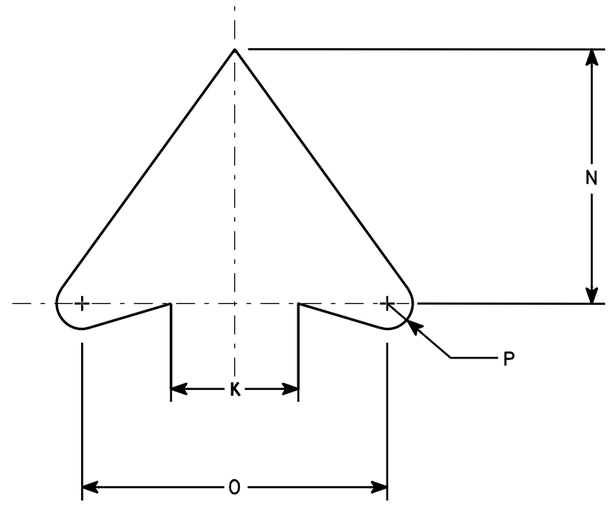
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 599 | E



R3-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45	8 1/2	5	6	1/2	12										4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2	12										4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4	18										9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1	24										16.0

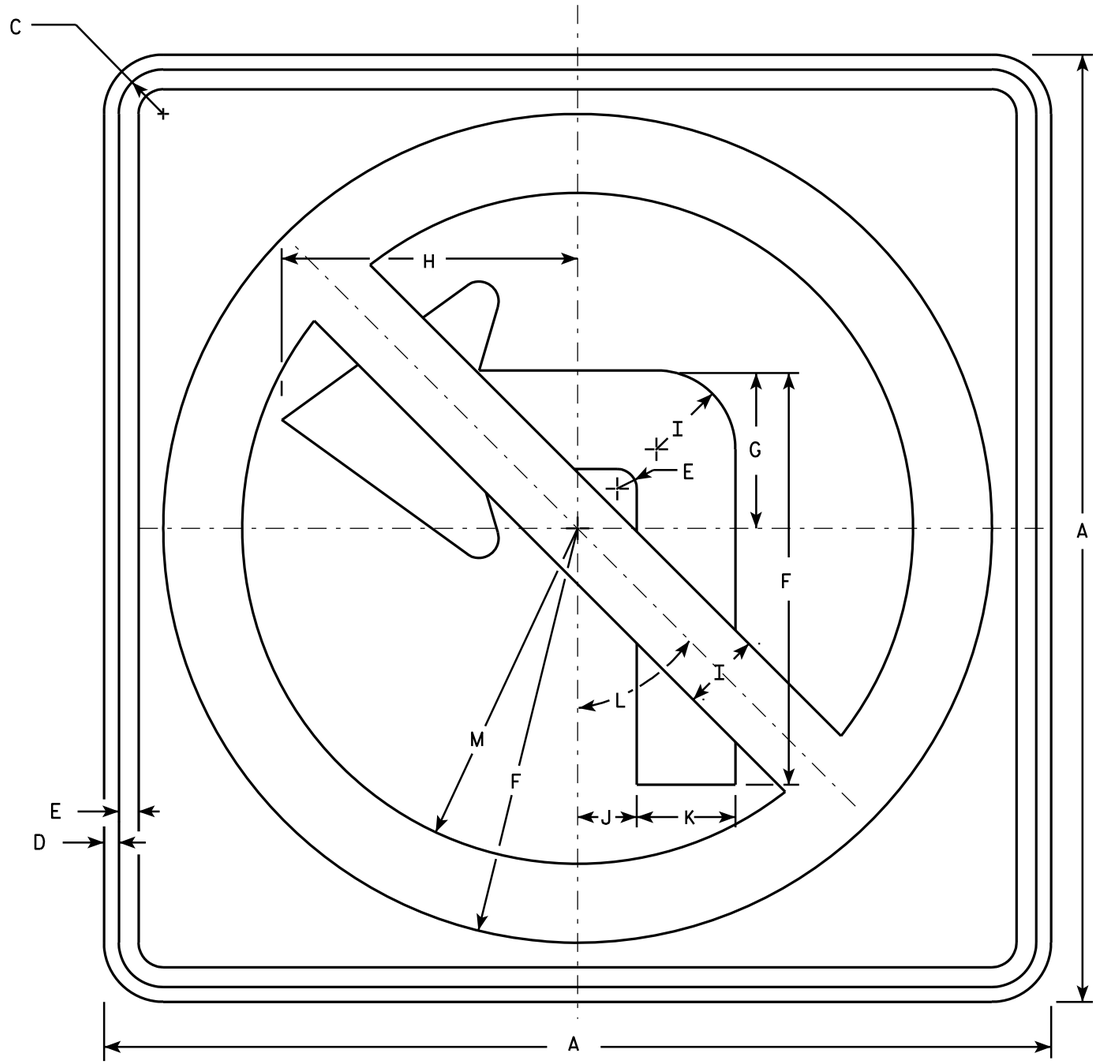
STANDARD SIGN
R3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-1.5

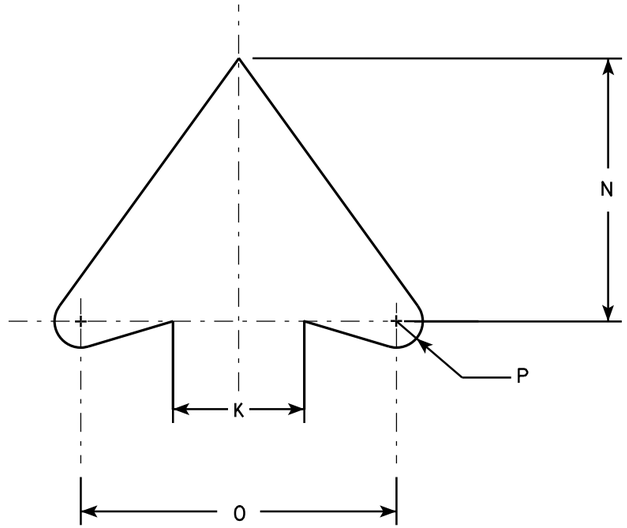
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 600	E



R3-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

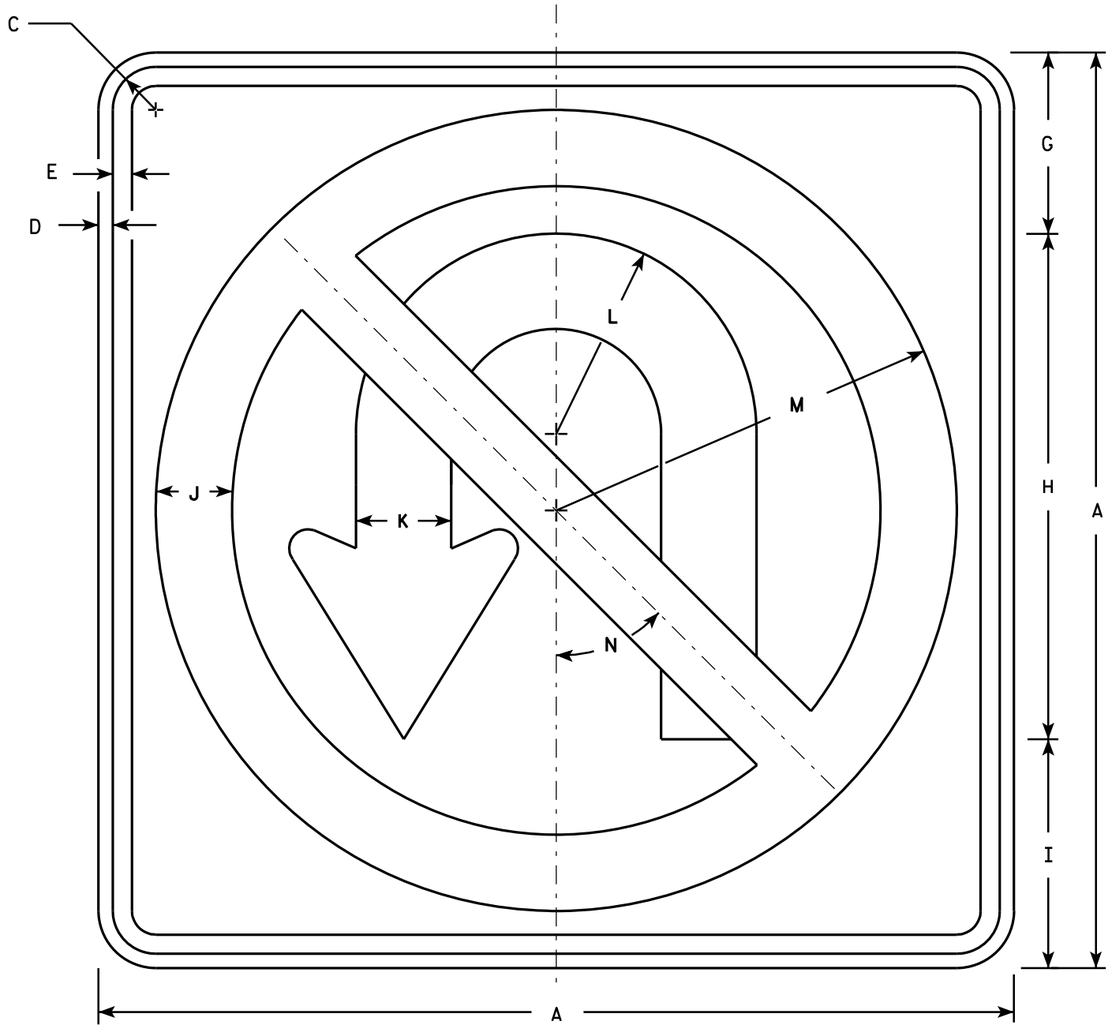
STANDARD SIGN
R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-2.10

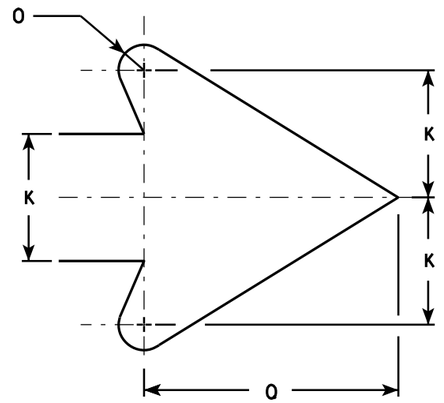
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 601	E



R3-4

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	3/8	1/2		4 3/4	13 1/4	6	2	2 1/2	5 1/4	10 1/2	45°	1/2		5										4.0
2M	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0
3	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0
4	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0
5	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0

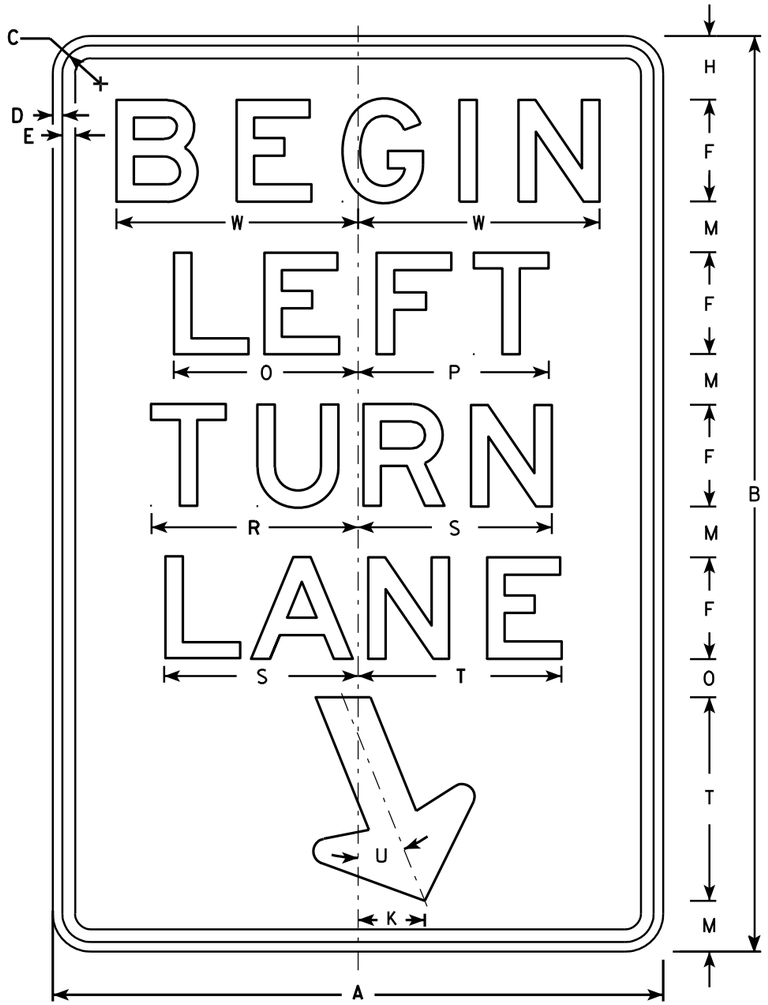
STANDARD SIGN
R3-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-4.11

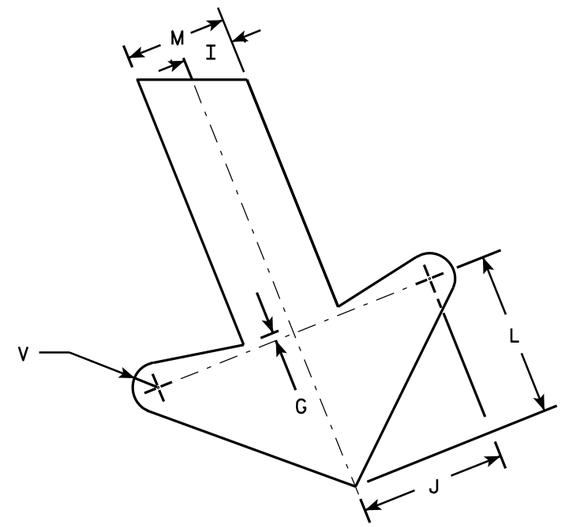
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 602	E



R3-20L

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	10 7/8	11 1/4		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

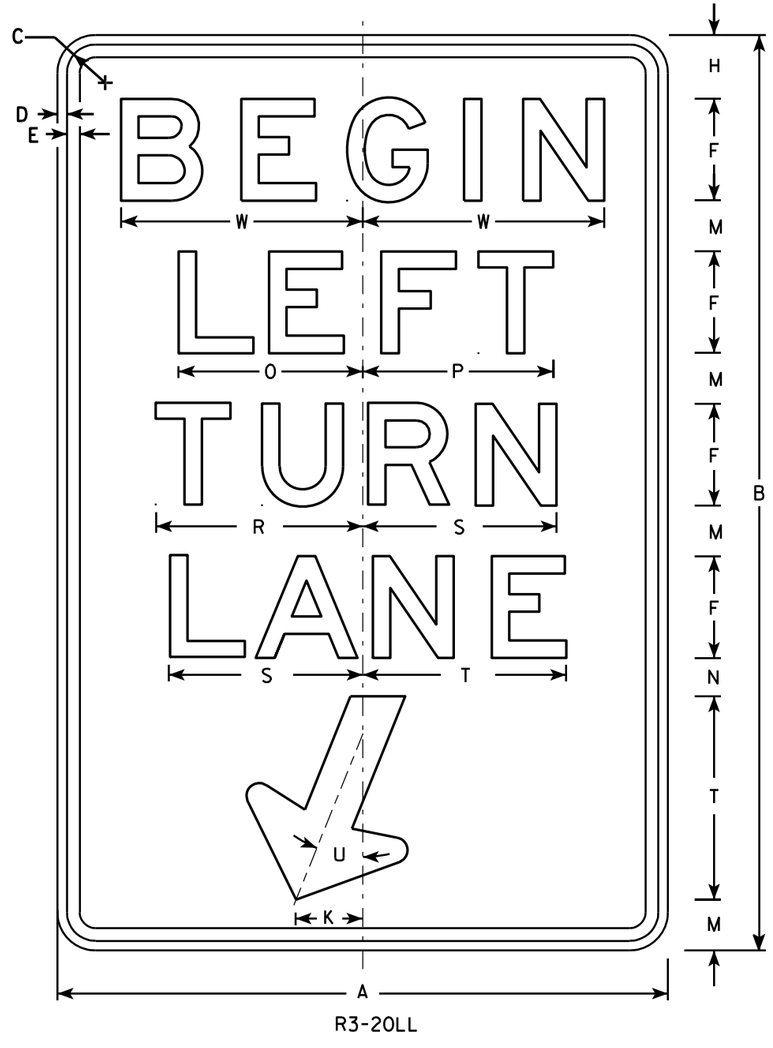
STANDARD SIGN
R3-20L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20L.7

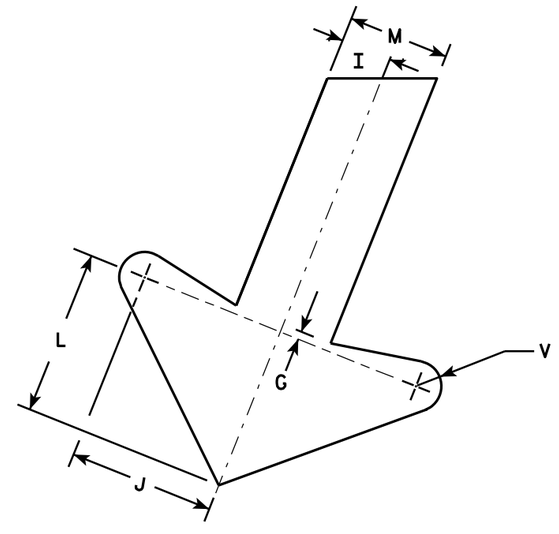
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 603 | E



R3-20LL

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	10 7/8	11 1/4		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

STANDARD SIGN
R3-20LL

WISCONSIN DEPT OF TRANSPORTATION

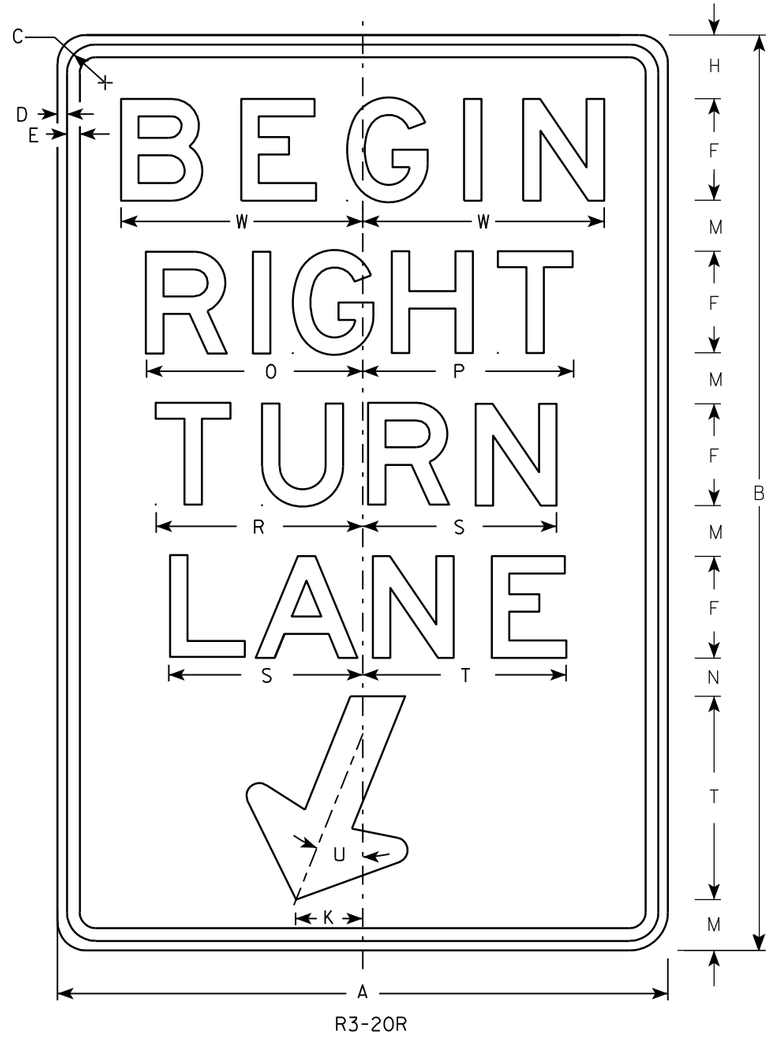
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20LL.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 604	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R320LL.DGN PLOT DATE : 15-OCT-2010 14:38 PLOT BY : dotsja PLOT NAME : PLOT SCALE : 5.959043:1.000000

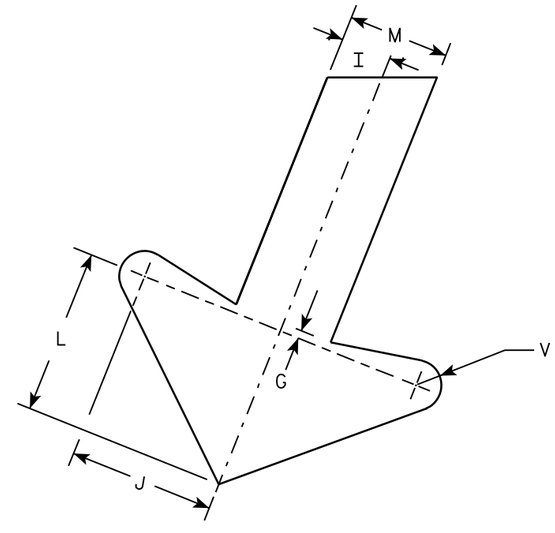
WISDOT/CADDS SHEET 42



R3-20R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	8 1/2	8 1/4		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	8 1/2	8 1/4		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	12 3/4	12 1/2		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

STANDARD SIGN
R3-20R

WISCONSIN DEPT OF TRANSPORTATION

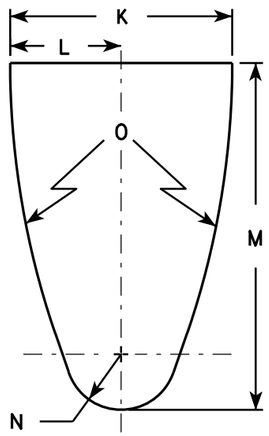
APPROVED Matthew R Rauch
for State Traffic Engineer

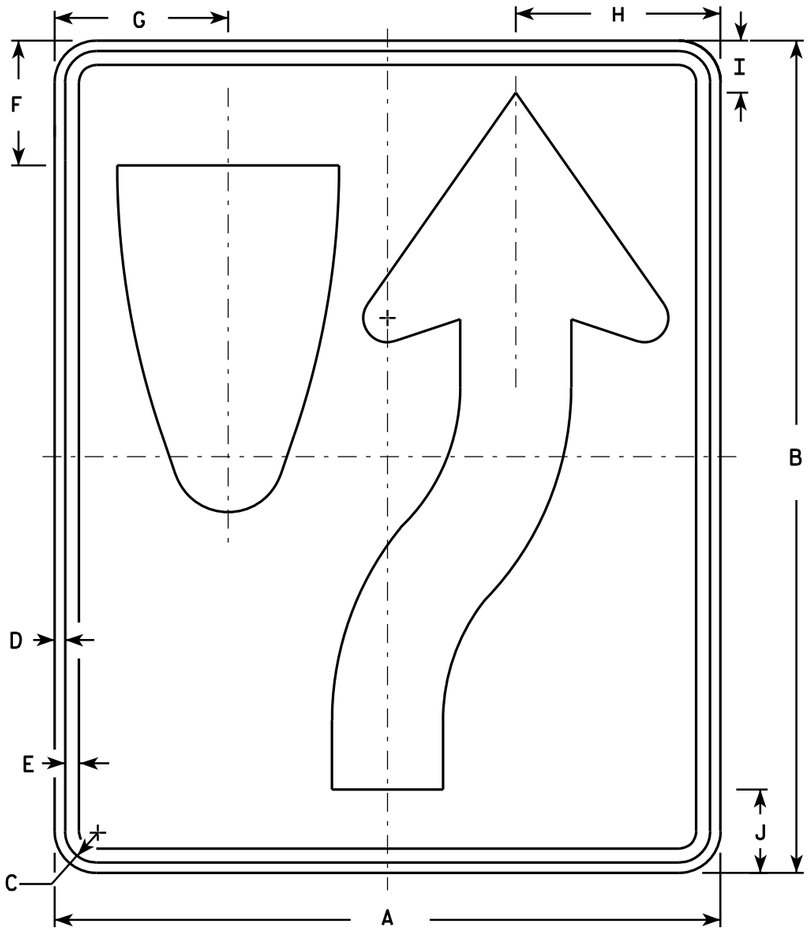
DATE 10/18/10 PLATE NO. R3-20R.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 605 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R320R.DGN PLOT DATE : 15-OCT-2010 14:59 PLOT BY : dotsja PLOT NAME : PLOT SCALE : 5.959043:1.000000

WISDOT/CADDS SHEET 42

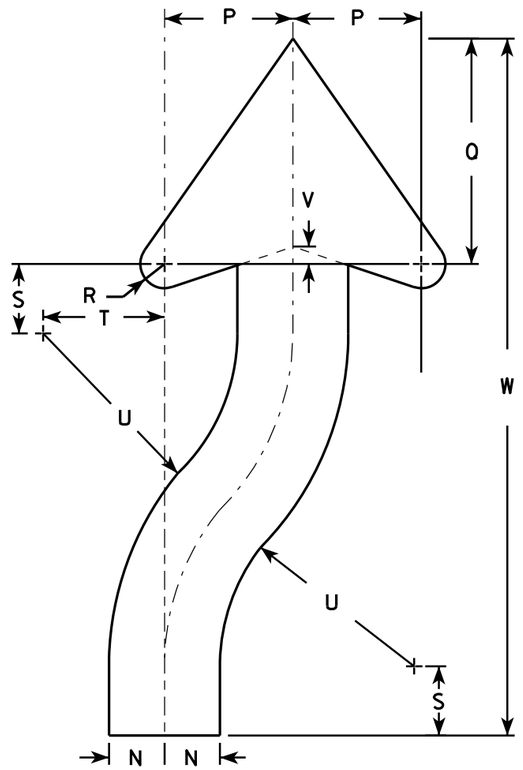




R4-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
4. R4-8 is the same as R4-7 except Legend is reversed.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

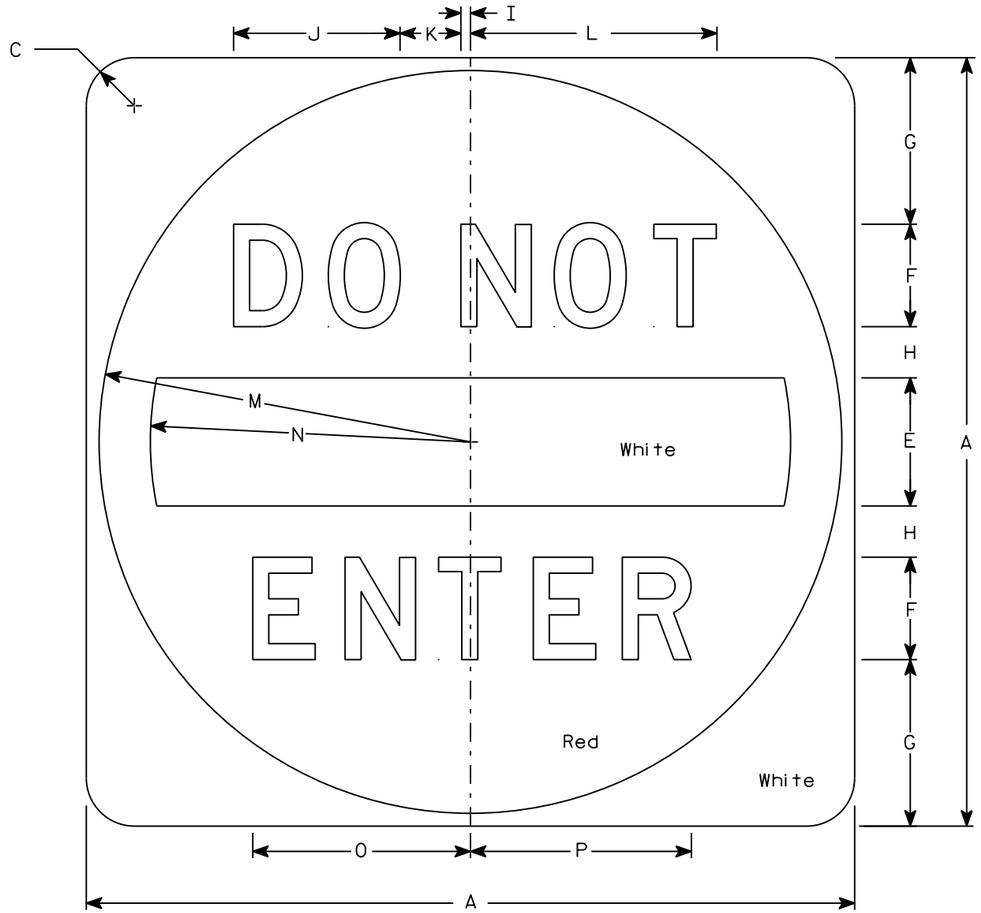
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-7.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 606	E



R5-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See detail
   Message - White
3. Message Series - D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 7/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 5/8	14 1/2	12 1/2	8 1/2	8 5/8											6.25
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 7/8											16.0

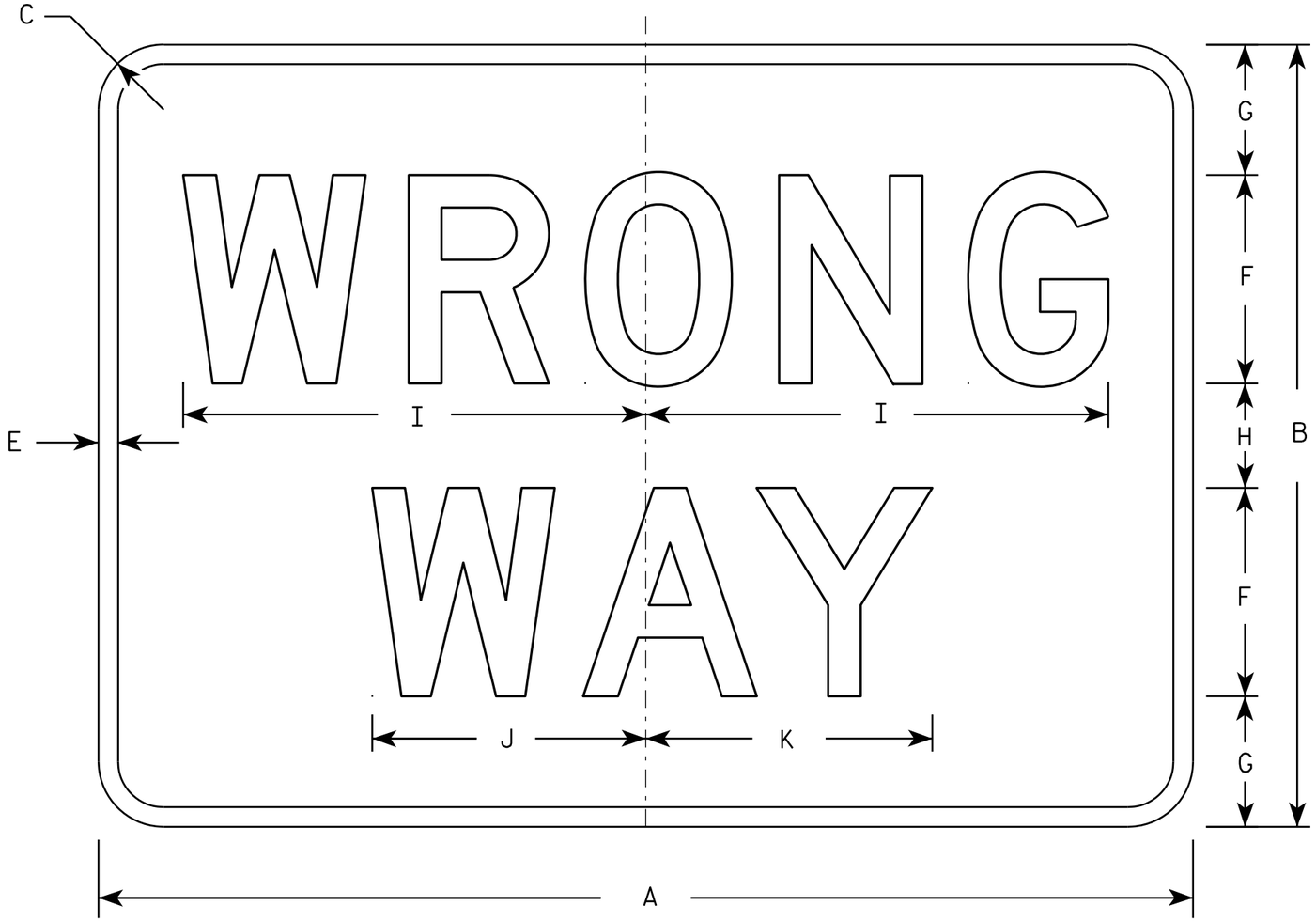
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/15/18 PLATE NO. R5-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 607 | E



R5-1A

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	18	1 1/2		1/2	5	3	2	11	6 1/2	6 7/8																3.75
2S	36	24	2		5/8	6	4 1/2	3	13 1/4	7 7/8	8 1/4																6.00
2M	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
3	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
4	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
5	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75

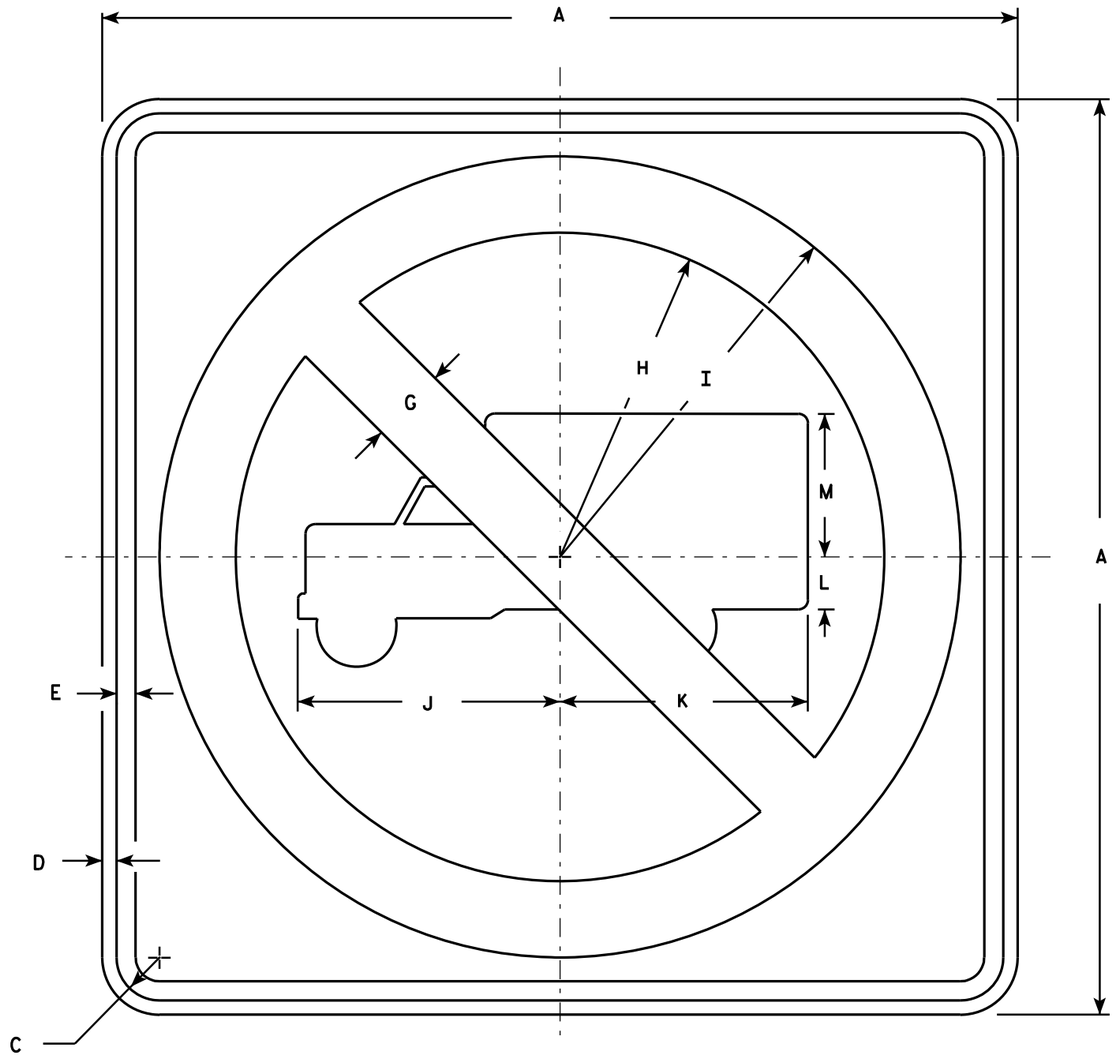
STANDARD SIGN
R5-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1A.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 608	E



R5-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Circle & Diagonal - Reflective red.
   Truck Symbol & Border - Non-reflective 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																											
2S	24		1 1/8	3/8	1/2		2	8 1/2	10 1/2	6 7/8	6 1/2	1 3/8	3 3/4														4.0
2M	24		1 1/8	3/8	1/2		2	8 1/2	10 1/2	6 7/8	6 1/2	1 3/8	3 3/4														4.0
3	30		1 3/8	1/2	5/8		2 1/2	10 5/8	13 1/8	8 1/2	8 1/8	1 5/8	4 3/4														6.25
4	36		1 5/8	5/8	3/4		3	12 3/4	15 3/4	10 1/4	9 3/4	2	5 3/4														9.0
5	48		2 1/4	3/4	1		4	17	21	13 5/8	13	2 5/8	7 5/8														16.0

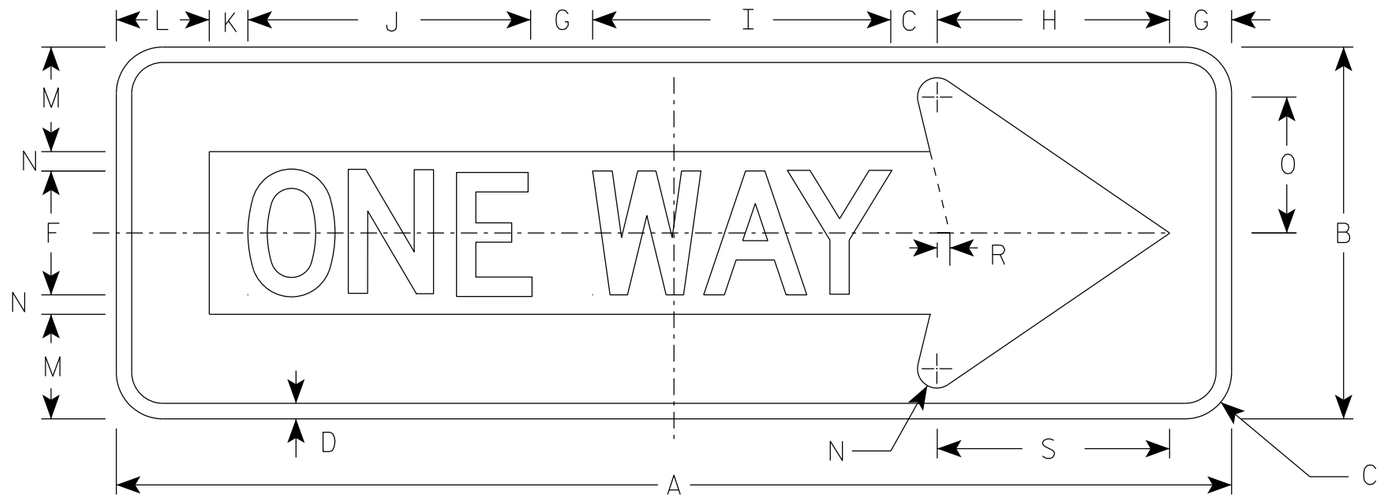
STANDARD SIGN
R5-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2011 PLATE NO. R5-2.6

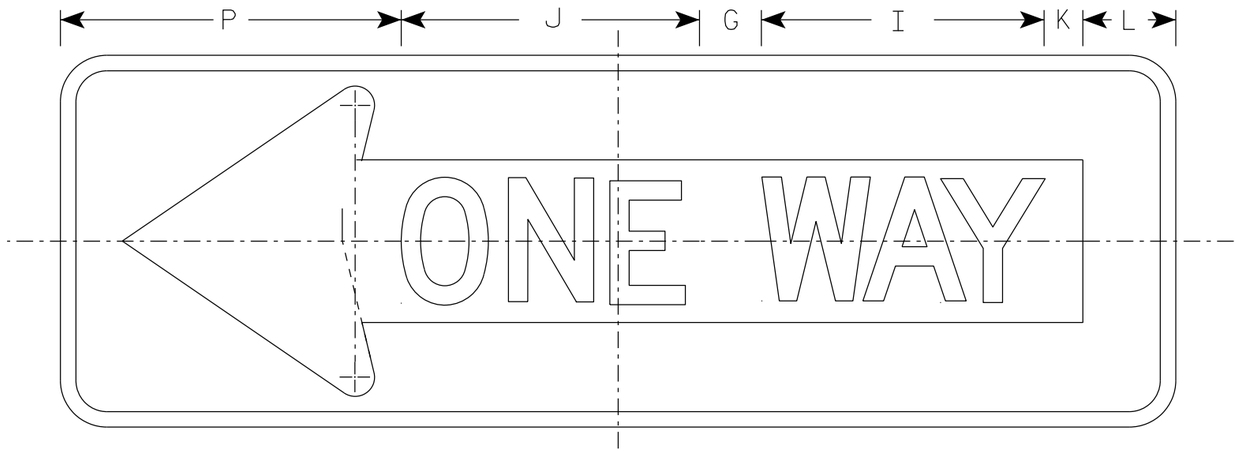
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 609	E



R6-1R

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - BLACK
   Message - BLACK LEGEND & WHITE ARROW & BORDER
3. Message Series - D



R6-1L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36	12	1 1/2	1/2		4	2	7 1/2	9 5/8	9 1/8	1 1/4	3	3 3/8	5/8	4 3/8	11		3/8	7 1/2								3.0
2M	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
3	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
4	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
5																											

STANDARD SIGN
R6-1 L & R

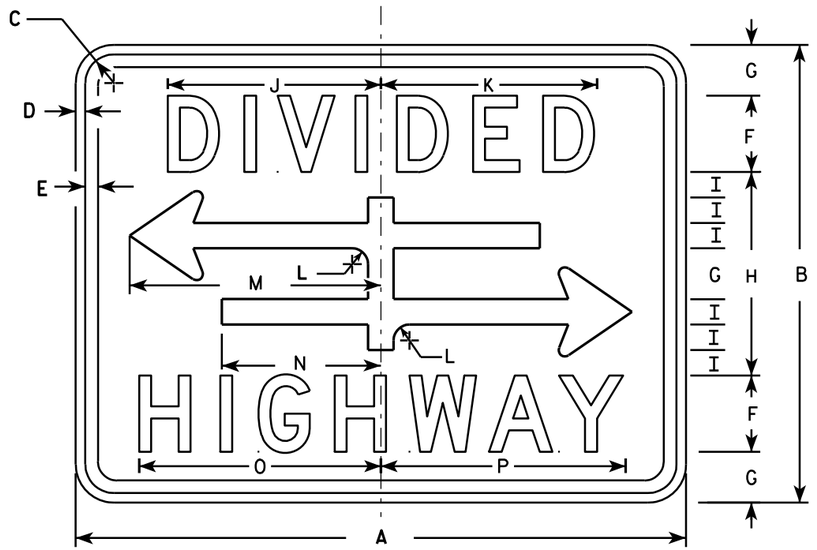
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 07/11/18 PLATE NO. R6-1.3

PROJECT NO:

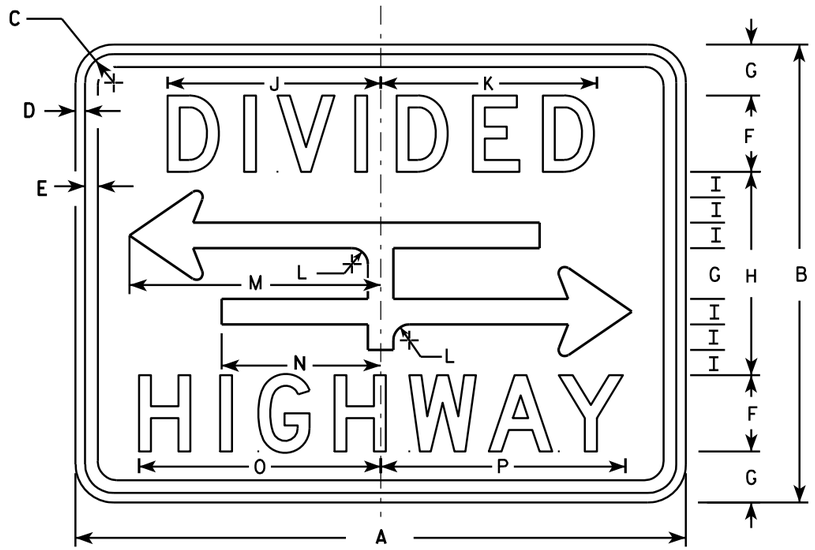
SHEET NO: 610 E



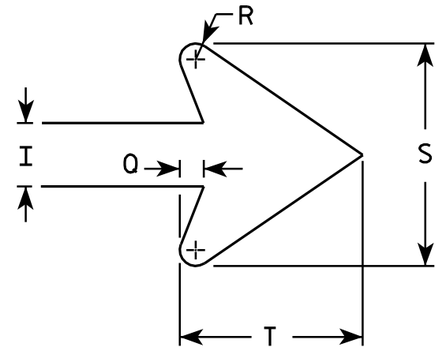
R6-3

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R6-3A



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	18	1 1/8	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 1/8	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 1/8	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

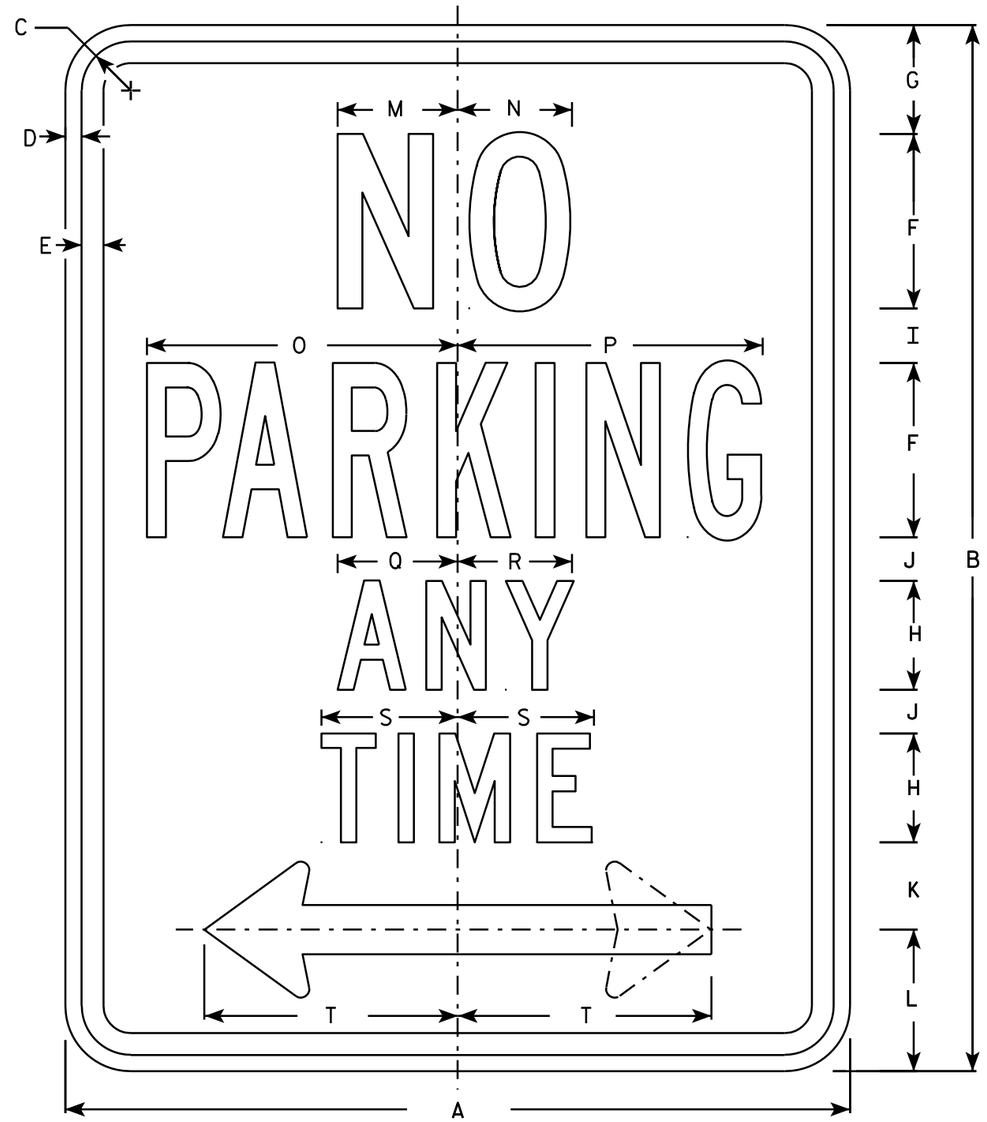
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R6-3.5

PROJECT NO:

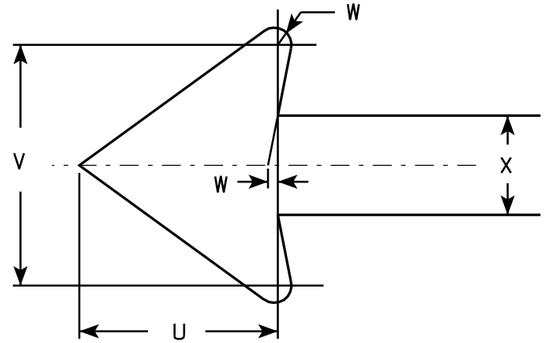
SHEET NO: 611 E



R7-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1, 3 and 4 are series C, line 2 is series B.
6. R7-1D (double arrow)
   R7-1L (left arrow)
   R7-1R (right arrow)



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2 1/4	2 1/8	2 1/2	3 7/8	1 1/2	1 3/4	1/8	3/4			1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 3/4	2 5/8	3 1/8	5 7/8	2 1/4	2 5/8	1/4	1 1/8			3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																											

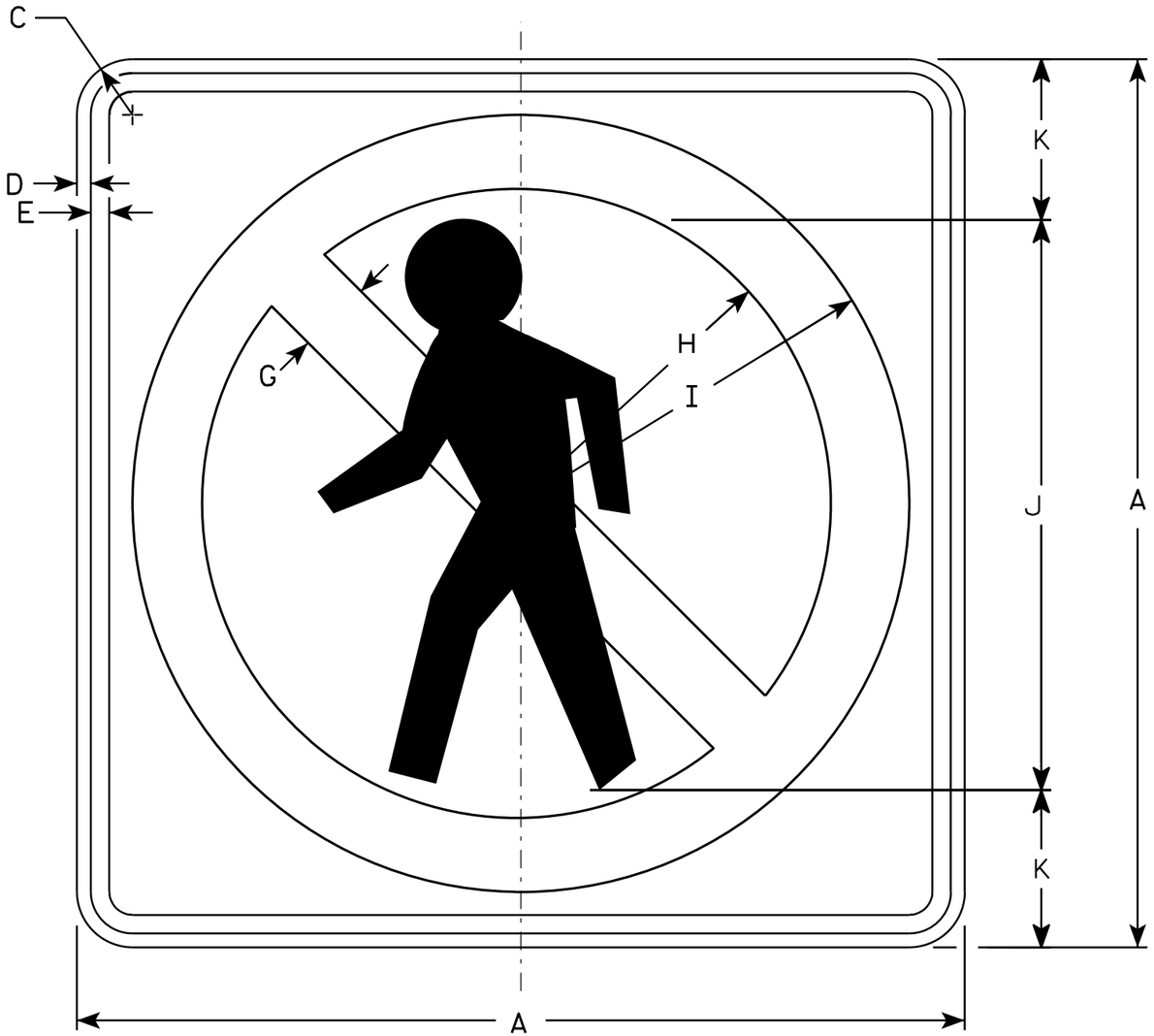
STANDARD SIGN
R7-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-1.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 612	E



R9-3A

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Pedistrian are non-reflective black. Circle with diagonal bar is reflective red.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	18		1 1/8	3/8	3/8		1 1/2	6 1/4	7 7/8	12	3																2.25
2M	18		1 1/8	3/8	3/8		1 1/2	6 1/4	7 7/8	12	3																2.25
3																											
4	24		1 1/8	3/8	1/2		2	8 1/2	10 1/2	15	4																4.00
5																											

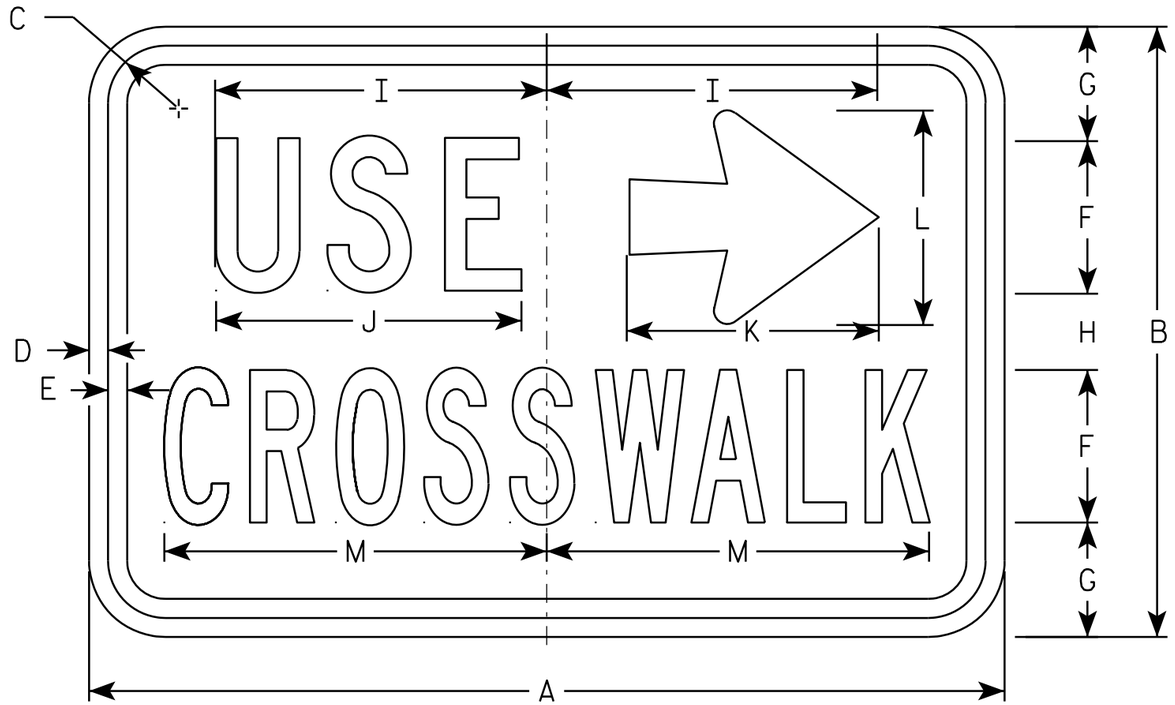
STANDARD SIGN
R9-3A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/4/10 PLATE NO. R9-3A.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 613 | E



R9-3BR

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - C Line 1, Series B Line 2
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. R9-3BL is the same as R9-3BR except USE and the arrow are switched.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	18	12	1 1/8	3/8	3/8	3	2 1/4	1 1/2	6 1/2	6	5	4 1/4	7 1/2														1.5
2M	18	12	1 1/8	3/8	3/8	3	2 1/4	1 1/2	6 1/2	6	5	4 1/4	7 1/2														1.5
3																											
4																											
5																											

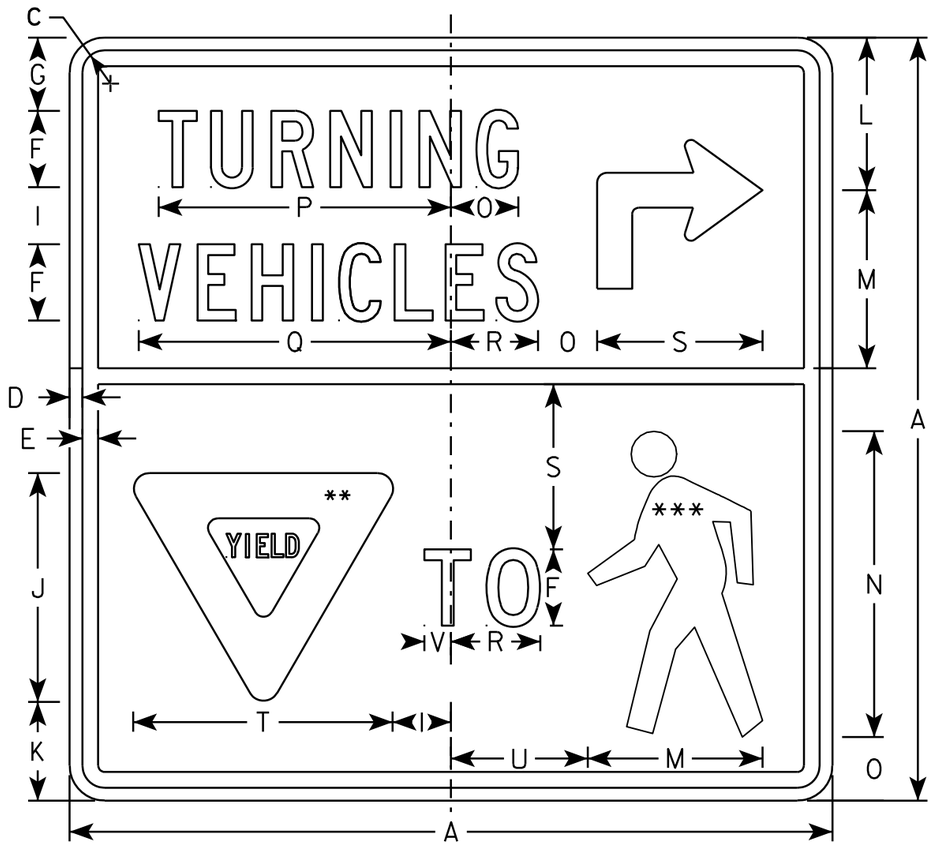
STANDARD SIGN
R9-3BR&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/4/10 PLATE NO. R9-3B.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 614 | E



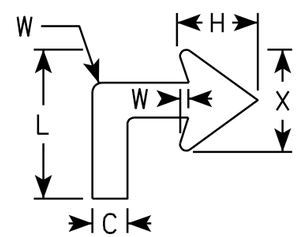
R10-15R

NOTES

1. All Signs Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Top Half- Yellow
   Bottom Half - WHITE
   Message - BLACK
   YIELD SYMBOL - RED ON WHITE
   PED SYMBOL - BLACK ON WHITE
3. Message Series - C except "TO" 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.

** INSERT R1-2 AND SIZE TO FIT

*** INSERT W11-2 AND SIZE TO FIT



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 3/8	1/2	5/8	3	2 7/8	3	2 1/4	9	3 7/8	6	7	12	2 1/2	11 1/2	12 1/4	3 1/2	6 1/2	10 1/4	5 3/8	1	3/8	4			6.25
2M	30		1 3/8	1/2	5/8	3	2 7/8	3	2 1/4	9	3 7/8	6	7	12	2 1/2	11 1/2	12 1/4	3 1/2	6 1/2	10 1/4	5 3/8	1	3/8	4			6.25
3																											
4																											
5																											

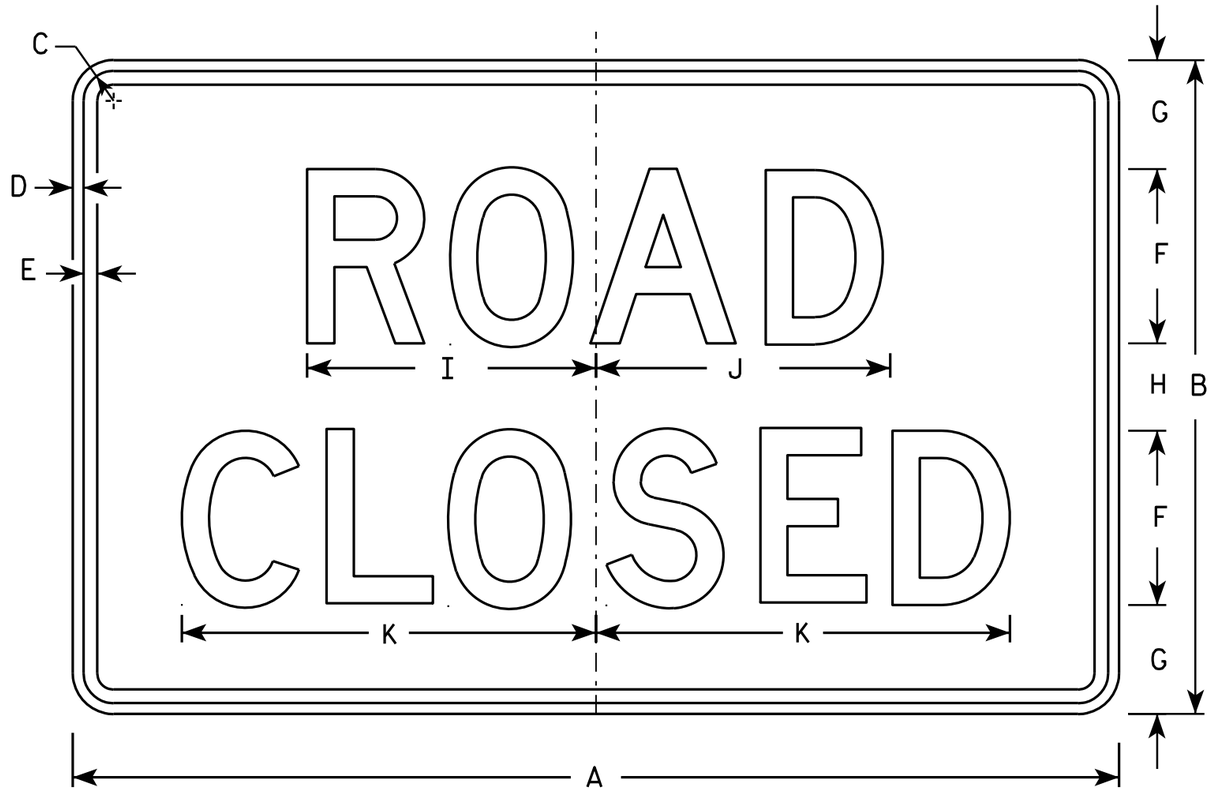
STANDARD SIGN
R10-15R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/2/10 PLATE NO. R10-15R.1

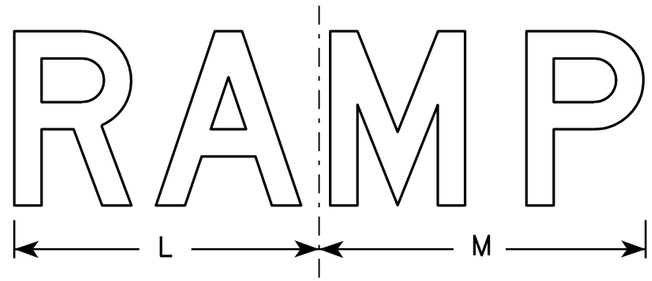
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 615	E



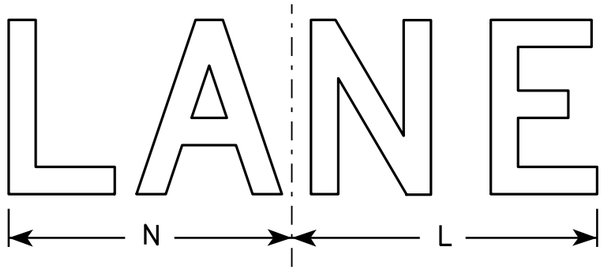
R11-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



R11-2R



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0

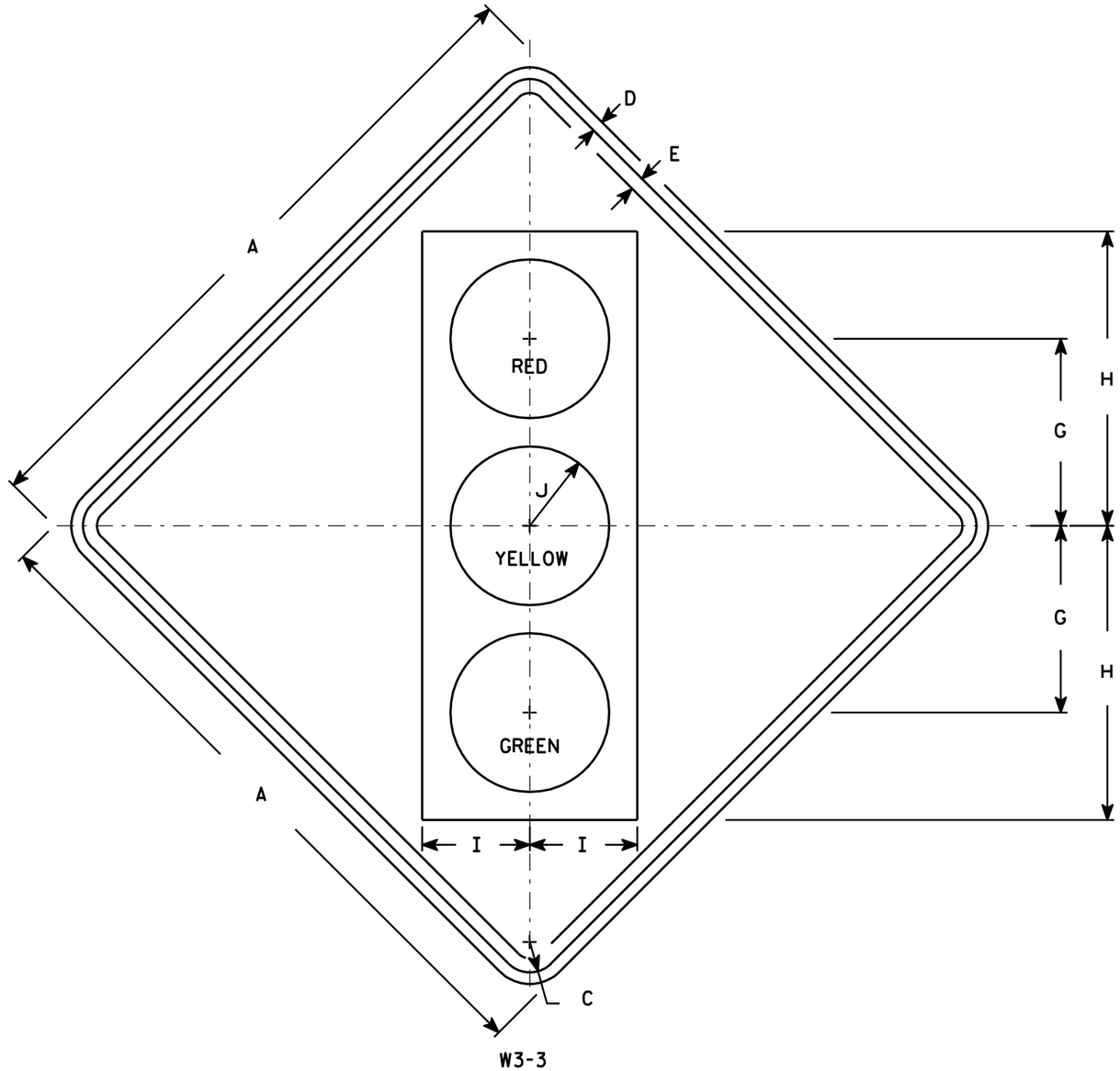
STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 616	E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Symbol and border are non-reflective black.
   Top circle - Type H Reflectorized Red
   Center circle - Same as background
   Bottom circle - Type H Reflectorized Green

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8		8 3/4	13 3/4	5	3 3/4																	6.25
2S	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
2M	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
3	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
4	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
5	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0

STANDARD SIGN
W3-3

WISCONSIN DEPT OF TRANSPORTATION

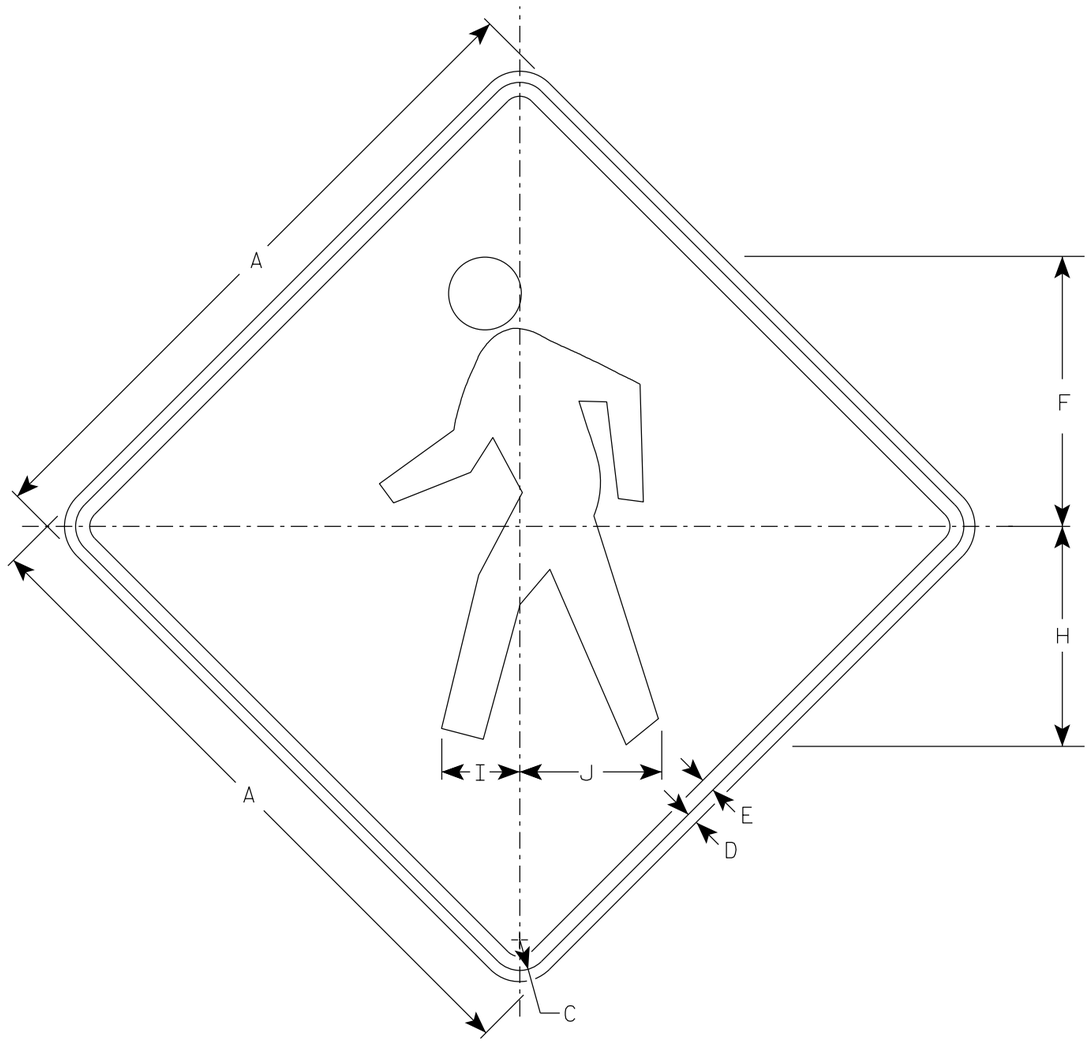
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-3.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 617 | E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black



W11-2

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	9 3/4		7 7/8	2 7/8	5 1/8																	4.0
2S	30		1 3/8	1/2	5/8	12 1/8		9 7/8	3 1/2	6 3/8																	6.25
2M	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
3	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
4	48		2 1/4	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
5																											

STANDARD SIGN

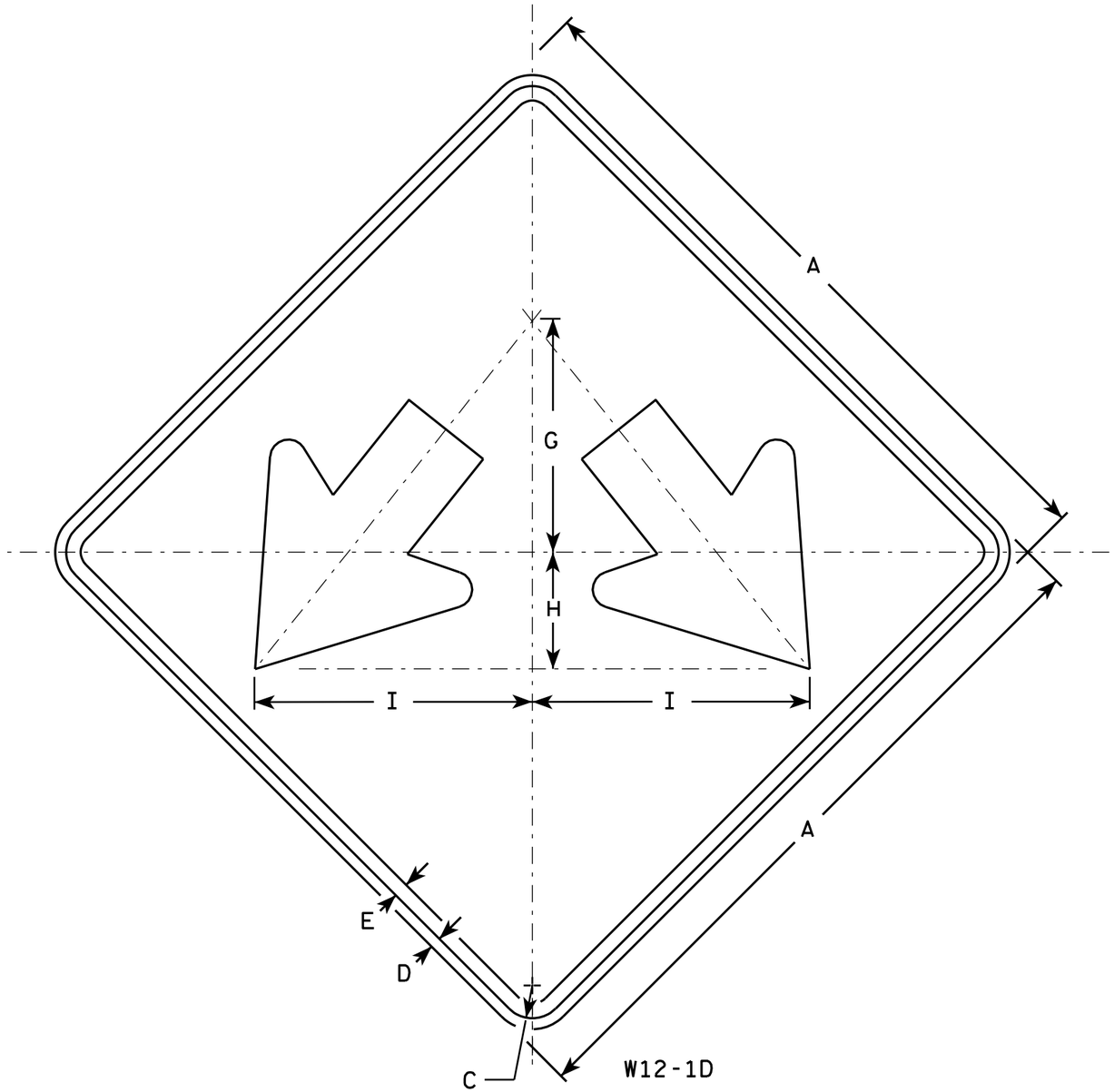
W11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

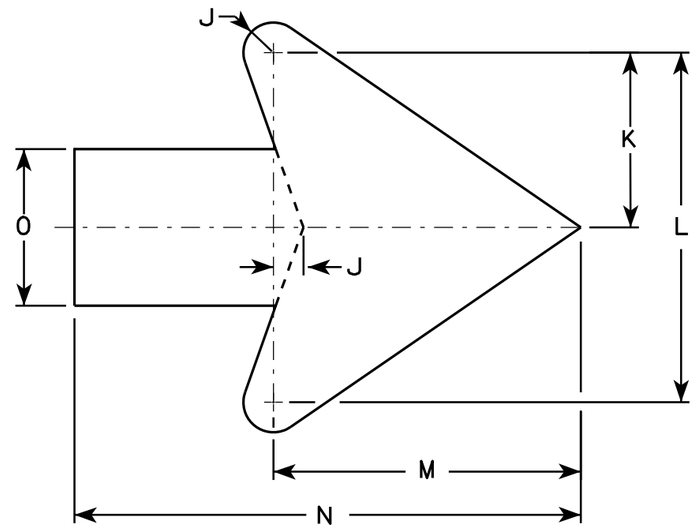
DATE 4/8/2020 PLATE NO. W11-2.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 618 | E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 3/8	1/2	5/8		10	5	11 7/8	3/4	4 1/2	9	7 7/8	13	4												6.25
4	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0
5	48		2 1/4	3/4	1		16	8	19	1 1/4	7 1/4	14 1/2	12 3/4	21	6 1/4												16.0

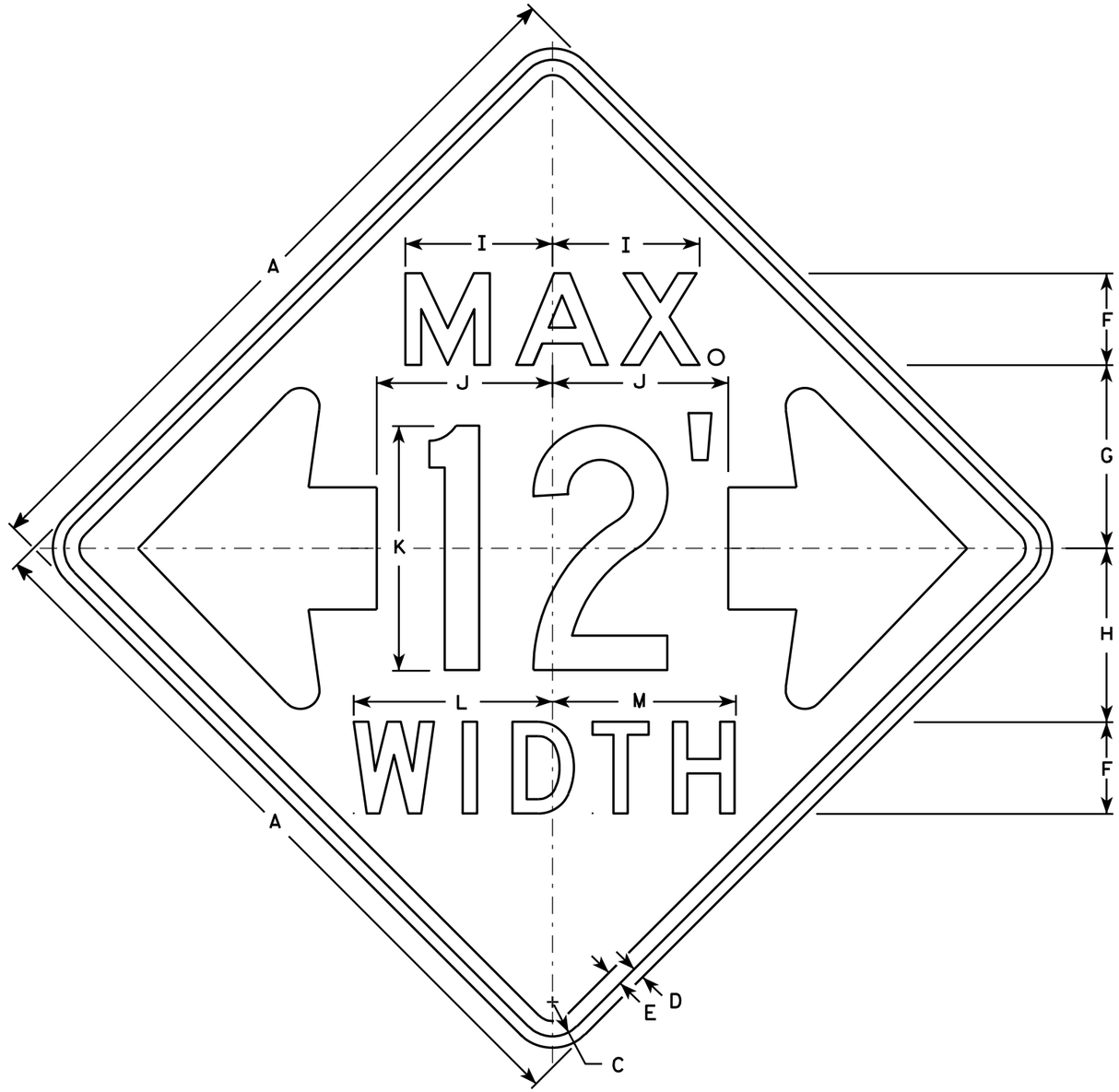
STANDARD SIGN
W12-1D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W12-1D.15

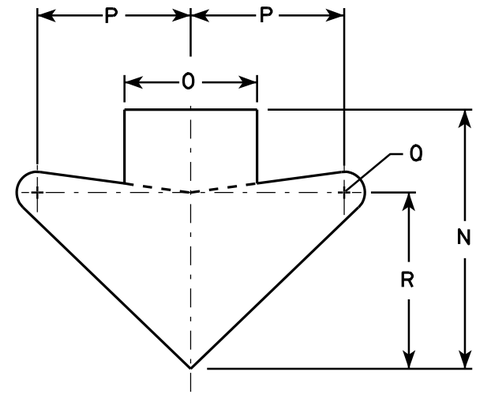
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 619	E



W12-52

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The top line is series E, the numerals are series C, and the bottom line is series D.
6. Substitute appropriate numerals and adjust spacing as required.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48		2 1/4	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
2M	48		2 1/4	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
3																											
4																											
5																											

STANDARD SIGN
W12-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

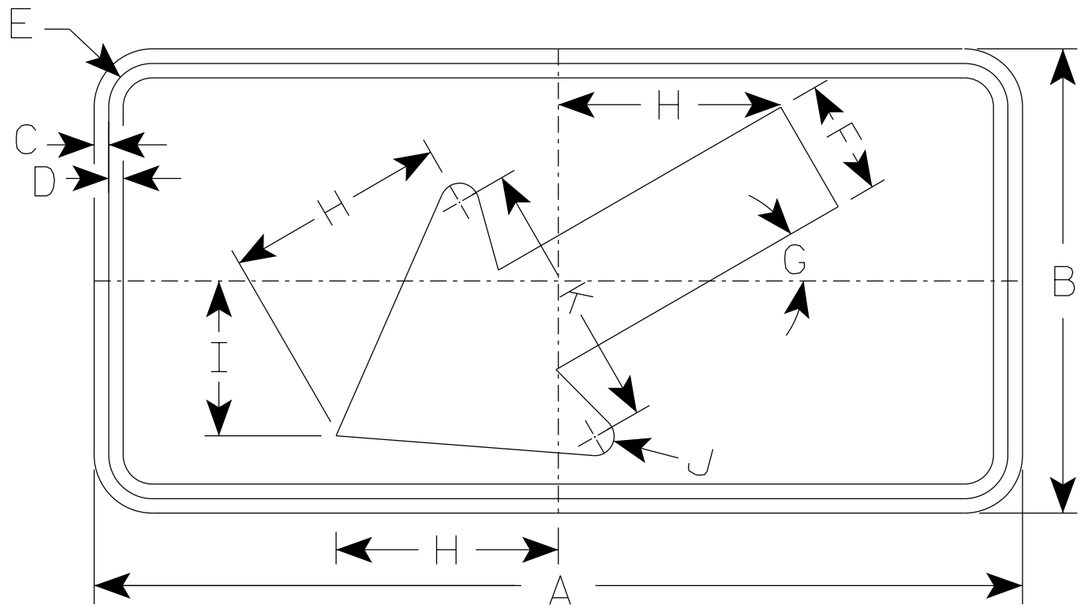
DATE 3/16/11 PLATE NO. W12-52.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 620 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W1252.DGN PLOT DATE : 16-MAR-2011 14:45 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.137199:1.000000
WISDOT/CADDS SHEET 42

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.



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.

	SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
	1																											
	2S	24	12	3/8	3/8	1 1/8	3	30°	5 3/4	4	1/2	7																2.0
*	2M	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
*	3	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
*	4	48	24	1/2	5/8	1 3/8	6	30°	11 1/2	8	1	14																8.0
	5																											

STANDARD SIGN
W16-7

WISCONSIN DEPT OF TRANSPORTATION

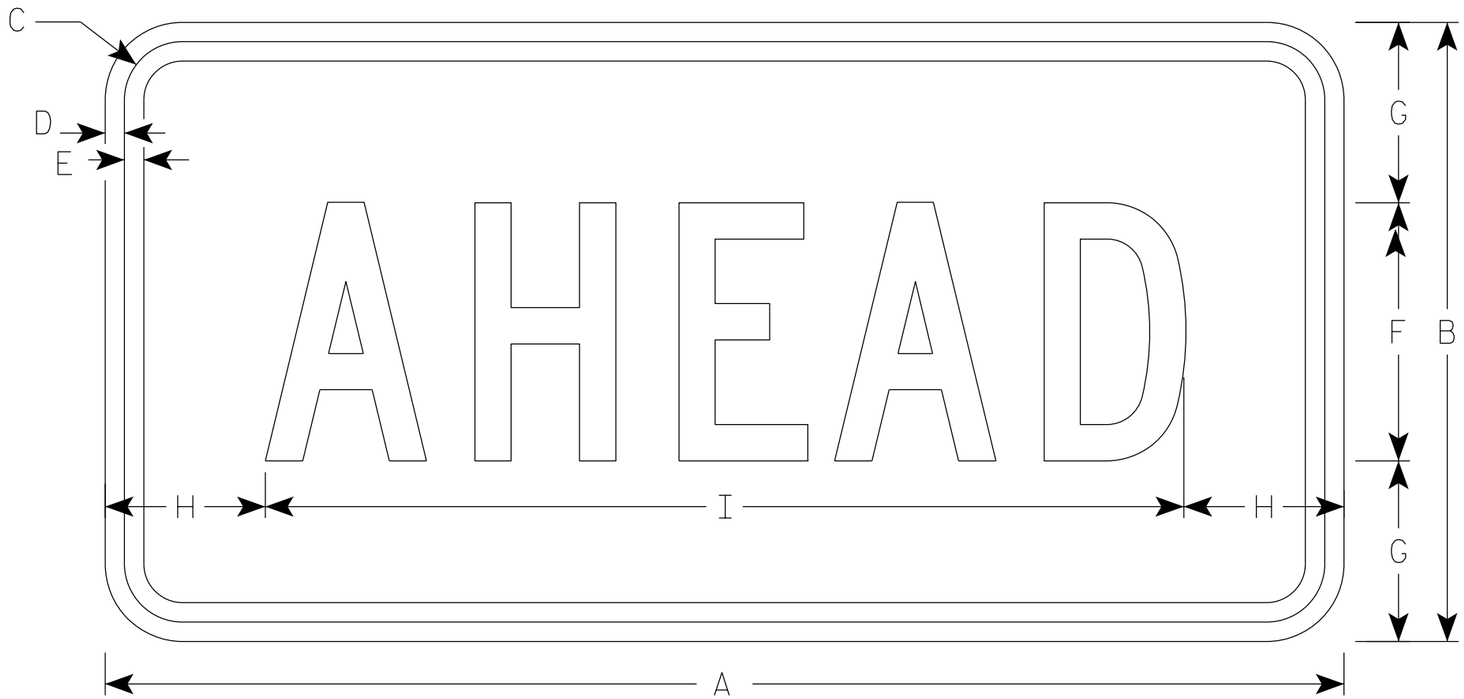
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/25/2020 PLATE NO. W16-7.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 621 | E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - C



W16-9P

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/8	3/8	3/8	5	3 1/2	3 1/8	17 3/4																		2.0
2M	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
3	30	18	1 1/8	3/8	1/2	7	3 1/2	2 3/4	24 1/2																		3.75
4	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
5																											

STANDARD SIGN
W16-9P

WISCONSIN DEPT OF TRANSPORTATION

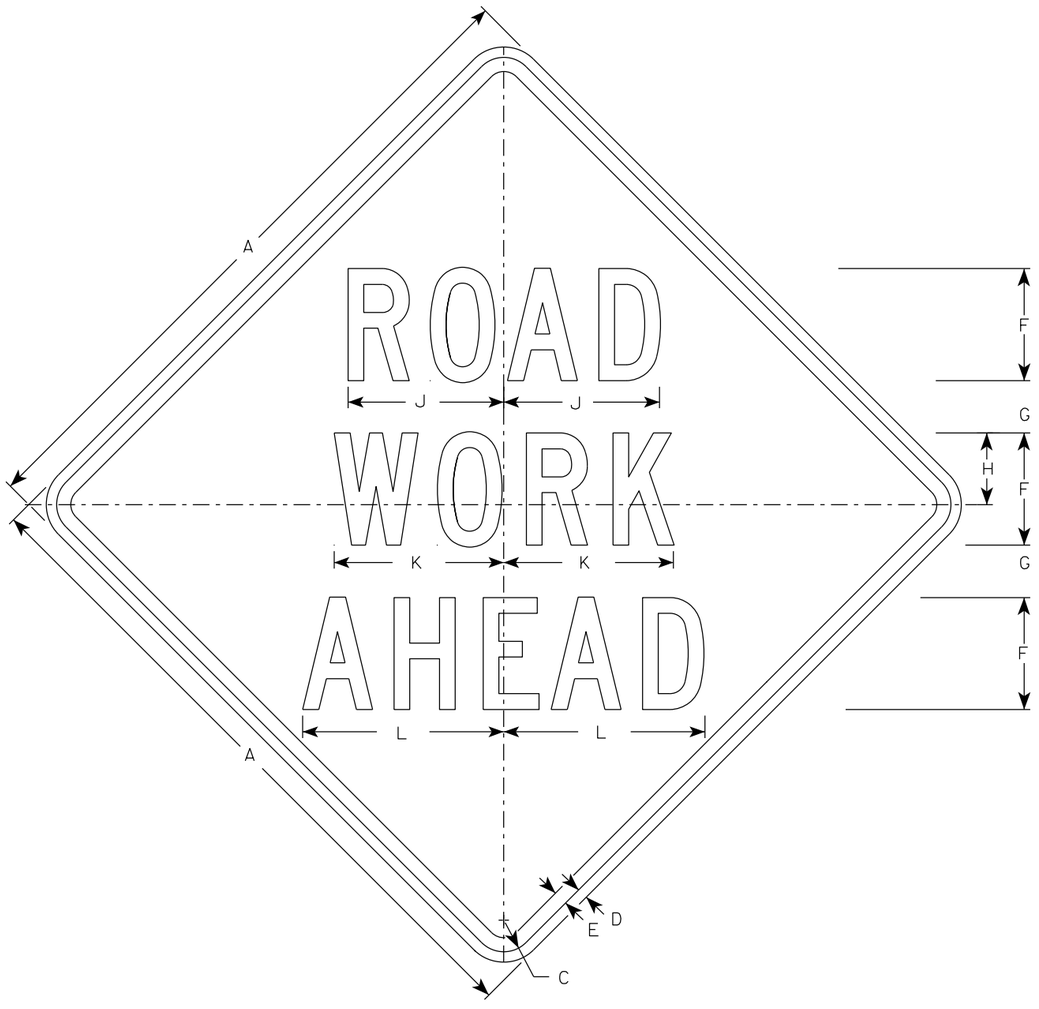
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/7/19 PLATE NO. W16-9P.7

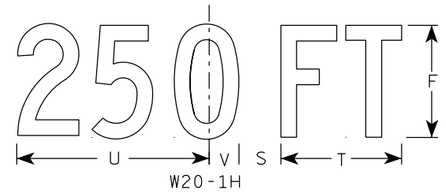
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 622 | E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W169P.DGN PLOT DATE : 07-MAR-2019 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

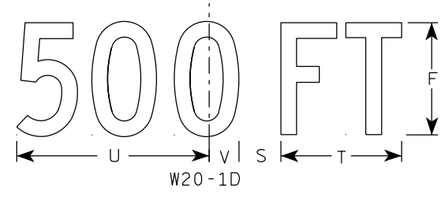
7



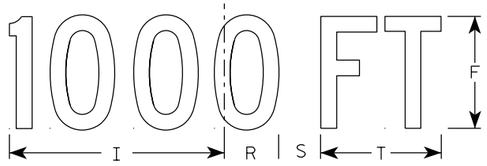
W20-1A



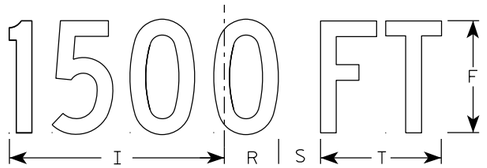
W20-1H



W20-1D



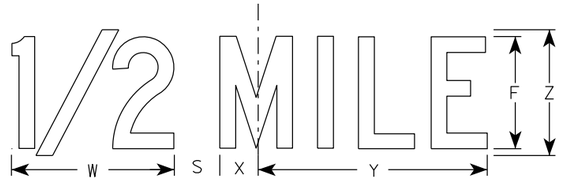
W20-1C



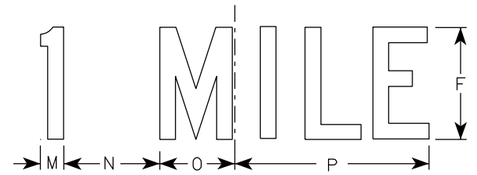
W20-1B

NOTES

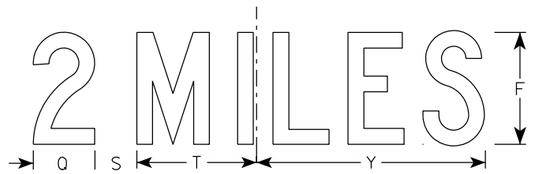
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



W20-1G



W20-1F



W20-1E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	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		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, E, F, G & H

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/2020 PLATE NO. W20-1.11

PROJECT NO:

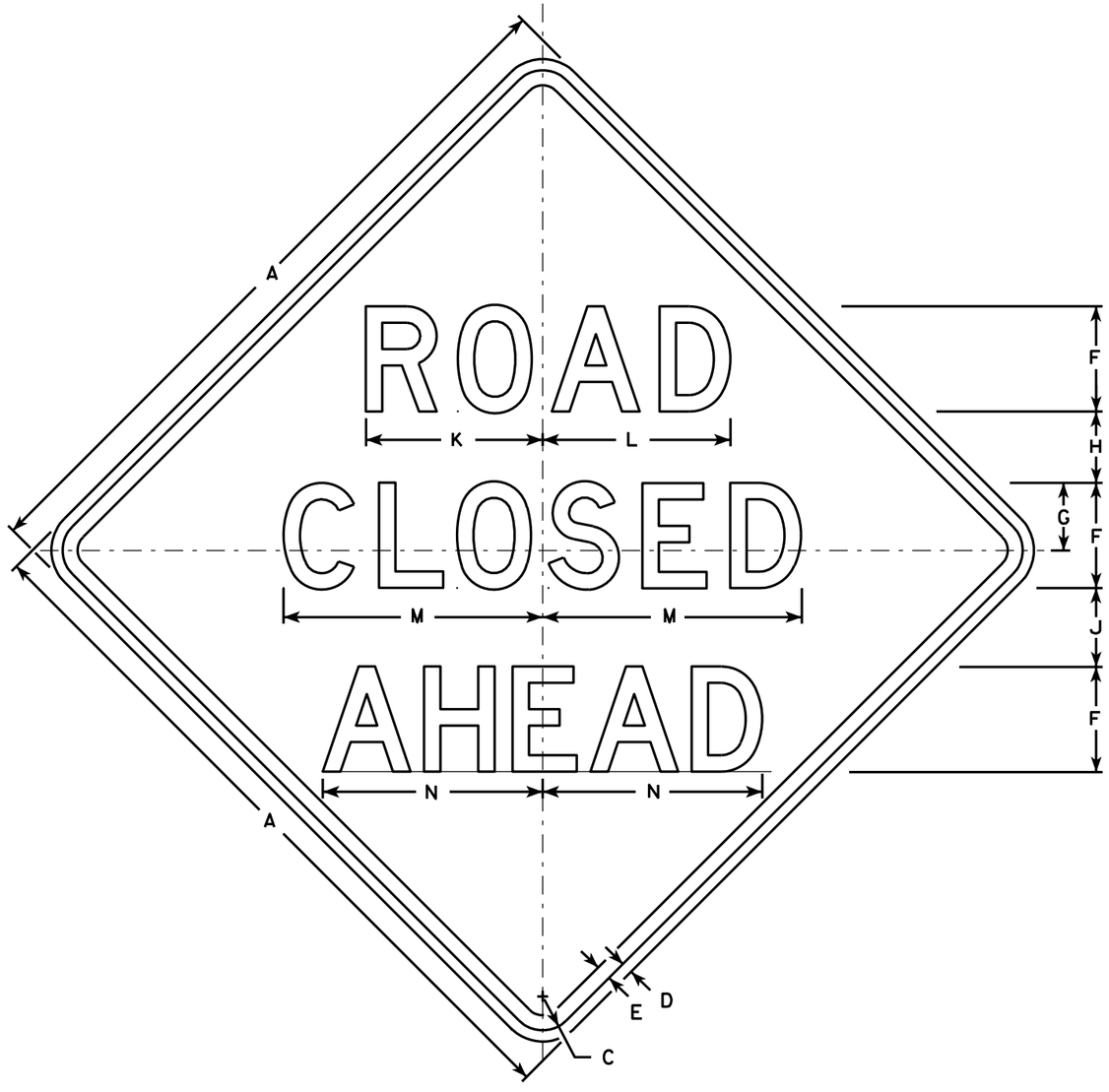
SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 25-MARCH-2020 PLOT BY : dotc4c

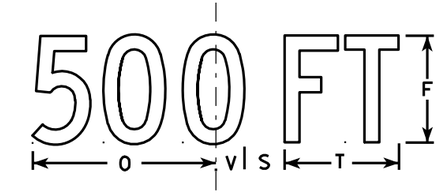
WISDOT/CADDS SHEET 42

7

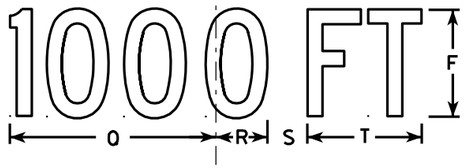
7



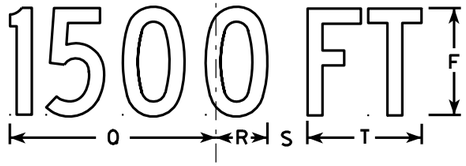
W20-3A



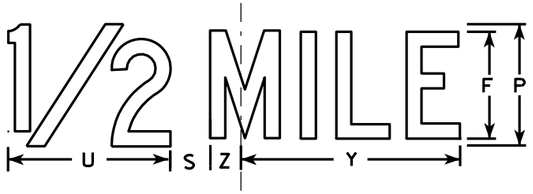
W20-3D



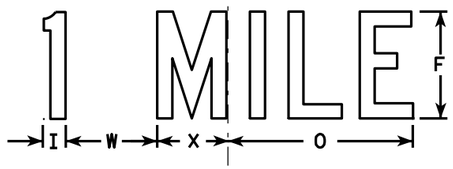
W20-3C



W20-3B



W20-3G



W20-3F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-3.7

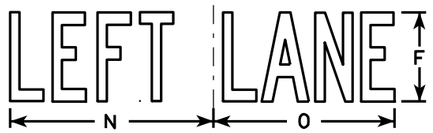
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 624 | E

7

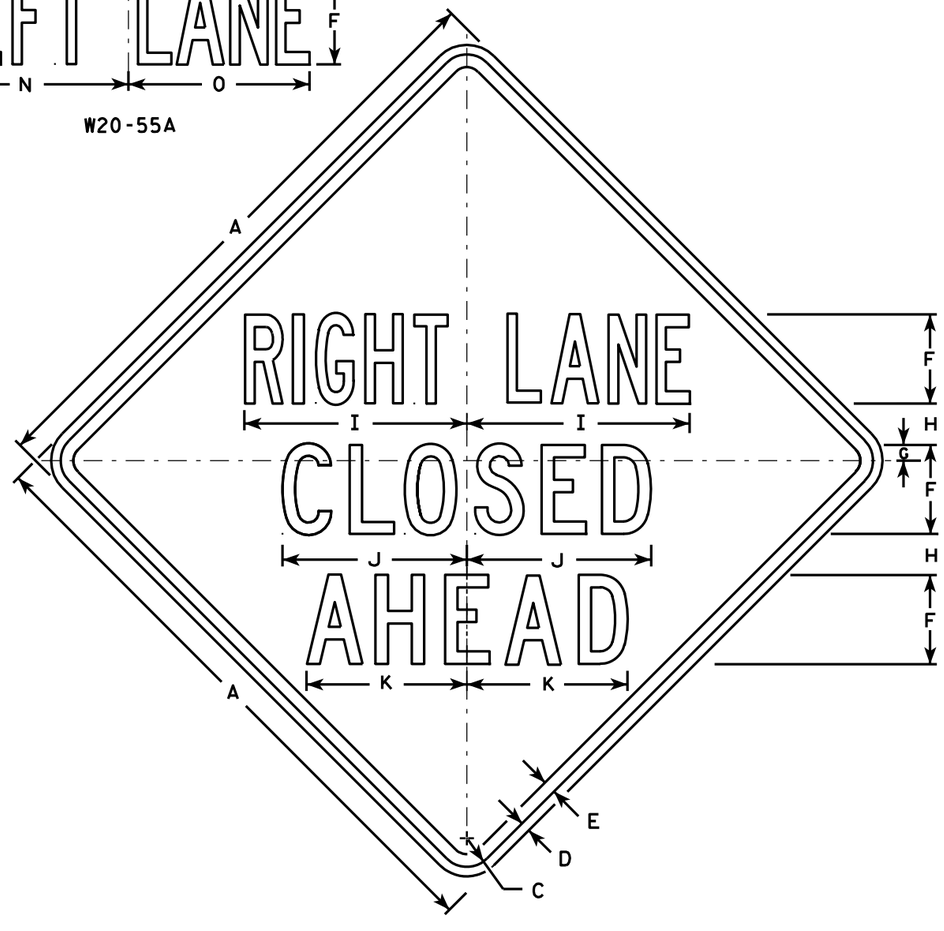
FILE NAME : C:\Users\PROJECTS\tr_stdplate\W203.DGN PLOT DATE : 18-MAR-2011 12:08 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.931739:1.000000
WISDOT/CADDS SHEET 42



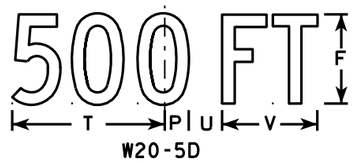
W20-56A



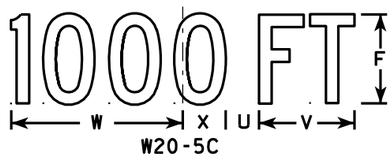
W20-55A



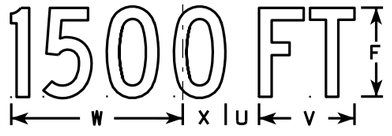
W20-5A



W20-5D



W20-5C



W20-5B



W20-5G



W20-5F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. " _____ 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	1 5/8	5/8	3/4	5	1/8	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 1/8	5 5/8	10 1/8	2 1/2	1 3/4	8	9.0
2S	48	8	2 1/4	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	2 1/4	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	2 1/4	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	2 1/4	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	2 1/4	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

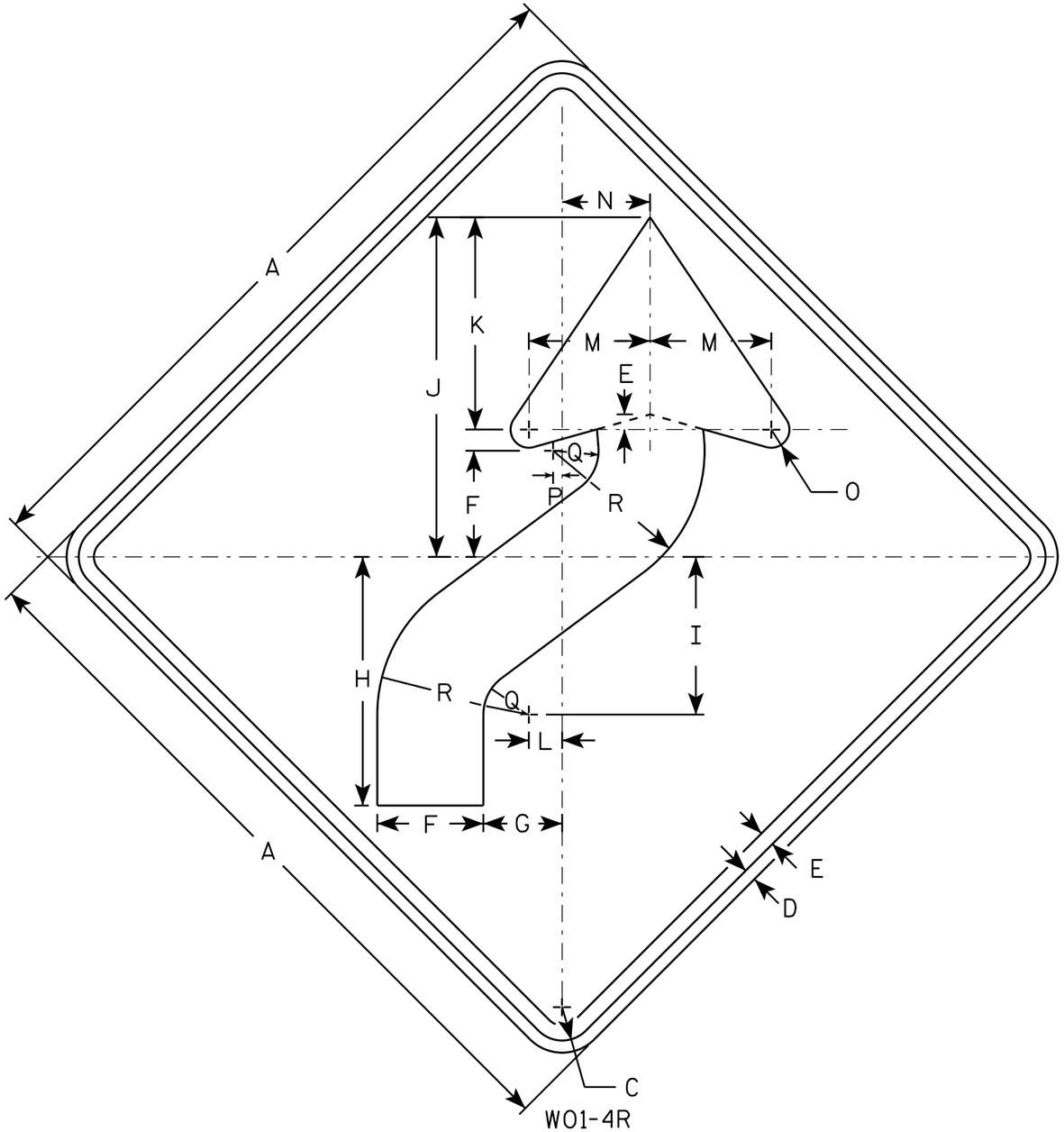
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-5.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 625 | E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W205.DGN PLOT DATE : 18-MAR-2011 12:15 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 11.918087:1.000000
WISDOT/CADDS SHEET 42



W01-4R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W01-4L is the same as W01-4R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
2S	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
2M	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
3	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
4	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
5	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

STANDARD SIGN
W01-4

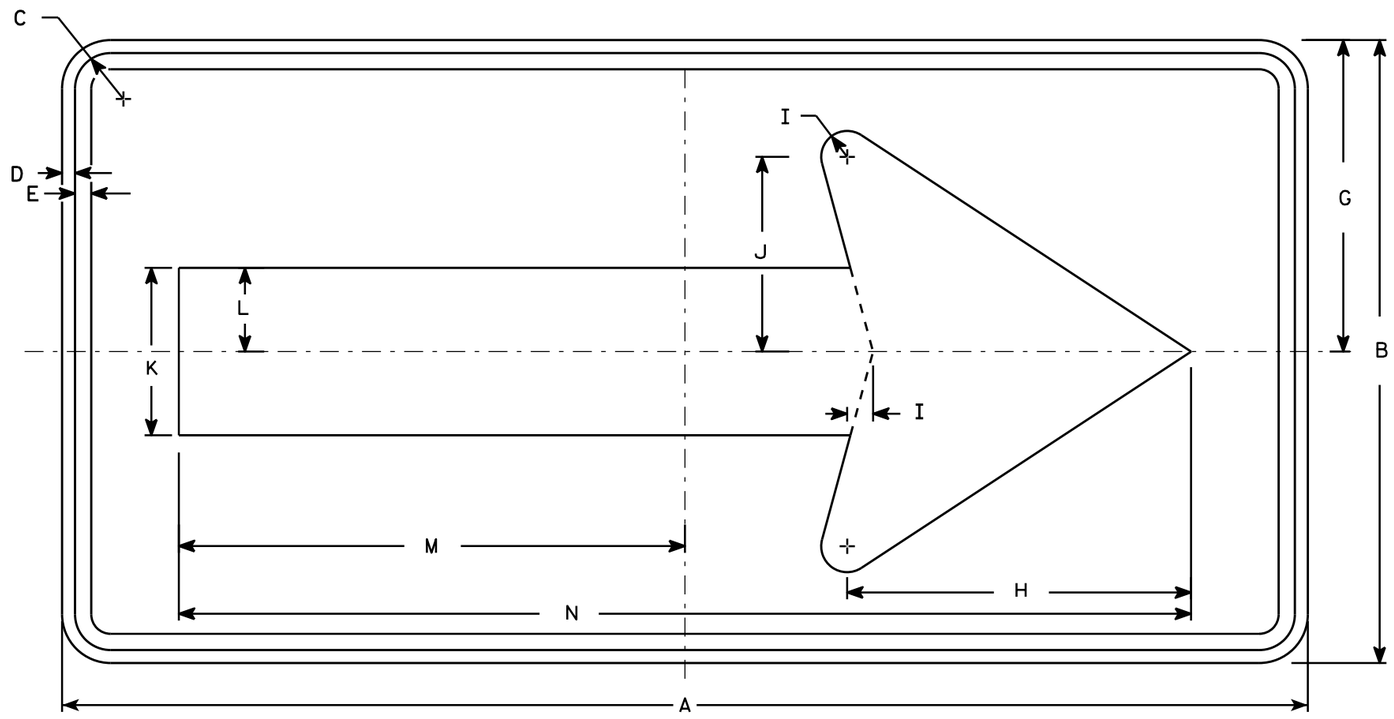
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO W01-4.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W014.DGN PLOT DATE : 28-FEB-2014 11:35 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 6.755110:1.000000
WISDOT/CADDS SHEET 42



W01-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5

STANDARD SIGN
W01-6

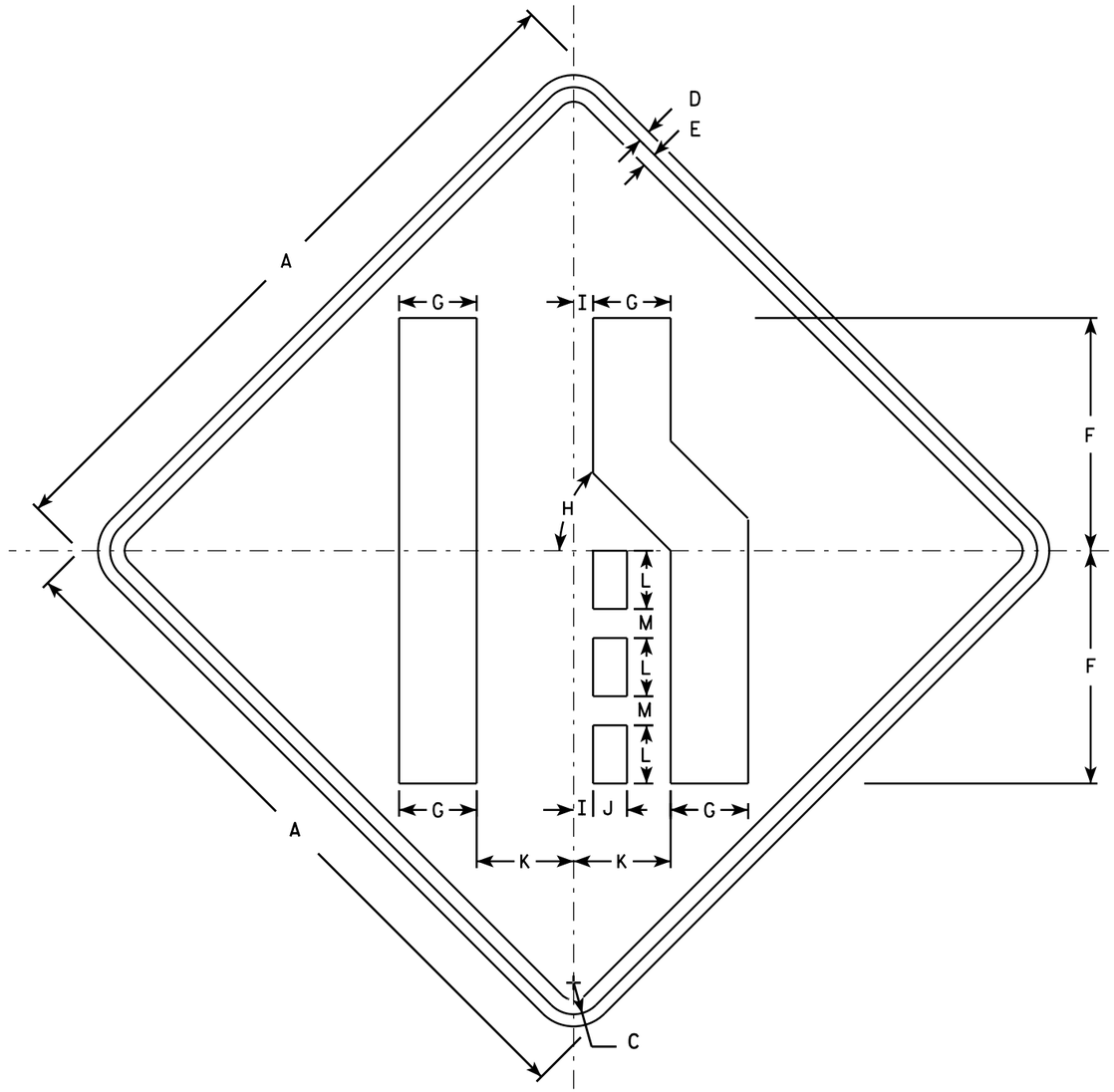
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO. W01-6.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W016.DGN PLOT DATE : 28-FEB-2014 11:37 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.837526:1.000000 WISDOT/CADDS SHEET 42



W04-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. 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		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2S	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
2M	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
3	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

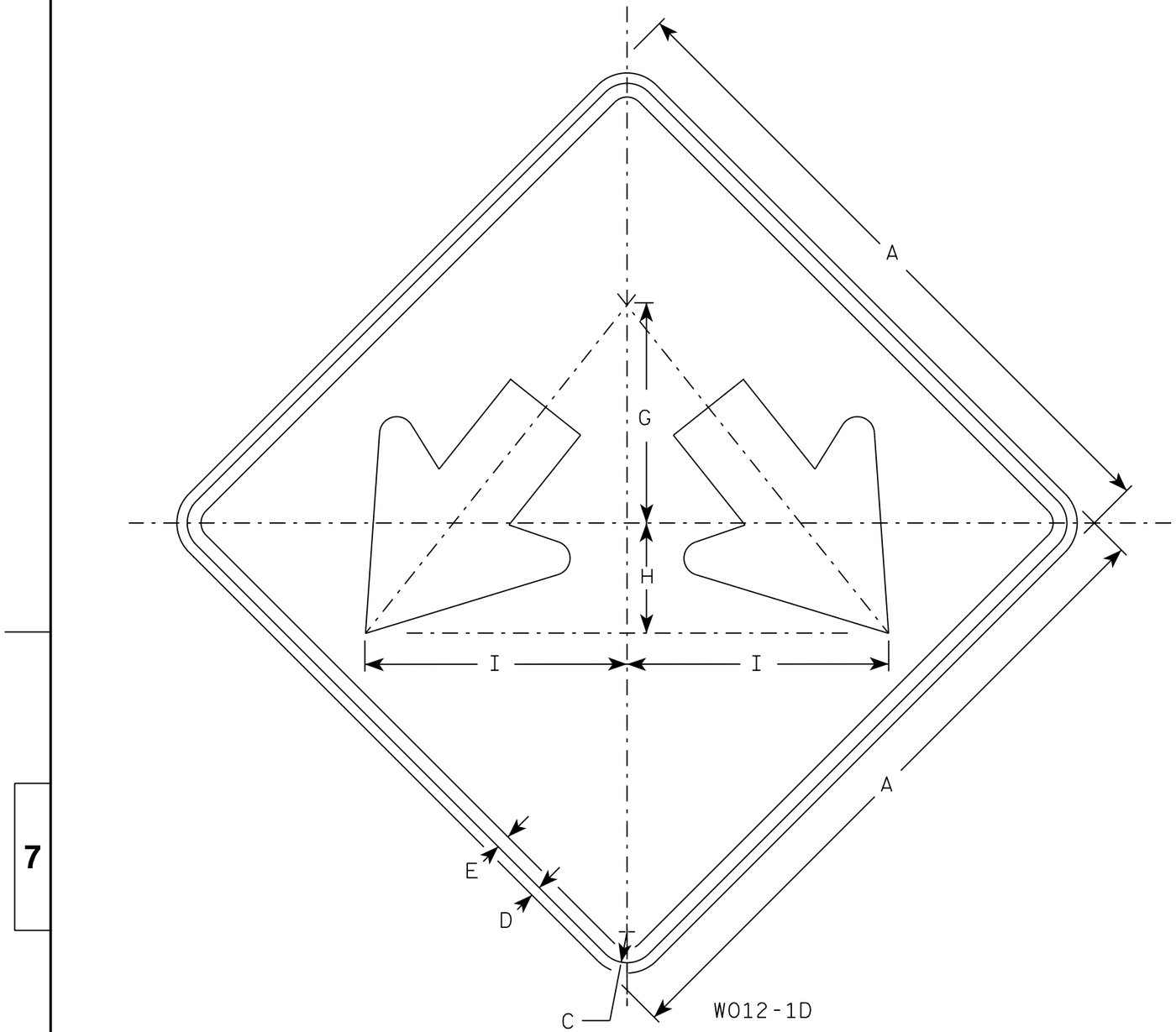
STANDARD SIGN
W04-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 628 W04-2.1

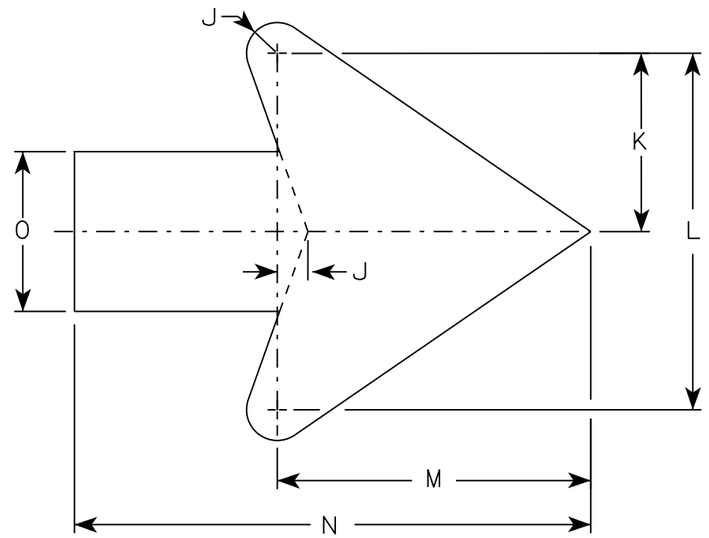
PROJECT NO: | SHEET NO: E



W012-1D

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	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2S	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 3/8	1/2	5/8		10	5	11 7/8	3/4	4 1/2	9	7 7/8	13	4												6.25
4	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0
5	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0

STANDARD SIGN
W012-1D

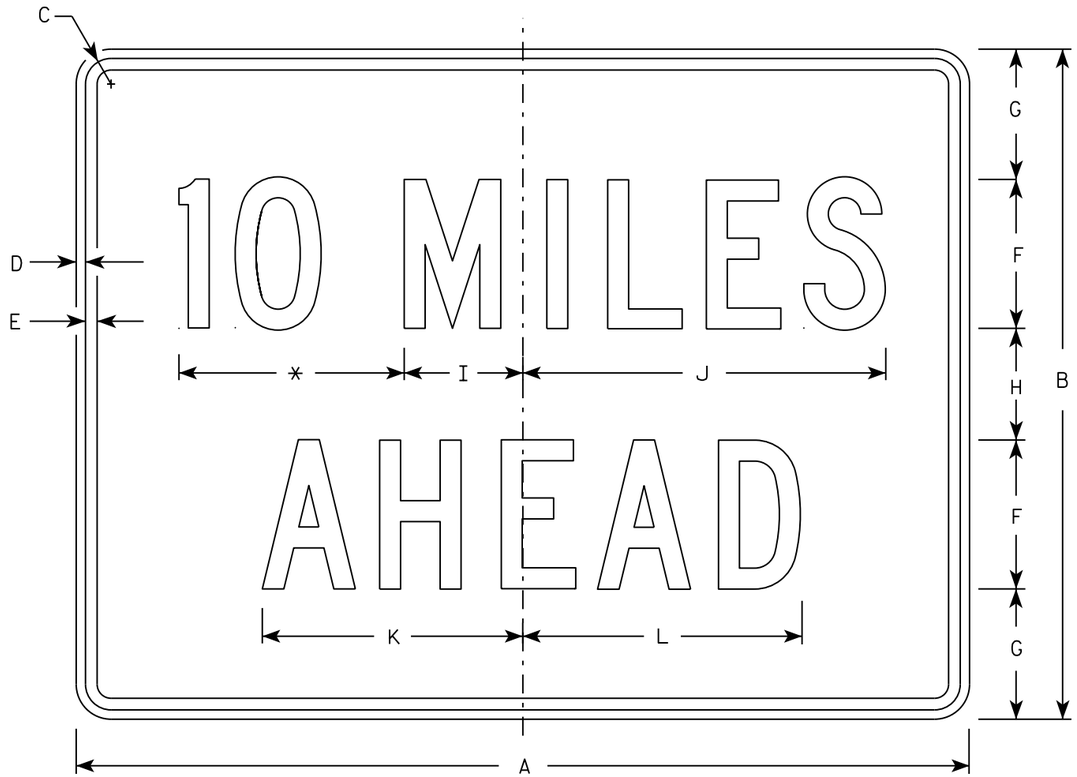
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

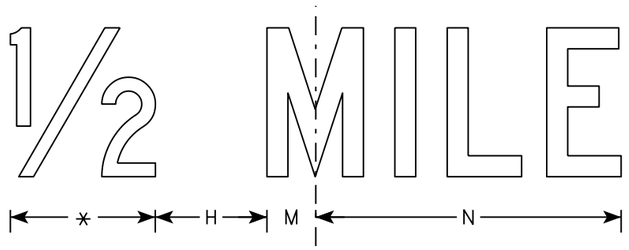
DATE 7/28/16 PLATE NO W012-1D.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W0121D.DGN PLOT DATE : 11-AUG-2016 11:28 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.621375:1.000000



W057-52



NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals to the nearest quarter mile and optically adjust spacing to achieve proper balance.

* See note 5

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	24	1 1/8	3/8	1/2	6	4 1/2	3	4 3/4	14 5/8	10 5/8	11 3/8	2	12													6.0
2S	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
2M	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
3	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
4	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
5	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0

STANDARD SIGN
W057-52

WISCONSIN DEPT OF TRANSPORTATION

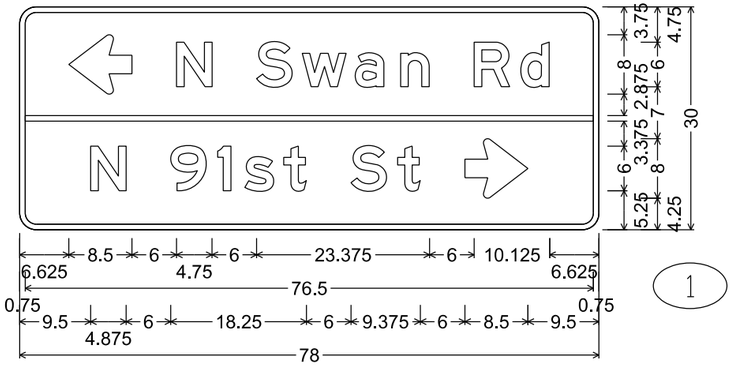
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/17 PLATE NO. W057-52.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 630	E

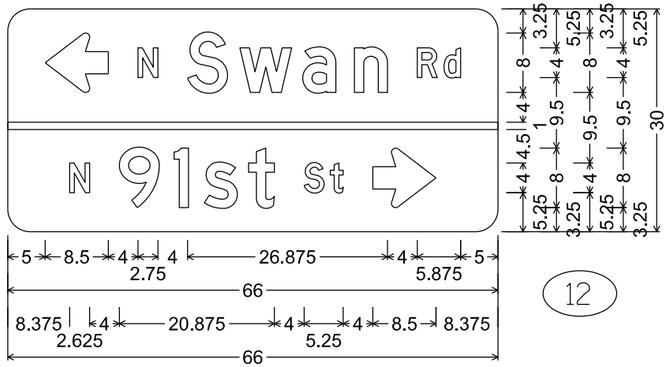
NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E except as noted.



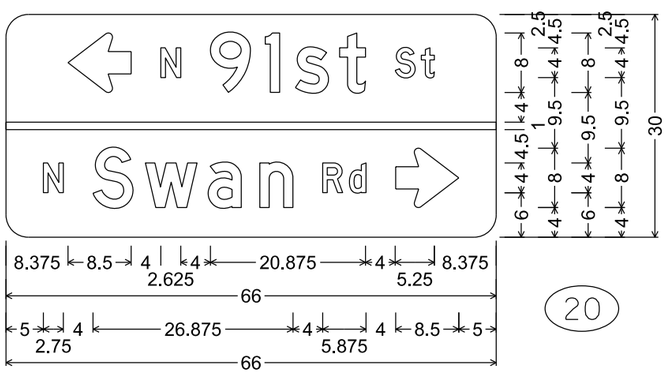
1

D1-2; 2.250" Radius, 0.750" Border



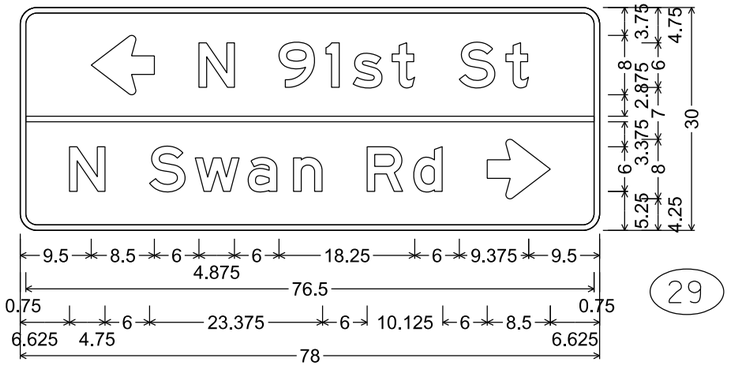
12

M1-94H ; 3.000" Radius, No border;
"N", D; "Swan", D; "Rd", D; "N", D; "91st", D; "St", D



20

M1-94H ; 3.000" Radius, No border;
"N", D; "91st", D; "St", D; "N", D; "Swan", D; "Rd", D



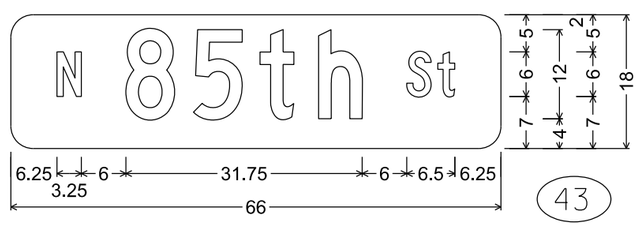
29

D1-2; 2.250" Radius, 0.750" Border



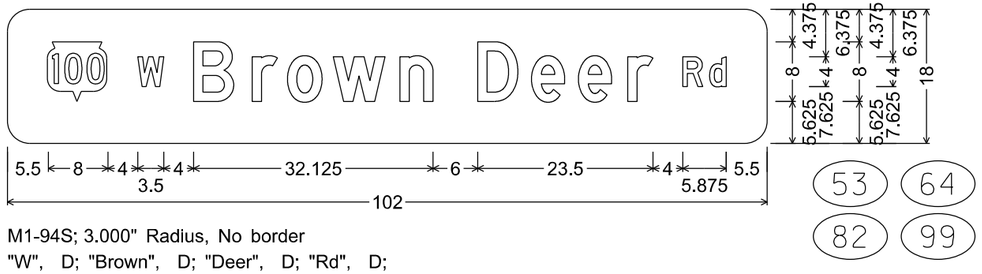
36
68

D1-65; 2.250" Radius, 0.750" Border



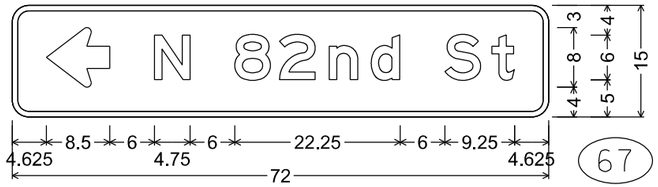
43
418

M1-94H; 3.000" Radius, No border
"N", C; "85th", C; "St", C;



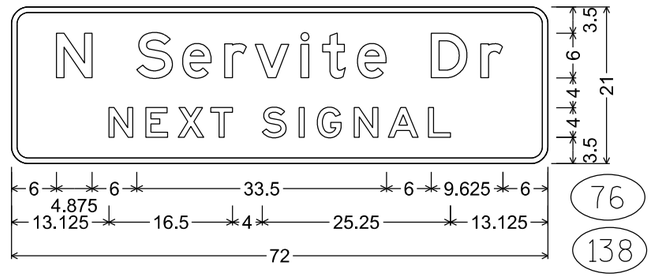
53 64 82 99

M1-94S; 3.000" Radius, No border
"W", D; "Brown", D; "Deer", D; "Rd", D;



67

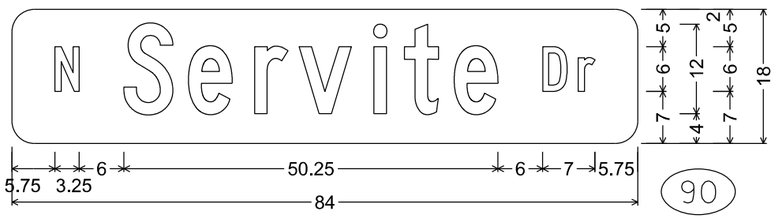
D1-1; 2.250" Radius, 0.750" Border



76

138

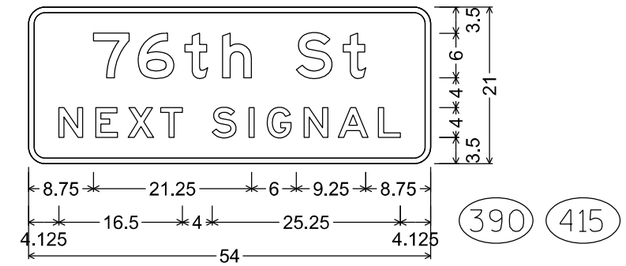
D1-65; 2.250" Radius, 0.750" Border



90

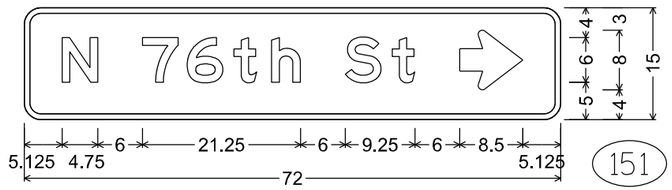
105

M1-94H; 3.000" Radius, No border
"N", C; "Servite", C; "Dr", C;



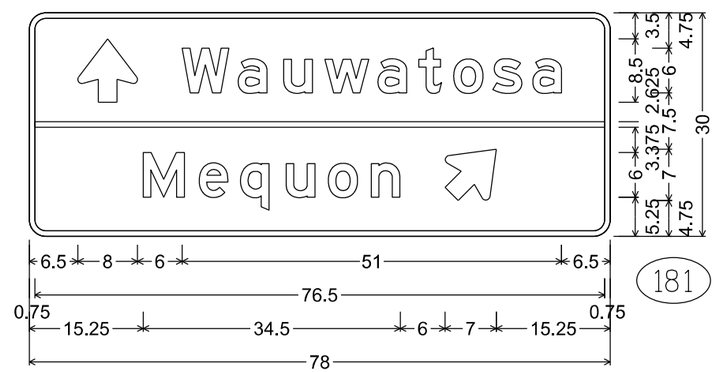
390 415

D1-65; 2.250" Radius, 0.750" Border



151

D1-1; 2.250" Radius, 0.750" Border



181

D1-2; 2.250" Radius, 0.750" Border

N 72nd St

6 22.25 6 9.25 6 8.5
4.625 4.75
4.625
72
4 3 8 6 5 15

176

D1-1; 2.250" Radius, 0.750" Border

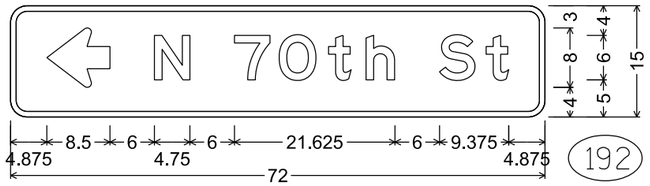
NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E except as noted.

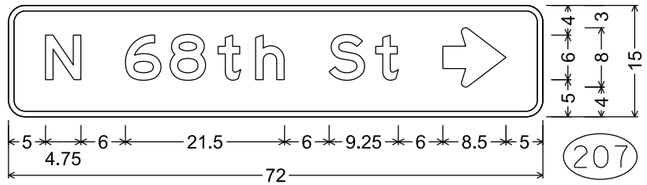
7

7

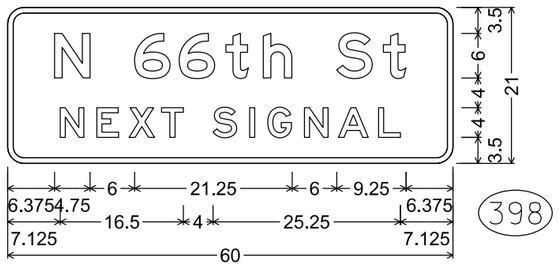
PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET NO: 632	E



D1-1; 2.250" Radius, 0.750" Border



D1-1; 2.250" Radius, 0.750" Border



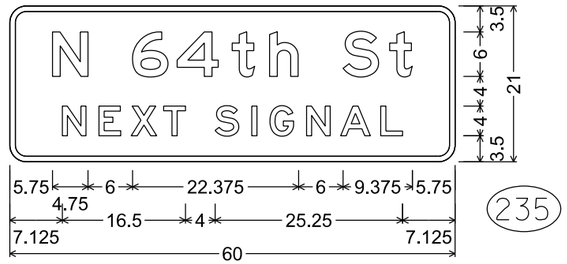
D1-65; 2.250" Radius, 0.750" Border

D1-1; 2.250" Radius, 0.750" Border



M1-94S; 3.000" Radius, No border, White on, Brown;
"W", D; "Brown", D; "Deer", D; "Rd", D;

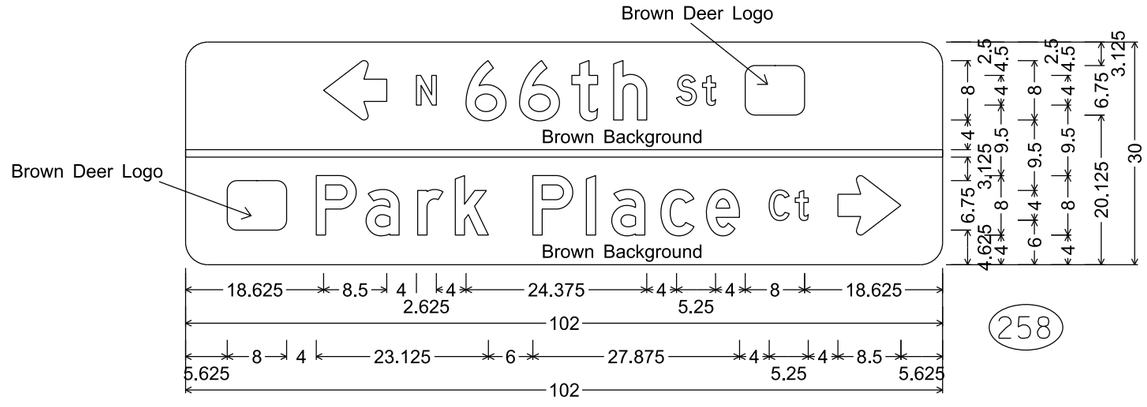
228 261 263
283 295 314
416 417



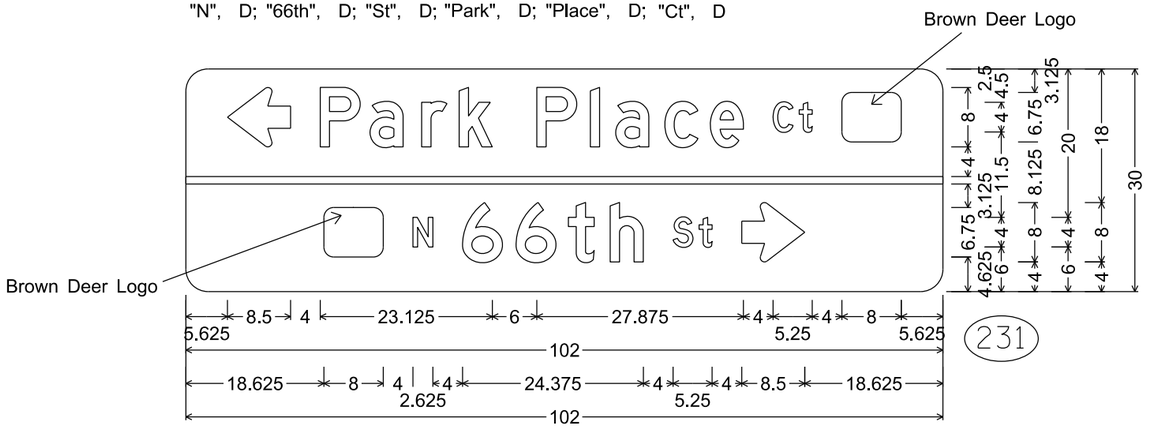
D1-65; 2.250" Radius, 0.750" Border

NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green except as noted.
   Message - White
3. Message Series - E except as noted.



M1-94H; 3.000" Radius, No border, White on, Brown;
"N", D; "66th", D; "St", D; "Park", D; "Place", D; "Ct", D



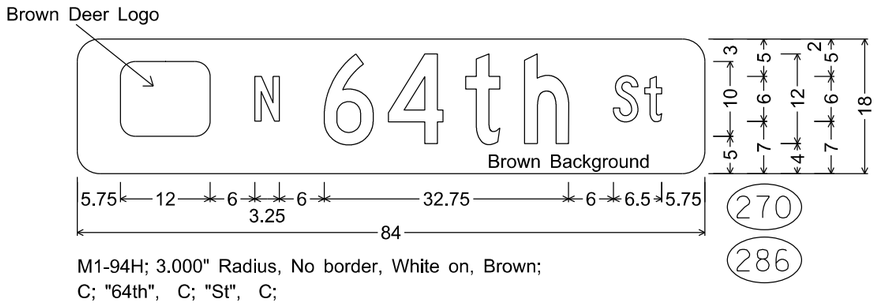
M1-94H; 3.000" Radius, No border, White on, Brown;
"Park", D; "Place", D; "Ct", D; "N", D; "66th", D; "St", D

7

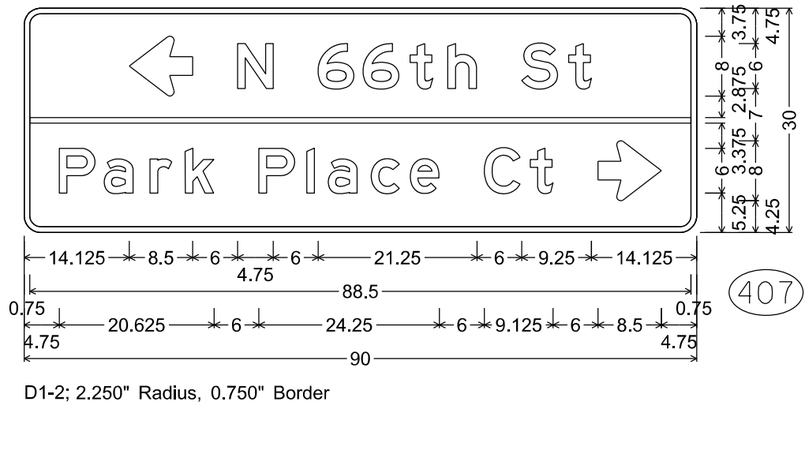
7

NOTES

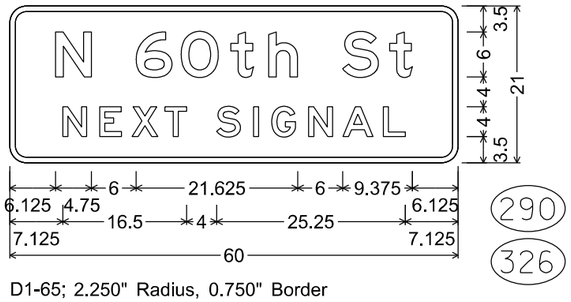
1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green except as noted.
   Message - White
3. Message Series - E except as noted.



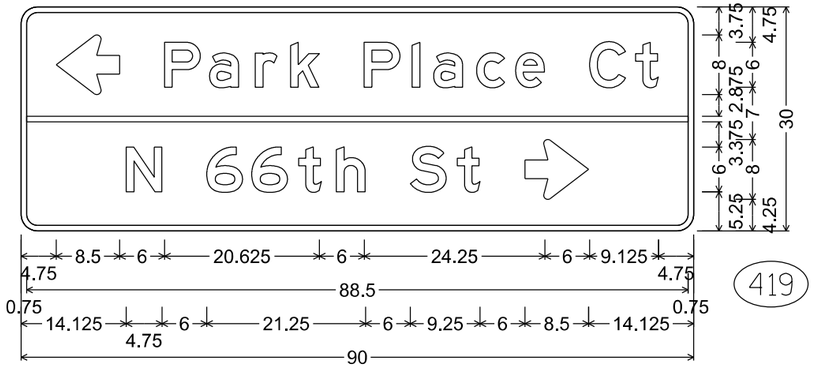
M1-94H; 3.000" Radius, No border, White on, Brown;
C; "64th", C; "St", C;



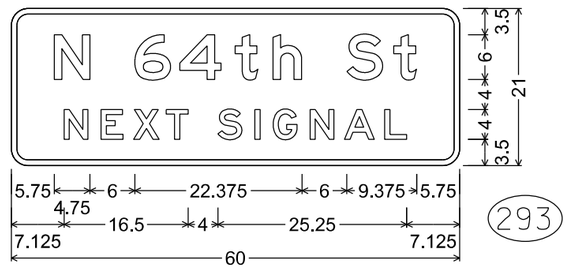
D1-2; 2.250" Radius, 0.750" Border



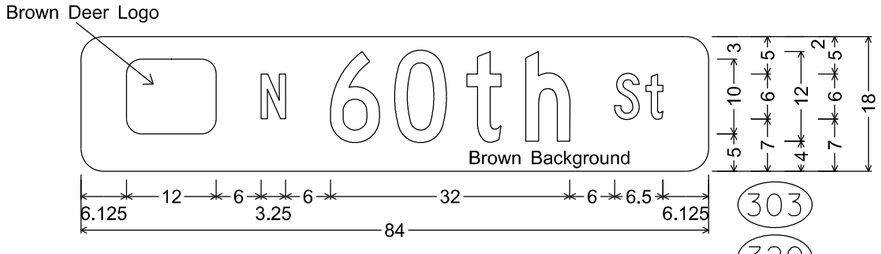
D1-65; 2.250" Radius, 0.750" Border



D1-2; 2.250" Radius, 0.750" Border



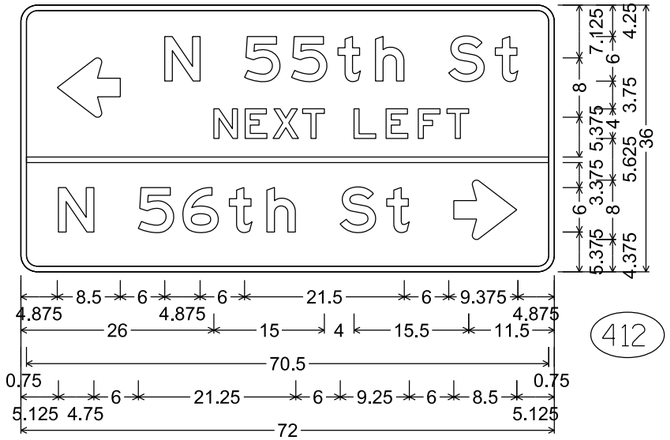
D1-65; 2.250" Radius, 0.750" Border



M1-94H; 3.000" Radius, No border, White on, Brown;
"N", C; "60th", C; "St", C;

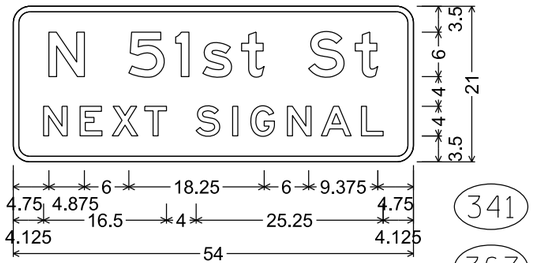
NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green except as noted.
   Message - White
3. Message Series - E except as noted.



412

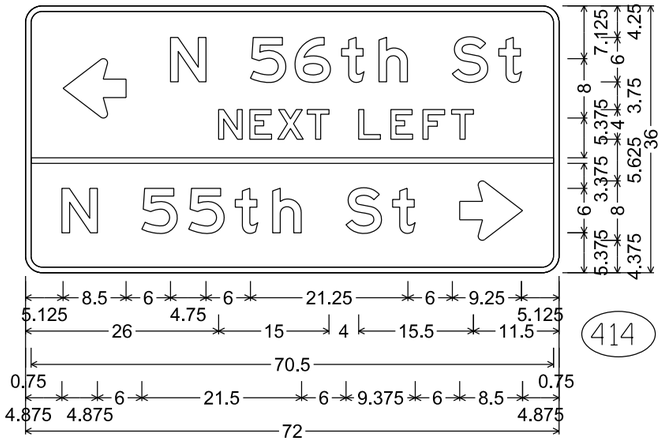
D1-2 (Mod); 2.250" Radius, 0.750" Border



341

367

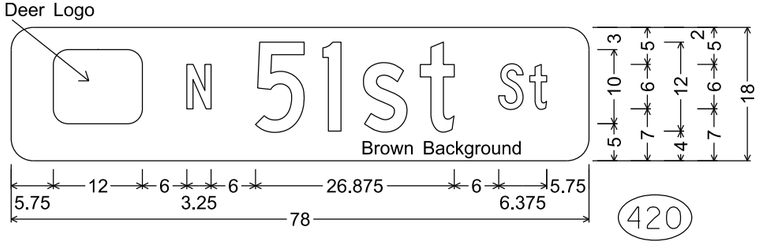
D1-65; 2.250" Radius, 0.750" Border



414

D1-2 (Mod); 2.250" Radius, 0.750" Border

Brown Deer Logo



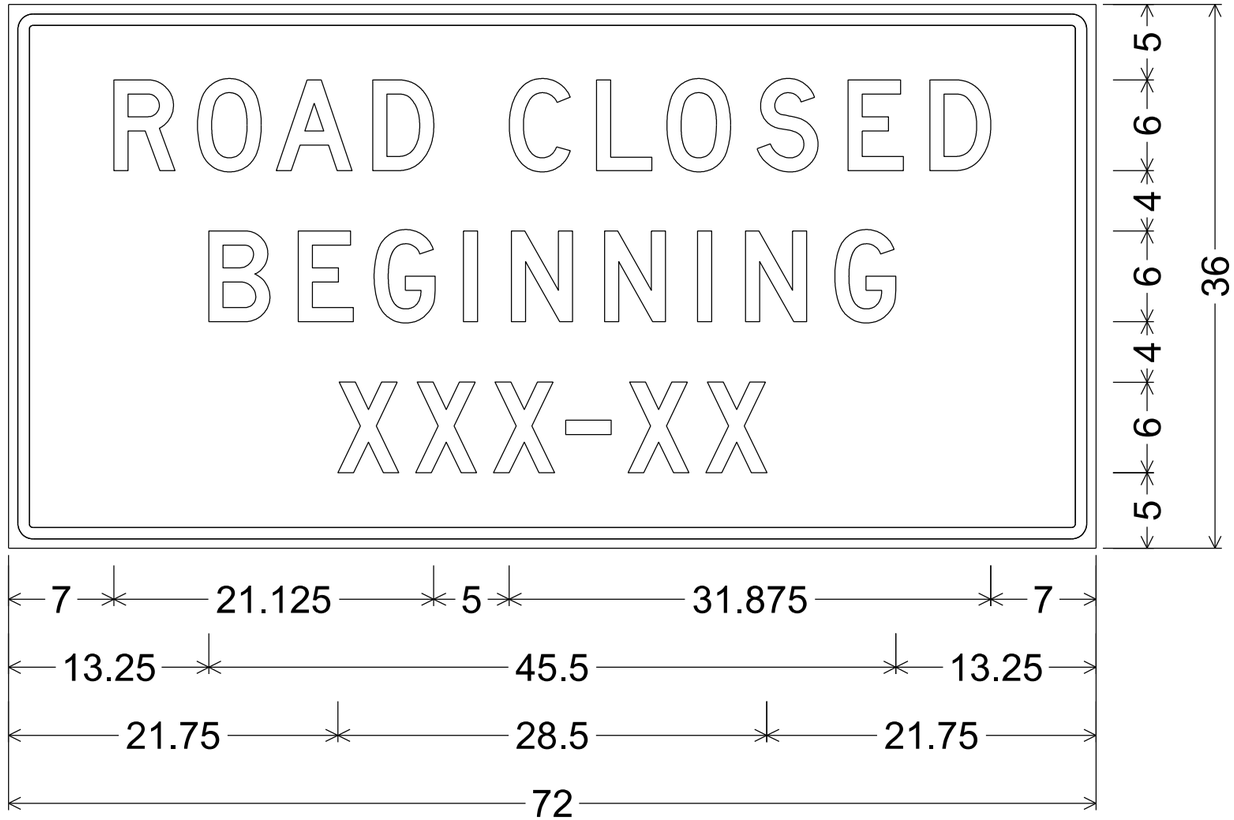
420

421

M1-94H; 3.000" Radius, No border, White on, Brown;
"N", C; "51st", C; "St", C;

NOTES

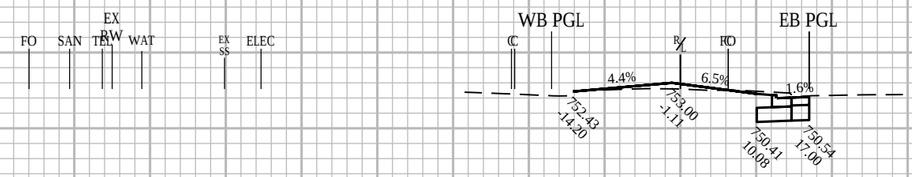
1. Fixed Message Sign Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D

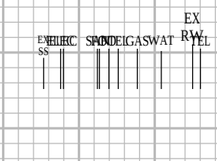


1.625" Radius, 0.750" Border, 0.625" Indent

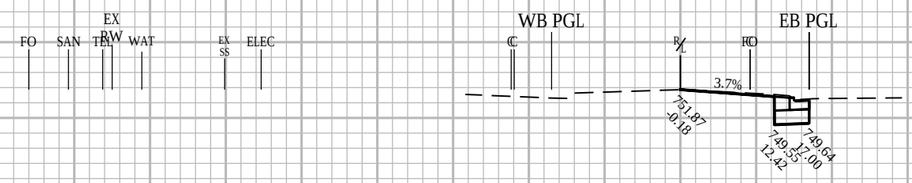
STH 100 - Stage 1								
STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut 1.00	Expanded Fill 1.20	
376+95.25	0.00	9.27	0.00	0	0	0	0	0
377+00	4.75	7.95	0.00	2	0	2	0	2
377+50	50.00	4.33	0.03	11	0	13	0	13
378+00	50.00	4.74	0.04	8	0	21	0	21
378+50	50.00	5.57	0.06	10	0	31	0	31
379+00	50.00	6.92	0.00	12	0	42	0	42
379+06.26	6.26	15.20	0.00	3	0	45	0	45
379+50	43.74	5.62	0.05	17	0	62	0	61
379+67.30	17.30	16.50	0.00	7	0	69	0	69
380+00	32.70	5.31	0.70	13	0	82	1	81
380+50	50.00	4.57	1.28	9	2	91	3	88
381+00	50.00	18.00	0.00	21	1	112	4	108
381+50	50.00	5.62	0.41	22	0	134	5	129
381+62.74	12.74	16.37	0.00	5	0	139	5	134
382+00 BK	37.26	8.22	0.00	17	0	156	5	151
383+50 AH	0.00	4.77	0.51	0	0	156	5	151
383+75	25.00	20.25	0.00	12	0	168	5	162
384+00	25.00	4.29	1.34	11	1	179	6	173
384+50	50.00	5.98	0.02	10	1	189	8	181
385+00	50.00	5.25	0.06	10	0	199	8	191
385+50	50.00	4.91	0.30	9	0	208	8	200
386+00	50.00	22.03	0.00	25	0	233	8	225
386+50	50.00	4.40	0.70	24	1	258	9	249
387+00	50.00	14.59	0.00	18	1	275	10	265
387+50	50.00	5.24	0.02	18	0	294	10	284
388+00	50.00	4.81	0.65	9	1	303	11	292
388+50 BK	50.00	5.62	0.05	10	1	313	12	301
404+00 AH	0.00	5.05	0.59	0	0	313	12	301
404+50	50.00	4.80	0.88	9	1	322	13	309
405+00	50.00	4.70	0.61	9	1	331	15	316
405+50	50.00	4.60	1.03	9	2	339	17	323
406+00	50.00	4.27	1.51	8	2	347	19	328
406+50	50.00	3.93	1.58	8	3	355	23	332
407+00	50.00	2.90	3.36	6	5	361	28	333
407+50	50.00	3.52	1.87	6	5	367	34	333
407+60.91	10.91	19.48	0.00	5	0	372	35	337
407+68.040	7.13	19.03	0.00	5	0	377	35	342
408+00	31.96	4.46	1.32	14	1	391	36	355
408+50	50.00	3.66	2.10	8	3	399	39	359
409+00	50.00	4.62	0.80	8	3	406	43	364
409+50	50.00	3.70	2.38	8	3	414	46	368
410+00	50.00	4.09	1.98	7	4	421	51	370
410+50	50.00	4.92	1.03	8	3	429	54	375
411+00	50.00	4.56	1.06	9	2	438	57	382
411+50	50.00	5.01	0.46	9	1	447	58	389
412+00	50.00	5.10	0.10	9	1	456	59	397
412+50	50.00	4.87	0.49	9	1	466	60	406
413+00	50.00	4.68	0.80	9	1	475	61	413
413+50	50.00	4.89	0.37	9	1	483	62	421
413+68.15 BK	18.15	7.03	0.00	4	0	487	62	425
		Totals		487	52			

STH 100 - Stage 2								
STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut 1.00	Expanded Fill 1.20	
293+13.99	0.00	9.00	0.00	0	0	0	0	0
293+50	36.01	13.47	0.18	15	0	15	0	15
294+00	50.00	22.10	9.40	33	9	48	11	37
294+50	50.00	27.54	3.93	46	12	94	26	68
294+75.87 BK	25.87	25.41	0.00	25	2	119	28	91
310+83.49 AH	0.00	7.97	0.00	0	0	119	28	91
311+00	16.51	12.08	0.72	6	0	125	28	97
311+50	50.00	30.49	0.45	39	1	165	29	135
312+00	50.00	30.90	0.11	57	1	222	30	192
312+50	50.00	27.53	0.87	54	1	276	31	245
313+00	50.00	25.07	2.54	49	3	324	35	290
313+12.71 BK	12.71	25.50	2.57	12	1	336	36	300
333+10.43 AH	0.00	28.16	0.00	0	0	336	36	300
333+50	39.57	34.01	0.00	46	0	382	36	346
334+00	50.00	38.84	0.00	67	0	449	36	413
334+50	50.00	33.15	0.00	67	0	516	36	480
335+00	50.00	12.99	0.00	43	0	559	36	522
335+21.81 BK	21.81	7.06	0.15	8	0	567	36	530
351+67.99 AH	0.00	9.34	0.00	0	0	567	36	530
352+00	32.01	16.03	0.00	15	0	582	36	545
352+50	50.00	30.20	0.00	43	0	625	36	588
353+00	50.00	26.27	1.02	52	1	677	38	639
353+50	50.00	25.65	1.05	48	2	725	40	685
354+00	50.00	26.35	1.07	48	2	773	42	731
354+50	50.00	51.27	0.00	72	1	845	43	802
354+77.49 BK	27.49	58.75	0.00	56	0	901	43	858
362+28.85 AH	0.00	6.88	0.09	0	0	901	43	858
362+50	21.15	6.87	0.28	5	0	906	44	863
363+00	50.00	29.74	3.12	34	3	940	47	893
363+50	50.00	30.07	0.00	55	3	996	51	945
363+78.00 BK	28.01	22.56	0.00	27	0	1,023	51	972
366+06.97 AH	0.00	14.58	0.22	0	0	1,023	51	972
366+50	43.03	13.90	3.35	23	3	1,046	54	991
367+00	50.00	15.78	0.02	27	3	1,073	58	1,015
367+50	50.00	24.80	7.14	38	7	1,111	66	1,045
368+00	50.00	52.44	0.00	72	7	1,182	74	1,108
368+50	50.00	15.49	2.11	63	2	1,245	76	1,169
369+01.91 BK	51.91	11.52	0.00	26	2	1,271	79	1,193
371+27.90 AH	0.00	52.07	0.00	0	0	1,271	79	1,193
371+50	22.10	42.24	0.07	39	0	1,310	79	1,231
372+00	50.00	30.62	0.00	67	0	1,377	79	1,298
372+50	50.00	30.31	0.00	56	0	1,434	79	1,355
373+00	50.00	27.16	0.00	53	0	1,487	79	1,408
373+50	50.00	21.77	0.00	45	0	1,532	79	1,453
373+83.39 BK	33.39	5.63	0.82	17	1	1,549	79	1,470
378+50 AH	0.00	12.31	0.00	0	0	1,549	79	1,470
379+00	50.00	31.67	0.00	41	0	1,590	79	1,510
379+06.26	6.26	34.07	0.00	8	0	1,597	79	1,518
379+50	43.74	49.71	0.00	68	0	1,665	79	1,586
379+67.30	17.30	52.46	0.00	33	0	1,698	79	1,619
380+00	32.70	53.50	0.00	64	0	1,762	79	1,683
380+50	50.00	48.31	0.00	94	0	1,856	79	1,777
381+00	50.00	47.01	0.00	88	0	1,945	79	1,865
381+50	50.00	45.51	0.00	86	0	2,030	79	1,951
381+62.44	12.44	44.96	0.00	21	0	2,051	79	1,972
382+00	37.56	43.26	0.00	61	0	2,113	79	2,033
382+50	50.00	46.31	0.00	83	0	2,196	79	2,116
382+66.53 BK	16.53	47.70	0.00	29	0	2,224	79	2,145
383+34.55 AH	0.00	51.52	0.00	0	0	2,224	79	2,145
383+50	15.45	51.63	0.00	30	0	2,254	79	2,174
383+75	25.00	59.19	0.00	51	0	2,305	79	2,226
384+00	25.00	46.69	0.00	49	0	2,354	79	2,275
384+50	50.00	43.44	0.17	83	0	2,438	80	2,358
385+00	50.00	41.16	0.65	78	1	2,516	80	2,435
385+50	50.00	56.18	0.00	90	1	2,606	81	2,525
386+00	50.00	58.18	0.00	106	0	2,712	81	2,631
386+50	50.00	63.15	0.00	112	0	2,824	81	2,743
387+00	50.00	45.10	0.00	100	0	2,925	81	2,843
387+50	50.00	49.47	0.00	88	0	3,012	81	2,931
388+00	50.00	48.94	0.00	91	0	3,103	81	3,022
388+50	50.00	45.57	0.00	88	0	3,191	81	3,110
389+00	50.00	49.50	0.00	88	0	3,279	81	3,198
389+28.87 BK	28.87	47.02	0.00	52	0	3,330	81	3,249
389+93.60 AH	0.00	52.37	0.00	0	0	3,330	81	3,249
390+00	6.40	54.82	0.00	13	0	3,343	81	3,262
390+50	50.00	48.47	0.00	96	0	3,439	81	3,357
391+00	50.00	50.80	0.00	92	0	3,531	81	3,449
391+50	50.00	50.52	0.00	94	0	3,624	81	3,543
392+00	50.00	50.49	0.00	94	0	3,718	81	3,637
392+50	50.00	33.52	0.00	78	0	3,796	81	3,715
393+00	50.00	28.99	0.00	58	0	3,854	81	3,772
393+50	50.00	14.31	0.00	40	0	3,894	81	3,813
393+72.10 BK	22.10	7.68	0.00	9	0	3,903	81	3,822
398+41.20 AH	0.00	7.93	0.00	0	0	3,903	81	3,822
398+50	8.80	11.59	0.00	3	0	3,906	81	3,825
399+00	50.00	29.42	0.00	38	0	3,944	81	3,863
399+50	50.00	44.63	0.00	69	0	4,012	81	3,931
400+00	50.00	57.85	0.00	95	0	4,107	81	4,026
400+50	50.00	64.10	0.00	113	0	4,220	81	4,139
401+00	50.00	61.63	0.00	116	0	4,337	81	4,255
401+50	50.00	60.21	0.00	113	0	4,449	81	4,368
402+00	50.00	56.49	0.00	108	0	4,558	81	4,476
402+50	50.00	51.50	0.00	100	0	4,658	81	4,576
402+57.05 BK	7.05	51.29	0.00	13	0	4,671	81	4,590
403+19.83 AH	0.00	51.36	0.00	0	0	4,671	81	4,590
403+50	30.17	62.10	0.00	63	0	4,734	81	4,653
404+00	50.00	55.71	0.00	109	0	4,843	81	4,762
404+50	50.00	55.07	0.00	103	0	4,946	81	4,865
405+00	50.00	52.50	0.00	100	0	5,046	81	4,964
405+50	50.00	50.26	0.00	95	0	5,141	81	5,060
406+00	50.00	43.59	0.00	87	0	5,228	81	5,146
406+50	50.00	33.27	0.00	71	0	5,299	81	5,218
407+00	50.00	23.68	0.00	53	0	5,352	81	5,270
407+50	50.00	10.20	0.00	31	0	5,383	81	5,302
407+60.90 BK	10.90	7.51	0.00	4	0	5,386	81	5,305
			Totals	5,386	68			





293+50





293+14



9

9

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 639	E

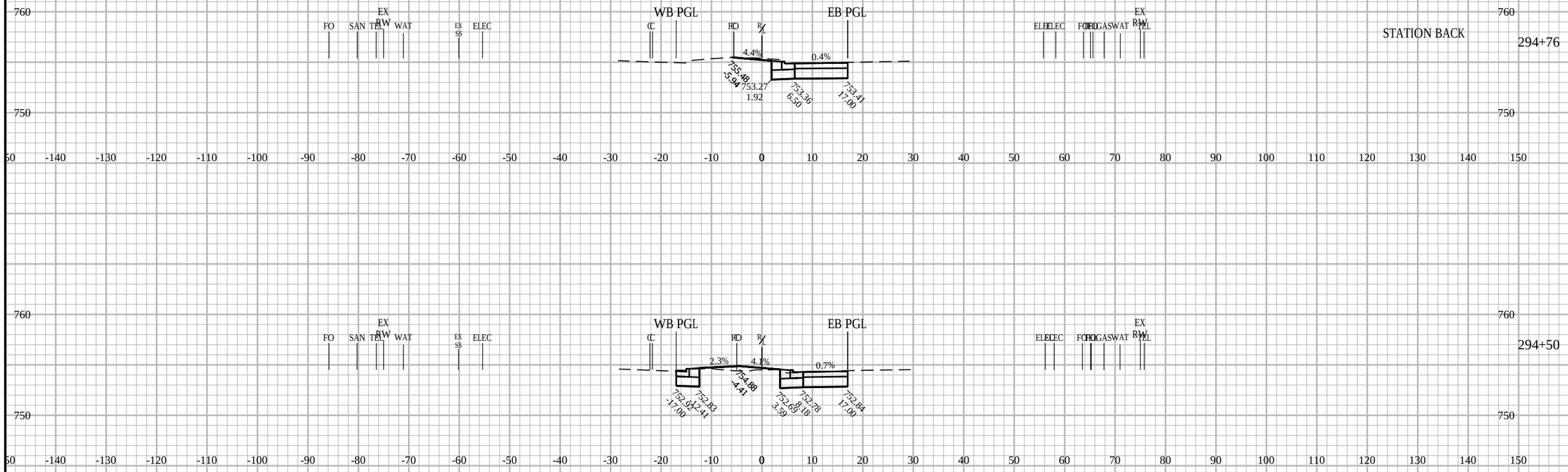
FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs01

PLOT DATE : 10/7/2020 9:05 AM

PLOT BY : BLACKWOOD, JIM

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 640	E

FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs02

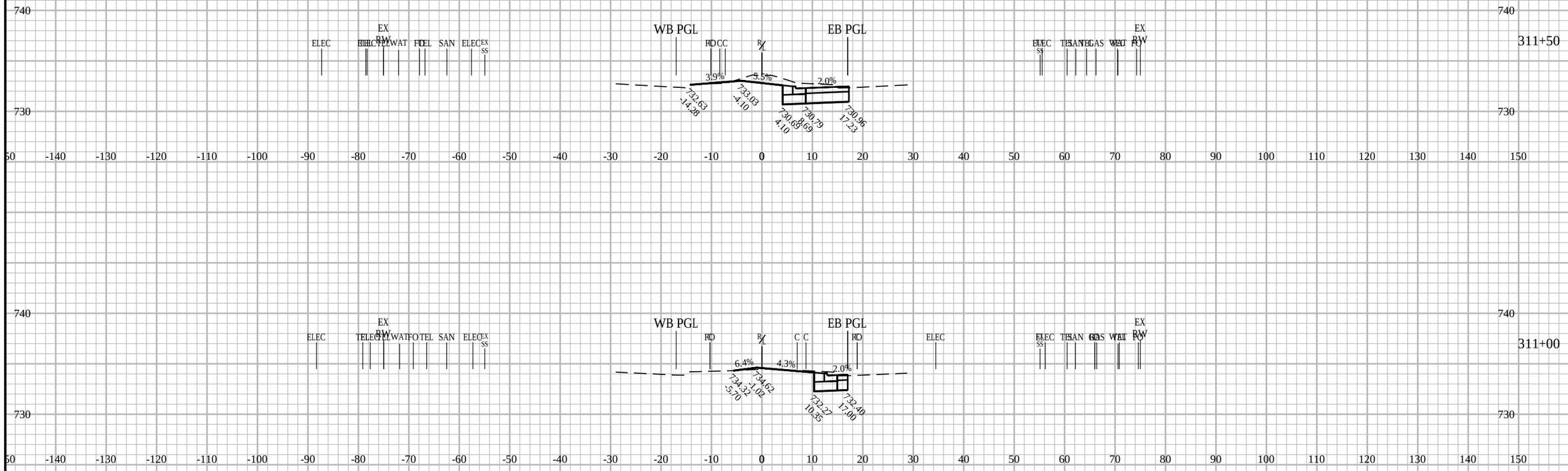
PLOT DATE : 10/7/2020 9:05 AM

PLOT BY : BLACKWOOD, JIM

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 641	E

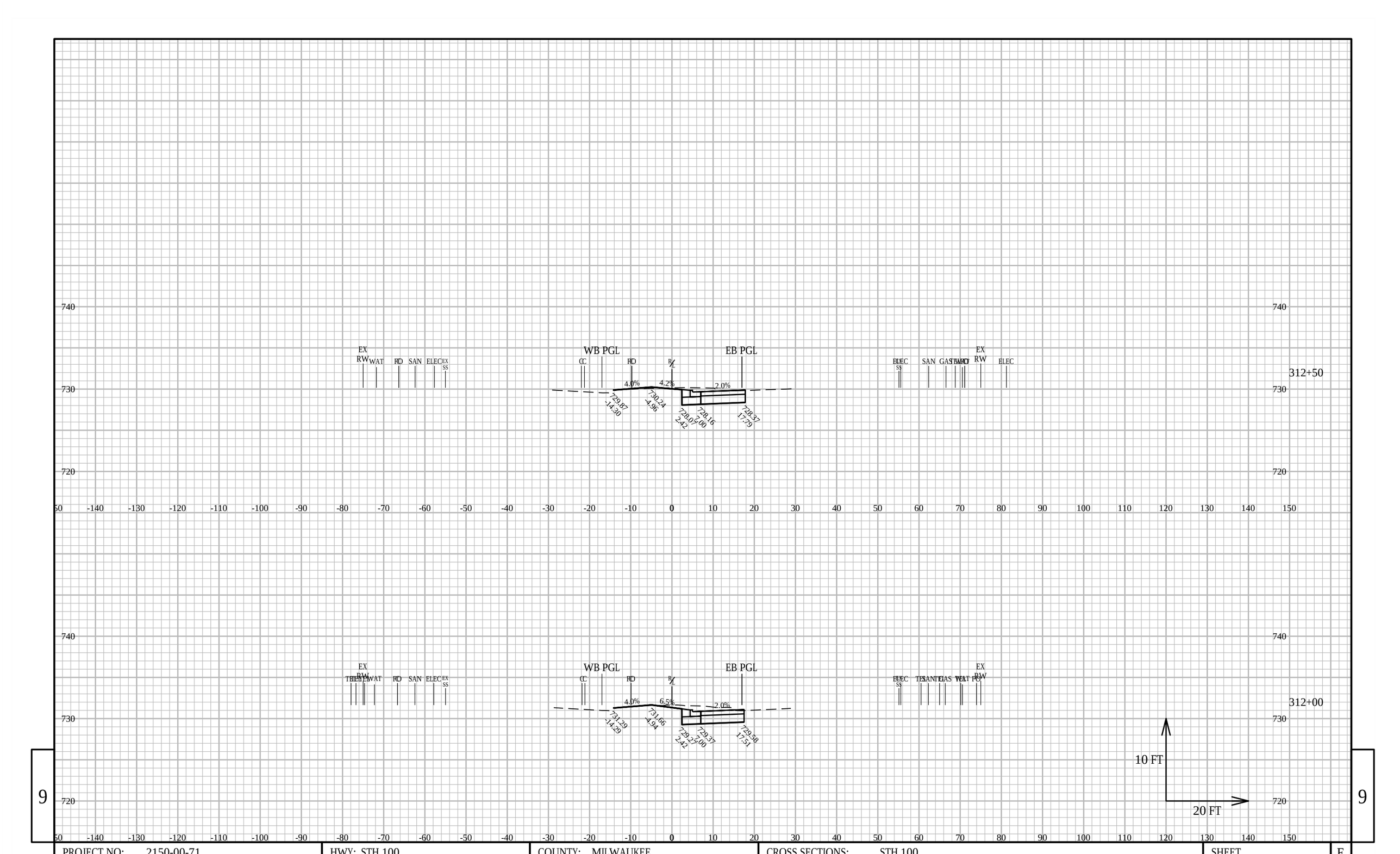
FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs03

PLOT DATE : 10/7/2020 9:05 AM

PLOT BY : BLACKWOOD, JIM

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 642 E

FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs04

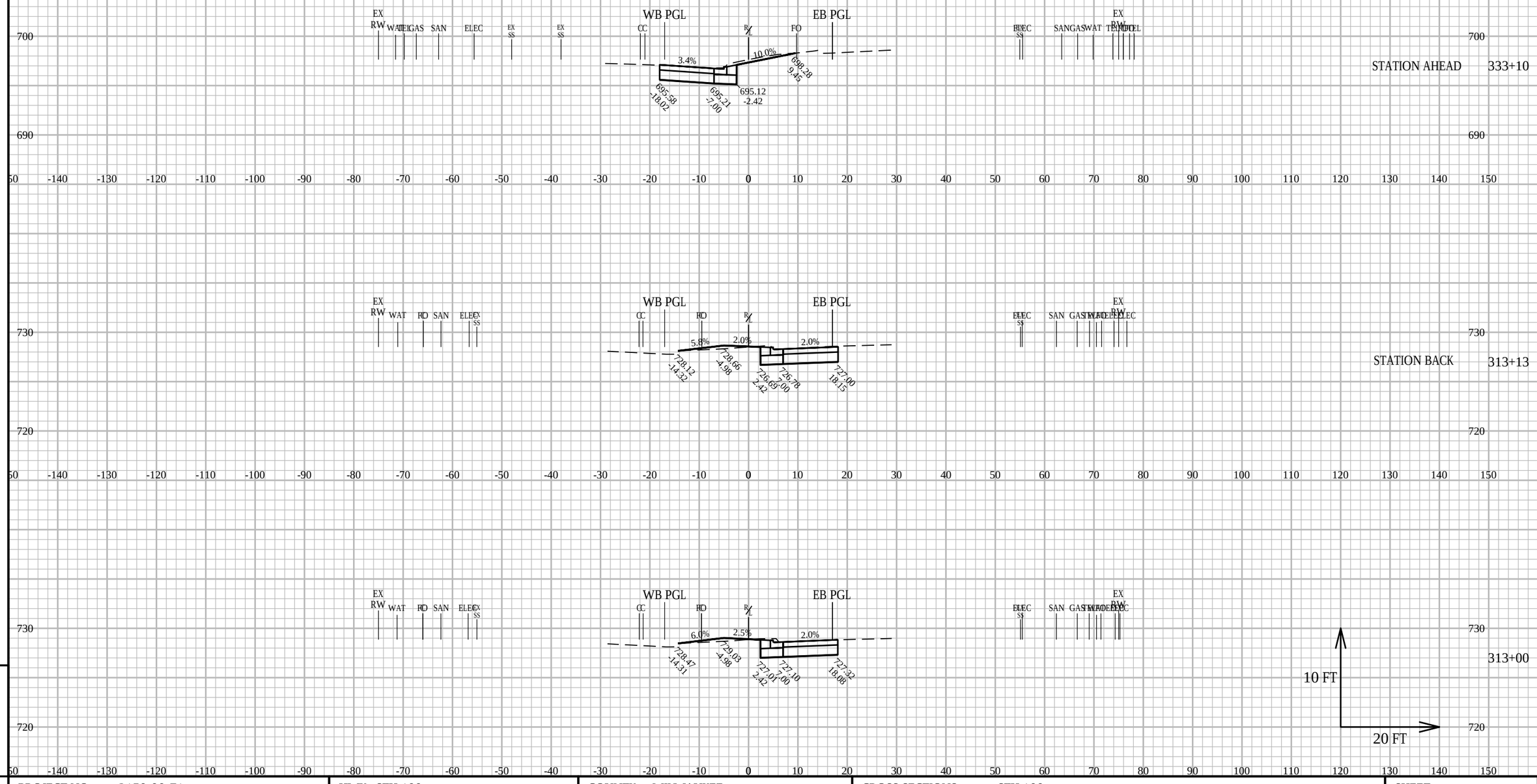
PLOT DATE : 10/7/2020 9:06 AM

PLOT BY : BLACKWOOD, JIM

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 643	E

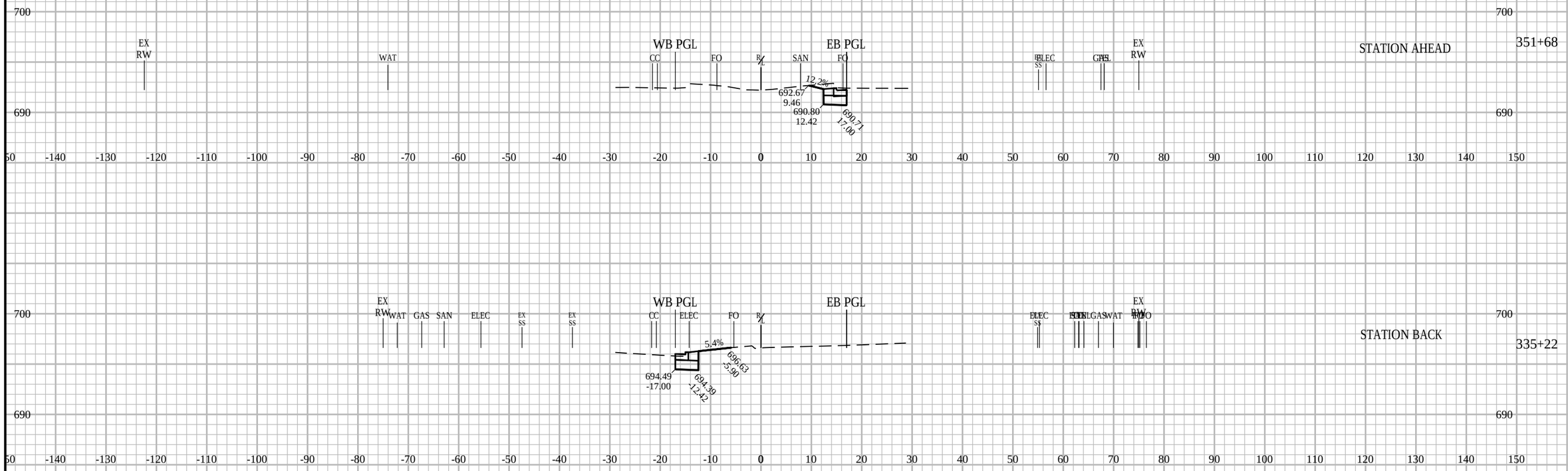
FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs05
PLOT DATE : 10/7/2020 9:06 AM
PLOT BY : BLACKWOOD, JIM
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

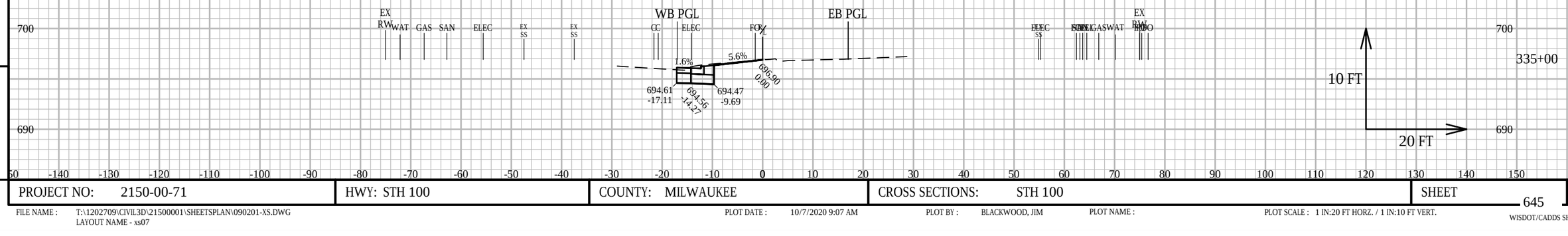
9

9

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 644	E

FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs06
PLOT DATE : 10/7/2020 9:06 AM
PLOT BY : BLACKWOOD, JIM
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49





9

9

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 645	E

FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs07

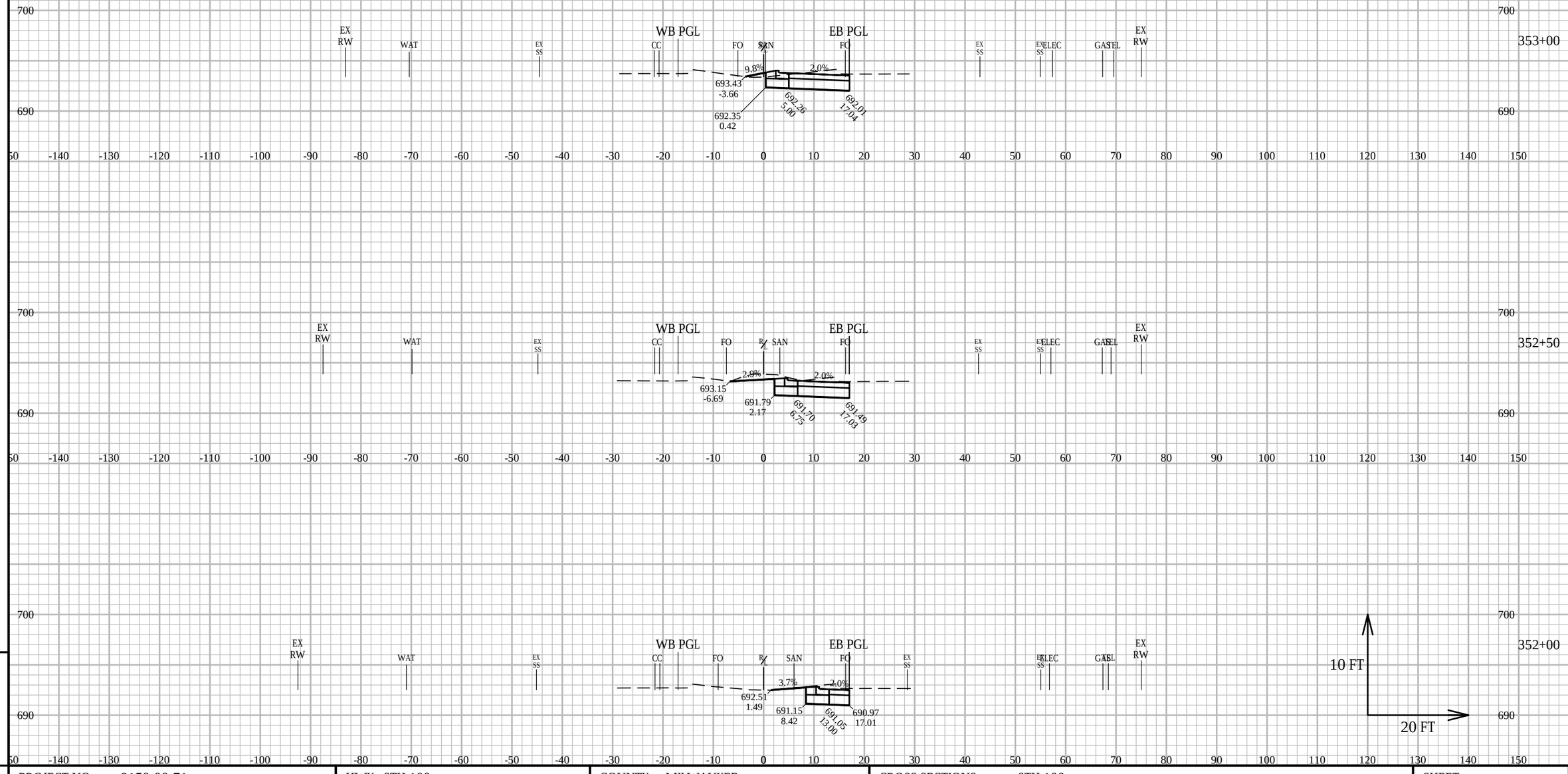
PLOT DATE : 10/7/2020 9:07 AM

PLOT BY : BLACKWOOD, JIM

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 646	E

FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs08
PLOT DATE : 10/7/2020 9:07 AM
PLOT BY : BLACKWOOD, JIM
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

9

9

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 647	E

FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs09

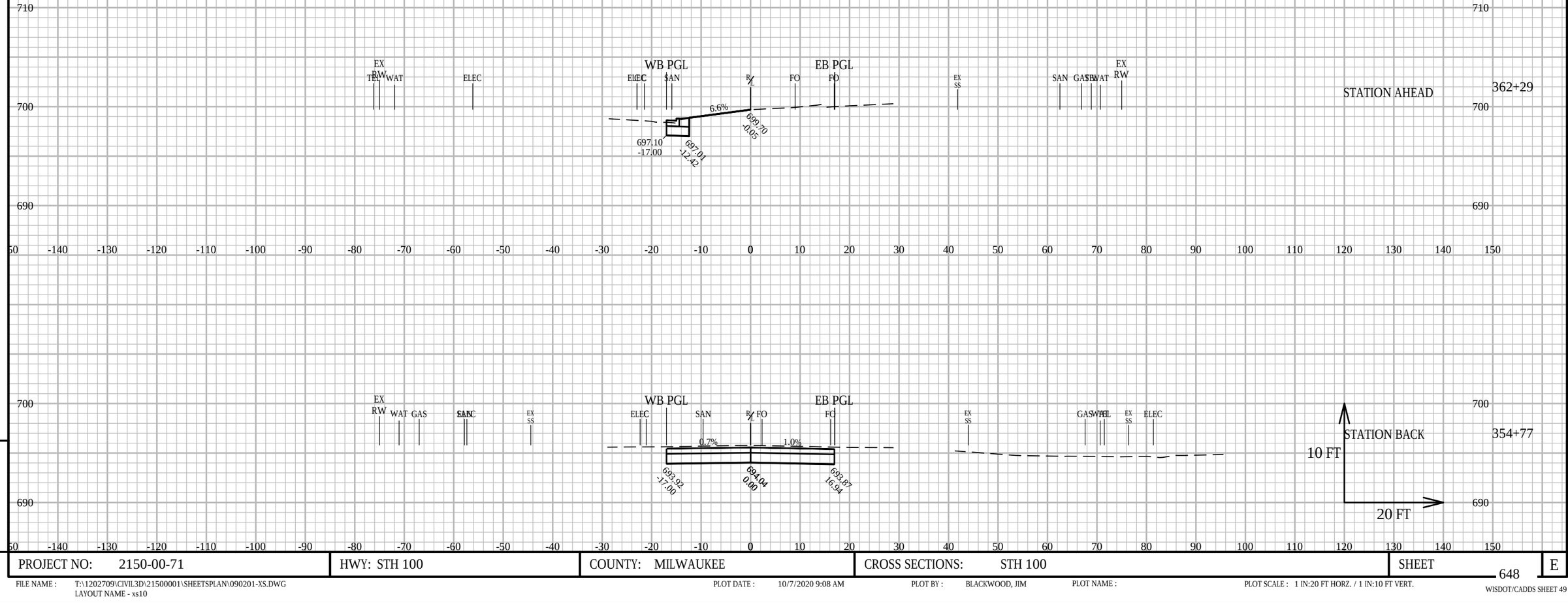
PLOT DATE : 10/7/2020 9:08 AM

PLOT BY : BLACKWOOD, JIM

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 648	E

FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs10

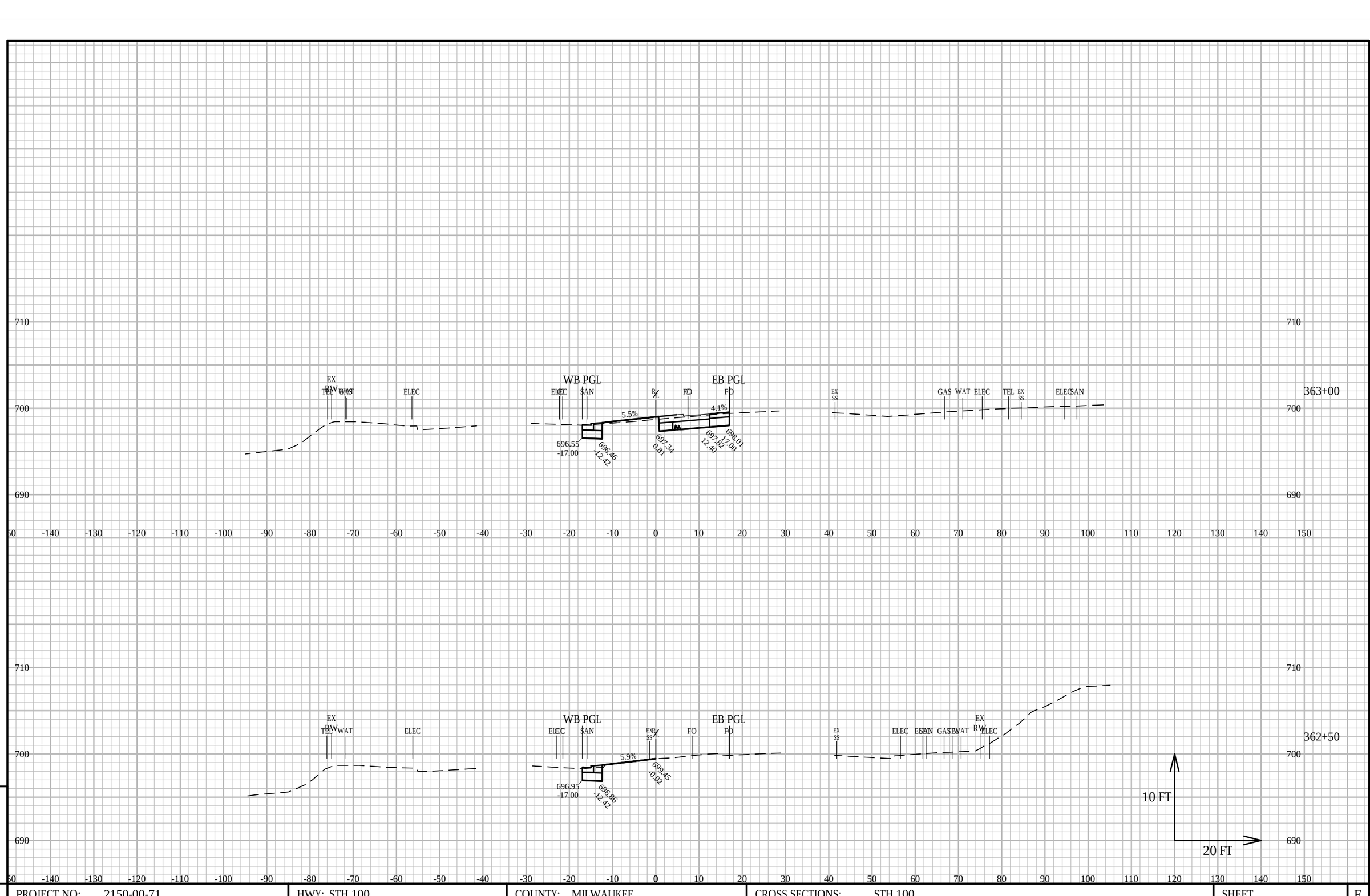
PLOT DATE : 10/7/2020 9:08 AM

PLOT BY : BLACKWOOD, JIM

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 649	E

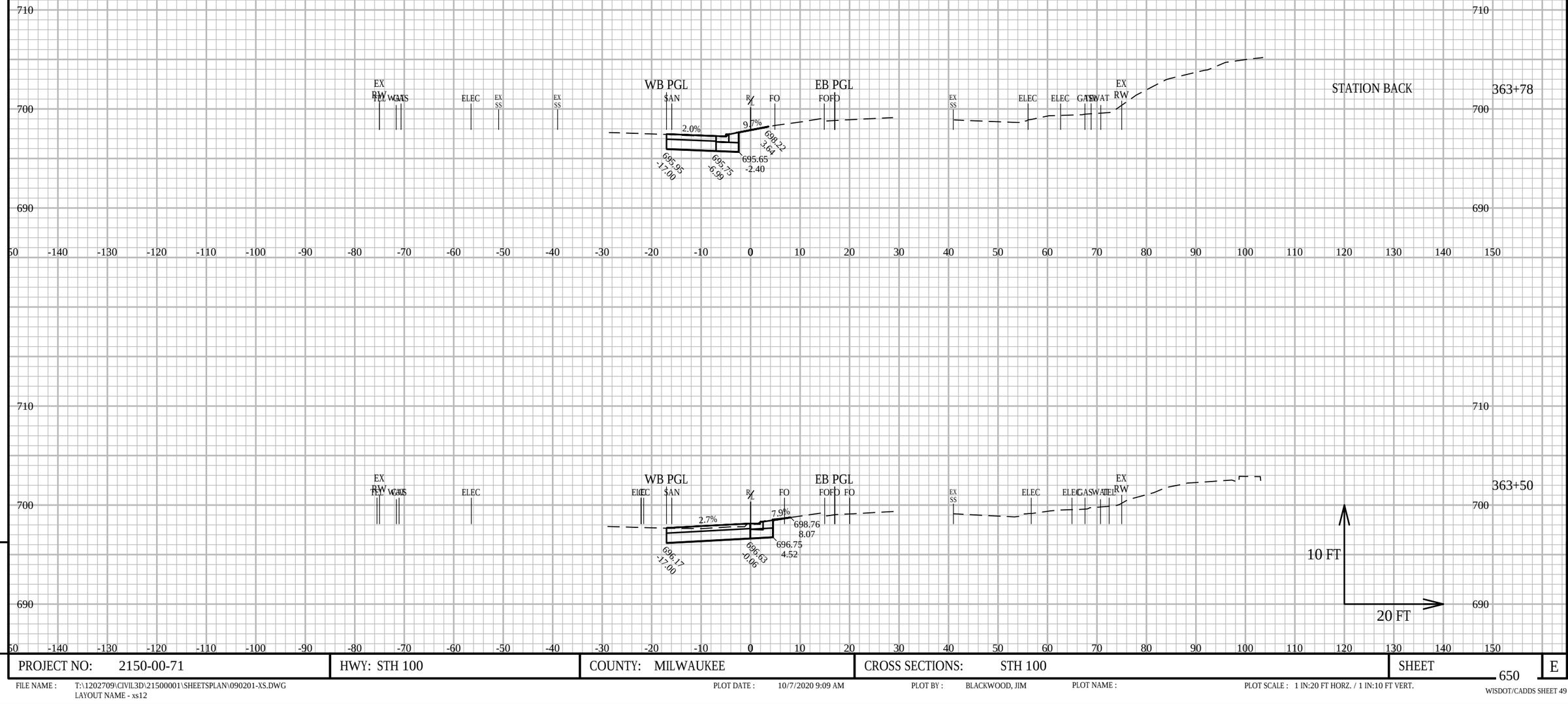
FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs11

PLOT DATE : 10/7/2020 9:08 AM

PLOT BY : BLACKWOOD, JIM

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 650	E

FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs12

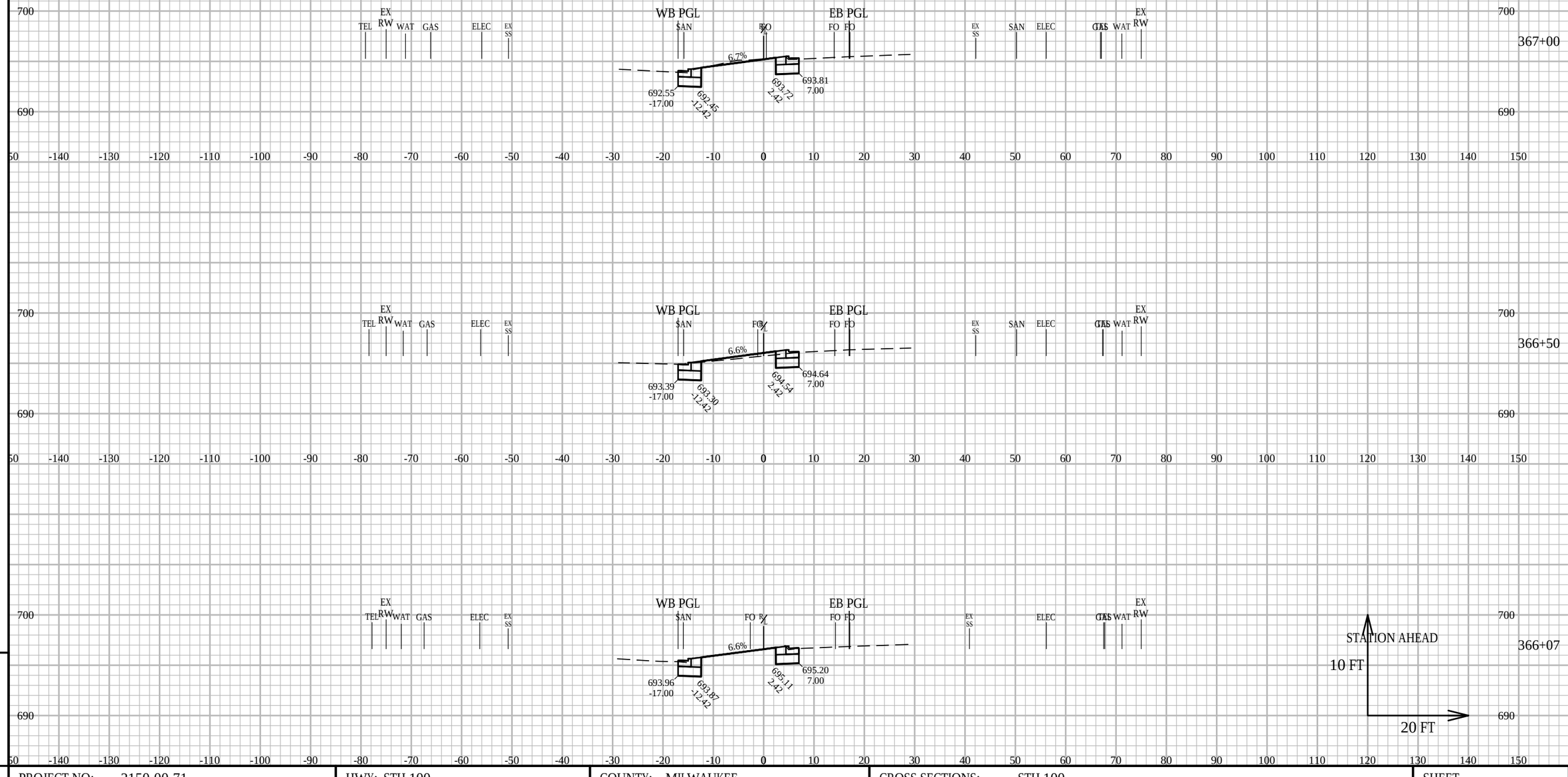
PLOT DATE : 10/7/2020 9:09 AM

PLOT BY : BLACKWOOD, JIM

PLOT NAME :

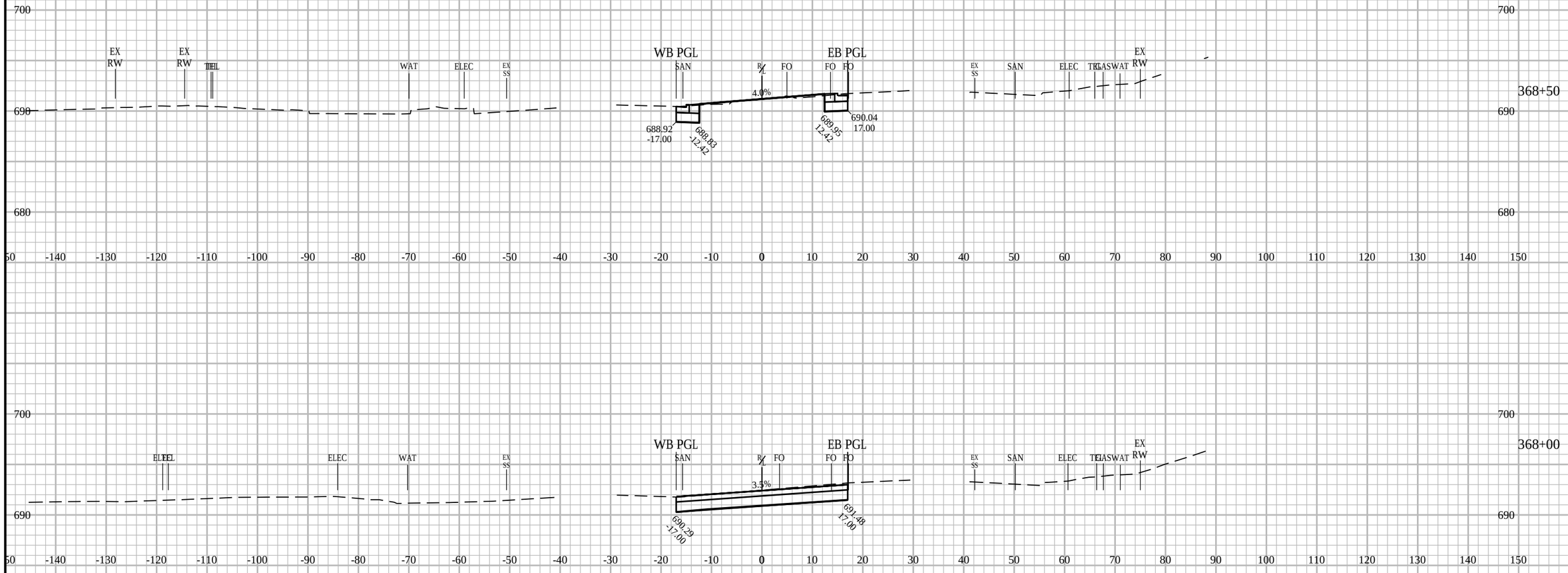
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 651	E

FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs13
PLOT DATE : 10/7/2020 9:09 AM
PLOT BY : BLACKWOOD, JIM
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 652 E

FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs14

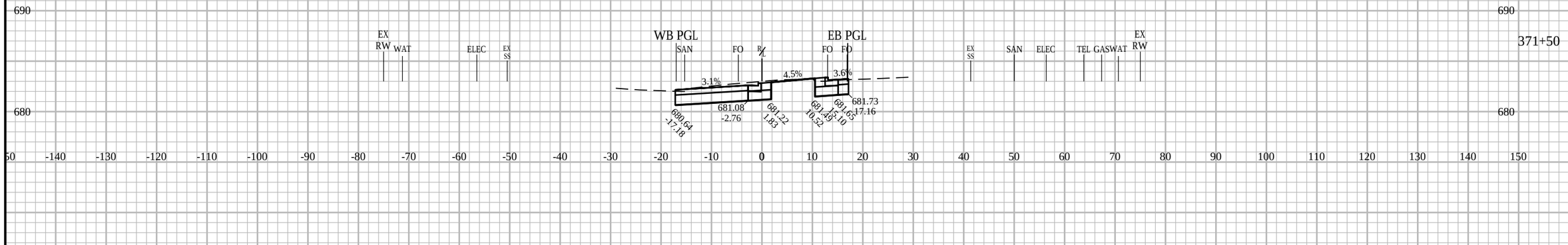
PLOT DATE : 10/7/2020 9:09 AM

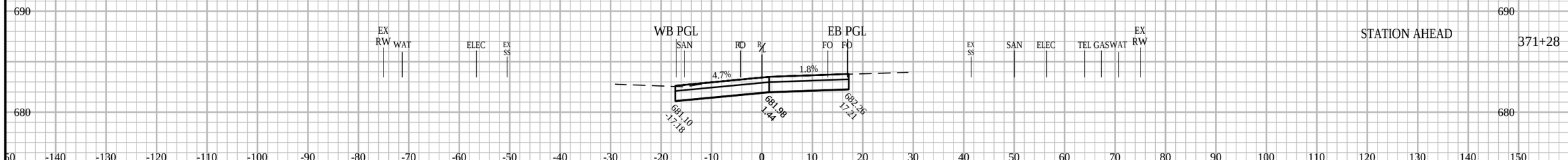
PLOT BY : BLACKWOOD, JIM

PLOT NAME :

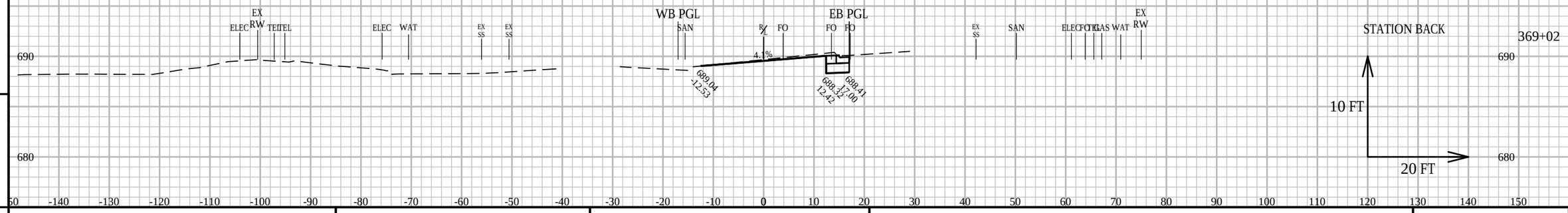
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





STATION AHEAD



9

9

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 653	E

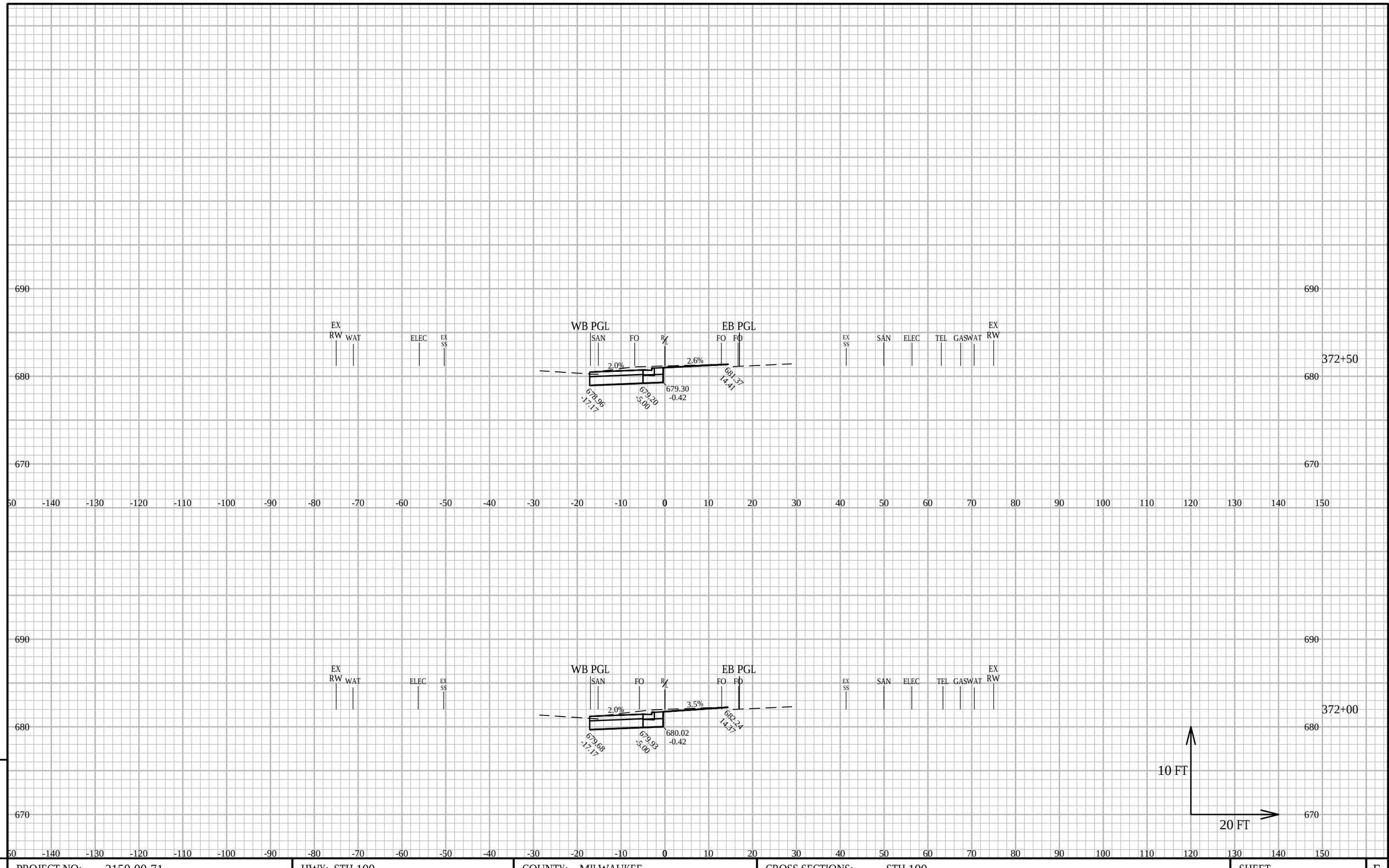
FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs15

PLOT DATE : 10/7/2020 9:10 AM

PLOT BY : BLACKWOOD, JIM

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 654 E

FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs16

PLOT DATE : 10/7/2020 9:10 AM

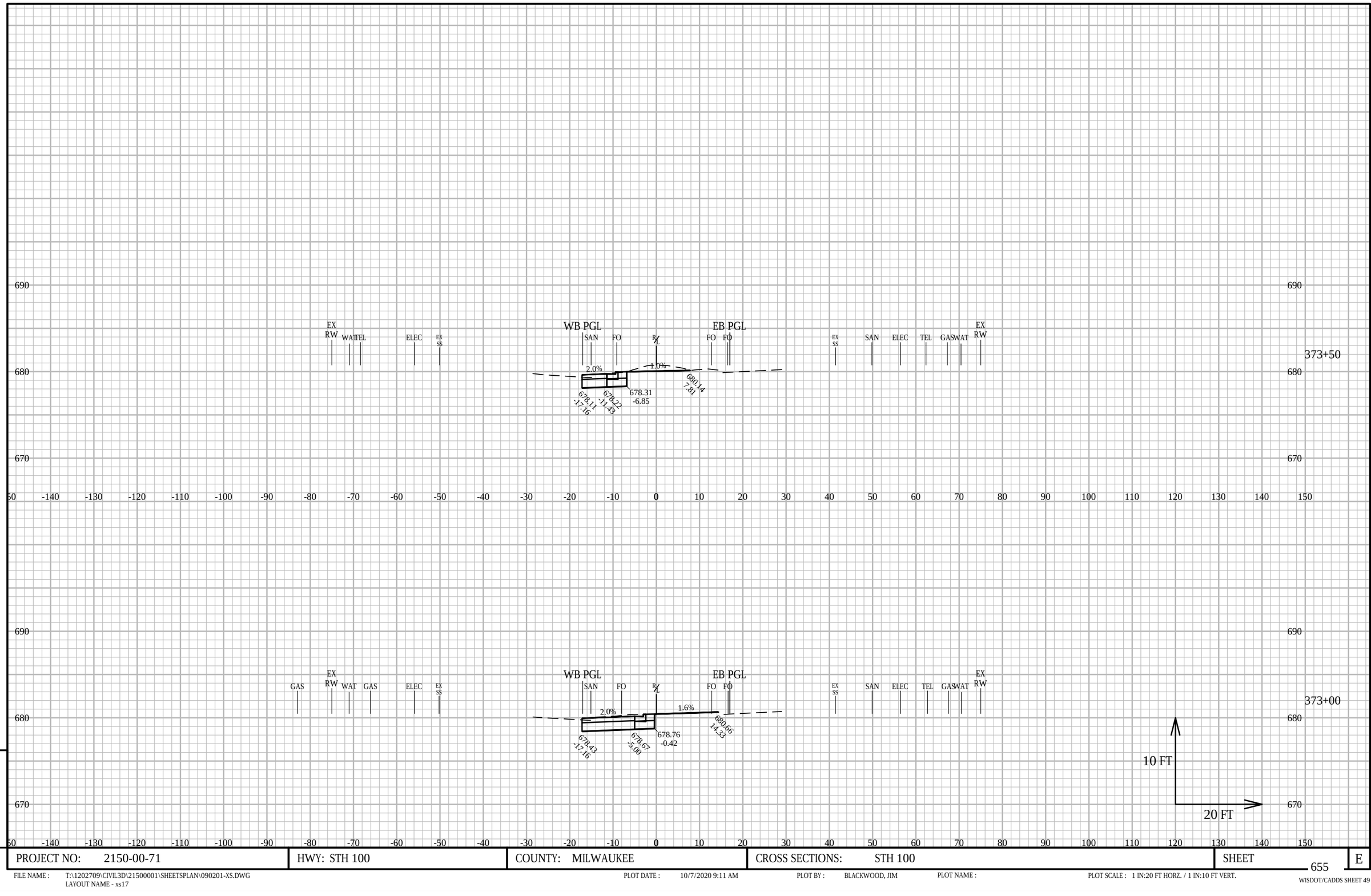
PLOT BY : BLACKWOOD, JIM

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

9

9



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 655	E

FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs17

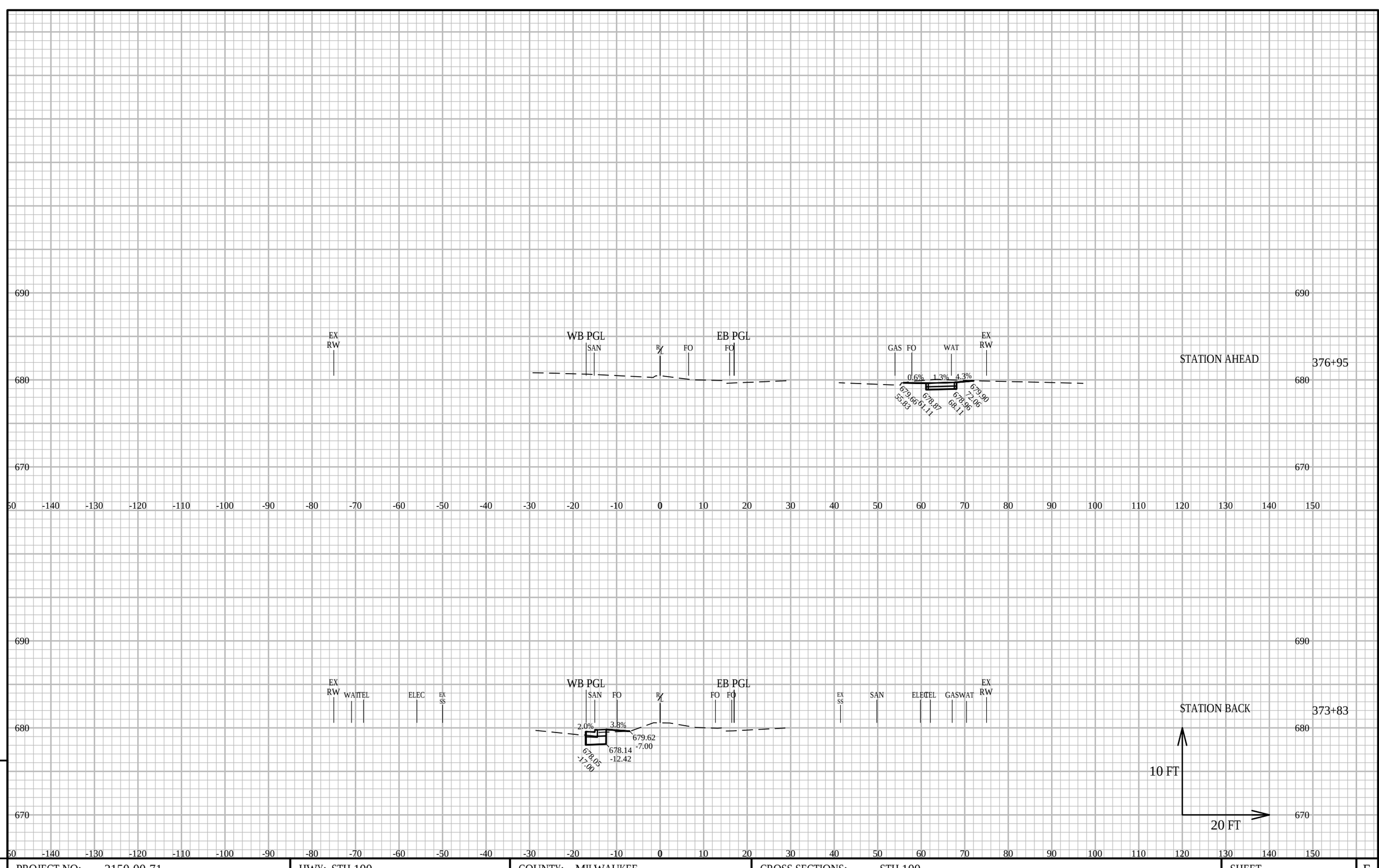
PLOT DATE : 10/7/2020 9:11 AM

PLOT BY : BLACKWOOD, JIM

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

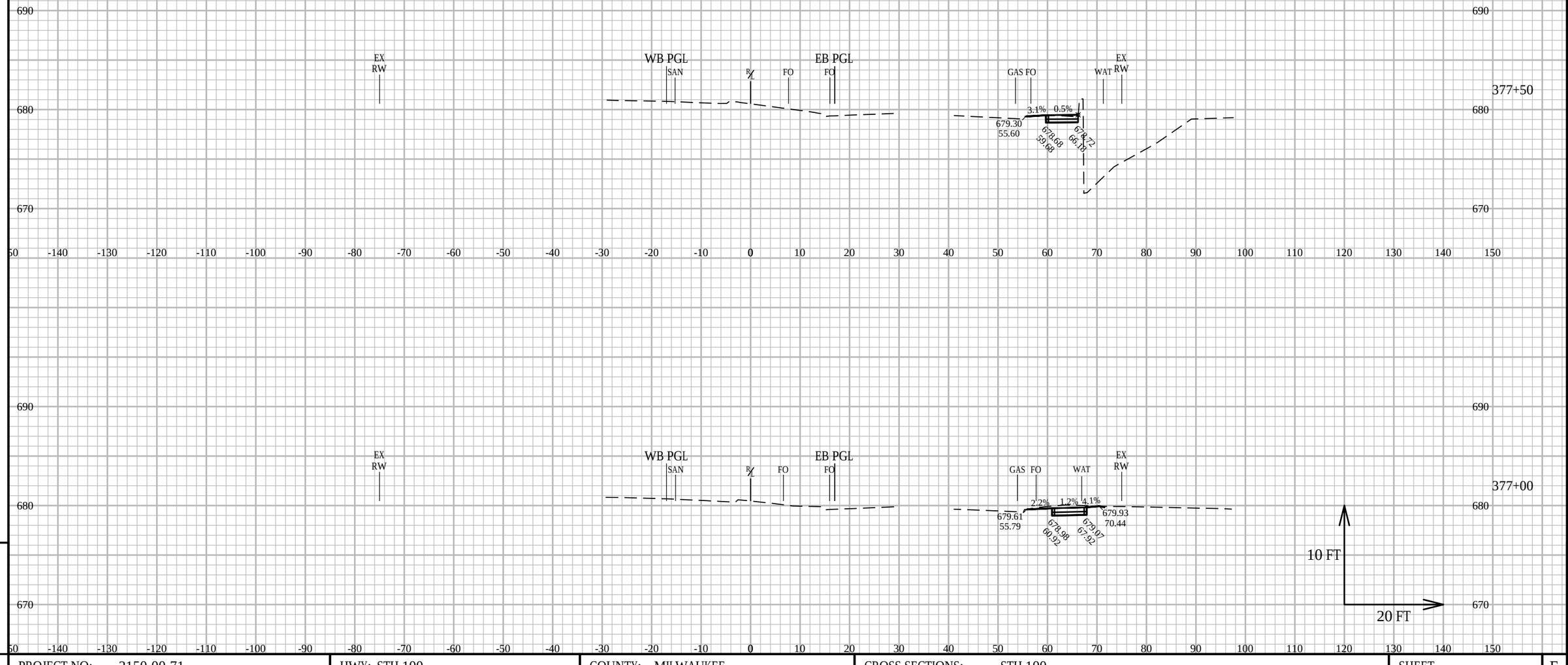


9

9

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 656	E

FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs18
PLOT DATE : 10/7/2020 9:11 AM
PLOT BY : BLACKWOOD, JIM
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 657	E

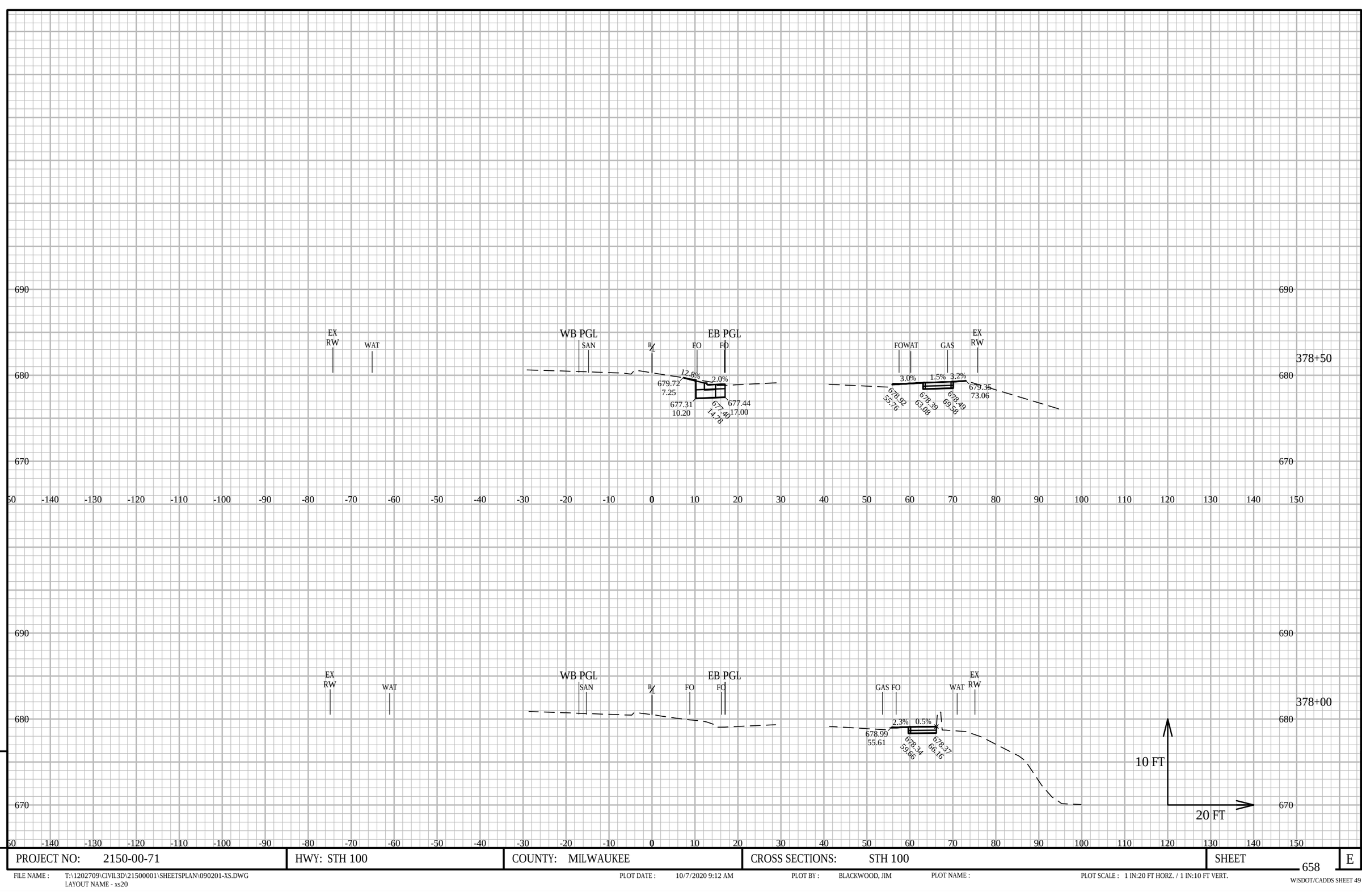
FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs19

PLOT DATE : 10/7/2020 9:11 AM

PLOT BY : BLACKWOOD, JIM

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 658	E

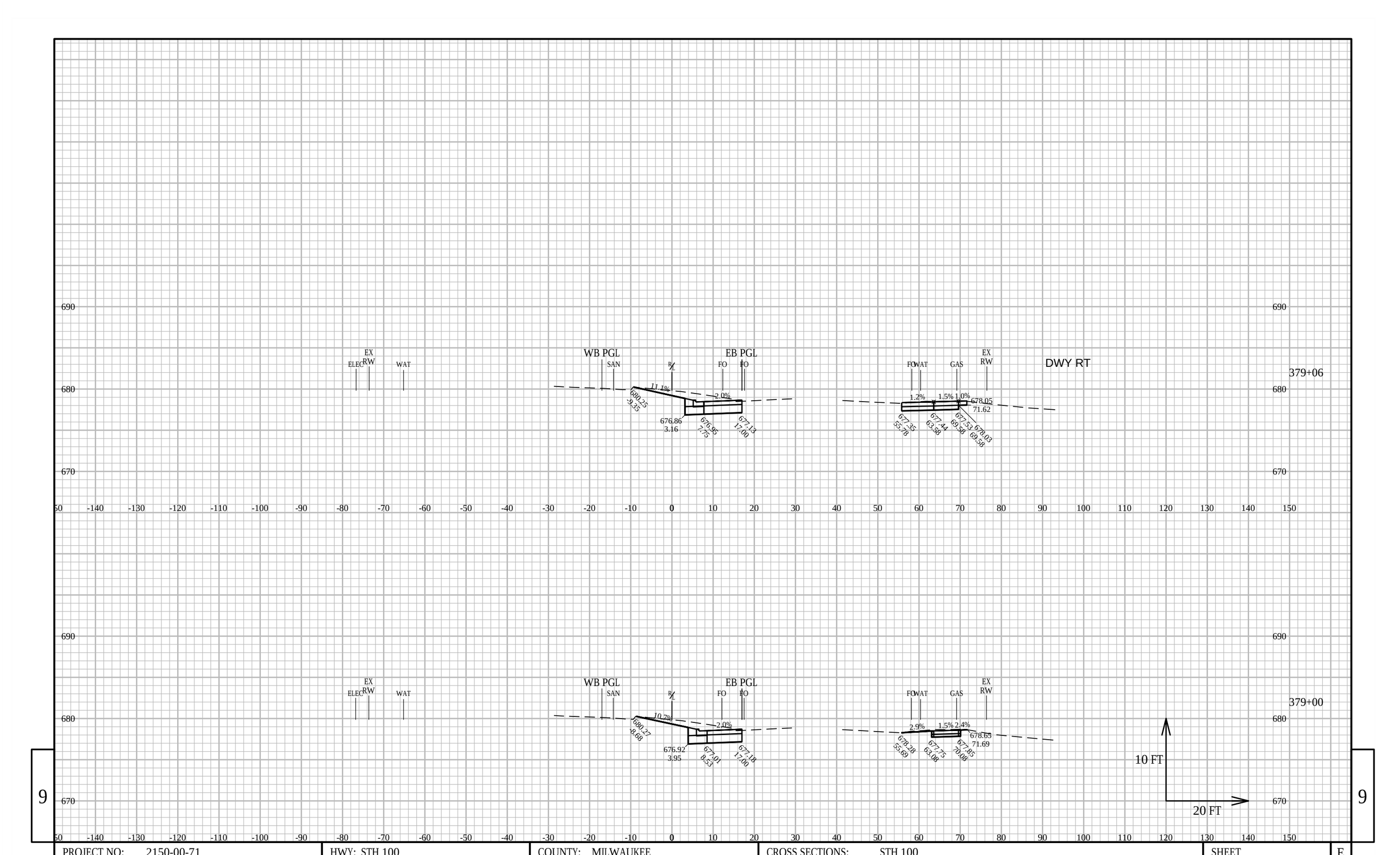
FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs20

PLOT DATE : 10/7/2020 9:12 AM

PLOT BY : BLACKWOOD, JIM

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 659	E

FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs21

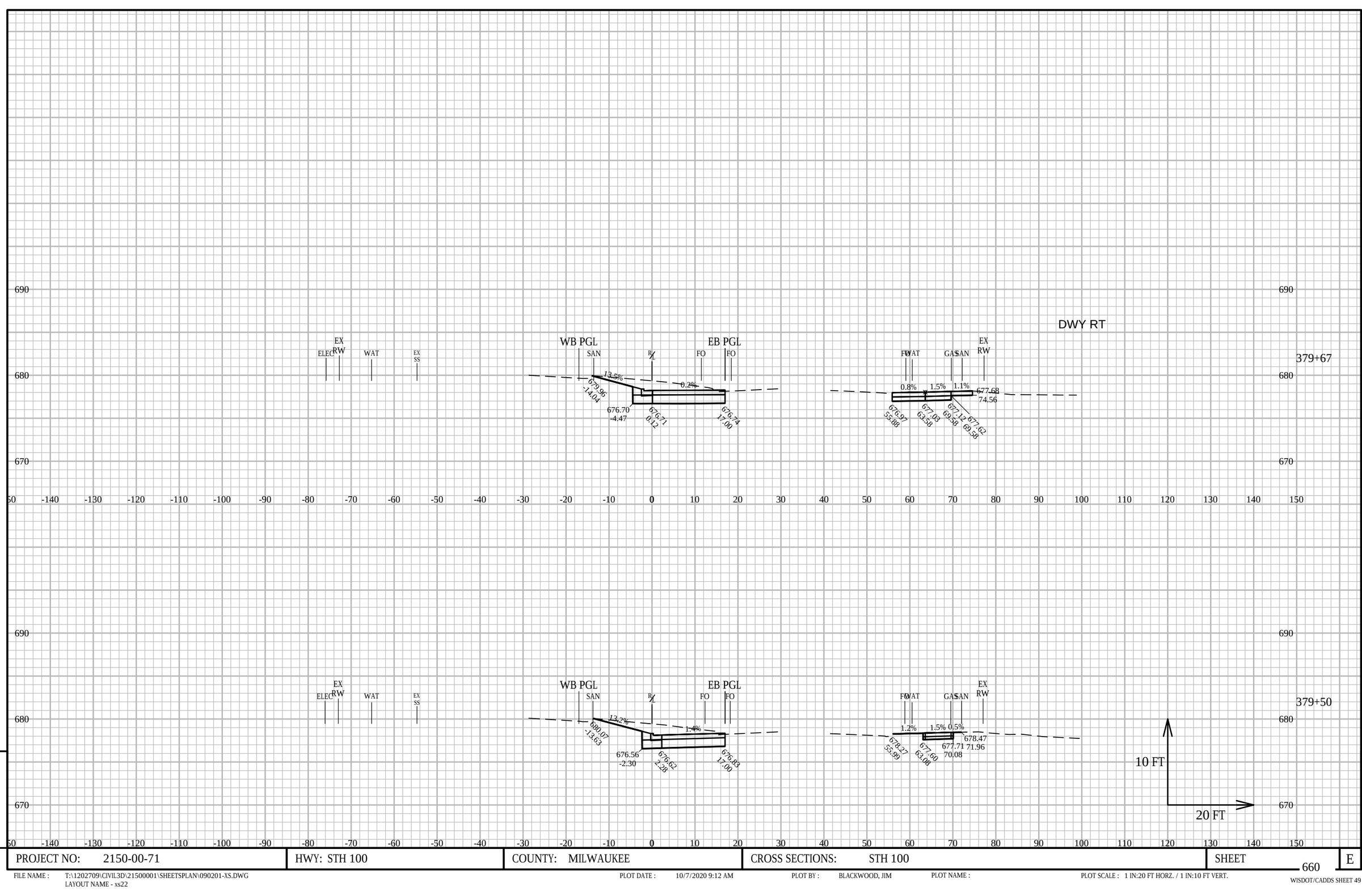
PLOT DATE : 10/7/2020 9:12 AM

PLOT BY : BLACKWOOD, JIM

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

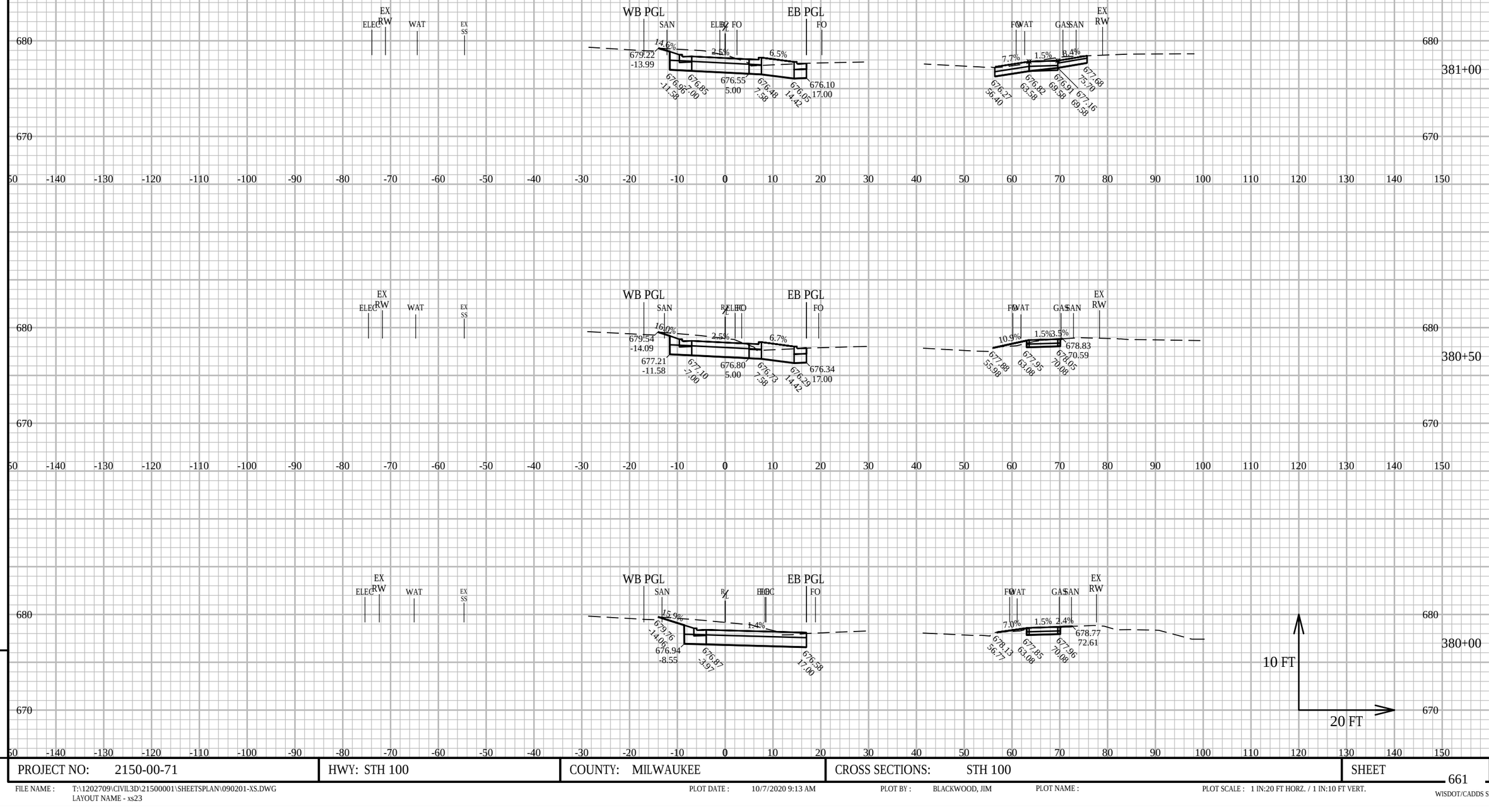
WISDOT/CADDS SHEET 49



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 660	E

FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs22

PLOT DATE : 10/7/2020 9:12 AM PLOT BY : BLACKWOOD, JIM PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 661	E

FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs23

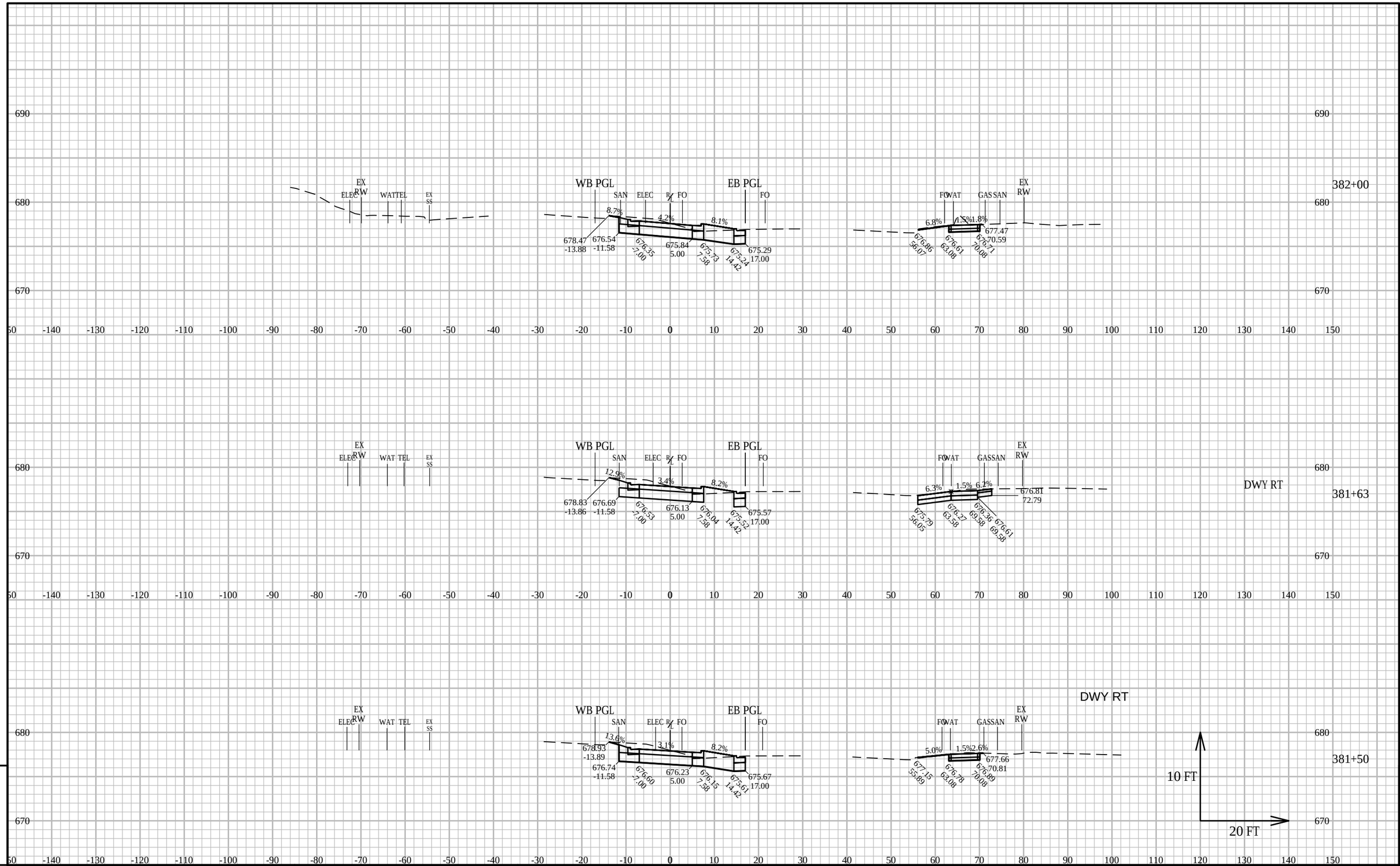
PLOT DATE : 10/7/2020 9:13 AM

PLOT BY : BLACKWOOD, JIM

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 662	E

FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs24

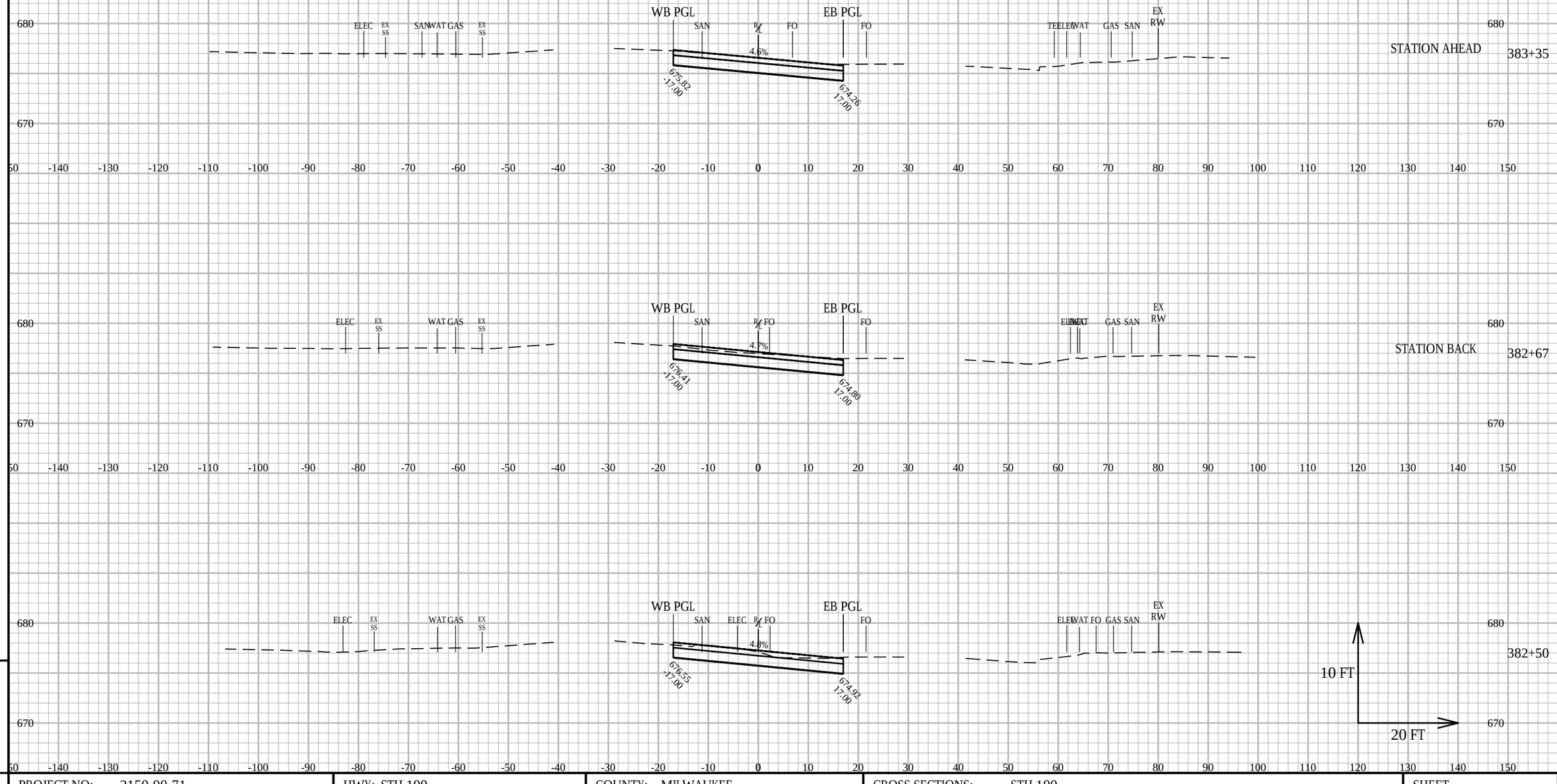
PLOT DATE : 10/7/2020 9:13 AM

PLOT BY : BLACKWOOD, JIM

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 663	E

FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs25

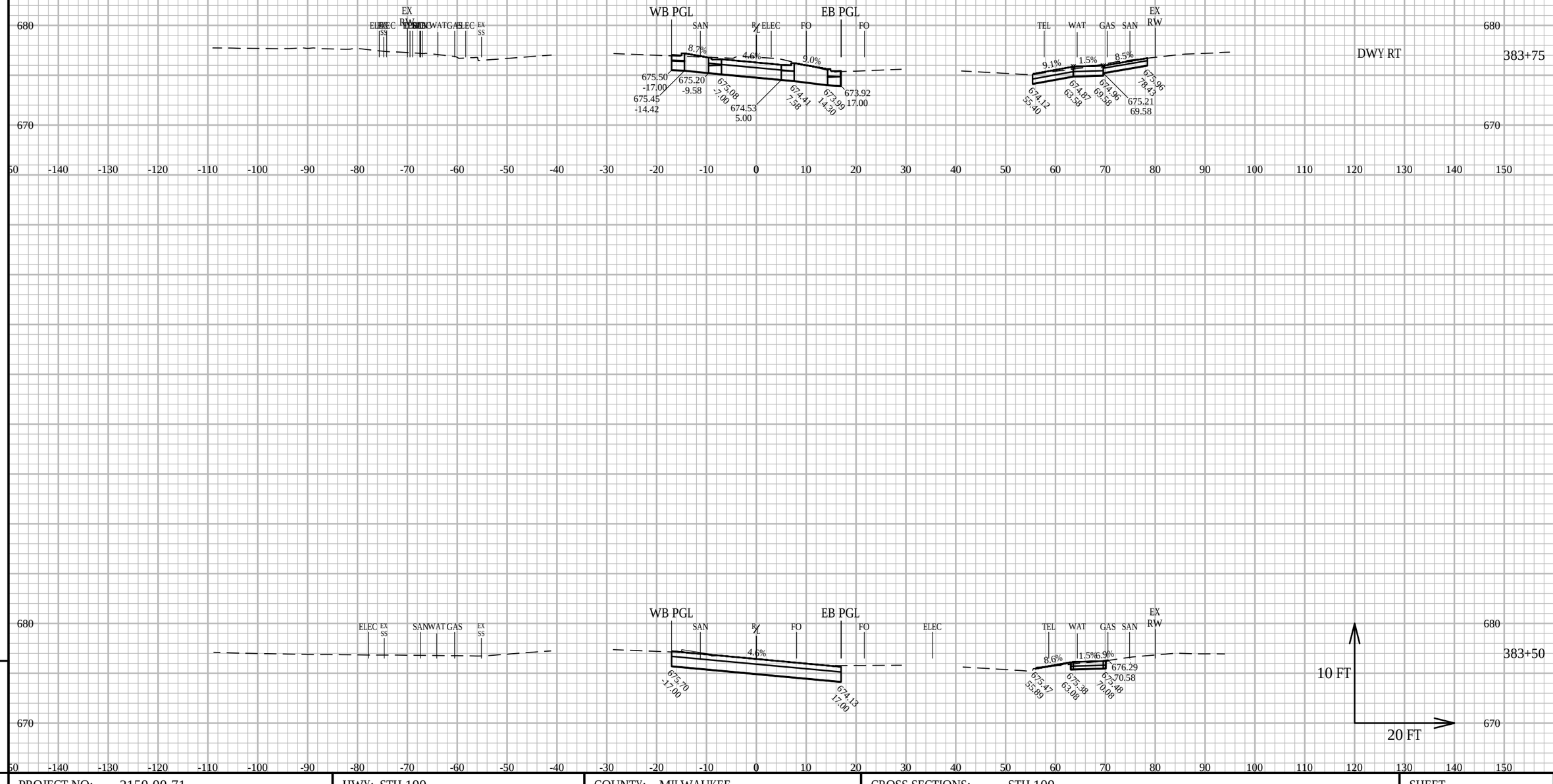
PLOT DATE : 10/7/2020 9:14 AM

PLOT BY : BLACKWOOD, JIM

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 664 E

FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs26

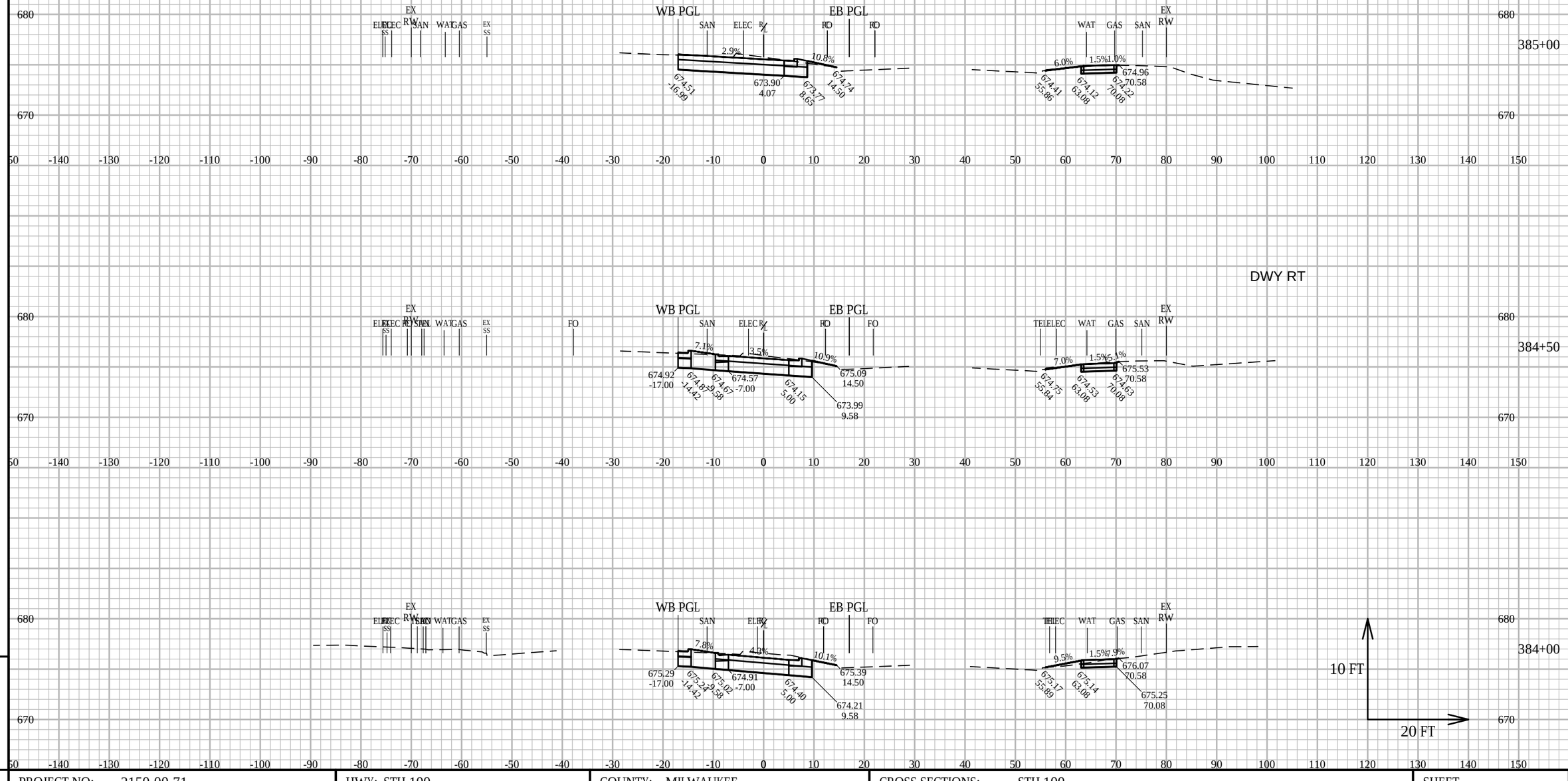
PLOT DATE : 10/7/2020 9:14 AM

PLOT BY : BLACKWOOD, JIM

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 665	E

FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs27

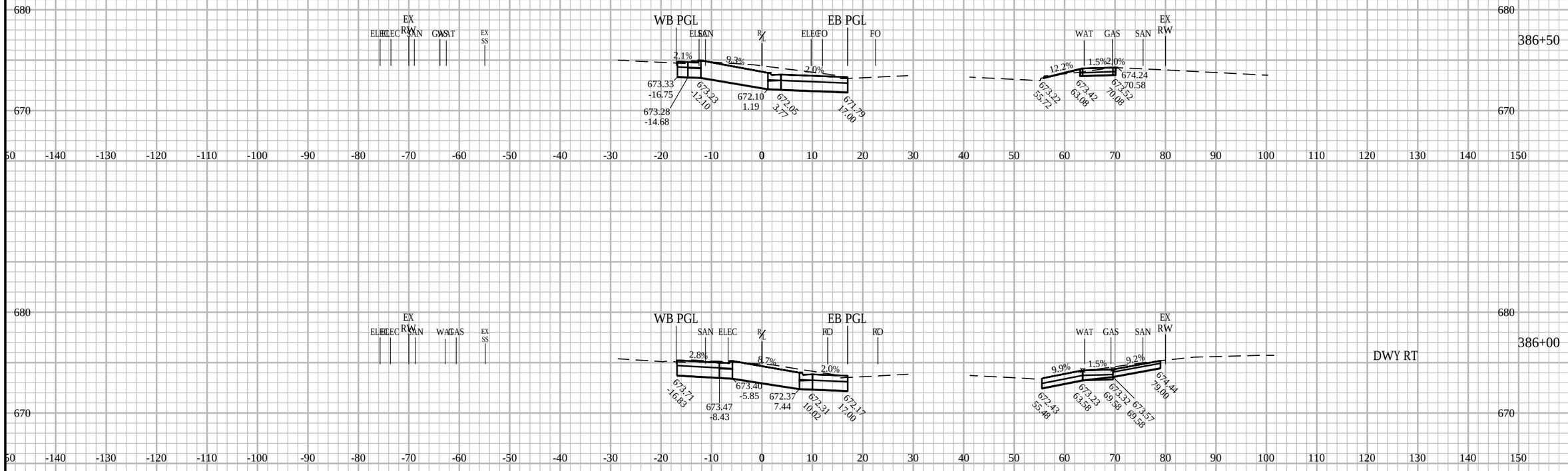
PLOT DATE : 10/7/2020 9:14 AM

PLOT BY : BLACKWOOD, JIM

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

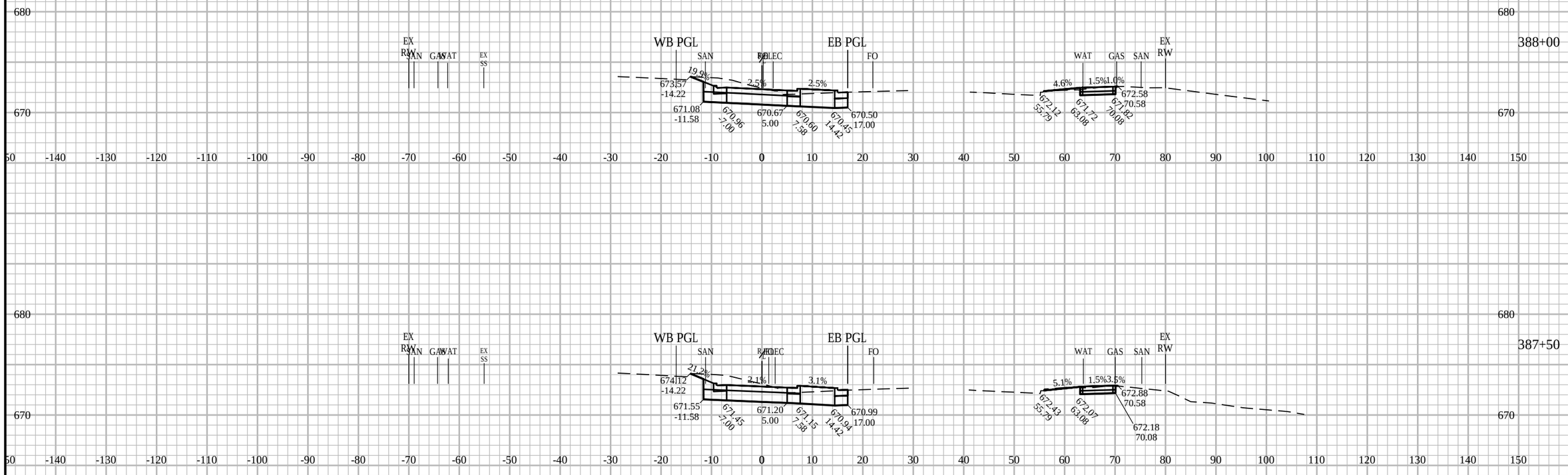


9

9

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 666	E

FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs28
PLOT DATE : 10/7/2020 9:15 AM
PLOT BY : BLACKWOOD, JIM
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

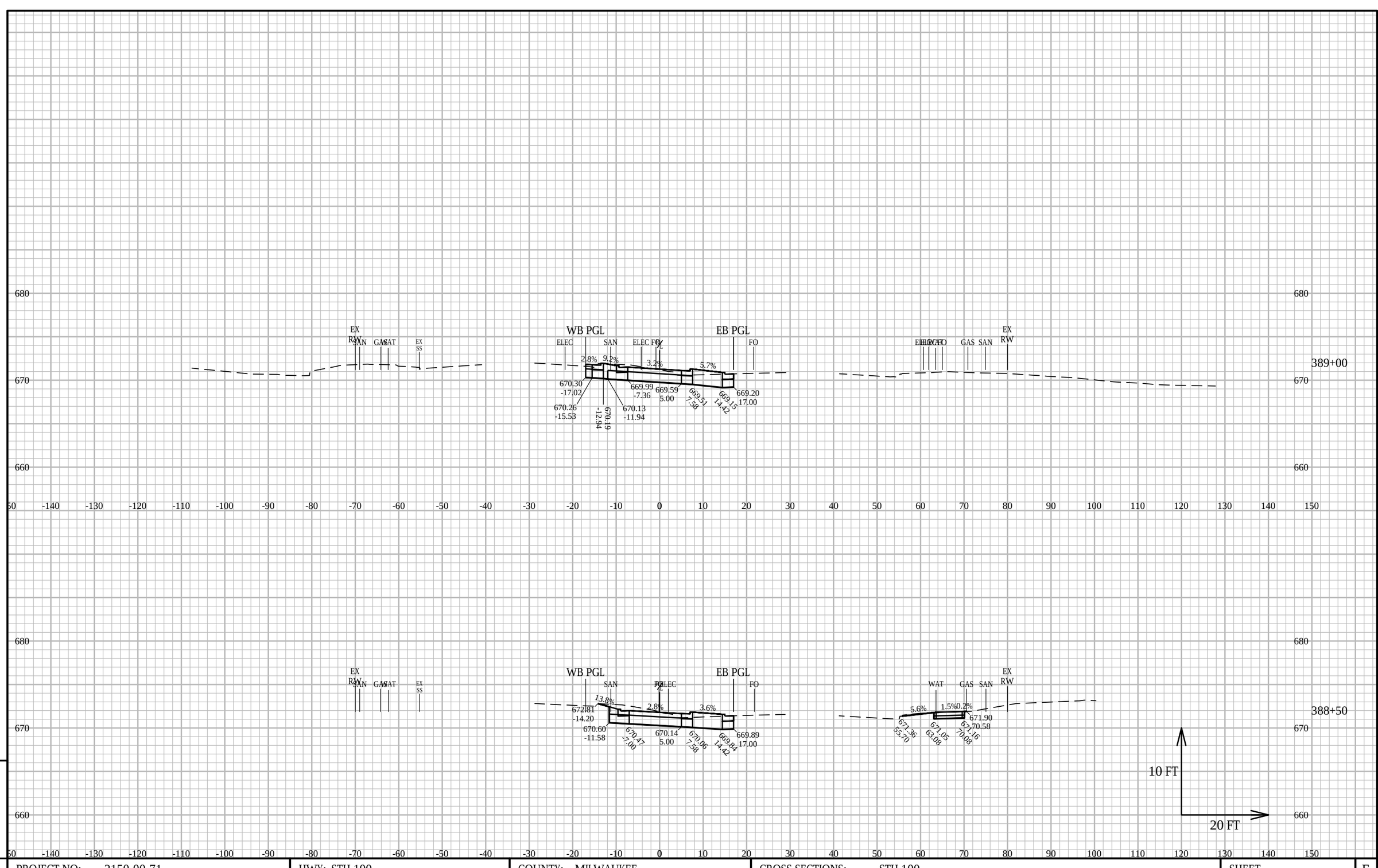


9

9

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 667	E

FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs29
PLOT DATE : 10/7/2020 9:15 AM
PLOT BY : BLACKWOOD, JIM
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 668	E

FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs30

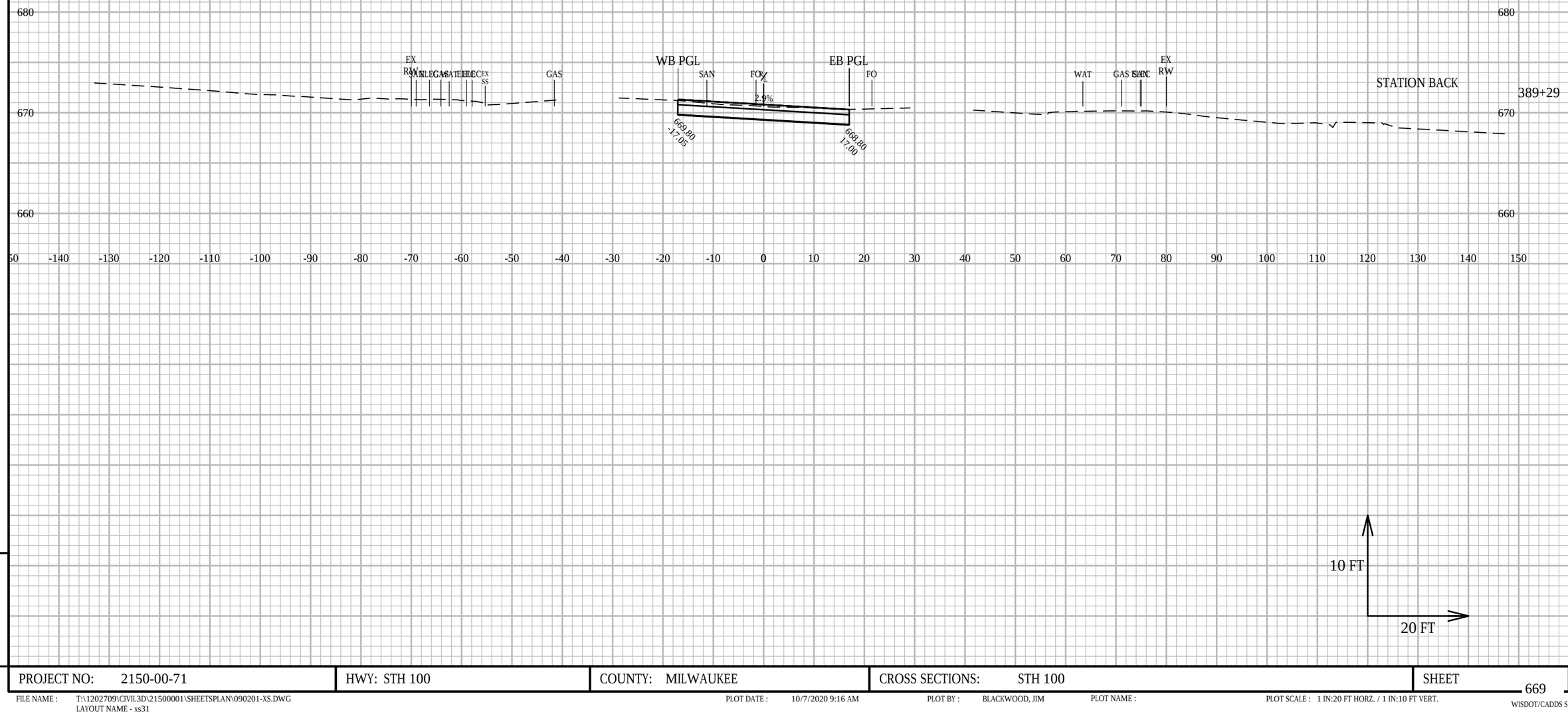
PLOT DATE : 10/7/2020 9:15 AM

PLOT BY : BLACKWOOD, JIM

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 669	E

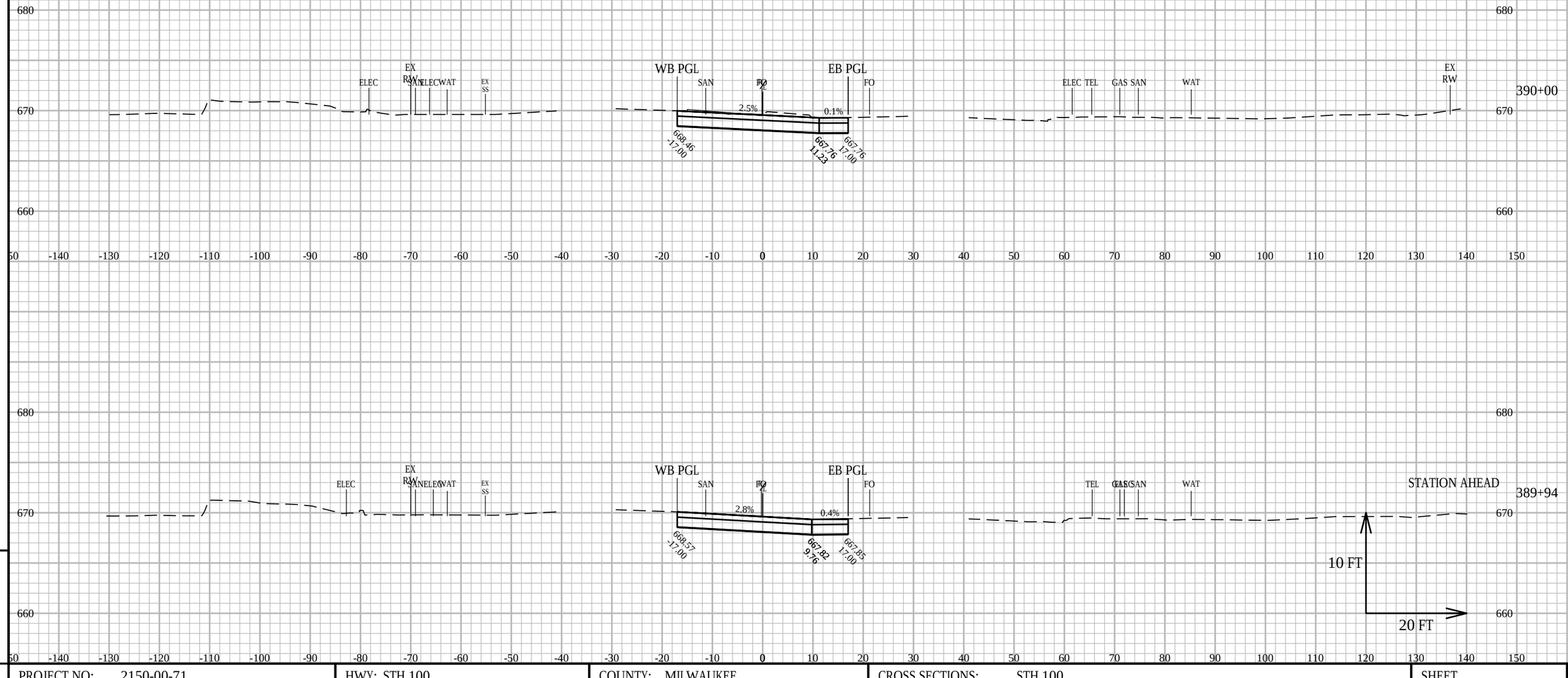
FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs31

PLOT DATE : 10/7/2020 9:16 AM

PLOT BY : BLACKWOOD, JIM

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 670 E

FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs32

PLOT DATE : 10/7/2020 9:16 AM

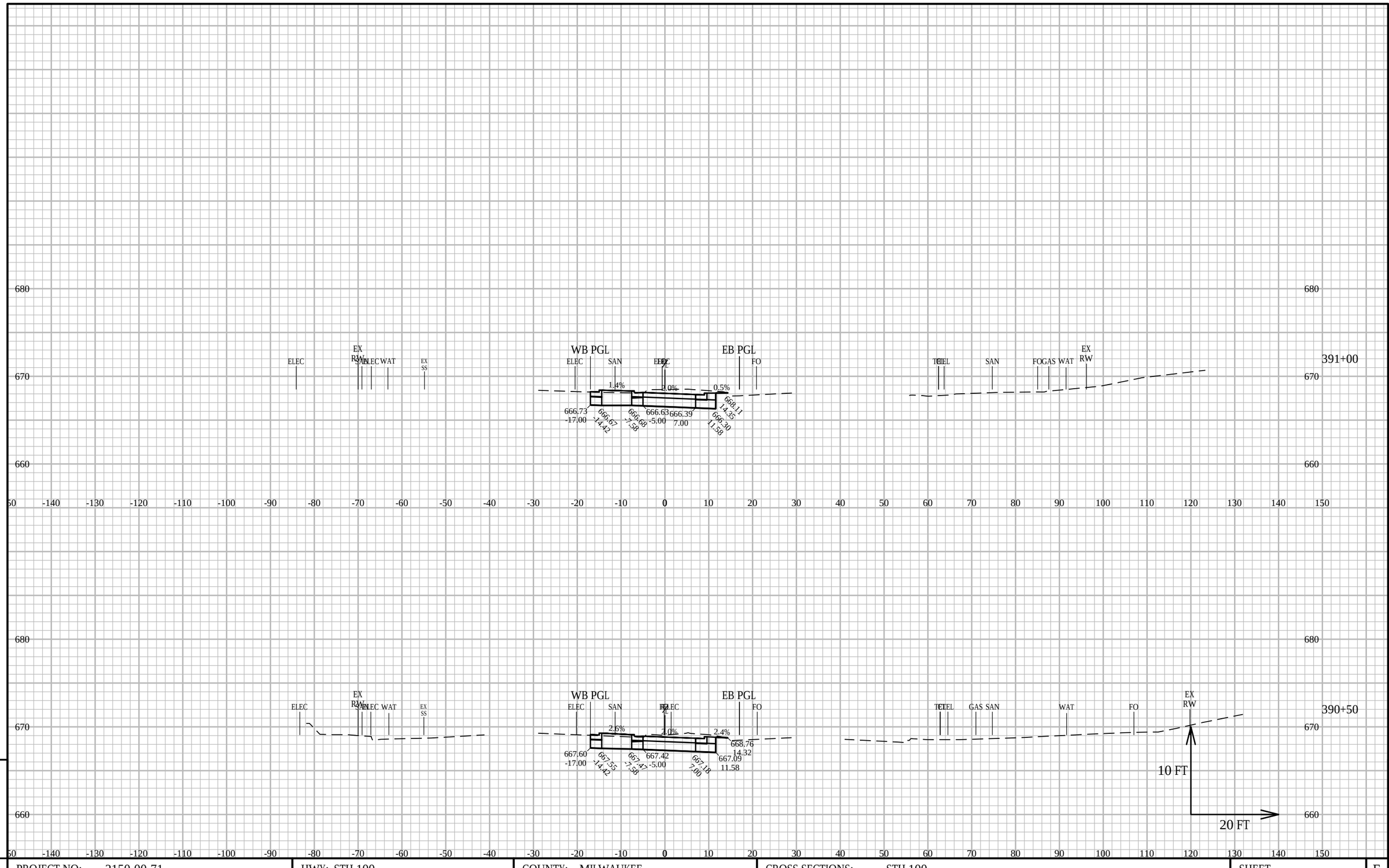
PLOT BY : BLACKWOOD, JIM

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

9

9



9

9

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 671	E

FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs33

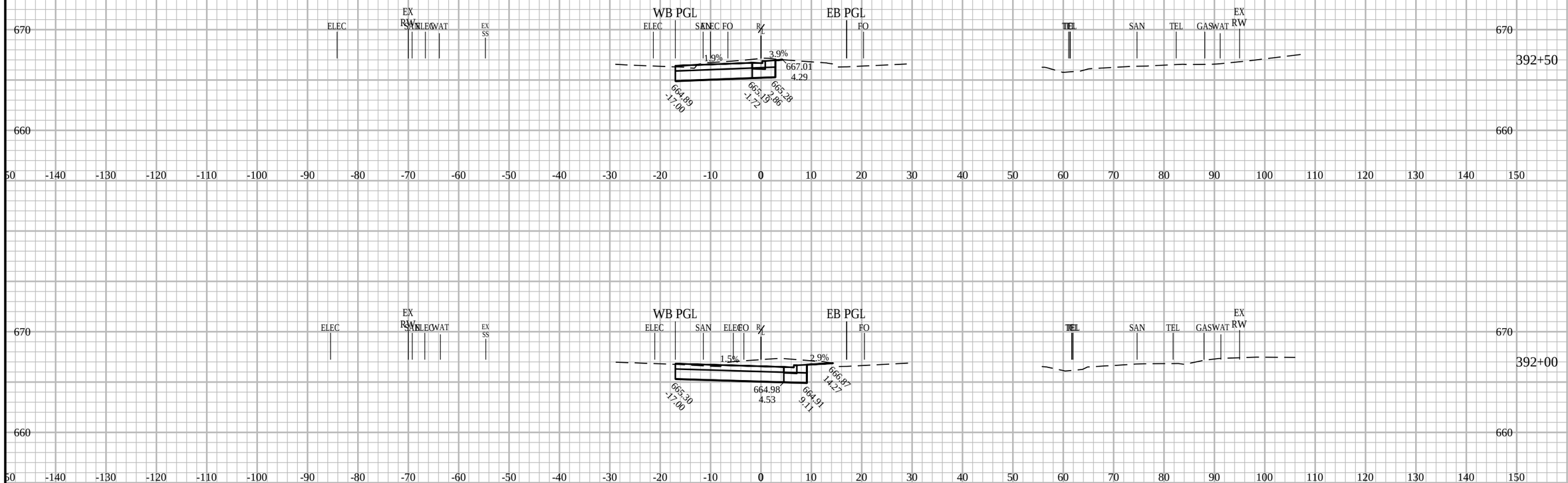
PLOT DATE : 10/7/2020 9:17 AM

PLOT BY : BLACKWOOD, JIM

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 672 E

FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs34

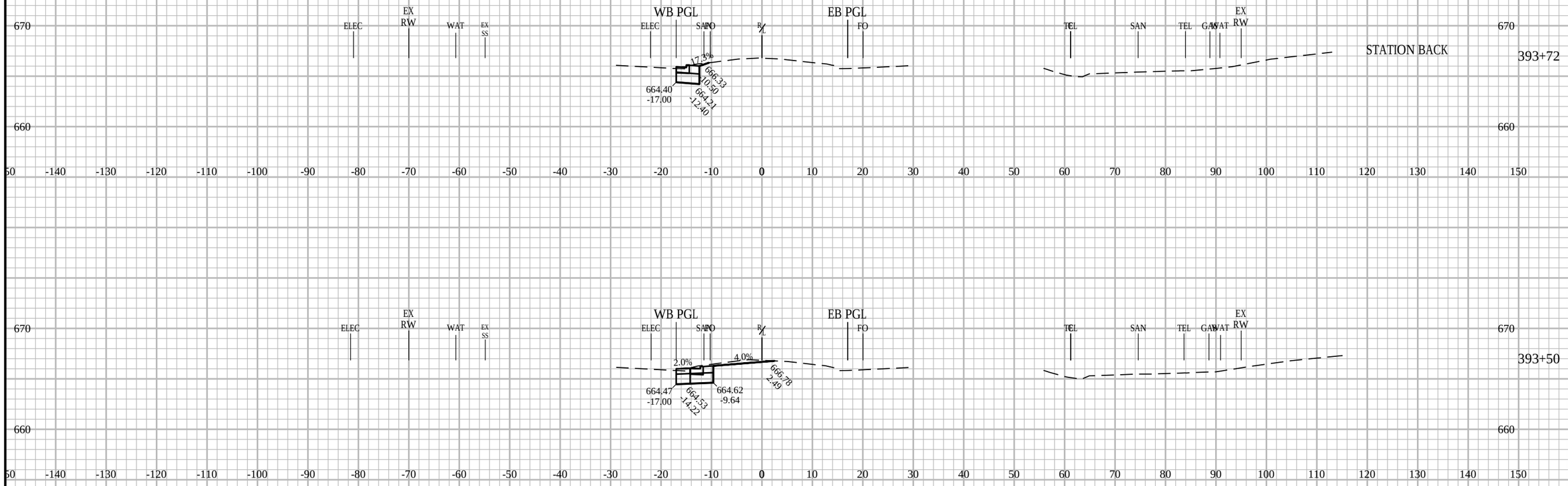
PLOT DATE : 10/7/2020 9:17 AM

PLOT BY : BLACKWOOD, JIM

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

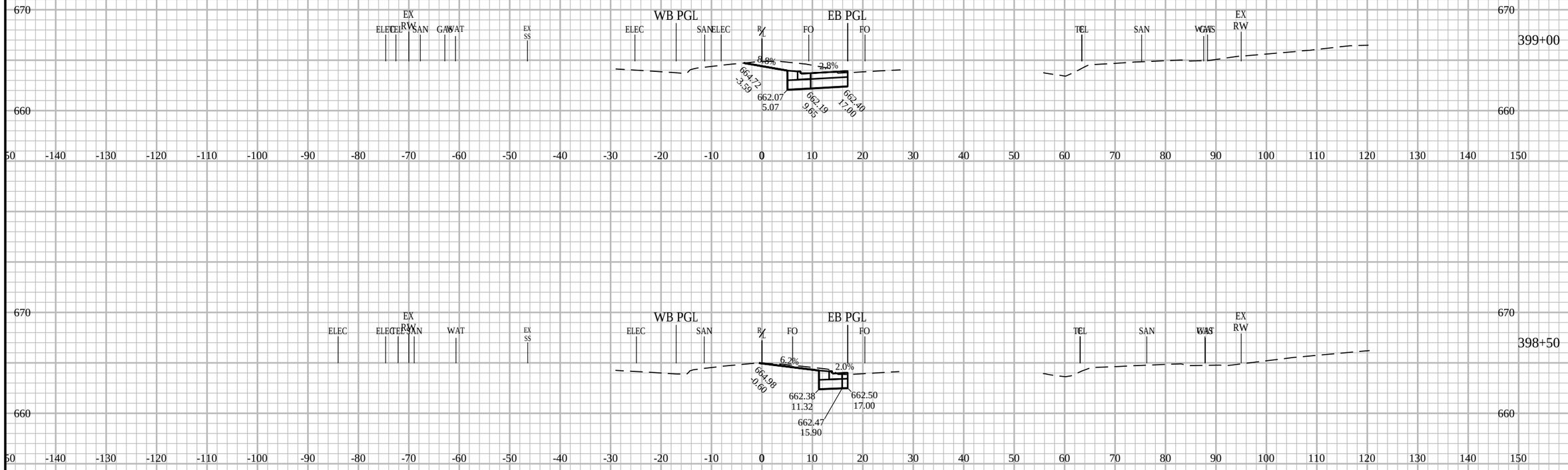


9

9

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 673	E

FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs35
PLOT DATE : 10/7/2020 9:17 AM
PLOT BY : BLACKWOOD, JIM
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 674 E

FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs36

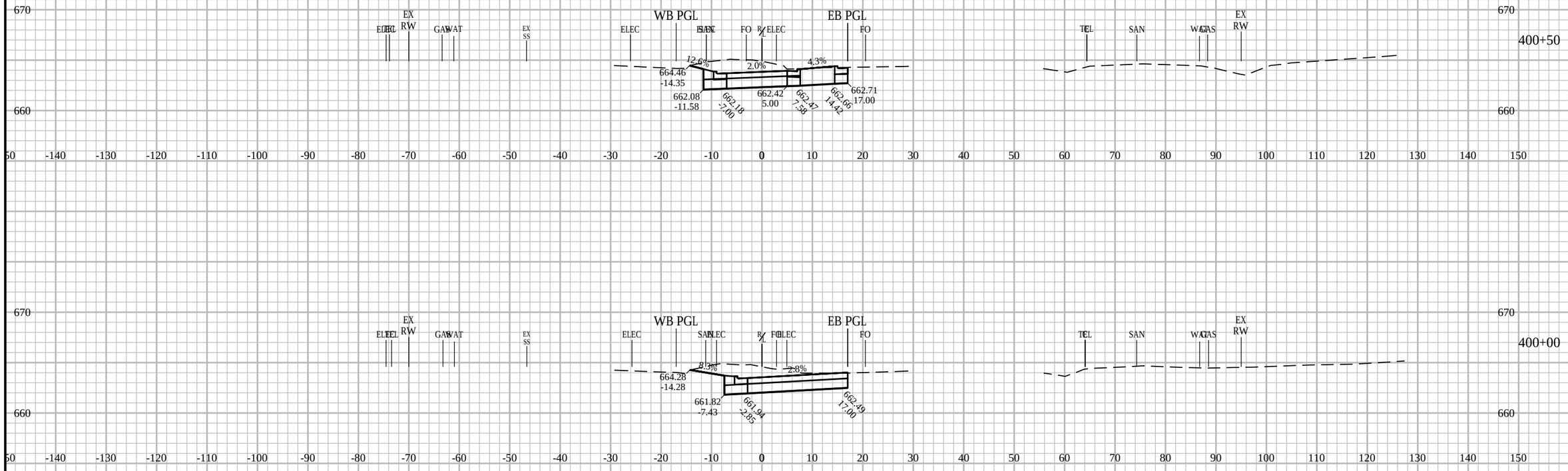
PLOT DATE : 10/7/2020 9:18 AM

PLOT BY : BLACKWOOD, JIM

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49


400+50
400+00
399+50
WB PGL
EB PGL
EX RW
ELEC
TEL
SAN
GAS
WAT
EX SS
FO
12.6%
2.0%
4.3%
664.46
-14.35
662.08
-11.58
662.42
5.00
662.71
17.00
8.3%
2.8%
664.28
-14.28
661.82
-7.43
662.49
17.00
8.2%
1.4%
662.13
-1.18
662.39
17.00
10 FT
20 FT
670
660
-150
-140
-130
-120
-110
-100
-90
-80
-70
-60
-50
-40
-30
-20
-10
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 676	E

FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs38

PLOT DATE : 10/7/2020 9:18 AM

PLOT BY : BLACKWOOD, JIM

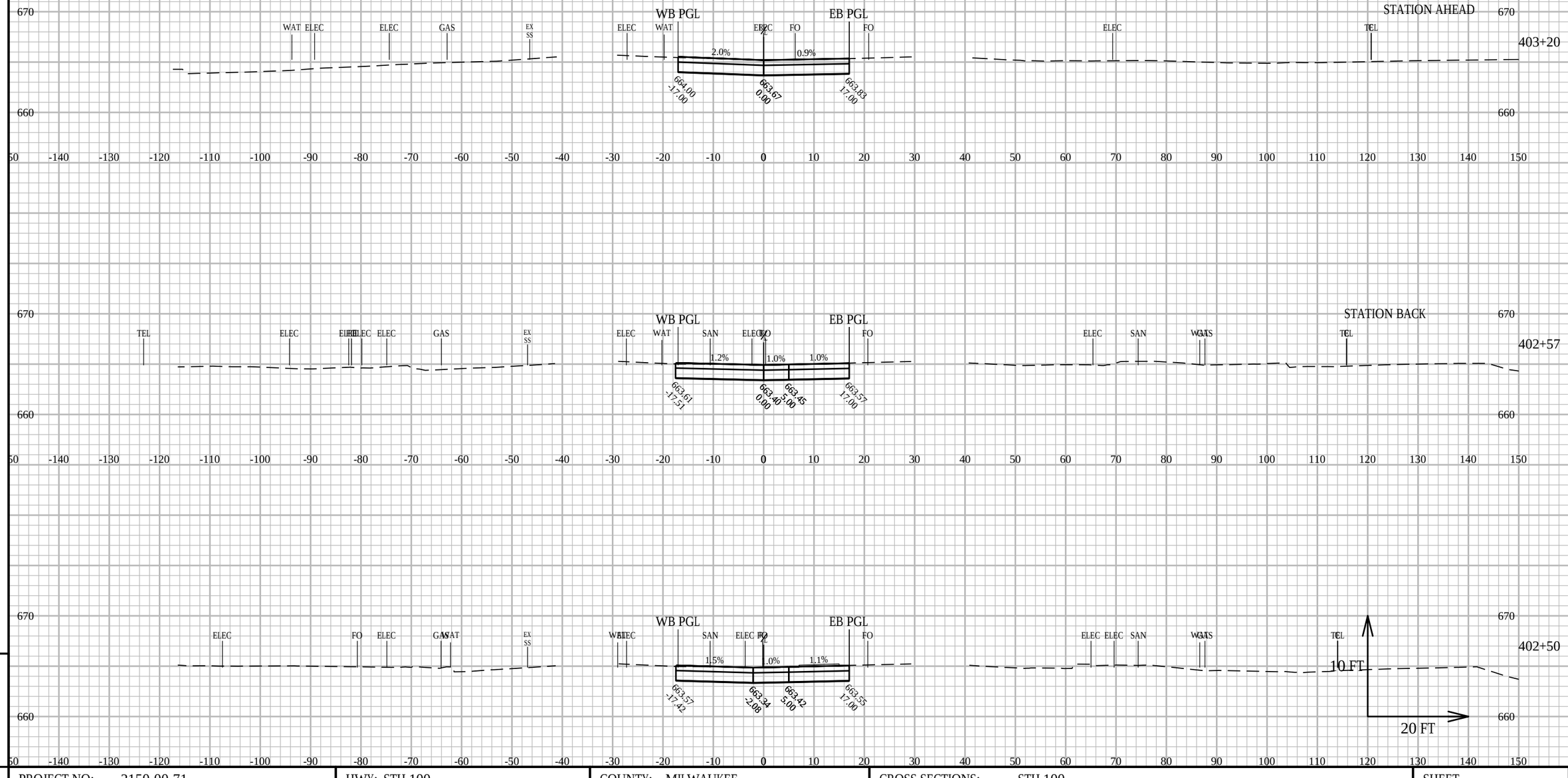
PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

9

9



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 677	E

FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs39

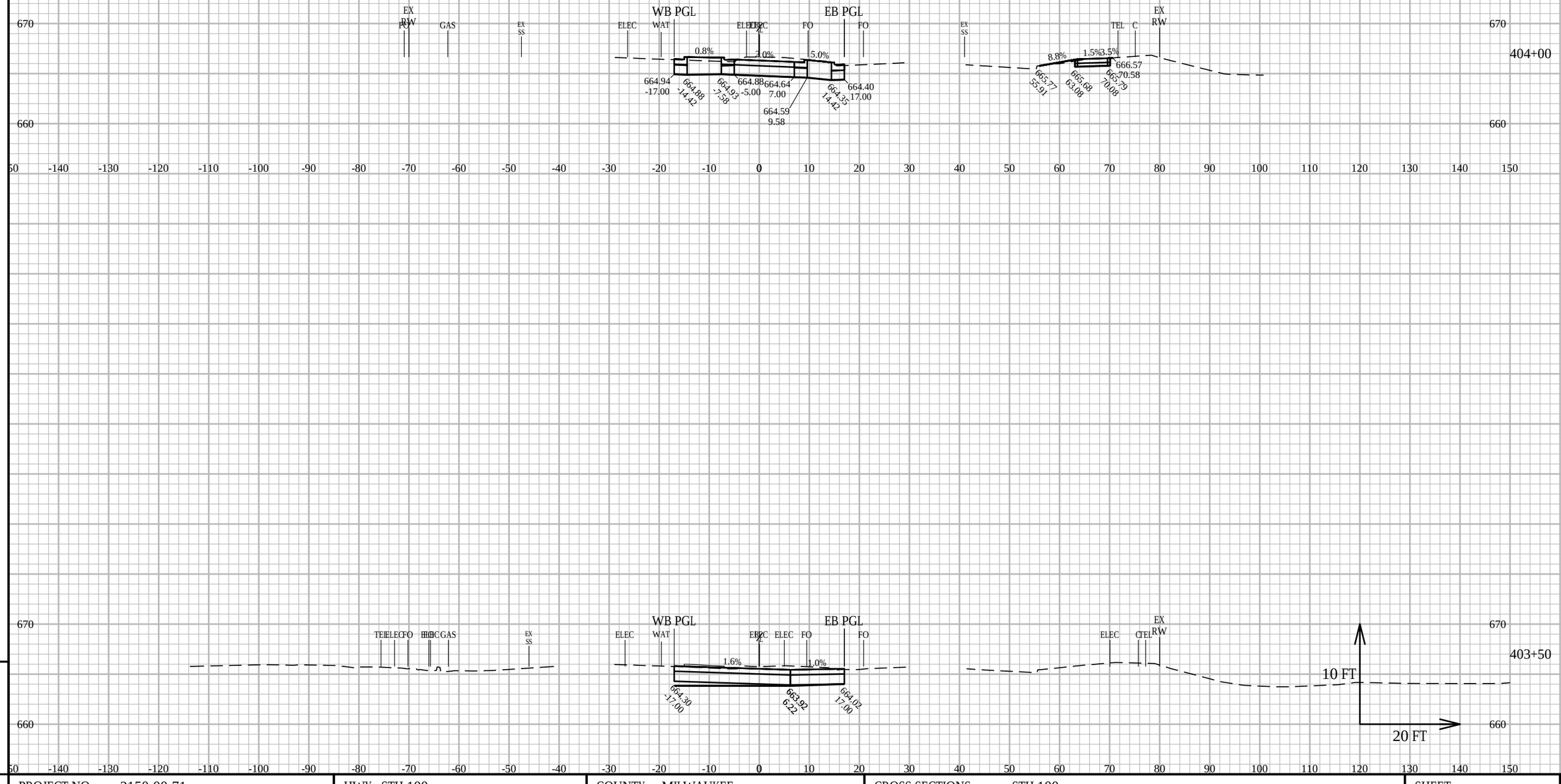
PLOT DATE : 10/7/2020 9:19 AM

PLOT BY : BLACKWOOD, JIM

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 678 E

FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs40

PLOT DATE : 10/7/2020 9:19 AM

PLOT BY : BLACKWOOD, JIM

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 679	E

FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs41

PLOT DATE : 10/7/2020 9:20 AM

PLOT BY : BLACKWOOD, JIM

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 680 E

FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs42

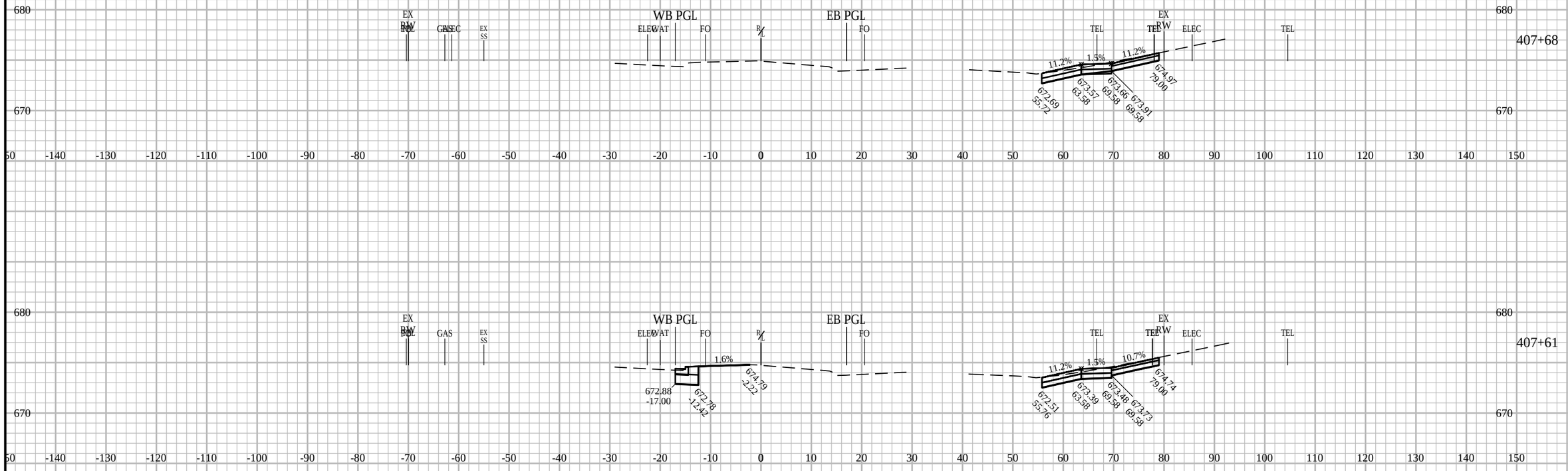
PLOT DATE : 10/7/2020 9:20 AM

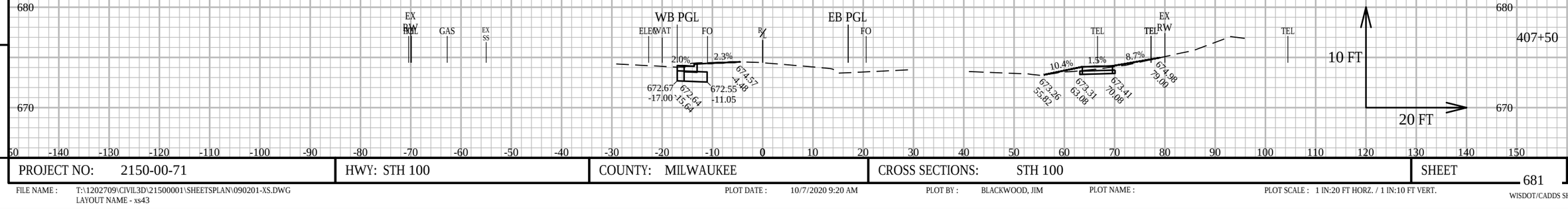
PLOT BY : BLACKWOOD, JIM

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



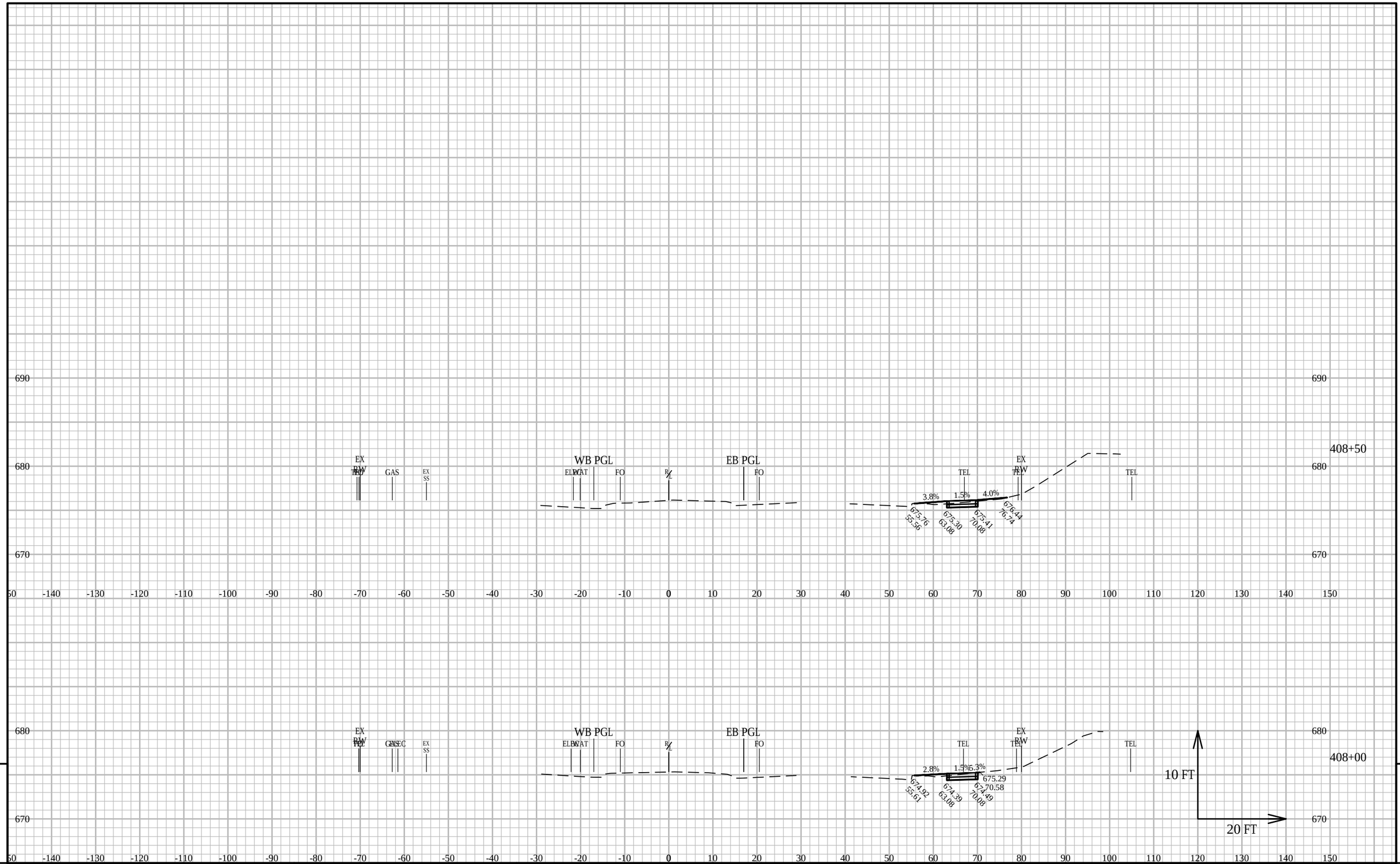


9

9

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 681	E

FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs43
PLOT DATE : 10/7/2020 9:20 AM
PLOT BY : BLACKWOOD, JIM
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 682	E

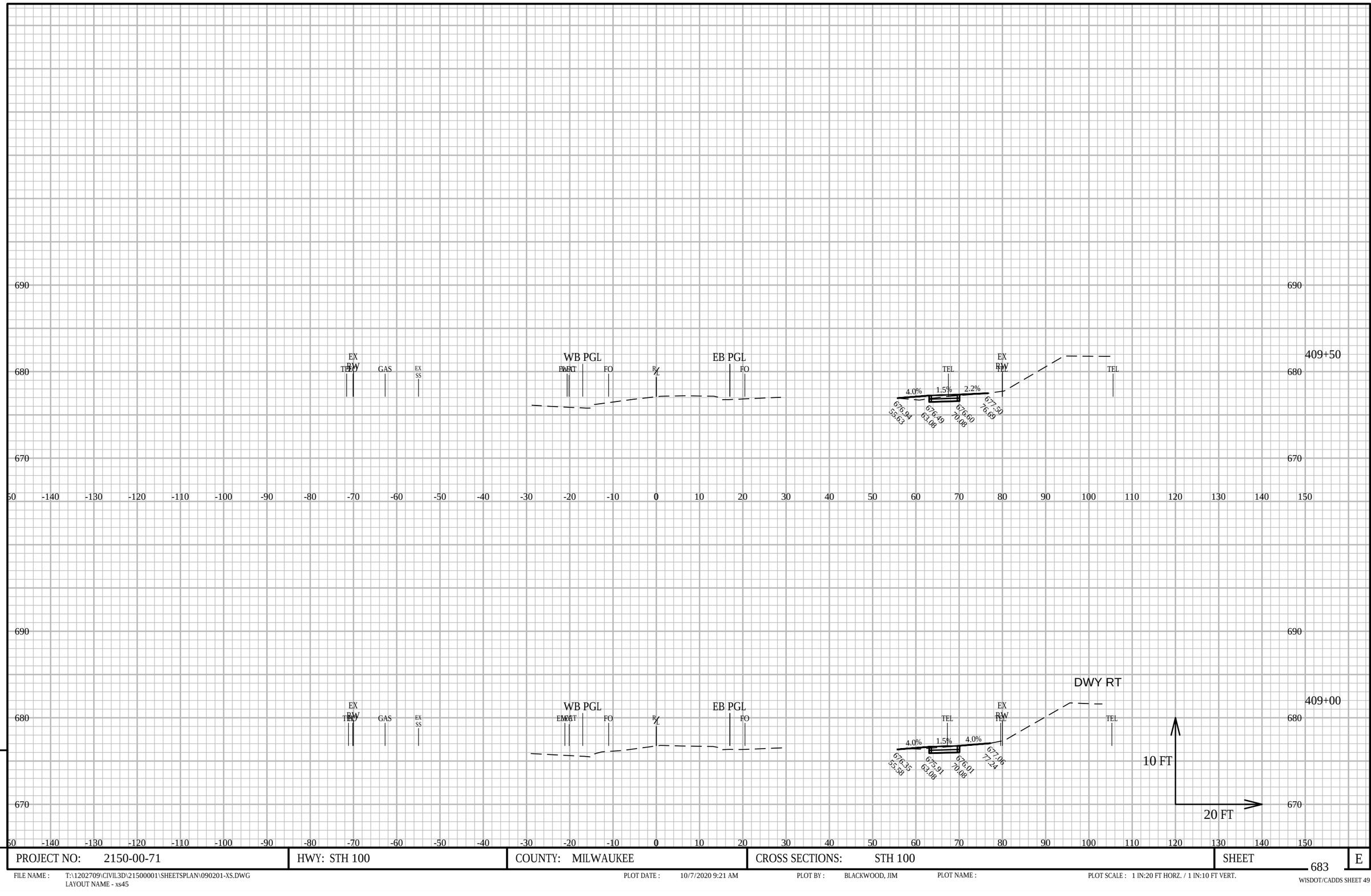
FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs44

PLOT DATE : 10/7/2020 9:21 AM

PLOT BY : BLACKWOOD, JIM

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 683	E

FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs45

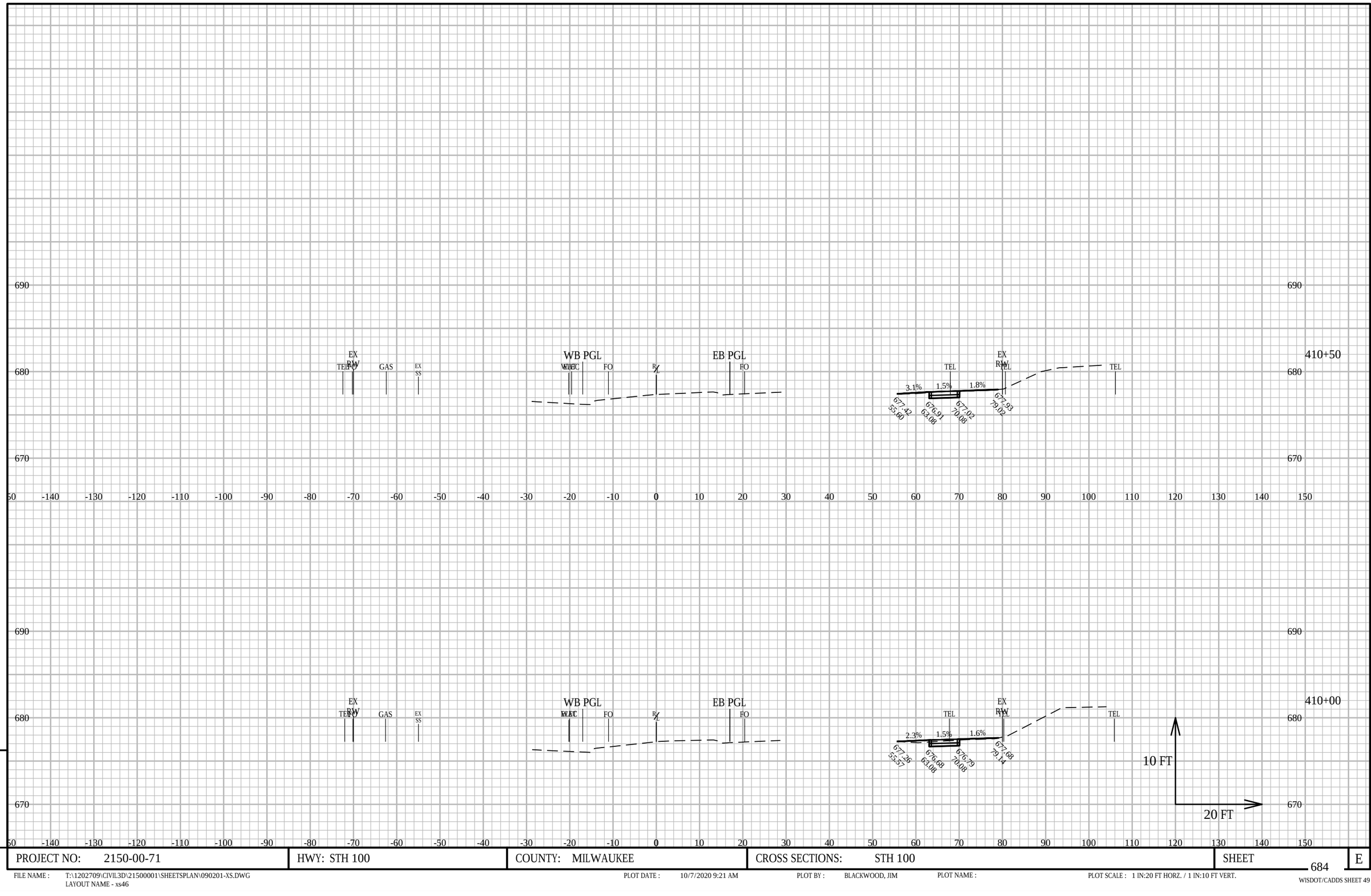
PLOT DATE : 10/7/2020 9:21 AM

PLOT BY : BLACKWOOD, JIM

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 684	E

FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs46

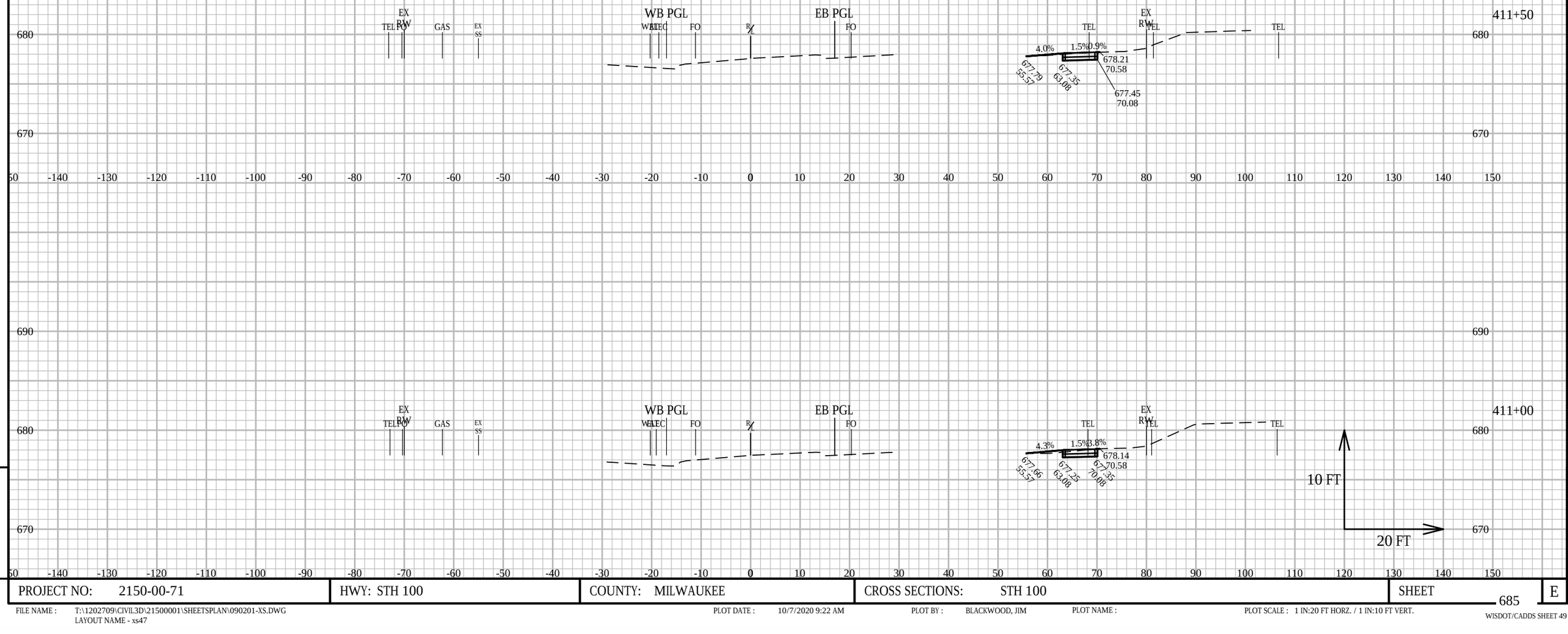
PLOT DATE : 10/7/2020 9:21 AM

PLOT BY : BLACKWOOD, JIM

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 685	E

FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs47

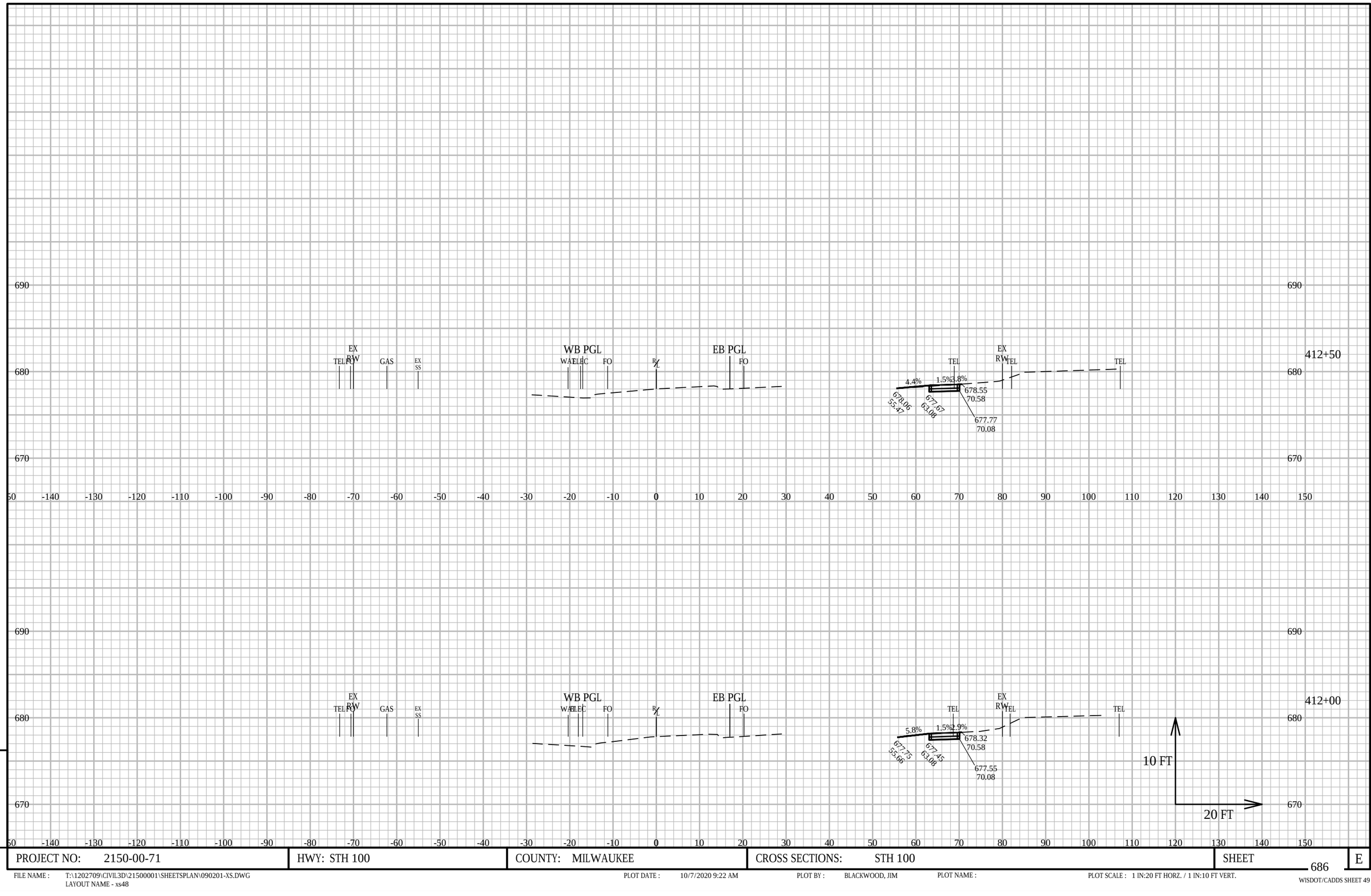
PLOT DATE : 10/7/2020 9:22 AM

PLOT BY : BLACKWOOD, JIM

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 686	E

FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs48

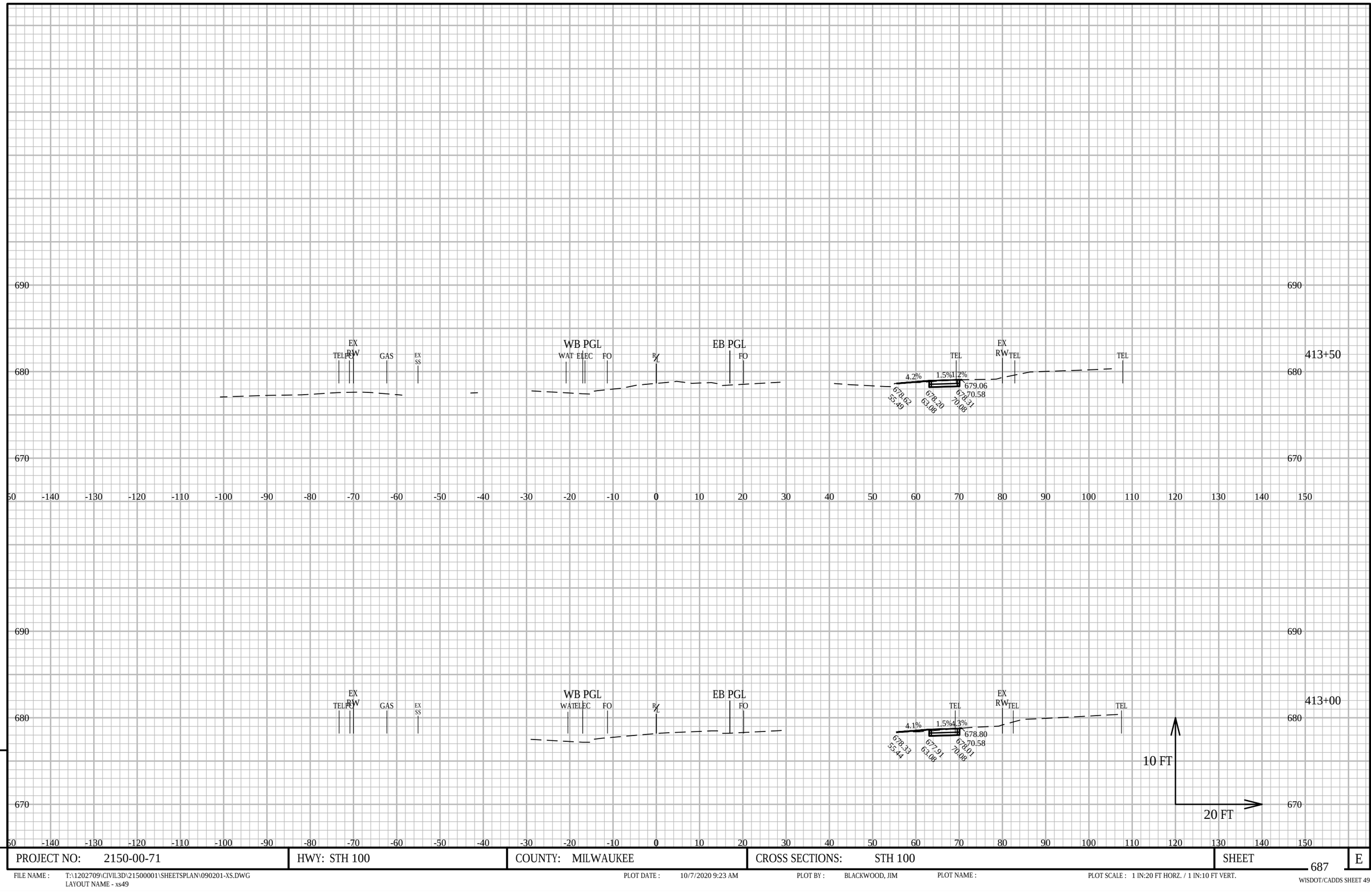
PLOT DATE : 10/7/2020 9:22 AM

PLOT BY : BLACKWOOD, JIM

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 687	E

FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs49

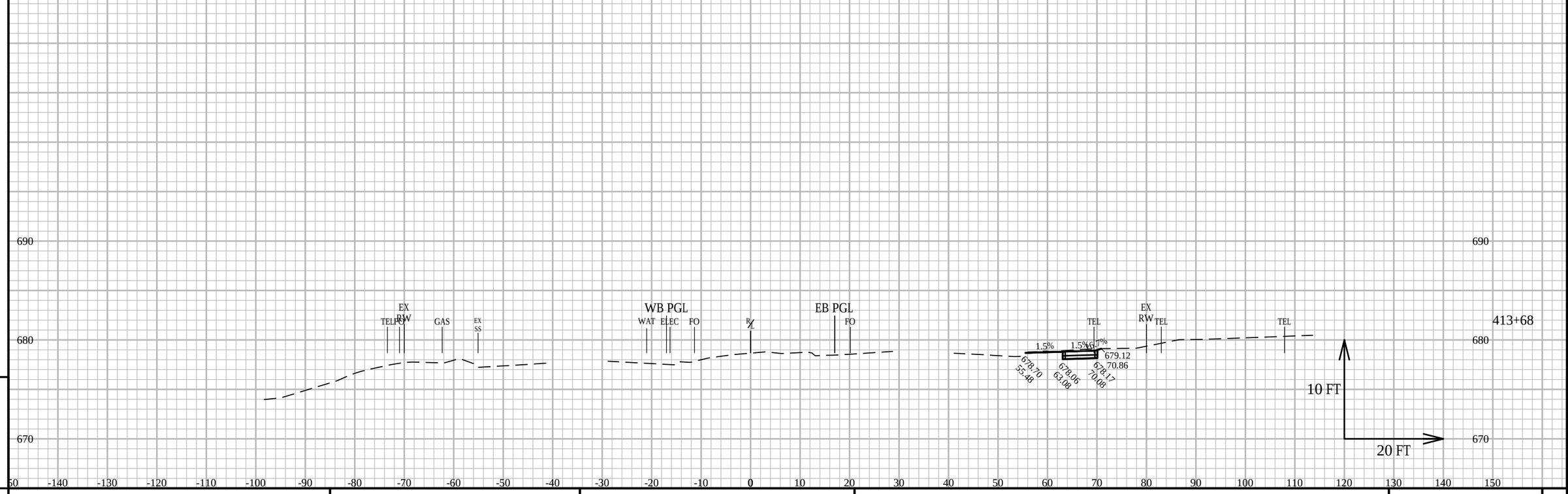
PLOT DATE : 10/7/2020 9:23 AM

PLOT BY : BLACKWOOD, JIM

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 2150-00-71	HWY: STH 100	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 100	SHEET 688	E

FILE NAME : T:\1202709\CIVIL3D\21500001\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - xs50

PLOT DATE : 10/7/2020 9:23 AM

PLOT BY : BLACKWOOD, JIM

PLOT NAME :

PLOT SCALE : 1 IN:20 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